

D-VR660KU

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TOSHIBA DVD VIDEO RECORDER / VIDEO CASSETTE RECORDER

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1VMN24613/E9MG0UD ****

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Printed in China

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WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE



CAUTION:

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

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

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

The caution marking is located on the rear of the cabinet.

Laser Safety

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

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

CAUTION: VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED. DO NOT STARE INTO BEAM. LOCATION: INSIDE, NEAR THE DECK MECHANISM.

FCC WARNING- This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

RADIO-TV INTERFERENCE

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:

1) Reorient or relocate the receiving antenna.

2) Increase the separation between the equipment and receiver.

3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

4) Consult the dealer or an experienced radio/TV technician for help.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

• You can dispose of them at a collection point for used up batteries or special waste.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION: POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

A NOTE ABOUT RECYCLING

This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with your local recycling regulations.

Batteries should never be thrown away or incinerated but disposed of in accordance with your local regulations concerning chemical wastes.

Make your contribution to the environment!!!

· Used up batteries do not belong in the dust bin.

Contact your council for details.

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IMPORTANT SAFETY INSTRUCTIONS

This unit has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit will protect you if you observe the following procedures for installation, use and servicing. This unit is fully transistorized and does not contain any parts that can be repaired by the user.

DO NOT REMOVE THE CABINET COVER, OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY.

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over



- 13. Unplug this apparatus and disconnect the antenna or cable system during lightning storms or when unused
- for long periods of time.
 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15. Do not overload wall outlets; extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- 16. Never expose the apparatus to dripping or splashing or place items such as vases, aquariums, any other item filled with liquid, or candles on top of the unit.
- 17. Keep your fingers well clear of the disc tray as it is closing. Neglecting to do so may cause serious personal injury.
- 18. Do not place anything on top of this unit.

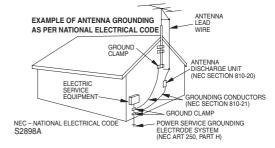
- 19. Do not place the apparatus on amplifiers or equipment that may produce heat.
- Never block or cover the slots or openings in the unit. Never place the unit:
 - on a bed, sofa, rug, or similar surface;
 - too close to drapes, curtains, or walls; or
 - in a confined space such as a bookcase, built-in cabinet, or any other place with poor ventilation.
 The slots and openings are provided to protect the unit from overheating and to help maintain reliable operation.
- 21. Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and apparatus malfunction.
- 22. If the apparatus should emit smoke or an unusual odor, immediately disconnect the power cord from the wall outlet. Wait until the smoke or smell stops, then ask your dealer for a check and repair. Neglecting to do so may cause fire.
- 23. During thunderstorms, do not touch the connecting cables or the apparatus.

24.



DANGER: RISK OF SERIOUS PERSONAL INJURY OR DEATH!

- Use extreme care to make sure you are never in a position where your body (or any item you are in contact with, such as a ladder or screwdriver) can accidentally touch overhead power lines. Never locate the antenna near overhead power lines or other electrical circuits.
- Never attempt to install any of the following during lightning activity: a) an antenna system; or b) cables, wires, or any home theater component connected to an antenna or phone system.
- 25. Always make sure the antenna system is properly grounded to provide adequate protection against voltage surges and built-up static charges (see Section 810 of the National Electric Code).



Do not place the unit on the furniture that is capable of being tilted by a child and an adult leaning, pulling, standing or climbing on it. A falling unit can cause serious injury or even death.



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Installation Location

For safety and optimum performance of this unit:

- Install the unit in a horizontal and stable position. Do not place anything directly on top of the unit. Do not place the unit directly on top of the TV.
- Shield it from direct sunlight and keep it away from devices of intense heat. Avoid dusty or humid places. Avoid places with insufficient ventilation for proper heat dissipation. Do not block the ventilation holes on the sides of the unit. Avoid locations subject to strong vibration or strong magnetic fields.

Avoid the Hazards of Electrical Shock and Fire

- Do not handle the power cord with wet hands.
- Do not pull on the power cord when disconnecting it from AC outlet. Grasp it by the plug.
- If, by accident, water is spilled on this unit, unplug the power cord immediately and take the unit to our Authorized Service Center for servicing.

Moisture Condensation Warning

Moisture condensation may occur inside the unit when it is moved from a cold place to a warm place or after heating a cold room or under conditions of high humidity. Do not use this unit at least for 2 hours until its inside gets dry.

Supplied Accessories

remote control with batteries (AAx2)



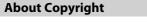
RF coaxial cable



RCA audio/video cables



owner's manual



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.

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

Notice for Progressive Scan Output

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 picture problems with 480 progressive scan output, it is recommended that the user switch the connection to the "standard definition" output. If there are questions regarding your TV set compatibility with this 480p DVD recorder, please contact Toshiba Customer Service.

quick setup guide



return stop sheet



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Maintenance

Servicing

- Please refer to relevant topics on "TROUBLESHOOTING" on pages 113-116 before returning the product.
- If you need to call a customer service representative, please know the model number and serial number of your product before you call. This information is displayed on the back of the product. Also, please take a moment to identify the problem you are having, and be prepared to explain this to the representative. If you believe the representative will need to help you with operations, please stay near the product. Our representatives will be happy to assist you.

Cleaning the Cabinet

- Wipe the front panel and other exterior surfaces of the unit with a soft, slightly damp cloth.
- Never use a solvent, thinner, benzene or alcohol to clean the unit. Do not spray insecticide liquid near the unit. Such chemicals may discolor the surface or damage the unit.

Cleaning Discs

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center to out. Do not wipe in a circular motion.
- Do not use solvents such as benzine, thinner, commercially available cleaners, detergent, abrasive cleaning agents or antistatic spray intended for analog records.

Cleaning the Disc Lens

- If this unit still does not perform properly although you refer to the relevant sections and to "TROUBLESHOOTING" in this owner's manual, the laser optical pickup unit may be dirty. Consult your dealer or an Authorized Service Center for inspection and
- cleaning of the laser optical pickup unit.

Disc Handling

- Handle the discs so that fingerprints and dust do not adhere to the surfaces of the discs.
- Always store the disc in its protective case when it is not used.

Auto Head Cleaning

- Automatically cleans video heads as you insert or remove a cassette, so you can see a clear picture.
- Playback picture may become blurred or interrupted while the TV program reception is clear. Dirt accumulated on the video heads after a long period of use, or the usage of rental or worn tapes can cause this problem. If a streaky or snowy picture appears during playback, the video heads in your unit may need to be cleaned.
- 1. Please visit your local Audio/Video store and purchase a good quality VHS video head cleaner.
- If a video head cleaner does not solve the problem, please consult your dealer or an Authorized Service Center.

Note

- Remember to read the instructions along with the video head cleaner before use.
- · Clean video heads only when problems occur.

IR Signal Check

If the remote control does not work properly, you can test if the remote control sends out the infrared signal with AM radio or a digital camera (including built-in camera of cellular phone). It will help to define the cause of malfunction.

With an AM radio:

Tune an AM radio to a station with no broadcasting. Press a button on remote control toward the radio. Sound will be fluttering when you press any key and the radio receives the signal. This means the remote control is working.



With a digital camera (including built-in camera of cellular phone):

Direct a digital camera to remote control, press and hold a button on remote control. If infrared light appears through digital camera, the remote control is working.





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Dolby Digital Recording

"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."

Note: This is true when the players are compatible with actual recordable DVD discs.



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"WMA" (Windows Media Audio) is a new audio codec developed by Microsoft® in the United States of America.

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FEATURES

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This unit not only plays back DVD, CD and cassette tape but also offers features for you to record on DVD/cassette tape and edit them after that. The following features are offered with this unit.

Recording

DVD mode VCR mode

This unit is compatible with recording on DVD-RW/+RW which is recordable repeatedly and DVD-R, DVD+R which accept the additional recordings until the disc becomes full but not overwritable. Also, this unit allows you to record to the cassette tape.

Up to 12 program recording:

You can program the unit to record up to 12 programs, within a month in advance. Daily or weekly program recordings are also available.

One-touch timer recording (OTR):

You can easily set a recording time as you prefer. Every time [REC ●] is pressed during recording, the recording time will be increased by 30 minutes up to 8 hours. The recording automatically stops when the recording time you set is reached.

Dubbing mode:

You can copy a DVD to a cassette tape or copy a cassette tape to a DVD. This function will be possible only if the DVD or a cassette tape is not copy protected. You cannot record on a cassette tape when its erase-protection tab is removed.

DV dubbing:

This function helps you to easily dub the contents of the DVC (digital video camcorder) to DVD and VCR.

Left channel stereo recording:

This unit can record the sound of the left channel monaural input as left and right channels automatically (the input from the L2 jacks only).

Automatic chapter mark setting:

Chapter marks will be put on recordings as you set before attempting to record.

Automatic title menu making:

The unit creates title menu automatically when finalizing discs. Automatic playlist making:

The unit creates a playlist automatically after recording VR mode DVD-RW.

Automatic title finalizing:

For video mode DVD-RW/-R and DVD+R recording, you can finalize discs automatically after finishing all timer recordings or at the end of the disc space if you set this in the main menu.

Playback

Theater surround sound in your home:

When connecting the unit to an amplifier or a decoder which is compatible with Dolby Digital or DTS, you can experience the theater surround sound from discs with surround sound system.

Quick search for what you want to watch:

You can easily find the part you want to watch using the search function. Search for a desired point on a disc by title, chapter/track or time.

Virtual surround system:

You can enjoy stereophonic space through your existing 2 channel stereo system.

Playing back on MP3/WMA/JPEG/DivX[®] files:

You can enjoy MP3/WMA/JPEG/DivX® files which are recorded on CD-RW/-R.

DivX[®] files can also be recorded on DVD-RW/-R and DVD+RW/+R.

Quick search for what you want to watch: VCR mode You can go to a specific point on a cassette tape by entering the exact amount of time you wish to skip.

You can easily find the part you want to watch using the index search/time search functions. An index mark will be assigned at the beginning of each recording you make. For time search function, you can go to a specific point on a cassette tape by entering the exact amount of time you wish to skip.

Editina

Deleting titles:

You can delete titles which you do not need anymore. Setting or clearing chapter marks:

You can set or clear chapter marks on titles.

Hiding chapters:

To keep others from playing back some chapters without permission, you can hide chapters.

Deleting parts of titles: You can delete a specific part of a title.

Dividing or combining titles: You can divide or combine a title.

Editing title names:

You can change the title name you prefer.

Compatibility



DVD mode

Available for playing back discs on a regular DVD player:

Recorded discs can be played back on regular DVD players, including computer DVD drives compatible with DVD-video playback. Although DVD+RW/+R are playable on other units without finalization in most cases, it is recommended to finalize in order to stabilize the performance.

Others

DVD mode

DVD mode

Progressive scan system

DVD mode Unlike conventional interlace scanning, the progressive scan system provides less flickering and images in higher resolution than that of traditional television signals.

HDMI (High-Definition Multimedia Interface)

You can enjoy clearer audio/video output when connecting this unit to a display device with an HDMI-compatible port.

Symbols Used in this Owner's Manual

To specify for what disc type each function is, we put the following symbols at the beginning of each item to operate.

Symbol	Description
For Reco	rding, Playing Back, and Editing
	Description refers to DVD-RW in video mode
	Description refers to DVD-RW in VR mode
	Description refers to DVD-R in video mode
	Description refers to DVD+RW
	Description refers to DVD+R
Сунз	Description refers to VHS tapes Use only cassettes marked VHS ([VHS]).
For Playb	back only
	Description refers to DVD-video
Ø CD	Description refers to audio CD
Ø МР3	Description refers to CD-RW/-R with MP3 files
Ø WMA	Description refers to CD-RW/-R with WMA files
PEG	Description refers to CD-RW/-R with JPEG files
O Div X °	Description refers to DVD-RW/-R, DVD+RW/+R and CD-RW/-R with DivX [®] files

If you do not find any of the symbols listed above under the function heading, the operation is applicable to all media.

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	Disc type	Discs for Record	D-RW		DVD-R	DVD+RW	DVD+R	Introduction	
Logo Format Can be formatted i mode				R 4.7	DVD+ReWritable				
			l in VR or	video	Automatically formatted in video mode	Automatically formatted in +VR mode	Automatically formatted in +VR mode	Connections	
		Video Mode	VR Mode					N	
lcon								Ba	
N	laximum record time	480 min (12cm) 144 min (8cm)	480 mir 144 mir		480 min (12cm) 144 min (8cm)	480 min (12cm) 144 min (8cm)	480 min (12cm) 144 min (8cm)	Basic Setup	
Recordable/playable		Ver.1.1,1.2 Ver.1.1/2× CPRM Ver.1.2/4× CPRM			Ver.2.0 Ver.2.0/4× Ver.2.0/8× Ver2.0/16×	1×-4×	1×-16×		
	Compatibility	players. on V		ible unit.	Playable on most DVD players. Finalization	Playable on DVD+RW compatible players. Finalization	Playable on most DVD players. Finalization	Disc Management	
		necessary. (title menu will be created)	Finalization recommended.		necessary. (title menu will be created)	recommended. (title menu will be created)	recommended. (title menu will be created)	Recording	
Recording Features									
	Record TV programs	1		/	1	1	1		
t	Reuse by deleting the current contents	1	1			✓		Playback	
F	Record 16:9 size Dictures	1	1		1			back	
F	Record copy-once programs			/ *					
a	Create chapters at fixed intervals auto chapter)	1	1		1	1	1	Editing	
E	Editing Features		•		g				
2	icene delete		1	1					
F	dit title name	1	1	1	1	1	1	Func	
۱	Create chapters wherever you like chapter mark)		1	1		✓	5	Function Se	
I	Divide a title		1			1		ı Setup	
(Combine titles		1					<	
ŀ	lide chapters					1	<i>✓</i>	VCR	
[Delete a title	1	1	<i>✓</i>	1	1	1	Fund	
	Create a blaylist			1				Function	
F	Protect a title			1					

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	Discs for playing b	back						
Disc Type	DVD-VIDEO		CD-E	A	CD-RW			CD-R
Logo	VIDEO			56	ReWr	itable	0	COMPACT
lcon	VIDEO		Ø	D	Ø CD			Ø CD
Files for playing back								Recording/Playing back
Type of title	MP3	,	WMA	JPEC	5	DivX®		VCR
lcon	МР З		WMA		EG	OD ivX [°]		VHS
Media	CD-RW/-R	CE	D-RW/-R	CD-RW	//-R	CD-RW/-R DVD-RW/-R DVD+RW/+R		Cassette Tape

is a trademark of DVD Format/Logo Licensing Corporation. Official DivX[®] Certified product

- Plays all versions of DivX® video (including DivX® 6) with standard playback of DivX® media files
- Discs containing the DivX[®] files with the DivX[®] GMC (Global Motion Compensation) playback feature, which is DivX® supplemental function, cannot be played back on this unit.
- * This unit cannot play back the disc contents protected by Windows Media Digital Rights Management (DRM).

Unplayable Discs

The following discs will not play back on this unit.

- CD-ROM Compact Disc-Interactive (CD-I)
- Video Single Disc (VSD) DVD-ROM
- DVD-audio Unfinalized disc
- DVD contains MP3, WMA or JPEG files
- DVD-RW/-R recorded in non compatible recording format • HD DVD
- Blu-ray Disc
- On the following disc, the sound may not be heard.
- Super audio CD Only the sound on the CD layer can be heard. The sound on the high-density super audio CD layer cannot be heard.

Color Systems

DVD is recorded in different color systems throughout the world. The most common color system is NTSC (which is used primarily in the United States and Canada). This unit uses NTSC, so DVD you play back must be recorded in the NTSC system. You cannot play back DVD recorded in other color systems.

Region Codes

This unit has been designed to play back DVD with region 1. DVD must be labeled for ALL regions or for region 1 in order to play back on the unit. You cannot play back DVD that are labeled for other regions. Look for the symbols on the right on your DVD. If these region symbols do not appear on your DVD, you cannot play back the DVD in this unit.



The number inside the globe refers to region of the world. A DVD labeled for a specific region can only play back on the unit with the same region code.

Following discs are recommended for good recording guality and are proven to be compatible with this unit. However, depending on the media condition, the unit may not read the disc properly.

Verbatim DVD+R 8x, DVD+RW 4x, DVD-R 8x, DVD-RW 2x IVC DVD-RW 4x

JvC	
Maxell	DVD+R 4x/8x/16x, DVD-R 8x/16x
SONY	DVD+R 4x/8x/16x, DVD+RW 4x
TDK	DVD+R 4x/8x/16x
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Performance of any other discs are not guaranteed.

- Toshiba is not liable for any damage or loss caused directly or indirectly by the malfunction of this recorder, 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-RW/-R, DVD+RW/+R disc created on this recorder is used (e.g., insertion, playback, recording or editing) in another DVD player, recorder or personal computer drive.
 - When a DVD-RW/-R, DVD+RW/+R disc that is used in the manner described in the immediately preceding bullet point is used again in this recorder.
 - When a DVD-RW/-R, DVD+RW/+R disc that was recorded in another DVD recorder, or in a personal computer drive is used in this recorder.
- Some functions may not work with personal computer discs.
- Discs recorded in this recorder may not operate as expected on other DVD players, recorders or personal computer drives.

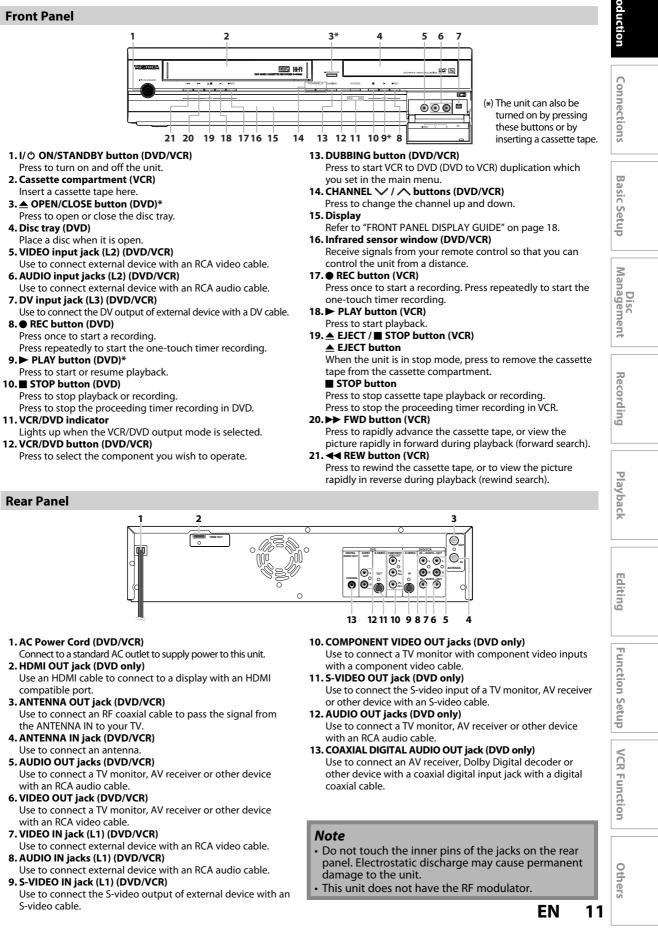
Because of problems and errors that can occur during the creation of DVD and CD software and/or the manufacture of DVD and CD discs, Toshiba cannot assure that this DVD Video Recorder will successfully play every disc bearing the DVD and CD logos. If you happen to experience any difficulty playing a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

DVD players with **COMPATIBLE** are capable of playing DVD-RW recorded in VR mode.

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FUNCTIONAL OVERVIEW

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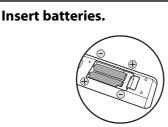
FUNCTIONAL OVERVIEW

Remote Control

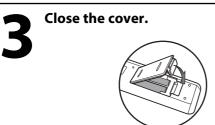
Installing the Batteries in the Remote Control

Install the batteries (AAx2) matching the polarity indicated inside battery compartment of the remote control.





Make sure to match + and - on the batteries to the marks indicated in the battery compartment.



Caution:

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Never throw batteries into a fire. *Note:*

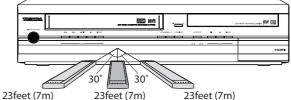
- Be sure to use AA size batteries.
- Dispose of batteries in a designated disposal area.
- Batteries should always be disposed of with the environment in mind. Always dispose of batteries in accordance with applicable laws and regulations.
- If the remote control does not operate correctly, or if the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

Using a Remote Control

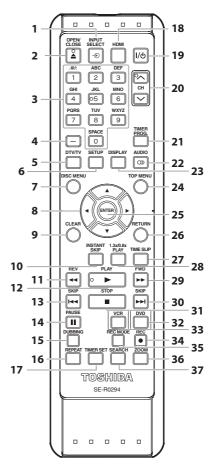
Keep in mind the following when using the remote control:

- Make sure that there are no obstacles between the remote control and the infrared sensor window on the unit.
- Remote operation may become unreliable if strong sunlight or fluorescent light is shining on the infrared sensor window of the unit.
- Remote control for different devices can interfere with each other. Avoid using remote control for other device located close to the unit.
- Replace the batteries when you notice a fall off in the operating range of the remote control.
- The maximum operable ranges from the unit are as follows.
- Line of sight: approx. 23 feet (7m)
- Either side of the center:

approx. 23 feet (7m) within 30°









FUNCTIONAL OVERVIEW

1. INPUT SELECT - € button

Press to select the appropriate input. 2. OPEN/CLOSE 📥 button

DVD mode:

- Press to open or close the disc tray.
- VCR mode:
- · Press to remove the cassette tape from the cassette

compartment. 3. Number/Character buttons

- Press to enter values for the settings in the main menu. Press to select channel numbers.
- DVD mode: Press to select a title/chapter/track/file on display.
- Press to enter title names.
- VCR mode:
- Press to start the index/time search.
- 4. Confirm () button
- Analog mode:
- Press to confirm the channel selection made by
- [the Number buttons].
- Digital mode:
- Press to confirm the major / minor channel selection made by [the Number buttons].
- 5. DTV/TV button
 - Press to switch between digital TV (DTV) mode and analog TV (TV) mode.
- 6. SETUP button
- Press to display the main menu.
- During DVD playback, press and hold for more than 3 seconds to switch the progressive scanning mode to
- the interlace mode. 7. DISC MENU button (DVD)
- Press to display the disc menu. To change original and playlist on the TV screen.
- 8. Cursor ▲ / ▼/ ◀ / ► buttons
- Press to select items or settings.
- 9. CLEAR button

DVD mode:

- Press to clear the password once entered, to cancel the programming for CD, to clear the selecting marker number in the display menu, etc.
- VCR mode: Press to reset the tape counter.
- 10. INSTANT SKIP button (DVD)
- During playback, press to skip 30 seconds.
- 11. REV 🛋 button
- DVD mode:
- During playback, press to fast reverse playback.
- When playback is in pause, press to slow reverse playback. VCR mode
- During playback, press to view the picture rapidly in reverse.
- Press to fast reverse the cassette tape in stop mode.
- 12. PLAY ► button
 - Press to start playback or resume playback.
- 13. SKIP | < button (DVD)
 - During playback, press to return to the beginning of the current chapter, track or file.
 - During playback, press twice in quick succession to skip to the previous chapter or track.
- When playback is in pause, press repeatedly to reverse the playback step by step. 14. PAUSE || button
- Press to pause playback or recording. 15. DUBBING button
- - Press to start VCR to DVD (DVD to VCR) duplication which you set in the main menu.
- 16. REPEAT button
 - DVD mode:
 - Press to select the repeat mode.
 - VCR mode:

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- Press to set or release the Auto Repeat Playback. In the Auto Repeat Playback mode, tape is played to its end, the tape will rewind to the beginning and start playback itself.
- **17. TIMER SET button**
 - Press to set the unit in the timer standby mode. In the timer standby mode, press to cancel the mode and to turn the unit on.

18. HDMI button (DVD)

Press to set the HDMI connector's video signal output mode.

19. I/ 아 ON/STANDBY button

- Press to turn the unit on and off.
- 20. CH \land / \checkmark buttons DVD mode:
 - Press to change the channel up and down.
 - VCR mode:
 - Press to change the channel up and down.
 - Press to adjust the tracking during playback or in slow motion of the cassette tape.
 - While playback is in still mode, you can stabilize the picture

Connections

Basic Setup

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21. TIMER PROG. button

Press to display the timer programming list.

22. AUDIO CD button

- DVD mode:
 - During playback, press to display the audio menu. VCR mode:
 - During the playing of a HiFi video tape, press to change the audio out setting to HiFi or mono.
- 23. DISPLAY button
- Press to display the display menu on or off.
 24. TOP MENU button (DVD)
- Press to display the title list.
- 25. ENTER button
- Press to confirm or select menu items.
- 26. RETURN button • Press to return to the previous displayed menu screen. 27. TIME SLIP button (DVD)
 - Press once to start recording the TV program you are watching. Press again to watch the content being recorded from the beginning while recording continues. (VR mode DVD-RW with the recording mode of LP, EP or SLP only)

28. 1.3x/0.8x PLAY button (DVD)

• During playback, press to play back in a slightly faster/ slower speed while keeping the sound output. 29. FWD ►► button

DVD mode:

- - During playback, press to fast forward playback. · When playback is in pause, press to slow forward

playback. VCR mode:

- During playback, press to view the picture rapidly in forward.
- Press to fast forward the cassette tape in stop mode. • When playback is paused, press to view the cassette tape in slow motion

30. SKIP ►► | button (DVD)

- During playback, press to skip to the next chapter, track or file
- · When playback is in pause, press repeatedly to forward the playback step by step.

Press repeatedly to start the one-touch timer recording.

During playback, press to enlarge the picture on the TV

Press to call up the index or time search menu.

• If you turn off this unit, [OPEN/CLOSE ▲] on the remote

Be sure to use [OPEN/CLOSE] or [EJECT / STOP]

- 31. STOP Southern
 - Press to stop playback or recording. DVD mode:
- Press to exit from the title list.
- 32. DVD button
- Press to select the DVD output mode.

Press once to start a recording.

• Press to switch the recording mode. 36. ZOOM button (DVD)

33. VCR button Press to select the VCR output mode.

35. REC MODE button

37. SEARCH button (VCR)

control is not available.

34. REC
button

screer

on the unit.

Note

THE VCR / DVD RECORDER SWITCHING

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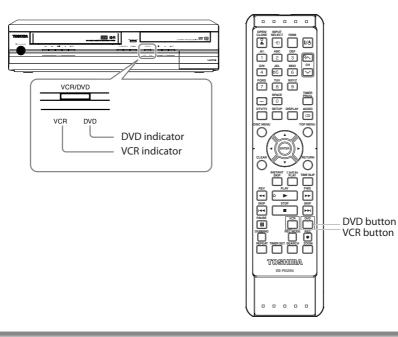
Because this product is a combination of a VCR and a DVD recorder, you must select first which component you wish to operate with **[VCR/DVD]**.

DVD mode

Press **[DVD]** on the remote control. (Verify that the DVD indicator is lit.)

VCR mode

Press **[VCR]** on the remote control. (Verify that the VCR indicator is lit.)



Note

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• You cannot switch to another mode (DVD or VCR) in the timer-standby mode.

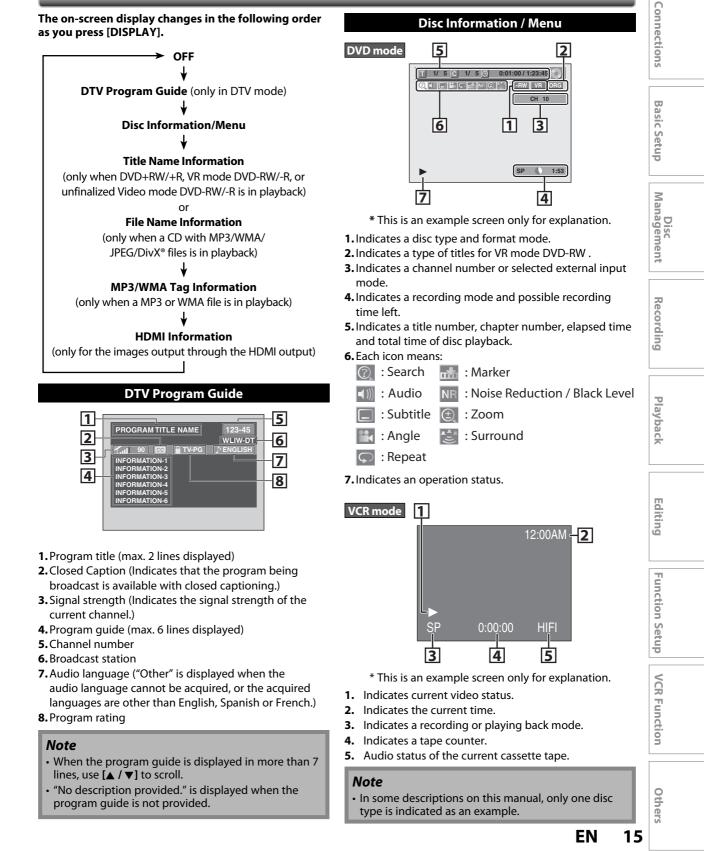
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GUIDE TO ON-SCREEN DISPLAYS AND MENUS

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This unit uses the following on-screen displays and menus to guide you to the easy operations. The on-screen displays give you the information on the loaded disc, the disc/file in playback, or the HDMI status, etc. The menus allow you to change the various kinds of settings for playing back, recording, or editing to suit your preference.

On-Screen Display / Menu



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GUIDE TO ON-SCREEN DISPLAYS AND MENUS

Title/File Name Information	HDMI Information
Title name information	1 2
Title Name	Video Info. : 480p / YCbCr
My Titie	Audio Info. : Bitstream
	3
File name information	
File Name	
My File	



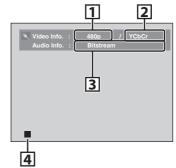
∤ • If you press [DISPLAY] one more time, artist name will be displayed.

Artist Name		
	Ţ	

• If you press [DISPLAY] one more time, album name will be displayed.

Album Name	
The resource of the second	

• If there is no artist, track or album name, "Not Available" will be displayed.



- *1. Indicates the resolution of the HDMI output image.
- *2. Indicates the HDMI video format.
- *3. Indicates the HDMI audio format.
 - 4. Indicates current disc status.
- * "- -" will be displayed, when it does not have any information.

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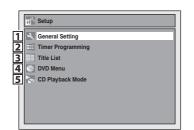
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GUIDE TO ON-SCREEN DISPLAYS AND MENUS

Main Menu

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Press [SETUP] to display the main menu. Then use [▲ / ▼] to select a menu and press [ENTER] to display the menu. These menus provide entries to all main functions of the unit.



1. General Setting:

- To go to general setting menu.
- 2. Timer Programming:
- To program a timer recording. 3. Title List:
- To call up the title list.
- 4. DVD Menu:

To set up the DVD setting.

- 5. CD Playback Mode:
 - To set up the CD playback setting.
 - "CD Playback Mode" is available only when an audio CD, a CD-RW/-R with MP3 / WMA / JPEG files is inserted into the unit.

