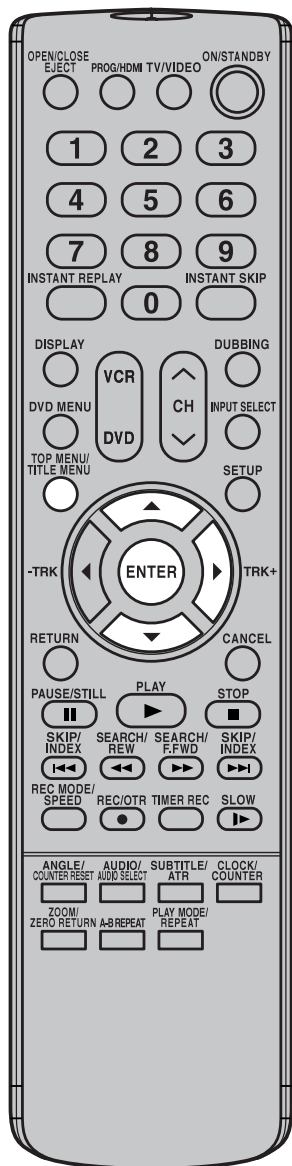


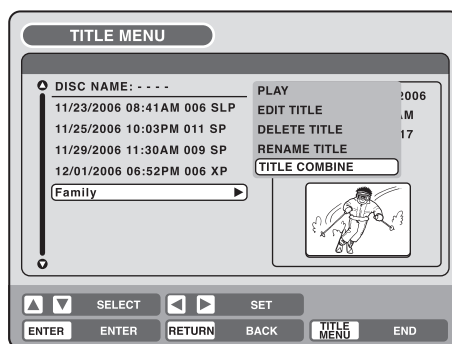
Editing a playlist



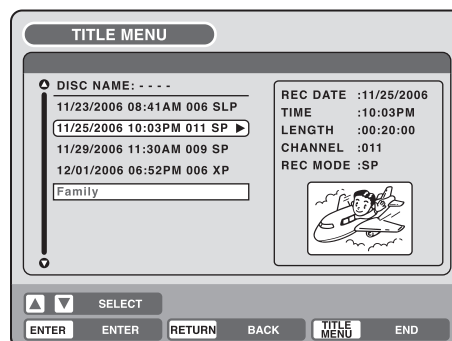
Combining the title

You can create a playlist by combining the several original titles or playlists. To combine the titles, it is necessary to create a playlist at first. By combining the titles in the playlist, a playlist where several titles are combined is created.

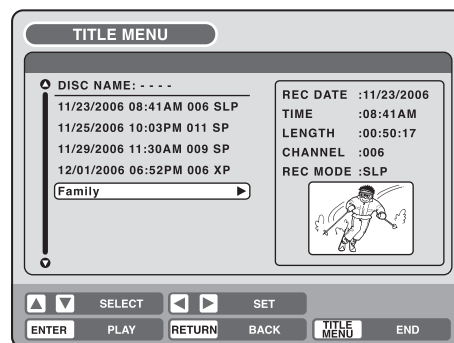
- 1 Press **TITLE MENU** to display the title menu.
- 2 Select the playlist where you want to combine the titles.
 - Press ▲ or ▼ to select the playlist.
 - Press ► to display the editing menu of the playlist.
 - Press ▲ or ▼ to select "TITLE COMBINE".



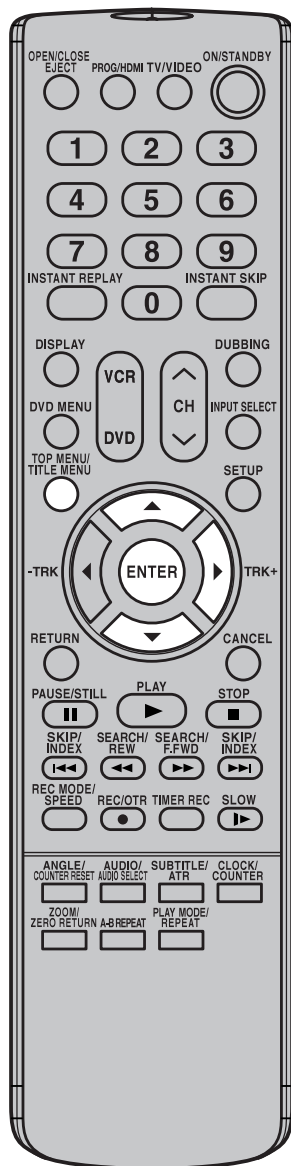
- 3 Press **ENTER**.
Select the title that you want to combine from the title menu.



- 4 Press **ENTER**.
Following the playlist, the selected title is combined. The several titles were combined so that the total recording time is displayed.



Editing a playlist

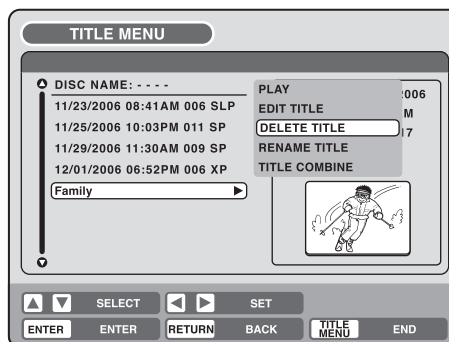


Erasing a playlist

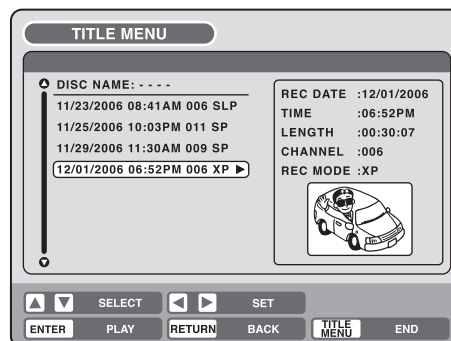


You can erase the created playlist. Even if you erase the playlist, the original title will not be erased.

- 1 Press **TITLE MENU** to display the title menu.
- 2 Select the playlist that you want to erase.
 - Press **▲** or **▼** to select the playlist.
 - Press **▶** to display the editing menu of the playlist.
 - Press **▲** or **▼** to select "DELETE TITLE".



