

TOSHIBA



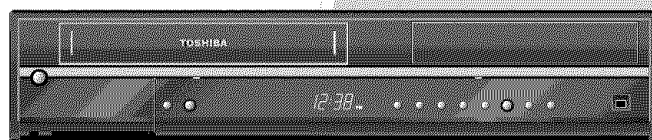
Hi-Fi VCR & DVD VIDEO RECORDER

D-VR600KU

OWNER'S MANUAL

VHS Hi-Fi SQPB

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

CAUTION: THIS DIGITAL VIDEO PLAYER EMPLOYS A LASER SYSTEM.

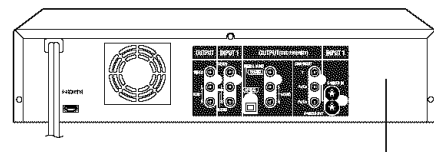
TO ENSURE PROPER USE OF THIS PRODUCT, PLEASE READ THIS USER'S GUIDE CAREFULLY AND RETAIN FOR FUTURE REFERENCE. SHOULD THE UNIT REQUIRE MAINTENANCE, CONTACT AN AUTHORIZED SERVICE LOCATION.

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.

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.

PORTABLE CART WARNING
(symbol provided by RETAC)



S3125A

IMPORTANT SAFEGUARDS

13. LIGHTNING

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

14. POWER LINES

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

15. OVERLOADING

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

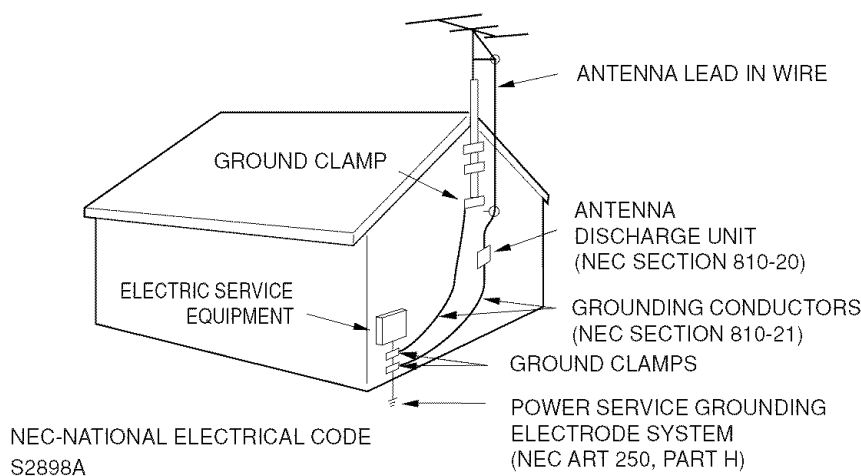
16. OBJECT AND LIQUID ENTRY

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

17. OUTDOOR ANTENNA GROUNDING

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

EXAMPLE OF ANTENNA GROUNDING AS PER THE NATIONAL ELECTRICAL CODE



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

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.

* **DVD** is a trademark of DVD Format/Logo Licensing Corporation.

* DivX, DivX Certified, and associated logos are trademarks of DivX, Inc. and are used under license.

* HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI licensing LLC.

* Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

* "DTS" and "DTS Digital Out" are registered trademarks of DTS, 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.

* Microsoft, 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-Video	 : DVD+RW
 : DVD-RAM	 : DVD+R
 : DVD-RW in VR mode	 : Audio/Video CD and CD-R/CD-RW
 : DVD-RW in Video mode	 : Video tape
 : DVD-R	

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, DVD-R, 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



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

Playback the scene you want to see immediately



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



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

Audio/Video CD/MP3/WMA/JPEG/DivX® playback



Audio/Video CD/MP3/WMA/DivX® files can be played back. Also, you can display JPEG files on the TV screen and enjoy them as a slide show.

Progressive scan



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 high quality picture.

Chase Playback



You can begin 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 begin playback.

Recording function

Timer recording



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)



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

Edit function

Chapter mark



You can add a chapter mark to 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.

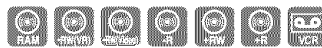
Erasing chapter



You can erase an unnecessary chapter.

Dubbing function

Dubbing a tape onto a disc or a disc onto a tape



With just this one 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.

DV input



You can connect a DV-equipped digital video camera to this unit using a DV cable for input and output of audio, video and control signals.

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.

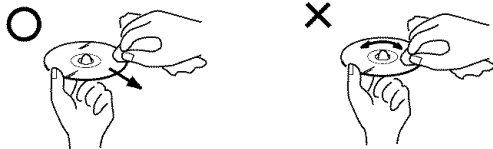
Storing discs

- 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.



Discs which can be played back

In this unit, use only discs that meet the standard, such as those bearing the below 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-RAM*1 Ver.2.0 Ver.2.1	
DVD-RW Ver.1.0, Ver.1.1, Ver.1.2 Ver.1.1 CPRM support Ver.1.2 CPRM support	
DVD-R Ver.2.0, Ver.2.1	
DVD+RW	
DVD+R	
Audio CD*2	
Video CD	
CD-R/CD-RW	

*1 When using cartridge-type DVD-RAM discs, it will be necessary to remove the disc from the cartridge.

*2 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 CDs

Because of problems and errors that can occur during the creation of DVD and CD Software and/or the manufacture of DVD and CD discs, Toshiba cannot assure that the DVD player will successfully play every disc bearing DVD and CD logos. If you happen to experience any difficulty playing a DVD and/or CD disc on this DVD player, please contact Toshiba Customer Service.

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:

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 came 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. SVCD, CDG, Photo-CD, CD-ROM, CD-TEXT, CD-EXTRA, SACD, PD, CDV, DVD-ROM, DVD audio, HD DVD, Blu-ray, etc.

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.

Disc

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-RW Ver.1.0, Ver.1.1, Ver.1.2 Ver.1.1 CPRM support Ver.1.2 CPRM support (1~6x SPEED)	 
DVD-R Ver.2.0, Ver.2.1 (1~16x SPEED)	
DVD+RW	
DVD+R	

DVD-RAM

- When using cartridge-type DVD-RAM discs, it will be necessary to remove the disc from the cartridge.
- 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.
- DVD-RAM discs formatted in UDF2.0 on a PC are not compatible 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 repeatedly record and erase. By erasing unnecessary titles, you increase remaining time effectively.
- 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.

DVD+RW

- You can record on the disc only in the +VR mode.
- Make the discs compatible allows playback on other DVD players.

DVD+R

- You can record on the disc only in the +VR mode.
- You can record until the disc becomes full.

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 can record on DVD-RAM/RW/R discs that are 8 cm in diameter.
- This unit cannot record on CD-RW/R.

Disc

Recording format

DVD-RW disc has two modes for formatting discs for recording: VR mode and Video mode.

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 49).

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 49).
- When you record a TV program of a bilingual broadcast, only one of the audio modes can be recorded. You have to select it.

+VR mode

- This mode used for DVD+R and DVD+RW.
- When you make the disc compatible after recording, the disc recorded with this unit can be played back with other DVD players.
- You cannot record a "Copy Once" program (see page 49.)

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
DVD-RW (Ver.1.0)	VR mode	Playback, recording and editing
DVD-RW (Ver.1.1/1.2)	VR mode	Playback, recording and editing
	Video mode	Playback and recording Editing (with limitation)
DVD-R (Ver.2.0/2.1)	Video mode	Playback and recording Editing (with limitation)
DVD+RW DVD+R	+VR mode	Playback and recording Editing (with limitation)

Title/Chapter/Track

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



NOTES:

The title, chapter and track are numbered, but some discs may not record the numbers.

On Video CDs

This unit 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 unit in the same way as an audio CD.

• Video CD equipped with PBC function (Version 2.0)

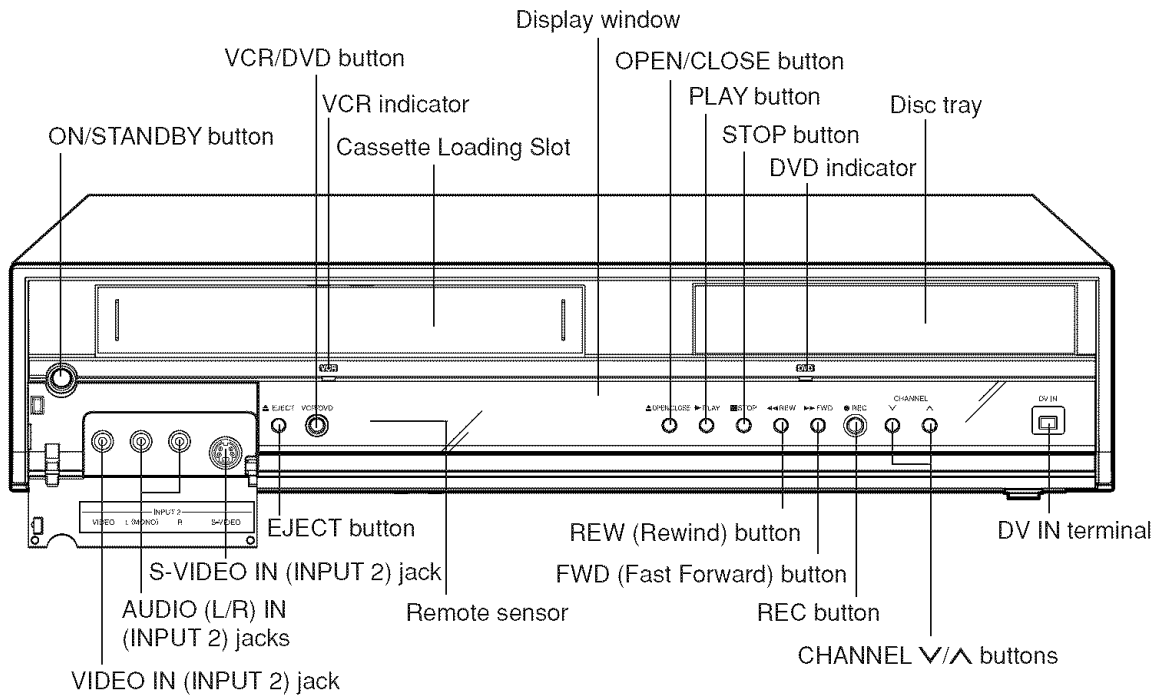
In addition to operation of a Video CD not equipped with the PBC function, you can enjoy playback of interactive software with search function by using the menu displayed on the TV screen (Menu Playback). Some of the functions described in this owner's manual may not work with some discs.

- Toshiba is not liable for any damage or loss caused directly or indirectly by the malfunction of this unit, 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 unit 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 unit.
- 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 unit.
- Discs recorded in this unit may not operate as expected on other DVD players, recorders or personal computer drives.

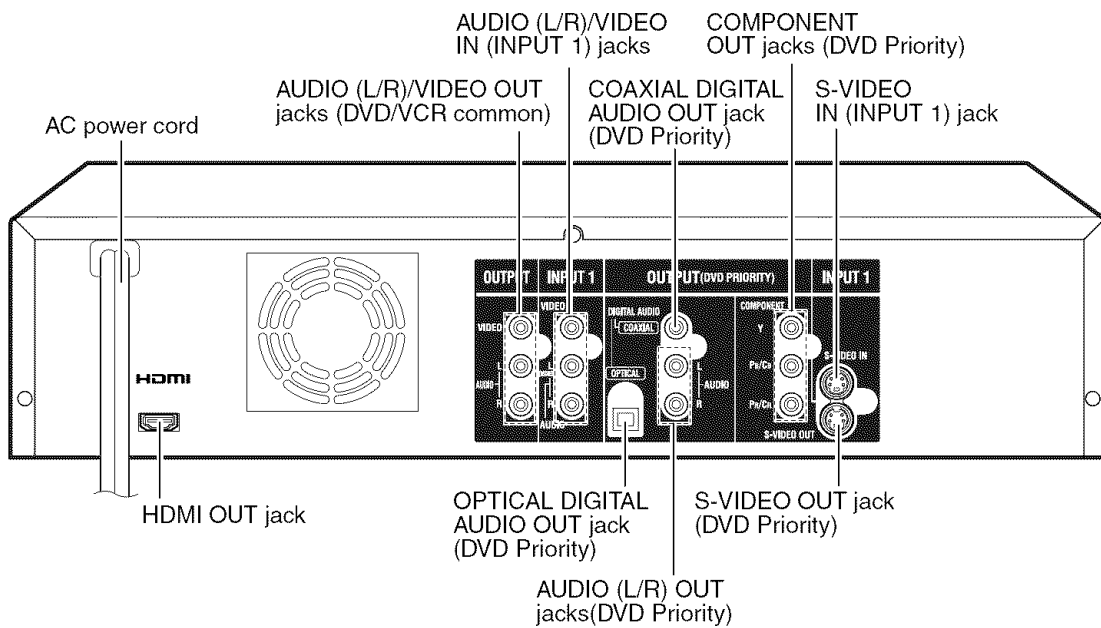
Parts and functions

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.

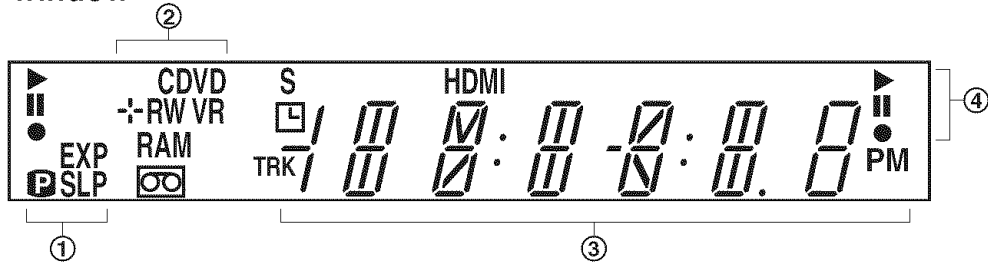


Rear



Parts and functions

Display window



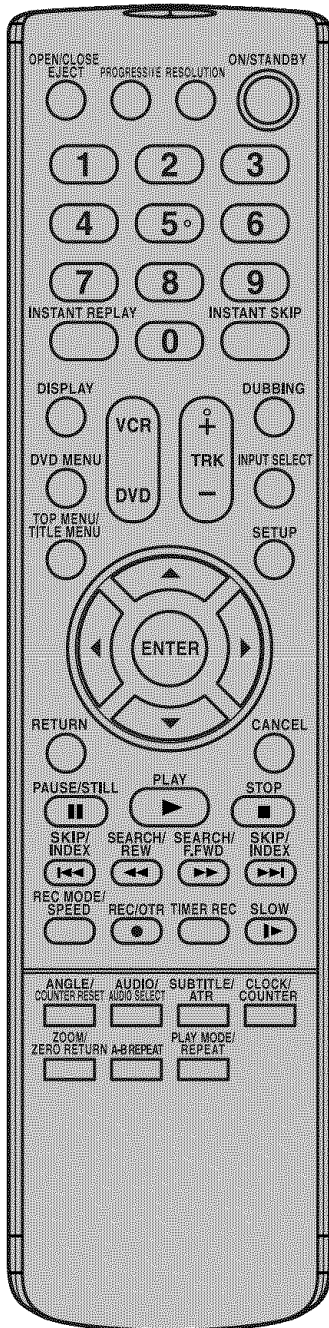
No.	Display	Description
①		Lights during video tape playback.
		Video tape is temporarily stopped.
		Lights during video tape recording.
		Progressive scanning mode.
	XP/SP/LP/SLP	4 DVD recording modes. XP, SP, LP or SLP can be selected in turn by pressing the REC MODE/SPEED repeatedly.
	SP/SLP	2 VCR 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.
	CD-R	Appears when a CD-R is inserted.
	CD-RW	Appears when a CD-RW 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.
	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		Timer recording display.
	10:00	Clock display (Colon [:] flashes).
	01:00:00	Counter display in hour/minute/second.
	HDMI	Appears when HDMI output is active.
	TRK 002	Track number display for CD.
	PM	Display for afternoon (out in the morning).
	L1/L1(S)/L2/L2(S)/dv	The external input channel (L1, L1(S), L2, L2(S) or DV) display.
	Err	Error display.
	④	
		DVD or CD is temporarily stopped.
		Lights during DVD recording.

NOTES:

- Some discs may not playback correctly, or chapter number, playback time, etc may not be displayed.
- You may adjust the brightness of the display window. Press **CLOCK/COUNTER** during power off (stand-by mode). The brightness of the display is changed as follows whenever the button is pressed.
stand-by : dark ↔ disappear
(power-on : bright ↔ dark)

Parts and functions

Remote control

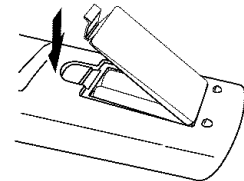
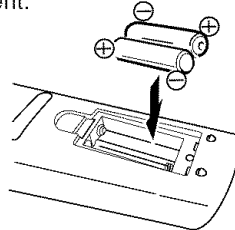
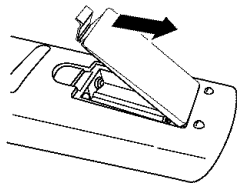


		Page
OPEN/CLOSE	Opens or Closes the tray.	29
EJECT	Ejects the cassette tape.	44
PROGRESSIVE	Activates the progressive scanning mode.	17
RESOLUTION	Changes the HDMI output resolution.	18
ON/STANDBY	Turns power on/off.	15
0-9	Setting input	33, 64
	Entering a password	22
INSTANT REPLAY	Repeats playback between the section played 10 seconds before and present section.	34
INSTANT SKIP	Skips commercial breaks.	33, 46
DISPLAY	Displays VCR or DVD operation status.	31, 47
VCR	Switches to operation between VCR and DVD.	29, 45, 67
DVD		
TRK +/-	Manual tracking in the playback mode for VCR	46
DUBBING	Copies VCR to DVD or DVD to VCR.	66, 67
DVD MENU	Displays the menu of the DVD disc.	35
INPUT SELECT	Switches the connected TV to external inputs.	68
TOP MENU/TITLE MENU	Selects titles of a DVD disc.	31, 35, 38, 57
SETUP	Display or erase the setup menu	20, 52
▲ / ▼ / ◀ / ▶	Cursor buttons	20, 29
ENTER	Option selection in the menu	20, 29
RETURN	Return to the previous menu screen	20, 22
CANCEL	Cancels input data in the setting mode.	22
PAUSE/STILL	Still picture/Recording pause on/off	32, 46
PLAY	Playback	29, 45
STOP	Stop	29, 45, 50
SKIP ◀◀ / ▶▶	Skips chapters in the forward or reverse direction.	32
INDEX ◀◀ / ▶▶	Searches for the INDEX mark of a tape.	47
SEARCH ◀◀ / REW	Rewind/Review playback	32, 45, 46
SEARCH ▶▶ / F.FWD	Fast Forward/Forward search playback	32, 45, 46
REC MODE/SPEED	Selects the recording mode.	50, 51
REC/OTR	Recording and One touch Timer Recording	50, 51, 69
TIMER REC	Sets the unit to start recording at a preset time.	53
SLOW	Slow motion playback	32, 46
ANGLE	Changes playback angle.	36
COUNTER RESET	Resets the counter to 00:00:00.	47
AUDIO	Changes the language of the DVD.	37
AUDIO SELECT	Switches sound between mono and stereo.	37, 46
SUBTITLE	Selects subtitles of the DVD disc.	37
ATR	Digital AUTO TRACKING	46
CLOCK/COUNTER	Changes the front panel display mode.	47
ZOOM	Zoom	36
ZERO RETURN	Stops the tape when the counter reaches 00:00:00.	47
A-B REPEAT	Repeats playback between A and B.	34
PLAY MODE	Selects the playback mode.	33
REPEAT	Repeats playback.	46

Parts and functions

Inserting Batteries into the Remote Control:

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



Caution:

Never throw batteries into a fire.

NOTES:

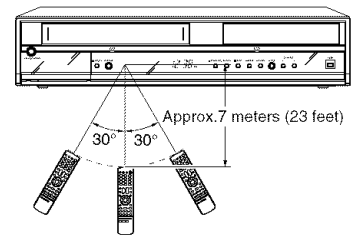
- Be sure to use AAA size batteries.
- Dispose of batteries in a designated disposal area.
- Batteries should always be disposed of with the environment in mind. Always dispose of batteries in accordance with applicable laws and regulations.
- If the remote control does not operate correctly, or if the 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

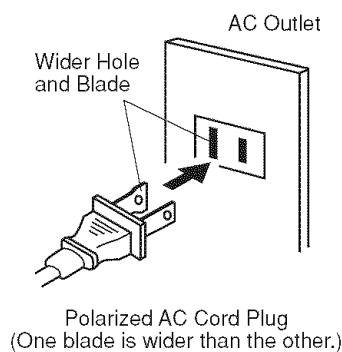
- Press **ON/STANDBY** to turn the DVD/VCR on or off.
- The **▲/▼/◀/▶** are also used to navigate on-screen menu system.
- Each press of **DVD** or **VCR**, switches the screen between the DVD screen (DVD mode) and the VCR screen (VCR mode).

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



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.

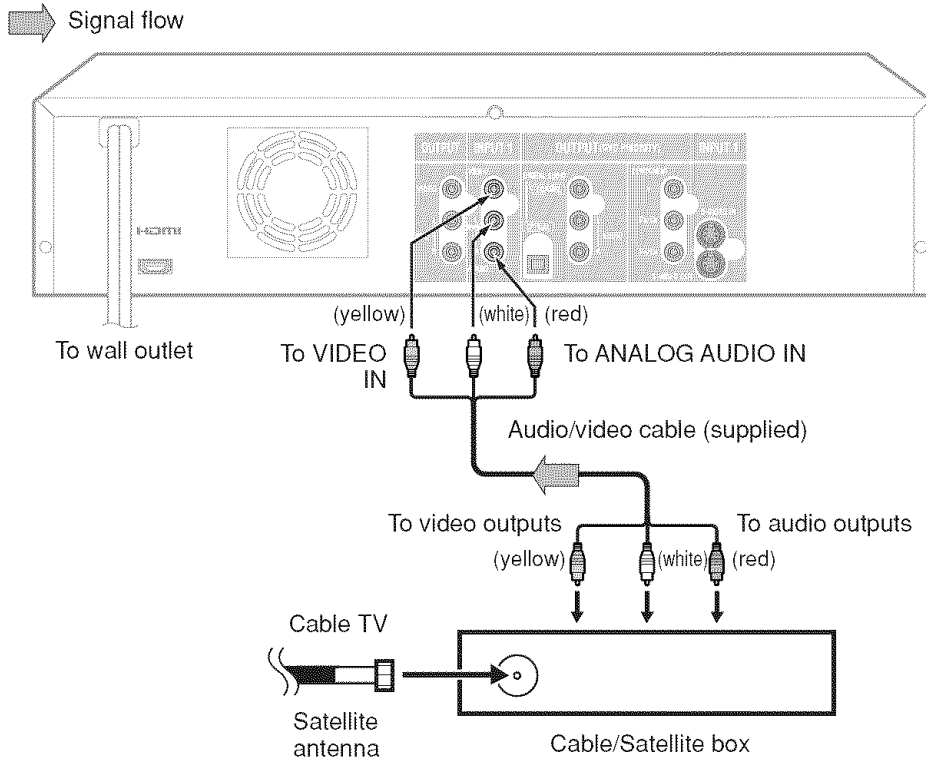
NOTES:

- 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.

Connecting to a Cable or Satellite Box

This DVD/VCR does not have a tuner. For recording TV programs, you need to connect to either Cable or Satellite Box.

DVD/VCR to Cable/Satellite Box connection



Notes:

- Refer to the owner's manual of the connected equipment as well.
- When you connect the DVD/VCR to other equipment, be sure to turn off the power and unplug all of the equipment from the wall outlet before making any connections.