1 General Setting
Playback Playback 3 - Video 4 - Recording Clock Clock Channel DivX 7 - HobM 8 - Reset All 9

General Setting Menu

1. Playback:

To set up the unit to play back discs as you prefer. 2. Display:

- To set up the OSD screen as you prefer.
- 3. Video:

To set up the video setting. 4. Recording:

- To set up the unit to record to discs as you prefer. 5. Clock:
 - To set up the clock of the unit as you need.

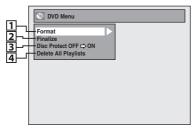
6. Channel:

- To adjust the channel setting of the unit as you prefer. 7. DivX:
 - To set up the setting for the DivX[®] playback.
- 8. HDMI:
 - To set up the HDMI connection setting.
- 9. Reset All:
 - To reset the setting to the factory default.

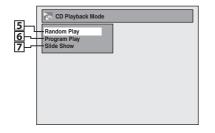
DVD Menu / CD Playback Mode

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<DVD Menu menu>



<CD Playback Mode menu>



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- 1.Format (DVD-RW, DVD+RW only): Allows you to format the disc.
- 2. Finalize:
- Allows you to finalize a disc containing recorded titles. 3. Disc Protect (VR mode DVD-RW, DVD+RW/+R only): Allows you to protect a disc from accidental editing or recording.
- 4. Delete All Playlists (VR mode DVD-RW only): Allows you to delete playlist.

5. Random Play:

- Allows you to activate the random playback feature. 6. Program Play: (Audio CD only)
- Allows you to activate the program playback feature. 7. Slide Show: (JPEG files only)

Allows you to select the display time of the slide show mode.

Disc Management

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VCR Function

Others

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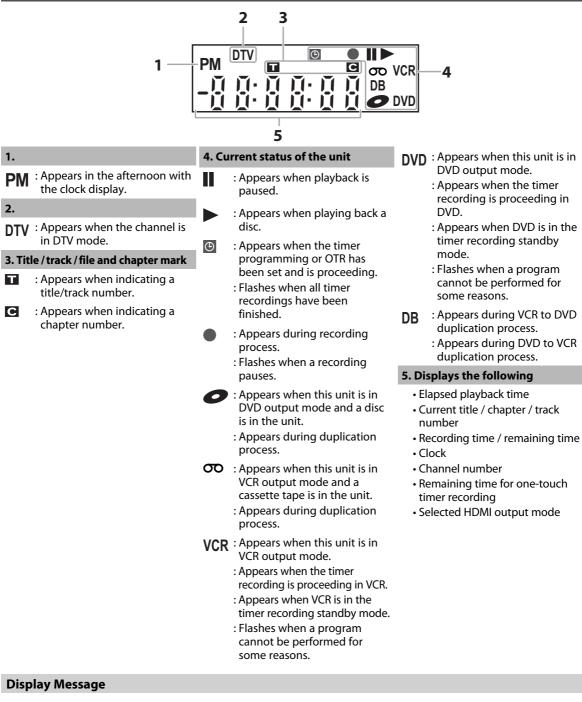
Introduction

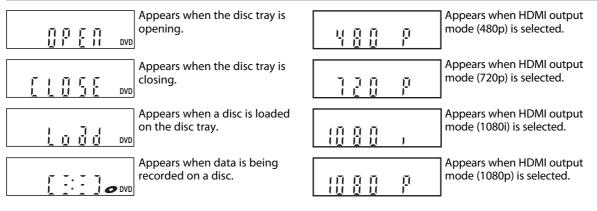
Connections

Basic Setup

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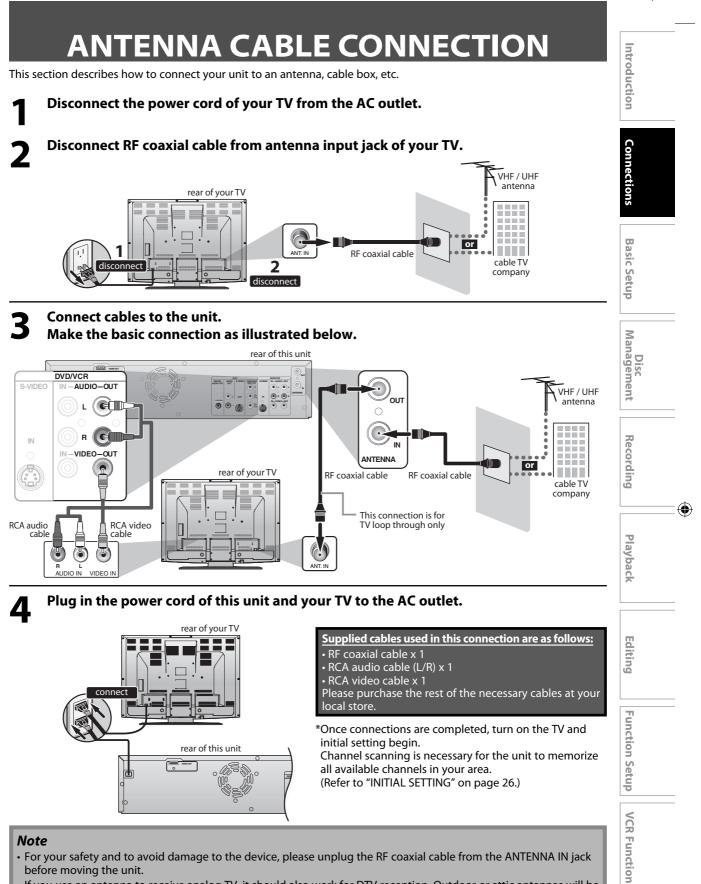
FRONT PANEL DISPLAY GUIDE





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- If you use an antenna to receive analog TV, it should also work for DTV reception. Outdoor or attic antennas will be more effective than set-top versions.
- RF output is for tuner pass through only. DVD playback through the RF is not possible.

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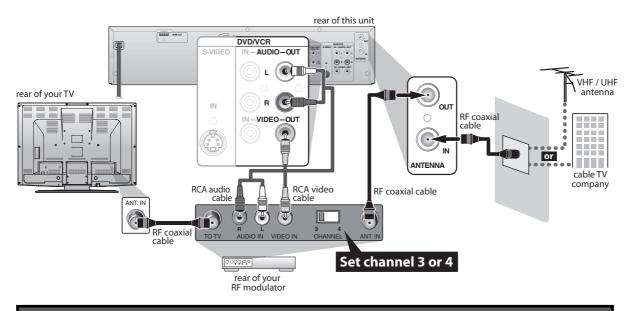
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Others

RF MODULATOR CONNECTION

If your TV has antenna in jack only, it is still possible to connect this unit to your TV by using a stereo audio/video RF modulator. In this case, follow the instructions below.

- 1) Disconnect the power cords of the devices from the AC outlet.
- 2) Make the connection as illustrated below.
- 3) Set your RF modulator's channel 3/4 switch to either 3 or 4, whichever the TV channel is least used in your area. If your RF modulator has a Modulator/Antenna switch, set it according to the manual supplied with the RF modulator.
- 4) Plug in the power cords of the devices to the AC outlet.
- 5) Turn on your TV and choose the same channel as you set the RF modulator's channel 3/4 switch. For more details, follow the manual supplied with the RF modulator.



Supplied cables used in this connection are as follows:

• RF coaxial cable x 1

• RCA audio cable (L/R) x 1

• RCA video cable x 1

Please purchase the rest of the necessary cables at your local store.

Note

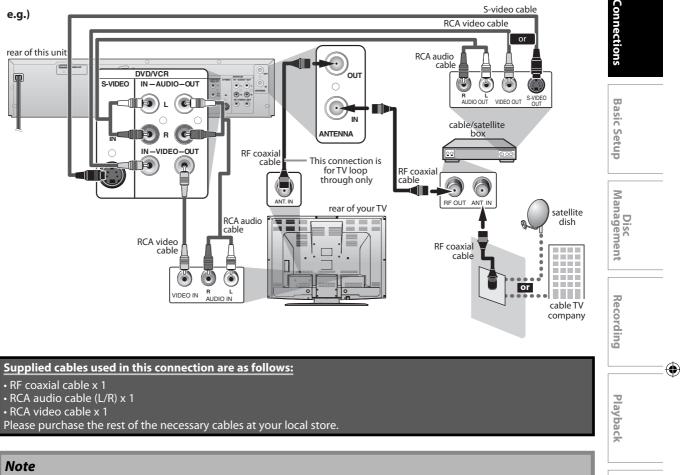
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• The quality of picture may become poor if this unit is connected to an RF modulator.

CONNECTION TO A CABLE / SATELLITE BOX

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- 1) Disconnect the power cords of the devices from the AC outlet.
- 2) Make the connection as illustrated below.
- 3) Plug in the power cords of the devices to the AC outlet.



- Required cables and connecting methods differ depending on the cable/satellite box. For more information, please contact your cable/satellite provider.
- Instead of using VIDEO OUT jack of this unit, you can also use S-VIDEO OUT jack, COMPONENT VIDEO OUT jack, or HDMI OUT jack (no AUDIO OUT jack connection required) for connecting to your TV.

With this setup:

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• You can record any unscrambled channel by selecting the channel on the cable/satellite box. Be sure that the cable/satellite box is turned on.

• You cannot record one channel while watching another channel.

Note to CATV system installer

• This reminder is provided to call the cable TV system installer's attention to Article 820-40 of the National Electrical Code, which provides guidelines for proper grounding - in particular, specifying that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as possible.

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Editing

Function Setup

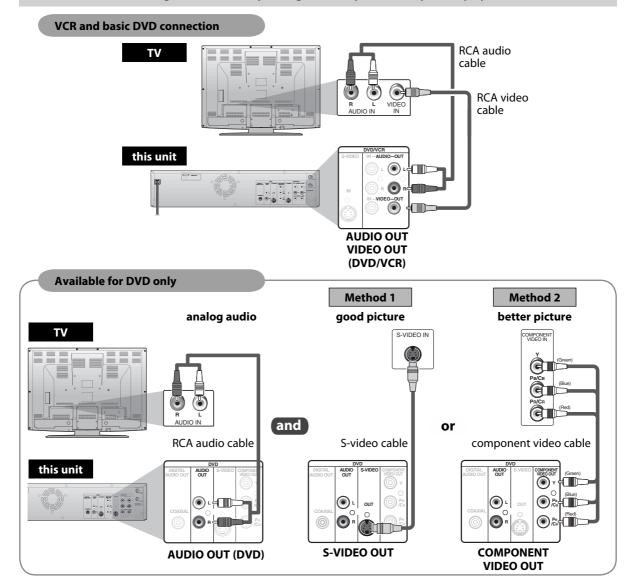
VCR Function

Others

Introduction

CONNECTION TO A TV

Make one of the following connections, depending on the capabilities of your display device.



Supplied cables used in this connection are as follows: • RCA audio cable (L/R) x 1

• RCA video cable x 1

Please purchase the rest of the necessary cables at your local store.

Note

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- If S-video cable is connected to the S-VIDEO OUT jack, the picture from the VCR will not be displayed.
- Connect this unit directly to the TV. If the RCA audio/ video cables are connected to a VCR, pictures may be distorted due to the copy protection system.
- You will not be able to hear the sound being output from DVD if you are not connecting DVD AUDIO OUT when you made either S-video or component video out connection.
- Progressive signal will not be output from the VIDEO OUT or S-VIDEO OUT jack.

To set progressive scan mode, refer to page 105

• This unit is compatible with the progressive scan system. The feature provides you the higher quality images than the traditional output system. To utilize this feature, you must set "Progressive" to "ON".

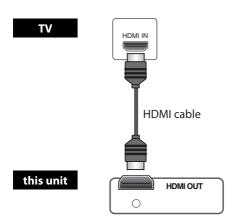
After you have completed the connections

• Switch the input selector on your TV to an appropriate external input channel. Press a button on the TV's original remote control that selects an external input channel until the DVD recorder's opening picture appears. Check your TV owner's manual for details.

CONNECTION TO A TV WITH AN HDMI[™] COMPATIBLE PORT

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A simple 1-cable connection with a device having an HDMI (high-definition multimedia interface) connector allows digital transfer of both digital video signals and multi-channel audio signals.



When connecting with an HDMI cable, the audio signal will be output as the digital audio signal simultaneously, so you do not need the analog audio connection described on page 22.

Cables not included.

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Please purchase the necessary cables at your local store.

HDMI Mode and Actual Output Signals

Press [HDMI] to select the HDMI output mode. The output mode changes as follows every time [HDMI] is pressed.

≻_	Front Panel Display	Video Output Signal
	មពីពីពី មើម	480 Progressive
_	Press [HDMI]	_
[កិរិកិតិ (រូប្រ	720 Progressive
_	Press [HDMI]	
	1080 c	1080 interlaced
	Press [HDMI]	
		1080 Progressive
	Press [HDMI]	

• The HDMI mode that is not supported by display device will be skipped.

lio signal simultaneous ery time **[HDMI]** is pres

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CONNECTION TO A TV WITH AN HDMI[™] COMPATIBLE PORT

Actual output mouto by mean					
Audio recording format of the disc		Dolby Digital setting of this unit	Actual output		
	Dallay Disital	РСМ	2channel PCM		
DVD-video	Dolby Digital	Stream	Dolby Digital		
DVD-Video	LPCM	РСМ	2channel PCM		
		Stream			
DivX®	Dallay Disital	РСМ	2channel PCM		
	Dolby Digital	Stream	Dolby Digital		
		РСМ	- 2channel PCM		
	MP3 / MP2	Stream			

For audio CD and MP3 / WMA files, 2 channel PCM will be output regardless of the "Dolby Digital" setting. If the connected device is not compatible with HDMI BITSTREAM, audio will be output as PCM even if you select "Stream" in "Dolby Digital" setting (Refer to page 100).

Copyright protection system

Actual Output Modes by Media

To play back the digital video images of a DVD via an HDMI connection, it is necessary that both the player and the display device (or an AV amplifier) support a copyright protection system called HDCP (high-bandwidth digital content protection system). HDCP is copy protection technology that comprises data encryption and authentication of the connected AV device. This unit supports HDCP. Please read the operating instructions of your display device (or AV amplifier) for more information.

*HDMI: High Definition Multimedia Interface

Note

- Because HDMI is an evolving technology, it is possible that some devices with an HDMI input may not operate properly with this unit.
- When using an HDCP-incompatible display device, the image will not be viewed properly.
- Among the devices that support HDMI, some devices can control other devices via the HDMI connector; however, this unit cannot be controlled by another device via the HDMI connector.
- The audio signals from the HDMI connector (including the sampling frequency, the number of channels and bit length) maybe limited by the device that is connected.
- Among the monitors that support HDMI, some do not support audio output (for example, projectors). In connections with device such as this unit, audio signals are not output from the HDMI output connector.
- When this unit's HDMI connector is connected to a DVI-D compatible monitor (HDCP compatible) with an HDMI-DVI converter cable, the signals are output in digital RGB.
- If the connected equipment is not compatible with HDMI BITSTREAM, DTS sound will not be output.
- When the power failure occurs, or when you unplug the unit, some problems in the HDMI setting might occur. Please check and set the HDMI setting again.

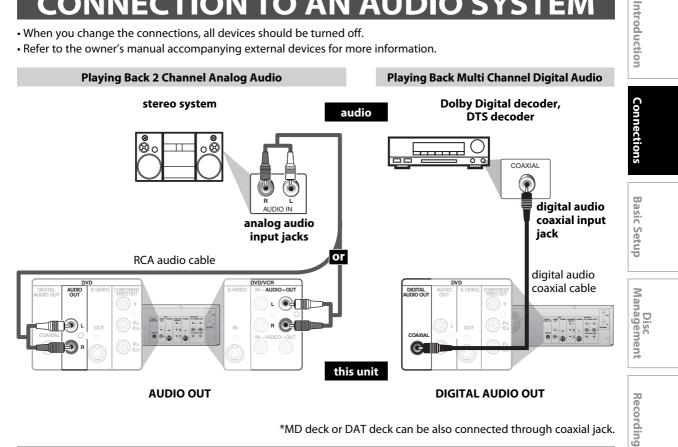
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CONNECTION TO AN AUDIO SYSTEM

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• When you change the connections, all devices should be turned off.

• Refer to the owner's manual accompanying external devices for more information.



*MD deck or DAT deck can be also connected through coaxial jack.

Supplied cables used in this connection are as follows:
• RCA audio cable (L/R) x 1
Please purchase the rest of the necessary cables at your local store.

Multi Channel Digital Audio Setting

Setting	Setup >General Setting >Playback >Audio Out >		
Connection	Dolby Digital	DTS	
If output is Dolby Digital encoded audio, connect to a Dolby Digital decoder.	Stream	OFF	
If output is DTS encoded audio, connect to a DTS decoder.	РСМ	ON	
If output is encoded audio for both Dolby Digital and DTS, connect to the decoder which encodes multiple audio sources.	Stream	ON	
Connecting to an MD deck or DAT deck.	РСМ	OFF	
If not connected to any external devices.	РСМ	OFF	

* To complete these settings, refer to page 100.

Note

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- The DVD AUDIO OUT and DIGITAL AUDIO OUT jacks are only useful in DVD mode.
- The audio source on a disc in a Dolby Digital multi channel surround format cannot be recorded as digital sound by an MD or DAT deck.
- By connecting this unit to a Dolby Digital decoder, you can enjoy high-quality Dolby Digital multi channel surround sound as heard in the movie theaters.
- By connecting this unit to the DTS decoder, you can enjoy Multi-channel Surround System which reproduces the original sound as truthfully as possible. Multi-channel Surround System is developed by the DTS, Inc.
- Playing back a DVD using incorrect settings may generate noise distortion and may also damage the speakers.

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INITIAL SETTING

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When turning on this unit for the first time, you need to follow these steps.

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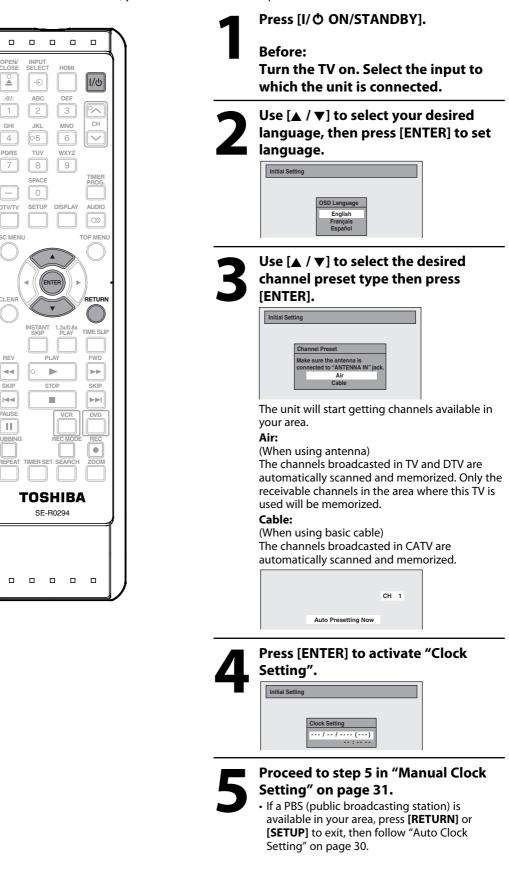
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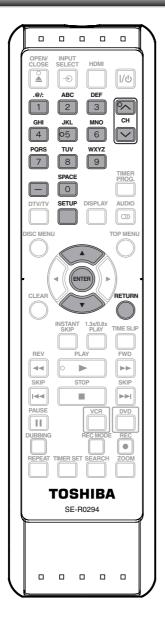
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CHANNEL SETTING

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If you have changed antenna connection, we recommend that you program available channels in your area with the following procedures.

Auto Channel Scan



Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [ENTER].

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Use [▲ / ▼] to select "Channel", then press [ENTER]. "Channel" menu will appear.

Use [▲ / ▼] to select "Auto Preset", then press [ENTER].

Use $[\blacktriangle / \nabla]$ to select the type of broadcasting signal, then press [ENTER].

Playback Display		Auto Preset
Video	Auto Prese	
Recording Clock	Air	lect
Channel DivX	Cable	ended Scan)

The unit will start getting channels available in your area.

Air:

(When using antenna)

The channels broadcasted in analog TV and digital TV are automatically scanned and memorized. Only the receivable channels in the area will be memorized.

Cable:

(When using basic cable) The channels broadcasted in analog CATV are automatically scanned and memorized.

Cable (Extended Scan):

(When using basic cable)

The channels broadcasted in analog CATV and digital CATV are automatically scanned and memorized.

To cancel the auto channel preset during scanning:

Press [RETURN] or [SETUP] to cancel.

When scanning is over, press [SETUP] to exit.

To cycle through only the memorized channels, use [CH ∧ / ∨].

To select a channel directly (including the ones not memorized), use [the Number buttons] and [-] (for digital TV channels).



Note

received.

channels.

If the auto channel preset is canceled during

presetting, some channels not yet preset may not be

• The selection will depend on how you receive the TV

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Adding/Deleting Channels

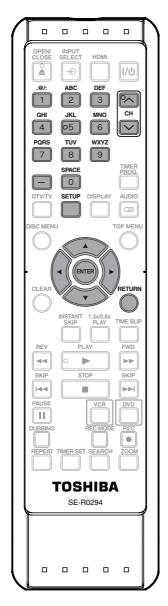
You may want to add or delete TV channels if your channel lineup changes or if you no longer watch some channels.

Adding channels is only available for the analog TV channels.

Make sure

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• You perform "Auto Channel Scan" before adding or deleting the channels.



Press [DTV/TV] to select the mode (DTV or TV) to/from which you want to add or delete channels.



Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [ENTER].



Use $[\blacktriangle / \heartsuit]$ to select "Channel", then press [ENTER].

"Channel" menu will appear.



Use [▲ / ▼] to select "Manual Preset", then press [ENTER].

"Manual Preset" menu will appear.

- If you are adding or deleting analog TV channels, go to **ANALOG** on page 29 to continue.
- If you are deleting digital TV channels, go to DIGITAL on page 29 to continue.



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CHANNEL SETTING

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ANALOG

Select the channel number to add or delete.

- Use [CH ∧ / ∨] to cycle through only the memorized channels.
- Use [◄/▶] to cycle through all the channels including the ones not memorized.
- Use [the Number buttons] to select a channel directly.
- When a memorized channel is selected, "Add" is checked and highlighted as a default.
- When an unmemorized channel is selected, "Delete" is checked and highlighted as a default.

6

Use [▲ / ▼] to select "Add" or "Delete", then press [ENTER].

CH Manual Preset

CH 2	
Add Delete	
DOIOTO	

Your setting will be activated and it will automatically switch to the next channel so that you can continue adding or deleting channels.

Press [SETUP] to exit.

DIGITAL

Select the channel number to delete.

- Only the major channel is displayed in "Manual Preset" menu. (The channel number displayed in the parenthesis is a virtual channel number)
- Use [CH ^ / V] to cycle through only the memorized channels.
 - You cannot use [◀/▶] for the digital TV channel selection.
 - Use [the Number buttons] to select a channel directly.
 - When an unmemorized channel is selected "Delete" is checked and highlighted as a default.

Use [▲ / ▼] to select "Delete", then press [ENTER]. Then select the next channel to delete.

• If the setting is complete, press [RETURN] to activate "Manual Preset".



Your setting will be activated.

WARNING:

• For the digital TV channels, you cannot recover the deleted channels once they are deleted unless you perform the auto channel preset again.

Press [SETUP] to exit.

Playback Editing Function Setup

VCR Function

Others

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Disc Management

Recording

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Introduction



SETTING THE CLOCK

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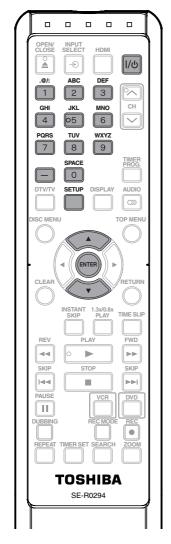
Set the clock before you try the timer programming. If a PBS (public broadcasting station) is available in your area, follow "Auto Clock Setting" below. If not, follow "Manual Clock Setting" on page 31.

Auto Clock Setting

This unit can set the time and date automatically by referring to a PBS station.

Make sure

- The antenna/cable TV connections are correct.
- Channels are set. (Refer to pages 27-29.)
- If this unit is connected to a cable/satellite box, select the local PBS station on them to set the clock automatically.



Note

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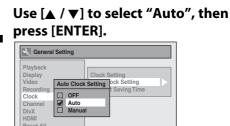
- The unit receives the clock data at 12:00 a.m/p.m from the PBS channel when the power is off.
- The clock may set itself automatically after this unit receive the antenna/cable signal and plug in the power cord.
- Only the analog PBS channel signal is effective for auto clock setting.

Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [ENTER].

Use $[\blacktriangle / \nabla]$ to select "Clock", then press [ENTER]. "Clock" menu will appear.



Use [▲ / ▼] to select "Auto Clock Setting", then press [ENTER].



Press [SETUP] to exit.



Press [I/ ON/STANDBY] to turn off the unit.

This unit will search for the time only when the power is off. Leave it off for several minutes to give this unit time to set the clock.

If the unit chooses an incorrect PBS channel, set the PBS channel manually by following the steps below.



Select "Manual" at step 4, then press [ENTER].



Use [the Number buttons] or [▲ / ▼] to enter your PBS channel number, then press [ENTER].



unit.

Press [SETUP] to exit and turn off the

30 EN

SETTING THE CLOCK

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Manual Clock Setting



Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [ENTER].

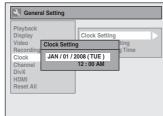


Use [▲ / ▼] to select "Clock", then press [ENTER]. "Clock" menu will appear.

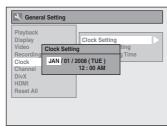
Use [▲ / ▼] to select "Clock Setting", then press [ENTER].



Use [▲ / ▼] to select calendar or time, then press [ENTER].



Use [◀/▶] to select an item to set, and use [▲ / ▼] to select the contents to suit your preference, then press [ENTER].



Your setting will be activated. The clock start counting when you press [ENTER].



Press [SETUP] to exit.

Note

- Your clock setting will be lost if either there is a power failure or this unit has been unplugged for more than 30 seconds when you set the clock manually.
- For setting the day, year, hour and minute, [the Number buttons] can also be used.
- You can set the built-in calendar from the year 2007 up to 2057.

Daylight Saving Time

When "Daylight Saving Time" is "ON", the unit clock will automatically adjust the time in order to fit the daylight saving time.

"ON (MAR - NOV)" has been selected as the default.

Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [ENTER].



Use [▲ / ▼] to select "Clock", then press [ENTER]. "Clock" menu will appear.

Use [▲ / ▼] to select "Daylight Saving Time", then press [ENTER].

Use [▲ / ▼] to select "ON (MAR -NOV)", "ON (APR - OCT)" or "OFF", then press [ENTER].

Genera	Setting			
Playback Display Video Recording Clock Channel DivX HDMI Reset All		Clock Sett aving Time AR - NOV) PR - OCT)	ing etting ng Time	

ON (MAR - NOV):

Move forward one hour on the second Sunday in March and move back one hour on the first Sunday in November.

ON (APR - OCT):

Move forward one hour on the first Sunday in April and move back one hour on the last Sunday in October.

Press [SETUP] to exit.

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Introduction

Connections

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TUNER SETTINGS

Switching Analog Mode / **Digital Mode**

You can easily switch the analog TV (NTSC) and digital TV (ATSC) with the remote control.

Press [DTV/TV] on the remote control.

The analog mode and digital mode switch alternately.

Note

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· When you switch the analog mode to the digital mode, it may take awhile until the digital channel selection is completed. The following screen is displayed while switching the mode.

		DTV 2-1	
	Now Scanning		

Channel Selection

Select channels by using [CH \land / \checkmark] or [the Number buttons] on remote control.

$[CH \land / \lor]$

Use [CH \land / \checkmark] to change the channel.

[the Number buttons]

Press the channel number with [the Number buttons] to select a channel you want to watch.

<Analog TV channels>

Enter the channel number with [the Number buttons] to select a channel you want to watch.

For 1-digit number e.g.) 2 ch:

[0] + **[2]**, **[2]** + **[-]** or [2] + leave it for 2 seconds.

For 2-digit number

e.g.) 25ch: [2] + [5]

<Digital TV channels>

Enter the major and minor channel number with [the Number buttons] to select a channel you want to watch. For 1-digit number

e.g.) 2-2 ch:

major channel [0] + [2] or [2] + [-] [0] + [2], [2] + [-] or minor channel

[2] + leave it for 2 seconds. For 2-digit number

e.g.) 35-16ch: major channel [3] + [5]

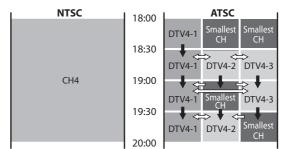
- [1] + [6] minor channel • If you enter 1 digit for major channel and leave it for 2
- seconds, the number will be taken as the major channel and lowest minor channel of the major channel will be displayed.
- If there is no minor channel input, lowest minor channel of the major channel will be displayed.

Note

• In digital TV broadcasting, 2 or more channels, called minor channels, are simultaneously broadcast on one main channel, called major channel.

About minor-channel broadcasting:

There may be different programs being broadcast on minor channels through a single channel from ATSC. You can watch each minor channel program being broadcast by selecting one of the minor channels.



→ : change automatically

 \Rightarrow : change manually by using [CH \land / \checkmark]

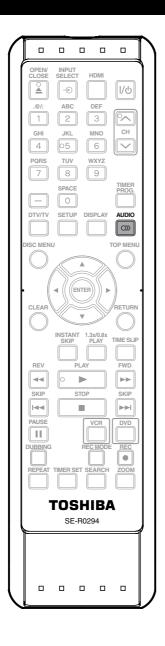
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Digital TV

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This section describes how to switch the TV audio. When you record a TV program, only output sound channel will be recorded.

Selecting TV Audio



Introduction Connections Press [AUDIO CDD] to cycle through available audio languages. English 1/2 Management When you press [AUDIO CDD], selected language will be displayed on the TV screen. Disc • Every time you press [AUDIO CDD], the language will be switched. e.g.) English $1/3 \rightarrow$ Spanish $2/3 \rightarrow$ Other 3/3 Available languages differ depending on the broadcast. Recording • The information display will automatically disappear. • When you record digital TV broadcasting, the audio language you have selected will be recorded. ۲ Playback Editing **Function Setup** VCR Function Others ΕN 33

Note

- The timer recording for digital TV cannot record any audio language other than English.
- [AUDIO CD)] does not control external device audio.
- When there is only one audio channel on the broadcast, pressing [AUDIO I] does not display anything.

