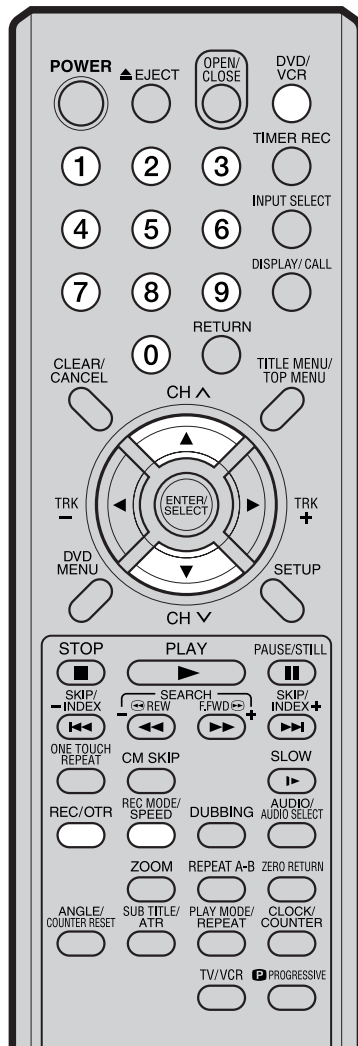


Recording a TV program



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



NOTES:

- When record on a DVD, it takes some time from when you press **REC/OTR** until recording actually starts. (With a DVD-RW it takes about 2 seconds, while with a DVD-R it takes about 10 seconds.) Press **REC/OTR** a little before your preferred starting point. With a video tape, recording starts almost at the same time you press **REC/OTR**.
- If the erase prevention tab of video tapes is removed, the tape will eject when **REC/OTR** is pressed for recording.

Preparation:

- Turn ON the TV and set it to the video input mode.
- Load a recordable DVD or video tape into the unit.
- Press DVD/VCR to select the appropriate mode.

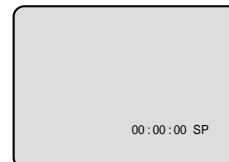
- Press **REC MODE/SPEED** and set the recording mode.

The recording mode will appear on the TV monitor and change every time **REC MODE/SPEED** is pressed.

Video recording modes: SP/SLP

DVD recording modes: XP/SP/LP/SLP

SP is the normal recording mode for video tapes. SLP offers 3 times the recording time as SP. For more information on DVD recording modes, see page 42.



- Set the TV/CATV option to the appropriate position (page78).

TV - VHF/UHF channels
CATV - CABLE TV channels

- Press the **numeric keys** or **CH ^/v** to select the channel to be recorded.

1-9 Press **0** twice and then **1-9** as required.

Example: To select 2, Press "**002**".

10-12 Press **0** first and then the remaining 2 digits in order from left to right.

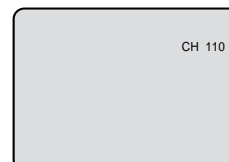
Example: Press **012** for "12".

13-99 Press 2 digits in order.

Example: Press **22** for "22".

100-125 Press the 3 digits in order.

Example: Press **110** for "110".

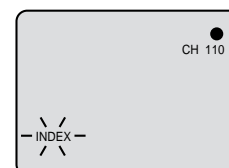


VHF/UHF/CATV CHANNELS

TV	CATV
VHF	VHF
2-13	2-13
UHF	STD/HRC/IRC
14-69	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)

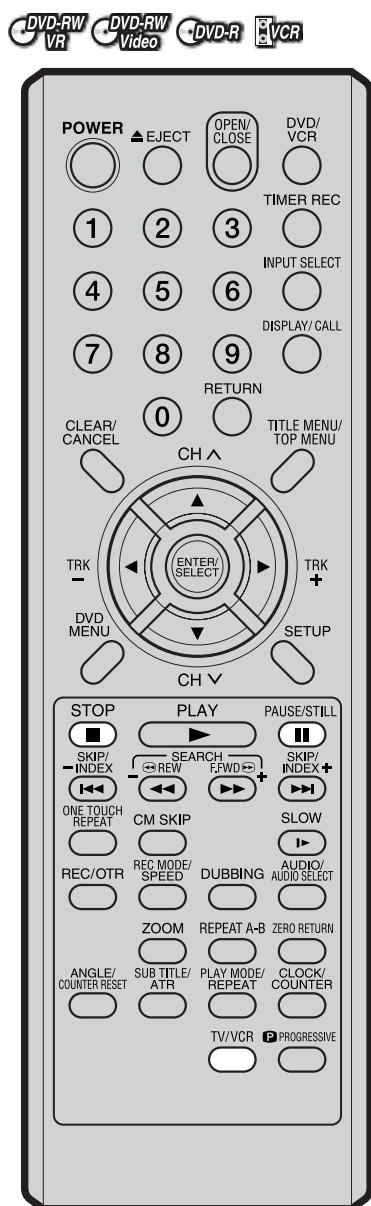
- Press **REC/OTR**.

When recording starts, "●" appears on the screen for about 4 seconds.





Recording a TV program



To stop recording

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



To stop recording temporarily

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



NOTES:

- The pause function will be released after 5 minutes to prevent damage to the tape or the VCR. The VCR will change to the STOP mode.
- You can select a recording channel in the recording pause mode.

Recording one program while watching another

While the unit is recording, press **TV/VCR** to select the TV position. The “VCR” will go off and recording will continue. Select the TV channel you want to watch by using the TV channel selector.

NOTE:

Some CATV hookups do not permit viewing one channel while recording another. See pages 18, 19.

Auto Rewind feature

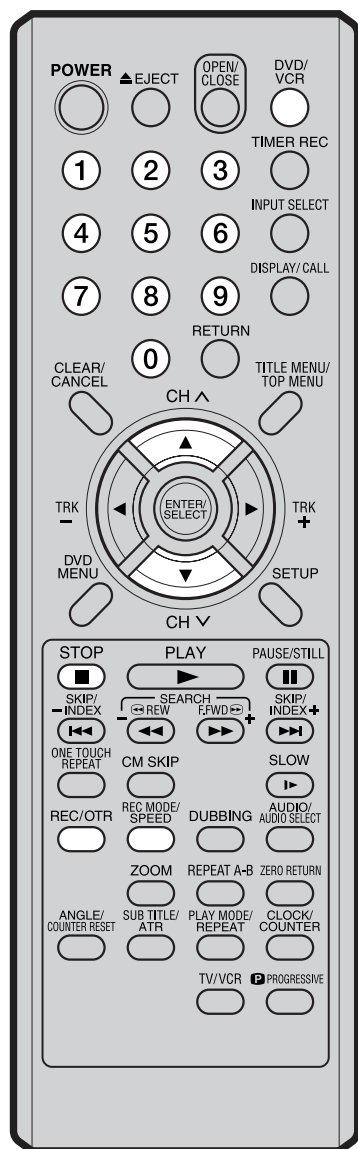
This VCR will automatically rewind the tape when the tape has ended (except during OTR and TIMER REC). It will also eject the tape.