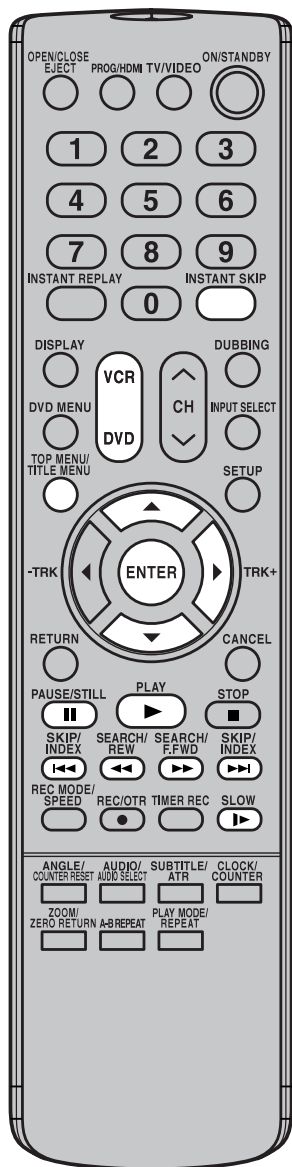
- 3 Press **ENTER**.
The selected playlist will be erased.



Editing the disc

Editing an original title

In VR mode, you can edit various items, whereas in Video mode, you can only edit the title names.



Preparation:

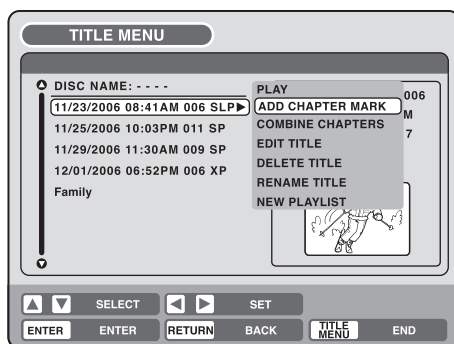
- Turn ON the TV and set to the video input mode.
- Load the recorded disc.
- Press **DVD** to select the DVD mode. (The DVD indicator will light.)

Adding a chapter mark

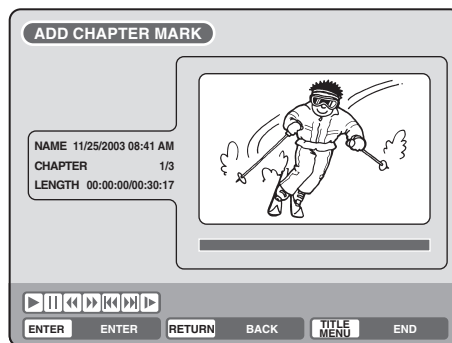


You can add a chapter mark to the original title. You can add up to 999 chapter marks to one disc.

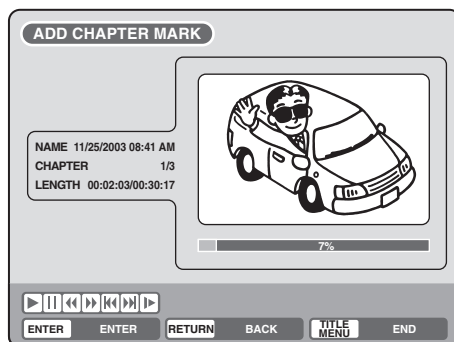
- 1 Press **TITLE MENU** to display the title menu.
- 2 Select the original title where a chapter mark is added.
 - Press **▲** or **▼** to select the original title.
 - Press **▶** to display the editing menu of the original title.
 - Press **▲** or **▼** to select "ADD CHAPTER MARK".



- 3 Press **ENTER**.
The ADD CHAPTER MARK screen will appear.



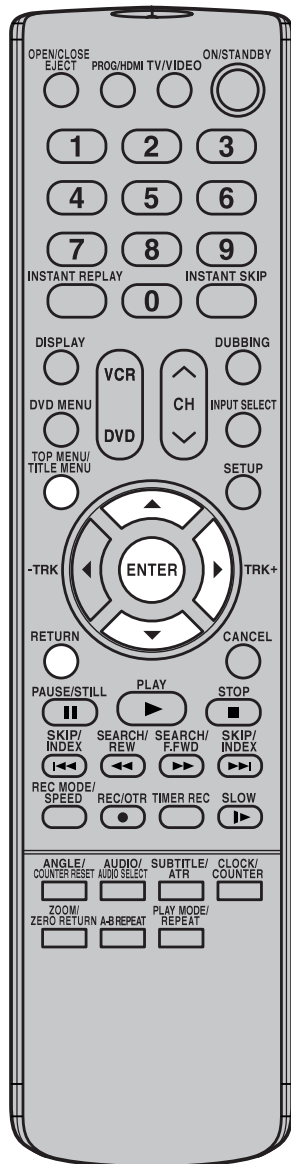
- 4 Press **PLAY** to search a scene where you want to add the chapter mark.
 - Search the scene by using each operation button (**F.FWD**, **REW**, **SKIP▶▶**, **SKI▶▶**, **PAUSE/STILL**, **SLOW**, **INSTANT SKIP**) for the playback.



NOTES:

- You can automatically add a chapter mark in recording. For more information, see page 32.
- In case the disc includes more than 9 titles, you can turn to the next or the previous page. (See page 35.)

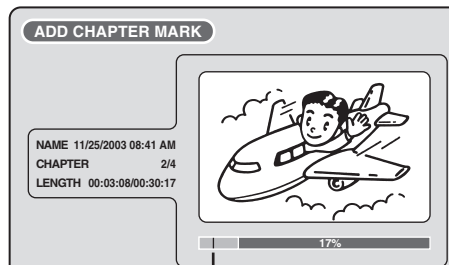
Editing an original title



NOTE:

Chapter marks that have been added automatically in the erasing of a scene procedure (page 73) cannot be erased.

- 5 When the scene you want to add a chapter mark, press **ENTER**. The playback is paused and the position of the added chapter mark appears green.



The added chapter mark

- 6 If you want to continue to add chapter mark, repeat step 5.
- 7 Adding chapter marks is finished.
 - To display the title menu, press **RETURN**.
 - To return to the normal screen, press **TITLE MENU**.