Connections with the TV or audio component

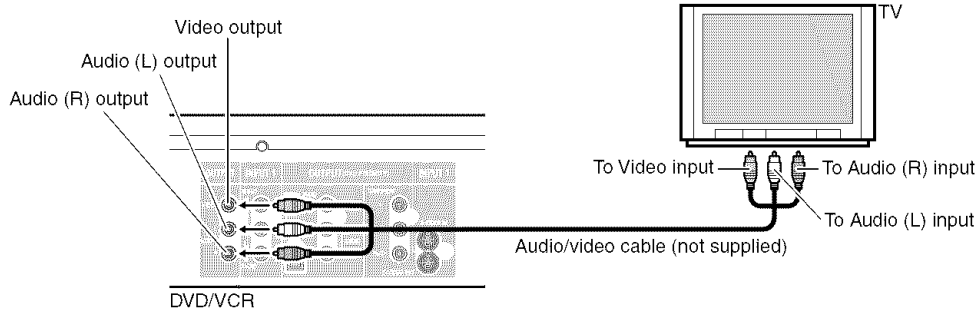
The exact arrangement you use to interconnect various video and audio components to the DVD/VCR is dependent on the model and features of each component. Check the Owner's Manual provided with each component for the location of video and audio inputs and outputs.

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.

Introduction

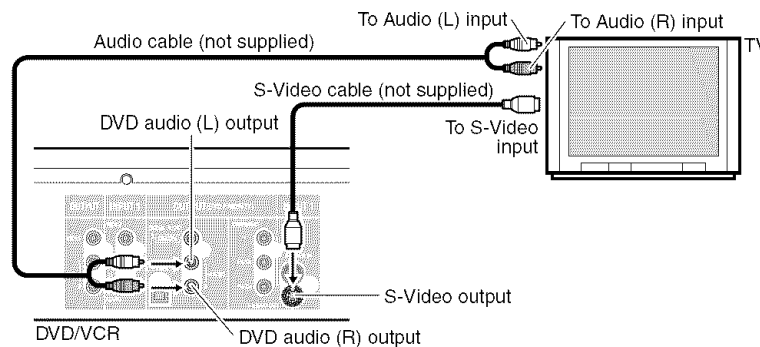
Connect to a TV with Audio/Video output

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.



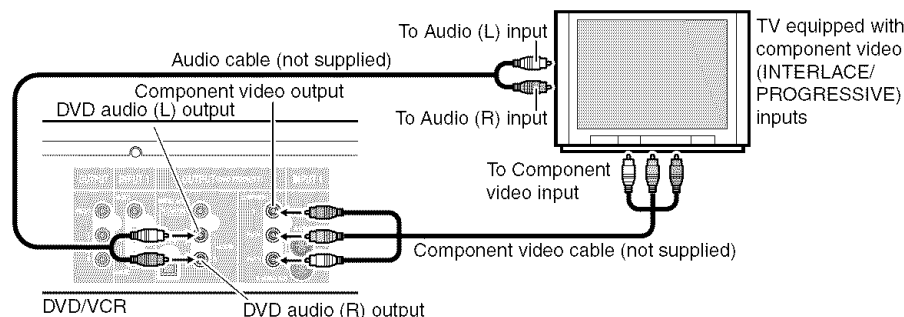
Connect to a TV with S-Video output

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).



To switch the output signals (Progressive/Interlace):

Press **PROGRESSIVE** to change the video output signals (480p: progressive and 480i: interlace) from Component video output jacks.

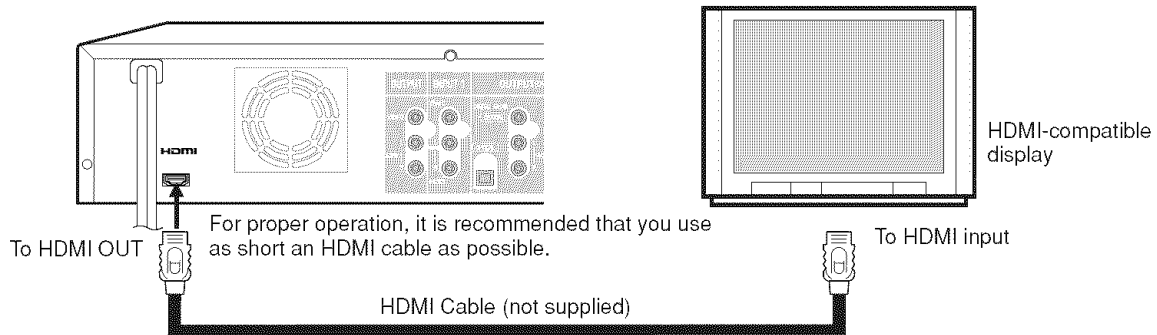
NOTES:

- **PROGRESSIVE** button is not available in VCR mode.
- When the progressive mode is active, the Progressive indicator "P" on the display window will light up.

Connections with the TV or audio component

Connect to a TV with HDMI output

HDMI stands for High Definition Multimedia Interface. HDMI transfers digital audio and uncompressed digital video on a single cable. As a result, audio cables and video cables don't need to be connected separately to a device. In addition, HDMI is compatible with HDCP (High Bandwidth Digital Content Protection).



NOTES:

- Refer to the owner's manual for the TV to be connected to this recorder for more information concerning HDMI connections.
- HDMI is an evolving technology, so it is possible that some devices may not operate properly with this recorder.
- No sound will be output from the HDMI OUT jack if the "Digital Output Mode" is not set to "PCM" (see page 27).

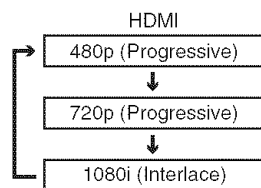
*Connectability checked HDMI Cable

Brand	Product number	Cable Length
MONSTER CABLE	HDMI400-2M	2 meters
MONSTER CABLE	HDMI400-1M	1 meter
BELKIN	AV52300-04	1.2 meters
BELKIN	AV52300-08	2.4 meters
DAYTON AUDIO	HDMI-2M	2 meters

To select the HDMI output resolution



1. Turn ON the TV and set to the HDMI mode.
2. Press **RESOLUTION** on the remote control to change the output resolution as below.



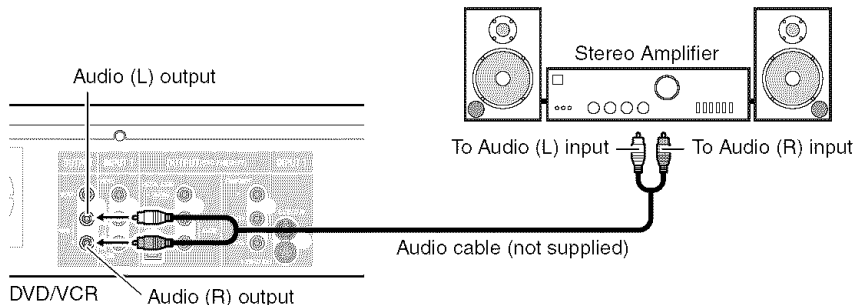
NOTES:

- When the HDMI cable is connected, the HDMI indicator "HDMI" on the display window will light up.
- If the HDMI cable is disconnected, the HDMI indicator "HDMI" on the display window goes off. In this case, connect the HDMI cable again.

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

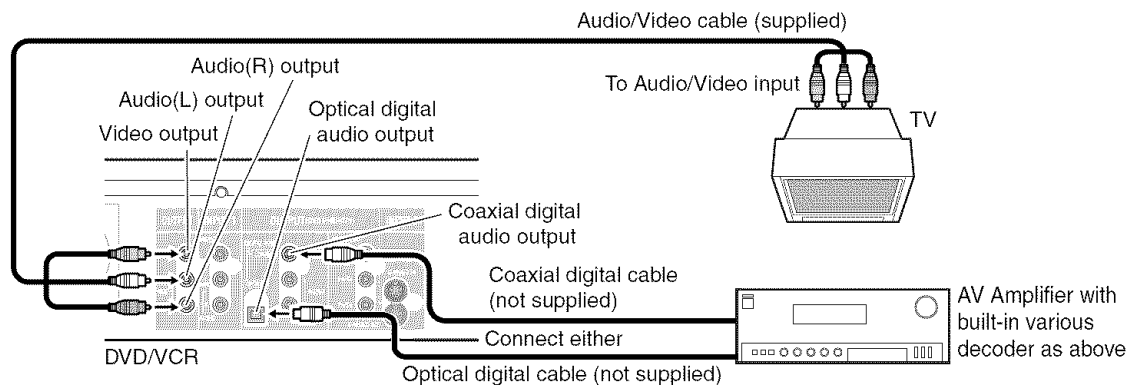
If you are using an Amplifier with a built-in digital surround as follows, you can enjoy the various audio systems such as Dolby Digital and DTS by using the optical or coaxial digital output.

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 (not supplied).



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:

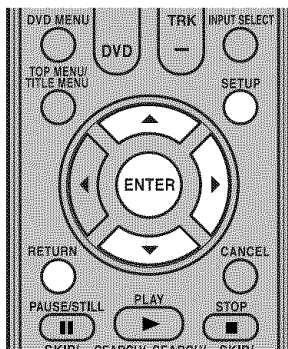
- When you connect the recorder to other equipment, be sure to turn off the power and unplug all of the equipment from the wall outlet before any connections.
- Turn off the amplifier before you connect or disconnect the recorder's power cord. If you leave the amplifier power on, the speakers may be 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.

SETUP MENU

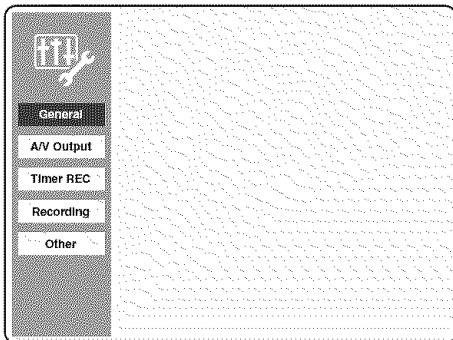
The **SETUP MENU** consists of several menus where you can make various settings concerning language, audio functions and images. In addition, this menu includes a clock, and other things that require setting just after purchase. For details of each menu, see the corresponding section in this chapter.

Using the SETUP MENU

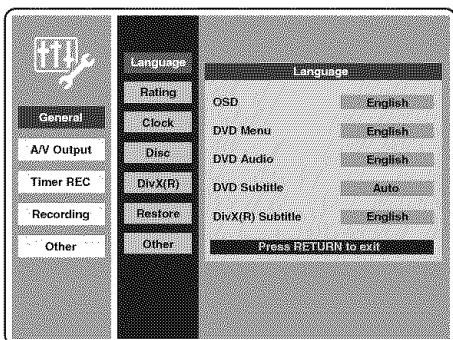
The following example shows the basic setting procedure of the SETUP MENU. The remote control keys that operate the SETUP MENU are displayed at the bottom of the screen.



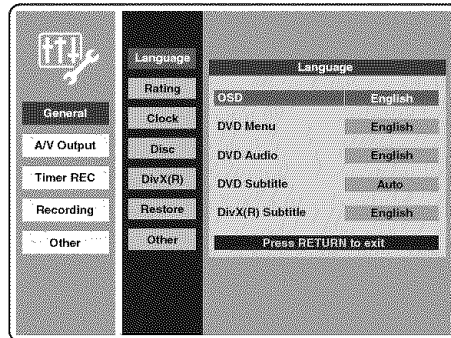
- 1 Press **SETUP**. The **SETUP MENU** screen will appear.



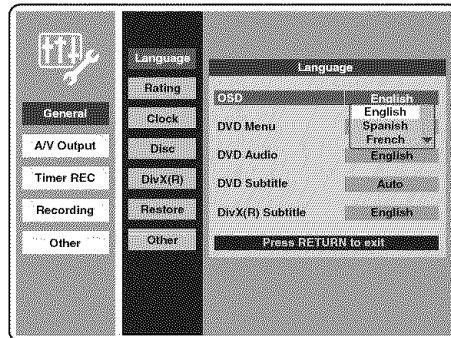
- 2 Press **▲** or **▼** to select the desired menu and press **ENTER** or **▶**. The submenu screen of the selected menu will appear.



- 3 Press **▲** or **▼** to select the desired submenu and press **ENTER** or **▶**. The first item will be selected.



- 4 Press **▲** or **▼** to select the desired item you want and press **ENTER**. Selectable items will be listed.



- 5 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**.

NOTES:

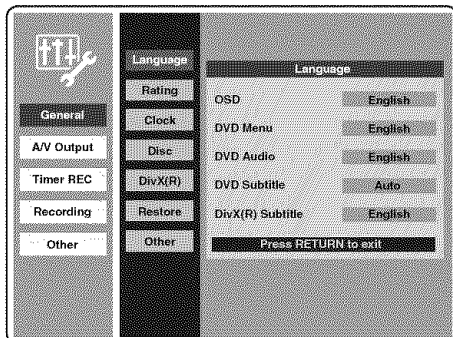
- For items that require different operations from the basic setting procedure, the setting procedure is described in each individual section.
- The item which is indicated by blue color cannot be selected.
- "Timer REC" cannot be selected when the clock is not set.

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 “General”. For the procedure, see steps 1 to 3 in “Using the SETUP MENU” on page 20.



OSD

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

Selectable languages:

English, Spanish, French

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, Spanish, French

The selected language is the first priority menu language.

DVD Audio

When several audio languages are recorded on a DVD, you can select the audio language to be played back. The selected language remains in effect after the power is turned off or the disc is replaced.

Select “DVD Audio” and select the audio language from the right.

Selectable languages:

English, Spanish, French

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

NOTE:

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

DVD Subtitle

When several subtitles languages are recorded on DVD, you can select the language to be used for the subtitles. The selected language remains in effect after the power is turned off or the disc is replaced.

Select “DVD Subtitle” and select the menu language from the below.

Selectable languages:

English, Spanish, French

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

Auto

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

Off

Subtitles do not appear.

NOTE:

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

DivX(R) Subtitle

When several DivX® subtitles languages are recorded on DivX® file, you can select the language to be used for the subtitles. The selected language remains in effect after the power is turned off or the disc is replaced. Select “DivX(R) Subtitle” and select the menu language from the below.

Selectable languages:

Czech, Dutch, English, French, German, Hungarian, Italian, Polish, Spanish, Swedish

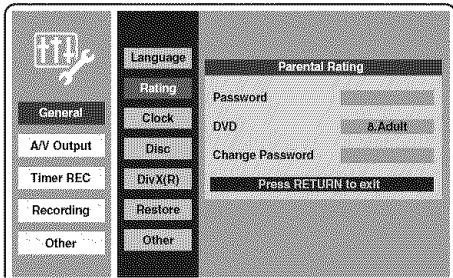
Various settings

Setting the parental control

Some discs are specified as not suitable for children. This unit can prevent playback of such discs.

Preparation:

- Turn ON the TV and set it to the video input mode.
- Select "**Rating**" from "**General**". For the procedure, see steps 1 to 3 in "Using the SETUP MENU" on page 20.



Setting your password

- 1 Select "Password". Use the **numeric keys** to input your own password first.
 - If you input a wrong number, press **CANCEL**.
 - Be sure to remember this number!
- 2 Then, you can change the parental control level.

Selecting parental control

- 1 Select "DVD" and select the parental control level from the below.
 1. **Kid Safe:** Adult discs and general discs (R-rated discs included) cannot be played back.
 2. **G:** Adult discs and R-rated discs cannot be played back.
 3. **PG:** Adult discs and R-rated discs cannot be played back.
 4. **PG13:** Adult discs cannot be played back.
 5. **PG R:** (Level 4 to 7 discs contain content children age 15 and younger may not see.)
 6. **R:** (Level 4 to 7 discs contain content children age 15 and younger may not see.)
 7. **NC17R:** (Level 4 to 7 discs contain content children age 15 and younger may not see.)
 8. **Adult:** Virtually all discs can be played back without restriction.

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

- 2 Press **ENTER**.

Setting the new password

- 1 Select "Change Password". Then press **ENTER**.
 - 2 Use the **numeric keys** to input old password.
 - 3 Input the new password.
 - 4 Input the new password again to confirm.
- 22**

- 5 Select "OK", then press **ENTER**.

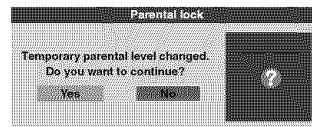
NOTES:

- 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 password, press and hold **number 7** on the remote control, then press and hold **STOP** on the front panel at the same time until the On-Screen Display shows "Parental Unlock Completed". You can now set a new password.

Temporarily cancelling parental control

Parental control can temporarily be canceled with some DVDs.

- 1 Playback a DVD. (See page 29.)
- 2 If the DVD disc has been designed to temporarily cancel the rating level, the screen that follows will appear.



- 3 If you wish to cancel the set rating level temporarily, select "Yes", then press **ENTER**. If the password has been set, 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 "No". The setting screen will disappear. Press **OPEN/CLOSE** to remove the disc.
- 4 Use the **numeric keys** to input the password.
 - To interrupt the input process, press **RETURN**.
- 5 Press **ENTER**.
- 6 Playback will commence if the entered password was correct.

NOTE:

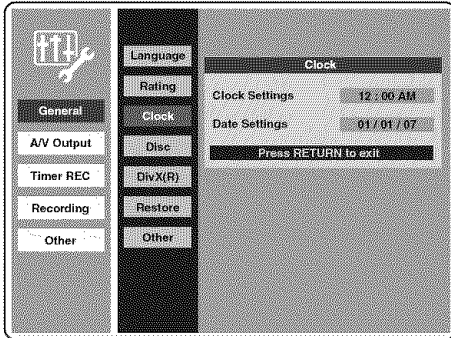
This temporary cancellation of the rating level will remain active until the disc is ejected. When the disc is ejected, the original rating level will be set again automatically.

Setting the clock / Setting the disc

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

Preparation:



- Turn ON the TV and set it to the video input mode.
- Select “Clock” from “General”. For the procedure, see steps 1 to 3 in “Using the SETUP MENU” on page 20.




Example:

Setting the clock to “10:20AM” March, 25th, 2007.

Clock Settings

- 1 Select “Clock Settings” and press **ENTER**.
- 2 Press ◀ or ▶ to select hour, minute and AM/PM.

- 3 Press ▲ or ▼ to set the value of the selected item.

- 4 Repeat steps 2 and 3 to set the hour, minute and AM/PM. Then press **ENTER**.

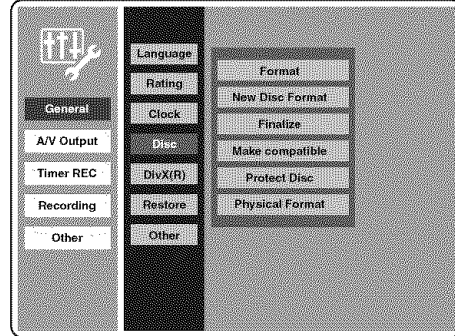
Date Settings

- 1 Select “Date Settings”. Then press **ENTER**.
- 2 Press ◀ or ▶ to select month, date and year.

- 3 Press ▲ or ▼ to set the value of the selected item.
- 4 Repeat steps 2 and 3 to set the month, date and year. Then press **ENTER**.

This section describes disc setting.

Preparation:

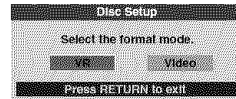
- Turn ON the TV and set it to the video input mode.
- Select “Disc” from “General”. For the procedure, see steps 1 to 3 in “Using the SETUP MENU” on page 20.



Format

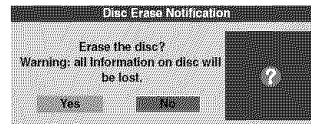
You can format a recorded DVD-RAM/-RW/+RW. Check the content of the disc before format. If you format the disc, the recorded content of the disc will be erased.

- 1 Select “Format”, then press **ENTER**.
In case of DVD-RW: The screen below will appear. Press ◀ or ▶ to select “VR” or “Video” mode, then press **ENTER**.

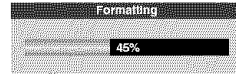


In case of DVD+RW, DVD-RAM: Go to step 2.

- 2 The Disc Erase Notification will appear.



- When you select “Yes” and press **ENTER**, format will start. The screen below will appear.



- When you select “No” and press **ENTER**, format will be canceled.

NOTES:

- You cannot format Ver. 1.0 DVD-RW and DVD-R.
- You cannot format a disc if the disc protection is “ON”. In such a case, be sure to cancel the disc protection (see page 25) before format.

Various settings

Setting the disc (continued)

New Disc Format

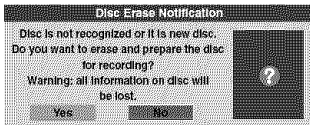
If you insert an unused DVD-RW disc, the disc is automatically formatted.

If you use the DVD-RW (Ver.1.1/1.2), you can select the mode to be used for automatic format.

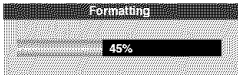
Select "New Disc Format" and select the mode from the list below.

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

When you insert an unused disc, the following message screen will appear.



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



- When you select "No" and press **ENTER**, format will be canceled.

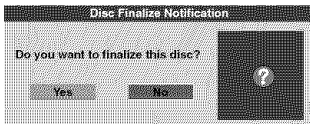
NOTE:

If a recorded disc has scratches or contamination on it, the "New Disc Format" screen may appear. If this happens, select "No" and press **ENTER**.

Finalize

To play a DVD-RW/R or DVD+R disc recorded on this unit, you must finalize the disc to insure compatibility with other DVD players.

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**, finalize will be canceled.

NOTES:

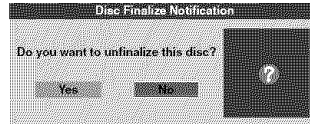
- The finalization process may require a few minutes to about 1 hour according to disc type or the amount of free space on the disc.
- You can record or edit a finalized DVD-RW (in VR mode) by cancelling the finalizing, but you cannot do these operations with a DVD-RW (Video mode), or with a DVD-R or with a DVD+R.
- Even if you finalize a disc in the Video mode, the disc cannot be played back in some DVD players.
- A DVD-R disc cannot be named after it is finalized.
- When finalized disc inserted, this menu will change to "Unfinalize". See "Unfinalize".

Unfinalize

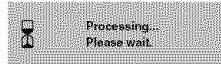
You can cancel the finalization of a finalized DVD-RW (in VR mode) and DVD+RW.

You cannot cancel the finalization for discs other than above. You can record or edit on a disc whose finalization has been canceled.

Select "Unfinalize", and the screen below will appear.



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



- When you select "No" and press **ENTER**, unfinalizing.

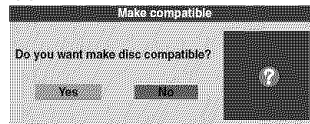
NOTES:

- The unfinalizing 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 canceled, you cannot select "Unfinalize".
- When unfinalized disc inserted, this menu will change to "Finalize". See "Finalize".

Make compatible

To play a DVD+RW disc recorded on this unit, the disc needs this procedure to insure compatibility with other DVD players.

When "Make compatible" is selected, the screen below will appear.

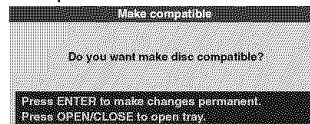


- When you select "Yes" and press **ENTER**, Make compatible will start. The screen below will appear.
- When Make compatible process is finished, the disc will be ejected automatically.



- When you select "No" and press **ENTER**, Make compatible will be canceled.

If you eject the disc without making disc compatible, the screen below will appear. Press **ENTER** to make the disc compatible.



- When making disc compatible is finished, the title menu of the disc will appear on the screen then after the disc will be ejected automatically.
- If you don't need making disc compatible, press **OPEN/CLOSE** to eject the disc.

NOTE:

Even if you make a disc compatible the disc cannot be played back in some DVD players.

Setting the disc (continued) / DivX(R) Video On Demand / Restore / Setting other item

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 press **ENTER** to protect the disc. SETUP menu will disappear automatically when Protect Disc is finished.