One-touch Timer Recording (OTR)



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



NOTE:

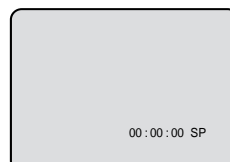
If you wish to watch the DVD playback during the OTR, press **DVD/VCR** to change to DVD mode and perform the DVD playback (see page 35).

Preparation:

- Turn ON the TV and set to the video input mode.
- Load a recordable DVD or video tape into the unit.
- Press DVD/VCR to select the appropriate mode.

Example: One-touch Timer Recording for 30 minutes.

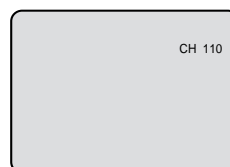
- 1 Press **REC MODE/SPEED** to select the recording mode.
For the recording mode, see the step 1 on page 44.



- 2 Set the TV/CATV option to the appropriate position (See page 78).

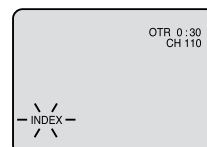
TV - VHF/UHF channels
CATV - CABLE TV channels

- 3 Press **numeric keys** or **CH ^/v** to select the channel to be recorded.



- 4 Press **REC/OTR**. Press the button again to stop recording after 30 minutes. Each additional press of **REC/OTR** will increase recording time as shown in the chart below, up to a maximum of 6 hours. The OTR and recording time will appear on the screen for about 4 seconds.

Press	Recording time	Press	Recording time
once	NORMAL REC	6 times	3:00
twice	0:30	7 times	4:00
3 times	1:00	8 times	5:00
4 times	1:30	9 times	6:00
5 times	2:00	10 times	NORMAL REC



To cancel OTR

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

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

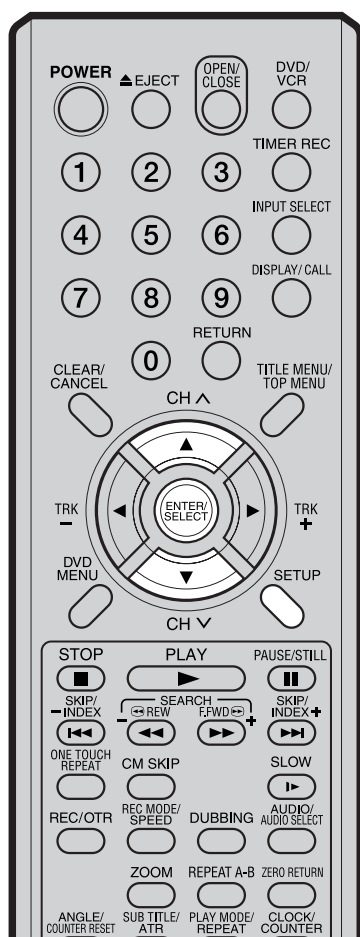





Timer recording



The timer recording system allows you to select the date, time and channel and record the desired programs. Up to 8 timer programs within a month can be stored in this unit.



NOTES:

- If a tape is unavailable or no disc space is available, the timer indicator () flashes. Replace it with an available one.
- If no disc is loaded in the recorder for 30 minutes or more, all the settings for timer recording will be erased. In such a case, adjust the clock and select the timer recording again.
- When 8 programs have already selected for timer recording, "NEW" doesn't appear on the TIMER REC SET screen.

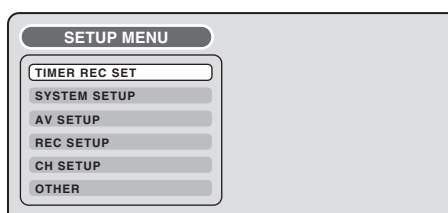
Setting timer recording

Preparation:

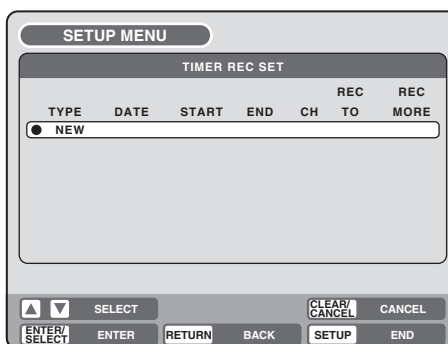
- Turn ON the TV and set to the video input mode.
- Load a recordable DVD or video tape.
- Press DVD/VCR to select the appropriate mode.
- Confirm that the clock is indicating the correct time.

Example: Set the recording mode to LP; the TV program is on channel 6 starting at 8:00 PM and stopping at 9:30 PM on a date of 20th.

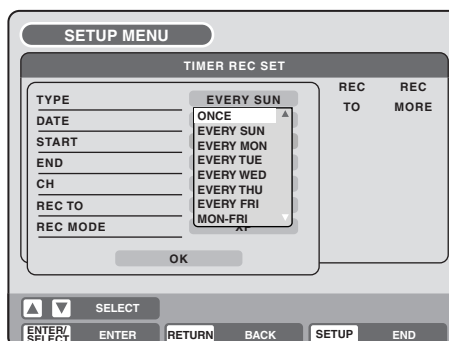
- 1 Press **SETUP**.
The SETUP MENU screen appears.



- 2 Press **▲** or **▼** to select "TIMER REC SET" and press **ENTER**.
The TIMER REC SET screen will appear.



- 3 Press **▲** or **▼** to select "NEW" and press **ENTER**.
The program screen will appear.