Combining chapters



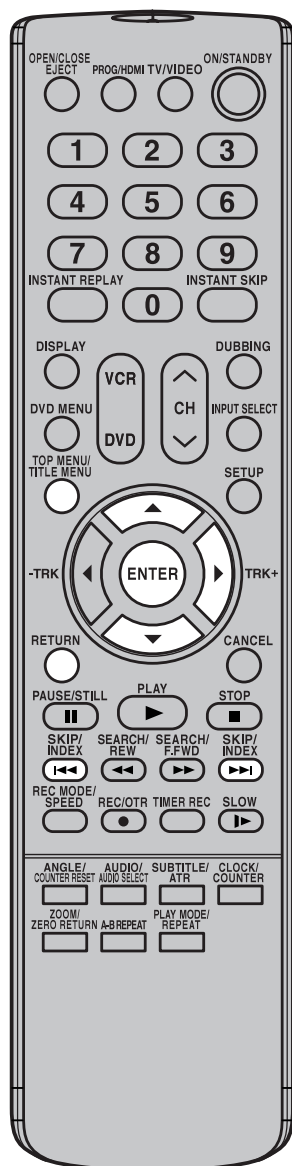
By erasing the added chapter marks, the chapters can be combined.

- 1 Press **TITLE MENU** to display the title menu.
- 2 Select the original titles where you want to combine the chapters.
 - Press **▲** or **▼** to select the original title.
 - Press **▶** to display the editing menu of original title.
 - Press **▲** or **▼** to select "COMBINE CHAPTERS".



- 3 Press **ENTER**. The COMBINE CHAPTERS screen will appear. At the beginning, the top still image in the chapter 2 is displayed.

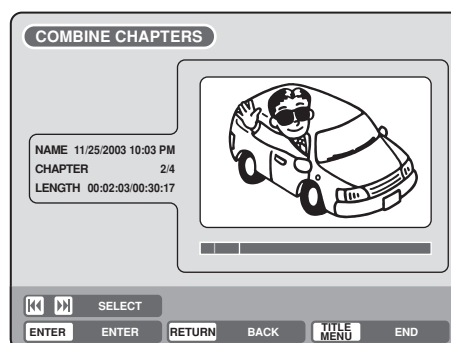
Editing an original title



NOTE:

The title name can be a maximum of 64 characters in VR mode and a maximum of 30 characters in Video mode.

Long names will be shortened in the title menu.

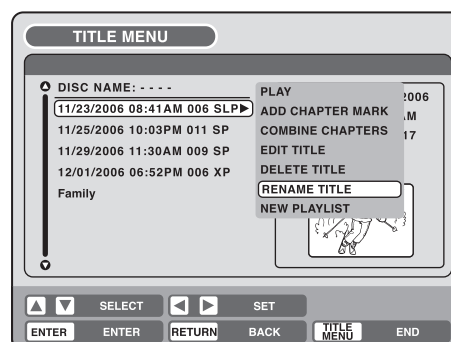


- 4 Press **SKIP▶▶** or **SKIP◀◀** to select the chapter marks to be erased.
- 5 Press **ENTER**.
The chapter marks are erased and 2 chapters are combined into 1 chapter.
- 6 To continue erasing the chapter marks, repeat steps 4 and 5.
- 7 The combining chapters will completed.
 - To display the title menu, press **RETURN**.
 - To return to the normal screen, press **TITLE MENU**.

Changing an original title name

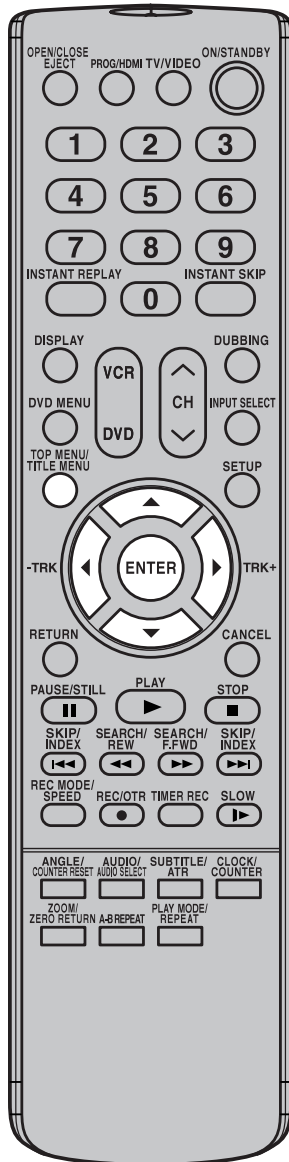


- 1 Press **TITLE MENU** to display the title menu.
- 2 Select the original title that you want to rename.
 - Press **▲** or **▼** to select the original title.
 - Press **▶** to display the editing menu of original title.
 - Press **▲** or **▼** to select "RENAME TITLE".



- 3 Press **ENTER**.
The keyboard screen will appear.
The entering method of the title name is the same as for the playlist. See the steps 4 and 5 of "Changing a title name" in "Editing a playlist" (page 65) and enter the title name.

Editing an original title



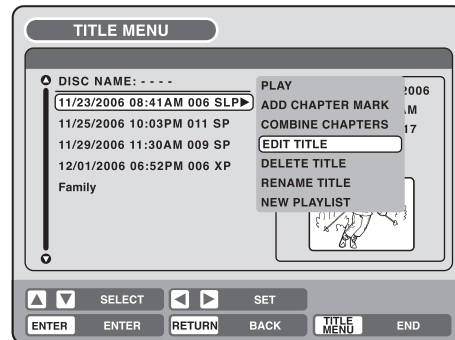
Erasing a scene (Edit title)



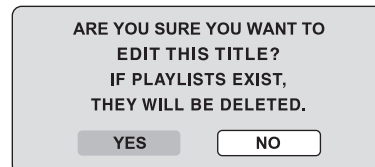
You can erase an unnecessary scene from the original title. Erase the scene after checking the title. You cannot restore the erased scene.

When you erase the scene, you can increase the disc space.

- 1 Press **TITLE MENU** to display the title menu.
- 2 Select the original title where a scene you want to erase is included.
 - Press **▲** or **▼** to select the original title.
 - Press **▶** to display the editing menu of original title.
 - Press **▲** or **▼** to select "EDIT TITLE".