NOTE:

When protected disc is inserted, this menu will change to "Unprotect Disc". Select "Unprotect Disc" and press **ENTER** when you release the protection of the disc.

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.

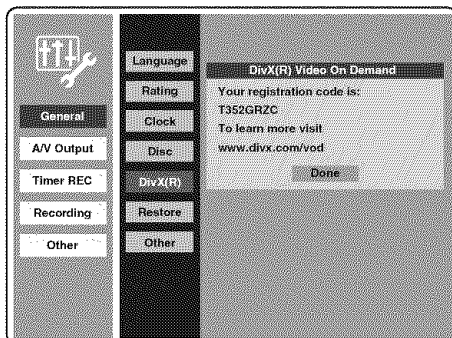
This section describes DivX® Video On Demand.

DivX(R)

This unit is designed and manufactured to support the DivX® VOD (Video On Demand) DRM (Digital Rights Management). You can display the registration code of DivX® VOD.

Preparation:

- Turn ON the TV and set it to the video input mode.
- Select "**DivX(R)**" from "**General**". For the procedure, see steps 1 to 3 in "Using the SETUP MENU" on page 20.

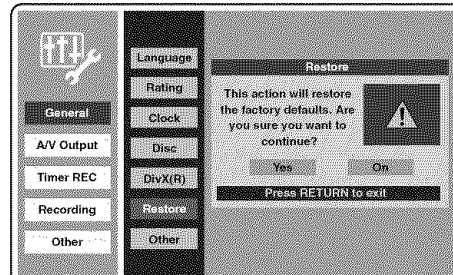


Restore

This action will restore the factory defaults.

Preparation:

- Turn ON the TV and set it to the video input mode.
- Select "**Restore**" from "**General**". For the procedure, see steps 1 to 3 in "Using the SETUP MENU" on page 20.



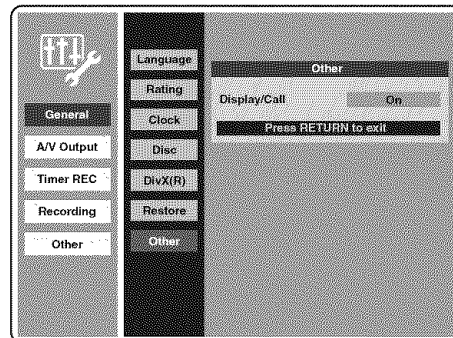
- When you select "Yes" and press **ENTER**, all the settings will return to the factory setting (except Clock settings, Date settings, DVD rating and Password).
- When you select "No" and press **ENTER**, Restore will be canceled.

Display/Call

You can turn off the screen display that is output to the TV screen by this unit. Select "Display/Call", and select "On" or "Off".

Preparation:

- Turn ON the TV and set it to the video input mode.
- Select "**Other**" from "**General**". For the procedure, see steps 1 to 3 in "Using the SETUP MENU" on page 20.



On: The screen display appears.

Off: Nothing but the SETUP MENU and error messages appear.

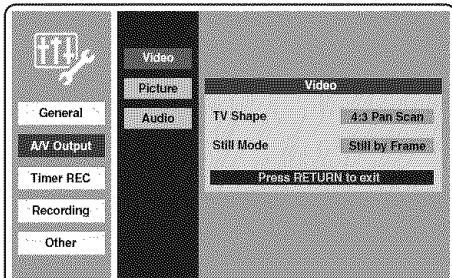
Various settings

Setting the A/V Output

This section describes screen settings.

Preparation:

- Turn ON the TV and set it to the video input mode.
- Select **"Video"** from **"A/V Output"**. For the procedure, see steps 1 to 3 in "Using the SETUP MENU" on page 20.



TV Shape

You can select the TV screen size to suit the screen image. Select "TV Shape" and select screen size from the below.

4:3 Letter Box

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.

4:3 Pan Scan

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

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.

Still Mode

You can set the type of image displayed on the TV screen when the playback of the DVD is stilled. Select "Still Mode" and select the image to be displayed from the below.

Still by Frame

The frame still is set.

Automatic

The field still or frame still is automatically selected. (For normal use.)

Note for the field still and frame still:

(with 480i interlaced scanning mode)

- **Field*** still (240 lines)
Since only one field (half of the video information) is shown on the TV screen, the picture appears rough but does not shake.
- **Frame*** still (480 lines)
Two fields are alternatively shown on the TV screen. The picture shakes but the resulting picture quality is superior to the field still pictures.

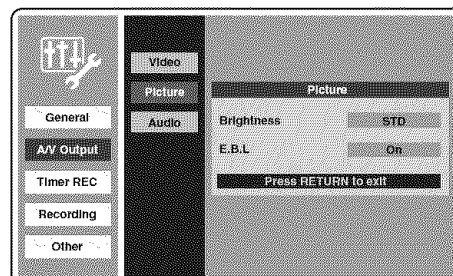
Field*: A field refers to the video information in one-half of a frame. 1 frame (screen) consists of 2 fields.

Frame*: A frame refers to the total area occupied by each picture on the TV screen.

This section describes image quality settings.

Preparation:

- Turn ON the TV and set it to the video input mode.
- Select **"Picture"** in **"A/V Output"**. For the procedure, see steps 1 to 3 in "Using the SETUP MENU" on page 20.



Brightness

You can control the brightness level of the image. Select "Brightness" and select the level from the below.

MIN: The image becomes darker.

STD: The image is of standard brightness.

MAX: The image becomes brighter.

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)

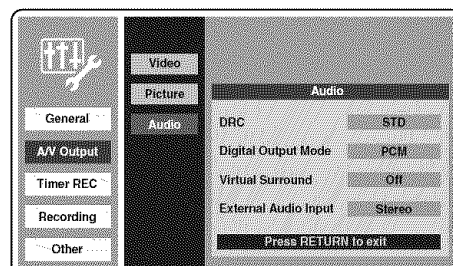
NOTE:

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 **"A/V Output"**. For the procedure, see steps 1 to 3 in "Using the SETUP MENU" on page 20.



Setting the A/V Output (continued) / Recording

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.

- TV:** Dynamic range is reduced.
- STD:** Full dynamic range is reduced.
- MAX:** Full dynamic range is maintained.

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.

Digital Output Mode

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

- Bitstream:** 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.

Virtual Surround (QSound)

Sound that is not recorded in the surround mode will be changed to artificial surround sound and output.

Select "Virtual Surround" and select "On" to activate the virtual surround function. Select "Off" to cancel the virtual surround function.



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

NOTES:

- This function does not work with a video tape.
- The "QSound" works only when the DVD disc recorded with Dolby Digital is played back.
- When this function works, the volume might changed.
- When the voice is distorted, turn off QSound.

External Audio Input

The audio mode for the audio input jack can be selected, choosing either stereo or monaural.

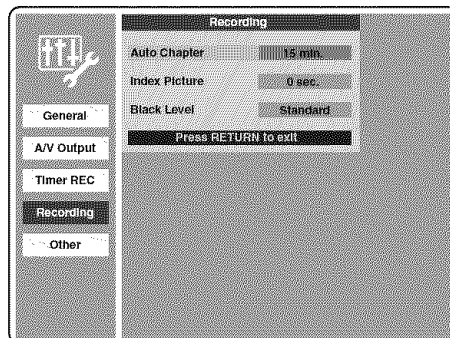
Select "External Audio Input" and select from the below.

- Stereo:** The sound is treated as stereo sound.
- L CH:** The sound is treated as the monaural sound of the left channel.
- R CH:** The sound is treated as the monaural sound of the right channel.

This section describes recording settings.

Preparation:

- Turn ON the TV and set it to the video input mode.
- Select "Recording". For the procedure, see steps 1 to 2 in "Using the SETUP MENU" on page 20.



Various settings

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.
- 5 min.:** The interval is set to 5 minutes.
- 10 min.:** The interval is set to 10 minutes.
- 15 min.:** The interval is set to 15 minutes.

Index Picture

You can set the time that the thumbnail image is registered in the title menu of DVD-RW (VR mode).

Select "Index Picture" and select from the below.

- 0 sec.:** The image of a recording start point is registered.
- 1 min.:** The image of a recording at 1 minute start point will be registered.
- 3 min.:** The image of a recording at 3 minutes start point will be registered.

NOTE:

You cannot select the thumbnail image for Video mode.

Black Level

You can set the black level for when you record.

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

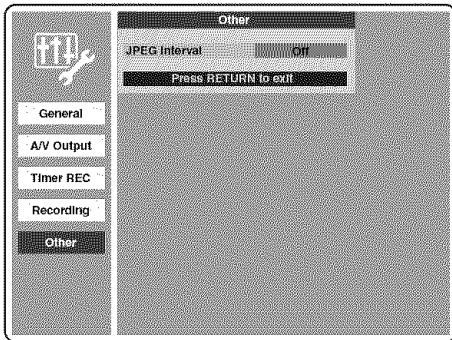
The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs and other materials, is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and/or criminal liability.

Other

You can set the switching interval between played back images in the slide show mode.

Preparation:

- Turn ON the TV and set it to the video input mode.
- Select “**Other**”. For the procedure, see steps 1 to 2 in “Using the SETUP MENU” on page 20.



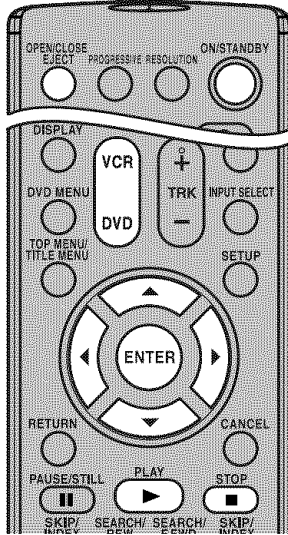
JPEG Interval

You can select the interval time for JPEG slide show (see page 42).

Select “JPEG Interval” and select the switching interval between images from the below.

- Off:** The slide show mode is not used.
- 5 sec.:** The interval is set to 5 seconds.
- 10 sec.:** The interval is set to 10 seconds.
- 15 sec.:** The interval is set to 15 seconds.

Playback procedure



NOTES:

- If a non-compatible disc is loaded, "Incorrect disc", "Wrong region" or "Wrong Rating" will appear on the TV screen according to the type of loaded disc. In this case, check your disc again (See pages 9 and 22).
- 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 cannot 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 (i.e. the wrong way up) and press **PLAY** or **OPEN/CLOSE**, "⊘" will appear and then it will change to "⊙".
- 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.

Preparation:

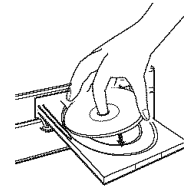
- Turn ON the TV and set to the video input mode.
- Press **DVD** to select the DVD mode. (The DVD indicator will light.)

NOTE: It is impossible to switch to the VCR mode while DVD is played back.

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

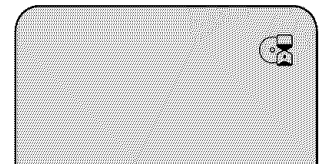


- 2 Place a disc onto the tray.
Hold the disc, position it with the printed label side up, align it with the guide and place it in its proper position.



Disc playback

- 3 Press **OPEN/CLOSE** to close the disc tray.
"⊙" 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.

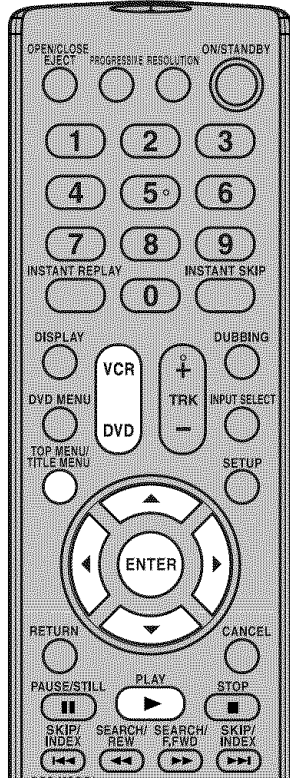
- 5 Press **STOP** to end playback.
 - The DVD/VCR memorizes the stopped point, depending on the disc. "■" appears on the screen for approx. 4 seconds. "▶" keeps blinking in the display window until the playback is stopped completely. Press **PLAY** to resume playback (from the scene point).
 - If you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

- 6 Then 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



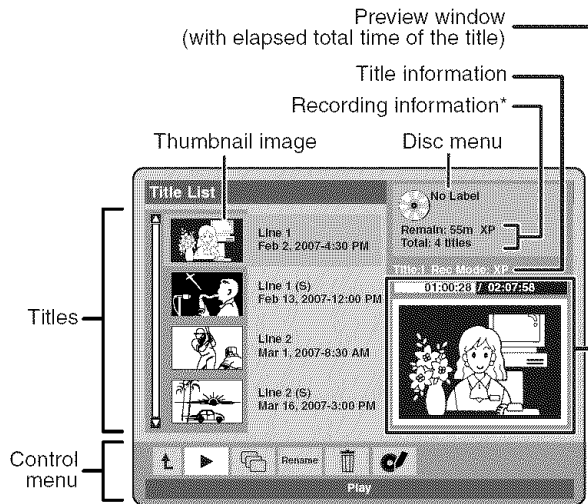
When playing back a recorded disc, you can display the Title List and select the title to be played back.



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 Title List will appear.



The first title will be highlighted.

* The remain time changes depending on the recording mode that has been selected now.

2 Press **▲** or **▼** to select the title you want to playback.
• You can check the recorded title by motion picture in the preview window.

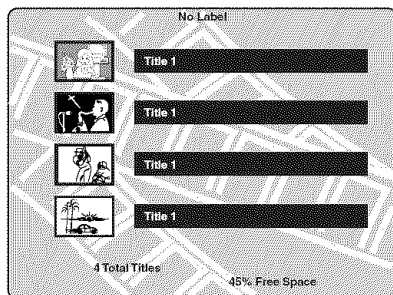
3 Press **PLAY**. Or press **◀/▶** to select **▶** in the control menu, then press **ENTER**.
The selected title is played back.

NOTES:

- If you don't display the Title List and press **PLAY**, the first title is played back.
- The Title List is used not only for playing back titles but also for editing various discs and titles. For details of editing operation, see page 57.
- You cannot switch to the VCR mode when the Title List is showing. Press **TITLE MENU** to clear the Title List, then press **VCR** to switch to the VCR mode.

NOTE:

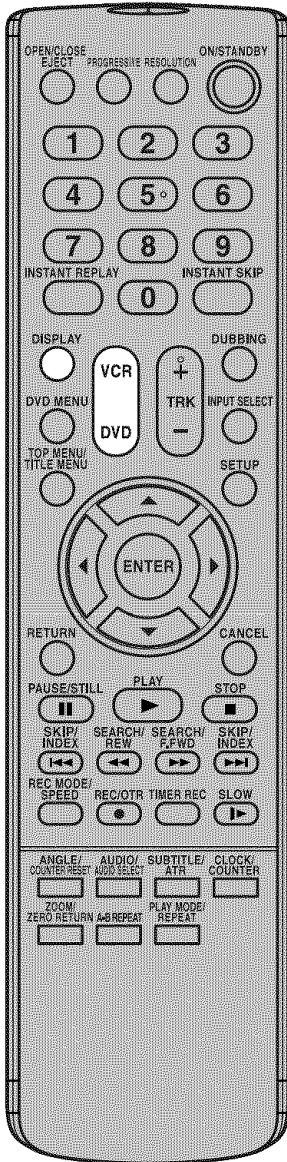
When a disc that has been recorded in the Video mode is finalized, the Title List is automatically changed that can be played back even with other DVD players. The recording information will not appear in the Title List after finalizing.



Checking media information



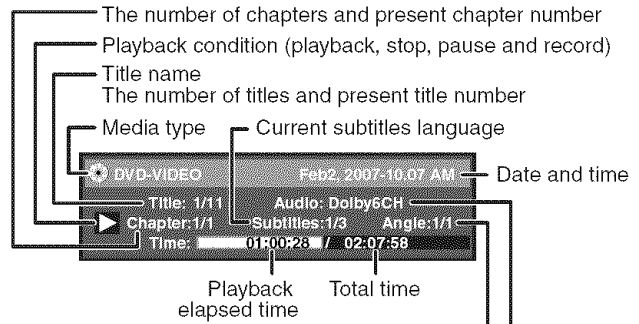
Various information on the loaded disc can be displayed on the TV screen.



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**. Information will appear.



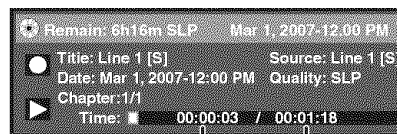
Disc playback

The number of angles and present angle number
The number of audio languages and present language

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

- 2 Press **DISPLAY** again while the media information above is displayed. The media information will disappear.

- * If you press **DISPLAY** during chase playback, the information screen is displayed. The both symbols (recording and playing) indicate that the player is in chase playback. The time counter shows the playback elapsed time and the recording elapsed time. Items other than these appear the same as on a normal information screen.



Playback elapsed time Recording elapsed time

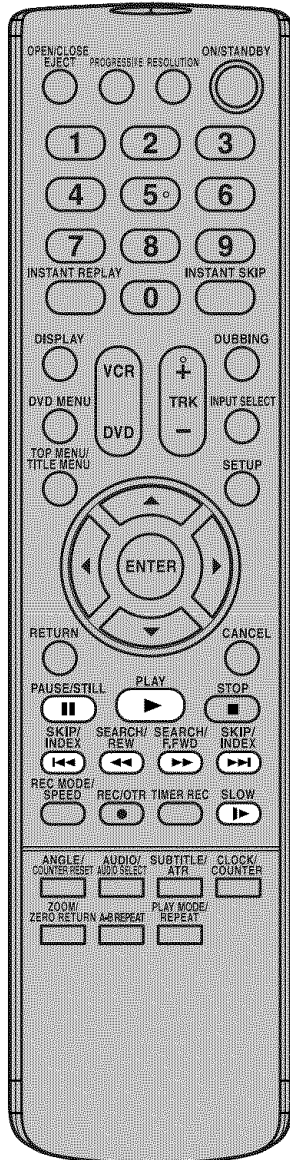
NOTES:

- 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.

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 of the search **▶▶** (x2), **▶▶▶▶** (x12), **▶▶▶▶▶▶** (x24), **▶▶▶▶▶▶▶▶** (x100).

(The speed of the search is increased up to only 2 steps in Audio CD.)

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

Review playback

Press **SEARCH** **◀◀** during normal playback.

Each press of **SEARCH** **◀◀** will increase the speed of the search **◀◀** (x2), **◀◀◀◀** (x12), **◀◀◀◀◀◀** (x24), **◀◀◀◀◀◀◀◀** (x100).

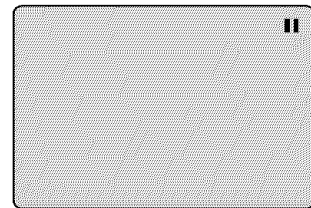
(The speed of the search is increased up to only 2 steps in Audio CD.)

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

Still playback

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

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

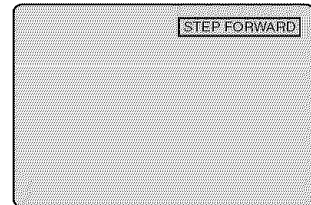


Frame advance

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 "▶ x 1/2", "▶ x 1/4" and "▶ x 1/8".

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

Locating a chapter or track

Press **SKIP** **▶▶** or **SKIP** **◀◀** during playback to locate a chapter that you want to watch.

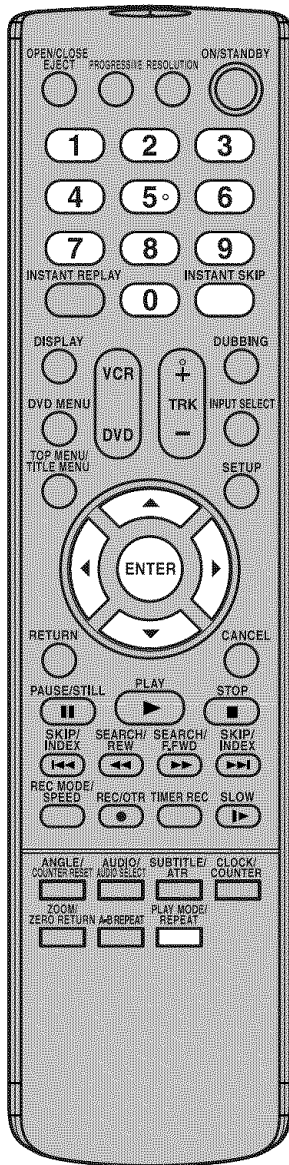
Each time you press the button, a chapter or track is skipped.

- When you press **SKIP** **◀◀** once, playback starts from the beginning of the current chapter or track. If you want to play the preceding chapter or track, press **SKIP** **◀◀** 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 and a MP3/WMA/JPEG CD.

Instant skip / Locating a specific scene



Instant skip

Use this function to skip commercials while playback.

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

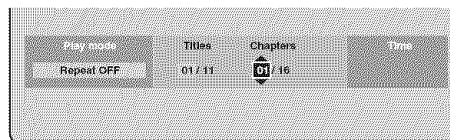
NOTE:

With some DVD-Video, the Instant skip operation may not work.

Locating a specific scene

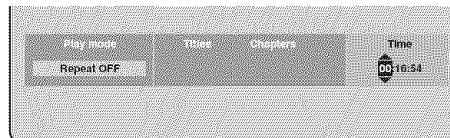
Specify the time recorded on the disc, chapter or title to playback.

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



- 2 Press **◀** or **▶** to select "Titles", "Chapters" or "Time".

- Titles:** Select the title number to be played back.
- Chapters:** Select the chapter number to be played back.
- Time:** Input the time to be played back.



The screen above shows the display when "Time" is selected.

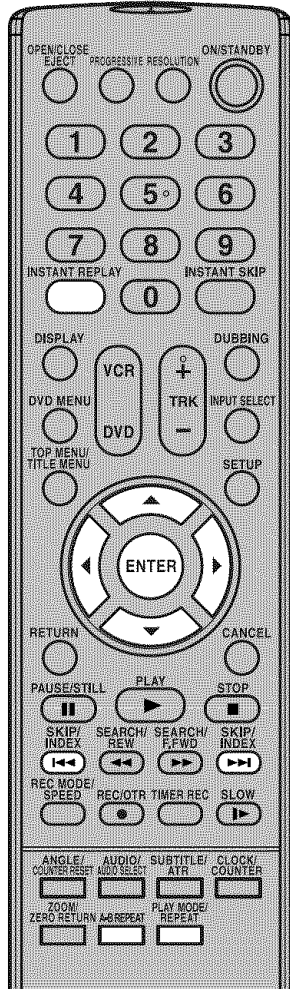
- 3 When "Time" is selected, input the time to be played back with the **numeric keys**. When "Titles" or "Chapters" is selected, press **▲** or **▼** to select the chapter number or title number.
- 4 Press **ENTER**. The playback starts at the point you selected.

NOTE:

For "repeat playback", see "Title/Chapter repeat playback" (see page 34).

Disc playback

Repeat playback



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.

The video returns to a point 10 seconds before and playback resumes.

NOTES:

- If the time from the title top is less than 10 seconds when **INSTANT REPLAY** is pressed, the title top is repeated and then the video is played back.
- With some DVD-Video, the 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.



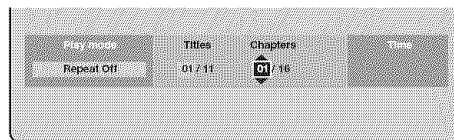
2 Press **A-B REPEAT** again.
The end point is selected. Playback starts at the point that you selected. Playback stops at the end point, returns to point A automatically, then starts again.



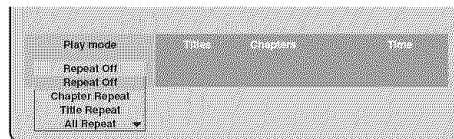
To resume normal playback, press **A-B REPEAT** again.
"Repeat Off" appears on the screen.