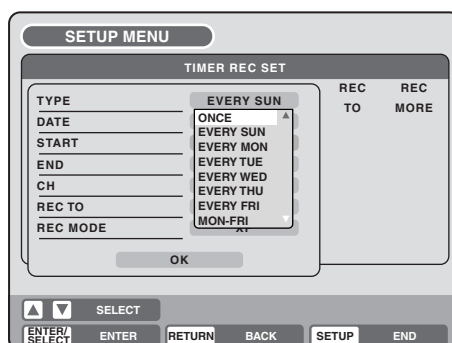
Timer recording



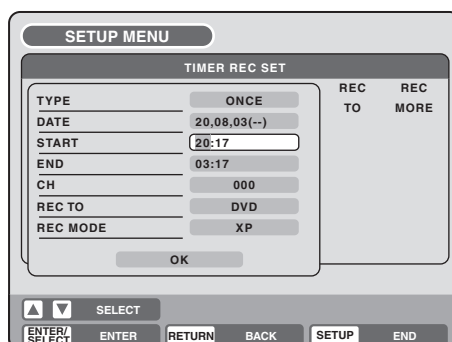
NOTES:

- If you select timer recording on a specified date only one time, select "ONCE" in the "TYPE" for recording. You can record same days of every week or from Monday to Friday using the item "TYPE". The items you can select are as follows:
ONCE: Recording on the selected "DATE"
EVERY SUN: Recording every Sun.
EVERY MON: Recording every Mon.
EVERY TUE: Recording every Tue.
EVERY WED: Recording every Wed.
EVERY THU: Recording every Thu.
EVERY FRI: Recording every Fri.
EVERY SAT: Recording every Sat.
MON-FRI: Recording from Mon. to Fri.
MON-SAT: Recording from Mon. to Sat.
SUN-SAT: Recording everyday from Mon to Sat.
- The starting and stopping times for the recording are displayed on the 12-hour (am/pm) clock. Twelve o'clock midnight is displayed as "AM 12:00", whereas twelve o'clock noon is displayed as "PM12:00".
- The initial setting of "REC TO" and "REC MODE" can be changed using "REC SETUP" (See page 77)

- 4 Press ▲ or ▼ to select "TYPE" and press **ENTER**.
Press ▲ or ▼ to select "ONCE" from the list and press **ENTER**.



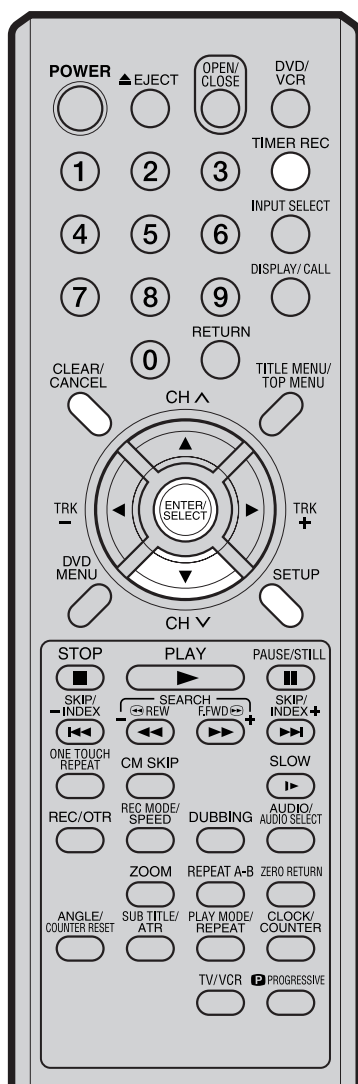
- 5 Press ▲ or ▼ to select "DATE" and press **ENTER**.
Press ▲ or ▼ to select the date to be recorded from the list and press **ENTER**.
- 6 Press ▲ or ▼ to select "START" and press **ENTER**.
Set the time when the recording is started.
- To switch over the selection item (hour or minute), press ◀ or ▶, then press **ENTER**.
 - Press ▲ or ▼ to adjust the time.
 - After setting the time, press **ENTER**.



- 7 Press ▲ or ▼ to select "END" and press **ENTER**.
Set the stopping time in the same manner for setting the starting time of timer recording.
- 8 Press ▲ or ▼ to select "CH" and press **ENTER**.
- Press ▲ or ▼ to select the channel to be recorded.
 - You can select the external input (L1 or L2) by pressing ◀ or ▶.
- 9 Press ▲ or ▼ to select "REC TO" and press **ENTER**.
Select the media (DVD or VCR) to be recorded from the list and press **ENTER**.
- 10 Press ▲ or ▼ to select "REC MODE" and press **ENTER**.
The recording modes for the media selected in "REC TO" item are listed up.
Select the recording mode and press **ENTER**.
For the recording modes in VCR, see page 38, and for the recording modes in DVD, see page 42.

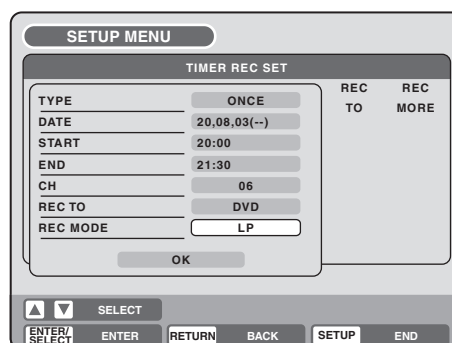


Timer recording



NOTES:

- Recording starts 5 seconds before the preset starting time.
- The total recording time for one time is max. 23 hours and 59 minutes.
- You cannot use the timer recording for the both DVD and VCR at the same time.
- When the start time for timer recording comes in using the function of REC/OTR explained in "Recording a TV program" and "One touch Timer Recording (OTR)", the recording with REC/OTR is forcedly cancelled and the timer recording starts.
- You can playback the DVD during the VCR timer recording, whereas you can playback the VCR during the DVD timer recording.



- 11 Select "OK" and press **ENTER**.
The timer program is determined and the TIMER REC SET screen appears again.
- 12 When you enter the other program for the timer recording, repeat the steps 3 to 11.
- 13 Press **SETUP**.
The TIMER REC SET screen disappears and the display will return to the normal screen.
- 14 Press **TIMER REC**. The timer indication (🕒) will appear on the display and the unit stands by for recording.

- If the program is DVD recording only, the unit will change to VCR mode automatically. (The DVD mode cannot be selected.)
- If the program is VCR recording only, the unit will change to DVD mode automatically. (The VCR mode cannot be selected.)
- If the programs are DVD and VCR recording, the unit will turn off. If you want to use the unit, press **TIMER REC** again to deactivate the timer.

Checking or changing the timer recording

When you want to check the selected timer recording, follow the steps 1 & 2 of "Setting timer recording" and display the TIMER REC SET screen. To change the timer recording, select the program to be changed and press **ENTER**. The changing method is the same as that for the recording a program for the first time.

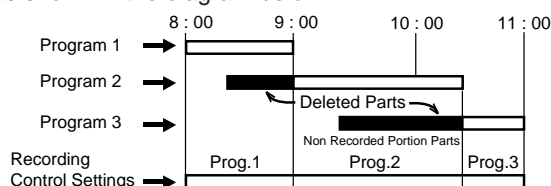
Canceling the timer recording

Display the TIMER REC SET screen.