- 3 By pressing **ENTER**, the following message screen will appear.



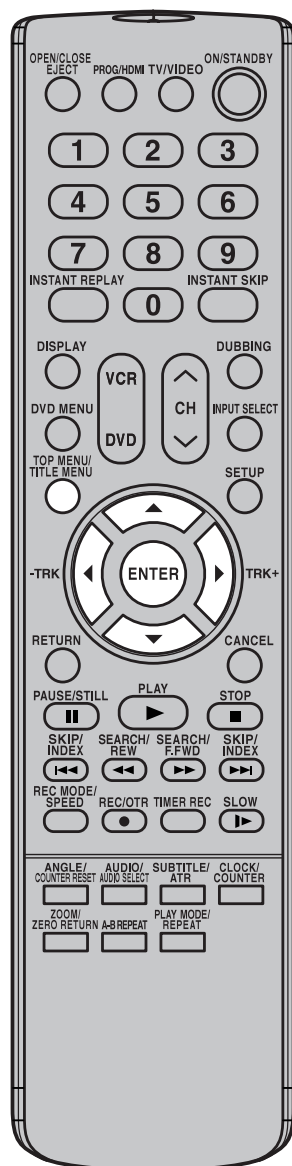
- 4 Press **◀** or **▶** to select "YES" and press **ENTER**, then the EDIT TITLE screen will appear.
 - By selecting "NO", the title menu appears.
- 5 The method for erasing a scene is the same as for the playlist. See the steps 4 to 9 of "Erasing scenes (Edit title)" in "Editing a playlist" (page 66).

NOTES:

- If the scene is erased from the original title, the created playlist is erased.
- Disc space will only be freed up if scenes lasting several minutes are deleted.
- A chapter mark is automatically added at the location of the erased scene.

Editing the disc

Editing an original title

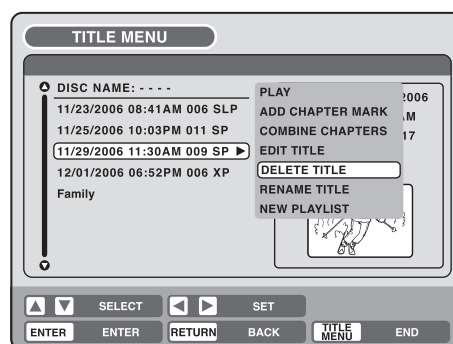


Erasing an original title

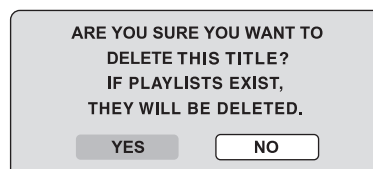


You can erase an original title. Erasing the title deletes both the title and the recording saved under that title name. Erase the original title after checking its title. The erased title cannot be restored. When you erase the title, you can increase the disc space.

- 1 Press **TITLE MENU** to display the title menu.
- 2 Select the original title you want to erase.
 - Press ▲ or ▼ to select the original title.
 - Press ► to display the editing menu of original title.
 - Press ▲ or ▼ to select "DELETE TITLE".



- 3 By pressing **ENTER**, the following message screen will appear.



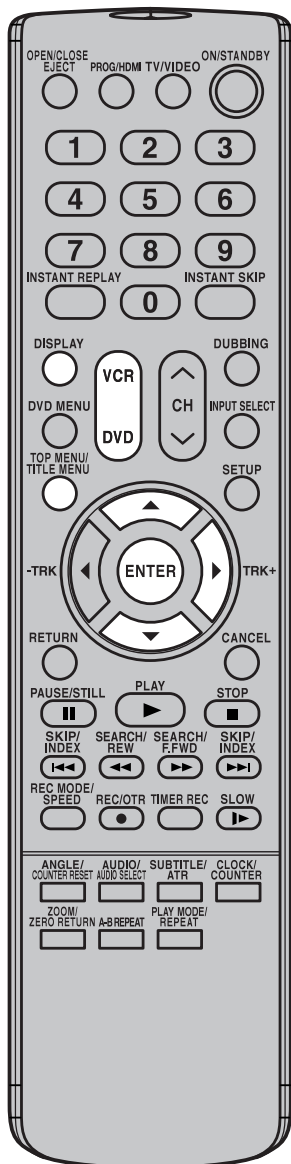
- 4 Press ◀ or ▶ to select "YES" and press **ENTER**, then the original title will be erased.
 - Erasing the title will be canceled by selecting "NO".

NOTE:

If the original title is erased the created playlist is also erased.

Changing a disc name

You can change a disc name from the title menu.



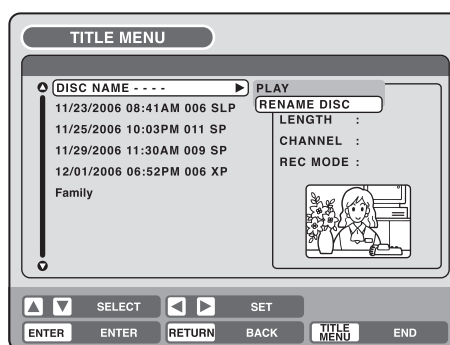
Preparation:

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

Changing a disc name

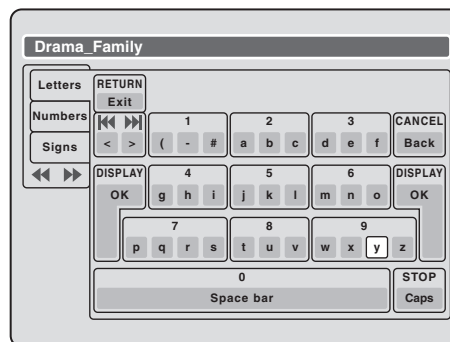


- 1 Press **TITLE MENU** to display the title menu.
- 2 • Press **▲** or **▼** to select "DISC NAME".
• Press **▶** to display the editing menu.
• Press **▲** or **▼** to select "RENAME DISC".