Title/Chapter repeat playback

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



2 Press **◀** or **▶** to select "Play mode" and press **ENTER**.



3 Press **▲** or **▼** to select "Repeat Off", "Chapter Repeat", "Title Repeat" or "All Repeat".

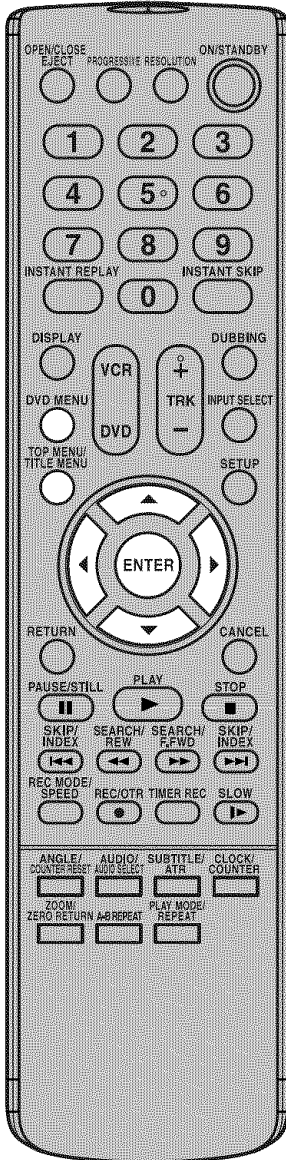
- Repeat Off:** Playback is not repeated.
- Chapter Repeat:** The chapter is played back repeatedly.
- Title Repeat:** The title is played back repeatedly.
- All Repeat:** The disc is played back repeatedly.

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

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, Title repeat and Chapter repeat will not work with a MP3/WMA/JPEG-CD.
- Chapter repeat will not work with a DivX® CD.
- Chapter repeat is canceled whenever **SKIP ▶▶** or **SKIP ◀◀** is pressed.
- In case of Video CD with PBC, A-B repeat is prohibited.

Title selection / DVD menu



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 where you pressed **TOP MENU/TITLE MENU**.
- 2 Press **▲/▼** or **◀/▶** to select the desired title.
- 3 Press **ENTER**. The playback of the selected title will start.

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.

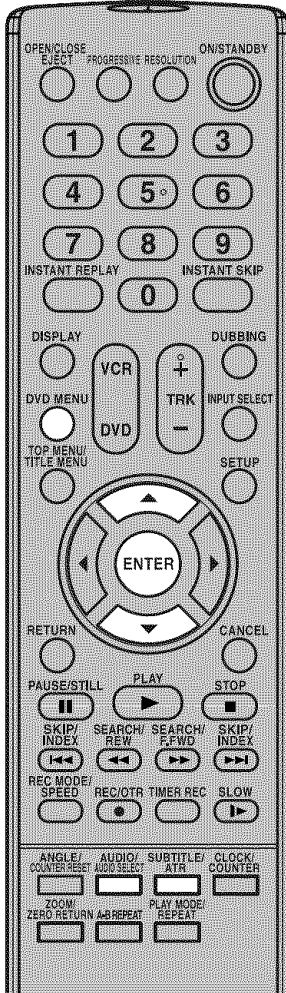
- 1 Press **DVD MENU** during playback. The DVD menu appears on the screen.
 - Press **DVD MENU** again to resume playback at the scene where you pressed **DVD MENU**.
- 2 Press **▲/▼** or **◀/▶** to select the desired item.
- 3 Press **ENTER**. The menu continues to another screen. Repeat steps 2 and 3 to set the item completely.

Disc playback

NOTES:

- Depending on the DVD, you may not be able to select the title, and a "title menu" may simply be called a "menu" or "title" in the instructions supplied with the disc.
- Depending on the DVD, you may not be able to resume playback at the scene where you pressed **TOP MENU/TITLE MENU** or **DVD MENU**.

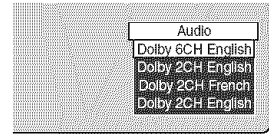
Changing soundtrack language / Subtitles / To turn off the PBC (VIDEO CD Version 2.0)



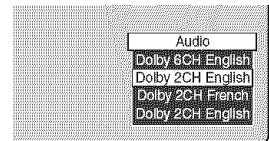
Changing soundtrack language

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

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



- 2 Press **▲** or **▼** to select the desired language is selected.
The press **ENTER**.

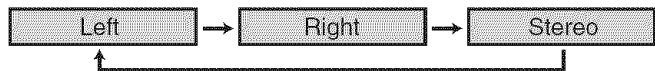


Disc playback

- **In case of Bilingual broadcast playback** You can switch between the left or right channel and stereo only when playing a disc on which a bilingual broadcast was recorded in the DVD-RW VR mode. It is not possible to switch between channels otherwise as only the channel selected in the DVD-RW Video mode or DVD-R.

- **In case of VIDEO CD playback** Each time you press the **AUDIO** button, the audio type will change as follows:

VIDEO CD

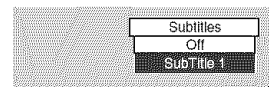


Subtitles

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



NOTES:

- If the desired language is not heard after pressing the button several times, the language is not recorded on the disc.
- Changing soundtrack or subtitles language is canceled 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.

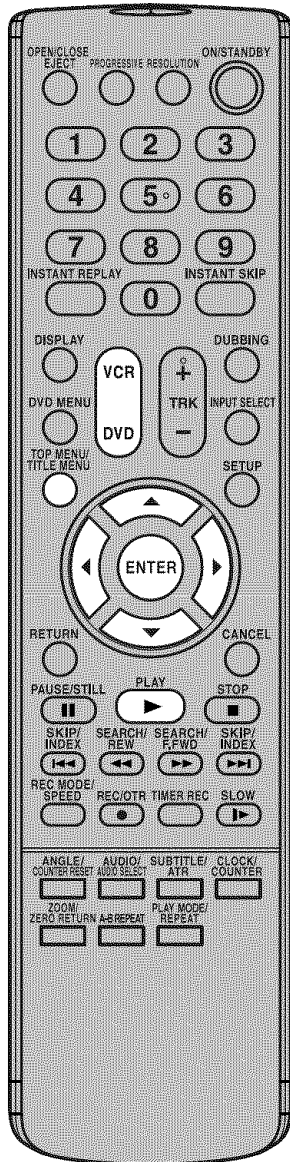
To turn off the PBC (VIDEO CD Version 2.0)

Press **DVD MENU** in the stop mode.
To turn on the PBC, press **DVD MENU** again.

Various operations on CD



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

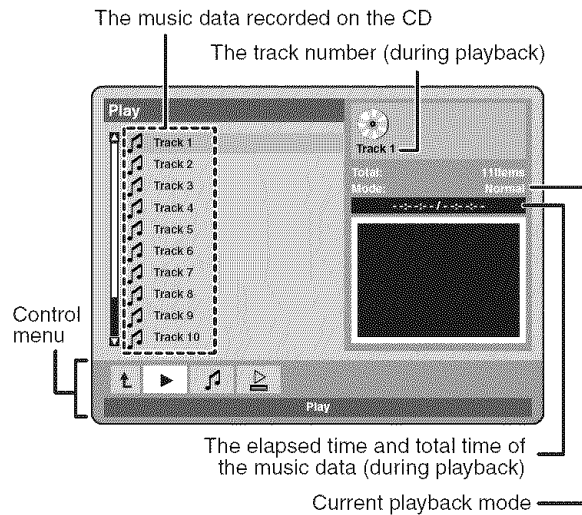


Preparation:

- 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.)

Press **TOP MENU/TITLE MENU**.

The Play screen will appear.



Control menu

You can operate CD by using the control menu.

Press ◀ or ▶ to select icon, then press **ENTER**.

Some icon has a pop-up menu. Select an item in the pop-up menu using, then press **ENTER**.

Example of the icon



Exit
(from the
Play screen)



Play
(the selected file)




Select files
(see page 40)





Play mode
(see below)

Playing back a selected track

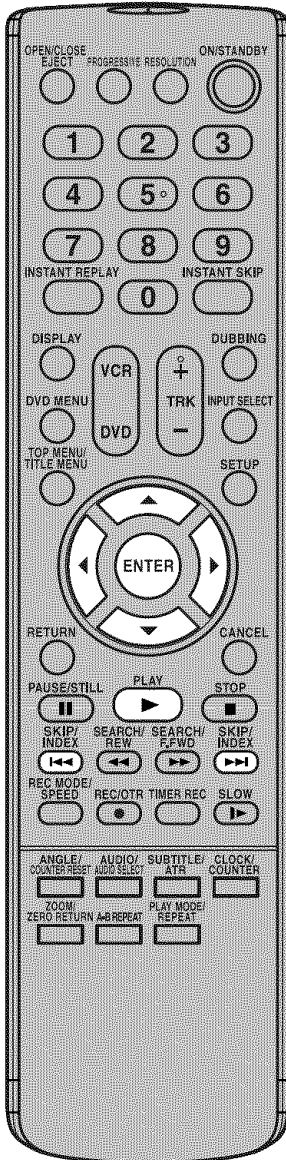
- 1 Press ▲ or ▼ to select the track number you want to playback.
- 2 Press ◀ or ▶ to select  from the control menu and press **ENTER**. Or press **PLAY**.
The selected track will be played back.

Play once

- 1 Press ◀ or ▶ to select  (Play mode), then press **ENTER**. Press ▲ or ▼ to select "Play once", then press **ENTER**.
- 2 Select a track and press **PLAY**. The selected track is played back only once.

To cancel the Play once playback, select "Normal" from  (Play mode), and press **ENTER**.

Various operations on CD



NOTE:

Repeat one playback is canceled whenever **SKIP** or **SKIP** is pressed.

Shuffle playback

- 1 Press or to select (Play mode) from the control menu and press **ENTER**. Press or to select "Shuffle", then press **ENTER**.
- 2 Press **PLAY**.
All tracks are played back in random order.

To cancel random playback, select "Normal" from (Play mode), and press **ENTER**.

Repeat playback of selected track

- 1 Press or to select (Play mode), then press **ENTER**. Press or to select "Repeat one", then press **ENTER**.
- 2 Select a track and press **PLAY**. The selected track is played back repeatedly.

To cancel Repeat one playback, select "Normal" from (Play mode), and press **ENTER**.

Repeat playback of all tracks

- 1 Press or to select (Play mode), then press **ENTER**. Press or to select "Repeat all", then press **ENTER**.
- 2 Press **PLAY**.
All tracks on CD is played back repeatedly.

To cancel Repeat all playback, select "Normal" from (Play mode), and press **ENTER**.

Shuffle and repeat playback

- 1 Press or to select (Play mode), then press **ENTER**. Press or to select "Shuffle Repeat", then press **ENTER**.
- 2 Press **PLAY**.
All tracks are played back in random order repeatedly.

To cancel Shuffle Repeat playback, select "Normal" from (Play mode), and press **ENTER**.

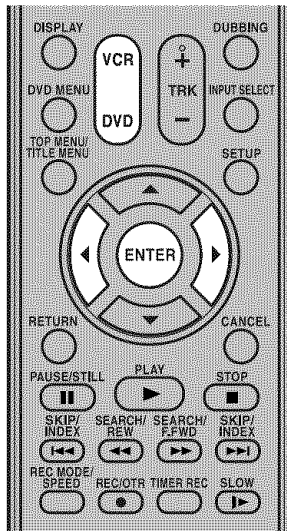
Disc playback

MP3/WMA/JPEG/DivX® playback



MP3 and WMA files can be played back. You can also display JPEG/DivX® files on the TV screen and enjoy them.

Some discs may not play due to the condition of the recording.



Limitations on MP3/WMA/JPEG/DivX® playback:

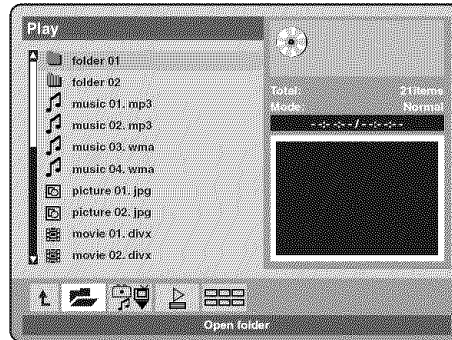
- MP3/WMA/JPEG/DivX® CD is a disc that is standardized by ISO9660.
- The folder and file names of the MP3/WMA/JPEG/DivX® CD must correspond to the ISO standardized file names.
- This unit can read 200 files per folder. If one folder has more than 200 files, it reads up to 200 files, the remaining files will be omitted.
- If the CD has both audio tracks and MP3/WMA/JPEG/DivX® files, only audio tracks are played.
- It may take more than one minute for this unit to read MP3/WMA/JPEG/DivX® 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.
- The MP3/WMA/JPEG files recorded on DVD disc cannot be playback.
- The DivX® files recorded on DVD disc can be playback.

Preparation:

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

Using the Play screen

- 1 Load the disc storing MP3, WMA, JPEG or DivX®. The Play screen will appear.



- 2 The MP3, WMA, JPEG and DivX® files and folders stored in the disc are displayed on the Play screen.

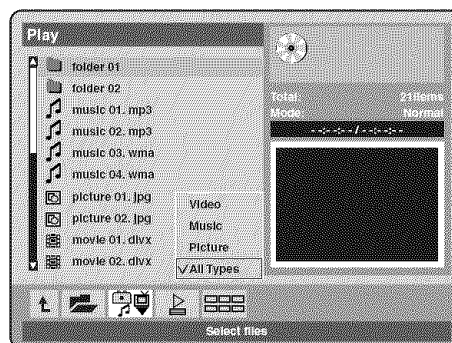
- Select a folder and press ◀ or ▶ to select (Open Folder) and press **ENTER**. The files in the folder appear.

To return to the parent directory, select ".." in the top of the file list, and press **ENTER**.

When the file to be displayed is selected

You can select the file types to be displayed on the Play screen.

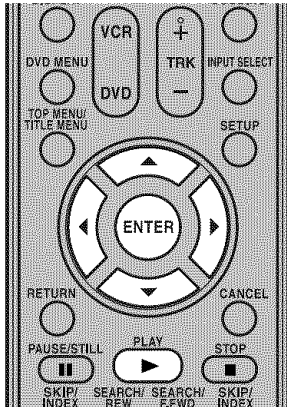
- 1 Press ◀ or ▶ to select (Select Files) and press **ENTER**. The following list will appear.



- Video:** Only DivX® files appear.
- Music:** Only MP3 and WMA files appear.
- Picture:** Only JPEG files appear.
- All Types:** All files and folders appear.

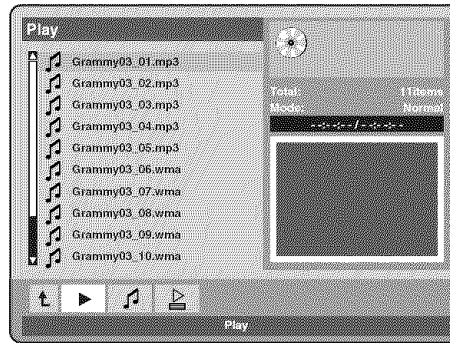
- 2 Select one item in the above list and press **ENTER**. The display will be changed to the selected display type.

MP3/WMA/JPEG/DivX® playback



Playing back MP3/WMA files

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



Disc 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.

2 Press **PLAY**.
Or press ◀ or ▶ to select ▶ (Play), then press **ENTER**.
The selected MP3/WMA file is played back.



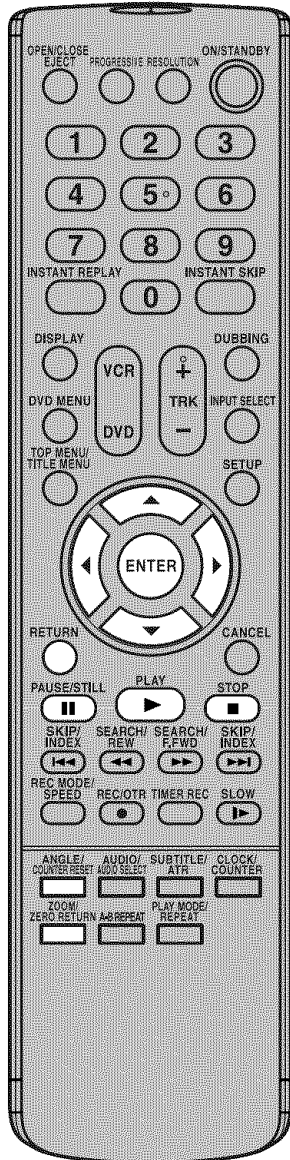
NOTE:

“Play once”, “Shuffle”, “Repeat one”, “Repeat all” and “Shuffle Repeat” are also available for MP3/WMA playback. See page 38 and 39.

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/DivX® playback



JPEG CD

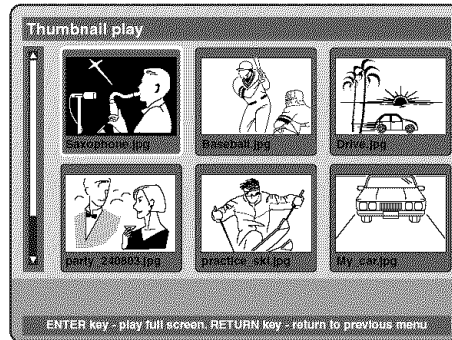
JPEG files must have the extension letters “.jpe”, “.jpeg” or “.jpg”.

JPEG slide show

Preparation:

Set “JPEG Interval” to “5 sec”, “10 sec.” or “15 sec.” (See page 28.)

- 1 Press ◀ or ▶ to select (Thumbnail play), then press **ENTER**. The Play screen changes to Thumbnail play screen. And JPEG files stored in the current directory are displayed.



- 2 Press ▲, ▼, ◀ or ▶ to select a JPEG file.
- 3 Press **PLAY**. JPEG slide show is started from the selected file.
 - Press **PAUSE/STILL** to pause the slide show. Press **PLAY** to continue.
 - Press **ZOOM** to enlarge the displayed image.
 - Press **ANGLE** to rotate the image by 90 degrees each time.
- 4 Press **STOP** or **RETURN** to stop the slide show and return to the thumbnail list.

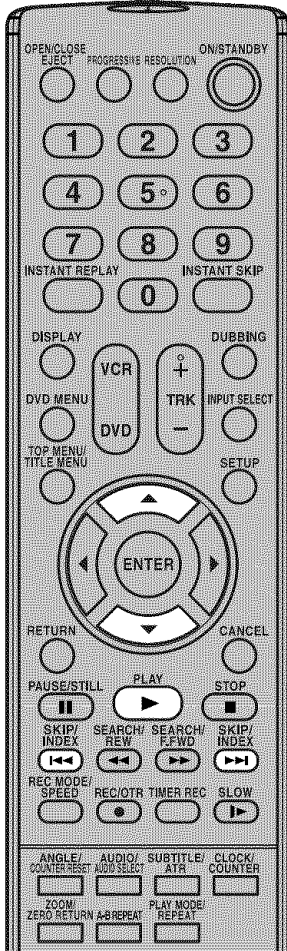
To display a JPEG file each one

- 1 Carry out the way **a** or **b** listed below.
 - a: Set “JPEG Interval” to “Off” (See page 28.)
 - b: Press ◀ or ▶ to select (Play mode), then press **ENTER**. Press ▲ or ▼ to select “Play once”, then press **ENTER**.
- 2 Select a JPEG file in Play screen or Thumbnail play screen.
- 3 Press **PLAY**. The selected JPEG file is displayed on full screen permanently.
- 4 Press **STOP** or **RETURN** to stop displaying.

NOTE:

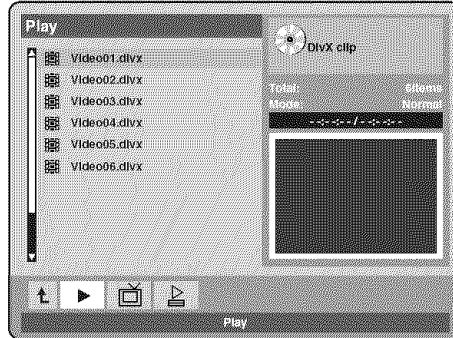
“Play once”, “Shuffle”, “Repeat one”, “Repeat all” and “Shuffle Repeat” are also available for JPEG slide show. See page 38 and 39.

MP3/WMA/JPEG/DivX® playback



Playing back DivX® video files

- 1 Press ▲ or ▼ to select a DivX® file.
 - Preview window shows movie in small size.

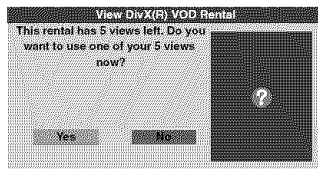


- 2 Press **PLAY**.
Selected DivX® file is played back.

NOTE:

- You can use Fast forward, Review, Still, Frame advance, **SKIP** ◀◀/▶▶, and Slow motion playback (See page 32).
- “Play once”, “Shuffle”, “Repeat one”, “Repeat all” and “Shuffle Repeat” are also available for playing back DivX® files. See page 38 and 39.

When you attempt to play DivX® VOD, the number of plays is limited and the following message will appear on the screen. If you wish to play it, select “YES”.



- If the number of plays goes over the limit or incorrect DRM file is loaded, then “Rental Expired” will be displayed, in which case the file will not be played.

DivX® video specifications

- DivX® file must have the extension letters “.avi” “.div” or “.divx”
 - DivX® version: DivX® 3, 4, 5, and 6 (specifically 3.1.1, 4.1.2, 5.0.2, 5.0.5, 5.1.1, 5.2.1, 6.0 at Home Theater profile).
- Audio format:
MPEG1 Layer2 (MP2), MPEG1 Layer3(MP3)
Bit rate: 8kbps - 320kbps
Sampling frequencies: 32kHz, 44.1kHz, 48kHz
Resolution: Max 720 x 576 (at 25fps)
Max 720 x 480 (at 30fps)

NOTE:

It may take awhile to start to play DivX® video. Please wait until picture appears on screen.

Disc playback

Loading and unloading a cassette tape



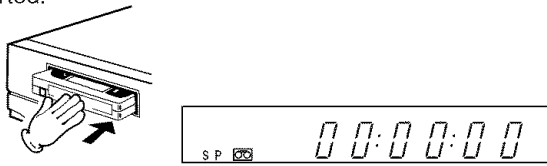
Use only video cassette tapes marked **VHS** and **S-VHS**.

SQPB

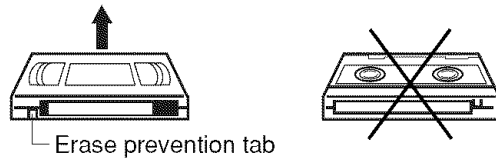
- Cassettes marked "VHS" (or "S-VHS") can be used with this video cassette recorder. However, S-VHS recording is not possible with this unit.
- This unit is equipped with SQPB (S-VHS QUASI PLAYBACK) that makes it possible to playback S-VHS recordings with regular VHS resolution.
- HQ VHS is compatible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

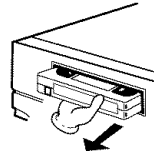
Unloading

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.

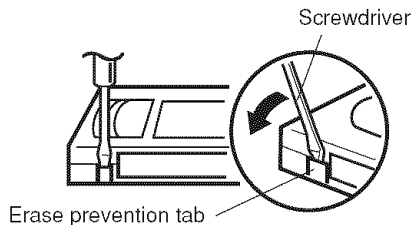


Automatic tape eject

This unit 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.

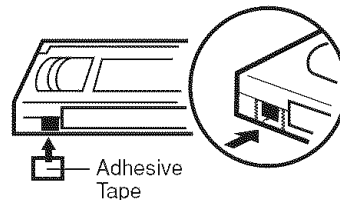
To prevent accidental erasure

Remove the erase prevention tab with a screwdriver.