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Selecting TV Audio (cont'd)

.@/

GHI

4

PQRS 7

DTV/TV

SC MENU

CLE/

SKIP

I-

PAUSE

П UBB

REPE

STOP

TIMER SE

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INPUT SELECT

->

ABC

JKL

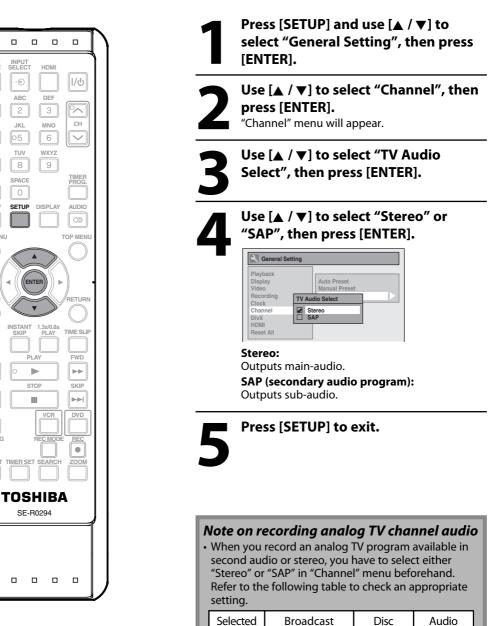
05

TUV

8

SPACE

Analog TV



Selected Broadcast Audio Disc audio audio recording output STEREO+SAP STEREO Stereo STEREO STEREO **STEREO STEREO** MONO+SAP MONO MONO MONO MONO MONO SAP STEREO+SAP SAP SAP **STEREO** STEREO **STEREO** MONO+SAP SAP SAP MONO MONO MONO

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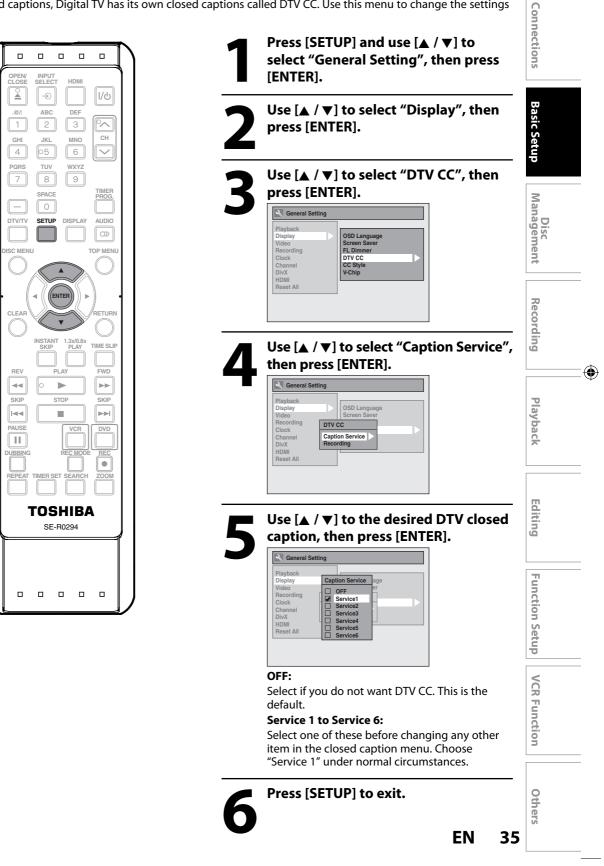
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DTV Closed Caption

Digital TV

Apart from closed captions, Digital TV has its own closed captions called DTV CC. Use this menu to change the settings for DTV CC.



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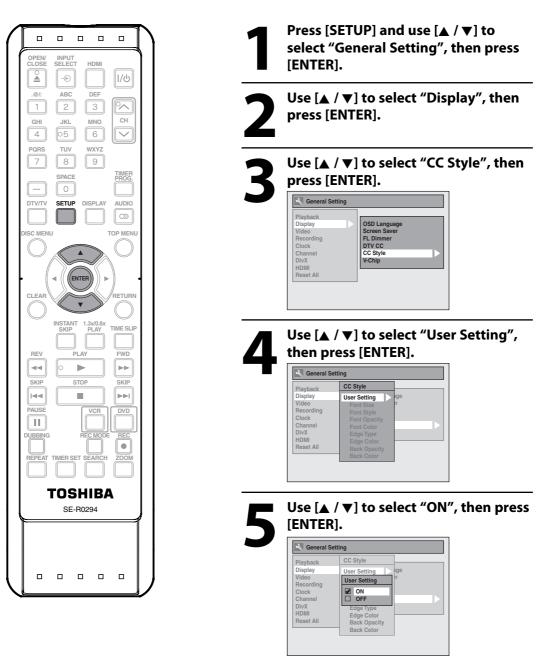
Introduction

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Closed Caption Style

Digital TV

Digital TV can also change the style of its closed caption such as font, color or size, etc.



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TUNER SETTINGS

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Use [▲ / ▼] to select the item and switch the setting for each item you want to set, then press [ENTER].

- When "User Setting" is set to "ON", you can set the following items. CC style set by "User Setting" will be displayed.
- The setting description for each item is shown below.

Font size of the displayed caption can be switched as below.

Playback	CC Style	
Display	User Setting	ige
Video	Font Size] er
Recording		
Clock Channel	Large Middle	
DivX		
HDMI	Edge Color	J
Reset All	Back Opacity	
	Back Color	

Font style of the displayed caption can be switched as below.

Playback	Font Style	
Display	Style1 ige	
Video	Style2	
Recording	Style3	
Clock	Style4	
Channel	Style5	
DivX	Style6	
HDMI	Style7	
Reset All	Style8	
	Back Color	

Font opacity of the displayed caption can be switched as below.

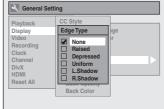
Playback	CC Style	
Display	User Setting	le
Video Recording	Font Opacity	
Clock Channel	Solid	
DivX	Translucent	
HDMI	Flash	
Reset All	Back Opacity Back Color	

Font color of the displayed caption can be switched as below.

Playback	Font Color	
Display	White	ige
Video	Black	er
Recording	Bed	
Clock	Green	
Channel	Blue	
DivX	Yellow	
HDMI	Magenta	
Reset All	Cyan	
	Back Color	1

<Edge Type>

Edge type of the displayed caption can be switched as below.



<Edge Color>

Edge color of the displayed caption can be switched as below.

General Setti	ng	
Playback Display Video Recording Clock Channel DivX HDMI Reset All	Edge Color White Edge Color Black Red Green Blue Yellow Magenta Cyan Back Color	ige if

<Back Opacity>

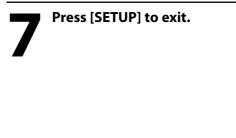
Background opacity of the displayed caption can be switched as below.

Dlaubaak	CC Style	
Playback Display	User Setting 19e	
Video Recording	Back Opacity	
Clock	Solid Transparent	
DivX	Translucent	
HDMI Reset All	Back Opacity	
1100017411	Back Color	

<Back Color>

Background color of the displayed caption can be switched as below.

Playback	Back Color	
Display	White ge	
Video	Black Pr	
Recording	Bed Red	
Clock	Green	
Channel	Blue	
DivX	Yellow	
HDMI	Magenta	
Reset All	Cyan	
	Back Color	



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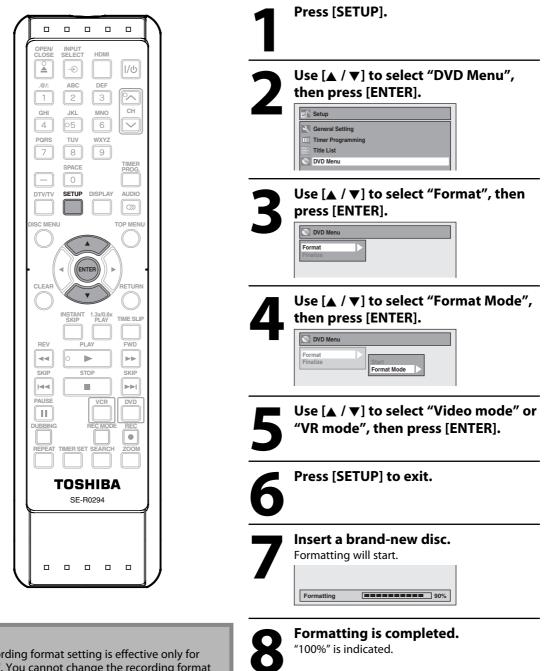
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Introduction

FORMATTING A DISC

Choosing the Recording Format of a Brand-New DVD-RW

When inserting a brand-new DVD-RW or DVD+RW, the unit automatically starts to initialize the disc. DVD+RW will always be formatted in +VR mode, and DVD-RW will be formatted either video or VR mode according to the recording format mode setting of the unit. Before insert a brand-new DVD-RW, you need to set the recording format to the desired mode. You can also manually format a DVD-RW once it has been used.



Note

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- The recording format setting is effective only for DVD-RW. You cannot change the recording format for a DVD-R and DVD+RW/+R.
- You cannot mix two formats on one DVD-RW. If you insert a disc that has been recorded before, the recording format cannot be changed even if you change it in the main menu.

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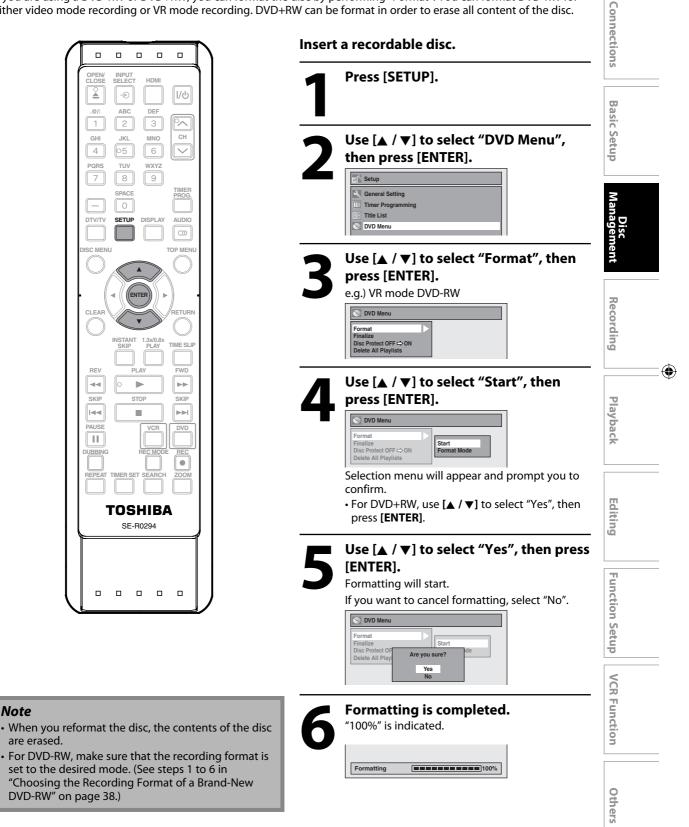
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FORMATTING A DISC

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Reformatting a Disc Manually

If you are using a DVD-RW or DVD+RW, you can format the disc by performing "Format". You can format DVD-RW for either video mode recording or VR mode recording. DVD+RW can be format in order to erase all content of the disc.



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Note

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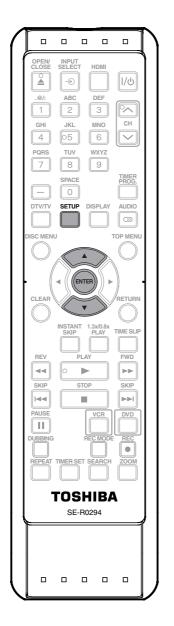
Introduction

SETTING A DISC TO PROTECT

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To prevent accidental recording, editing or erasing the titles, you can protect them from "DVD Menu" menu.



Press [SETUP].



Use [▲ / ▼] to select "DVD Menu", then press [ENTER].



Use [▲ / ▼] to select "Disc Protect OFF → ON", then press [ENTER]. e.g.) VR mode DVD-RW





Use $[\blacktriangle / \triangledown]$ to select "Yes", then press [ENTER].

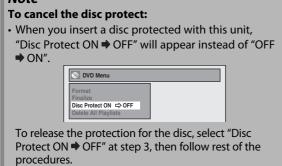
Format Finalize		
Disc Protect OF Delete All Play	Protect this disc?	
	Yes No	
_		

A disc will be protected.

This operation may take awhile to be completed.

Note

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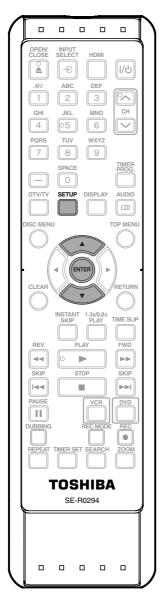
40 ΕN ()

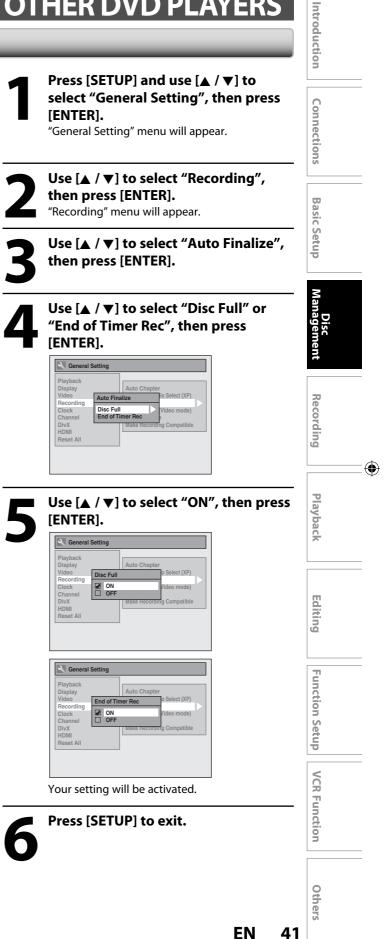
PLAYING THE DISCS IN OTHER DVD PLAYERS

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Auto Finalizing

You can finalize discs automatically using this function. You can use this function to finalize discs after finishing all timer recordings and at the end of the disc space.





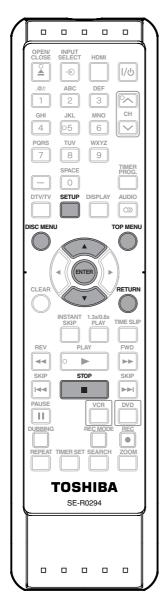
PLAYING THE DISCS IN OTHER DVD PLAYERS

Finalizing a Disc

CODE THE CODE CODE CODE CODE +RW

You will need to finalize discs to play back on other DVD players.

Finalizing may take several minutes up to an hour. Since the process of the finalization fills empty space of the disc, a shorter recording period on the disc will require a longer time period for finalization. Do not unplug the power cord during finalization.



Press [SETUP].



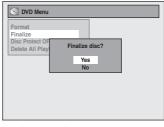
Use [▲ / ▼] to select "DVD Menu", then press [ENTER]. "DVD Menu" menu will appear.

2

Use $[\blacktriangle / \heartsuit]$ to select "Finalize", then press [ENTER].



e.g.) VR mode DVD-RW



Finalizing will start.



This operation may take awhile to be completed.

Finalizing is completed.

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PLAYING THE DISCS IN OTHER DVD PLAYERS

Note

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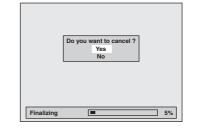
- Finalizing a disc in video mode and +VR mode automatically creates a title menu.
- After you finalize the DVD+RW, you can call up the title list by pressing [**TOP MENU**], or you can call up the title menu by pressing [**DISC MENU**].
- Even after DVD+RW is finalized, you can still record or edit. After you finalize DVD-RW/-R or DVD+R, you cannot edit or record anything else on that disc.
- If you insert a DVD-RW finalized with this unit, "Undo Finalization" will appear instead of "Finalize" at step 3.
- To release the finalization of the DVD-RW disc, select "Undo Finalization" at step 3.



- To undo the finalization of the DVD+RW, make an additional recording onto the disc.
- DO NOT power off during finalizing. This may result in a malfunction.
- For DVD+RW, if you have added or deleted chapters, or made chapters hidden, you must finalize the disc before being able to see those effects on other units. To play back discs other than DVD+RW on other DVD players, you will need to finalize.

To cancel finalizing... (DVD-RW only)

Press **[STOP**] during the finalizing is in progress. Use $[\land / \lor]$ to select "Yes", then press **[ENTER]**. Finalizing is canceled and the unit switches to stop mode.



If " \bigcirc " appears when [**STOP**] is pressed, you cannot cancel finalizing because the finalizing has already reached at a critical point in its process.

If "No" is selected and **[ENTER]** or **[RETURN]** is pressed, finalizing is continued.

You cannot cancel finalizing a DVD-R, DVD+R and DVD+RW once it has started.

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INFORMATION ON DVD RECORDING

Recording Mode

You can select a recording mode among 5 options, and the recording time will depend on the recording mode you select as follows.

Decording mode	Recording time		Video/
Recording mode	12cm	8cm	Sound Quality
ХР	60 min	18 min	****
SP	120 min	36 min	***
LP	240 min	72 min	***
EP	360 min	108 min	**
SLP	480 min	144 min	☆

- The recording times listed above are estimates and are for reference purposes only. Actual recording times may vary.
- The audio and video quality of content being recorded may differ depending on the recording mode/recording time chosen.

Note

- This unit cannot record to CD-RW or CD-R.
- All high definition pictures will be down converted to the standard definition pictures when they are recorded on this unit.
- DVD-RW/-R, DVD+RW/+R and CD-RW/-R recorded on a personal computer or a DVD or CD recorder may not be played back if the disc is damaged or dirty or if there is condensation on the player's lens.
- If you record a disc using a personal computer, even if it is recorded in a compatible format it may not be played back because of the settings of the application software used to create the disc. (Check with the software publisher for more detailed information.)
- Discs recorded in video mode on this unit cannot record additional information using other DVD recorders.
- Since the recording is made by the VBR (variable bit rate) method, depending on the picture you are recording, the actual remaining time for recording may be a little shorter than the remaining time displayed on the TV screen.

Restrictions on Recording

You cannot record copy-protected program using this unit. Copy-protected video signal is included in DVDvideos, some satellite broadcasts, some pay-per-view stations and some "premium" stations.

If copy-protected material is detected, recording will pause or stop automatically and an error message appears on the screen.

"Copy-once only" video can only be recorded to CPRM compatible DVD-RW formatted in VR mode.

What is "CPRM"?

CPRM is a copy protection system with scramble system regarding the recording of "copy-once" broadcast programs. CPRM stands for Content Protection for Recordable Media.

This unit is CPRM compatible, which means that you can record copy-once broadcast programs, but you cannot make another copy of those recordings. CPRM recordings can only be made on CPRM compatible DVD-RW formatted in VR mode, and CPRM recordings can only be played back on DVD players that are specifically compatible with CPRM.

Making discs playable in other DVD players (Finalize)

For DVD-RW/-R, it is necessary to finalize the disc after recording, in order to play back the disc on other DVD players. (Refer to pages 41-43.) For DVD+RW/+R, it is recommended to finalize the disc in order to make the disc more compatible to other DVD player. When video and +VR mode disc are finalized, a title menu is created. You cannot finalize discs in other DVD recorders.

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SETTINGS FOR A RECORDING

Make Recording Compatible

Use this feature to make the discs recorded on other unit recordable on this unit. When you make an additional recording on this unit with "Make Recording Compatible" set to "ON", the title list is automatically converted to our style.

- 1) Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [ENTER].
- Use [▲ / ▼] to select "Recording", then press [ENTER].

"Recording" menu will appear.

- 3) Use [▲ / ▼] to select "Make Recording Compatible", then press [ENTER].
- 4) Use [▲ / ▼] to select "ON" or "OFF", then press [ENTER].

Playback Display		Auto Chapter
Video Recording Clock Channel	Make Reco	ording Compatible elect (XP) eo mode)
DivX HDMI Reset All		Make Recording Compatible

- **ON:** Title list will be replaced when you make additional recordings to the discs recorded by other units.
- **OFF:** Prohibiting additional record to the disc that has a title list created by other units.

5) Press [SETUP] to exit.

Note

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• This function is also available for unfinalized DVD+R.

Setting for Auto Chapter

You can set a specified time for chapter marks.

- 1) Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [ENTER].
- 2) Use [▲ / ▼] to select "Recording", then press [ENTER]. "Recording" menu will appear.

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- 3) Use [▲ / ▼] to select "Auto Chapter", then press [ENTER].
- 4) Use [▲ / ▼] to select a desired time option, then press [ENTER].

General S	Setting	
Playback Display	Auto Chapter	
Video	Auto Chapter	Select (XP)
Recording Clock Channel	OFF 5 minutes	ideo mode)
DivX HDMI	 ☑ 10 minutes ☑ 15 minutes 	Compatible
Reset All	30 minutes 60 minutes	

5) Press [SETUP] to exit.

Note

- The interval for auto chapter may be up to two minutes different from the time option you set.
- A blank chapter may be created depending on the remaining time of the disc.

Recording the DTV Closed Caption

You can record the DTV Closed Caption as the part of the image for the recording program and see the recorded closed caption even with the TV that is not closed caption compliant.

- Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [ENTER].
- 2) Use [▲ / ▼] to select "Display", then press [ENTER].
- 3) Use [▲ / ▼] to select "DTV CC", then press [ENTER].
- 4) Use [▲ / ▼] to select "Recording", then press [ENTER].
 If the "Caption Service" is set to "OFF", you cannot select "Recording".

5) Use [▲ / ▼] to select "ON", then press [ENTER].

Playback	
Display	OSD Language
Video	Screen Saver
Recording	Recording
Clock	
Channel	OFF
DivX	

6) Press [SETUP] to exit.

Note

• If the "Caption Service" is set to "OFF", the caption will not be recorded.

SETTINGS FOR A RECORDING

Recording Audio Select (XP)

You can enjoy high quality sound recording. This function works only when the recording mode is set at XP.

- 1) Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [ENTER].
- Use [▲ / ▼] to select "Recording", then press [ENTER].

"Recording" menu will appear.

- Use [▲ / ▼] to select "Recording Audio Select (XP)", then press [ENTER].
- Use [▲ / ▼] to select "PCM" or "Dolby Digital", then press [ENTER].

Playback Display	Auto Chapter
Video	Recording Audio Select (XP)
Recording	D PCM mode)
Channel	Dolby Digital
DivX	Make Recording Compatible
HDMI	
Reset All	

PCM:

Records PCM audio for the best quality sound. **Dolby Digital:**

Records Dolby Digital audio for good quality sound.

5) Press [SETUP] to exit.

Note

- "PCM" stands for Pulse Code Modulation. It changes analog sound to digital sound without compressing audio data.
- When the recording mode is set at other than XP, the unit records "Dolby Digital" audio automatically even if you selected "PCM".

Setting Aspect Ratio for Video Mode Recording

ODVD -RW VIDEO MODE

You can set aspect ratio for video mode recording.

- 1) Follow step 1 to 2 on "Recording Audio Select (XP)".
- Use [▲ / ▼] to select "Aspect Ratio (Video mode)", then press [ENTER].
- 3) Use [▲ / ▼] to select your desired setting, then press [ENTER].

Display			Auto Chapter	
Video Recording	Aspe	ct Ratio	o (Video mode)	Select (XP)
Clock	🛃 A	uto		ideo mode)
Channel DivX		:3 6:9		Compatible
HDMI Reset All			· · · · · · · · · · · · · · · · · · ·	

Auto (default): It will be recorded with whichever the ratio that the program you started to record are broadcasted with.

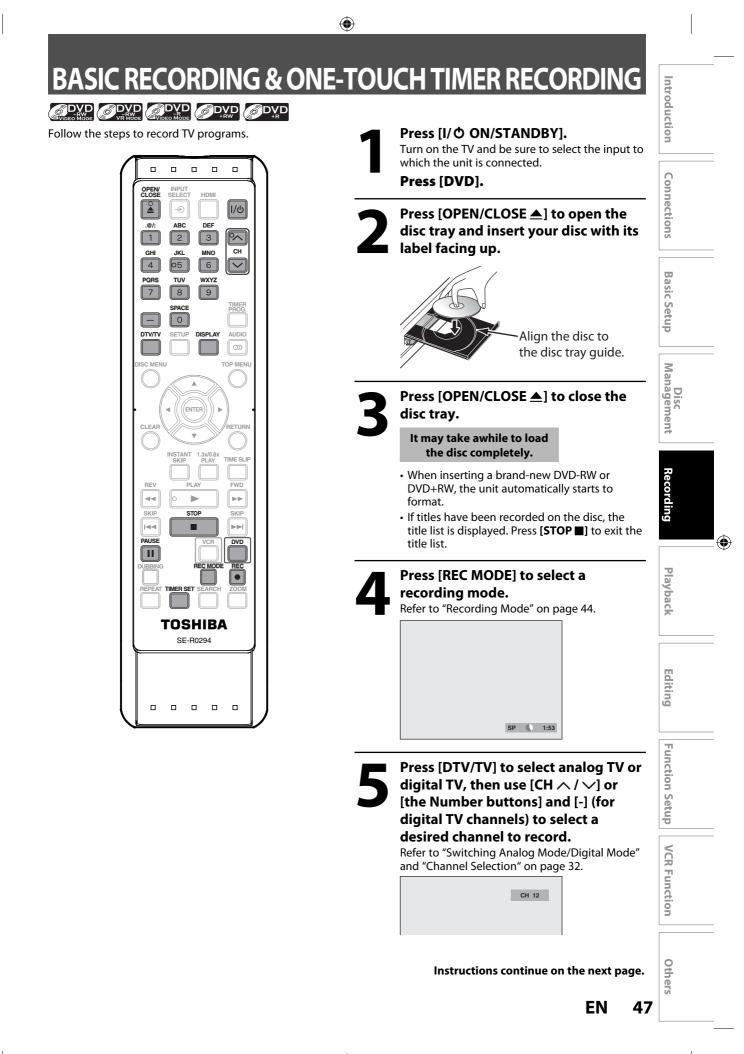
- **4:3**: Recorded in the aspect ratio of 4:3.
- 16:9: Recorded in the aspect ratio of 16:9.

4) Press [SETUP] to exit.

Note

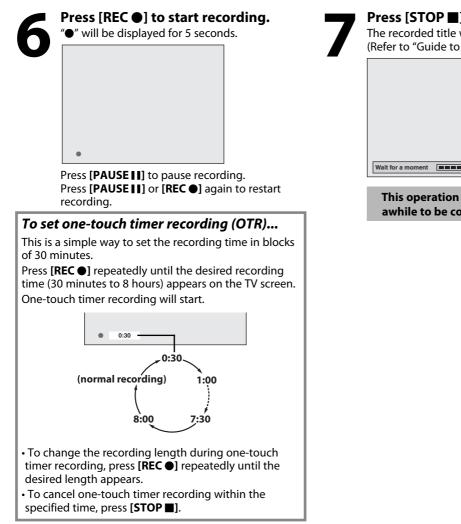
- For DVD-RW VR mode, the image will be recorded in whichever the ratio that the program you record are broadcasted with, regardless of the "Aspect Ratio (Video mode)" setting.
- For DVD+RW/+R, the image will always be recorded in aspect ratio of 4:3.

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BASIC RECORDING & ONE-TOUCH TIMER RECORDING

(



Press [STOP ■] to stop recording.

The recorded title will be included in the title list. (Refer to "Guide to a Title List" on page 80.)



This operation may take awhile to be completed.

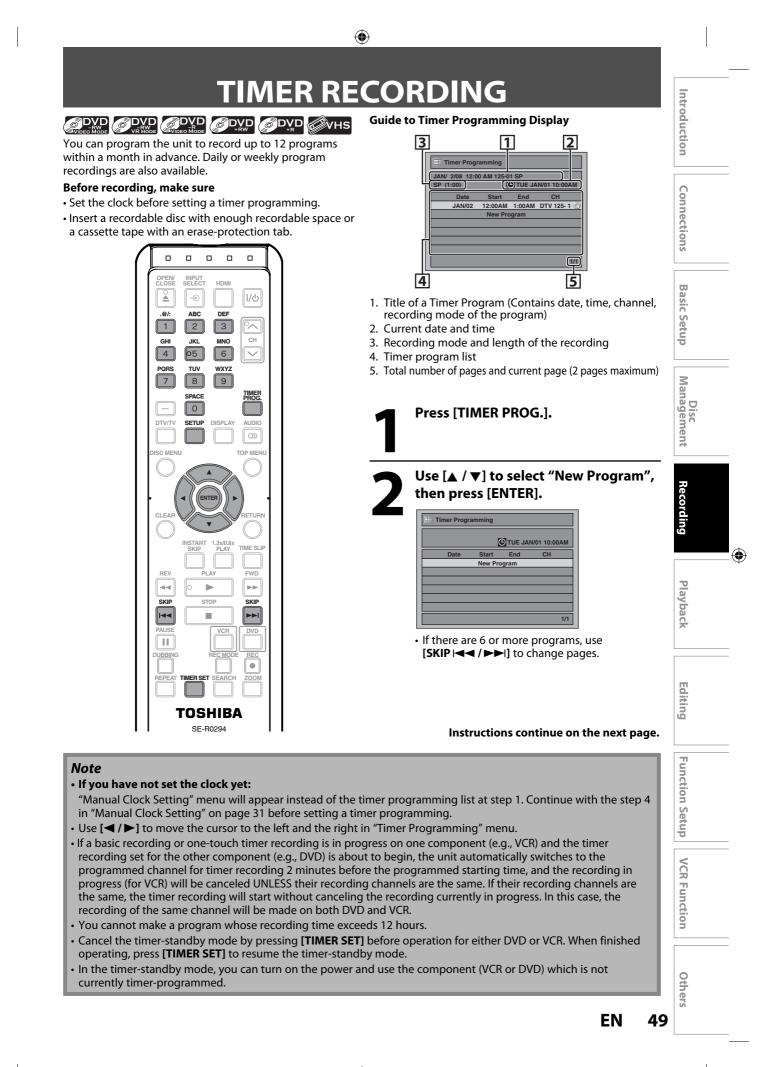
Note

- When you press [REC •], recording starts immediately and continues until the disc is full or you stop recording.
- When the unit clock has not been set, the space for a date and time of title names will be blank.
- When you record a TV program onto DVD-RW, DVD-R or DVD+RW/+R, you have to select the TV channel audio beforehand. Only the selected channel audio will be recorded. Refer to "Selecting TV Audio" on pages 33-34 for more details.
- You cannot change the recording mode during the recording pause mode.
- You can change a channel to be recorded during the recording pause mode.

Note for one-touch timer recording

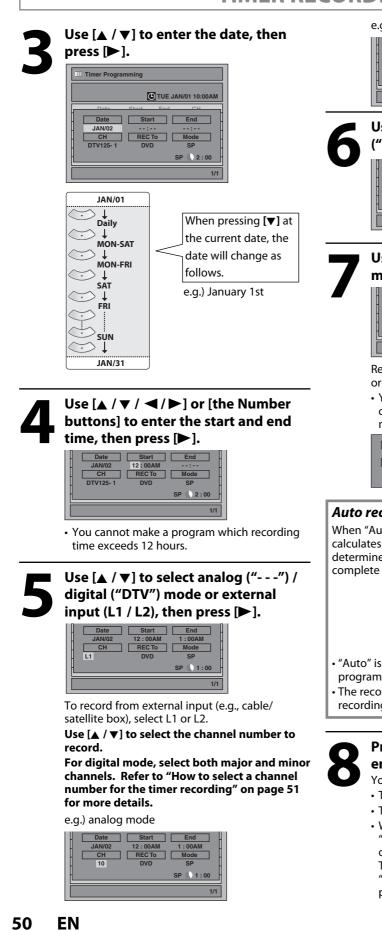
- The remaining recording time will be displayed on the front panel display during one-touch timer recording. Press [DISPLAY] to see it on the TV screen.
- Unlike the timer recording, you can perform the following operations during one-touch timer recording.
- Turning off the power (One-touch timer recording will be canceled.).
- Using [REC ●] or [STOP ■] on the remote control.
- You cannot use the pause function during one-touch timer recording.
- If DVD one-touch timer recording is completed during VCR playback or recording, the DVD will be in stop mode and the VCR keeps the current mode.
- When one-touch timer recording is finished and the power is turned off, the unit will switch to the timer-standby mode automatically if a timer recording has been programmed. Press [TIMER SET] to cancel the timer-standby mode to use the unit continuously.