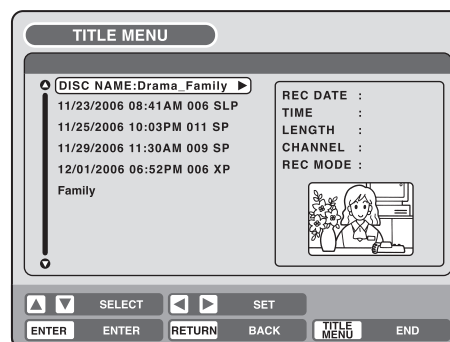


- 3 Press **ENTER**.
The keyboard screen will appear.

- 4 Use the keyboard screen to enter the disc name.



- 5 Press **DISPLAY** to return the title menu.



NOTES:

- The disc name can be a maximum of 30 characters. Long names will be shortened in the title menu.
- For using the keyboard screen, see "Using the keyboard screen" (page 76).
- A DVD-R disc cannot be named after it is finalized.

Editing the disc

Changing a disc name

Using the keyboard screen

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

Keyboard screen types

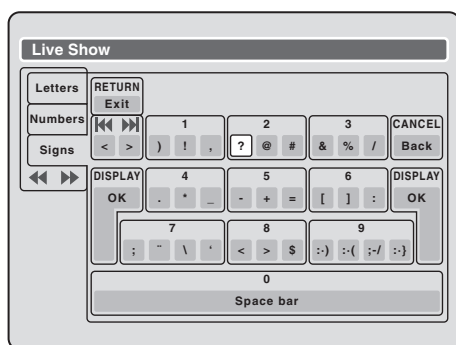
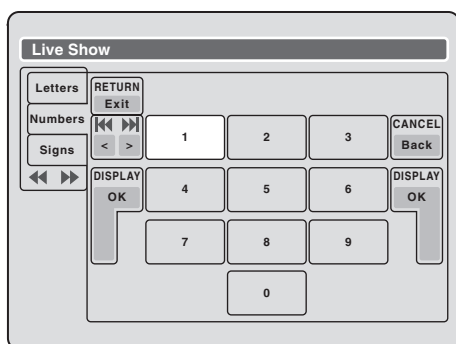
The keyboard screen has three types of "Letters", "Numbers" and "Signs". The type can be switched over by pressing **REW** or **F.FWD**.

Letters: This is mainly used for inputting alphabetical letters.

For the keyboard screen of Letters, see the previous page.

Numbers: This is used for inputting numbers.

Signs:



Inputting characters

There are two methods for inputting characters.

Character input 1

1 Press **▲**, **▼**, **◀** or **▶** to select the character to be input.

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

Character input 2

Example: Explained here is the procedure when you input "F" and "J".

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

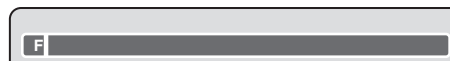
To input F, press **3** three times.



NOTE:

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

2 Stop the key operation when you select the character to be input.
The selected character will automatically be input.



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



4 When the character to be input is selected, stop the key operation.
The selected character is automatically input.





Changing a disc name

Erasing a character

You can erase the input character.

Erasing method 1

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

Erasing method 2

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

Erasing method 3

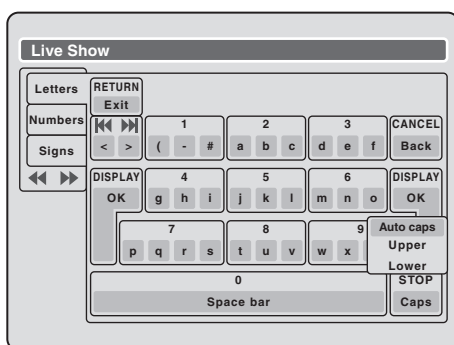
Use the cursor to select the character and erase it.

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

Selecting between uppercase and lowercase letters

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

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



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

Auto caps: Determines uppercase and lowercase automatically.

Upper: Inputs all with uppercase letters.

Lower: Inputs all with lowercase letters.

Determining a name

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

The keyboard screen disappears and the display will return to the title menu.

The entered disc name and title name are displayed in the title menu.

Cancelling character input function

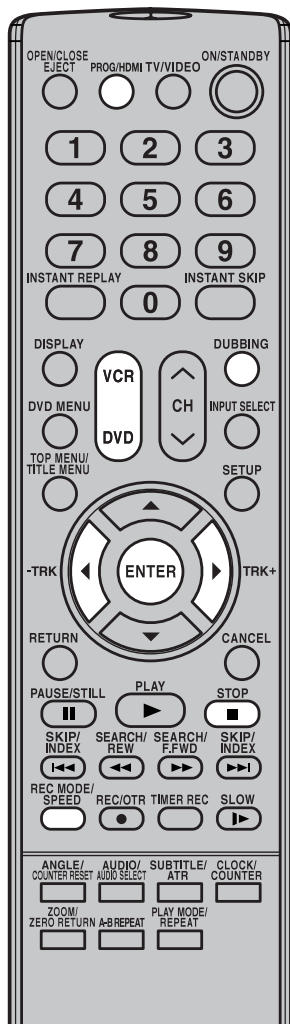
When you want to cancel the input and changed characters function, press **RETURN**. Or, press **▲**, **▼**, **◀** or **▶** to select "Exit", then press **ENTER**.

The input and changed characters function are canceled and the title menu will appear.

Dubbing a tape onto a disc



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



NOTES:

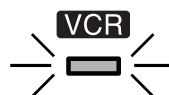
- Dubbing cannot be accomplished when
 - a copy protected tape is used.
 - disc protection is set.
 - disc has no recording space.
 - HDMI mode is active.
- Dubbing stops when
 - the video tape is played back to the end and stops.
 - recording space becomes full.
- The videos recorded from TV programs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

Preparation:

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

- Press **DVD** to set this unit to DVD mode.
The DVD indicator will light.
- Press **REC MODE/SPEED** and select the recording mode.
 - When **REC MODE/SPEED** is pressed each time, "SP", "LP", "SLP" or "XP" is selected in this order.
 - The recording mode is indicated on both the TV screen and the display window.
 - For the details of the recording mode, see page 55.