Select the program you want to cancel and press **CLEAR/CANCEL**, then the selected program will be erased from the timer recording list.

In case Timer programs-overlap

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

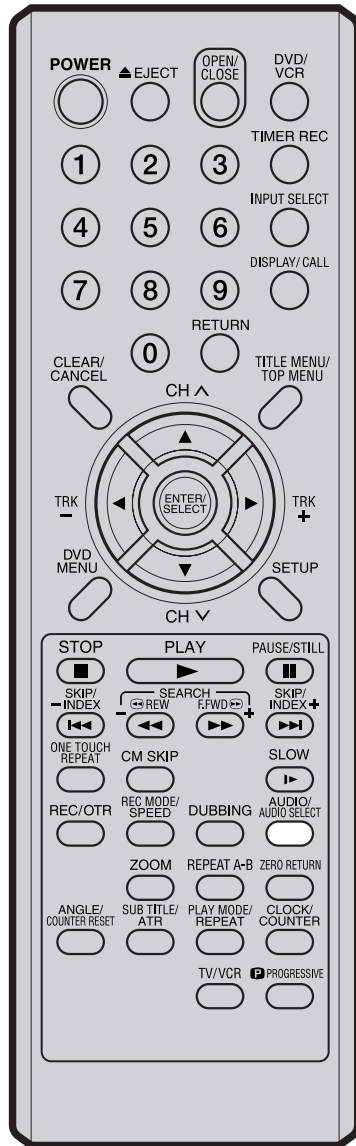




Stereo recording and playback



The VHS Hi-Fi audio system permits high fidelity recording of MTS STEREO TV broadcasts.



When a MTS STEREO broadcast is received, the word "STEREO" will appear on the screen and the program can be viewed or recorded in stereo.

The Hi-Fi STEREO recording procedure is the same as for normal recordings.

STEREO

NOTE:

When using a CATV system, stereo TV programs may be transmitted over a mono cable channel. In this case the word "STEREO" will not appear and the sound will be in mono.

Output selection

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

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

NOTES:

- When playing back a tape that is not recorded in Hi-Fi stereo mode, the audio will automatically be monaural.
- When listening to a VHS Hi-Fi video tape or MTS broadcast through the RF OUT (UHF/VHF) jack (Audio/Video cord not connected), the sound will be monaural.



Editing the disc

This section explains how to edit the recorded DVD. Editing the disc means editing the title menu. However, the items that you can edit vary with the recording formats. In VR mode, you can edit various title menus, whereas in video mode, you can edit only a few items.

Title menu

When you record a video first time on the DVD (in VR mode) where nothing is recorded, the recorded content is automatically set to Title1. Then, the second recorded content is set to Title2, and so on. Therefore, the title is numbered according to the recording order. The title number will be created max. **.

The title menu lists up these title numbers.

The title menu can be used when you play back the disc, display the menu you want to watch and play it back (see page 24), or when you check the contents recorded on the disc.

Original title

The titles explained above are called original title, which will be added every recording and can be edited later. You can do various editing operations i.e., you can name the titles, or add and erase the chapter marks. In addition, you can erase the unnecessary titles to increase the disc space.

Play list title

You can create the play list based on the original title.

You can combine the titles or erase the unnecessary scenes.

The play list is created in regardless of the original titles and the list won't affect the original title. If you erase the play list, the original titles remain. It is recommended to create and edit the play list to prevent the important titles from being erased accidentally.

If you create the play list, both the original title and play list will be displayed on the title menu.

Editable items

The items that can be edited are different between original title and play list. For the disc in video mode, only the program name can be edited and the play list cannot be created.

The items can be edited in each are as follows:

Editing items	VR mode		Video mode
	Original	Play list	Original
Playback	O	O	O
Adding chapter mark	O	X	X
Combining chapters	O	X	X
Erasing scenes	O	O	X
Erasing titles	O	O	X
Renaming title program	O	O	X
Creating play list	O	X	X
Combining titles	X	O	X

If you finalize the disc in video mode, the title list will be created and you cannot use the title menu.

NOTES:

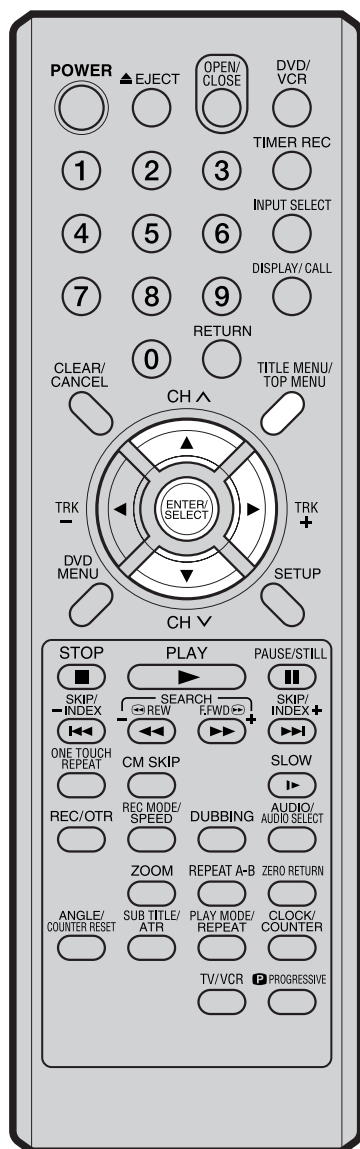
- This unit cannot record or edit the disc which was recorded or edited using the other DVD recorder and has chapter marks of *** or more.
- You cannot edit or record the disc on which disc protection is set. In such a case, be sure to cancel the disc protection (see page 74) before starting the operation.
- When a scene was erased, the selected position for erasing may be a little different from the actual erased position.
- The disc which was fully recorded using the other DVD recorder may not be edited by this unit.



Creating and editing a play list



You can create and edit the play list based on the original title.



NOTE:

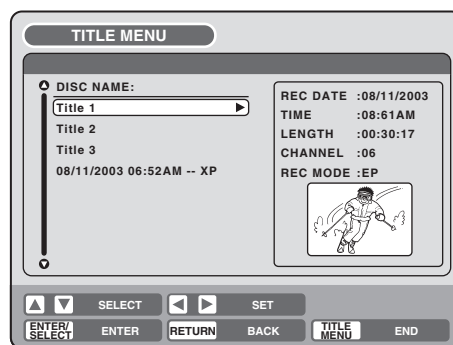
The play list can be created only in the DVD-RW (VR). The DVD-RW (Video) and the DVD-R cannot create a play list.