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e.g.) digital mode

Date JAN/0 CH DTV125	12 12 : 00AM	End 1:00AM Mode SP SP 1:00
		1/1

Use [▲ / ▼] to select a recording media ("DVD" or "VCR"), then press [▶].

Date JAN/02 CH DTV125- 1	Start 12 : 00AM REC To DVD	End 1:00AM Mode SP
		SP 🌔 1:00
		1/1



Refer to "Recording Mode" on page 44 for DVD or "Recording" on page 110 for VCR.

SP 🕕 1:00

 You can check the remaining recordable space of the disc when you select the recording mode.



Auto recording mode select...

When "Auto" is selected as a recording mode, the unit calculates how much time is available on the disc and determines the appropriate recording mode to complete recording the program.



• "Auto" is only available for one program in the timer program list.

• The recording may be cut short, when the available recording space of the disc is too limited.

Press [ENTER] when all items are entered.

Your program setting will be stored.

- To set another program, repeat steps 2 to 7.
- To exit, press [TIMER PROG.] or [SETUP].
- When 2 or more programs are overlapped, "Timer program overlapped" appears, and the overlapped program will be displayed in blue. To correct the timer program refer to "Checking, canceling, or correcting the timer programming information" on page 52.

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Press [TIMER SET] to set a timer

programming.

(b) will appear on the front panel display, while this unit waits to make the recording.

DVD

Φ

"VCR" will appear on the front panel display if VCR timer recording have been set.

How to select a channel number for the timer recording			
Analog TV	For channel number 2-6, press [▶] or [–] to decide the channels. For other channels (7-69), the channel will be decided as soon as you enter the channel number.] .	
Analog CATV	For channel number 1-12, press [▶] or [–] to decide the channels. For other channels (13-125), the channel will be decided as soon as you enter the channel number.		
Digital TV	For major channel number 1-9, press [▶] or [–] after selecting the number with [▲ / ▼]. For the other channels (10-99), the channel will be decided as soon as you enter the channel number.		
Digital CATV	For major channel number 1-13, press [▶] or [–] after selecting the number with [▲ / ▼]. For the other channels (14-135), the channel will be decided as soon as you enter the channel number.		
minor channels	For channel number 1-9, press [▶] or [–] to decide the channels. For other channels (10-99), the channel will be decided as soon as you enter the channel number.		
<hint></hint>	•	1	

<Hint>

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• You can decide the 1-digit channel number by pressing 0 first , then enter desired 1-digit channel number. e.g.) "5": [0]+[5]

• For selecting the channels with [▲ / ▼], you need to press [▶] or [–] to decide the channel number.

For selecting the minor channels with [▲ / ▼], please make sure the minor channel you are selecting is existing.
 [▲ / ▼] does not skip the non-existed minor channels.



Function Setup

VCR Function

Others

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Connections

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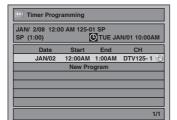
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Checking, canceling, or correcting the timer programming information

1) Press [TIMER SET].

2) Press [TIMER PROG.].

3) Check the information on the list you want to edit.



4-A) To delete the timer program:

- 1 Use [▲ / ▼] to select the program you want to delete, then press [ENTER].
- 2 Use [▲ / ▼] to select "Delete", then press [ENTER].
 - Selection menu will appear.
- 3 Use [▲ / ▼] to select "Yes", then press [ENTER].
- 4-B) To correct the timer program:
 - 1 Use [▲ / ▼] to select the program you want to correct, then press [ENTER].
 - 2 Use [▲ / ▼] to select "Program Change", then press [ENTER].
 - 3 Correct the timer program by using [▲ /▼ / ◀ / ▶], then press [ENTER].
- · · ·
- 5) Press [TIMER PROG.] to exit.
- 6) Press [TIMER SET] to return to the timer standby mode.

To stop the timer recording in progress

Press [STOP] to stop the disc recording or [A EJECT / STOP] to stop the cassette tape recording on the front panel of the unit.

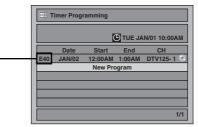
[STOP ■] on the remote control is not effective.

Note

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• Press [TIMER PROG.] to check the timer recording in progress.

When the timer recording is proceeding, that program will be highlighted in red. In this case, you cannot select any other program. If the timer program did not complete correctly, the error number appears in the timer programming list.



Each error number means:

	Recording error other than below Unrecordable disc Copy prohibited program	E40	Some portion has not been recorded because of program overlapping. Recording did not start at the start time.
E29	Disc protected	E41	Power failed
E30	Disc full	E42	No disc when recording
E31-32	Already 99 titles recorded	E43	Already 49 titles recorded
E33	Already 999 chapters recorded	E44	Already 254 chapters recorded
E34	No space for Control information	E45	Copy prohibited program
E35	PCA full *1	E46	It is impossible to record additionally
E36	Already finalized video format disc		on a disc recorded by other units when setting "Make Recording Compatible" to "OFF".

- A program with the error number is grayed in the timer programming list.
- Once the timer programming list with error line(s) is displayed, or after canceling and setting again the timer standby mode, the program line(s) with error will be cleared.
- *1 PCA is a disc's space reserved for recording test.

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Hints for Timer Recording

- If there is a power failure or this unit has been unplugged for more than 30 seconds, the clock setting and all timer programming will be lost.
- If a disc is not inserted or if a inserted disc is not recordable (finalized DVD-RW/-R, finalized DVD+RW, a fully recorded disc, etc.), "DVD" on the front panel display flashes and timer recording cannot be performed. In some cases, (b) will appear momentarily around the start point as the unit attempts to record. Please insert a recordable disc.
- If a cassette tape with an erase-protection tab is not in the cassette compartment or there is no cassette tape in the cassette compartment, "VCR" on the front panel display flashes and timer recording cannot be performed. Please insert a recordable cassette tape.
- If you press [TIMER SET] and turn on the unit while either DVD or VCR is in timer standby mode, 🕒 disappears. In this case, you cannot change the mode between DVD and VCR. You cannot change any settings using [SETUP] or edit discs.
- When all the timer recording is completed, 🕑 flashes. To play back or eject the recorded disc, press

[I/O ON/STANDBY] first, then select the recorded title and press [PLAY ▶], or [OPEN/CLOSE ▲] to remove the disc.

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Editing

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- During timer recording or timer standby mode (will appear), any operations on the unit will not be available. To make these operations available, press [STOP] on the front panel to cancel the timer recording or [TIMER **SET]** to release timer standby mode (will disappear).
- To cancel the timer standby mode, press [TIMER SET].
- When the starting and the ending time are the same, "Exceeds 12 hours" appears and the program setting will not be accepted.
- When the programmed starting and ending time are earlier than the current time, the setting will not be accepted.
- If the starting time is earlier and the ending time is later than the current time, the recording will start right after [TIMER SET] is pressed.
- The timer recording for digital TV cannot record any audio language other than English.
- The timer recording cannot be performed in DVD and VCR at the same time. If you set 2 programming with the same channel and time in both devices, the program with a lower program number will be recorded.

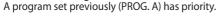
The Priority of Overlapped Settings

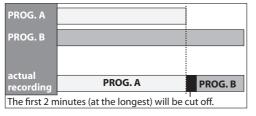
This unit records the programs according to priority if the timer programmings are overlapped. The timer programming set previously has priority.

A timer recording of lower priority will be canceled or start from the middle.

Check the overlapped timer programmings and change the priority if necessary.

When the starting time is the same:





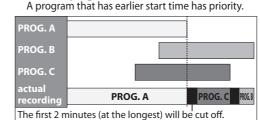
When the recording time is partially overlapped: PROG. A will start after PROG. B is complete to be recorded.

PROG. A			
PROG. B			
actual recording	PROG.B		PROG.A
The first 2 m	ninutes (at the longest) will be o	l cut	off.

Note for DVD recording

- When the recording time of 2 programs are overlapped, or the end time of a program and the start time of another program is the same, the first 2 minutes (at the longest) of the subsequent program will be cut off.
- If the cut-off portion comes up to 3 minutes or more, this program will be displayed with errors number E40 in the timer programming list.

When the starting time and the ending time for each programs are different:



When the recording time is entirely overlapped: PROG.A will not be recorded.

PROG. A	
PROG. B	
actual recording	PROG. B

When the end time of the programming currently being recorded and the start time of the subsequent program are same: The beginning of the PROG. B may be cut off.

of the s	ly being recorded a ubsequent progra inning of the PROG	m are same:	VCR Funct
PROG. A			tion
PROG. B			l F
actual recording	PROG. A	PROG. B	0
The first 2 m	inutes (at the longest) will be cut off.	thers

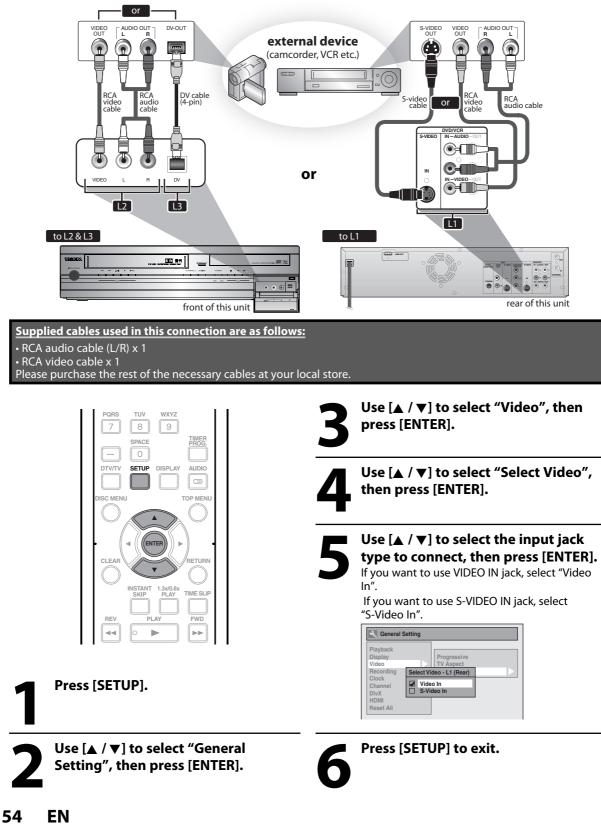
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SETTINGS FOR AN EXTERNAL DEVICE

Connection to an External Device

Connect the external device properly to the unit by using input jacks either L2 (Front) or L1 (Rear). When connecting an external device of monaural output to this unit, use AUDIO L jack of L2 (Front). Use S-video or the RCA audio/video cables for this connection.

When connecting a DVC (digital video camcorder), use the DV input jack on the front panel instead of VIDEO IN jack.

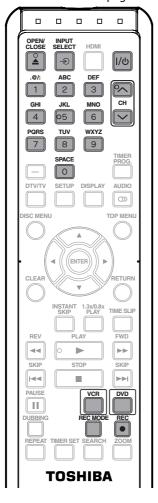


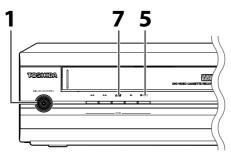
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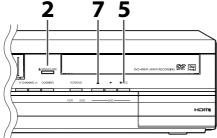
SETTINGS FOR AN EXTERNAL DEVICE

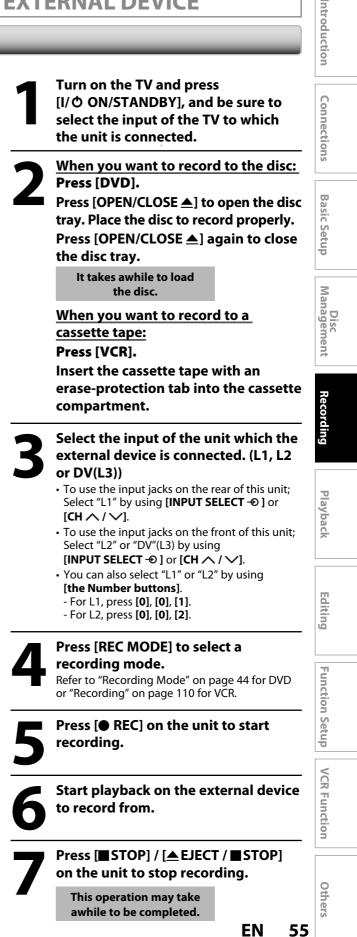
Recording from an External Device

Before recording from an external device, refer to the instructions for the connection on page 54.









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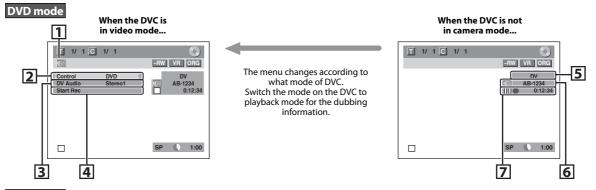
DV DUBBING

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Guide to DV and On-Screen Display

This function helps you to easily dub the contents of the DVC (digital video camcorder) to this unit.

You can control basic operations of the DVC from the remote control of this unit such as playback, fast forward or reverse and stop all operations if the DVC is in video mode. Use the DV cable that has 4-pin input jack and is compliance with the IEEE1394 standards. When you connect to DV input jack on the front of this unit, select "DV" position by using **[INPUT SELECT** \rightarrow] or **[CH** \wedge / \checkmark] on the remote control and press **[DISPLAY]** to show the DV dubbing information for the operation of your DVC.



VCR mode

You cannot control the DVC in VCR mode. For dubbing onto VCR, refer to page 58.

The following instructions are described with the operations using the remote control of this unit.

1.DV icon

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- 2. Indicator of active device
 - When the "Control" is highlighted, press [ENTER] to display the item selection. Use [▲ / ▼] to select the device you wish to operate, then press [ENTER] to activate.
 - Select "DVD" to control this unit.
- Select "DVC" to control your DVC.
- 3. Recording audio mode
- Other than the DVC is in stop mode, the "DV Audio" can be selected. Press [ENTER] to display the item selection and then use [▲ / ▼] to select the audio you wish to output. Press [ENTER] again to activate.
- Select "Stereo1" to dub the stereo sound.
- Select "Stereo2" to dub the sound with after recording sound.
- Select "Mix" to dub the stereo1 and stereo2.
- 4. Indicator of dubbing function
 - When the unit is ready for dubbing, "Start Rec" will appear.
 When the unit is in dubbing,
 - "Pause Rec" will appear.
- 5. Channel position
 - When you select "DV" by using [INPUT SELECT -⊙] or [CH ∧ / ∨], "DV" will appear.

6. Product name of your DVC

- If the unit cannot recognize the input signal from the DVC or the unknown product, "No Device" or "****" will appear instead.
- 7. Status of the current operation and the time counter

Each icon means (Available icons may vary depending on the DVC):

- DVC is in stop mode.
- \triangleright DVC is in playback mode.
- DVC is in pause mode.
- DVC is fast forwarding. (standard speed)

DVC is fast forwarding. (faster than above)

DVC is fast forwarding. (faster than above)

DVC is slow forwarding. (standard speed)

- DVC is slow forwarding. (faster than above)
- DVC is slow forwarding. (faster than above)

	DVC is fast forwarding.
	(in stop mode)
$\triangleleft \triangleleft \triangleleft $	DVC is fast reversing.
	(in stop mode)
\triangleright	DVC is fast reversing.
	(standard speed)
\supset	DVC is fast reversing.
-	(faster than above)
	DVC is fast reversing.
	(faster than above)
$\square \supset \square$	DVC is in slow reverse
	playback.
\bigcirc	DVC is in recording.
	DVC is in recording pause
	mode.

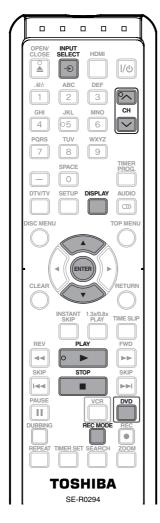
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DV DUBBING

DVC to DVD Dubbing

Before recording from DVC, see page 54 for connection instructions.

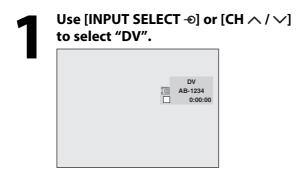


Press [DVD] first.

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Preparing for DV to DVD dubbing:

• Insert a recordable disc and make sure your DVC is in video mode.





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EN

Others

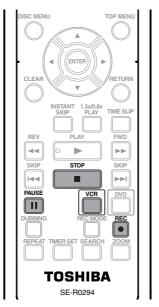
DV DUBBING

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DVC to VCR Dubbing

<u>с </u>vнs

Before recording from DVC, refer to page 54 for connection instructions.



Press [VCR] first.

Preparing for DV to VCR dubbing:

• Insert a recordable cassette tape and make sure your DVC is in video mode.

Press [REC ●] to start recording.
Press the PLAY button or the PAUSE
button on your DVC to resume the
playback.
The dubbing will start.
To pause the recording:
Press [PAUSE II] once.
"REC" will flash.

Repeat the steps 1 and 2 on page 57.

Press the PLAY button on your DVC to find where you wish to start dubbing. Then, press the PAUSE

button on the DV camcorder when you come to the desired start point.

To resume recording:

Press [**REC** ●] or press [**PAUSE II**] again. "REC" will reappear.

```
■ To stop recording, press [STOP ■].
```

Note for DV dubbing

- If you press [**PAUSE II**] at step 5 in "DVC to DVD Dubbing" on page 57, the tape will rewind to the point a few seconds preceding the paused point. When you press [**ENTER**] at step 6 in "DVC to DVD Dubbing" on page 57, then, it will start dubbing when it comes to the paused point.
- The unit does not send out the output signal to DVC.
- For the proper operation, connect DVC to the unit directly. Do not connect this unit and DVC via any other unit.
- Do not connect more than 1 DVC.
- The unit can only accept DVC. Other DV device such as cable/satellite box or D-VHS VCR cannot be recognized.
- If no video signal is detected from the DVC during DVC to DVD dubbing, the recording will be paused and "•" will flash on the TV screen. The recording will resume when the unit detects the video signal again.
- When the DVC is in camera mode, refer to "Guide to DV and On-Screen Display" on page 56.
- You cannot dub from DVC during timer standby mode.
- You cannot dub from DVC to the both DVD and VCR at the same time.
- You cannot change the output mode during DVC to VCR dubbing. If you want to switch to the DVD mode, stop the VCR first.
- During DVC to VCR dubbing, you cannot change channels while paused.
- When output is in DVD mode while playing back a DVD using DV(L3), you cannot switch to the VCR mode.
- If you are using anything other than DV(L3) to playback DVD, you can switch to the VCR mode, but cannot select DV(L3) channel. (You can select DV(L3) after switching to the DVD mode during VCR playback.)
- During timer standby of either component, you cannot select DV(L3) even on the component which is not in timer standby.
- Date / time and cassette memory data will not be recorded.
- Pictures with a copy-guard signal cannot be recorded.
- A DV terminal is a terminal that can use the transmission mode conforming to the IEEE 1394 standards called "Fire Wire". It serves as the interface that connects the PC and peripheral device such as "i.Link" (registered trademark of SONY). It enables digital dubbing between DV devices with little degradation.

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DVD/VCR DUBBING

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You can copy a DVD to a cassette tape or copy a cassette tape to a DVD. This function will be possible only if the DVD or the cassette tape is not copy protected. Before starting this function, prepare for the recording on the DVD-RW/-R or the cassette tape. Refer to pages 44 and 110.

Make sure:

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• Insert a recordable disc and a cassette tape with an erase-protection tab.

Note for recording to a cassette tape:

- The cassette tape's erase-protection tab is intact.
- The remaining time of the cassette tape is long enough.

Note for recording to a disc:

• Make sure that the disc is recordable. Refer to page 9.

Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [ENTER].

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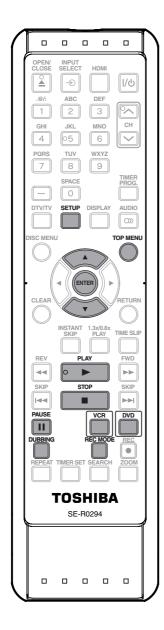
"General Setting" menu will appear.



Use [▲ / ▼] to select "Recording", then press [ENTER]. "Recording" menu will appear.

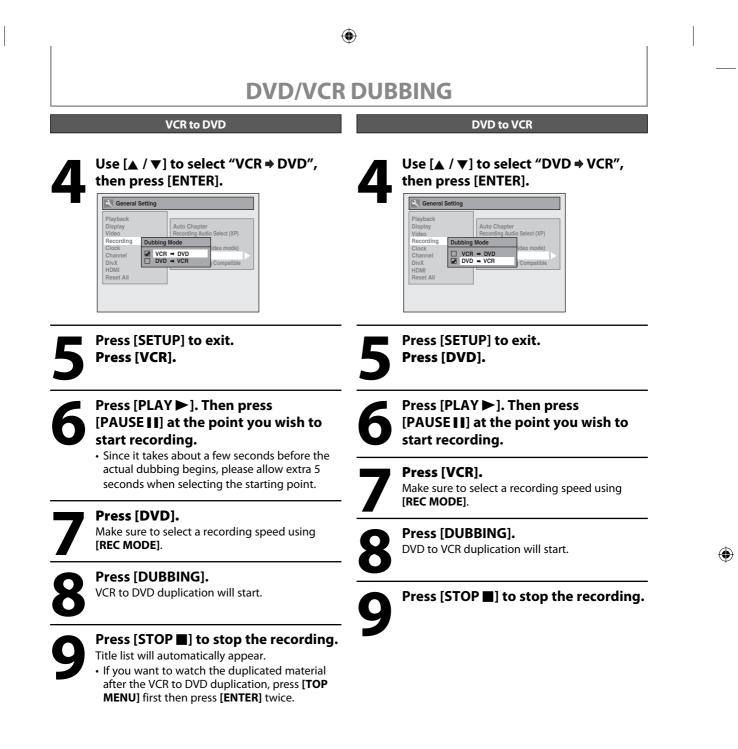
3

Use [▲ / ▼] to select "Dubbing Mode", then press [ENTER]. Selection menu will appear.



Instructions continue on the next page.





Note

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- You cannot change the output mode during VCR to DVD or DVD to VCR duplication.
- For CD to VCR duplication:
- This function is available on Audio CD, not MP3, WMA nor DivX files.

For VCR to DVD duplication:

- After starting VCR to DVD duplication, the picture may be distorted because of the auto tracking function. This is not a malfunction. Be advised to playback the cassette tape until the picture is stabilized, then set the starting point where you wish to start recording, and start VCR to DVD duplication.
- The playback sound mode is followed by the setting of VCR playback sound mode on page 112. Set the playback sound mode to which you wish to record to the DVD.
- This unit will automatically stop the duplication if playback with no image is for more than 3 minutes during VCR to DVD duplication.
- Dubbing indicator will appear on the front panel display during dubbing.

INFORMATION ON PLAYBACK

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Structure of Disc Contents

The contents of DVD are generally divided into titles, and the titles are subdivided into chapters. Audio CDs are divided into tracks.

Data disc contains MP3/WMA/JPEG/DivX® are divided into folders, and the folders are subdivided into files.



NΠ	\sim	17.	$^{h}\sim$	177	ightleftarrow	177	♪~	111.	
		_				~	-		
		— I	мрз/v	VMA/	'JPEG/	/DivX			

← fold	er 1 —		- folder 2 –	
file 1	file 2	file 3	file 4	file 5
\sim III \sim	1∎1 ~	\sim L11 L		
690	S.,	A27		<u></u>

nacis, ana	the folders are subdivided into files.	
Title:	Divided contents of a DVD video. Roughly corresponds to a story title in short stories.	
Chapter:	Divided contents of a title. This corresponds to a chapter in a story.	
Track:	Divided contents of an audio CD.	L
Folder:	Divided contents of a MP3/WMA/JPEG/DivX® data disc. Consists of number of files.	
Fach title	chapter or track folder or file is assigned a	

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

Some discs may not have these numbers.

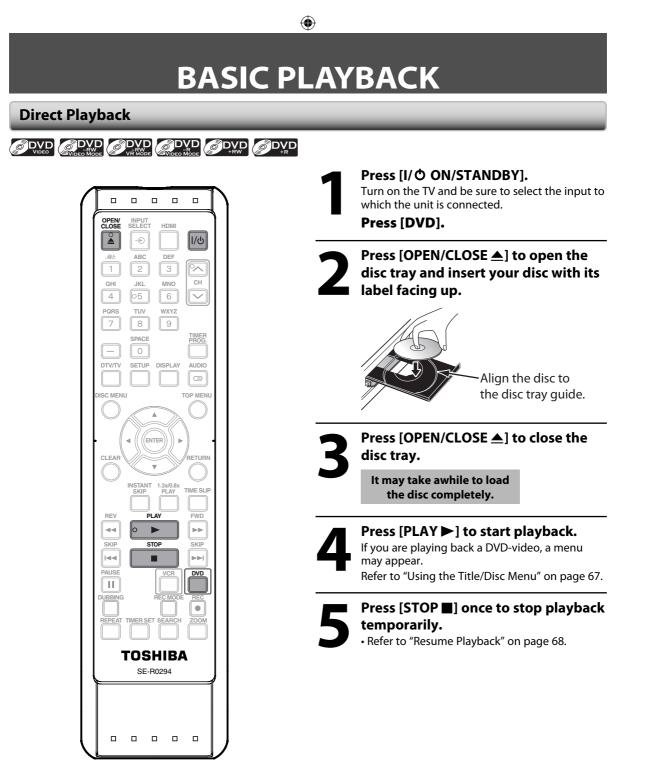


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Introduction

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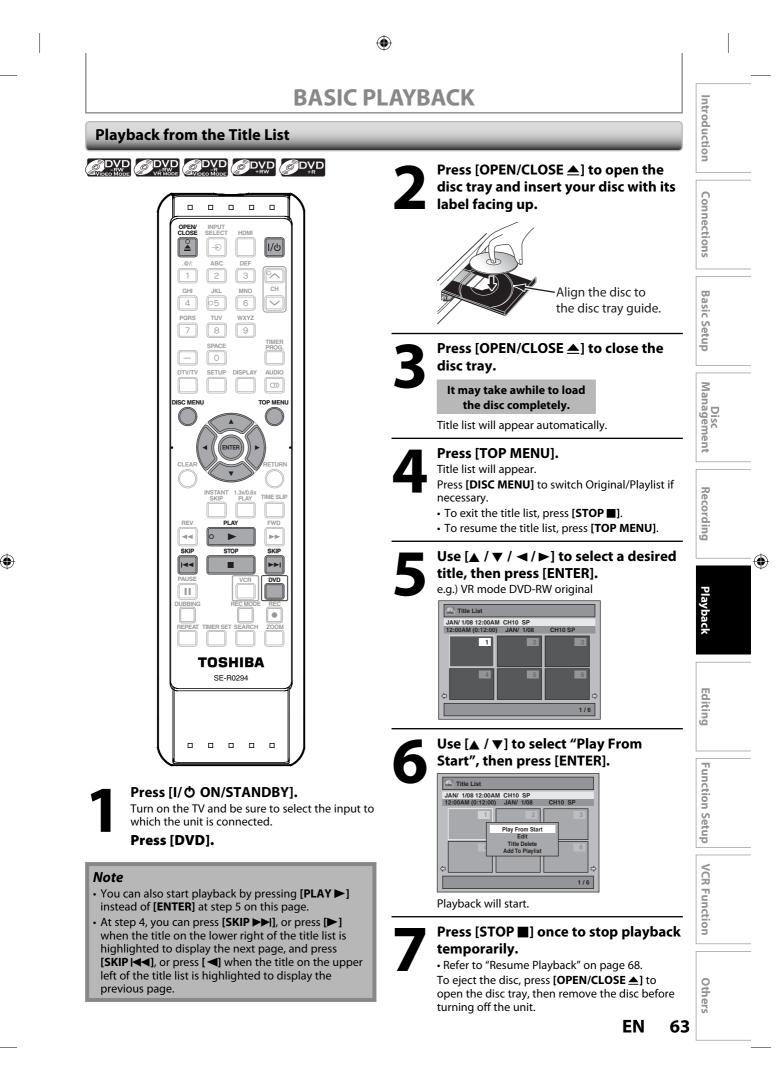
Note

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• Some discs may start playback automatically.

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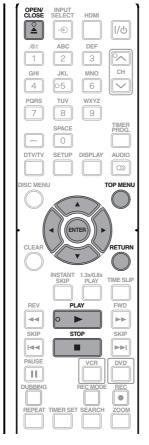


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BASIC PLAYBACK

Playing Back an Audio CD and a CD-RW/-R with MP3/WMA/JPEG Files

Ø CD ØМРЗ ØWMA ØJPEG



Follow steps 1 to 2 in "Direct Playback" on page 62.

Press [OPEN/CLOSE ▲] to close the disc tray.

It may take awhile to load the disc completely.

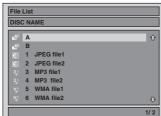
File list will appear automatically.

- To exit the file list, press [STOP ■].
- To resume the file list, press [TOP MENU].



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Use [▲ / ▼] to select a desired folder or track/file, then press [ENTER].



When selecting track/file:

Playback will start.

When selecting folder:

The files in the folder will appear.

Use $[\land / \lor]$ to select the file or folder you want to play back, then press **[ENTER]**.

- Press [PLAY ▶], [ENTER] or [▶] to move to any lower hierarchies.
- Press [] or [RETURN] to move back to the previous hierarchy.

Hints for audio CD tracks and MP3 / WMA / JPEG files:

- Folders are shown by \square .
- Audio CD tracks are shown by S.
- MP3 files are shown by 3♪.
- WMA files are shown by W♪.
- JPEG files are shown by 🔯 .
- The system can recognize up to 255 folders and, up to 99 tracks/999 files.
- Letters of a file/folder name overflowing the given space will be displayed as "...".
- If there are no files in the folder, "No Files" will be displayed.

It is recommended that files to be played back in this unit are recorded under the following specifications:

<MP3 / WMA>

- Sampling frequency
- Constant bit rate
- : 44.1 kHz or 48 kHz. : 112 kbps - 320 kbps (MP3), 48 kbps - 192 kbps (WMA).

<JPEG>

- Upper limit
- Lower limit
- : 6,300 x 5,100 dots. : 32 x 32 dots.
- File size of image maximum: 12 MB.