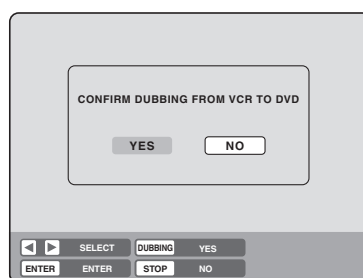
- Press **VCR** and set the unit to VCR mode.



NOTE:

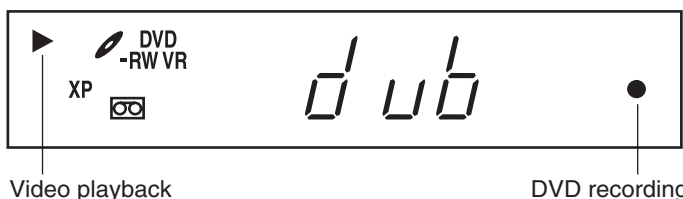
Confirm that the VCR indicator lights.

- Press **DUBBING**.
 - The unit is changed to DVD mode automatically.
 - The VCR is waiting for playback and the DVD is waiting for recording. Then the following message will appear.
- Press **DUBBING**, or press ◀ or ▶ to select "YES" and press **ENTER**.
Dubbing starts.
 - To cancel dubbing, press **STOP**, or select "NO" and press **ENTER**.



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

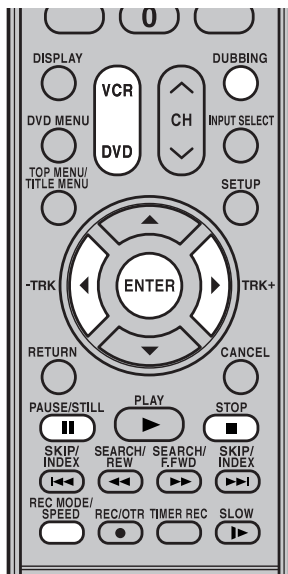
- To stop dubbing, press **STOP**.



Dubbing a disc onto a tape



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



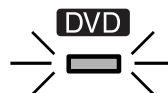
NOTES:

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

Preparation:

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

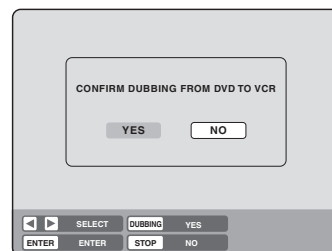
- Press **VCR** to set this unit to VCR mode. The VCR indicator will light.
- Press **REC MODE/SPEED** and select the recording mode.
 - When **REC MODE/SPEED** is pressed each time, "SP" or "SLP" is selected.
 - The recording mode is indicated on both the TV screen and the display window.
 - For the details of the recording mode, see page 49.
- Press **DVD** and set the unit to DVD mode.



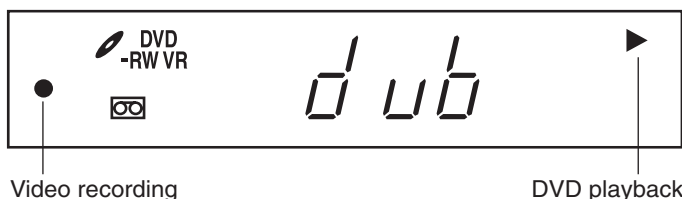
NOTE:

Confirm that the DVD indicator lights.

- Press **DUBBING**.
 - The DVD is waiting for playback and the VCR is waiting for recording. Then the following message appears.
- Press **DUBBING**, or press ◀ or ▶ to select "YES" and press **ENTER**. Dubbing starts.
 - To cancel dubbing, press **STOP**, or select "NO" and press **ENTER**.



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



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

Dubbing only the specified titles or the playlist

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



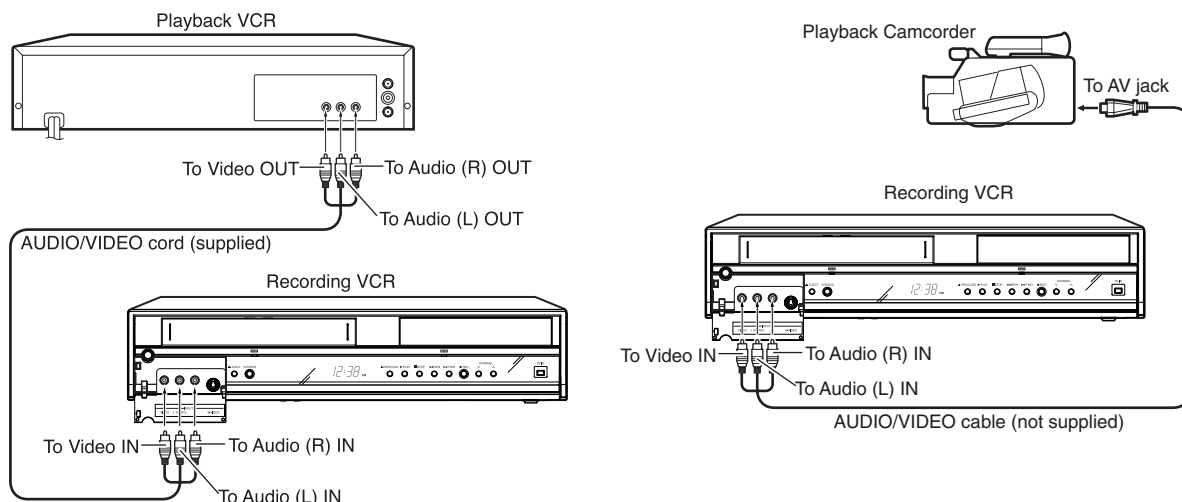
Dubbing

Dubbing using other equipment



You can connect another VCR or camcorder to dubbing.

Typical connection: When using this unit as a recording device



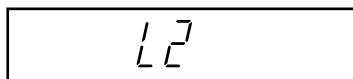
You can also connect to the audio/video input jack (L1) at the rear side of this unit. In addition, each S-Video input jack at the front and rear sides can be used for recording on the disc. (The S-Video input jack cannot be used for recording on the video tape.)

When a video is recorded using this unit

Preparation:

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

- 1 Press **INPUT SELECT** and set the channel to L2 (or L1).
 L1 (LINE 1): on the rear panel
 L2 (LINE 2): on the front panel
 Confirm that L2 (or L1) appears on the display window.