Preparation:

- Turn ON the TV and set to the video input mode.
- Load the recorded DVD-RW (VR).

Creating a play list

- 1 Press **TITLE MENU**.
The title menu will appear.



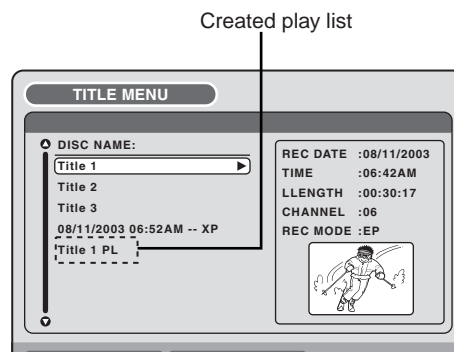
- 2 Press **▲** or **▼** to select the original title which will be used as the base of a play list.

- 3 Press **▶**.
The original title editing menu will appear.

- 4 Press **▲** or **▼** to select "NEW PLAYLIST".

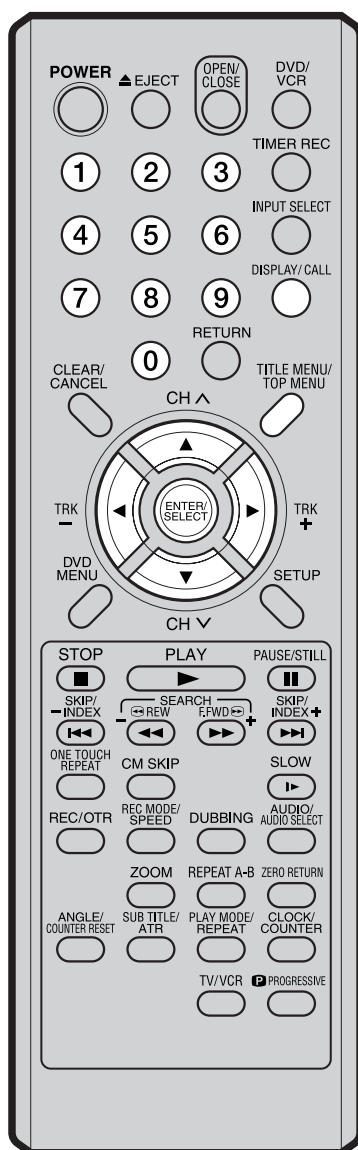


- 5 Press **ENTER**.
The editing menu closes and the created play list appears at the bottom of the original title.



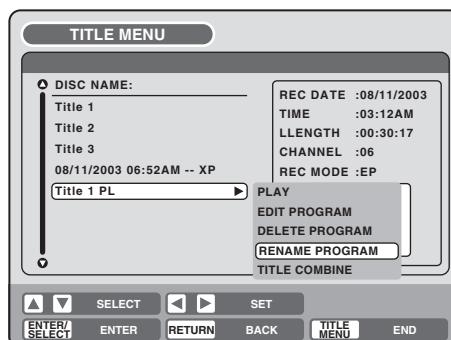


Creating and editing a play list

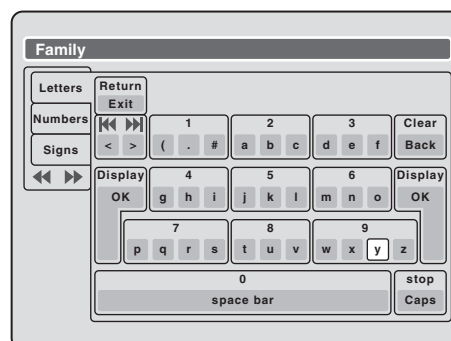


Renaming the title menu

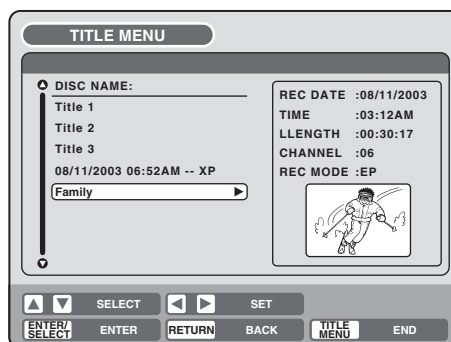
- 1 Press **TITLE MENU** to display the title menu.
- 2 Select the play list where you want to rename the program name.
 - Press **▲** or **▼** to select the play list.
 - Press **▶** to display the editing menu of the play list.
 - Press **▲** or **▼** to select "RENAME PROG".



- 3 Press **ENTER**.
The keyboard screen will appear.
- 4 Use the keyboard screen to enter the program name.



- 5 Press **DISPLAY/CALL**.
The entered title is selected and then the display will return to the title menu.

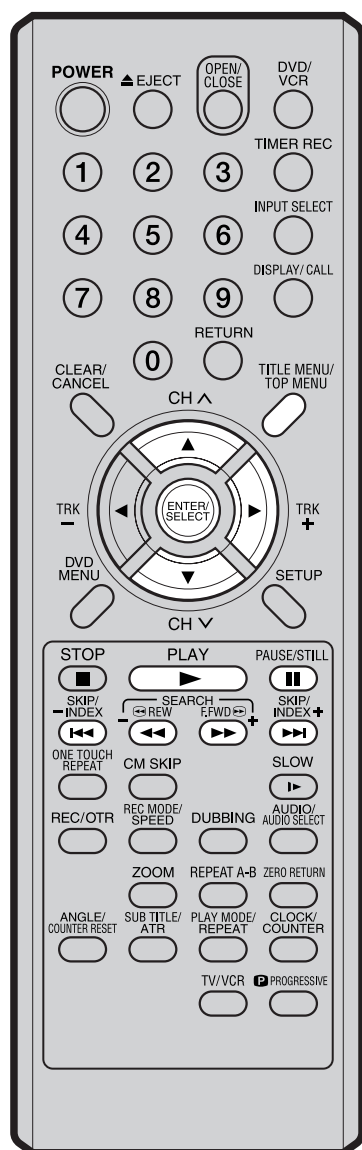


NOTES:

- The number of the characters which can be used for the program name is max. **.
- For using the keyboard screen, see "Renaming the disc name" (page 64).
- If the program name adopted in the other DVD recorder has a character which cannot be displayed in this unit, "*****" appears.