Note

- The audio source of MP3 files cannot be recorded as digital sound by an MD or DAT deck.
- Files whose extension is other than ".mp3(MP3)" ".wma(WMA)" or ".jpg / .jpeg(JPEG)" will not be listed.
- Some unplayable folders or files may be listed due to the recording status.
- High-resolution JPEG files take longer to be displayed.
- Progressive JPEG files (JPEG files saved in progressive format) cannot be played back on this unit.
- The JPEG pictures can also rotate by using [◀ / ▶].

This DVD Video Recorder requires discs/recordings to meet certain technical standards in order to achieve optimal playback quality. There are many different types of recordable disc formats (including CD-R containing MP3/WMA files). Not all recordable discs will operate or produce optimal playback quality. The technical criteria set forth in this owner's manual are meant only as a guide. Use of CD-RW for MP3 files is not recommended.

You must obtain any required permission from copyright owners to download or use copyrighted content. Toshiba cannot and does not grant such permission.

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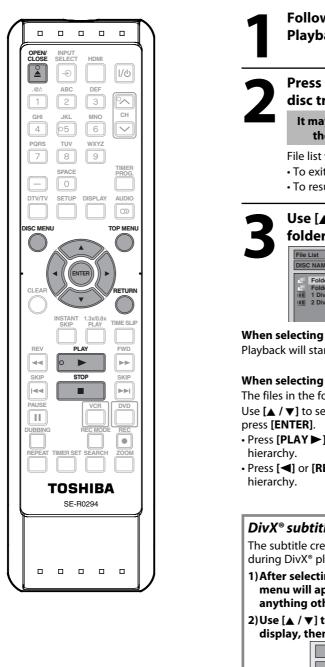
BASIC PLAYBACK

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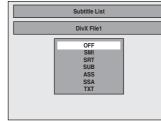
Playing Back a DivX®

ODivX[®]

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Introduction Follow steps 1 to 2 in "Direct Connections Playback" on page 62. Press [OPEN/CLOSE] to close the disc tray. It may take awhile to load **Basic Setup** the disc completely. File list will appear automatically. • To exit the file list, press [STOP ■]. • To resume the file list, press [TOP MENU]. Disc Management Use $[\blacktriangle / \triangledown]$ to select the desired folder or file, then press [ENTER]. DISC NAM Folder1 Folder2 1 DivX File1 2 DivX File2 Recording When selecting file: Playback will start. When selecting folder: The files in the folder will appear. Use $[\land / \lor]$ to select the file you want to play back, then • Press [PLAY ▶], [ENTER] or [▶] to move to any lower • Press [] or [RETURN] to move back to the previous Editing DivX[®] subtitle The subtitle created by the user can be displayed during DivX® playback. 1) After selecting the DivX[®] file, the "Subtitle List" menu will appear when "DivX Subtitle" is set to **Function Setup** anything other than "OFF". (Refer to page 106.) 2) Use $[\blacktriangle / \nabla]$ to select the extension you want to display, then press [ENTER]. Subtitle List DivX File1



DivX® with the subtitle starts playback. The subtitle cannot be displayed when the setting is "OFF".If there is more than one extension, the extension selection appears in the subtitle list.

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ΕN

VCR Function

Others

BASIC PLAYBACK

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It is recommended that files to be played back in this unit are recorded under the following specifications: Official DivX[®] Certified product

Playable codec of AVI files	: DivX®3.x, DivX®4.x,
	DivX®5.x, DivX®6.0
 Maximum size of image 	: 720 x 480 @30 fps
	720 x 576 @25 fps
Sampling frequency of audio	o: 8 kHz - 48 kHz
• Audio type	: MPEG1 audio layer 3(MP3),
	MPEG1 audio layer 2,
	Dolby Digital

Hint for the purchased or rental official DivX® **Certified product**

- When you purchased or rental a DivX[®] file through the official site of DivX® video which is called DivX® Video-On-Demand (VOD) services, a registration code is required every time you get the new file from the DivX® VOD services. Refer to "DivX® VOD" on page 106.
- Some DivX[®] VOD files are restricted with the limited playable times (you cannot play them back beyond the limit). If your DivX® VOD file has such limit, the playback confirmation screen will appear.



Use [< / >] to select "Yes" if you want to play back the file, or to select "No" if you do not wish to play it back. Then, press [ENTER] to

confirm the selection. You cannot play back the DivX® VOD files, of which rental period has been expired. In such case, press [TOP MENU] and select other files that can be played back.



Note for DivX[®]

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- DivX[®] is a codec (compression/decompression) that can compress images to a very small amount of data. The software can compress video data from almost any devices to the size that can be sent on the Internet without compromising visual quality of the images.
- A file with an extension of ".avi" and ".divx" is called an DivX[®] file. All files with the ".avi" extension are recognized as MPEG4.
- Files whose extension other than ".avi" and ".divx" will not be listed on the DivX[®] menu. However, unplayable folders and files may be displayed, depending on the recording conditions.
- Even if the file has an extension of either ".avi" and ".divx", this unit cannot play it back if it is recorded in the format other than DivX®.
- A symbol of **IIII** is shown on the top of the file name.
- A maximum of 255 folders or 999 files may be recognized in a disc.
- Up to 8 hierarchies can be recognized in a folder. Files in the 9th or deeper hierarchies cannot be played back.
- If there are more than 9 files, a down arrow "↓" appears, indicating that the user can view another part on the previous page. The current page number and the number of total pages are shown on the bottom of the screen.
- · Letters of a file/folder name overflowing the given space will be displayed as "...".
- You can play back the disc recorded in multi-session.
- It may take awhile for audio and images to be output after you inserted a disc and pressed [PLAY].
- When playing back the files recorded in high bit rates, the images can be interrupted in some occasions.
- Although DivX[®] logo has been obtained for this unit, it may not be able to play back some data, depending on the characteristics, bit rates, or audio format settings, etc.
- A DivX[®] file whose file size exceeds 2 GB cannot be played back.
- If a large-sized DivX[®] file is selected, it may take awhile to start the playback (over 20 seconds sometimes).
- If you try to playback the DivX[®] file that has the screen resolution which this unit does not support, the playback will be stopped and error message will appear.

- If DivX[®] files written on a CD-RW/-R cannot be played back, rewrite them on a DVD-RW/-R or DVD+RW/+R and try to play back.
- For more information for DivX[®], please visit http://www.divx.com.
- If you insert a CD-RW/-R with DivX[®] files that are mixed with MP3/WMA/JPEG files, the playback media selection screen will be displayed. Please select "Video" and proceed to next step.



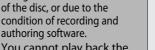
This player is not authorized to play this video.

Please push 'TOP MENU'



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- Press [DISC MENU] to call up the playback media selection screen in stop mode. If you select "Audio & Picture" instead of "Video" on
- the playback media selection screen, this unit can play back MP3/WMA/JPEG files.
- Some DivX[®] files cannot be played back on this unit due to the configuration and characteristics



You cannot play back the DivX[®] VOD files obtained with different registration codes on this unit. Press

[TOP MENU] and select other files that can be played back.

Note for DivX[®] subtitle

- To utilize this function, the following conditions must meet.
- "DivX Subtitle" must be activated in "DivX" menu. (Refer to "DivX Subtitle" on page 106.)
- Playback file and the subtitle file must have the same name.
- Playback file and the subtitle file must locate in the same folder.
- Only the subtitle files with the following extensions are supported; .smi (.SMI), .srt (.SRT), .sub (.SUB) .ass (.ASS), .ssa (.SSA), .txt (.TXT).
- (.sub (.SUB) and .txt (.TXT) files may not be recognized.) - The subtitles that exceeds the playback time of the DivX[®] file will not be displayed.

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BASIC PLAYBACK

Using the Title/Disc Menu

DVD may contain a title list, which describes the contents of the disc, or a disc menu, which guides you through the available functions in the disc.

Press [DVD] first.

- 1)Press [TOP MENU] or [DISC MENU] to call up the title list or disc menu.
- 2)Use [▲ / ▼ / ◀ / ▶] to make a selection, and then press [ENTER] to enable your selection.

3)Press [STOP ■] to exit the disc menu.

Note

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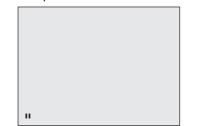
- You can select a numbered menu with [the Number buttons] also.
- Menus vary among discs. Refer to the information accompanying the disc for details.
- [DISC MENU] or [TOP MENU] will not always be effective for all DVDs.

Pause

Press [DVD] first.

1) During playback, press [PAUSE]].

Playback will be paused and sound will be muted.



2)Press [PLAY ►] to return to the normal playback.

Note

• For DVD, set "Still Mode" to "Field" in "Playback" menu if pictures in the pause mode are blurred. (Refer to page 101.) Disc Management

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Resume Playback

You can play back from where you stopped playing back the disc last.

Press [DVD] first.

1) During playback, press [STOP ■].

The resume message will appear.

Resume ON	

2)Press [PLAY ►].

In a few seconds, playback will resume from the point at which it stopped last. You can resume playback at the same point even if you turn off the unit.

To cancel the resume playback and start playing back the disc from the beginning, press [STOP ■] again while the playback is stopped.

Note

6 DVD

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• For MP3/WMA/JPEG files, playback will resume from the beginning of the file at which playback was stopped.





Press [DVD] first.

1) During playback, press [FWD ►►] or [REV ◄◄]. Every time you press [FWD ►►] or [REV ◄◄], approximate speed will be changed as follows. Fast forward or fast reverse playback across titles (for DVD), or files (for MP3 / WMA / DivX[®] files) is not possible.

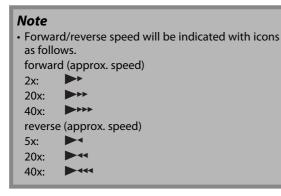


For audio CD, MP3/WMA files, approximate speed is fixed at 8x with sound.

Picture quality of DivX[®] files in fast reverse is lower than that in fast forward.

For some DivX® files, fast forward/fast reverse may not function.

2)Press [PLAY ▶] to return to the normal playback.





Skipping TV Commercials During Playback



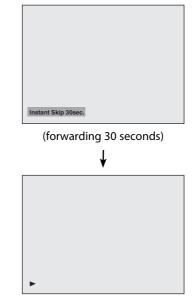
You can skip TV commercials to enjoy the recorded programs without interrupting.

Press [DVD] first.

During playback, press [INSTANT SKIP].

Normal playback will start at 30 seconds ahead from where you press [INSTANT SKIP]. Every time you press [INSTANT SKIP], the searching point will be extended by 30 seconds ahead. You can press [INSTANT SKIP] up to 6 times (180 seconds).

e.g.) Press [INSTANT SKIP] once.



Playback will return to the normal playback.

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Rapid Playback

DVD

Rapid playback function is available only during playback.

This function is available only on discs recorded in the Dolby Digital format, and plays back in a slightly faster/ slower speed while keeping the sound output.

Press [DVD] first.

1) During playback, press [1.3X / 0.8X PLAY].

- ► x0.8: Press [1.3X / 0.8X PLAY] once during playback. Plays back approximately at 0.8 times of normal playback.
- ►x1.3: Press [1.3X / 0.8X PLAY] twice during playback. Plays back approximately at 1.3 times of normal playback.
- Press [1.3X / 0.8X PLAY] thrice to play back in ►: normal speed. No effects.

2)Press [PLAY ▶] to return to the normal playback.

Note

- Audio (language) setting cannot be changed while using this mode.
- This feature may not work at some point in a disc.
- Audio is LPCM (2 channel) during rapid playback.

Step by Step Playback

ØDivX

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Press [DVD] first.

1) During playback, press [PAUSE]].

Playback will be paused and sound will be muted.

2) Press [SKIP ►►] repeatedly.

Playback will advance one frame at a time when you press [SKIP >>] with the sound muted.

To play back step by step backward:

Press [SKIP I] repeatedly.

Every time you press the button, the playback will go backward by one frame.

• Press and hold [SKIP I◄◀] / [SKIP ►►I] to reverse/ advance continuously.

3)Press [PLAY ▶] to return to the normal playback.

Note

 Only step by step forward playback is available for playing back DivX® files.

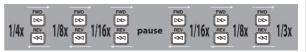
Slow Forward / Slow Reverse Playback

ODivX

Press [DVD] first.

1) During playback, press [PAUSE]]. Then press [FWD ►►] or [REV ◄◀].

Every time you press [FWD ►►] or [REV ◄◄], approximate speed will be changed as follows. (The sound will remain muted.)



2)Press [PLAY ▶] to return to the normal playback.

Note

• Forward/reverse speed will be indicated with icons as follows.

forward (approx. speed)

1/16x: 1/8x:

1/3x:

- reverse (approx. speed) 1/16x:
- 1/8x:
- 1/4x:
- For some DivX[®] files, slow forward/slow reverse may not function.
- Only slow forward is available when playing back DivX[®] files.

Function Setup VCR Function Others

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Press [DVD] first.

- 1) During playback, press [DISPLAY] or [ZOOM]. • If you press [ZOOM], skip to step3.
- 2) Use [◄/▶] to select (), then press [ENTER] within 1 second, or wait for 1 second to display the selection menu.
 e.q.) DVD-video

e.g.) DVD-video

Т	1/	5 <u>C</u>	1/ 5	5 🕒	0:01:00	/ 1:23:45
	()) [NR 🕀	5	DVD Video

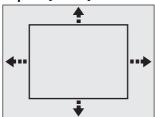
3)Use [▲ / ▼] to select a desired zoom factor to zoom, then press [ENTER].

T 1/ 5 C	1/ 5 🕒 0:01	1:00 / 1:23:45 🕥
		DVD Video
	() × 2.0	

Zoom menu will appear. There are four options (x1.0, x1.2, x1.5 and x2.0), these are displayed excluding the current zoom rate.

Zoom area will be displayed.

4) Use [▲ / ▼ / ◀ / ▶] to select a desired zoom position, then press [ENTER].



Zoom playback will start.

Note

- When selecting a smaller factor than the current one, the zoom area will not be displayed.
- To exit the zoom menu, press [DISPLAY] repeatedly.
- To cancel the zoom function, select "x1.0" using [▲ / ▼], then press [ENTER] at step 3.
- You cannot slide the zoomed picture on some JPEG files.

Marker Setting



This feature allows you to assign a specific point on a disc to be called back later.

Press [DVD] first.

For audio CD, skip to step 2.

1) During playback, press [DISPLAY].

 Use [◄/▶] to select minimary in the press [ENTER] within 1 second, or wait for 1 second to display the marker list.

e.g.) DVD-video



3)Use [▲ / ▼] to select a desired marker number. When it reaches the desired point, press [ENTER].



The title (track) number and the time will be displayed.

4) To return to the marker:

Use [▲ / ▼] to select the desired marker number, then press [ENTER].

Note

- To clear a marker, select the marker number to be cleared, then press [CLEAR].
- All markers will be erased when you operate these operations listed below.
- Opening the disc tray
- Turning off the power
- Recording on a recordable disc
- You can mark up to 6 points.

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Chasing Playback during Recording

You can play back the already recorded part of the currently recording program without waiting for the recording to the end. **This function works from 1 minute after the start of the recording.**

1)During recording, press [PLAY ►].

Playback will start from the beginning of the program that you are currently recording.

Screen for the current playback:

1/5 1/5 0:01:00 / 1:23:45 ●) ○ ■ ■ ■ ■ ● ■ ■ ■ ■ ● ■ ■ ■ ■ ● ■ ■ ■ ■ ● ■ ■ ■ ■ ● ■ ■ ■ ■ ● ■ ■ ■ ■ ● ■ ■ ■ ■ ● ■ ■ ■ ■

If you play back the fast forward playback and the playback reaches the scene recorded 1 minute before, the forwarding playback will automatically return to the normal playback.

2)Press [STOP ■] once to stop playback.

The resume message will appear. Screen for the current recording:

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To stop recording, press [**STOP** ■] again. To cancel the resume, press [**STOP** ■] again.

E9MG0UD_D-VR660KU_EN.indd 71

Using [TIME SLIP] ...

With **[TIME SLIP]**, even if you leave your couch while you are watching TV through this unit, you can come back and watch rest of the program from right where you left at any convenient time with just one button. Please make sure to put VR mode DVD-RW disc, and set the recording mode to LP, EP or SLP.

1)While viewing a TV broadcast via this unit, press [TIME SLIP].

This unit start to record the TV broadcast.

2)Press [TIME SLIP] again.

Playback will start from the point at which you press **[TIME SLIP]** first while recording continues.

• While viewing the recorded content, you can pause and resume the playback by pressing [TIME SLIP].

3)Press [STOP ■] once to stop playback.

To stop recording, press [STOP ■] again.

To cancel the resume, press [STOP ■] again.

Note

- Playback image may freeze momentarily using this function.
- However, this does not affect the recording.
- The 2x fast forward playback is not available.
- [REC ullet] is not available during this function.
- You must cancel this function first by pressing [STOP ■] once. Then you can use [REC ●] to use OTR (one-touch timer recording) function or change recording time for the OTR.
- "Wait for a moment." will be displayed on the screen if you press [PLAY ►] before 1 minute of recording.
- This function is available only when you are recording on a DVD-RW in VR mode, with the recording mode LP, EP or SLP.



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Others

Simultaneous Playback and Recording

You can also play back a recorded title during current recording or the timer recording on the same disc.

1) During recording, press [DISPLAY].

Screen for the current recording:

T	3 <u>C</u>	1 🕒	1:23:45	
(), €)		NR 🕄 불	-RW	VR ORG
			(CH 10

2)Select ② icon using [◄/►], then press [ENTER].

The title number next to T will be highlighted.

Title:

Enter a desired title number to search using $[\blacktriangle / \nabla]$ or [the Number buttons], then press [ENTER].

Selected title playback will start.

Chapter:

To move to **○** for chapter, press **▶**]. Enter a desired chapter number to search using [▲ / ▼] or [the Number buttons], then press [ENTER].

Selected chapter playback will start.

If you play back the currently recording program and the playback reaches the scene recorded 1 minute before, the forwarding playback will automatically return to the normal playback.

3)Press [STOP ■] once to stop playback.

The resume message will appear. Screen for the current recording:



To stop recording, press [**STOP** ■] again. To cancel the resume, press [**STOP** ■] again.

Note

- Playback image may freeze momentarily using this function.
- However, this does not affect the recording.
- The 2x fast forward playback is not available.
- This function is available only when you are recording on a DVD-RW in VR mode, with the recording mode LP, EP or SLP.
- Only the titles (chapters) in the original can be selected.

You cannot select titles from the title list.

• When you stop the playback after the timer recording is completed, the unit will be switched to the timer standby mode if another program has been set (refer to "Hints for Timer Recording" on page 53).

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SEARCH

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Title/Chapter Search

Using [SKIP I ◄] / [SKIP ► ►] Press [DVD] first.

- 1) During playback, press [SKIP ►►] to skip the current title or chapter and move to the next.
- The title or chapter will move forward by one at a time. • If there is no chapter in one title, the current title will be skipped.

To go back to the beginning of the current title or chapter, press [SKIP |

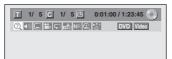
Press it twice in guick successions to go to the previous title or chapter. The title or chapter will move backward one title at a time.

Using [DISPLAY]

Press [DVD] first.

1) During playback, press [DISPLAY].

2)Use [◀/▶] to select ②, then press [ENTER]. e.g.) DVD-video



The number next to 🔳 will be highlighted.

3)Title:

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Use [▲ / ▼] or [the Number buttons] to enter a desired title number to search, then press [ENTER]. Title search will start.

Chapter:

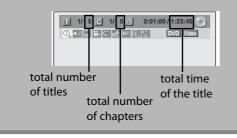
Press [▶] to move to the number next to C for chapter.

Use [▲ / ▼] or [the Number buttons] to enter a desired chapter number to search, then press [ENTER].

After the search, playback will start automatically.

Note

• In search mode display, total numbers of each search contents (title/chapter/time) are shown as a denominator.



Track Search

O CD OMP3 OWMA OJPEG ODivX

Using [SKIP I ◄] / [SKIP ► ►]

Press [DVD] first.

1)During playback, press [SKIP ►►I] to skip the current track/file and move to the next.

The track/file will move forward one at a time. To go back to the beginning of the current track/file, press [SKIP |

Press it twice in quick successions to go to the previous track/file. The track/file will move backward one at a time.

Using [DISPLAY]

Press [DVD] first.

• For audio CD, MP3 or WMA, skip to step 2. 1) During playback, press [DISPLAY].

2)Use [◀/▶] to select ②, then press [ENTER]. e.g.) audio CD





The number next to **T** will be highlighted.

3)Use [▲ / ▼] or [the Number buttons] to enter a desired track/file number to search, then press [ENTER].

After the search, playback will start automatically.

Note

 During CD playback, you can enter a track number directly using [the Number buttons] for track search without displaying the menu.



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The number next to 🔟 will be highlighted.

To move to the number next to 🕑 , press [>].

When time search is not available, 🕒 and time counter are not displayed.

3) Use [▲ / ▼ / ◀ / ▶] or [the Number buttons] to enter a desired time to search, then press [ENTER]. After the search, playback will start automatically.

Note

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• Time search is available only in the same track, file or title.

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REPEAT/RANDOM/PROGRAM PLAYBACK/SLIDE SHOW

Repeat Playback

Available repeat function may vary depending the discs. **Press [DVD] first.**

- For audio CD, MP3, or WMA, skip to step 2, or press **[REPEAT]** and skip to step 3.
- 1)During playback, press [DISPLAY] or [REPEAT]. • If you press [REPEAT], skip to step3.

T 1/ 5 C 1/ 5 O 0:01:00 /	1:23:45
	DVD Video

3)Use [▲ / ▼] to select a desired option to repeat, then press [ENTER].

e.g.) DVD-video



e.g.) audio CD

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e.g.) MP3/WMA/JPEG files



e.g.) DivX® files

T 1/ 5	© 0:00:15 /	0:05:00	
		DivX	
	OFF Track All Group A - B		

The selected repeat playback will start.

T 1/ 5 C 1/ 5 C 0:0	1:00 / 1:23:45 💽
	DVD Video
	Repeat
	Title

Title:

The current title will be played back repeatedly. **Chapter:**

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The current chapter will be played back repeatedly. **All:**

The current disc will be played back repeatedly. A-B:

- Desired section can be played back repeatedly.
- 1) Use $[\blacktriangle / \lor]$ to select "A-B", then press [ENTER].
- 2) Press [ENTER] at the desired starting point A.3) Press [ENTER] at the desired ending point B.
- Track:

The current track or file will be played back repeatedly. **Group:**

The current folder will be played back repeatedly.

Note

- Point B for the repeat A-B playback should be set within the same title or track of point A.
- To cancel the repeat playback, select "OFF" at step 3. The repeat setting will also be canceled when you stop playback.
- You cannot select "Group" during the random playback of MP3/WMA/JPEG files.
- For some DivX[®] files, A-B repeat playback may not function.
- Chapter/Track repeat will be canceled whenever a Chapter/Track is skipped forward or backward.
- During the A-B repeat, if you reaches the point A with any reverse playback, the reverse playback will be canceled and the A-B repeat playback resumes from point A.

Random Playback



You can play back a disc randomly instead of playing back in the original order.

Press [DVD] first.

1)Press [SETUP] in stop mode.

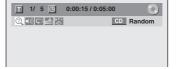
2)Use [▲ / ▼] to select "CD Playback Mode", then press [ENTER].

"CD Playback Mode" menu will appear.

3)Use [▲ / ▼] to select "Random Play", then press [ENTER].

Random playback will start. e.g.) audio CD





Note

• To cancel random playback, press [STOP ■] twice during random playback. "OFF" appears on the display menu.

Others

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REPEAT/RANDOM/PROGRAM PLAYBACK/SLIDE SHOW

Program Playback

© CD

You can program the disc to play back in your desired order.

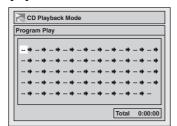
Press [DVD] first.

1)Press [SETUP] in stop mode.

2) Use [▲ / ▼] to select "CD Playback Mode", then press [ENTER].

"CD Playback Mode" menu will appear.

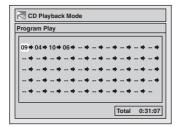
- 3) Use [▲ / ▼] to select "Program Play", then press [ENTER].
- 4) Use [▲ / ▼] to select a desired track, then press [ENTER] or [▶].



Repeat this step until you program all the desired tracks.

5)Press [PLAY ►].

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Program playback will start.

Note

- To erase tracks you selected, press [CLEAR] at step 4.
- You can make program settings up to 50 tracks.
- To cancel program playback, press [STOP] twice during program playback. "OFF" appears on the TV screen.
- You may also select a desired track using [the Number buttons] at step 4.

Slide Show

JPEG

You can select the display time between 5 seconds and 10 seconds.

Press [DVD] first.

1)Follow steps 1 and 2 in "Program Playback" on the left.

2)Use [▲ / ▼] to select "Slide Show", then press [ENTER].

3)Use [▲ / ▼] to select the display time, then press [ENTER].

4) Press [SETUP] to exit.

Note

• Large-size JPEG files take a few moments to be displayed.



SELECTING THE FORMAT OF AUDIO AND VIDEO

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You can select the format of audio and video as you prefer depending on the contents of the disc you are playing back.

Switching Subtitles

DVD-video may have subtitles in one or more languages. Available subtitle languages can be found on the disc case. You can switch subtitle languages during playback.

Press [DVD] first.

1) During playback, press [DISPLAY].

2)Use [◀/▶] to select 🔳 , then press [ENTER] within 1 second, or wait for 1 second to display the selection menu.

e.g.) DVD-video



3)Use [▲ / ▼] to select a desired subtitle language, then press [ENTER].



Subtitle will be displayed in the selected language. When "OFF" is selected, subtitle will disappear.

Note

 $(\mathbf{ })$

- · Some discs will only allow you to change the subtitle from the disc menu. Press [DISC MENU] or [TOP MENU] to display the disc menu.
- If a 4-digit language code appears in the subtitle menu, refer to the "LANGUAGE CODE" on page 117.
- For disc with DivX[®] files, the TV screen only displays the number of subtitle languages and "- - - - " next to the numbers.

Switching Audio Soundtrack

When playing back a DVD-video recorded with 2 or more soundtracks (these are often in different languages), you can switch them during playback.

When playing back audio CD, you can switch "L/R"(stereo), "L"(left) or "R"(right).

Press [DVD] first.

- 1) During playback, press [DISPLAY] or [AUDIO COD]. • If you press [AUDIO CD], skip to step3.
- 2)Use [◀/▶] to select 🚺 , then press [ENTER] within 1 second, or wait for 1 second to display the selection menu.
- 3)Use [▲ / ▼] to select a desired audio soundtrack or audio channel, then press [ENTER].

For DVD-video, VR mode DVD-RW, or DivX® files · Audio soundtrack will switch.

e.g.) DVD-video



• If the title contains both main and sub audio, you can further select "L" (main), "R" (sub), "L/R" (mixed of main and sub).

For audio CD

Audio channel will switch.

e.g.) audio CD



Note

 Some discs will only allow you to change the soundtrack from the disc menu. Press [DISC MENU] or [TOP MENU] to display the disc menu.



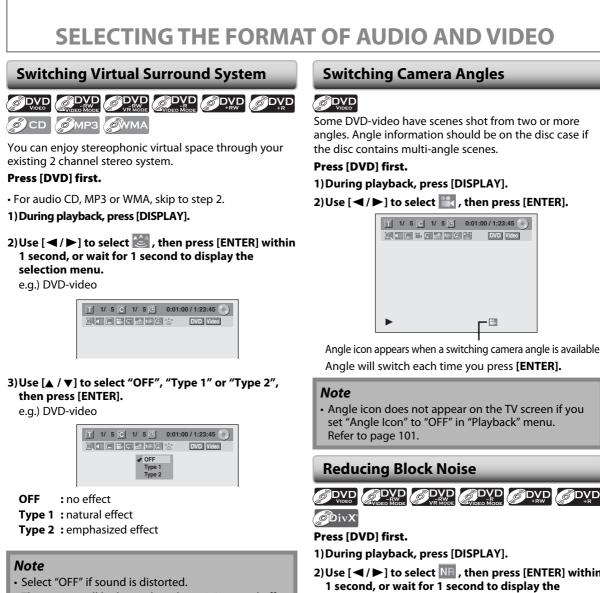
Introduction

Connections

Basic Setup

Disc

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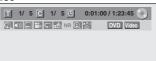
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The setting will be kept when the unit is turned off.

Angle icon appears when a switching camera angle is available.

2)Use [◀/▶] to select NR, then press [ENTER] within selection menu.

e.g.) DVD-video



3) Use [▲ / ▼] to, select "Noise Reduction", then press [ENTER].



4) Use [▲ / ▼] to select a desired option, then press [ENTER].

Τ	1/	5 C	1/	5 🕒	0:01	:00 / 1:23:45 💿
)) [.			NR Θ	1	DVD Video
	/ 0	FF				
- 1		pe 1				
	- Iy	pe 2				

Your setting will be activated.

This function reduces noise in the playback picture. If noises appear on the TV screen during playing back discs recorded in long time recording mode such as EP or SLP, select "Type 1" or "Type 2".

("Type 2" is more effective.)

When playing back discs with a few noises such as DVD-video, select "OFF".



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SELECTING THE FORMAT OF AUDIO AND VIDEO

Adjusting Black Level



You can adjust the black level to control the brightness of the picture in order to get a better picture.

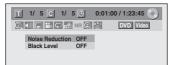
1) During playback, press [DISPLAY].

2)Use [◀/▶] to select NR. Press [ENTER] within 1 second, or wait for 1 second to display the selection menu.

e.g.) DVD-video

<u> </u>	5 <u>C</u> 1/	5 🕒 0:0	1:00 / 1:23:45 💽
		M NR 🕘 💆	DVD Video

3)Use [▲ / ▼] to select "Black Level", then press [ENTER].



4) Use [▲ / ▼] to select "OFF" or "ON" then press [ENTER].

Your setting will be activated.



OFF : Shows the original picture as recorded.

ON : Make the darker parts of the picture more visible.

Note

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- You can adjust black level setting only during playback.
- The setting will be kept even when the unit is turned off.
- The default setting is "ON".

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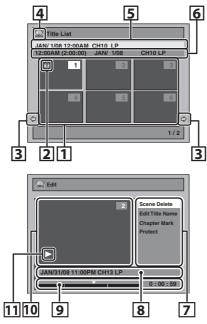
INFORMATION ON DISC EDITING

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Guide to a Title List

Title list allows you to check the titles recorded on the disc easily. You can choose a title to play back from this list and easily edit the titles as you prefer.

Press [TOP MENU].



- 1. Title list: List of the titles recorded on the disc, and their information.
 - For DVD+RW/+R, empty title always appears at the last of the title list.
 - · For the titles being blocked by the v-chip system (except the downloaded ratings), "BLOCK" will be displayed and you cannot watch the contents.
- 2. The protect icon: Appears when the title has been protected. (Original titles only)
- **3.** Arrow: Indicating there is a previous / next page.
- 4. Title list icon: Indicates a type of the displayed title
- list. GRG : VR (Original)

+VR mode

: VR (Plavlist) 5. Title name

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: Video mode

- 6. Title information: Displays various information on the selected title.
- 7. Submenu: Submenus for the selected menu are displayed here.
- 8. Title name (editable): If you do not name the title, the recorded date, time, channel and the recording mode are displayed here.
- 9. Progress bar: Indicating the progress of the playback. The vertical lines in the bar indicates chapter marks, and "▼" sliding on the bar indicates current point of playback displayed in the preview window.
- 10. Preview window: Preview of the selected title is displayed here.
- 11. Playback status: Indicating the current playback status of the selected title.