- 2 Press **REC MODE/SPEED** and select the recording mode.
 VCR: SP or SLP (See page 49)
 DVD: SP, LP, SLP or XP (See page 53)
- 3 Press **REC/OTR** on this unit, then press **PAUSE/STILL**.
- 4 Press the **PLAY** button on the playback device, then press the **PAUSE/STILL** button.
- 5 Release the recording pause and the playback still simultaneously to begin the duplicating process.
- 6 To stop dubbing, press **STOP**.

NOTES:

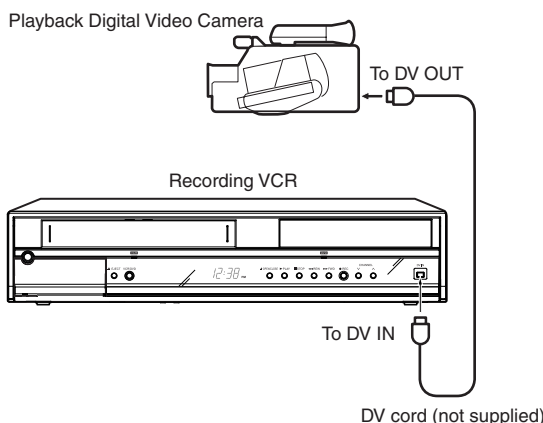
- If using a monaural VCR or other equipment, connect Audio (L) IN jack to Audio OUT using only one audio cable.
- When this unit is used as a playback device, a mark or a character displayed on the screen is also dubbed as an image. When the screen display is set to OFF, see "DISPLAY" on page 29.
- If no special permission is obtained from the copyright owner, videos recorded from TV programs or movies can only be used for your own personal enjoyment.
- You may not dub a copy protected video or DVD disc.



Dubbing using other equipment



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



NOTES:

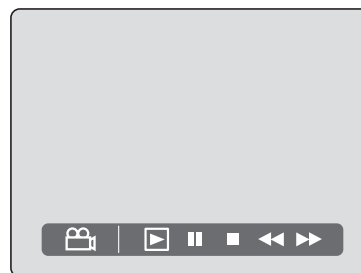
- The DV terminal of this recorder supports only input from a DV format digital video camera. It cannot output to a connected device. Some models of DV format digital video cameras may be not compatible.
- DV recording does not start in the following cases:
 - While recording or in the Chase playback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

Preparation:

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

- 1 Press **DVD** to set this unit to DVD mode. The DVD indicator will light.
- 2 Press **INPUT SELECT** and set the channel to DV. DV control menu appears on screen.
 - To clear the DV control menu, press **DISPLAY** repeatedly.

▶ : PLAY
 ■ : STOP
 II : PAUSE
 ►► : F.FWD
 ◀◀ : REW



- 3 Press ◀ or ▶ to select "▶", then press **ENTER**. The digital video camera starts playback. To stop the playback at a desired scene, press ◀ or ▶ to select "■" then press **ENTER**
- 4 Press **DUBBING**. The digital video camera starts playback and this unit starts recording.
- 5 To stop dubbing, press **STOP**. If the playback finished, the recording stops automatically.

Dubbing

Glossary

A-B Repeat Playback

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

angle

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

auto chapter

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

auto clock

Feature that automatically sets the internal clock.

blue background

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

BROWSER screen

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

CABLE

Cable television.

chapter

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

Chase playback

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

copy guard

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

Dolby Digital

Dolby® Digital Recording enables consumers to record high-quality video with stereo sound on recordable DVD discs. The technology, when utilized instead of PCM recording, also saves recordable disc space, allowing for higher video resolution or extended recording time on each DVD. DVDs created using Dolby Digital Recording will play back on all DVD-Video players. *Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.*

DTS

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

DVD menu

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

finalize

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

Instant replay

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

Instant Skip

When pressed during playback, playback jumps 30 sec ahead and resumes.

interlaced scanning

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

letter box

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

MP3

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

original title

The file created by recording something is called an "original title".

OTR

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

pan scan

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

parental control

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



Glossary

parental control settings

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

PBS

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

playlist

User-created titles based on each original title.

Progressive scan

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

region number

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

SETUP MENU

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

slide show

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

subtitle language

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

title

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

title menu

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

top menu

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

track

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

TRACK INFO screen

The screen that appears when TITLE MENU is pressed, if an Audio CD or Video CD disc is in the unit.

Video mode

This recording format is compatible with commercially available DVD players.

virtual surround

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

VR mode

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

Language code list

Enter the appropriate code number for the initial settings “DVD MENU”, “AUDIO” and/or “SUBTITLE” (see page 25).

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



Problems and troubleshooting

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

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

SYMPTOMS	POSSIBLE SOLUTIONS	PAGE
DVD/VCR		
DVD/VCR does not operate.	• Make sure the power cord is plugged in.	15
	• Try another AC outlet.	—
	• Power is off, check fuse or circuit breaker.	—
	• Unplug unit, then plug it back in.	15
	• Select the DVD or VCR mode before operating.	35, 50
No picture.	• Antenna connection is not correct or antenna cable is disconnected.	16~19
	• The video channel is not in the correct position or the TV is not set to the video channel 3 or 4.	23
	• Check the unit is connected correctly.	16~22
	• The video input selector of the TV is not set to VIDEO. Set to VIDEO (or equivalent).	—
	• Channel is set to the external mode.	—
No sound.	• Check the unit is connected correctly.	16~22
	• Check the input selector of the amplifier is set properly.	—
	• The unit is in the Special playback mode.	37, 51
The remote control does not function.	• Aim at the remote control at the remote sensor. • Operate within Approx. 7 meters or reduce the light in the room. • Clear the path of the beam. • The batteries are weak. Replace the batteries. • Check the batteries are inserted correctly.	15
No Cable TV reception	• Check all Cable TV connections. • Station or Cable TV system problems, try another station.	18, 19
DVD		
Display is not shown in your language.	• Select proper language in the SETUP MENU.	25
Playback doesn't start.	• No disc is inserted.	34
	• The disc may be dirty. Clean up the disc.	9
	• The unit cannot play DVD-ROMs, etc.	9
Stopping playback, search, slow-motion play, repeat play, or program play, etc. cannot be performed.	• Some discs may not do some of the functions.	—
Recording Does not work.	• Check the disc space, using the disc information.	36
	• Check the disc for protection.	29
	• Check if the video to be recorded is not "copy-guarded".	54
	• Check that the number of recorded titles is 99 or less, using the disc information.	36
	• Check the number of the total chapters for the recorded titles is 999, using the disc information.	36, 70
A Disc recorded using this recorder cannot be played back in other players.	• In a DVD-RW of Ver.1.0, recording in Video mode does not work. Check the disc type.	10
	• Check that the disc is finalized.	28
	• Some DVD players will not play even if the disc has been finalized.	11, 28
	• If the disc was recorded in VR mode, the other player must be RW compatible in order to play the disc.	11, 28