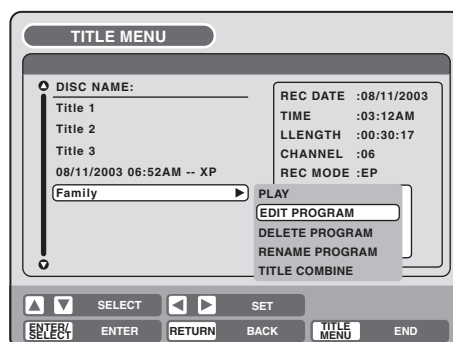
Creating and editing a play list



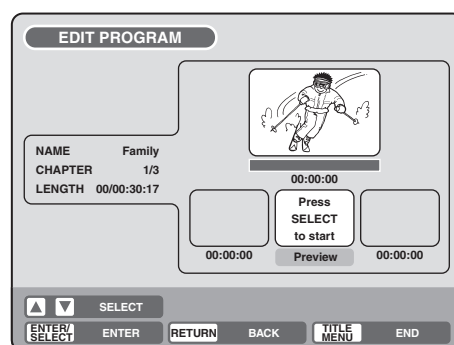
Erasing scenes (Edit program)

You can erase an unnecessary scene from the created play list. When you erase the scene from the play list, the scene is not erased from the original title.

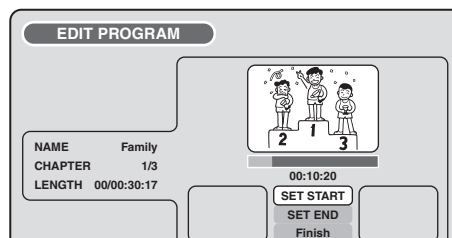
- 1 Press **TITLE MENU** to display the title menu.
- 2 Select the play list where a scene you want to erase is included.
 - Press **▲** or **▼** to select the play list.
 - Press **▶** to display the editing menu of the play list.
 - Press **▲** or **▼** to select "EDIT PROGRAM".



- 3 Press **ENTER**.
The EDIT PROGRAM screen appears.



- 4 Press **ENTER** to play back the play list on the EDIT PROGRAM screen.
 - Use each operation button (**F.FWD**, **REW**, **INDEX +**, **INDEX -**, **PLAY**, **PAUSES/STEILL**) for the playback to search the starting point of the scene you want to erase.



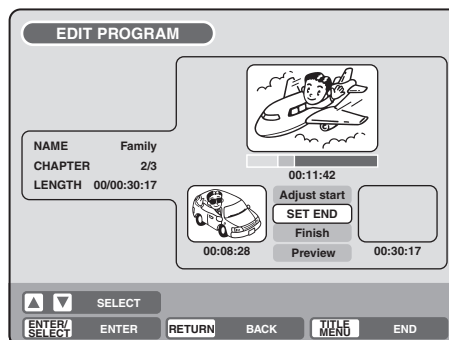
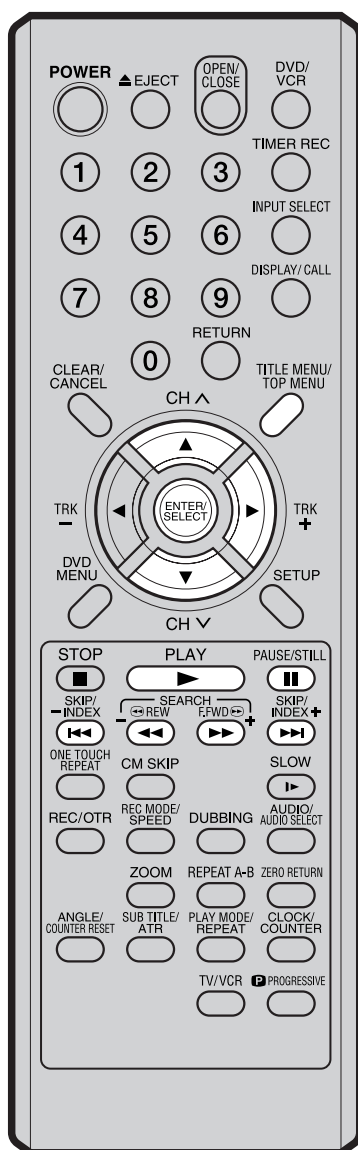
- 5 Select "SET START" at the start point of the scene that you want to erase and press **ENTER**. (To select the start point easily, search the start point while "SET START" is selected)
The still image at the start point appears at the left small screen.

NOTES:

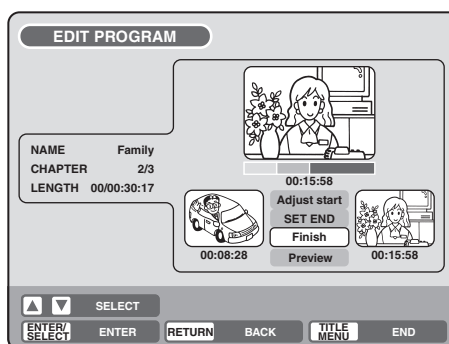
- You can erase the scenes up to ** times for one title.
- The first and last * seconds of a chapter mark cannot be selected as part erasing (start or end) points.
- The scene lasting less than * seconds cannot be erased.



Creating and editing a play list



- 6 Select "SET END" at the end point of the scene you want to erase and press **ENTER**.
The still image at the end point appears at the right small screen.



- 7 Check the erased scenes.
- Select "Preview" and press **ENTER**. Then the video where the scenes between the start and end points are erased is played back.
 - Each operation button (**F.FWD**, **REW**, **INDEX +**, **INDEX -**, **PLAY**, **PAUSES/STEILL**) for playback also can be used.
- 8 Adjust the start and end points.
- To adjust the start point, select "Adjust start" and press **ENTER**. You can change the start point every one second by pressing **◀** or **▶**.
 - To adjust the end point, select "Adjust end" and press **ENTER**. You can change the end point in the same way as the start point.

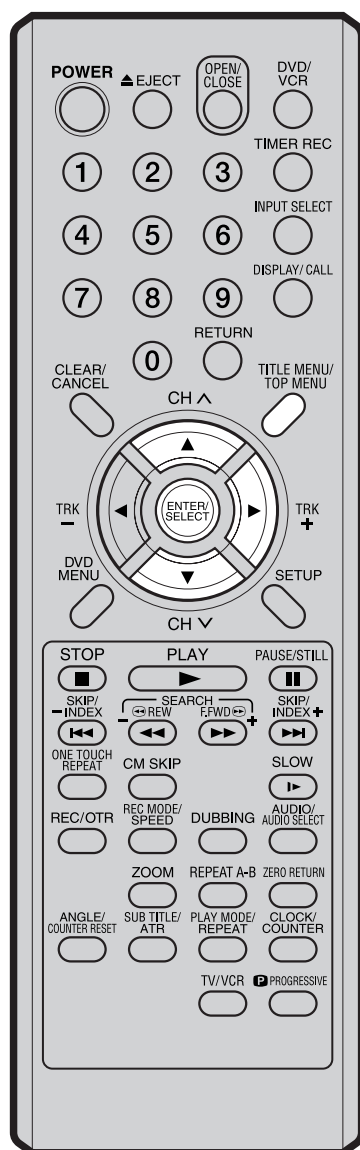
NOTE:

It is no problem to omit the procedures for confirming the scene or adjusting sot and end points.