To record again

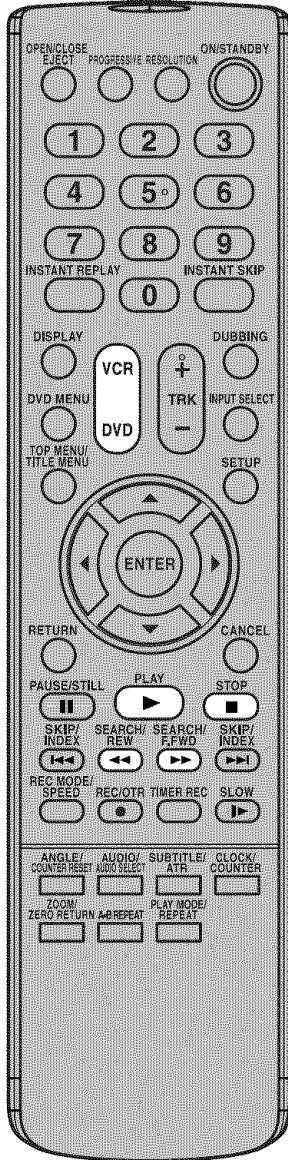
Cover the hole with a piece of adhesive tape.



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

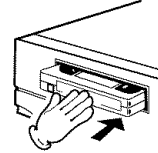
Cassette tape playback



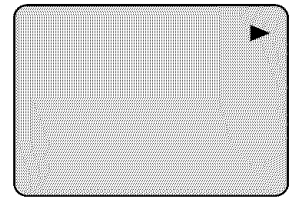
Preparation:

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

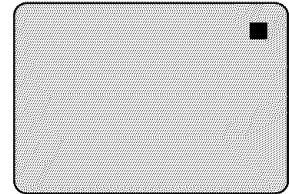
1 Load a pre-recorded tape
(When loading a cassette tape without the erase prevention tab, playback will start automatically).



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



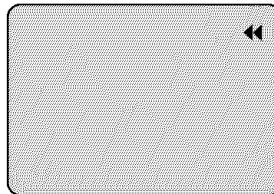
To stop playback
Press **STOP** once.
The tape will stop but remain fully loaded and ready to play.
“■” will appear on the screen for about 4 seconds.



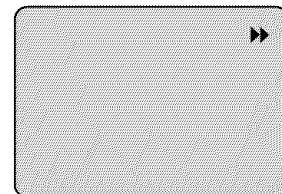
Tape playback

To rewind the tape or forward it rapidly
Press **STOP**.

To rewind the tape:
Press **REW**.



To forward the tape:
Press **F.FWD**.



NOTES:

- This unit selects the playback tape speed SP, LP or SLP automatically.
- It is impossible to switch to the VCR mode during DVD playback.

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 page 46). 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/STILL** during playback.
To resume normal playback: Press **PLAY** or **PAUSE/STILL**.

Slow motion

During playback, press **SLOW**.
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 +/-** to reduce the noise bars.
If the still picture jitters excessively, press **TRK +/-** to stabilize the still picture.

Frame by frame picture

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

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 +/-** to eliminate the noises. "MANUAL TR." will appear. Press it briefly for a fine adjustment, or press and hold for a coarse adjustment.
• Press **ATR** to reactivate automatic tracking again. "AUTO TR." will appear.

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 normal 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 VCR playback.

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



3 When "REPEAT ON" is selected, the tape is played back to the end, and then it is automatically rewound to the starting point and played back again. The display "REPEAT ON" goes off in 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.

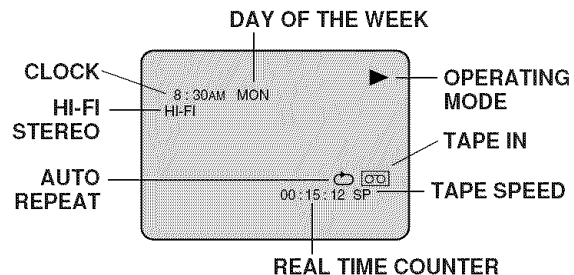
Audio output selection

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

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

To display VCR operation status

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



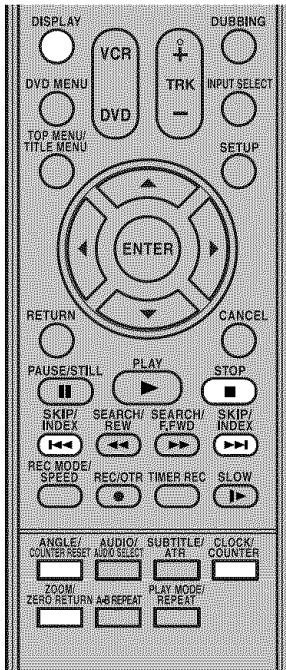
To cancel the display:

Press **DISPLAY** until all indicators disappear.

ZERO RETURN function / Video index search system



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



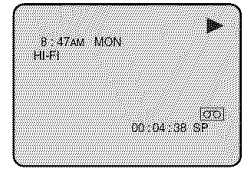
NOTES for Counter Display:

- 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.

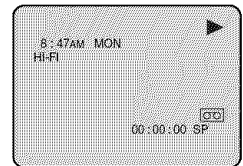
NOTES for Video index search system:

- 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.



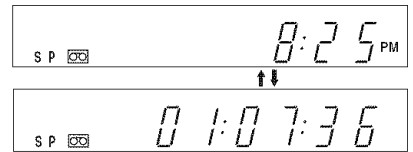
2 Press **COUNTER RESET** at the desired tape position. The counter display will be reset to the "00:00:00" position (e.g. the beginning of recording).



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 window.



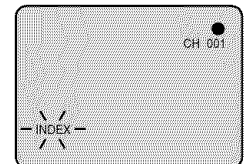
Tape playback

Video index search system

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

Recording an INDEX MARK

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



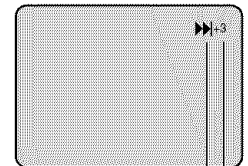
Index search

Press **INDEX** **▶▶▶** or **◀◀◀** during stop or play mode.

For Succeeding programs: Press **INDEX** **▶▶▶**.
For Preceding programs: Press **INDEX** **◀◀◀**.
(Additional press increases the INDEX NO. up to 9.)

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

To stop the Index Search, press **STOP**.



▶▶▶ or ◀◀◀ is displayed
INDEX NO. (up to 9)

Read this before recording on disc

This section explains what you must know to record onto a disc. Read it before attempting to record.

NOTE:

Should a power failure occur or the AC cord plug be disconnected while recording, editing, initializing, finalizing or any other function, the program being recorded will be lost or the disc may not be playable. Manufacturer cannot guarantee against loss of program or disc should this occur. To start recording again, re-format the disc or use a new disc and follow the instruction on recording.

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.

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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Types of disc

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

DVD-RAM/-RW (VR mode)

- This mode involves multiple editing functions.

DVD-RW/-R (Video mode), DVD+RW/+R

- Simple editing (renaming titles).

For more information on recording format, see "Recording format" (see page 11).

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.

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 31.)

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 "Unfinalize" on page 24.)
- Erasing unnecessary title frees up available space on the disc. (Titles can be erased from finalized discs by first undoing the finalization. See "Unfinalize" on page 24.)

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 can recorded title be overwritten.
- Titles cannot be erased nor can recorded titles be overwritten.

Read this before recording on disc

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NOTE:

This unit does not support VCPS. Copy Once programs cannot be recorded to DVD+RW/+R disc.

Images that cannot be recorded

Some DVD-Video and broadcasts contain copy-restriction signals to protect copyrights. There are 3 types of copy-restriction signals: "Copy Free", "Copy Never" and "Copy Once".

"Copy Free" (unrestricted recording)

Land-based TV broadcasts and images you record yourself with a video camera allow unrestricted recording. There are no restrictions on recording.

"Copy Never" (recording prohibited)

- Images that contain the recording prohibited signal cannot be recorded.
- If the recording prohibited signal appears halfway through an image you are recording, recording is paused at that instant. When the recording prohibited signal ends, recording resumes.
- This unit incorporates a built-in copy guard. It cannot record software or broadcasted programs that contain copy restriction signals designed to protect copyright, etc.

"Copy Once" (one-time recordable)

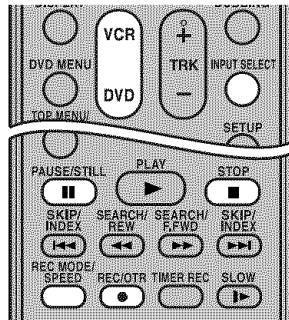
Programs (images) that contain the one-time recordable signal can be recorded only in the VR mode using a DVD-RW disc that supports CPRM Ver. 1.1 and Ver 1.2.

Recording

Recording a TV program



You can record programs you watch on TV onto video tapes or DVDs.



NOTES:

- When recording onto a DVD, it takes some time from when you press **REC/OTR** until recording actually starts. Press **REC/OTR** slightly earlier before the preferred starting point. With a video tape, recording starts almost at the same time as you press **REC/OTR**.
- If the erase prevention tab of video tapes is removed, the tape will eject when **REC/OTR** is pressed for recording.

Auto Rewind feature

This unit will automatically rewind the tape when the tape has ended (except during OTR and TIMER REC). It will also eject the tape.

NOTES:

- If the disc space become full, the recording is stopped and "Disc is Full" will appear on the screen.
- In the event of a power failure during DVD recording including OTR and TIMER REC, the program can not be recorded on the disc. When the power resumes, after the VCR/DVD is turned on, the set checks the disc to repair the error which is caused by a power failure. This checking process may require a few minutes to about 1 hour according to disc condition.

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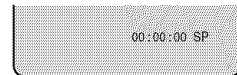
50

Preparation:

- Connect the AUDIO (L/R)/VIDEO IN jacks on the rear panel (INPUT 1) to the AUDIO (L/R)/VIDEO OUT jacks of the Cable/Satellite box.
- Turn ON the TV and set it to the video input mode.
- Load a recordable DVD or video tape into the unit.
- Press **DVD** or **VCR** to select the appropriate mode.

- Press **REC MODE/SPEED** to select the recording mode. The recording mode will appear on the TV monitor and change every time **REC MODE/SPEED** is pressed.
VCR recording modes: SP/SLP
DVD recording modes: XP/SP/LP/SLP

VCR mode



DVD mode



SP is the normal recording mode for video tapes. SLP offers 3 times the recording time as SP. For more information on DVD recording modes, see page 48.

- Press **INPUT SELECT** to select "LINE1" input position. L1" will appear on the display.
 - To record from AUDIO (L/R)/VIDEO IN jacks on the front panel (INPUT2), select "LINE2" (L2).
 - L1: AUDIO (L/R)/VIDEO IN on the rear panel (INPUT1)
 - L1(S): AUDIO (L/R)/S-VIDEO IN on the rear panel (INPUT1)
 - L2: AUDIO (L/R)/VIDEO IN on the front panel (INPUT2)
 - L2(S): AUDIO (L/R)/S-VIDEO IN input on the front panel (INPUT2)
 - DV: DV IN on the front panel (see page 69)
 Confirm whether the input source that you used is appeared on the display window.



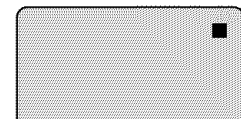
- Select the channel you wish to record on your cable/satellite box.

- Press **REC/OTR**. "●" appears on the screen for about 4 seconds and recording will start.



To stop recording

- Press **STOP** to stop recording. "■" will appear on the screen for about 4 seconds.



NOTE:

When recording onto a DVD, even if **STOP** is pressed during recording, recording does not stop instantly. Recording may continue for as long as 1 minute.

To stop recording temporarily

- Press **PAUSE/STILL** to avoid recording unwanted material. "●||" will appear on screen for about 4 seconds. Press again to resume recording.



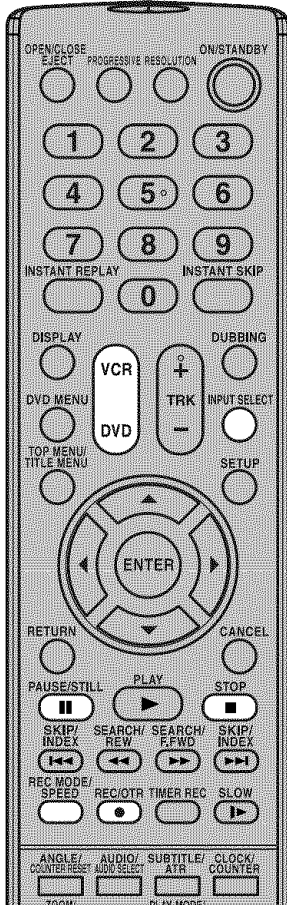
NOTES:

- In video recording, the pause function will be released after 5 minutes to prevent damaging the video tape. The unit will change to the STOP mode.
- When recording onto a video tape, you can select a recording channel in the recording pause mode. (You cannot change a recording

One-touch Timer Recording (OTR)



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

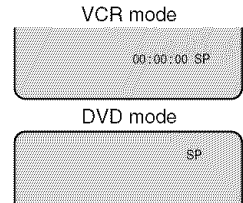


Preparation:

- Connect the AUDIO (L/R)/VIDEO IN jacks on the rear panel (INPUT 1) to the AUDIO (L/R)/VIDEO OUT jacks of the Cable/Satellite box.
- Turn ON the TV and set to the video input mode.
- Load a recordable DVD or video tape into the unit.
- Press **DVD** or **VCR** to select the appropriate mode.

Example: One-touch Timer Recording for 30 minutes.

- 1 Press **REC MODE/SPEED** to select the recording mode.
For the recording mode, see step 1 on page 50.



- 2 Press **INPUT SELECT** to select "LINE1" input position.
L1" will appear on the display.

- To record from AUDIO (L/R)/VIDEO IN jacks on the front panel (INPUT2), select "LINE2" (L2).
L1: AUDIO (L/R)/VIDEO IN on the rear panel (INPUT1)
L1(S): AUDIO (L/R)/S-VIDEO IN on the rear panel (INPUT1)
L2: AUDIO (L/R)/VIDEO IN on the front panel (INPUT2)
L2(S): AUDIO (L/R)/S-VIDEO IN input on the front panel (INPUT2)



Recording

Confirm whether the input source that you used is appeared on the display window.

- 3 Select the channel you wish to record on your cable/satellite box.

- 4 Press **REC/OTR**. Each additional press of **REC/OTR** will increase recording time as shown in the chart below, up to a maximum of 6 hours. The OTR and recording time will appear on the screen for about 4 seconds.

Press	Recording time	Press	Recording time
once	Normal REC	9 times	OTR: 240 min.
twice	OTR: 30 min.	10 times	OTR: 270 min.
3 times	OTR: 60 min.	11 times	OTR: 300 min.
4 times	OTR: 90 min.	12 times	OTR: 330 min.
5 times	OTR: 120 min.	13 times	OTR: 360 min.
6 times	OTR: 150 min.	14 times	OTR: Off (Normal REC)
7 times	OTR: 180 min.		
8 times	OTR: 210 min.		



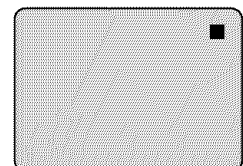
NOTE:

If you wish to watch the DVD playback during the VCR OTR, press **DVD** to change to DVD mode and perform the DVD playback. You can also playback the VCR during DVD OTR.

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To cancel OTR

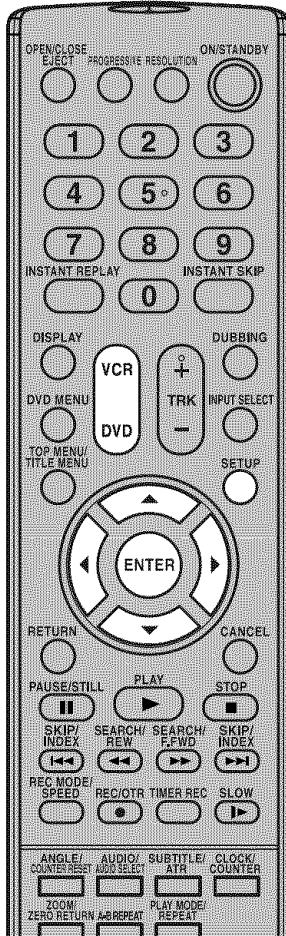
Press **STOP** or turn off the power.
"■" will appear on screen for about 4 seconds.



Timer recording



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.



NOTE:

If a recordable tape is not inserted or no disc space is available, the timer record indicator "⏏" flashes. Replace the tape or disc to allow recording.

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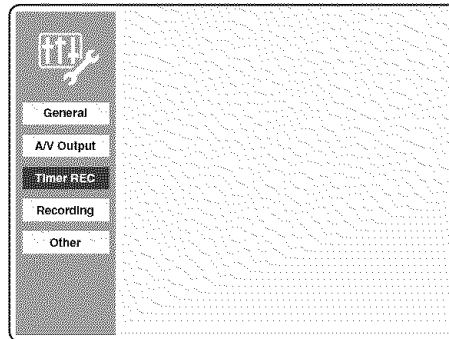
Setting timer recording

Preparation:

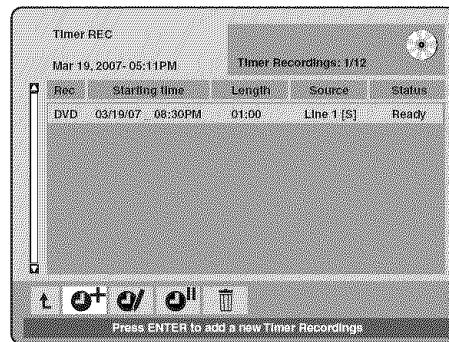
- Connect the AUDIO (L/R)/VIDEO IN jacks on the rear panel (INPUT 1) to the AUDIO (L/R)/VIDEO OUT jacks of the Cable/Satellite box.
- Turn ON the TV and set to the video input mode.
- Load a recordable DVD or video tape.
- Confirm that the clock is indicating the correct time.

Example: Set the recording mode to LP; the TV program from Cable/Satellite box connected to L1 starting at 8:00 PM and stopping at 9:30 PM on a date of 20th. Recording to DVD.

- 1 Press **SETUP**.
The SETUP MENU screen appears. Press **▲** or **▼** to select "Timer REC" and press **ENTER**.

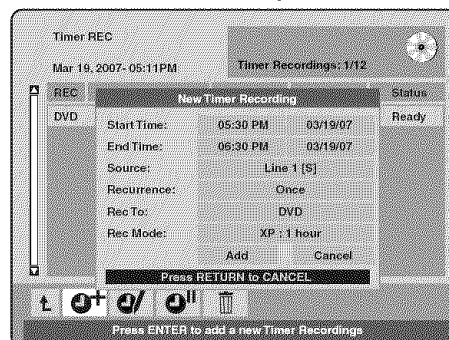


- 2 The Timer REC screen will appear.

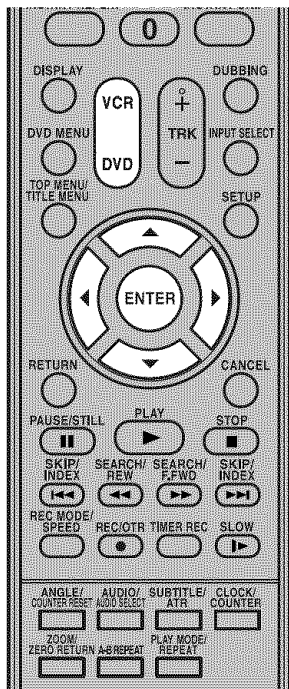


- When there is no timer program, New Timer Recording screen below will appear automatically.

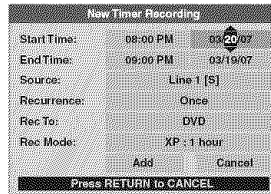
- 3 Press **◀** or **▶** to select **+** and press **ENTER**.
The New Timer Recording screen will appear.



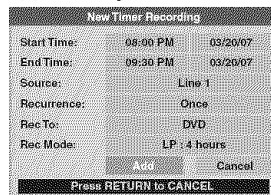
Timer recording



- Press **▲** or **▼** to select time of "Start Time", and press **ENTER**. Press **◀** or **▶** to select hour, minute or AM/PM. and press **▲** or **▼** to change value. Press **ENTER**. Press **▼** to select date of "Start Time", and press **ENTER**. Press **◀** or **▶** to select month, date or year, and press **▲** or **▼** to change value. Press **ENTER**.



- Set time and date of "End Time" as way of step 4, and press **ENTER**.
- Press **▲** or **▼** to select "Source", and press **ENTER**. Press **▲** or **▼** to select an input, and press **ENTER**.
L1: AUDIO (L/R)/VIDEO IN on the rear panel (INPUT1)
L1(S): AUDIO (L/R)/S-VIDEO IN on the rear panel (INPUT1)
L2: AUDIO (L/R)/VIDEO IN on the front panel (INPUT2)
L2(S): AUDIO (L/R)/S-VIDEO IN on the front panel (INPUT2)
- Press **▲** or **▼** to select "Recurrence", and press **ENTER**. Press **▲** or **▼** to select a type of recurrence, and press **ENTER**.
- Press **▲** or **▼** to select "Rec to", and press **ENTER**. Press **▲** or **▼** to select "DVD" or "VCR" which you use to record. Press **ENTER**.
- Press **▲** or **▼** to select "Rec Mode", and press **ENTER**. Press **▲** or **▼** to select recording mode, and press **ENTER**.
- Press **▲** or **▼** to select "Add", and press **ENTER**. The timer program is determined and the Timer REC screen appears again.



- When you enter the other program for the timer recording, repeat the steps 3 to 10.
- Press **SETUP**. The Timer REC screen disappears and the display will return to the normal screen.
- Press **TIMER REC**. The timer indicator "**□**" will appear on the display and the unit stands by for recording.

NOTES:

- If you select timer recording on a specified date only one time, select "Once" in the "Recurrence" for recording. You can record same days of every week or from Monday to Friday using the item "Recurrence". The items you can select are as follows:
Once: Recording on the selected date
Daily: Recording everyday at the same time
Weekly: Recording same day of the week.
(Select the day of the week from "Start Time" or "End Time")
Mon-Fri: Recording from Mon. to Fri.
Mon-Sat: Recording from Mon. to Sat.
- The starting and stopping times for the recording are displayed on the 12-hour (am/pm) clock. Twelve o'clock midnight is displayed as "12:00AM", whereas twelve o'clock noon is displayed as "12:00PM".

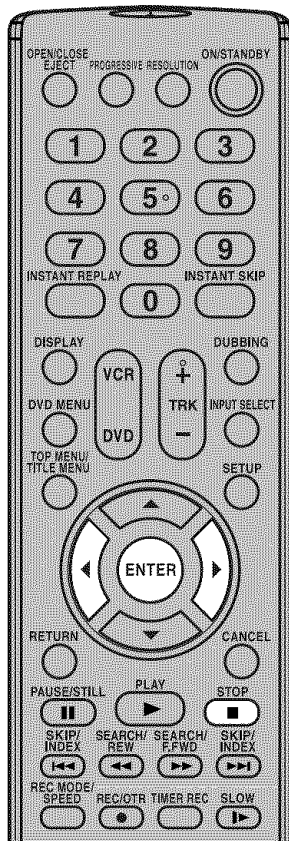
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NOTES:

- Past time cannot be set at the "Start Time".
- There is the limitations of the timer programming for the duration of recording depending on the recording mode.
DVD: XP : less than 1 hour
SP : less than 2 hours
LP : less than 4 hours
SLP : less than 6 hours
VCR : less than 24 hours

Recording

Timer recording



NOTES:

- Recording starts a few seconds before the preset starting time.
- You cannot use the timer recording for the both DVD and VCR at the same time.
- You can playback the DVD during the VCR timer recording, and you can playback the VCR during the DVD timer recording.
- The timer recording program is stopped during timer recording, the stopped program is not erased from the timer recording list. In this case, please cancel the program, otherwise the stopped program will be activated if the unit returns to timer recording standby mode.