Press [RETURN] to exit the title list.

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Editing Discs

Edit the recorded disc

You will find editing discs is easy. This unit offers convenient edit functions which are possible only with DVD-RW/-R and DVD+RW/+R.

You can edit the following from a title list.

- Assigning a name to a title
- Dividing a title
- Combining titles
- Adding titles to a playlist
- Erasing all playlist
- Setting or releasing the title protection
- Adding or deleting chapter marks
- Deleting titles or parts of titles

(Possible editing functions depend on the recording format and editing method.)

Original and playlist (VR mode)

For VR mode DVD-RW, you can edit the recordings in playlist without changing the original recordings. Playlist does not take up much disc space. After you make a recording to VR mode DVD-RW, a playlist will be created automatically.

What "Original" or "Playlist" is for?

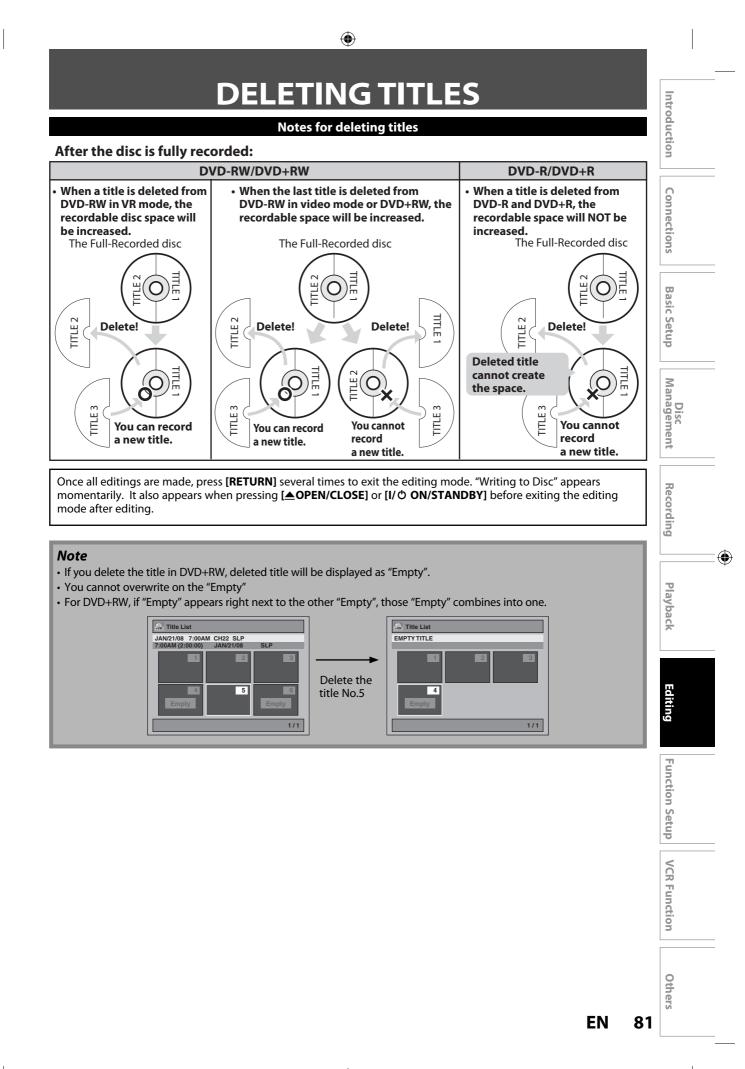
Throughout this manual, you will find original and playlist which refer to the actual content and the edited version.

- Original content refers to what's actually recorded on the VR mode DVD-RW.
- Playlist content refers to the edited version of the VR mode DVD-RW; how the original content is to be played back.

Finalizing a disc

- This will allow a disc that is recorded on this unit to be played back on other DVD player — without finalization it will not be playable on other DVD player.
- After finalizing a DVD-RW/-R or DVD+R, you cannot edit any information that is on that disc.
- If you have recorded in DVD+RW, then editing is still permitted 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.



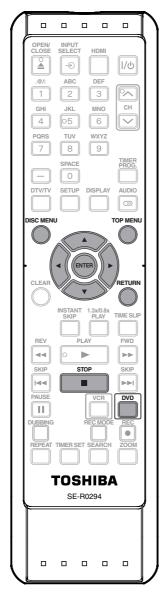
DELETING TITLES

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You can delete titles which you do not need anymore. Please be advised that the titles once deleted cannot be brought back to the disc.

Be sure to read "Notes for deleting titles" on page 81 before you delete the title.



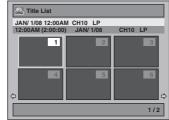
Press [DVD].

In stop mode, press [TOP MENU].

Title list, original or playlist will appear.
For VR mode DVD-RW, press [DISC MENU] to switch between "Original" and "Playlist".

Use [▲ / ▼/◀ / ▶] to select a desired title, then press [ENTER].

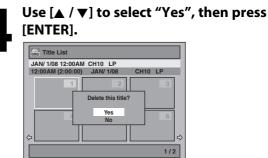
e.g.) VR mode DVD-RW original



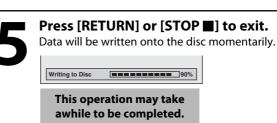


Use [▲ / ▼] to select "Title Delete", then press [ENTER].

JAN/ 1/08 12:00			
12:00AM (2:00:	00) JAN/ 1/08	CH10	LP
1	2		3
	Play From Start		
	Edit		
4	Title Delete Add To Playlist	-15	6
4			
令			



After that, "Are you sure?" will appear, select "Yes" and then press [ENTER]. Title will be deleted.



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CREATING/DELETING PLAYLIST

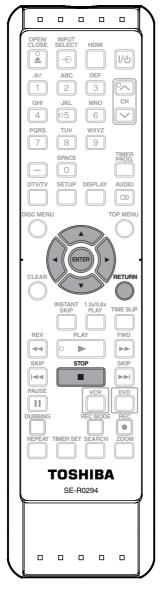
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Adding Titles to a Playlist



For VR mode DVD-RW, you can create the playlist as you wish.

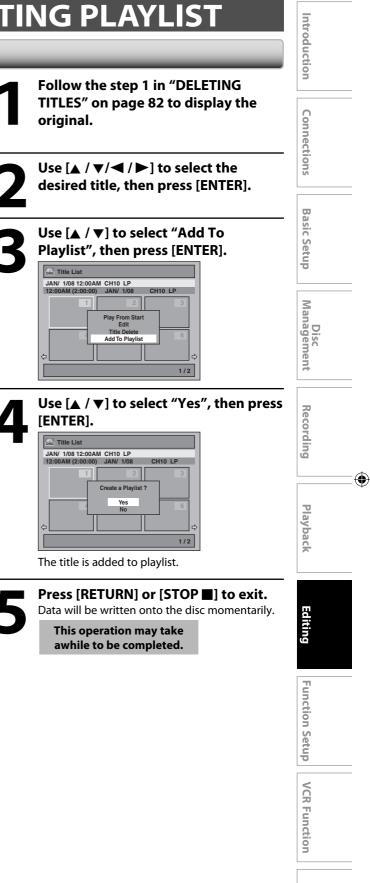
You can add up to 99 titles to a playlist (as long as the total number of the playlist does not exceed 999 chapters).



Note

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- To delete a title from the playlist, refer to "DELETING TITLES" on page 82.
- To delete all titles in the playlist, refer to "Erasing All Playlist" on page 84.
- When a playlist contains 99 titles or more, or 999 chapters or more, "Add to Playlist" cannot be selected.



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EN

Others

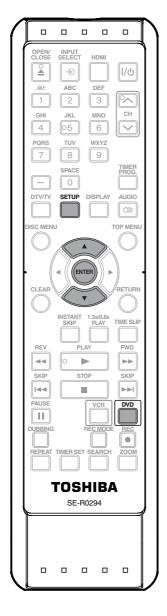
CREATING/DELETING PLAYLIST

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Erasing All Playlist



A playlist can be deleted if it is no longer needed.



Press [DVD]. Press [SETUP Main menu will a

Format Finalize Disc Pro

Disc Protect OFF ⇔ ON Delete All Playlists

Press [SETUP]. Main menu will appear.



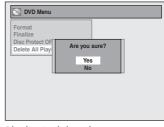
Use [▲ / ▼] to select "DVD Menu", then press [ENTER].



Use [▲ / ▼] to select "Delete All Playlists", then press [ENTER].

Use [▲ / ▼] to select "Yes", then press [ENTER].

"Are you sure?" will appear. Use [▲ / ▼] to select "Yes" and then press [ENTER].



Playlist is deleted. Data will be written onto the disc momentarily.

This operation may take awhile to be completed.

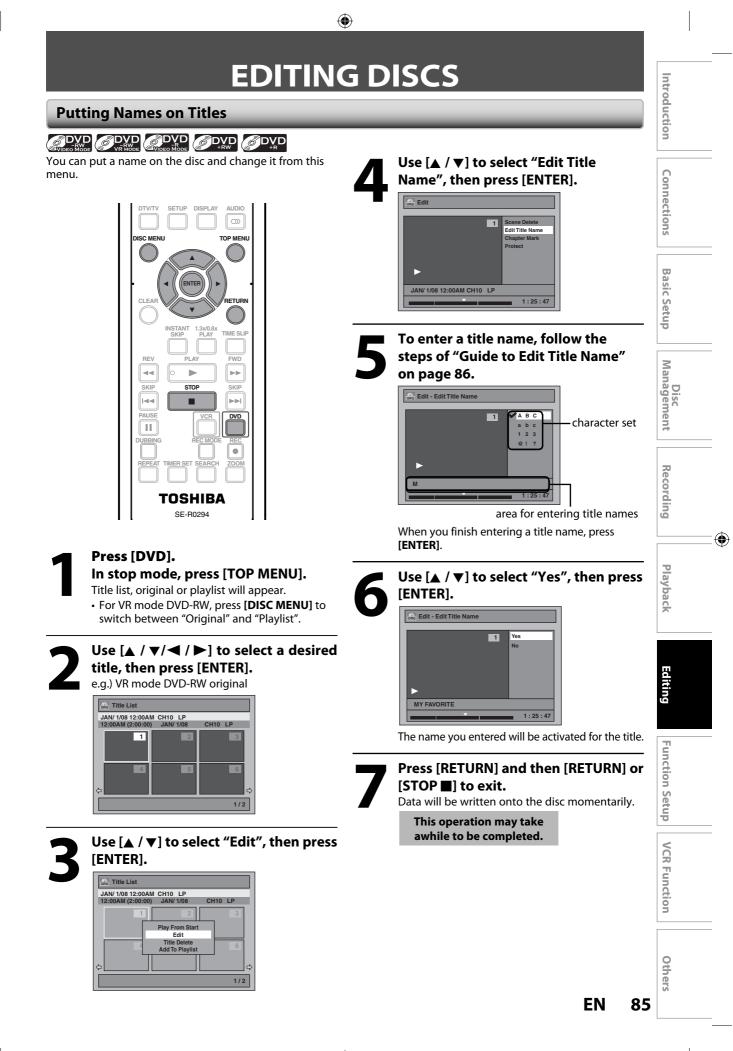
Note

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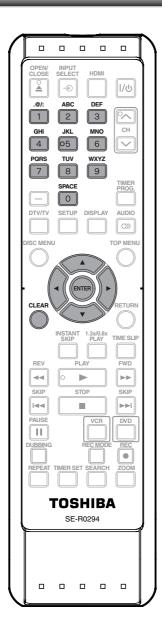
• Deleting a playlist will not increase the available recording time on the disc.

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Putting Names on Titles (cont'd)



Guide to Edit Title Name

- 1)Use [▲ / ▼] to select a desired character set, then press [ENTER].
- 2) Follow the list below, use [the Number buttons] repeatedly until the desired letter appears.

Select				
Press	ABC	abc	123	@!?
0	<space></space>	<space></space>	0	<space></space>
1	(*1)	(*1)	1	!"#\$%&'() *+,/:;<=> ?@[]^_{ }
2	ABC	abc	2	(*2)
3	DEF	def	3	(*2)
4	GHI	ghi	4	(*2)
5	JKL	jkl	5	(*2)
6	MNO	mno	6	(*2)
7	PQRS	pqrs	7	(*2)
8	TUV	tuv	8	(*2)
9	WXYZ	wxyz	9	(*2)

*1 Press 1, character set will be changed to the " @!? " mode automatically.

*2 Press **2** to **9**, character set will be changed to the previous input mode automatically.

• To delete letters, press [CLEAR] repeatedly. Press and hold [CLEAR] to delete all letters.

• Use [◀ / ▶] to move the cursor to the left and right.

• You can enter up to 30 letters.

Note

 Undefined letters in a title name are shown by "*". If you delete them, adjoining letters may change to "*" or other.

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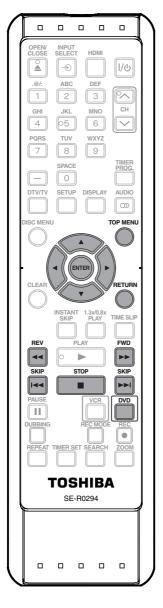
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Setting Chapter Marks

You can put chapter marks in each title. Once a chapter is marked, you can use it for the chapter search feature.



Introduction Follow steps 1 to 3 in "Putting Names on Titles" on page 85 to display "Edit" Connections menu. Use $[\blacktriangle / \nabla]$ to select "Chapter Mark", then press [ENTER]. Submenu will appear. **Basic Setup** Use [SKIP |◀◀ / ▶▶|], [REV $\triangleleft \triangleleft$], [FWD $\triangleright \triangleright$], [PLAY \triangleright] and [PAUSE]] to find the point where you will create a new chapter mark. Or, use [SKIP |◄◀ / ►►|] to find a Disc Management chapter mark that you wish to delete. Use [▲ / ▼] to select "Add" or "Delete", then press [ENTER]. e.g.) VR mode DVD-RW original GRG Edit - Chapter Mark Recording 1 Add Chapter 2/3 JAN/ 1/08 12:00AM CH10 LP 1:25:47 Playback Use $[\blacktriangle / \nabla]$ to select "Yes", then press [ENTER]. If you select "Add" at step 4, a new chapter mark will be added, and if you select "Delete" at step 4, the chapter mark will be deleted. e.g.) Add Editing Grage Edit - Chapter Mark - Add 1 Yes Chapter 2/3 **Function Setup** m JAN/ 1/08 12:00AM CH10 LP 1:25:47 A new chapter mark will be added. Press [RETURN]. VCR Function Press [RETURN] again and then [RETURN] or [STOP ■] to exit. Data will be written onto the disc momentarily. Others This operation may take awhile to be completed. EN 87

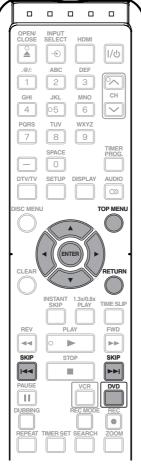
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- Maximum numbers of chapter for each DVD: VR mode DVD : 999 chapters per entire original and playlist
- +VR mode DVD : 254 chapters per disc, 99 chapters per title
- Besides the above-mentioned, it is not likely to be able to add according to recorded time and number of chapters.

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Hiding Chapters







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Press [DVD]. In stop mode, press [TOP MENU]. Title list will appear.

Note

- "Hidden" will be displayed in the preview window while previewing the hidden chapter.
- When you make all chapters in the title "Hidden", "Hidden" is displayed in a thumbnail of the title list.











Use [▲ / ▼] to select "Edit", then press [ENTER].

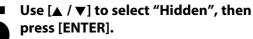




Use [▲ / ▼] to select "Hide Chapter", then press [ENTER]. Submenu will appear.



Use [SKIP I◀◀] or [SKIP ►►I] to decide the chapter to be hidden.



Dress [ENTER].





After this operation is completed, press [RETURN] thrice to exit. Data will be written onto the disc momentarily.

This operation may take awhile to be completed.

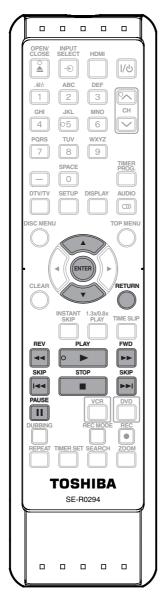
If you want hidden chapters to be "Visible", select the chapter to be shown. Then use [▲ / ▼] to select "Visible", then press [ENTER] at the step 6 above.

Data will be written onto the disc momentarily.

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Deleting a Part of a Title

You can delete a specific part of a title. Even when parts of title are deleted from the playlist, the original title will remain as it is.

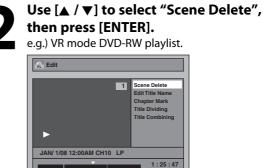


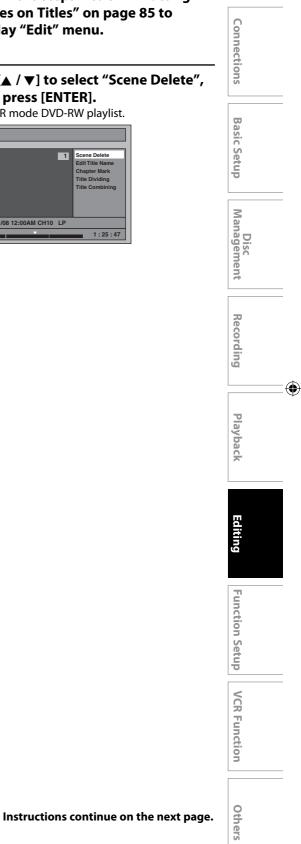
Note

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- When a scene is deleted from an original, the playlist related to the original will be deleted.
- You cannot select "Scene Delete" if the number of chapter marks in the original or playlist is more than 999. (Depends on the content, there is a case that you cannot select "Scene Delete" before the number of chapter marks reaches 999.)
- The recordable disc space will not increase even after deleting a part of a title on the playlist.

Follow the steps 1 to 3 in "Putting Names on Titles" on page 85 to display "Edit" menu.





Introduction

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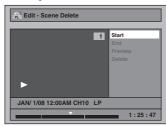
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Deleting a Part of a Title (cont'd)



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Use [SKIP |◀◀ / ▶▶|], [REV $\triangleleft \triangleleft$], [FWD $\triangleright \triangleright$], [PLAY \triangleright] and [PAUSE]] to find the start point, then press [ENTER].

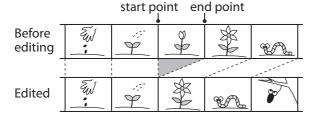


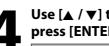
Then use [SKIP |◀◀ / ▶▶|], [REV $\triangleleft \triangleleft$], [FWD $\triangleright \triangleright$], [PLAY \triangleright] and [PAUSE]] again to move to the end point, and press [ENTER].



The cursor will move to "Preview". The bar at the bottom of the screen indicates the total and the elapsed time of the title, and the area selected for deletion is indicated in red. You can check the preview by pressing [ENTER].

• Before and after 5 seconds of the deleted point will be playback for preview.



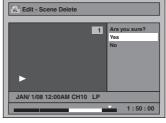


Use [▲ / ▼] to select "Delete" then press [ENTER].



Use $[\blacktriangle / \triangledown]$ to select "Yes" then press [ENTER].

"Are you sure?" will appear. Select "Yes" using $[\land / \lor]$ and then press [ENTER].



The part of the title is deleted.



Press [RETURN] and then [RETURN] or [STOP] to exit.

Data will be written onto the disc momentarily.

This operation may take awhile to be completed.

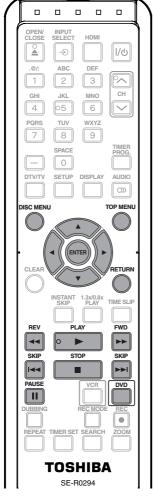
90 ΕN

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Dividing a Title



You can divide one title into two new titles.



Press [DVD].

In stop mode, press [TOP MENU].
For VR mode DVD-RW, press [DISC MENU] to select "Playlist".

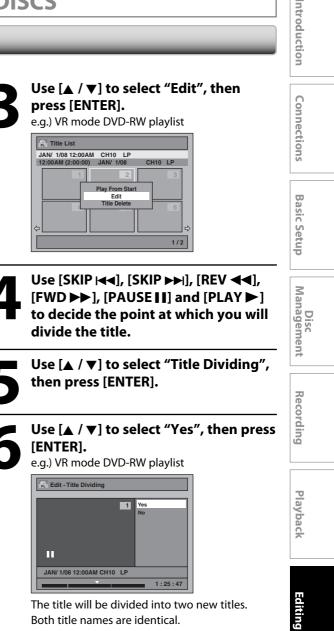
	,

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Use [▲ / ▼/◀ / ▶] to select a desired title, then press [ENTER].

Note

• You cannot divide a title of the disc when the number of recording titles reaches the maximum of 99 (-RW) or 49 (+RW), and the number of recording chapters reaches the maximum of 999 (-RW) or 254 (+RW).



For DVD+RW: Data will be written onto the disc momentarily.

Writing to Disc 90%

awhile to be completed.

For VR mode DVD-RW: Proceed to step 7.

 Press [RETURN] or [STOP ■] to exit.

 Data will be written onto the disc momentarily.

 This operation may take awhile to be completed.

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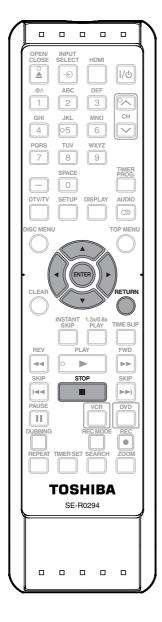
Function Setup

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Combining Titles



You can combine two titles into a single title.



Follow the steps 1 to 3 in "Dividing a Title" on page 91 to display "Edit" menu.



Title combining setting window will appear. Selected title grays out, and the frame of the next title becomes yellow.

Edit - Title Com	bining	
JAN/31/08 11:00PM 11:00PM (0:30:00)		CH13 LP
1	2	3
1+		
4	5	6
¢		⇒
		1/6



Use $[\land / \lor / \lhd / \triangleright]$ to select another title to combine, then press [ENTER]. Selection menu will appear.

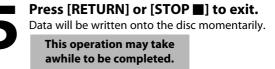


Use $[\blacktriangle / \heartsuit]$ to select "Yes", then press [ENTER].

PL Edit - Titl	e Com	bining		
JAN/31/08 11				
11:00PM (0:3	0:00)	JAN/31/08	CH13 LI	>
	1	2		3
1 + 2	Com	nbine selected ti	itles?	
		Yes	F	6
5				⇒
				1/6

The two titles will combine into a single title.

PL Title List		
JAN/ 1/08 12:00A 12:00AM (2:30:00)		CH10 LP
1	2	3
4	5	6 ¢
		1/6



Note

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- You cannot select the same title twice and combine it into a single title.
- If either one of the two original titles is deleted, the combined new title is also deleted.

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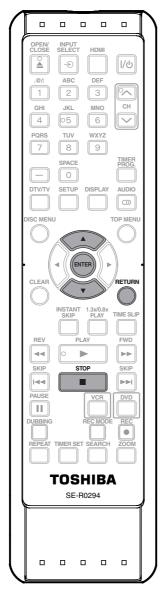
Setting or Releasing the Title Protection



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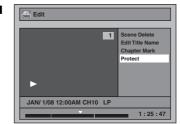
To prevent the accidental editing, or erasing of the titles, you can protect them in "Edit" menu.

You can cancel the title protection feature after it is applied.

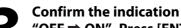


Follow the steps 1 to 3 in "Putting Names on Titles" on page 85 to display "Edit" menu.

Use [▲ / ▼] to select "Protect", then press [ENTER].

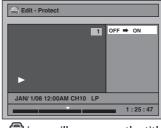


• If the title is protected, ficon will appear in the original list.



"OFF ➡ ON". Press [ENTER] again.

 If the title is already protected, "ON → OFF" will appear. If you press [ENTER], the title will be released from protection.



• 🗊 icon will appear on the title in the original list.

Press [RETURN] and then [RETURN] or

[STOP ■] to exit. Data will be written onto the disc momentarily. This operation may take awhile to be completed.
To protect a whole disc (VR mode DVD-RW, DVD+RW/+R only): Select "Disc Protect OFF ➡ ON" from the DVD Menu, then select "Yes". Refer to "SETTING A DISC TO PROTECT" on

Function Setup

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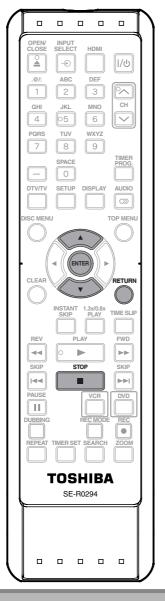
page 40.

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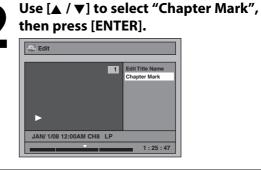
Setting or Clearing All Chapter Marks at Once

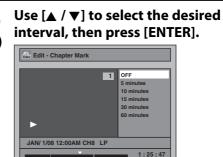
For titles in video mode DVD-RW, you can set or edit chapter at every time interval. You can clear the chapter mark too.

You can specify the interval of chapter marks for titles last more than 5 minutes.



Follow the steps 1 to 3 in "Putting Names on Titles" on page 85 to display "Edit" menu.







Use [▲ / ▼] to select "Yes", then press [ENTER]. Chapter marks are added.

If you select "OFF" at step 3, all the chapter marks are erased.

Press [RETURN] and then [RETURN] or [STOP ■] to exit.

Data will be written onto the disc momentarily.

This operation may take awhile to be completed.

Note

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- You cannot select a chapter mark interval that exceeds the length of a title.
- The length of chapters may slightly deviate from the one specified at the step 3.
- A chapter mark may be delayed depending on the recording content.
- Maximum number of chapter for video mode DVD is 99 chapters per title.
- The interval for auto chapter may be up to two minutes different from the time option you set.



LIST OF THE DEFAULT SETTINGS

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etup	Items (high	light is the default)		Contents	Introduction
Playback	Parental Loc \rightarrow page 99		OFF level 8 [Adult] to	Set the parental level for DVD playback.	
	Audio Out → page 100	Dynamic Range Control	1 [Kid Safe] ON	Compressing the range of sound volume.	Connections
	/ page roo	РСМ	OFF 48kHz	Set whether the sound recorded in 96kHz will be down sampled in 48kHz.	ctions
		Dolby Digital	96kHz PCM Stream	Set the type of sound signal which outputs from the digital audio output jack.	
		DTS	ON OFF	Set whether DTS signal is output or not.	Basic
	Disc Menu L → page 101		English French Spanish Other	Set the language for disc menu language.	Basic Setup
	Audio Langu → page 101		Original English French Spanish Other	Set the language for audio.	Disc Management
	Subtitle Lan → page 101	guage	OFF English French Spanish Other	Set the language for subtitles.	
	Angle Icon \rightarrow page 101		ON OFF	Set whether to display the angle icon or not.	Recording
<u>م</u>	Still Mode \rightarrow page 101		Auto Field Frame	Set the type of still image in pausing playback.	ing
Display	OSD Langua \rightarrow page 102		English Français Español	Set the language for OSD (on-screen display).	Play
5	Screen Save → page 102		OFF 5minutes 10minutes 15minutes 30miniutes	Set the idling time before the screen saver starts.	Playback
	FL Dimmer → page 102		Auto Bright Dark	Set the brightness of the front panel display.	Editing
	DTV CC	Caption Service → page 35	OFF Service1 Service2 Service3 Service4 Service5	Set the type of the DTV closed caption.	
		Recording → page 45	Service6 ON OFF	Set whether to record the DTV closed caption or not.	Function Setup
	CC Style	User Setting \rightarrow page 36	OFF ON OFF	Set the CC style setting whether or not is effective.	ietup
		Font Size → page 37	Large Middle Small	Set font size of the displayed caption.	VCR F
		Font Style → page 37	Style1 Style2 Style3 Style4 Style5 Style6	Set font style of the displayed caption.	VCR Function

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LIST OF THE DEFAULT SETTINGS

Setup	Items (hig	hlight is the default)		Contents
Display	CC Style	Font Opacity \rightarrow page 37	Solid Transparent Translucent Flash	Set the font opacity of the displayed caption.
		Font Color → page 37	White Black Red Green Blue Yellow Magenta Cyan	Set the font color of the displayed caption.
		Edge Type → page 37	None Raised Depressed Uniform L.Shadow R.Shadow	Set edge type of the displayed caption.
		Edge Color → page 37	White Black Red Green Blue Yellow Magenta Cyan	Set edge color of the displayed caption.
		Back Opacity \rightarrow page 37	Solid Transparent Translucent Flash	Set back opacity of the displayed caption.
General Setting		Back Color → page 37	White Black Red Green Blue Yellow Magenta Cyan	Set back color of the displayed caption.
Ū	V-Chip	MPAA Rating → page 103	X NC-17 R PG-13 PG G NR	Set the viewing limitation according to US movie ratings.
		TV Rating → page 103	TV-MA TV-14 TV-PG TV-G TV-Y7 TV-Y NR	Set the viewing limitation according to US TV program ratings.
		Canadian French Rating \rightarrow page 103	18 ans+ 16 ans+ 13 ans+ 8 ans+ G E	Set the viewing limitation according to Canadian French language ratings.
		Canadian English Rating → page 104	18+ 14+ PG G C8+ C E	Set the viewing limitation according to Canadian English language ratings.
		Downloadable Rating → page 104 Change Password	BLOCK SETTING CLEAR DOWNLOADABLE RATING	To set the rating. Clear the downloadable rating information and its setting. Change the password.
1.01		\rightarrow page 104		
Video	Progressive \rightarrow page 10	2	ON OFF	Set to the progressive scan mode (set to "ON") or to the interlace scan mode (set to "OFF").