- 9 If you determine the scene to be erased, select "Finish" and press **ENTER**.



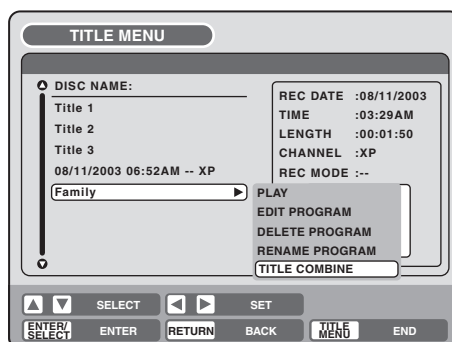
Creating and editing a play list



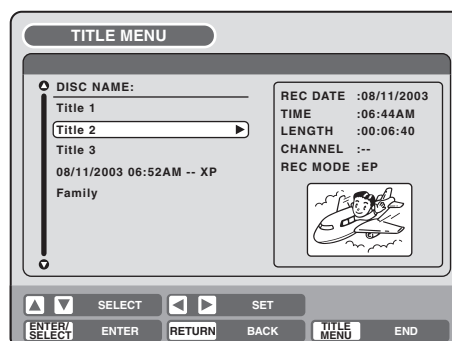
Combining the title

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

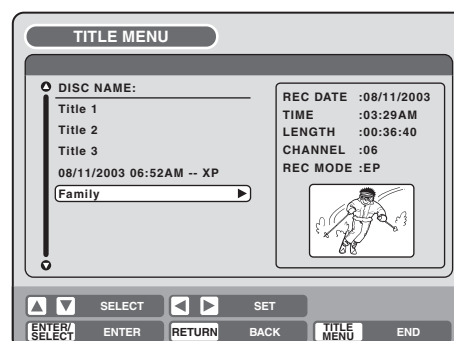
- 1 Press **TITLE MENU** to display the title menu.
- 2 Select the play list where you want to combine the titles.
 - Press **▲** or **▼** to select the play list.
 - Press **▶** to display the editing menu of the play list.
 - Press **▲** or **▼** to select "TITLE COMBINE".



- 3 Select the original titles that you want to combine from the title menu.



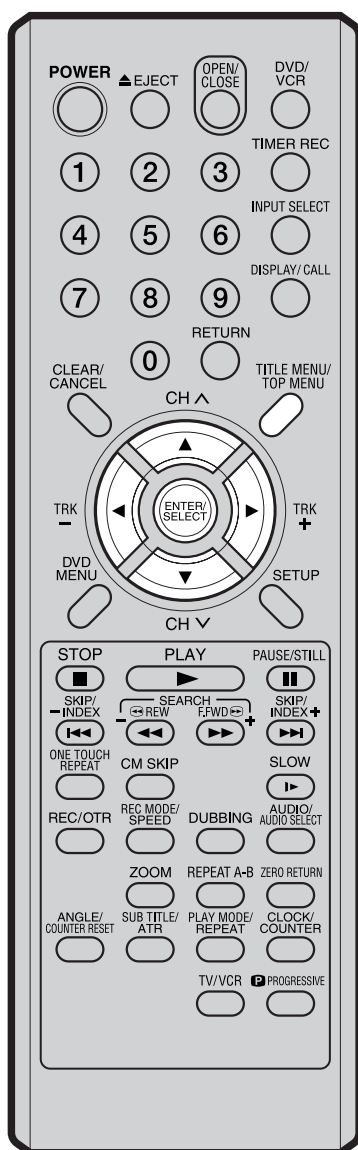
- 4 Press **ENTER**.
Following the play list, the original titles are combined.



The several titles were combined so that the total recording time is displayed.



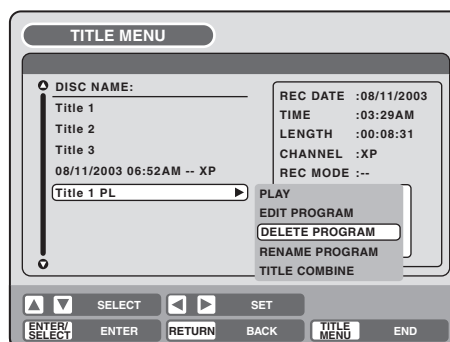
Creating and editing a play list



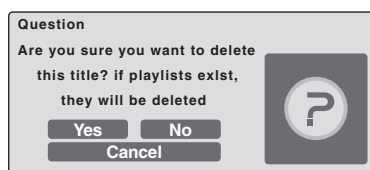
Erasing a play list

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

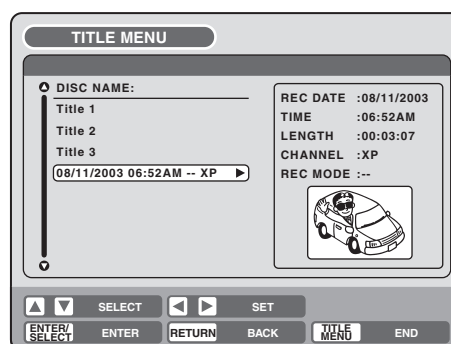
- 1 Press **TITLE MENU** to display the title menu.
- 2 Select the play list that you want to erase.
 - Press **▲** or **▼** to select the play list.
 - Press **▶** to display the editing menu of the play list.
 - Press **▲** or **▼** to select select "DELETE PROGRAM".



- 3 Press **ENTER**.
The following confirmation message will appear.



- 4 Selecting "YES" and press **ENTER**, then the play list will be erased.
 - Selecting "NO", and then erasing the play list will be cancelled.