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Stopping the timer recording

After the timer recording has started, you can cancel the timer recording (but continue recording), or stop recording completely if you want. To cancel the timer recording, press and hold **TIMER REC** for more than 2 seconds. The timer indicator "□" disappears from the display and recording continues. Press **STOP** to stop recording completely.

Checking or changing the timer recording

When you want to check the selected timer recording, follow the steps 1 and 2 of "Setting timer recording" on page 52 and display the Timer REC screen.

To change the timer recording, select the program to be changed and press ◀ or ▶ to select and press **ENTER**. The changing method is the same as recording a program for the first time.

To suspend the timer recording

You can suspend the program.

Select a program you want to suspend. Press ◀ or ▶ to select and press **ENTER**. The selected program is suspended. Press **ENTER** again to change the program is ready.

Cancelling the timer recording

Display the Timer REC screen.

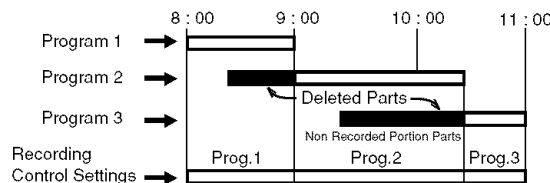
Select the program you want to cancel and press ◀ or ▶ to select and press **ENTER**, then the selected program will be erased from the timer recording list.

In case Timer programs-overlap

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

In this case, the next recording time is delayed a maximum of about 1 minute.

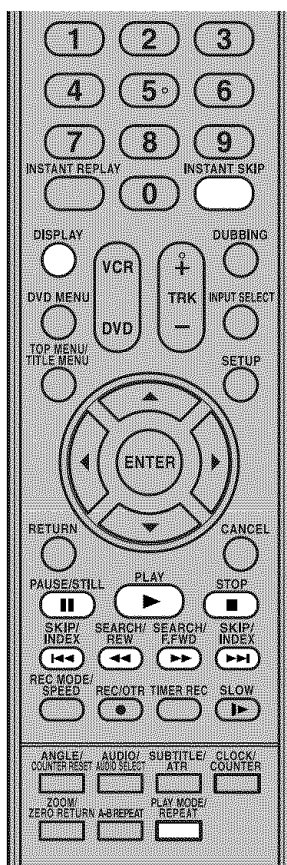
If you set up many timer recording programs at the same start time, the priority will be the top program in the timer recording list.



Chase Playback



You can begin 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 begin playback.



NOTES:

- Chase playback is not available when recording a DVD-RW/R disc, DVD+RW/R disc and video tape.
- Chase playback is not available when recording in XP mode.
- Instant skip, A-B repeat, and Zoom will not work during chase playback.
- Chase playback does not work until 30 seconds of recording have elapsed.
- If you press **DISPLAY** during chase playback, the information screen is displayed (see page 31).

1 While recording a program onto the DVD-RAM disc, press **PLAY** to start chase playback. The program as it is being recorded will playback.

2 Locate a scene you want through the following operations if necessary.

Fast forward/Review playback:

Press **SEARCH** ◀◀/▶▶. Every press **SEARCH**, it switches the speed of the search.

- To resume chase playback, press **PLAY**.
- If the playback position catches up to within about 60 seconds, chase playback resumes. It may differ depending on the recording condition and search speed.

Still playback:

Press **PAUSE/STILL**.

- To resume chase 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 "▶ x 1/2", "▶ x 1/4" and "▶ x 1/8".

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

Locating a chapter:

Press **SKIP** ◀◀/▶▶ to locate a chapter that you want to watch.

- If you press **SKIP** ▶▶ while playing back the newest chapter, it starts playing back from about 15 seconds before the recording position.

Locating a specific scene:

Press **PLAY MODE** enables you to do a Time Search or a Chapter Search. (See page 34.)

Instant replay

Press **INSTANT REPLAY** during playback.

The video returns to a point 10 seconds before and playback resumes.

3 Press **STOP** to end chase playback. If you press **STOP** again, the recording stops.

Recording

Editing the disc

This section explains how to edit the recorded contents on DVDs. However, the items that you can edit vary with the recording DVDs. On DVD-RAM and DVD-RW (VR mode), you can edit various title menus, whereas on the other discs, you can edit only a few items.

Title List

When the content is recorded, a title name that includes the date, time, channel number and other information is created automatically. The Title List can be used when you playback after confirming the contents (see page 30), or when you check the contents recorded on the disc.

Title

The titles will be added with every recording. In VR mode, you can do various editing operations i.e., you can rename the titles or add the chapter marks. In addition, you can erase the unnecessary titles to increase the disc space.

Editable items

The items can be edited in each disc as follows:

Disc and recording mode Editing items	DVD-RAM	DVD-RW		DVD-R	DVD+RW	DVD+R
		VR	Video			
Adding chapter mark	<input type="radio"/>	<input type="radio"/>	-	-	-	-
Erasing chapter	<input type="radio"/>	<input type="radio"/>	-	-	-	-
Combining chapters	<input type="radio"/>	<input type="radio"/>	-	-	-	-
Selecting thumbnail picture	<input type="radio"/>	<input type="radio"/>	-	-	-	-
Changing title name	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Erasing title	<input type="radio"/>	<input type="radio"/>	-	-	<input type="radio"/>	-
Changing disc name	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

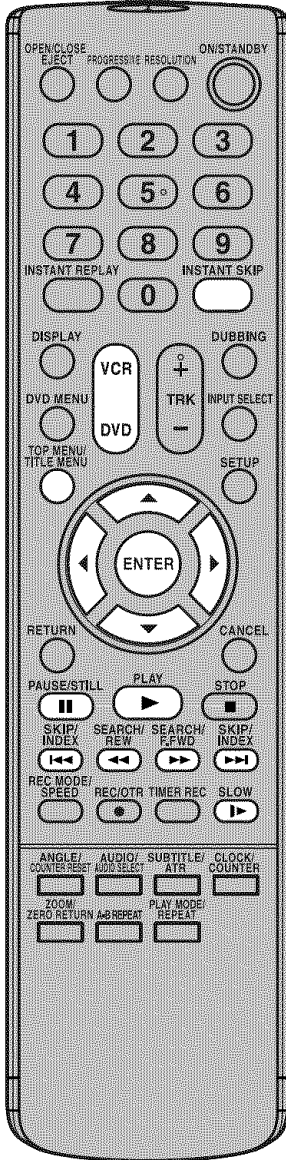
If you finalize the disc in Video mode, the Title List is automatically changed. The recording information will not appear in the Title List after finalizing.

Using these editing functions to modify copyrighted content for any purpose other than your private viewing may be prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

NOTES:

- This unit cannot record or edit a disc which was recorded or edited using another DVD recorder.
- You cannot edit or record the disc on which disc protection is set. In such a case, be sure to cancel the disc protection before starting the operation.

Adding chapter mark

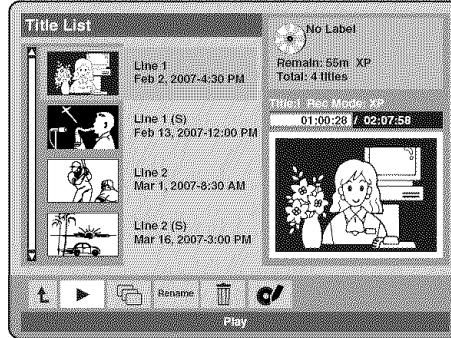


Preparation:

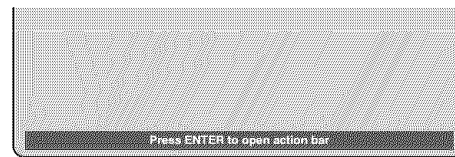
- Turn ON the TV and set to the video input mode.
- Load the recorded disc.
- Press **DVD** to select the DVD mode. (The DVD indicator will light.)

You can add a chapter mark to the title. You can add up to 999 chapter marks to one disc.

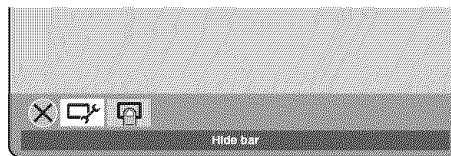
- 1 Press **TITLE MENU** to display the Title List.



- 2 Press **▲** or **▼** to select the title where a chapter mark is added. Press **PLAY**. The message below will appear at the lower of the screen for approx. 5 seconds.



- 3 Press **ENTER**. The screen below will appear on the screen. Press **◀** or **▶** to select (Add chapter mark).
 - To return to the normal screen, press **◀** or **▶** to select (Hide bar), and press **ENTER**.



- 4 Press **ENTER** at the point where you want to add a chapter mark. A new chapter mark is added.
 - Search the scene by using each operation button (**F.FWD**, **REW**, **SKIP◀◀**, **SKIP▶▶**, **PAUSE/STILL**, **SLOW**, **INSTANT SKIP**) for the playback.

- 5 If you want to continue to add chapter mark, repeat step 4.

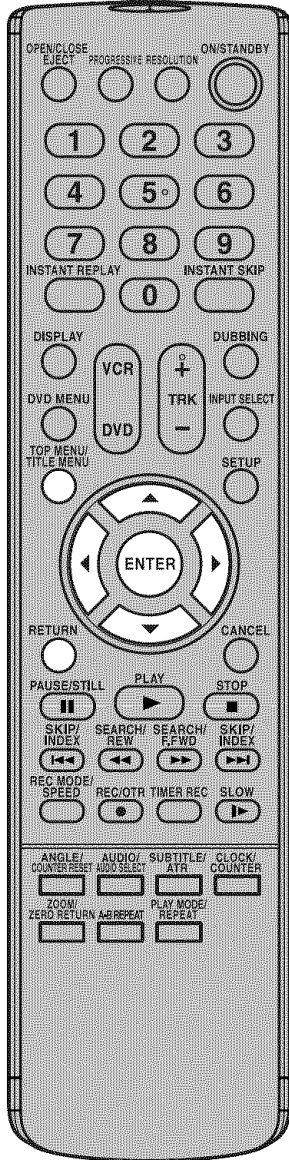
- 6 Adding chapter marks is finished.
 - To display the Title List, press **TITLE MENU**.

Editing the disc


NOTE:

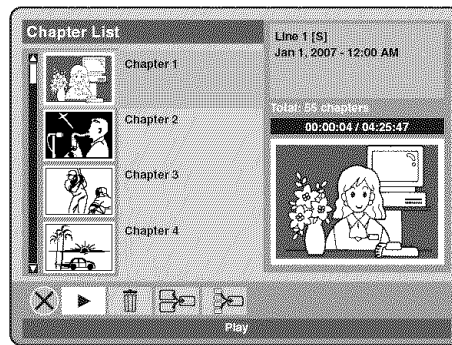
You can automatically add a chapter mark in recording. For more information, see page 27.


Erasing chapter

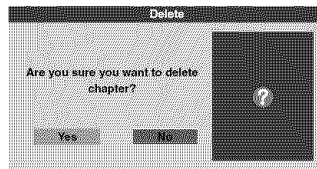



You can erase an unnecessary chapter (scene). Erase the chapter after checking the title. You cannot restore the erased scene. When you erase the scene, you can increase the disc space.

- 1 Press **TITLE MENU** to display the Title List.
- 2 Press **▲** or **▼** to select the title where a chapter is deleted.
- 3 Press **◀** or **▶** to select  (Chapter List), and press **ENTER**. Title List will change to Chapter List of the selected title.

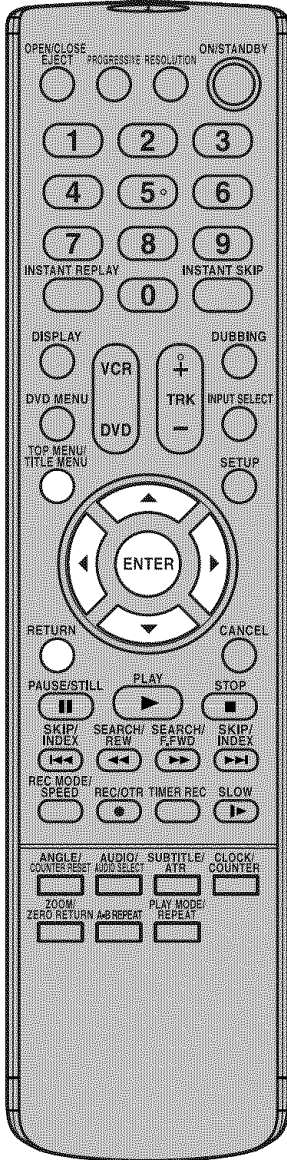


- 4 Press **▲** or **▼** to select chapter which you want to erase.
- 5 Press **◀** or **▶** to select  (Delete), and press **ENTER**. The screen below will appear. Press **◀** or **▶** to select "Yes" and press **ENTER**.



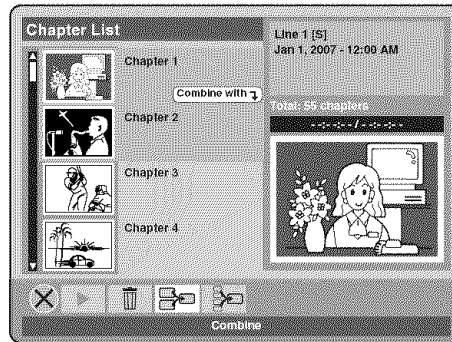
- 6 Selected chapter is deleted.
 - To return to the Title List, press **◀** or **▶** select  (Return) and press **ENTER**, or press **RETURN**.

Combining chapters



The adjacent two chapters can be combined.

- 1 Press **TITLE MENU** to display the Title List.
- 2 Press **▲** or **▼** to select the title where you want to combine the chapters.
- 3 Press **◀** or **▶** to select (Chapter List), and press **ENTER**. Title List will change to Chapter List of the selected title.
- 4 Press **▲** or **▼** to select a chapter.
- 5 Press **◀** or **▶** to select (Combine), the selected chapter and the next chapter is highlighted.



- 6 Press **ENTER**. Two chapters are combined as one chapter.
 - To return to the Title List, press **◀** or **▶** select (Return) and press **ENTER**, or press **RETURN**.

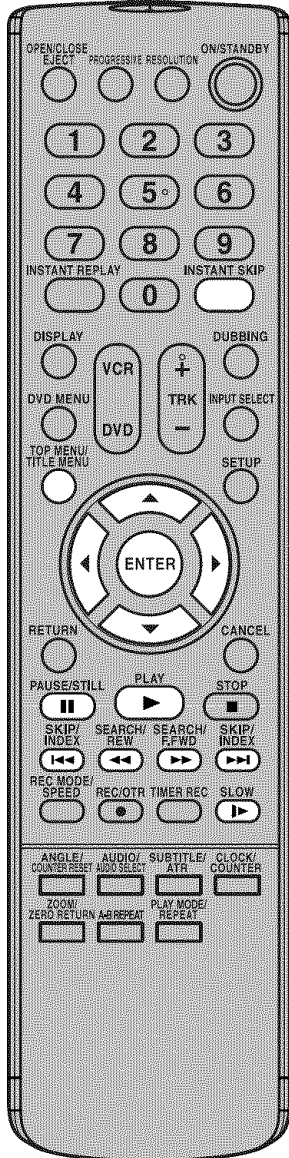
To combine the all chapters:

All chapters in the title can be combined as one chapter.

- 1 After step 3 above, press **◀** or **▶** to select (Combine All).
- 2 Press **ENTER**. The all chapter are combined as one chapter.
 - To return to the Title List, press **◀** or **▶** select (Return) and press **ENTER**, or press **RETURN**.

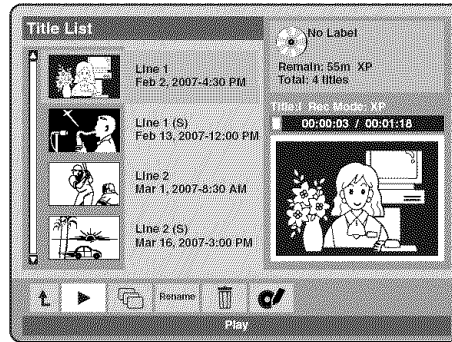
Editing the disc

Selecting thumbnail picture



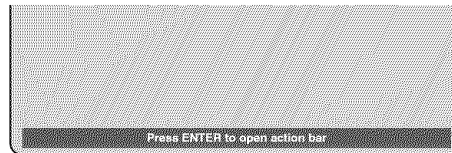
You can change the thumbnail picture.

1 Press **TITLE MENU** to display the Title List.



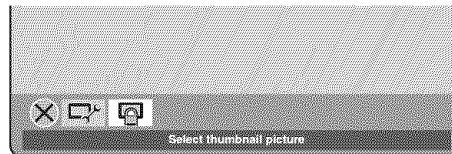
2 Press **▲** or **▼** to select the title where you want to change the thumbnail picture. Press **PLAY**. The message below will appear at the lower of the screen for approx. 5 seconds.

- Playing back must be started through Title List for this operation.



3 Press **ENTER**. The screen below will appear on the screen. Press **◀** or **▶** to select (Select thumbnail picture).

- To return to the normal screen, press **◀** or **▶** to select (Hide bar), and press **ENTER**.

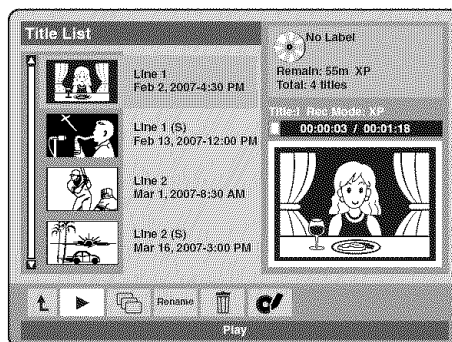


4 Press **ENTER** when your desired scene is appeared.

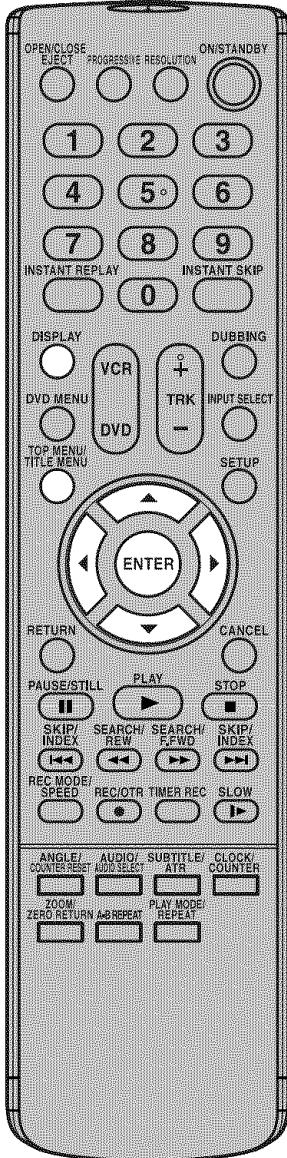
- Search the scene by using each operation button (**FFWD**, **REW**, **SKIP◀◀**, **SKIP▶▶**, **PAUSE/STILL**, **SLOW**, **INSTANT SKIP**) for the playback.

5 A new thumbnail image is registered.

- To display the Title List, press **TITLE MENU**.

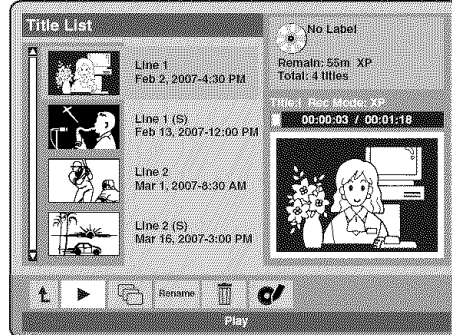


Changing title name



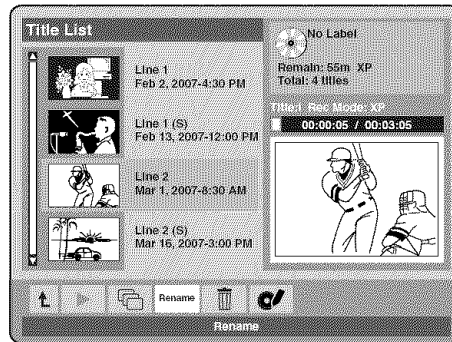
NOTE:
The title name can be a maximum of 28 characters.

1 Press **TITLE MENU** to display the Title List.

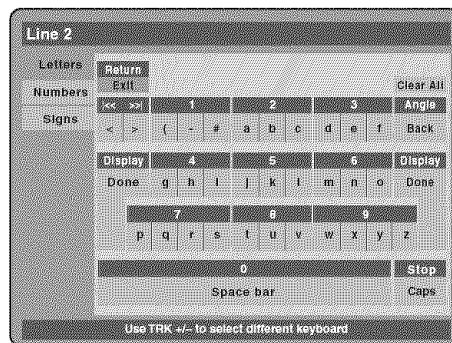


2 Press **▲** or **▼** to select the title which you want to change the title name.

3 Press **◀** or **▶** to select **Rename** (Rename), and press **ENTER**.



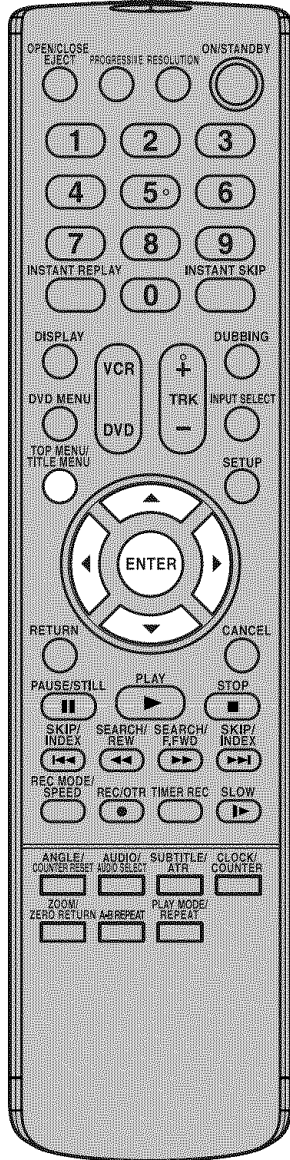
4 The keyboard screen will appear. Use the keyboard screen to enter the title name (see "Using the keyboard screen" on page 64).



5 Press **DISPLAY** to return to the Title List.

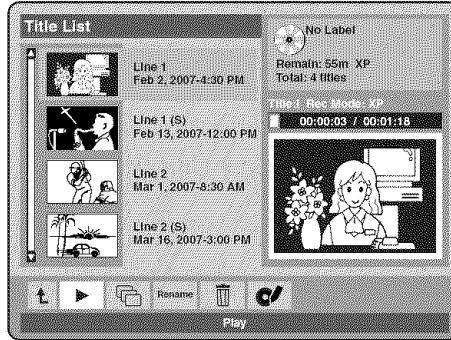
Editing the disc

Erasing title



You can erase the title. The erased title cannot be restored. When you erase the title, you can increase the disc space.

1 Press **TITLE MENU** to display the Title List.



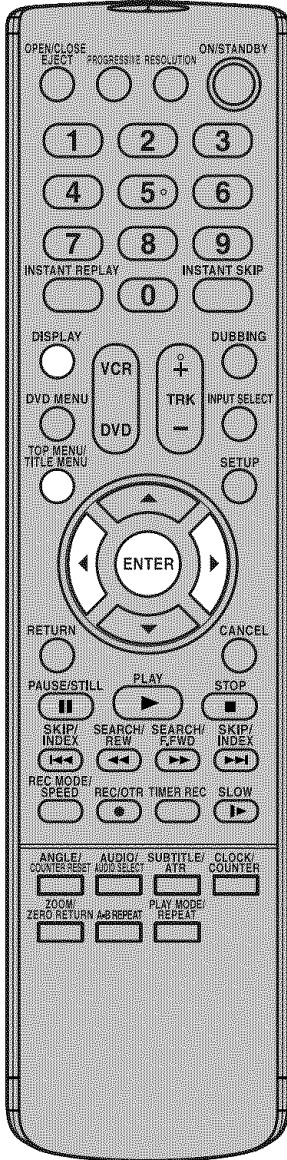
2 Press **▲** or **▼** to select the title which you want to erase.