Additional information

Problems and troubleshooting / Video head cleaning

SYMPTOMS	POSSIBLE SOLUTIONS	PAGE
VCR		
TV recording does not work.	- The erase prevention tab of the video cassette is broken off. - The unit is in the external input mode.	49, 55
Timer recording does not work.	- The time is not set correctly. - The recording start/end time is not set correctly. - TIMER REC has not been pressed (⏻ is not lit).	27 59 60
Noise bars on screen.	- Tracking adjustment beyond range of automatic tracking circuit. Try Manual tracking adjustment. - Video heads are dirty. - The tape is worn or damaged.	51 86 —
OTHER		
No picture, or screen is blurred or divided into two parts.	The progressive scan mode is active though the unit is connected to a TV via the VIDEO OUT jack.	21
No 4:3 (16:9) picture	The setup does not match your TV.	30
No on-screen display	Select DISPLAY/CALL "ON".	29
Nothing appears in the display window	Check the DIMMER setting for SETUP.	29
No surround sound	The setup does not match your stereo system.	31
The unit or remote operation key is not functioning.	Turn off the unit and unplug the AC power cord for several minutes, then replug it.	—
Playback does not start when the title is selected.	Check the Parental setup.	26
Audio soundtrack and/or subtitle language is not changed when you playback a DVD.	Multilingual language is not recorded on the DVD disc.	25
No subtitles	- Some discs have no subtitles. - Subtitles are cleared. Press SUBTITLE.	25, 42
Angle cannot be changed.	Multi-angles are not recorded on the DVD disc.	—
"⏻" appears on the screen.	The function is prohibited with the unit or the disc.	—

Video head cleaning

Video head clogging

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

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

Error/Warning message list

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

Additional information

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



Additional information

Specifications

GENERAL

Power supply:	AC 120V 60Hz
Power consumption:	Operation: 29W Standby: 2.5W (if display window is off.)
Weight:	11.0 lbs (5.0 kg)
Dimensions:	Width : 16-15/16 inches (430 mm) Height : 3-5/8 inches (91.5 mm) Depth : 13-3/16 inches (335.5 mm)
Operating temperature:	41°F to 95°F (5°C to 35°C)
Operating humidity:	Less than 80% RH
Inputs/Outputs:	
Video:	In: 1Vp-p/75 ohm Out: 1Vp-p/75 ohm
Audio:	In: -8dBm/50k ohm Out: -8dBm/1k ohm
Antenna:	UHF/VHF IN/OUT: 75 ohm coaxial

VCR section

Video head:	4 Rotary Heads
Audio track:	Hi-Fi Sound - 2 Tracks / MONO Sound - 1 Track
Tuner:	181 Channel Freq. Synthesized VHF 2-13 UHF 14-69 Cable TV 14-36 (A)-(W) 37-59 (AA)-(WW) 60-85 (AAA)-(ZZZ) 86-94 (86)-(94) 95-99 (A-5)-(A-1) 100-125 (100)-(125) 01 (5A)
RF channel output:	Channel 3 or 4, Switchable
F.FWD/REW Time:	Approx. 1minute and 48 seconds (with T-120 Cassette Tape)(at+25°C)
Hi-Fi frequency response:	20Hz to 20,000Hz
Hi-Fi dynamic range:	More than 90dB

DVD section

Signal system:	NTSC
Applicable disc:	DVD (12cm, 8 cm [Self Recording/Playback only]), CD (12cm, 8cm)
Recording format:	DVD-Video Recording (VR mode) DVD-VIDEO (Video mode)
Recording discs:	DVD-RAM, DVD-RW, DVD-R
Recording time: (based on a 4.7GB disc)	XP: Approx. 60 min SP: Approx. 120 min LP: Approx. 240 min SLP: Approx. 360 min
Audio characteristics frequency response:	DVD: 4Hz - 22kHz CD: 4Hz - 20kHz 90dB
S/N Ratio:	90dB
Harmonic distortion:	Less than 1%
Wow and flutter:	Less than 0.01% Wrms
Dynamic range:	More than 90dB
Output:	Video : (RCA) 1 Vp-p/75 ohm Audio : (RCA) -12 dBm/1k ohm Digital Audio : 0.5Vp-p/75 ohm
Pickup:	CD : Wavelength: 780 nm Maximum output power: 8.5 mW DVD : Wavelength: 660 nm Maximum output power: 120 mW

ACCESSORIES:

Remote control (SD-R0227) x 1
75 ohm Coaxial Cable x 1
AUDIO/VIDEO Cable x 1
Battery R03/AAA x 2

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



Limited warranty

Limited United States Warranty

Digital Audio Video ("DAV") Product - Depot Repair 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 Ninety (90) Day Warranty on Labor

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, AT TACP'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR PARTS OR LABOR.

Limited One (1) Year Warranty on Parts

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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 www.tacp.toshiba.com/service 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 by the Depot Warranty Repair Center specified by the TACP Consumer Solutions Center.
- (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.

Additional information



Limited warranty

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, contact TACP's Consumer Solution Center toll free at 1-800-631-3811.
- (2) You must include a copy or original bill of sale or other proof of purchase along with the entire DAV Product to the Depot Warranty Repair Center specified by the TACP Consumer Solutions Center. You are responsible for all inbound transportation and insurance charges for the DAV Product to the Depot Warranty Repair Center specified by the TACP Consumer Solutions Center.

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

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Memo

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