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LIST OF THE DEFAULT SETTINGS

tup	Items (highlight is the default)		Contents	bc	
Video	TV Aspect \rightarrow page 105	4:3 Letter Box 4:3 Pan & Scan 16:9 Wide	Set a picture size according to aspect ratio of your TV.	Introduction	
	Select Video Select Video - L1(Rear) \rightarrow page 54	Video In S-Video In	Set the video input type for the external input.	0	
Recording	Auto Chapter → page 45	OFF 5 minutes 10 minutes 15 minutes 30 minutes 60 minutes	Insert chapter marks at even time interval.	Connections	
	Recording Audio Select (XP) \rightarrow page 46	PCM Dolby Digital	Set the recording audio type. (Only when the rec mode is set to XP.)	Ba	
	Auto Disc Full Finalize → page 41 End of Timer Rec	ON OFF ON	Set the unit to finalize the disc automatically.	Basic Setup	
	Aspect Ratio (Video mode) \rightarrow page 46	OFF Auto 4:3 16:9	Set a aspect ratio for video mode recording.		
	Dubbing Mode → pages 59-60	VCR ➡ DVD DVD ➡ VCR	Set the VCR to DVD (DVD to VCR) duplication.	Disc Management	
	Make Recording Compatible \rightarrow page 45	ON OFF	Set to prohibit additional recording (OFF) or to replace the title list after recording (ON).	nent	
Clock	Clock Setting \rightarrow page 31 Auto Clock Setting \rightarrow page 30	OFF Auto Manual	Set the clock. Set the clock automatically.	Rec	
	Daylight Saving Time → page 31	ON(MAR-NOV) ON(APR-OCT) OFF	Set the clock for the daylight saving time.	Recording	
Channel	Auto Preset \rightarrow page 27	Air Cable Cable (Extended Scan)	Tune the channels automatically.	P	
	Manual Preset → pages 28-29 TV Audio Select → page 34	Stereo SAP	Tune the channels manually. Set the analog TV audio type for output and video mode or DVD+RW/+R recording.	Playback	
DivX	DivX [®] VOD \rightarrow page 106 DivX Subtitle \rightarrow page 106	OFF English	Provide DivX [®] VOD registration code. Set the language for DivX [®] Subtitle.		
		French Spanish German Italian Swedish Dutch Russian1		Editing	
	-	Russian2 Hungarian Polish Czech		Function Setup	
HDMI	Format \rightarrow page 107	RGB YCbCr	Set the color space for the HDMI output.	i Setu	
	HDMI Audio \rightarrow page 108	ON OFF	Set whether to output the HDMI audio signal or not.	đ	
	RGB Range → page 108	Normal Enhanced	Set the black-white contrast level for HDMI RGB output.	VCR Function	
Reset All \rightarrow page 109		Yes No	Set to the default setting.	Fun	

Note

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Your change to each settings stays on even when the power is off.
An item which is not currently available is grayed in the settings.

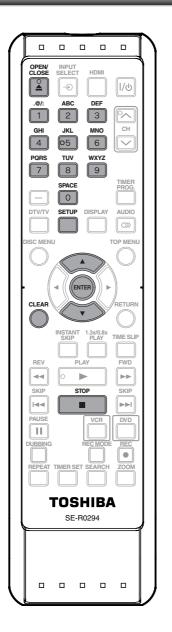


Others

:

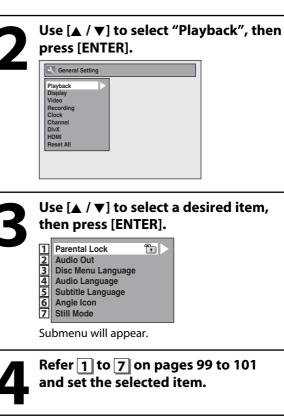
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Playback



Press [STOP] if you are playing back a disc.

Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [ENTER].



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When you finish with the setting, press [SETUP] to exit.

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Playback (cont'd)

Parental Lock (Default: OFF)

Some DVD-video feature a parental lock level. Playback will stop if the ratings exceed the levels you set, it will require you to enter a password before the disc will playback. This feature prevents your children from viewing inappropriate material.

Use $[\blacktriangle / \triangledown]$ to select the desired level, then press [ENTER].

Playback	Parental Lock		
Display	OFF	ck	b
Video	B [Adult]		
Recording	7 [NC 17]	anguage	
Clock	6 [R]	uage	
Channel	5 [PG R]	iguage	
DivX	4 [PG 13]		
HDMI	3 [PG]		
Reset All	🗆 2 [G]		
	1 [Kid Safe]		

If a password has not been set yet, proceed to \mathbf{A} . If a password has been set already, proceed to \mathbf{B} .

RATING EXPLANATIONS

- OFF : Parental Control is inactive; all discs can play.
- 8 [Adult]: DVD software of any grades (adult/general/ children) can be played back.
- 7 [NC 17]: No one under 17 admitted.
- 6 [R]: Restricted; under 17 requires accompanying parent or adult guardian.
- 5 [PG R]: Parental Guidance Recommended.
- 4 [PG13]: Unsuitable for children under 13.
- 3 [PG]: Parental Guidance suggested.
- 2 [G]: General Audience.
- 1 [Kid Safe]: Suitable for children.

Note

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- Parental lock function may not be available to some discs.
- With some DVD, it may be difficult to find if they are compatible with parental lock. Be sure to check if the parental lock function operates in the way that you have set.
- Record the password in case you forget it.
- If there is a DVD in the unit when you set up the parental lock, press [OPEN/CLOSE ▲] to activate the parental lock level.

A A password has not been set yet.

Use [▲ / ▼] to select "Yes", then press [ENTER]. Use [the Number buttons] to enter a new password except for 4737, then press [ENTER].

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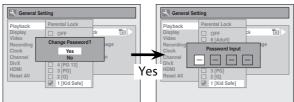
Editing

unction Setup

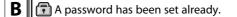
VCR Function

Others

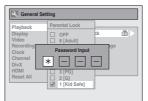
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Your setting will be activated.



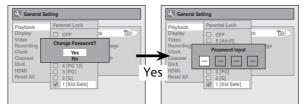
Use [the Number buttons] to enter the current password.



Your setting will be activated.

If you want to change password, use [▲ / ▼] to select "Yes" then press [ENTER]. Use [the Number buttons] to enter a new password, then press [ENTER].

<change the password>



Your setting will be activated.

Note

- Press [CLEAR] to erase numbers entered incorrectly.
- When you forget the password or you want to clear all settings in "Parental Lock" menu, enter 4,7,3,7 using **[the Number buttons]** in password input window. Password will be cleared and parental levels will be set to "OFF".

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EN

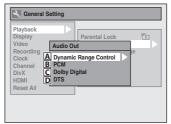
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Playback (cont'd)

2 Audio Out

Choose the appropriate audio setting for your external device. It will only affect a disc playback.

Use $[\blacktriangle / \mathbf{\nabla}]$ to select a desired item, then press [ENTER].





Set to "ON" to compress the range between soft and loud sounds.

Use $[\blacktriangle / \nabla]$ to select a setting, then press [ENTER].

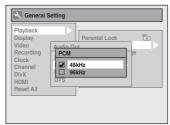
Playback Display Video Recording Clock Channel DivX	Audio Out Dynamic Range Control OFF
HDMI Reset All	

Your setting will be activated.

Note

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- Dynamic range control function is available only on the discs which are recorded in the Dolby Digital format.
- **B** Settings for PCM (Default : 48kHz)
- Use $[\blacktriangle / \nabla]$ to select a setting, then press [ENTER].



Your setting will be activated.

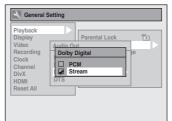
- **48kHz** : If your amplifier/decoder is NOT compatible with 96kHz PCM, select "48kHz". 96kHz sound will be output in 48kHz.
- **96kHz** : If your amplifier/decoder is compatible with 96kHz PCM, select "96kHz". 96kHz sound will be output.

Note

When playing back disc with copyright protectionEven if you select "96kHz", the sound will be down sampled at 48kHz.

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- **C** Settings for Dolby Digital (Default : Stream)
- Use $[\blacktriangle / \triangledown]$ to select a setting, then press [ENTER].



Your setting will be activated.

- **PCM** : Converts the Dolby Digital into PCM (2 channel). When your amplifier/decoder is NOT compatible with Dolby Digital, set to "PCM".
- Stream : Outputs Dolby Digital signals. When your amplifier/decoder is compatible with Dolby Digital, set to "Stream".
- **D** Settings for DTS (Default : OFF)

Select a setting using $[\blacktriangle / \triangledown]$, then press [ENTER].

Playback Display Video Recording Clock Channel DivX HDMI Reset All	Parental Lock
--	---------------

Your setting is activated.

ON

OFF

- : Outputs DTS signals. If your amplifier / decoder is compatible with DTS, set to "ON".
- : No DTS signal is output.
- If your amplifier / decoder is NOT compatible with DTS, set to "OFF".

Playback (cont'd)

Disc Menu Language (Default : English) 3 |

Set the language for disc menu.

Use [▲ / ▼] to select a language, then press [ENTER].

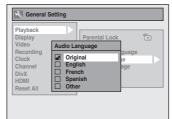
General S	Setting			
Playback Display Video Recording Clock Channel DivX HDMI Reset All	Disc Mer	ich nish	guage le age	

Your setting will be activated.

4 Audio Language (Default : Original)

Set the audio language.

Use $[\blacktriangle / \mathbf{\nabla}]$ to select a language, then press [ENTER].



Your setting will be activated.

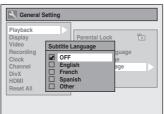
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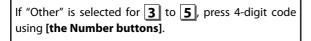
• When "Original" is selected, the audio language will be in the disc's default language.

5 Subtitle Language (Default : OFF)

Set the subtitle language.

Use $[\blacktriangle / \nabla]$ to select a language, then press [ENTER].





Code Inpu $\overline{}$ $\overline{}$ $\overline{}$ $\overline{}$ $\overline{}$

• When you finish entering the code, press [ENTER]. Refer to the language code table on page 117.

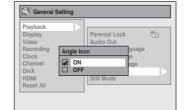
Note

- Only the languages supported by the disc can be selected.
- Audio language setting may not be available to some discs.
- You can also change or switch off the subtitles on a DVD from the disc menu if it is available.
- Press [CLEAR] to erase numbers entered incorrectly.

Angle Icon (Default : ON) 6

Set to "ON" to show the angle icon during the playback.

Use $[\blacktriangle / \nabla]$ to select a setting, then press [ENTER].



Your setting will be activated.

Still Mode (Default : Auto) 7

Select "Auto" usually.

Use $[\blacktriangle / \nabla]$ to select a setting, then press [ENTER].



Your setting will be activated.

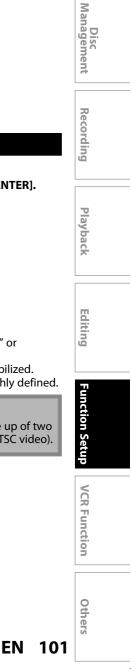
Auto : Optimum resolution setting ("Field" or "Frame") will be selected.

Field : Images in the still mode will be stabilized. Frame

: Images in the still mode will be highly defined.

Note

• Frame is one completed video image made up of two fields (There are 30 frames per second of NTSC video).



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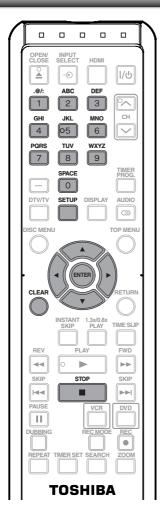
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Press [STOP] if you are playing back a disc.

Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [ENTER].

Use [▲ / ▼] to select "Display", then press [ENTER].

Use [▲ / ▼] to select a desired item, then press [ENTER].

 1
 OSD Language

 2
 Screen Saver

 3
 FL Dimmer

 4
 DTV CC

 5
 CC Style

 6
 V-Chip

Submenu will appear.

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1 OSD Language (Default : English)

Set the language for the on-screen display.

Use [▲ / ▼] to select a language, then press [ENTER].

General S	Setting
Playback	
Display	OSD Language
Video	OSD Language
Recording	
Clock	English
Channel	Français Español
DivX	
HDMI	
Reset All	

Your setting will be activated.

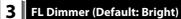


Set the time to activate the screen saver function on the TV screen.

Use $[\blacktriangle / \triangledown]$ to select a setting, then press [ENTER].

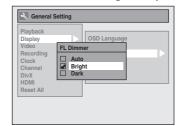
Playback Display	OSD Language
Video	Screen Saver
Recording Clock Channel DivX HDMI Reset All	□ OFF □ 5 minutes ☑ 10 minutes □ 15 minutes □ 30 minutes

Your setting will be activated.



Set the front panel display brightness.

Use $[\blacktriangle / \mathbf{\nabla}]$ to select a setting, then press [ENTER].



You can choose one from "Auto", "Bright" or "Dark". If "Auto" is selected, the display gets dark when the power is off.

4 DTV CC

Refer to "DTV Closed Caption" and "Recording the DTV Closed Caption" on page 35 and 45.



Refer to "Closed Caption Style" on pages 36-37.

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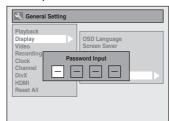
Display (cont'd)

6 V-Chip

With the v-chip system in this unit, you can set the viewing limitation for the analog/digital TV programs received from the tuner or recorded on DVDs to prevent your children from watching inappropriate programs. If the unit detects a blocked program, a restriction message appears and you are not allowed to view the program.

1) Use [the Number buttons] to enter the access password.

If you have not set the password, first, use [the Number buttons] to set the access password, then press [ENTER]. The number you entered will be stored as the access password.



2) Use [▲ / ▼] to select a desired item, then press [ENTER].



Note

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- When you record a TV program blocked by the v-chip settings on the cassette tape, the audio/video signal of the blocked part cannot be recorded properly. No audio/video signal will be output when playing back that part.
- When you press [**DISPLAY**] while playing back the blocked part on the cassette tape, the counter display will not be shown properly. This is not a malfunction.

A MPAA Rating

B TV Rating

C Canadian French Rating

D Canadian English Rating

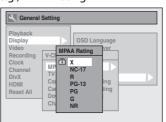
You can set the viewing limitation according to MPAA rating (US movie ratings),

TV Rating (US TV program ratings),

Canadian French Rating (Canadian French language ratings), Canadian English Rating (Canadian English language ratings).

Use [▲ / ▼] to select the desired rating, then press [ENTER] repeatedly to switch between view and block. When it is blocked a key icon will appear.

e.g.) MPAA rating



[MPAA Rating]

Rating	Category	
Х	Mature audience only	higher
NC-17	No one under 17 admitted	
R	Restricted; under 17 requires accompanying parent or adult guardian	
PG-13	Unsuitable for children under 13	1
PG	Parental guidance suggested	
G	General audience	
NR	No rating	lower

[TV Rating]

Rating	Category	
TV-MA	Mature audience only	higher
TV-14	Unsuitable for children under 14	
TV-PG	Parental guidance suggested	
TV-G	General audience	
TV-Y7	Appropriate for all children 7 and older	
ΤV-Υ	Appropriate for all children	- ↓
NR	No rating	lower

[Canadian French Rating]

Rating	Category		
18 ans+	Adult audience only	higher	
16 ans+	Unsuitable for ages under 16		
13 ans+	Unsuitable for ages under 13		
8 ans+	Unsuitable for ages under 8		
G	General audience	•	
E	Exempt program	lower	

Playback Editing

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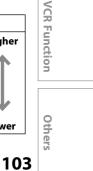
Management

Recording

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Disc

Function Setup



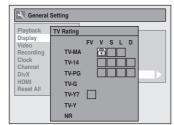
EN

Display (cont'd)

[Canadian English Rating]

Rating	Category	
18+	Adult audience only	higher
14+	Unsuitable for ages under 14	
PG	Parental guidance suggested	
G	General audience	
C8+	For children over 8	
С	For all children	
E	Exempt program	lower

As for TV Rating's TV-MA, TV-14, TV-PG, or TV-Y7, you can further set the sub ratings to block specific elements of programming. Press $[\blacktriangle / \checkmark / \checkmark / \circlearrowright]$ to select the desired rating or sub rating, then press [ENTER] repeatedly to switch between view and block. Sub rating status will appear on the side of the main rating.



Sub Rating	Category	Rating	
FV	Fantasy Violence	TV-Y7	
v	Violence	TV-PG	
S	Sexual Situation	TV-14	
L	Coarse Language	TV-MA	
D	Suggestive Dialogue	TV-PG, TV-14	

Note

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Changing the main rating to block or view

automatically changes all its sub ratings to the same (block or view).

E Downloadable Rating

Set the rating system via digital broadcasting, or clear the downloaded ratings.

This feature is available only after the digital TV ratings have been downloaded

• The ratings can be downloaded by the unit automatically if it is available in your area.

If the broadcasting signal does not have the downloadable rating information, the message below will appear.

Downloadable Rating is currently not available.

 This message will also appear when you try to access "DOWNLOADABLE RATING" after you have cleared the downloadable rating information, and the new information has not been downloaded.

To set the rating:

Use $[\land / \checkmark]$ to select "BLOCK SETTING" then press [ENTER] to show the various types of ratings. Use $[\land / \checkmark]$ to select a desired rating to set, then press [ENTER] to show the levels for the rating. Use $[\land / \checkmark]$ to select a level, then press [ENTER] to switch "VIEW" or "BLOCK". If you set one level to "BLOCK", all the higher levels will be turned to "BLOCK" automatically.

Note

- Depending on the type of rating system, you may set the levels individually.
- The downloaded rating does not block the DVD contents.
- The TV program blocked by the downloaded ratings cannot be recorded.

To clear the downloadable rating information and its setting:

Use $[\land / \lor]$ to select "CLEAR DOWNLOADABLE RATING", then press [ENTER].



Change the current password.

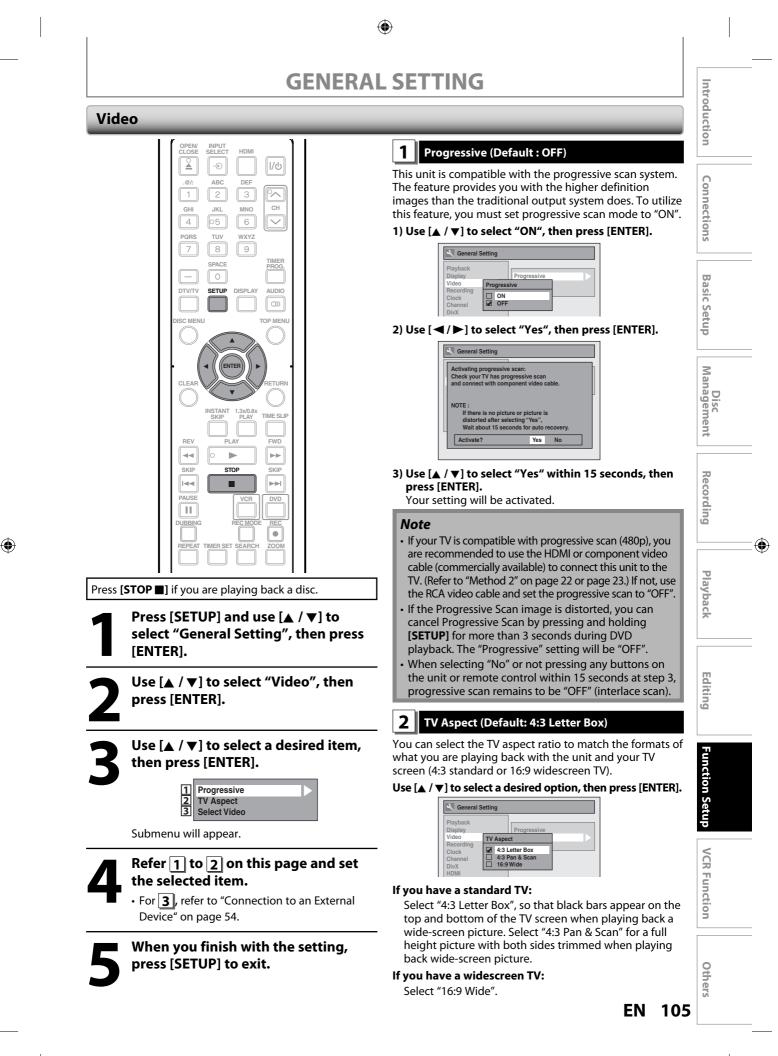
Use [the Number Buttons] to enter new access password.

Note

- Press [CLEAR] to erase numbers entered incorrectly.
- When you forgot the access password, enter 4,7,3,7 using [the Number buttons] in password input
- window. Password will be cleared.



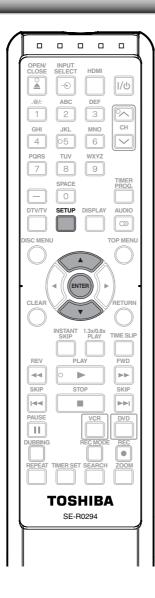
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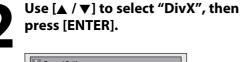
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DivX®

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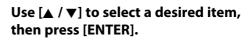


Press [SETUP] in stop mode and use [▲ / ▼] to select "General Setting", then press [ENTER].



General Setting	
Playback Display Video Recording Clock Channel DivX HDMI Reset All	

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1	DivX®VOD
2	DivX Subtitle
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1 DivX[®] VOD

This unit allows you to play back the files purchased or rented from DivX[®] VOD (video-on-demand) services. The files are available on the internet. When you purchase or rent DivX[®] VOD files on the internet, you will be asked to enter an activation/registration code. This menu item provides you with the activation/registration code. On how to activate this unit for the DivX[®] VOD file playback, visit www.divx.com/vod.

Playback		_
Displa Video	DivX®VOD	
Recor	Your registration code is :	
Chanr	******	
DivX HDMI Reset	To learn more visit	

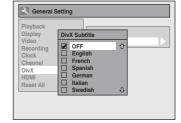
Note

- One registration code is only valid for one $\mathsf{Div}\mathsf{X}^{\otimes}$ VOD file.
- You must first download the file from the internet and play it back on this unit before you are able to get another code.
- You must follow this step every time you purchase or rent a DivX[®] VOD file from the internet.
- For more information for DivX[®], please visit <u>http://www.divx.com/vod</u>.
- The registration code will be displayed in 8 characters consist of numbers between 0 to 9 and capital letters chosen randomly.

2 DivX Subtitle (Default : OFF)

Set the DivX[®] subtitle.

Use $[\blacktriangle / \triangledown]$ to select a setting, then press [ENTER].



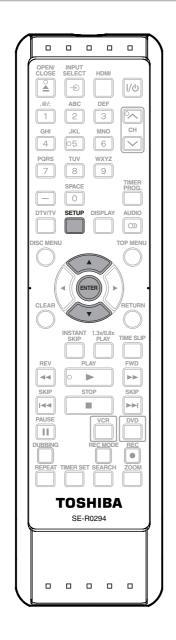
Your setting will be activated.



When you finish with the setting, press [SETUP] to exit.

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HDMI



LSETTING	Introduction	
Press [SETUP] in stop mode and use [▲ / ▼] to select "General Setting", then press [ENTER]. Use [▲ / ▼] to select "HDMI", then	on Connections	
Press [ENTER].	Basic Setup	
 You cannot select HDMI when an HDMI cable is not connected or the TV's external input channel is not set to HDMI. 	Disc Management	
Use [▲ / ▼] to select a desired item, then press [ENTER]. 1 Format 2 HDMI Audio 3 RGB Range	Recording	
When you finish with the setting, press [SETUP] to exit.	Playback	•
You can select the color space for HDMI output. Set the appropriate color space for your display device. Use [▲ / ▼] to select a setting, then press [ENTER]. • When the connected device is not compatible with the Y/Cb/Cr, HDMI signal is output as RGB regardless of the setting.	Editing	
General Setting Playback Display Video Recording Channel DixX HDM Reset All	Function Setup	
Your setting will be activated.	VCR Function	
EN 107	Others	

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HDMI (cont'd)

2 HDMI Audio (Default : ON)

If you do not want to output the audio through HDMI (when you digitally output the audio through the COAXIAL DIGITAL AUDIO OUT jack to your audio system, etc.), you can set the HDMI audio output off.

Use $[\blacktriangle / \triangledown]$ to select a setting, then press [ENTER].

• Set to "OFF" when the HDMI sound is not output.

Playback Display	Fo	rmat	
Video	HDMI Audio		
Recording	ON ON		
Clock		P	
Channel			
DivX			
HDMI			
Reset All			

Your setting will be activated.

3 RGB Range (Default : Normal)

You can adjust the RGB range to make the dark areas of the HDMI images brighter.

Use $[\blacktriangle / \triangledown]$ to select a setting, then press [ENTER].

Select "Enhanced" if the black-white contrast is not clear.

This setting is effective only for HDMI RGB output.

	Format
Video	RGB Range
Recording Clock Channel	Normal Enhanced
DivX HDMI	
Reset All	

Your setting will be activated.

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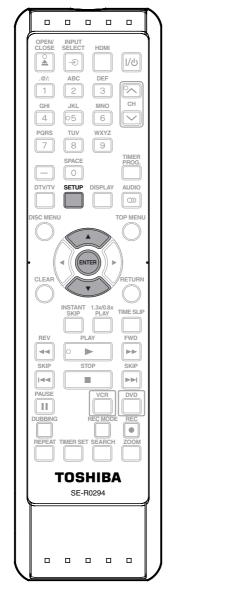
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GENERAL SETTING

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Reset All

Reset the setting to default.



	uction
Press [SETUP] in stop mode and use [▲ / ▼] to select "General Setting", then press [ENTER].	Connection
2 Use [▲ / ▼] to select "Reset All", then press [ENTER]. ^[] General Setting ^[] ^[] General Setting ^[]	Basic Setup
Reset AII Select "Yes" using [▲ / ▼], then press	Disc Management
Figure 2 Setting Playback Display Video Recordin Clock Channel DivX No HDMI	Recording
"Are you sure?" will appear. Select "Yes" using [▲ / ▼] and then press [ENTER]. Your setting will be initialized.	Playback
	Editing
	Function Setup
	VCR Function
	Others

Note

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- The settings listed below will remain unchanged even after resetting to the factory default.
- Clock setting
- Channel setting
- OSD language setting
- Parental lock setting
- DivX[®] VOD code
- V-Chip setting
- Timer programs

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Introd

VCR FUNCTIONS

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Playback

с ^рvнs

1)Press [I/ O ON/STANDBY] on the remote control or the front panel of the unit.

When you are playing back a cassette tape, turn on the TV and be sure to select the input to which the unit is connected. **Press [VCR].**

2)Insert a prerecorded cassette tape. Press [PLAY ►] to begin playback.

3) During playback, press [PAUSE]].

Playback will pause and sound will be muted.

4) Press [PLAY ►] to resume playback.

5)Press [STOP ■] to stop playback.

6)Press [OPEN/CLOSE ▲] to eject the cassette tape.

Note

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- When a cassette tape ends during playback, fastforward or normal recording, the unit will automatically rewind to the beginning of the cassette tape. After rewinding finishes, the unit will eject the cassette tape.
- When a cassette tape without erase-protection tab is inserted, the unit will start playback automatically.
- Tracking will be automatically adjusted upon playback. To adjust the tracking manually, press
 [CH ^ /].

Recording

<u>a</u>⊈vhs

Press [VCR] first.

Before recording, make sure:

- The desired channel is selected by pressing [the Number buttons] or [CH \land / \checkmark].
- There is a cassette tape with an erase-protection tab in the unit.
- The desired recording speed is selected in SP (standard playback) or SLP (super long playback) mode by pressing [**REC MODE**].

Recording speed:

Tape speed	Recording / playback time		
Type of tape	T60 T120 T160		T160
SP	1hour	2hours	2-2/3hours
SLP	3hours	6hours	8hours

• Refer to pages 49-53 for instructions on timer recording.

1)Press [REC ●] to begin the recording.

To temporarily stop recording or to resume it, press **[PAUSE II]**. After the unit has been in pause mode for 5 minutes, it will stop automatically to protect the cassette tape and the video head from damage.



2)Press [STOP] when the recording is completed.

Accidental erasure prevention

To prevent accidental recording on a recorded cassette tape, remove its eraseprotection tab. To record on it later, cover the hole with cellophane tape.



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VCR FUNCTIONS

One-touch Timer Recording (OTR)

CVHS

This feature allows you to set the recording length simply by pressing [REC \bullet] on the remote control.

Press [VCR] first.

1)During normal recording, press [REC ●] to begin the one-touch timer recording.

You can select a fixed recording time by pressing **[REC** \bullet] repeatedly.

(Normal recording)	→● (1:00)
	●(7:30) ◀

When the one-touch timer recording is finished, the unit will turn off automatically.

To change the recording length during the one-touch timer recording, press [**REC** ●] repeatedly until the desired length appear.

To cancel the one-touch timer recording within the specified time, press [**STOP**].

Note

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- The remaining recording time will be displayed on the front panel display during one-touch timer recording. Press [DISPLAY] to see it on the TV screen.
- You cannot pause the one-touch timer recording.
- If VCR the one-touch timer recording is completed during DVD playback or recording, the VCR will be in stop mode and the DVD keeps the current mode.
- Unlike a timer recording, you can perform the following operations during the one-touch timer recording.
- Turning off the power (One-touch timer recording will be canceled.).
- Using [REC •] or [STOP].
- When the one-touch timer recording is finished and the power is turned off, the unit will switch to the standby mode automatically if a timer recording has been programmed. Press [TIMER SET] to cancel the standby mode for using the unit continuously.

Index Search

с ^рvнs

An index mark will be assigned at the beginning of each recording you make. You may skip to a specific marked point by following the steps below. Introduction

Connections

Basic Setup

Disc Management

Recording

Playback

Editing

Function Setup

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Press [VCR] first.

1)Press [SEARCH] so that "INDEX SEARCH" menu appears.

2) Using [the Number buttons], enter the number of recordings you wish to skip within 30 seconds.

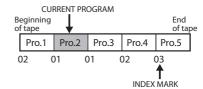


3)Press [REV ◀◀], [FWD ►►] to start index search.

If you want to go in the forward direction, press [FWD ►►].

If you want to go in the reverse direction, press **[REV 44]**.

After index search, the VCR will play back the cassette tape automatically.



Note

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• You can make the index mark up to 20.

Others

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VCR FUNCTIONS

Time Search

<u>а </u>VHS

This feature allows you to go to a specific point on a cassette tape by entering the exact amount of time you wish to skip in order to reach the point.

Press [VCR] first.

1)Press [SEARCH] repeatedly so that "TIME SEARCH" menu appears.

2) Using [the Number buttons], enter your desired time to skip within 30 seconds.

You can set the time up to 9:59.



3) Press [REV ◀◀], [FWD ►►] to start time search.

If you want to go in the forward direction, press [FWD ►►].

If you want to go in the reverse direction, press **[REV 44]**.

After time search, the unit will play back the cassette tape automatically.

Note

Index search and time search are not available during recording.

- Press [STOP] to stop the search.
- If the end of the cassette tape is reached during search, this unit will cancel the search and rewind the cassette tape.

Other Operations

CPVHS

Press [VCR] first.

Fast forward:

When the unit is in stop mode, press **[FWD >>]** to fast forward the cassette tape.

Rewind:

When the unit is in stop mode, press **[REV <**] to rewind the cassette tape.

To cue or review picture during playback (picture search):

Press [**REV 4**], [**FWD >>**] during playback. Press it again and the unit will search in super high speed. (in the SLP mode only)

To freeze the picture on TV screen during playback (still mode):

Press [**PAUSE II**]. Each time you press the button, the picture will be forwarded by one frame.

If the picture begins to vibrate vertically during the still mode, stabilize the picture by pressing [CH \land / \checkmark] on remote control.

If the picture is distorted or rolling vertically, adjust the vertical hold control on your TV, if equipped.

Counter reset:

Press [CLEAR] to reset the counter to "0:00:00".

To playback in slow motion:

Press [**PAUSE II**] during playback, then press [**FWD** ►►]. Press [**FWD** ►►] or [**REV** ◄◄] repeatedly during slow motion playback to select the desired speed.

Automatic rewind:

When a cassette tape is played back or fast forwarded to its end, the cassette tape will rewind to the beginning, stop and eject itself.