3 Press **◀** or **▶** to select  (Delete), and press **ENTER**. The screen below will appear. Press **◀** or **▶** to select "Yes" and press **ENTER**.

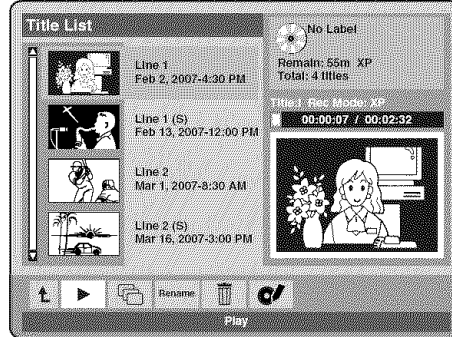


4 Selected title is deleted.

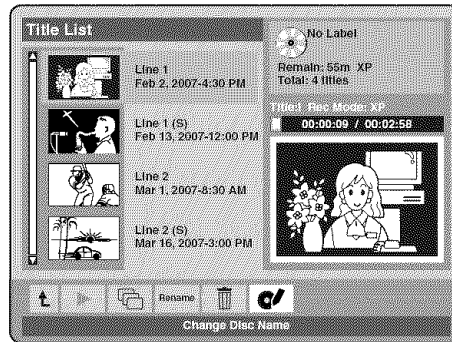
Changing disc name



1 Press **TITLE MENU** to display the Title List.



2 Press **◀** or **▶** to select (Change Disc Name), and press **ENTER**.



3 The keyboard screen will appear. Use the keyboard screen to enter the title name (see “Using the keyboard screen” on page 64).

4 Press **DISPLAY** to return to the Title List.

Editing the disc

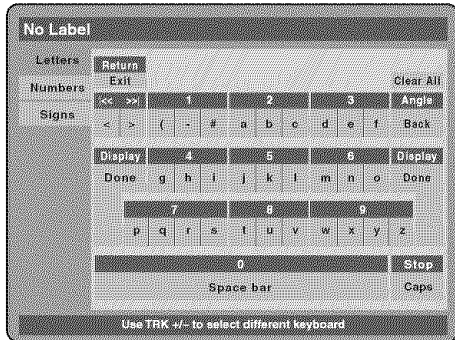
Using the keyboard screen

This section explains the function of the keyboard screen and how to input characters. The disc name and the title name can be changed using the keyboard screen.

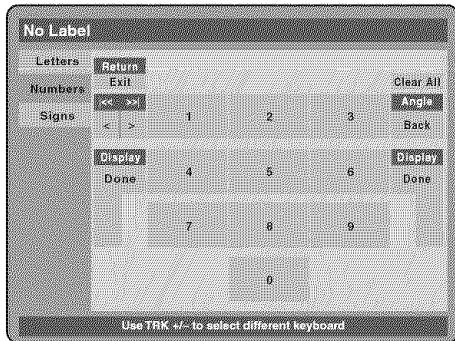
Keyboard screen types

The keyboard screen has three types of "Letters", "Numbers" and "Signs". The type can be switched over by pressing **TRK+/-**.

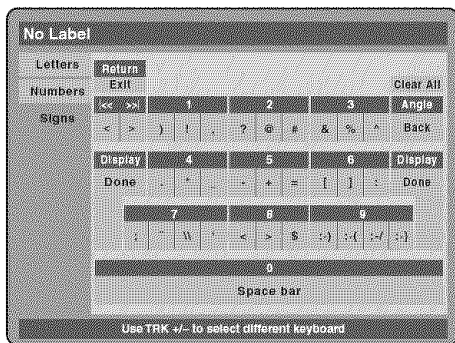
Letters: This is mainly used for inputting alphabetical letters.



Numbers: This is used for inputting numbers.



Signs: This is used for inputting symbols.



Inputting characters

There are two methods for inputting characters.

Character input 1

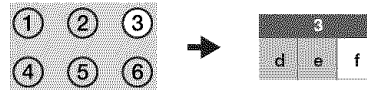
- 1 Press **▲**, **▼**, **◀** or **▶** to select the character to be input.
- 2 Press **ENTER**.
The selected character will be input.

Character input 2

Example: Here explains the procedure when you input "F" and "J".

- 1 Press the **numeric keys** continuously and select the character to be input.

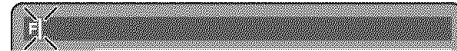
To input F, press **3** three times.



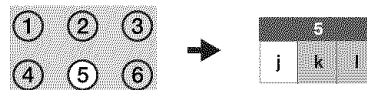
NOTE:

When the interval between the pressing of the **numeric keys** is 2 seconds or more in selecting the input character, the selected character will automatically be input.

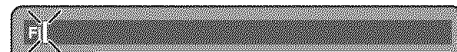
- 2 Press **ENTER**.
The selected character will be input.



- 3 Press the **numeric keys** where the following character is assigned.



- 4 Press **ENTER**.
The selected character will be input.



Using the keyboard screen

Erasing a character

You can erase the input character.

Erasing method 1

- 1 Press **▲**, **▼**, **◀** or **▶** to select "Back".
- 2 Press **ENTER**.
The last input character will be erased.
- 3 To erase the characters continuously, press **ENTER** repeatedly.
The input characters will be erased from the last to the top one by one.

Erasing method 2

- 1 Press **ANGLE**.
The last input character is erased.
- 2 To erase the characters continuously, press **ANGLE** repeatedly.
The input characters will be erased from the last to the top one by one.

Erasing method 3

Use the cursor to select the character and erase it.

- 1 Press **SKIPI◀◀** or **SKIP▶▶** to move the cursor after the character you want to erase.
- 2 Press **ANGLE**.
The character before the cursor position will be erased.

Erasing method 4

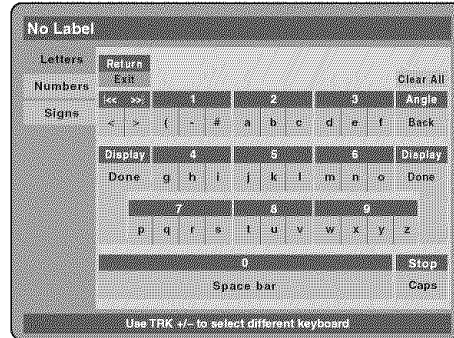
Use the cursor to select the character and erase it.

- 1 Press **▲**, **▼**, **◀** or **▶** to select "Clear All"
- 2 Press **ENTER**.
All character will be erased.

Selecting between uppercase and lowercase letters

You can select either uppercase or lowercase letters when modifying your titles, using the keyboard screen with the "Letters" tab.

- 1 Press **STOP**.
(Or, press **▲**, **▼**, **◀** or **▶** to select "Caps", then press **ENTER**.)



- 2 Press **▲** or **▼** to select the type of letters in the list below and press **ENTER**.

Auto caps: Determines uppercase and lowercase automatically.

Upper: Inputs all with uppercase letters.

Lower: Inputs all with lowercase letters.

Determining a name

To determine the entered disc name and title name, press **DISPLAY**. Or, press **▲**, **▼**, **◀** or **▶** to select "Done", then press **ENTER**.

The keyboard screen disappears and the display will return to the Title List.

The entered title name or disc name are displayed in the Title List.

Cancelling character input function

When you want to cancel the input and changed characters function, press **RETURN**. Or, press **▲**, **▼**, **◀** or **▶** to select "Exit", then press **ENTER**.

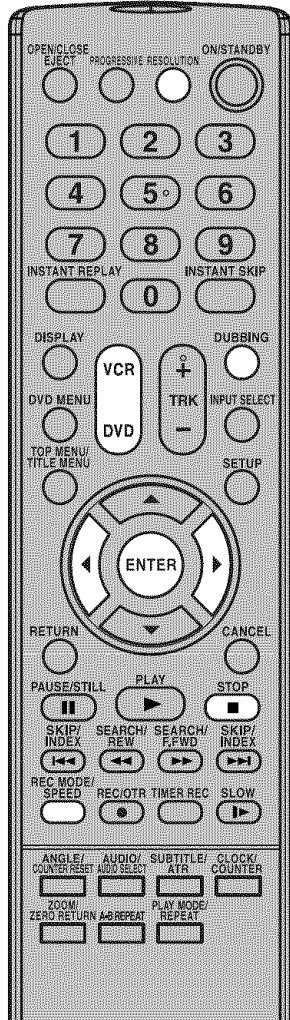
The input and changed characters function are canceled and the Title List will appear.

Editing the disc

Dubbing a tape onto a disc



You can record video or audio on a video tape onto a disc.

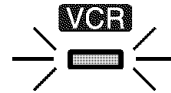


Preparation:

- Turn ON the TV and set to the video input mode.
- Load a source video tape and a disc for recording.
- Remove the erase protection tab of the source video tape to prevent the data from accidentally being erased.
- Confirm the disc space before operation.
- Press **RESOLUTION** repeatedly to turn OFF HDMI mode.

- 1 Press **DVD** to set this unit to DVD mode.
The DVD indicator will light.
- 2 Press **REC MODE/SPEED** and select the recording mode.
 - When **REC MODE/SPEED** is pressed each time, “SP”, “LP”, “SLP” or “XP” is selected in this order.
 - The recording mode is indicated on both the TV screen and the display window.
 - For the details of the recording mode, see page 48.

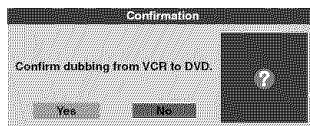
- 3 Press **VCR** and set the unit to VCR mode.



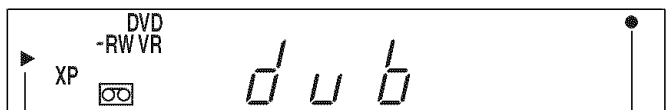
NOTE:

Confirm that the VCR indicator lights.

- 4 Press **DUBBING**.
 - The unit is changed to DVD mode automatically.
 - The VCR is waiting for playback and the DVD is waiting for recording. Then the following message will appear.
- 5 Press **◀** or **▶** to select “Yes” and press **ENTER**.
Dubbing starts.
 - To cancel dubbing, select “No” and press **ENTER**.



During dubbing, VCR playback, DVD recording and “dub” (dubbing) indicator appear on the display window.



Video playback

DVD recording

NOTES:

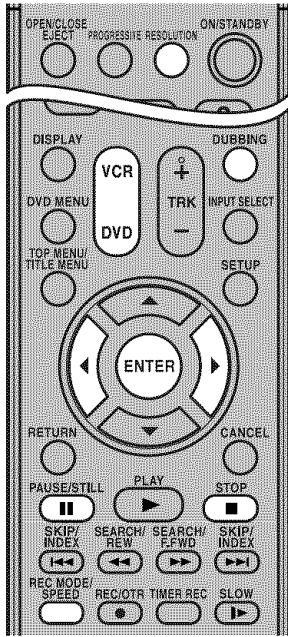
- Dubbing cannot be accomplished when
 - a copy protected tape is used.
 - disc protection is set.
 - disc has no recording space.
- Dubbing stops when
 - the video tape is played back to the end and stops.
 - recording space becomes full.
- The videos recorded from TV programs or movies can be used only for your personal enjoyment without permission of the copyright holder.

- 6 To stop dubbing, press **STOP**.

Dubbing a disc onto a tape



You can record both video and audio from a disc to a video tape. When a disc with a copy guard is used, a distorted image is recorded onto the video tape. DivX® file also can be dubbed onto a video tape.



NOTES:

- Dubbing cannot be accomplished when
 - a copy protected disc is used.
 - the erase prevention tab of video tape is removed.
- Dubbing stops when
 - the disc is played back to the end and stops.
 - no recording space on the Video tape remains
- During dubbing, the unit is changed to interlaced scan mode automatically, if it has been previously set to progressive scan mode.
- If no special permission is obtained from the copyright owner, videos recorded from TV programs or movies can only be used for your own personal enjoyment.

Dubbing only the specified titles

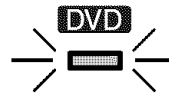
When you want to dub only specific titles recorded on the disc, start the playback of the desired title, and then immediately press **DUBBING**, **STOP** or **PAUSE/STILL**. If you press **DUBBING**, proceed from step 5 above. If you press **STOP** or **PAUSE/STILL**, proceed from step 4 above. The first few seconds of the title may not be recorded. When playback of the title is completed, the dubbing stops.

Preparation:

- Turn ON the TV and set to the video input mode.
- Load a source disc and a video tape for recording.
- Confirm the remaining tape for recording before operation.
- Press **RESOLUTION** repeatedly to turn OFF HDMI mode.

- Press **VCR** to set this unit to VCR mode. The VCR indicator will light.
- Press **REC MODE/SPEED** and select the recording mode.
 - When **REC MODE/SPEED** is pressed each time, "SP" or "SLP" is selected.
 - The recording mode is indicated on both the TV screen and the display window.
 - For the details of the recording mode, see page 44.

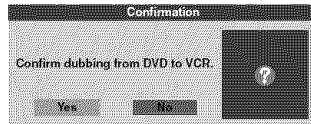
- Press **DVD** and set the unit to DVD mode.



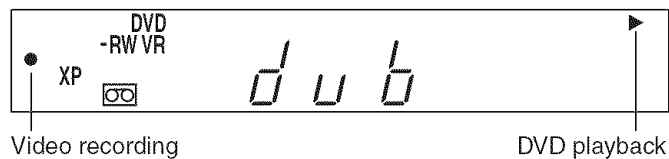
NOTE:

Confirm that the DVD indicator lights.

- Press **DUBBING**.
 - The DVD is waiting for playback and the VCR is waiting for recording. Then the following message appears.
- Press **←** or **→** to select "Yes" and press **ENTER**. Dubbing starts.
 - To cancel dubbing, select "No" and press **ENTER**.



During dubbing, DVD playback, VCR recording and "dub" (dubbing) indicator appear on the display window.



- To stop dubbing, press **STOP**.

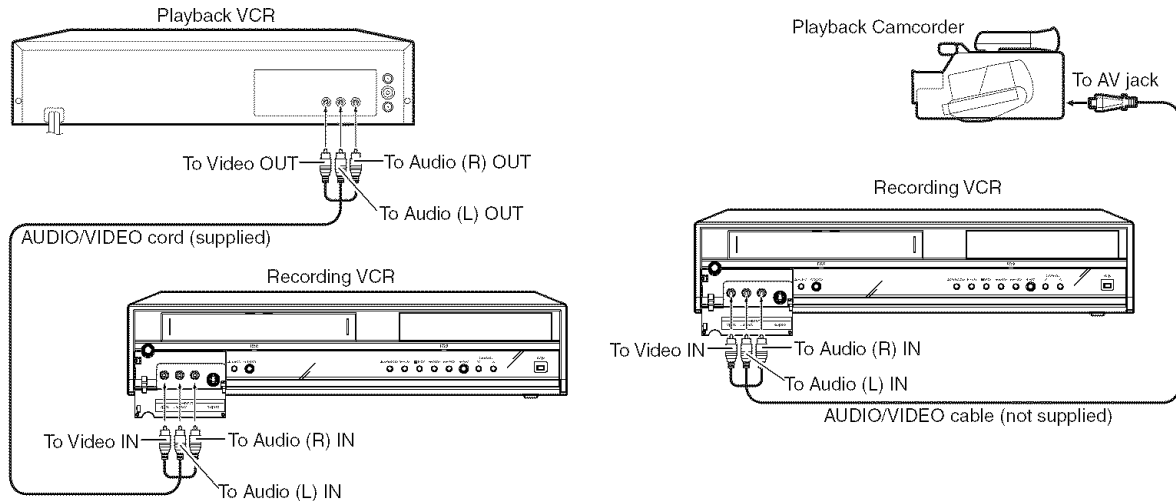
Dubbing

Dubbing using other equipment



You can connect another VCR or camcorder to dubbing.

Typical connection: When using this unit as a recording device



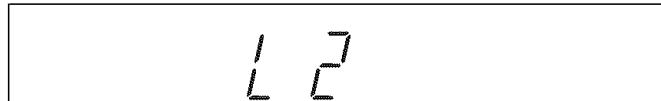
You can also connect to the audio/video input jack (L1) at the rear side of this unit. In addition, each S-Video input jack at the front and rear sides can be used for recording.

When a video is recorded using this unit

Preparation:

- Turn ON the TV and set the unit to the video input mode.
- Load a video tape where the erase-protection tab is not activated or a disc with enough recording space.
- To record onto a video tape, set the unit to VCR mode, whereas to record onto a disc, set it to DVD mode.

- 1 Press **INPUT SELECT** and set the input source.
 L1: AUDIO (L/R)/VIDEO IN on the rear panel (INPUT1)
 L1(S): AUDIO (L/R)/S-VIDEO IN on the rear panel (INPUT1)
 L2: AUDIO (L/R)/VIDEO IN on the front panel (INPUT2)
 L2(S): AUDIO (L/R)/S-VIDEO IN input on the front panel (INPUT2)
 Confirm whether the input source that you used is appeared on the display window.



- 2 Press **REC MODE/SPEED** and select the recording mode.
 VCR: SP or SLP (See page 44)
 DVD: SP, LP, SLP or XP (See page 48)
- 3 Press **REC/OTR** on this unit, then press **PAUSE/STILL**.
- 4 Press the **PLAY** button on the playback device, then press the **PAUSE/STILL** button.
- 5 Release the recording pause and the playback still simultaneously to begin the duplicating process.
- 6 To stop dubbing, press **STOP**.

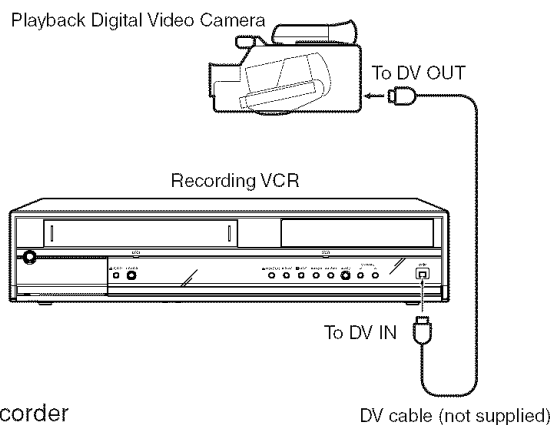
NOTES:

- If using a monaural VCR or other equipment, connect Audio (L) IN jack to Audio OUT using only one audio cable.
- When this unit is used as a playback device, a mark or a character displayed on the screen is also dubbed as an image. When the screen display is set to Off, see "Display/Call" on page 25.
- If no special permission is obtained from the copyright owner, videos recorded from TV programs or movies can only be used for your own personal enjoyment.
- You may not dub a copy protected video or DVD disc.

Dubbing using other equipment



You can connect a DV format digital video camera to the DV IN terminal to record or playback from it.



NOTES:

- The DV terminal of this recorder supports only input from a DV format digital video camera. It cannot output to a connected device. Some models of DV format digital video cameras may be not compatible.
- DV recording does not start in the following cases:
 - While timer recording standby mode
 - While VCR mode
- DV recording does not work if the DV terminal is connected to equipment other than DV format digital video camera, such as a PC.
- Do not keep the DV terminal connected unless you record from a DV format digital video camera, as it may give influence on the recorder if operated.
- When you want to record both stereo 1 and stereo 2 sounds from a DV format digital video camera, additionally make a connection to the audio input jacks on this recorder using cables such as audio/video cables supplied with the DV format digital video camera.
- If a DV format digital video camera is not recognized, pull out the plug and connect it again.
- Some models of DV format digital video cameras may support a different compression format. From such equipment, recording is not possible.
- Depending on the models of DV format digital video cameras, recording may not work properly or some functions may be disabled.
- On an input source from a DV tape which is partly recorded over, chapters may not made properly.

Dubbing DV movie

Preparation:

- Turn ON the TV and set to the video input mode.
- Set the digital video camera to the Playback mode.
- Connect a DV format digital video camera to the DV IN terminal on the front panel.
- Load a disc or insert cassette tape with enough recording space.

- 1 Press **DVD** or **VCR** to set this unit to a mode that you used to dub.
- 2 Press **INPUT SELECT** and set the channel to DV.
 - You cannot playback DVD or VCR when DV input mode selected.
- 3 Press **REC/OTR**.
The digital video camera starts playback and this unit starts recording.
 - You also can use **PLAY**, **F.FWD**, **REV**, **PAUSE** and **STOP** to control DV camera.
- 4 To stop dubbing, press **STOP**.
If the playback finished, the recording stops automatically.

Dubbing

Glossary

A-B Repeat Playback

Playback that repeats between two set points, A and B.

angle

Recorded onto some DVD discs are scenes which have been simultaneously shot from a number of different angles (the same scene is shot from the front, from the left side, from the right side, etc.). With such discs, you can select the angle from which to view the scene.

auto chapter

Feature that automatically makes chapter marks on a DVD disc during recording.

blue background

Feature that automatically changes unpleasant noise images to a blue screen when a channel without a broadcast or a channel on which the broadcast has ended has been selected.

Play screen

Screen that appears when TITLE MENU is pressed during Audio CD, Video CD or MP3/WMA/JPEG/DivX® CD is inserted.

CABLE

Cable television.

chapter

A section within a title is called a "chapter".

Chase playback

Feature that playback from the beginning of a program currently being recorded.

copy guard

Copyright protection signal. Software and broadcasts that contain this signal cannot be recorded.

Dolby Digital

Dolby® Digital Recording enables consumers to record high-quality video with stereo sound on recordable DVD discs. The technology, when utilized instead of PCM recording, also saves recordable disc space, allowing for higher video resolution or extended recording time on each DVD. DVDs created using Dolby Digital Recording will play back on all DVD-Video players.

Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

DTS

This is a digital sound system developed by Digital Theater Systems for use in cinemas. This system uses 6 audio channels and provides accurate sound field positioning and realistic acoustics. (By connecting a DTS Digital Surround decoder, you can also listen to DTS Digital Surround sound.)

DVD menu

Menu recorded on a DVD-Video that enables the user to select subtitles language, dubbing, etc.

finalize

Operation that enables discs recorded or edited with this unit to be played back on other DVD players.

Instant replay

If INSTANT REPLAY is pressed during playback, playback returns to a point 10 seconds earlier and resumes.

Instant skip

When press during playback, playback jumps 30 seconds and resumes.

interlaced scanning

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

letter box

Feature that displays black bands above and below the playback images during playback of a disc recorded in wide (16:9) format on a 4:3 TV connected to this unit.

MP3

One type of audio compression that uses MPEG1. This format compresses the sound to use up about 1/10 of the original file space, without impairing the original sound quality.

OTR

One-touch Timer Recording. Start a timed recording by pressing just one button (up to 6 hours).

pan scan

Feature that cuts the left and right edges of playback images to a 4:3 size during playback of a disc recorded in wide (16:9) format on a 4:3 TV connected to this unit.

parental control

Some discs control viewing according to the age of the viewer. A control level can be set for those types of discs.

PBS

Acronym for Public Broadcast System. The PBS channel transmits data for auto clock setting.

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".



Glossary

region number

There is software that enables DVD playback in differing countries. The number of that kind of disc is called the "region number".

SETUP MENU

Menu that contains settings for various features of this unit, such as recording and playback. Timer recording is also set from the SETUP MENU.

slide show

Technique for flipping through and viewing many images (JPEG files).

subtitle language

Language used for subtitles of movies, etc. Viewers can watch in a language of their choosing.

title

A program recorded on a disc is called a "title".

Title List

Menu that lists titles and tracks recorded on the disc. It is used for playback and disc editing.

top menu

Menu on a DVD-Video for selecting chapters for playback, subtitle language, etc. Some DVD-Video call this top menu "Title".

track

A song on an Audio CD is called a "track".

Video mode

This recording format is compatible with commercially available DVD players.

virtual surround

Technology that converts audio that is not recorded in surround sound into audio that assimilates surround sound.

VR mode

This recording format is the basic DVD-RW recording format, and lets you enjoy the various editing functions available with this unit.

+VR mode (plus VR mode)

This recording format is the basic DVD+RW recording format.

Problems and troubleshooting

Use the following check list for troubleshooting when you have problems with your unit. Consult your local dealer or service outlet if problems persist.

Be sure all connections are properly made when using with other units.

SYMPTOMS	POSSIBLE SOLUTIONS	PAGE
DVD/VCR		
DVD/VCR does not operate.	<ul style="list-style-type: none"> • Make sure the power cord is plugged in. • Try another AC outlet. • Power is off, check fuse or circuit breaker. • Unplug the unit, then plug it back in. • Select the DVD or VCR mode before operating. 	15 — — 15 29,45
No picture.	<ul style="list-style-type: none"> • Check the unit is connected correctly. 	16~19
No sound.	<ul style="list-style-type: none"> • Check the unit is connected correctly. • Check the input selector of the amplifier is set properly. • The unit is in the Special playback mode. 	16~22 — 37, 51
The remote control does not function.	<ul style="list-style-type: none"> • Aim at the remote control at the remote sensor. • Operate within approx. 7 meters or reduce the light in the room. • Clear the path of the beam. • The batteries are weak. Replace the batteries. • Check the batteries are inserted correctly. 	15
No Cable TV reception	<ul style="list-style-type: none"> • Check all Cable TV connections. • Station or Cable TV system problems, try another station. 	
DVD		
Display is not shown in your language.	<ul style="list-style-type: none"> • Select proper language in the SETUP MENU. 	21
Playback does not start.	<ul style="list-style-type: none"> • No disc is inserted. • The disc may be dirty. Clean up the disc. • The unit cannot play DVD-ROMs, etc. 	29 9 9
Stopping playback, search, slow-motion play, repeat play, or program play, etc. cannot be performed.	<ul style="list-style-type: none"> • Some discs may not do some of the functions. 	—
Recording does not work.	<ul style="list-style-type: none"> • Check the disc space, using the disc information. • Check the disc for protection. • Check if the video to be recorded is not "copy-guarded". • Check that the number of recorded titles is 99 (DVD+RW/R is 49) or less, using the disc information. • Check the number of the total chapters for the recorded titles is 999, using the disc information. • For a DVD-RW of Ver.1.0, recording in Video mode does not work. Check the disc type. 	31 25 49 31 31 10
A disc recorded using this recorder cannot be played back in other players.	<ul style="list-style-type: none"> • Check that the disc is finalized. • Some DVD players may not play even if the disc has been finalized. • If the disc was recorded in VR mode, the other player must be RW compatible in order to play the disc. 	24 11, 24 11, 24

Problems and troubleshooting / Video head cleaning

SYMPTOMS	POSSIBLE SOLUTIONS	PAGE
VCR		
TV recording does not work.	• The erase prevention tab of the video cassette is broken off.	44, 50
Timer recording does not work.	• The time is not set correctly.	23
	• The recording start/end time is not set correctly.	52
	• TIMER REC is not been pressed (⏻ is not lit).	53
Noise bars on screen.	• Tracking adjustment beyond range of automatic tracking circuit. Try manual tracking adjustment.	46
	• Video heads are dirty.	73
	• The tape is worn or damaged.	–
OTHER		
No picture, or screen is blurred or divided into two parts.	• The progressive scan mode is active though the unit is connected to a TV via the VIDEO OUT jack.	18
No 4:3 (16:9) picture	• The setup does not match your TV.	26
No on-screen display	• Set Display/Call to "On".	25
No surround sound	• The setup does not match your stereo system.	27
The unit or remote operation key is not functioning.	• Turn off the unit and unplug the AC power cord for several minutes, then replug it.	–
Playback does not start when the title is selected.	• Check the Parental setup.	22
Audio soundtrack and/or subtitle language is not changed when you playback a DVD.	• Multilingual language is not recorded on the DVD disc.	21
No subtitles	• Some discs have no subtitles. • Subtitles are cleared. Press SUBTITLE.	21, 37
Angle cannot be changed.	• Multi-angles are not recorded on the DVD disc.	–
"⊘" appears on the screen.	• The function is prohibited with the unit or the disc.	–

This DVD/VCR contains microcomputer technology. Outside static or noise interference can cause malfunction. If the DVD/VCR is not functioning properly, press **ON/STANDBY** continuously for approx. 10 seconds. The DVD VCR will be reset.

Video head cleaning

Video head clogging

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

NOTES: • DO NOT ATTEMPT TO CLEAN THE VIDEO HEADS OR SERVICE THE UNIT BY REMOVING THE REAR COVER.

- Video heads may eventually wear out and should be replaced when they fail to produce clear pictures.
- To help prevent video head clogging, use only good quality VHS tapes. Discard worn out tapes.

Additional information

Error/Warning message list

	ERROR/WARNING MESSAGE	CAUSE	POSSIBLE SOLUTIONS	PAGE
Power ON	SYSTEM ERROR PLEASE WAIT	The power was shut down without completing the termination process due to a power failure or disconnection of the AC cord plug. (Abnormal termination)	Wait until the message disappears.	--
	SYSTEM ERROR PLEASE WAIT DISC CHECKING	The power was abruptly turned off before writing to the disc was completed.	The data is now restoring.	--
	SYSTEM ERROR DISC MIGHT BE FAILED PRESS ENTER/SELECT	The data restoration was completed.	Press ENTER , then the screen returns to the normal display. The data may not be restored even if the restoration process is performed.	--
Playback	NO DISC	When a disc was not loaded in the unit, PLAY was pressed.	Load a disc.	34
	REGION CODE ERROR	A disc specified other than Region 1 or Region ALL was loaded.	A disc specified other than Region 1 or Region ALL cannot be played back.	9
	INCORRECT DISC - C104, C105, C106, C107	The disc cannot be identified.	Check the disc and load a proper disc.	9
Recording	NO DISC	When a disc was not loaded into the unit, REC/OTR was pressed.	Load a disc.	55
	PROCESSING PLEASE WAIT	The recording termination is processing.	Wait until the process is completed.	--
	RECORDING INTERRUPTED - C204	Disc became full during recording.	Erase unnecessary titles or load another disc and restart recording.	74
	CANNOT RECORD - C203	Recording was tried onto the disc having no space.	Check the disc space.	36
	CANNOT RECORD - C206	Recording was tried onto the disc which does not support recording.	Load a recordable disc.	10
	CANNOT RECORD - C208	Recording was tried onto the finalized disc.	Undo finalization or load another disc for recording.	29
	CANNOT RECORD - C209	Adding data was tried onto the disc recorded in the other unit.	Load another disc for recording.	--
	CANNOT RECORD - C210	Adding data was tried onto the disc where PC data was recorded.	Load another disc for recording.	--
	DISC ERROR - C205, C211, C212, C213	A scratch or contamination was found on the disc.	Check the disc and reload it, or use another disc for recording.	--
	CANNOT RECORD, EXCEEDS LIMITED NUMBER OF TITLES	99 titles were recorded on the disc.	Erase unnecessary titles or load another disc.	74
	CANNOT RECORD, EXCEEDS LIMITED NUMBER OF CHAPTERS	999 chapters exist on the disc.	Erase unnecessary chapters or load another disc.	71
	CANNOT RECORD PROTECTED IMAGE	Recording was attempted on a copy protected video.	You cannot record a copy protected video.	54
	RECORDING INTERRUPTED PROTECTED IMAGE	The video was changed to a copy-guard format in recording.	You cannot record a copy protected video.	54
	CANNOT RECORD IN VIDEO MODE. COPY IMAGE ONCE ONLY.	Recording was attempted on a Copy Once program onto a disc (Video mode).	Load a DVD-RW Ver. 1.1 or later (VR mode) with CPRM.	54
CANNOT RECORD ON DISC. THIS IS NOT CPRM DISC.	Recording was attempted on a Copy Once program onto a disc without CPRM.	Load a DVD-RW Ver. 1.1 or later (VR mode) with CPRM.	54	
Dubbing	SWITCHING TO INTERLACE OUTPUT FOR COPYING	Dubbing was initiated from a disc to a video tape in the progressive scan mode.	The mode is automatically changed to interlaced mode if dubbing from a disc to a video tape.	79
	CANNOT COPY DATA - C251	No video tape or disc is inserted as a source for recording.	Load a video tape or disc into the source drive.	78, 79
	CANNOT COPY DATA - C254, C255	The source video or disc to be copied is copy-guarded.	You cannot dub a video containing copy-guarded material.	54
	COPYING INTERRUPTED	The video tape or disc became full during dubbing.	Load another video tape or disc for recording and restart.	78, 79
Disc setup	DISC ERROR - C302, C303	Cannot Format disc due to a scratch or contamination on the disc.	Check the disc and reload it, or use another disc for recording.	--
	DISC ERROR - C304, C305	Cannot Finalize disc due to a scratch or contamination on the disc.	Check the disc and reload it, or use another disc for recording.	--
	DISC ERROR - C306	Cannot Undo Finalize disc due to a scratch or contamination on the disc.	Check the disc and reload it, or use another disc for recording.	--
	DISC ERROR - C307, C308	Cannot Protect disc ON/OFF due to a scratch or contamination on the disc.	Check the disc and reload it, or use another disc for recording.	--
Title Menu	CANNOT EDIT	Editing cannot be performed due to a scratch or contamination on the disc.	Check the disc and reload it, or use another disc for recording.	--
	CANNOT EDIT - C408	Combining chapters cannot be performed.	Chapter marks that have been added automatically in the erasing of a scene procedure cannot be erased.	71
	PROCESSING PLEASE WAIT	A process requires a longer time such as editing is being performed.	Wait until the process is completed.	--

NOTE: Any error/warning message other than those above might appear. Take measures against such a message by reading the possible solutions above.

Under making now

Specifications

General

Power supply: AC 120V 60Hz
Power consumption: Operation: 30W
Standby: 2.5W (if display window is off.)
Weight: 11.0 lbs (5.0 kg)
Dimensions: Width : 16-15/16 inches (430 mm)
Height : 3-5/8 inches (91.5 mm)
Depth : 13-3/16 inches (335.5 mm)
Operating temperature: 41°F to 95°F (5°C to 35°C)
Operating humidity: Less than 80% RH

VCR section

Video head: 4 Rotary Heads
Audio track: Hi-Fi Sound - 2 Tracks / MONO Sound - 1 Track
Inputs/Outputs: Video: In: 1Vp-p/75 ohm
Out: 1Vp-p/75 ohm
Audio: In: -8dBm/50k ohm
Out: -8dBm/1k ohm
F.FWD/REW Time: Approx. 1 minute and 48 seconds (with T-120 Cassette Tape)(at+25°C)

DVD section

Signal system: NTSC
Applicable disc: DVD (12cm, 8 cm [Self Recording/Playback only]), CD (12cm, 8cm)
Recording discs: DVD-RAM, DVD-RW, DVD-R, DVD+RW, DVD+R
Recording time: XP: Approx. 60 min
SP: Approx. 120 min
LP: Approx. 240 min
SLP: Approx. 360 min
Output: Video : (RCA) 1 Vp-p/75 ohm
Audio : (RCA) -12 dBm/1k ohm
Digital Audio : 0.5Vp-p/75 ohm
Pickup: CD : Wavelength: 780 nm
Maximum output power: 8.5 mW
DVD : Wavelength: 660 nm
Maximum output power: 120 mW

Audio characteristics

S/N Ratio: 90dB (DVD-Video), 42 dB (VCR at SP)
Harmonic distortion: Less than 2% (DVD-Video), Less than 1.5% (VCR at SP)
Wow and flutter: Less than 0.01% Wrms
Dynamic range: More than 90dB
Frequency response: DVD: 4Hz - 22kHz
CD: 4Hz - 20KHz
Hi-Fi frequency response: 20Hz to 20kHz
Hi-Fi dynamic range: More than 90dB

Accessories:

Remote control (SE-R0270) x 1
Audio/Video Cable x 1
Battery R03/AAA x 2

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

Limited Canadian Warranty

For Toshiba Brand DVD Players, DVD Recorders, DVD/VCR Combo Players and Portable DVD Players

Toshiba of Canada Limited ("TCL") makes the following limited warranties to original consumers in Canada. **THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS TOSHIBA BRAND DVD PLAYER, DVD RECORDER, DVD/VCR COMBO PLAYER OR PORTABLE DVD PLAYER (the "PLAYER(S)" or "Player(s)") AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.**

PLAYERS PURCHASED IN CANADA, AND USED ANYWHERE OUTSIDE OF CANADA INCLUDING, WITHOUT LIMITATION, THE UNITED STATES AND MEXICO, ARE NOT COVERED BY THESE WARRANTIES.

PLAYERS PURCHASED ANYWHERE OUTSIDE OF CANADA, INCLUDING, WITHOUT LIMITATION, THE UNITED STATES AND MEXICO, AND USED IN CANADA, ARE NOT COVERED BY THESE WARRANTIES.

Limited One (1) Year Warranty on Parts and Labour (home/non-commercial use)

Subject to the more limited warranty if the Player is used for any commercial or business purposes as set out below, TCL warrants the Player and its parts against material defects in materials or workmanship that result in the Player failing for a period of one (1) year after the date of original retail purchase. **DURING THIS PERIOD, TCL WILL, AT TCL'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART, WITHOUT CHARGE TO YOU FOR PARTS OR LABOUR. YOU MUST DELIVER THE ENTIRE PLAYER TO THE CLOSEST TCL DESIGNATED DVD PLAYER, DVD RECORDER, DVD/VCR COMBO PLAYER OR PORTABLE DVD PLAYER AUTHORIZED SERVICE DEPOT ("ASD"). YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE PLAYER TO AND FROM THE ASD.**

Rental Units

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

Limited Warranty for Commercial Units

TCL warrants Players that are used for any commercial or business purposes as follows: all parts are warranted against material defects in materials or workmanship that result in the Player failing for a period of ninety (90) days after the date of original retail purchase. **DURING THIS PERIOD, TCL WILL, AT TCL'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART, WITHOUT CHARGE TO YOU FOR PARTS OR LABOUR. YOU MUST DELIVER THE ENTIRE PLAYER TO THE CLOSEST ASD. YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE PLAYER TO AND FROM THE ASD.**

Your Responsibility

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

- (1) You must provide your bill of sale or other proof of purchase.
- (2) All warranty servicing of this Player must be performed by a Toshiba Factory Service Depot.
- (3) The warranties from TCL are effective only if the Player is (i) purchased as new and unopened from TCL or from TCL's authorized distributors, dealers or resellers ("ADR's") and (ii) located/operated in Canada.
- (4) Warranties extend only to material defects in materials or workmanship as limited above, and do not extend to:
 - a. Service, repairs or replacement made necessary by accident, misuse, abuse, moisture, liquids, dust, dirt, neglect, accident, damage, 24/7 applications, improper installation, improper operation, improper cleaning, improper maintenance, normal wear and tear, or any other external cause or event, act or omission outside the control of TCL, including fire, theft, acts of God, alteration, power failures, power surges or power shortages, lightning, other electrical faults, or repairs, modifications or replacements by persons other than those authorized by TCL to service the Player;
 - b. Replacement of missing, discarded or lost parts, the provision of retrofits, or preventive maintenance;
 - c. Repair of damage that is cosmetic only or does not affect the Player functionality, such as wear and tear, scratches and dents;
 - d. Service on Toshiba-branded accessory items (such accessory items may be covered by their own warranty);
 - e. Service on third party products or service made necessary by use of incompatible third party products;
 - f. Service made necessary by the simultaneous use of this Player and connected equipment;
 - g. Modifications to the Player not approved in writing by TCL, and service made necessary by the use or installation of non-Toshiba modifications to the Player;
 - h. Service of a Player on which the TOSHIBA label or logo, rating label or serial number have been defaced or removed;
 - i. On-site service and repair of the Player; and
 - j. Damage to the Player caused by failure to follow the specifications, User manuals or guides as to usage and/or storage.

Disclaimer and Limitation of Remedy

TO THE EXTENT NOT PRECLUDED BY LAW, ALL OTHER EXPRESS AND IMPLIED WARRANTIES, CONDITIONS AND REPRESENTATIONS FOR THIS PLAYER, INCLUDING THE IMPLIED WARRANTIES AND CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY DISCLAIMED AND EXCLUDED. IF THE APPLICABLE LAW, STATUTORY OR OTHERWISE, PRECLUDES THE EXCLUSION OF ANY IMPLIED WARRANTIES, CONDITIONS AND REPRESENTATIONS THEN SUCH IMPLIED WARRANTIES, CONDITIONS AND REPRESENTATIONS ARE OTHERWISE LIMITED IN DURATION TO THE TERM OF THIS EXPRESS WRITTEN LIMITED WARRANTY. TO THE EXTENT NOT PRECLUDED BY LAW, THIS WRITTEN WARRANTY SUPERCEDES AND SPECIFICALLY DISCLAIMS ANY OTHER WARRANTY, CONDITION OR REPRESENTATION NOT STATED IN THIS WARRANTY, WHETHER MADE BY TCL, TOSHIBA CORPORATION, THEIR AFFILIATES, ADRs AND ASDs AND WHETHER MADE ORALLY OR IN WRITING (INCLUDING ANY STATEMENT IN ANY BROCHURE, PRESS RELEASE, ANNOUNCEMENT, ADVERTISEMENT, POINT OF SALE DISPLAY, ETC.).

Limited Canadian Warranty

YOU MUST READ AND FOLLOW ALL SET-UP AND USAGE INSTRUCTIONS IN THE APPLICABLE USER GUIDES AND/OR MANUALS. IF YOU FAIL TO DO SO, THIS PLAYER MAY NOT FUNCTION PROPERLY AND YOU MAY SUFFER DAMAGE. THIS WARRANTY WILL NOT COVER ANY SERVICE THAT IS REQUIRED, IN PART OR IN WHOLE, AS A RESULT OF ANY FAILURE TO FOLLOW THE SET-UP AND USAGE INSTRUCTIONS. THIS WARRANTY DOES NOT APPLY AND SHALL BE VOID AND UNENFORCEABLE IF THE PLAYER IS OPENED, SERVICED, OR REPAIRED BY PERSONS OTHER THAN THOSE AUTHORIZED BY TCL TO SERVICE OR REPAIR THE PLAYER.

IF THE PLAYER FAILS TO WORK AS WARRANTED ABOVE, YOUR SOLE AND EXCLUSIVE REMEDY SHALL BE REPAIR OR REPLACEMENT OF THE DEFECTIVE PART. IN NO EVENT WILL TCL, TOSHIBA CORPORATION, THEIR AFFILIATES, ADRs OR ASDs (THE "RELATED PARTIES") BE LIABLE TO YOU OR ANY THIRD PARTY FOR ANY DAMAGES, MONEY, REIMBURSEMENT, COSTS OR EXPENSES. THIS LIMITATION APPLIES TO DAMAGES, MONEY, REIMBURSEMENT, COSTS OR EXPENSES OF ANY KIND WHATSOEVER INCLUDING ANY DIRECT OR INDIRECT DAMAGES, DAMAGE TO PROPERTY OR PERSON, LOST PROFITS, LOST SAVINGS, INCONVENIENCE OR OTHER SPECIAL, INCIDENTAL, EXEMPLARY OR CONSEQUENTIAL DAMAGES, WHETHER FOR BREACH OF WARRANTY, BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE), UNDER A STATUTE OR UNDER ANY OTHER LAW OR FORM OR ACTION, OR WHETHER ARISING OUT OF THE USE OF OR INABILITY TO USE THE PLAYER, EVEN IF ANY OF THE RELATED PARTIES HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR OF ANY CLAIM BY ANY OTHER PARTY.

No person, agent, distributor, dealer or company is authorized to change, modify or extend the terms of these warranties in any manner whatsoever.

Arbitration and Dispute Resolution

To the extent not precluded by law, any claim, dispute, controversy or disagreement (whether for breach of warranty, breach of contract, tort (including negligence), under a statute or under any other law or form of action) against any of the Related Parties arising out of, or otherwise relating to: (i) this warranty; (ii) the Player; (iii) any oral or written representations, statements, brochures, press releases, advertising, announcement, point of sale display, or promotional material relating to the Player; (iv) the relationships that result from this warranty, (the foregoing claims, disputes controversies and disagreements are collectively referred to as the "Dispute"), shall be referred to and resolved by final and binding arbitration (to the exclusion of the courts). To the extent not precluded by law, you agree to waive any right that you may have to commence or participate in any representative or class proceeding against the Related Parties relating to any Dispute. If and where applicable and to the extent not precluded by law, you further agree to opt out of any such representative or class proceedings. Arbitration of any Dispute will be conducted in the forum and in the manner as agreed to between you and TCL. Failing such agreement, the arbitration will be conducted by one arbitrator pursuant to the laws and rules relating to arbitration generally in force in the jurisdiction in which you reside at the time that the Dispute arises. To the extent not precluded by law, no claim, dispute, controversy or disagreement of any other person may be joined or combined with any Dispute by you, without the prior written consent of TCL.

Critical Applications

The Player you have purchased is not designed for any "critical applications." "Critical applications" means life support systems, medical applications, connections to implanted medical devices, commercial transportation, nuclear facilities or systems or any other applications where Player failure could lead to injury to persons or loss of life or catastrophic property damage.

IF THE CUSTOMER USES THE PLAYER IN ANY CRITICAL APPLICATION, THE CUSTOMER – AND NOT TCL, ITS AFFILIATES, ADRs OR ASDs – ASSUME SOLE AND FULL RESPONSIBILITY FOR SUCH USE. TCL RESERVES THE RIGHT TO REFUSE TO SERVICE ANY PLAYER USED IN A CRITICAL APPLICATION. TCL, ITS AFFILIATES, ADRs AND ASDs HEREBY DISCLAIM ANY AND ALL LIABILITY, DAMAGES AND CONSEQUENCES ARISING OUT OF THE SERVICE OR REFUSAL TO SERVICE SUCH PLAYER AND FURTHER DISCLAIM ANY AND ALL LIABILITY, CONSEQUENCES AND DAMAGES THAT MAY ARISE OR RESULT FROM THE USE OF THE PLAYER IN ANY CRITICAL APPLICATIONS.

General Provisions

If and to the extent that any provision of this limited warranty should generally be found to be unenforceable, the unenforceable provision shall be severed from the warranty and deemed not to form part of the warranty. The remaining provisions of this warranty shall be and remain valid and enforceable. If and to the extent that any provision of this limited warranty as it relates to any of the Related Parties is found to be invalid or unenforceable in respect of that party (the "Excluded Party"), the Excluded Party shall be deemed to be severed or excluded from the provision, and the provision shall remain valid, enforceable and applicable in respect of the other or remaining Related Parties.

To the extent permitted by law, this limited warranty shall be governed and construed in accordance with the laws of Ontario.

If there is any inconsistency between this limited warranty, on the one hand, and any statement in the packaging of the Player or in any other document enclosed with, or used in the context of the promotion or sale of, the Player, on the other hand, the provisions of this limited warranty shall prevail.

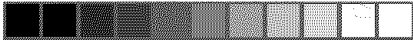
How to Obtain Warranty Services

If, after following all of the operating instructions in this manual and checking the "Troubleshooting" section, you find that service is needed:

- (1) To find the nearest TCL Authorized Service Depot, visit TCL's web site at www.toshiba.ca, or call toll free 1-866-275-6372.
- (2) Present your bill of sale or other proof of purchase to the Toshiba Factory Service Depot.

For additional information, visit TCL's website:
www.toshiba.ca

Additional information



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