To repeat a playback indefinitely without touching [**PLAY** ►] (Auto Repeat Playback):

During normal playback, press [**REPEAT**]. When a tape is played to its end, the tape will rewind to the beginning and start playback itself. To cancel the Auto Repeat Playback, press [**REPEAT**] again.

When you playback a cassette tape recorded in Hi-Fi stereo:

Press [AUDIO ODD] on the remote control to select Hi-Fi or MONO for playback sound mode.

- If you have connected a stereo TV to this unit, select "HIFI".
- If you have connected a monaural TV to this unit, select "MONO".

Your Selection	н	MONO	
Type of recorded tape	L-channel R-channel		MONO
non Hi-Fi tapes	Monaural	Monaural	Monaural
Hi-Fi tapes recorded in Hi-Fi stereo	L	R	L+R
Hi-Fi tapes recorded main audio program	Main audio program	Main audio program	Main audio program
Hi-Fi tapes recorded second audio program	Second audio program	Second audio program	Second audio program

Note

- Still/slow mode will stop after 5 minutes to prevent damage to the cassette tape and the video head.
- To return to playback from the picture search/still/

slow mode, press [PLAY ▶].

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TROUBLESHOOTING

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Before requesting service for this unit, check the table below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.

Symptom	Remedy	tion
The power does not turn on.	 Check that the AC power cord is connected securely. Check the breaker (in case of power failure). Press [TIMER SET] to cancel the timer standby mode. 	Cont
There is no picture.	 Re-connect the connecting cords securely. Check if the connecting cords are damaged. Check the connection to your TV (pages 22-24). Check if the progressive scan mode is set correctly according to your TV (page 105). Switch the input selector on your TV (such as to "L1") so that the signal from the unit appears on the TV screen. 	Connections
TV program reception does not fill the TV screen.	 Try to set the channels with "Auto Preset" or "Manual Preset" in "Channel" menu (pages 27-29). Select a channel of any TV program using [CH / /]. 	Basic Setup
TV channels cannot be changed.	 Switch the input to TV. Connect the RF coaxial cable correctly (pages 19-21). 	
TV program pictures are distorted.	 Check if all the connections are made correctly (pages 19-24). Adjust TV antenna. Adjust the picture. (Refer to the TV's instruction manual.) Place the unit and TV farther apart. Place the TV and any bunched RF coaxial cables farther apart. 	Disc Management
Playback picture is distorted.	 Keep the device which may cause electrical disturbances, such as a cellular phone, away. 	~
Playback picture or TV program from the device connected through the unit is distorted.	• If the playback picture output from a DVD player, VCR or tuner goes through the unit before reaching your TV, the copy-protection signal applied to some programs could affect picture quality. Disconnect the playback device in question and connect it directly to your TV.	Recording
No analog TV closed captions are output.	 If you are using HDMI connection to watch the TV programs through this unit's tuner, analog TV closed caption cannot be output. Try using other connection. 	9
There is no sound.	 Re-connect all connections securely. Check if the connecting cord is damaged. Check the connections to the amplifier input. Check if the input device setting on the amplifier is correct. When the unit is in pause mode or in slow-motion playback mode, sound is not output. This is not a malfunction. When the unit is in fast forward or fast reverse mode, sound is not 	Playback
	output. This is not a malfunction. • If the audio signal does not come through the DIGITAL AUDIO OUT (COAXIAL) jack, check the setting in "Audio Out" (page 100).	Edi
No DTS sound on digital output.	Change the setting menu for "DTS" to "ON".	Editing
No DTS sound from analog output	• This unit has no analog sound output when playing back the selected DTS sound mode.	
Nothing was recorded even though you set the timer setting correctly.	 There was a power failure during recording. The unit's internal clock stopped due to a power failure that lasted for more than 30 seconds. Reset the clock (page 31). The program contains copy protection signals that restricts copying. The timer setting overlapped with another setting that has priority. 	Function Setup
Timer recording does not start.	 No disc is inserted. A disc is not recordable (finalized DVD-RW/-R, finalized DVD+R, a fully recorded disc, etc.). 	etup
not start from the beginning.	 The timer setting overlapped with another setting that has priority (page 53). Disc space was not enough. "Make Recording Compatible" is not set to "ON", when recording onto DVD+RW/+R that was recorded on other unit. 	VCR Function
Timer recording is impossible.	• Make sure 🕑 appears on the front panel display of this unit. If not, press [TIMER SET].	7

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Introducti

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TROUBLESHOOTING

Symptom	Remedy
The remote control does not function.	 Batteries are weak. There are obstacles between the remote control and the unit. The remote control is far from the unit. There are no batteries in the remote control. Check if the unit is turned on. The remote control is not pointed at the infrared sensor window on the unit. Press [DVD] or [VCR], whichever you need. Then, try again. Press [TIMER SET] to cancel the timer standby mode.
The unit does not operate properly.	 When static electricity, etc., causes the unit to operate abnormally, unplug the unit and then plug it in again.
DV signal cannot be input.	 Before connection, turn on the power supplies for both this unit and the DVC, and make sure that these units are in stop mode. Only a "DVC-SD" signal can be input from the DVC to this unit. Other types of signals are not supported. Do not connect any device other than the DVC. Even if a recorder or PC with another DV terminal is connected, the DV function will not operate If the DVC is not recognized after connection, turn off the power supply for the unit and re-connect the DVC.
The DVC cannot be operated with this unit.	 Signal input or DVC operation from this unit may be disabled depending on the type of DVC. If a DVC signal cannot be input, use an external input (L1/L2) for analog connection via audio/video cables. DVC control may be disabled depending on the type of DVC, even in a mode other than camera mode. In this case, switch to DVD control and execute the normal recording procedure while operating the DVC.
Certain functions of the unit cannot operate.	 Some functions may not operate depending on the type of DVC. For example, if the DVC does not support slow playback mode, the slow playback function is disabled. With L3 (DV), the disc display menu does not appear unless disc playback is executed.
DV audio signal cannot be switched.	• For recording with the DVC, the recording audio signal can be set to 12 bits or 16 bits. However, when 16-bit recording mode is selected, audio signal cannot be switched. To record an audio signal, set it to 12 bits.
There is no picture.	 If the setup menu appears on the TV screen, press [RETURN] to exit. Check if the progressive scan mode is set correctly according to your TV (page 105).
Picture noise appears.	Clean the disc with a cleaning cloth.
Playback picture from the external devices connected to this unit is distorted.	 If the picture output signal from the external devices passes through this unit to get to your TV, the copy protection signal applied to some DVD could affect the picture quality. Disconnect the playback device in question and connect it directly to your TV.
There is no sound.	 If you are using DIGITAL AUDIO OUT (COAXIAL) jack, check the setting in "Audio Out" (page 100). Clean the disc with a cleaning cloth.
Sound is noisy.	Clean the disc with a cleaning cloth.
The disc does not play back.	 No disc is inserted. A blank disc is inserted. The disc is upside down. Insert the disc with the labeled side facing up. The disc is not correctly inserted. The unit cannot play back certain discs (such as a CD-ROM) (pages 9-10) The region code on the DVD-video does not match the unit (page 10). Moisture has condensed inside the unit. Remove the disc and leave the unit turned on for about 2 hours until the moisture evaporates (page 4). If the disc was recorded on another recorder, the unit cannot play back the disc if it was not finalized.
Playback image freezes for a second.	• During the playback of 2 layered disc, picture may freeze for a moment when the 1st layer switches to the 2nd layer. This is not a malfunction.
Discs recorded on this unit cannot be played back on other DVD players.	 If you are using DVD-RW/-R or DVD+R, please ensure you finalized the disc after recording (pages 41-43).
The disc does not start playback from the beginning.	 Resume playback was activated (page 68). Press [STOP] twice. You have inserted a disc whose title menu or DVD menu automatically appears on the TV screen when it is first inserted.

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TROUBLESHOOTING

TR	OUBLESHOOTING	Intr
Compartment	Domotiv	od
Symptom The unit starts playing back the disc automatically.	Remedy The DVD-video features an auto playback function. 	Introduction
Some functions such as stop, search, or slow-motion playback cannot be performed.	• Depending on the disc, you may not be able to do some of the operations. Refer to the instruction manual supplied with the disc.	Co
The language for the sound track cannot be changed.	 The title does not have the multilingual audio tracks. The DVD-video prohibits the changing of the language for the sound track. 	Connections
The subtitle language cannot be changed or turned off.	 Multilingual subtitle are not recorded on the DVD-video. 	м М
The angles cannot be changed.	 Multi-angles are not recorded on the DVD-video being played back. The angle-change operation is whenever possible as long as the disc contains a multi-angle portion. Actual change will be performed when the portion has come up. The DVD-video prohibits changing angles. Try changing the angle using the DVD-video's menu. 	Basic Setup
Recording does not stop immediately after you press [STOP ■].	 It may take a few seconds for the unit to input disc data before recording stops. 	3
The disc tray does not open when you press [OPEN/CLOSE ▲].	• It may take a few seconds for the disc tray to open after you have recorded or edited a disc. This is because the unit is adding disc data to the disc.	Dianago
"Repairing" appears on the TV screen.	 If there is a power failure or unplugging during recording, finalizing, formatting or editing (even after "Repairing" disappears), a repairing process will begin automatically just after turning the unit on again. It may take several minutes up to about several hours. 	Disc
D In a case you intend to cancel the repairing process.	 If you intend to cancel the repairing process, press [▲ OPEN/CLOSE] on the front panel, then select "Yes" and press [ENTER]. After that, press [OPEN/CLOSE ▲] to take out the disc. The disc canceled during the repairing process MAY NOT work. 	Recording
No image from HDMI connection.	 Check the HDMI connection. (Check the status of the HDMI related indications.) Check whether the connected monitor device or other device supports HDCP. (This unit will not output a video signal unless the other device supports HDCP.) Check the setting of HDMI. 	Playback
	 Check whether the output format of this unit (HDMI FORMAT) matches the supported input format of other connected device. If the unit is connected to the unauthorized display device with an HDMI cable, the audio/video signal may not be output when playing back a commercial DVD-video. 	Editing
There is no sound or the sound is distorted.	 The HDMI sound is not output when "HDMI Audio" is set to "OFF". Check the RCA audio cable connection. If you are using HDMI-DVI conversion cable, you must connect the RCA audio cable, too. Check whether the output format of this unit (HDMI FORMAT) matches the supported input format of other connected device. 	Function
There is no picture.	 If you connect the cable to S-VIDEO OUT/ COMPONENT VIDEO OUT / HDMI OUT jack, connect it to AUDIO / VIDEO OUT jack instead. 	n Setup
Picture noise appears.	 Head cleaning for VCR may be necessary. Refer to "Auto head cleaning" (page 5). Adjust tracking control for better picture by pressing [CH / /] while 	VCR
V The correction takes what where here is	you are playing back a cassette tape.	Fur
 C The cassette tape does not play back. R The tape ejected after you press [REC ●]. 	 No cassette tape is inserted. Make sure the cassette tape has an erase-protection tab when you record to a cassette tape. If needed, cover the hole with cellophane tape. 	Function
The remote control does not function.	Check if a cassette tape is in this unit.	
The motor rotates even when playback / recording is stopped.	• The motor may rotate for the duration of approximately 5 minutes for efficient operation. This is not a malfunction.	Others

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TROUBLESHOOTING

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Error message	Cause	Solution
Disc Error — Please eject the disc. — Playback feature may not be available on this disc.	 Unplayable disc is inserted in the unit. The disc is upside down. 	 Insert the standardized disc which have the marks on pages 9-10. Insert the disc with the labeled side facing up.
Region Error — Please eject the disc. — Playback is not authorized in your region.	 Playback is not authorized in the region of the DVD-video which you inserted in the unit. 	Insert the DVD-video with region codes 1 or ALL.
Parental Lock On The current selected parental level prohibits playback.	 The current selected parental level prohibits playback. 	Check "Parental Lock" setting in "Playback" menu (page 99).
Recording Error This program is not allowed to be recorded.	 You are trying to record the copy prohibited program. 	 You cannot record copy prohibited programs.
Recording Error This program is not recordable in Video mode.	 You are trying to record the copy-once program onto the DVD-RW disc in Video mode. 	• Set "Format Mode" to "VR mode" (pages 38-39).
Recording Error This program is not recordable in +VR mode.	 You are trying to record the copy-once program. 	 Insert the DVD-RW disc in VR mode (ver.1.1 or 1.2 compatible with CPRM).
Recording Error Cannot record on this disc.	 You are trying to record onto the disc which is unrecordable, or the disc status is unable to record. The disc is dirty. The disc is damaged. 	 Insert the recordable disc, and ensure the disc status satisfies the recording requirements (page 9). Clean the disc with a cleaning cloth. Replace the disc.
Recording Error This program is not allowed to be recorded on this disc.	 You are trying to record the copy-once program onto the DVD-RW disc which is not compatible with CPRM. 	Insert the DVD-RW disc in VR mode (ver.1.1 or 1.2 compatible with CPRM).
Recording Error This disc is protected and not recordable.	 You are trying to record onto the protected disc which is set in "DVD Menu" menu. 	 Release the disc protect setting in "DVD Menu" menu (page 40).
Recording Error Disc is full. (No area for new recording)	You are trying to record onto the disc which has no space for recording.	 Insert the recordable disc with enough recording space.
Recording Error You cannot record more than 99 titles on one disc. (The maximum is 99)	• You are trying to record onto the DVD- RW/-R on which the number of recording titles comes up to the maximum (99).	Delete unnecessary titles (pages 81-82).
Recording Error You cannot record more than 999 chapters on one disc. (The maximum is 999)	 You are trying to record onto the VR mode DVD-RW on which the number of recording chapters comes up to the maximum (999). 	• Delete unnecessary chapter marks (page 87).
Recording Error You cannot record more than 49 titles on one disc. (The maximum is 49)	 You are trying to record onto the DVD+RW/ +R on which the number of recording titles comes up to the maximum (49). 	Delete unnecessary titles (pages 81-82).
Recording Error You cannot record more than 254 chapters on one disc. (The maximum is 254)	 You are trying to record onto the DVD+RW on which the number of recording chapters comes up to the maximum (254). 	• Delete unnecessary chapter marks (page 87).
Recording Error You cannot record on this disc as Control Information is full.	 This disc has no space to write the Control Information when recording or deleting contents. When editing has been repeatedly performed, the control Information area may come up to be full even the recording area has enough space. 	• Delete unnecessary titles (pages 81-82).
Recording Error You cannot record on this disc as Power Calibration Area is full.	 When recordings are performed repeatedly onto an unstable disc, this area may come up to be full. Every time you insert a disc for recording, the disc's working area will be taken up. And if you repeat this frequently, it will be used up sooner and you may not be able to record full 49 titles. 	• Insert a new disc.
Recording Error This disc is already finalized.	 You are trying to record onto the disc already finalized. 	 Undo the finalizing for this disc (pages 42-43).
Recording Error The disc has no recording compatibility. Set "Make Recording Compatible" to "ON" to convert the disc.	 You are trying to record onto the unfinalized +VR mode discs recorded on other unit. 	• Set "Make Recording Compatible" to "ON" to rewrite the menu, after that you will record to disc (page 45).

* If you are still having trouble with the unit after checking "TROUBLESHOOTING", write down the error code and the error description for calling our help line to locate an Authorized Service Center.

Frequently Asked Questions

Can I record to CD-RW/-R?
Can I play back DVD-video that is bought in another country?

- Can I connect the unit to my PC?
- Can I program a timer recording with cable/satellite box?

No, this unit records only DVD.

Possible when the region code of the disc is 1 and All. No, you cannot control the unit by PC. Yes, you can. Select "L1" or "L2" as your recording channel, and leave the cable/satellite box on (pages 21, 49-53).

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LANGUAGE CODE

Language	Code
Abkhazian	4748
Afar	4747
Afrikaans	4752
Albanian	6563
Amharic	4759
Arabic	4764
Armenian	5471
Assamese	4765
Aymara	4771
Azerbaijani	4772
Bashkir	4847
Basque	5167
Bengali;Bangla	4860
Bhutani	5072
Bihari	4854
Bislama	4855
Breton	4864
Bulgarian	4853
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Others

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GLOSSARY

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Analog Audio

An electrical signal that directly represents sound. Compare this to digital audio which can be an electrical signal, but is an indirect representation of sound. See also "Digital Audio".

Aspect Ratio

The width of a TV screen relative to its height. Conventional TVs are 4:3 (in other words, the TV screen is almost square); widescreen models are 16:9 (the TV screen is almost twice as wide as it is high).

Chapter

Just as a book is split up into several chapters, a title on a DVD is usually divided into chapters. See also "Title".

Component Video Output

Each signal of luminance (Y) and component (P_B/C_B, P_R/ C_R) is independent to output so that you can experience picture color as it is.

Also, due to compatibility with progressive video (480p), you can experience higher-density picture than that in interlace (480i).

Digital Audio

An indirect representation of sound by numbers. During recording, the sound is measured at discrete intervals (44,100 times a second for CD audio) by an analogto-digital converter, generating a stream of numbers. On playback, a digital-to-analog converter generates an analog signal based on these numbers. See also "Sampling Frequency" and "Analog Audio".

DivX

DivX[®] is a codec (compression/decompression) that can compress images to a very small amount of data.

Dolby[®] Digital

The system to compress digital sound developed by Dolby Laboratories. It offers you sound of stereo(2ch) or multi channel audio.

DTS® (Digital Theater System)

DTS is a multi channel surround sound system. By connecting to DTS decoder you can enjoy dynamic and realistic sound like movie theatre. DTS surround sound technologies were developed by DTS, Inc.

Finalize

To make DVD, which have been recorded on, possible to play back in DVD players.

HDMI[™] (high definition multimedia interface)

A digital interface between audio and video source. It can transmit component video, audio, and control signal with one cable connection.

JPEG (joint photographic experts group)

JPEG is a method of compressing still image files. You can copy JPEG files on CD-RW/-R from a computer and play back the files on this unit.

MP3 (MPEG audio layer 3)

MP3 is a method of compressing files. You can copy MP3 files on CD-RW/-R from the computer and play back the files on this unit.

PCM (pulse code modulation)

The most common system of encoding digital audio, found on CD and DAT. Excellent quality, but requires a lot of data compared to formats such as Dolby Digital and MPEG audio. For compatibility with digital audio recorders (CD, MD and DAT) and AV amplifiers with digital inputs, this unit can convert Dolby Digital and MPEG audio to PCM. See also "Digital Audio".

Progressive Scan (480p)

A type of display that does not split each frame into fields, and instead scans directly through all the scanlines of each frame in order. Progressive scan provides less flickering and higher image resolution than traditional (480i) TV signals. Refer to page 105 for instructions on selective progressive scan mode.

Region Code

Regions associate discs and players with particular areas of the world. This unit will only play back discs that have compatible region codes. You can find the region code of your unit by looking on the rear panel. Some discs are compatible with more than one region (or all regions).

Sampling Frequency

The rate which sound is measured by a specified interval to turn into digital audio data. The numbers of sampling in one second defines as sampling frequency. The higher the rate, the better the sound quality.

SAP (secondary audio program)

Sub-audio channel which is delivered separately from main-audio channel. This audio channel is used as an alternate in bilingual broadcasting.

S-Video Output

It delivers independently each signal of color(C) and luminance(Y) to TV as video signals, so that higher-quality picture will be gained.

Title (DVD only)

A collection of chapters on DVD. See also "Chapter".

Track

Audio CD use tracks to divide up the content of a disc. The DVD equivalent is called a chapter. See also "Chapter".

Video mode

Video mode is the same recording format as used on the DVD videos you purchase in local shops. You can play back the discs recorded in this format in most DVD players, however it offers only limited editing. You will need to finalize discs recorded in video mode before playing them back on other unit.

VR mode

A basic recording format for DVD-RW. VR mode offers advanced editing, however it is playable only on VR mode compatible unit. Finalization is recommended before playing them back on other unit.

WMA (Windows Media™ Audio)

WMA is the audio compressing technology developed by Microsoft. You can copy WMA files on CD-RW/-R from a computer and play them back on this unit.

+VR mode

A recording format for DVD+RW/+R. +VR mode offers basic editing, and it is playable on most DVD players. Finalization is recommended before playing them back on other unit.

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SPECIFICATIONS

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- This model complies with the below 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.

	tares and/or specifications that may be added in the future.	D
General		
System	DVD-RW/-R, DVD+RW/+R, DVD-video, CD-DA, CD-RW/-R, VHS cassette tape	Connections
VCR video heads	Four heads	Ine
Power requirements	AC120 V, 60 Hz	icti.
Power consumption	30 W (standby: 3.3 W)	On
Weight	9.5 lbs (4.3 kg)	N
Dimensions (width x height x depth)	17.2" x 4.0" x 10.6" (435 x 99.5 x 268 mm)	
Operating temperature	41 °F to 104 °F (5 °C to 40 °C)	
Operating humidity	Less than 80% (no condensation)	Basic
TV format	ATSC / NTSC-M TV standard	
		etup
Recording		q
Recording format	VR (video recording) format Video format +VR format	2
Recording discs	DVD-Rewritable/-Recordable, DVD+Rewritable/+Recordable	lan
Video recording format		Di
Sampling frequency	13.5 MHz	Management
Compression format	MPEG	hen
Audio recording format		
Sampling frequency	48 kHz	
Compression format	Dolby Digital/LPCM (XP Recording mode only)	7
Input / Output		Recording
VHF/UHF antenna input/output terminal	VHF/UHF set 75Ω	ord
Video input	Input 1 (rear), 2 (front)	ing
Input level Jacks	1 Vp-p (75Ω) RCA jack	
Video output	Output 1 (rear)	♥
Output level	1 Vp-p (75Ω)	-
Jack	RCA jack	lay
S-video input	Input 1 (rear)	Playback
Y (luminance) - Input level C (color) - Input level	1 Vp-p (75Ω) 286 mVp-p (75Ω)	C.
Jacks	4 pin mini DIN	
S-video output	Output 1 (rear)	
Y (luminance) - Output level	1 Vp-p (75Ω)	
C (color) - Output level	286 mVp-p (75Ω)	D
Jack	4 pin mini DIN	Editing
Component video output	Output 1 (rear) V_{1} 1 0 V_{2} = r_{1} (750) P_{2} (C2 P2 (C2 0 7 V/2 = r_{1} (750)	ng
Output level Jacks	Y: 1.0 Vp-p (75Ω), Pb/Cb, Pr/Cr: 0.7 Vp-p (75Ω) RCA jacks	
HDMI output		
Jack	HDMI jack	E
Audio input	Input 1 (rear), 2 (front) L/R	Inc
During audio input	$2 \text{ V} \text{ rms}$ (input impedance: more than 22 k Ω)	Function Setup
Jacks	RCA jacks	su
Audio output	Output 1 L/R (rear)	ett
During audio output Jacks	2 V rms (output impedance: less than 1 k Ω) RCA jacks	dr
Digital audio output	Output 1 (rear) COAXIAL	
Output level	$500 \text{ mVp-p} (75\Omega)$	VCR
Jack	RCA jack	RP
DV input	IEEE 1394	Function
Jack	DV input jack (4 pin)	5

Introduction

LIMITED WARRANTY

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Limited United States Warranty

Digital Audio Video ("DAV") Product - Exchange Warranty

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

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

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

Limited Warranty

TACP warrants this DAV Product and its parts against defects in materials or workmanship for a period of ninety (90) days after the date of original retail purchase.

DURING THIS PERIOD, TACP WILL EXCHANGE A DEFECTIVE DAV PRODUCT WITH A NEW OR REFURBISHED DAV PRODUCT WITHOUT CHARGE TO YOU. DURING THE PERIOD THAT COMMENCES ON THE DATE THAT IS NINETY ONE (91) DAYS AFTER THE DATE OF ORIGINAL RETAIL PURCHASE AND ENDS ON THE DATE THAT IS THREE HUNDRED SIXTY FIVE (365) DAYS AFTER THE DATE OF ORIGINAL RETAIL PURCHASE, TACP WILL EXCHANGE A DEFECTIVE DAV PRODUCT WITH A NEW OR REFURBISHED DAV PRODUCT FOR A FEE.

Rental Units

The warranty for DAV Product rental units begins on the date of the first rental or thirty (30) days after the date of shipment to the rental firm, whichever comes first.

Commercial Units

DAV Products sold and used for commercial purposes have a limited warranty for all parts and labor, which warranty begins on the date of original retail purchase and ends on the date that is ninety (90) days thereafter.

Owner's Manual and Product Registration Card

Read this owner's manual thoroughly before operating this DAV Product.

Complete and mail the enclosed product registration card or register your DAV Product on-line at <u>www.tacp.toshiba.com/service</u> as soon as possible. By registering your DAV Product you will enable TACP to bring you new products specifically designed to meet your needs and help us to contact you in the unlikely event a safety notification is required under the U.S. Consumer Product Safety Act. Failure to complete and return the product registration card does not diminish your warranty rights.

Your Responsibility

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

- (1) You must retain your bill of sale or provide other proof of purchase.
- (2) All warranty servicing of this DAV Product must be made pursuant to the TACP DAV Product Warranty Exchange Program.
- (3) The warranties from TACP are effective only if the DAV Product is purchased and operated in the Continental U.S.A. or Puerto Rico.
- (4) Labor service charges for set installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by this warranty. Reception problems caused by inadequate antenna systems are your responsibility.
- (5) Warranties extend only to defects in materials or workmanship as limited above, and do not extend to any DAV Product or parts that have been lost or discarded by you or to damage to the DAV Product or parts caused by fires, misuse, accident, Acts of God (such as lightning or fluctuations in electric power), improper installation, improper maintenance, or use in violation of instructions furnished by TACP; use or malfunction through simultaneous use of this DAV Product and connected equipment; or to units that have been modified or had the serial number removed, altered, defaced, or rendered illegible.

How to Obtain Warranty Services

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

- (1) For instructions on how to obtain warranty service for your DAV Product under the TACP DAV Product Warranty Exchange Program, contact TACP's Consumer Solutions Center toll free at 1-800-631-3811.
- (2) You must include the original bill of sale (or a copy of the original bill of sale) or other proof of purchase along with the entire DAV Product when sending the DAV Product to the TACP Warranty Exchange Center specified by TACP's Consumer Solutions Center. You are responsible for all inbound transportation and insurance charges for the DAV Product to the TACP Warranty Exchange Center.

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

ALL WARRANTIES IMPLIED BY THE LAW OF ANY STATE OF THE U. S.A., INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THE LIMITED WARRANTIES SET FORTH ABOVE. WITH THE EXCEPTION OF ANY WARRANTIES IMPLIED BY THE LAW OF ANY STATE OF THE U.S.A. AS HEREBY LIMITED, THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, AGREEMENTS, AND SIMILAR OBLIGATIONS OF TACP WITH RESPECT TO THE REPAIR OR REPLACEMENT OF ANY PARTS. IN NO EVENT SHALL TACP BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, BUSINESS INTERRUPTION, OR MODIFICATION OR ERASURE OF RECORDED DATA CAUSED BY USE, MISUSE OR INABILITY TO USE THIS DAV PRODUCT).

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

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE IN THE U.S.A. SOME STATES OF THE U.S.A. DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, WHEN AN ACTION MAY BE BROUGHT, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE PROVISIONS MAY NOT APPLY TO YOU UNDER SUCH CIRCUMSTANCES.

LIMITED WARRANTY

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Limited Canadian Warranty

For Toshiba Brand Digital Audio/Video Products

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 DIGITAL AUDIO/VIDEO PRODUCT (the "DAV PRODUCT(S)" or "DAV Product(s)") AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

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

DAV PRODUCTS 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

Subject to the more limited warranty if the DAV Product is used for any commercial or business purposes as set out below, TCL warrants the DAV Product and its parts against material defects in materials or workmanship that result in the DAV Product 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 DAV PRODUCT TO A TCL DAV PRODUCT AUTHORIZED SERVICE PROVIDER ("ASP"). YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE DAV PRODUCT TO AND FROM THE ASP.

Rental Units

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The warranty for DAV Product 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 DAV Products 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 DAV Product 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 DAV PRODUCT TO AN ASP. YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE DAV PRODUCT TO AND FROM THE ASP.**

Your Responsibility

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

- You must provide your bill of sale or other proof of purchase.
 All warranty servicing of this DAV Product must be performed by an ASP.
- (3) The warranties from TCL are effective only if the DAV Product 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 DAV Product;
 - Replacement of missing, discarded or lost parts, the provision of retrofits, or preventive maintenance;

- Repair of damage that is cosmetic only or does not affect the DAV Product 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);
- 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 DAV Product and connected equipment;
- 9. Modifications to the DAV Product not approved in writing by TCL, and service made necessary by the use or installation of non-Toshiba modifications to the DAV Product:
- Service of a DAV Product 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 DAV Product;
- Damage to the DAV Product 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 DAV PRODUCT, 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, STATUTORY OR OTHERWISE, 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 ASPs AND WHETHER MADE ORALLY OR IN WRITING (INCLUDING ANY STATEMENT IN ANY BROCHURE, PRESS RELEASE, ANNOUNCEMENT, ADVERTISEMENT, POINT OF SALE DISPLAY, ETC.).

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 DAV PRODUCT 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 DAV PRODUCT IS OPENED, SERVICED, OR REPAIRED BY PERSONS OTHER THAN THOSE AUTHORIZED BY TCL TO SERVICE OR REPAIR THE DAV PRODUCT.

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LIMITED WARRANTY

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IF THE DAV PRODUCT 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 ASPS (THE " **RELATED PARTIES**") BE LIABLE TO YOU OR ANY THIRD PARTY FOR ANY DAMAGES, MONEY, REIMBURSEMENT, <u>COSTS OR EXPENSES</u>. 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 DAV PRODUCT, 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 DAV Product; (iii) any oral or written representations, statements, brochures, press releases, advertising, announcement, point of sale display, or promotional material relating to the DAV Product; (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

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The DAV Product 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 DAV Product failure could lead to injury to persons or loss of life or catastrophic property damage.

IF THE CUSTOMER USES THE DAV PRODUCT IN ANY CRITICAL APPLICATION, THE CUSTOMER – AND NOT TCL, ITS AFFILIATES, ADRS OR ASPS – ASSUME SOLE AND FULL RESPONSIBILITY FOR SUCH USE. TCL RESERVES THE RIGHT TO REFUSE TO SERVICE ANY DAV PRODUCT USED IN A CRITICAL APPLICATION. TCL, ITS AFFILIATES, ADRS AND ASPS HEREBY DISCLAIM ANY AND ALL LIABILITY, DAMAGES AND CONSEQUENCES ARISING OUT OF THE SERVICE OR REFUSAL TO SERVICE SUCH DAV PRODUCT AND FURTHER DISCLAIM ANY AND ALL LIABILITY, CONSEQUENCES AND DAMAGES THAT MAY ARISE OR RESULT FROM THE USE OF THE DAV PRODUCT 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 DAV Product or in any other document enclosed with, or used in the context of the promotion or sale of, the DAV Product, 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 ASP, visit TCL's web site at
- www.toshiba.ca, or call toll free 1-800-268-3404.
 Present your bill of sale or other proof of purchase to the ASP.

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

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