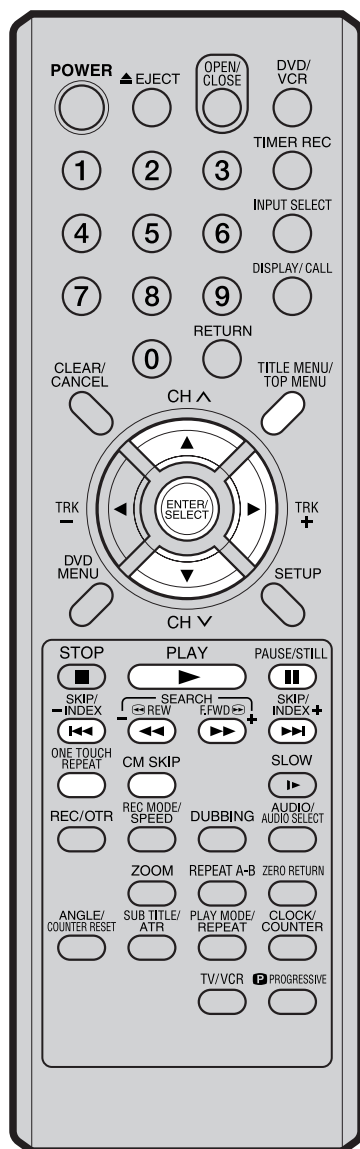




Editing original



The original titles can be edited only in the DVD-RW (VR).



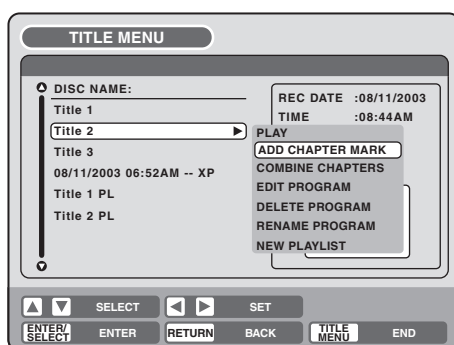
NOTES:

- Set an interval of 5 seconds between the existing chapter mark and the chapter mark to be added.
- You can automatically add a chapter mark in recording. For more information, see page 77.

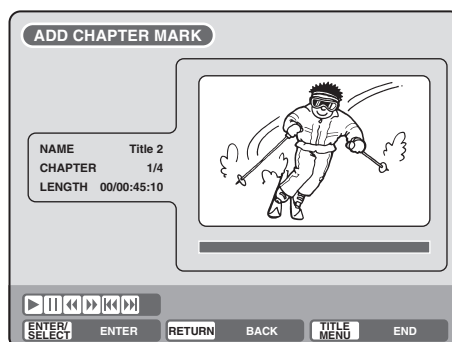
Adding a chapter mark

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

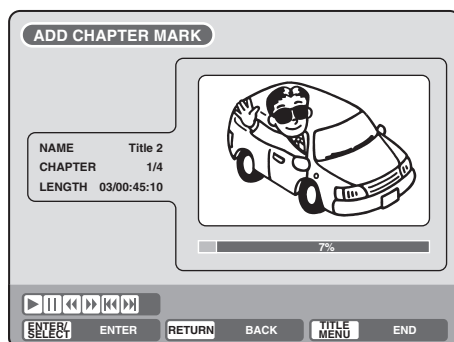
- Press **TITLE MENU** to display the title menu.
- Select the original title where a chapter mark is added.
 - Press **▲** or **▼** to select the original title.
 - Press **▶** to display the editing menu of the original.
 - Press **▲** or **▼** to select "ADD CHAPTER MARK".



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

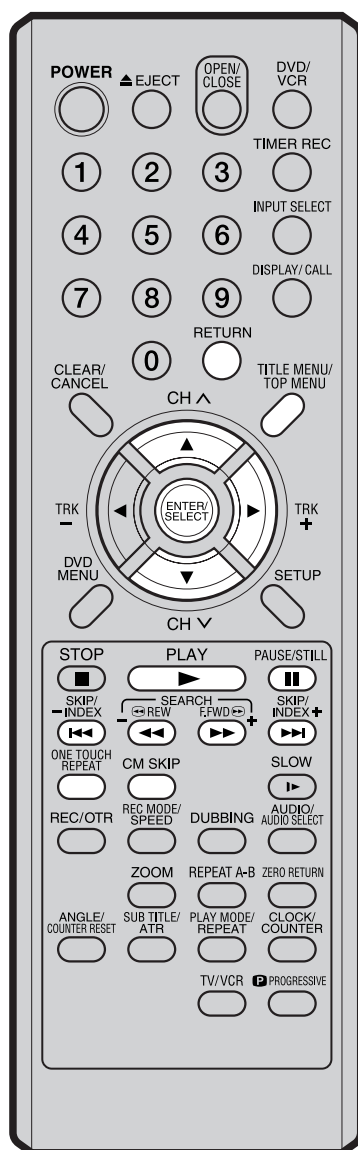


- Search a scene where you want to play back the title and add the chapter mark.
 - Search the scene by using each operation button (**F.FWD**, **REW**, **INDEX +**, **INDEX -**, **PLAY**, **PAUSES/STEILL**, **ONE TOUCH REPEAT**, **CM SKIP**) for the playback.

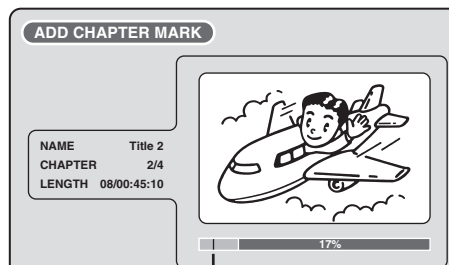




Recording a TV program



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



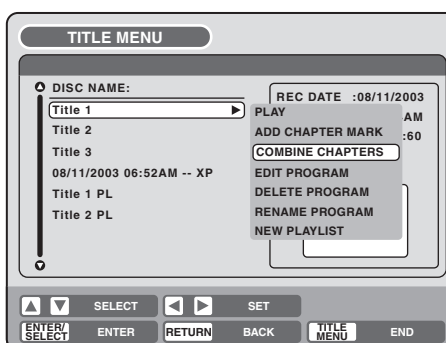
The added chapter mark

- 6 If you continue to add a chapter mark, carry out the steps 4 & 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

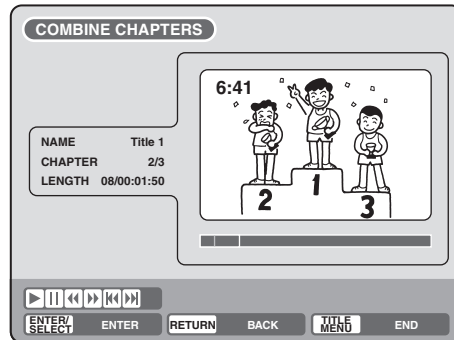
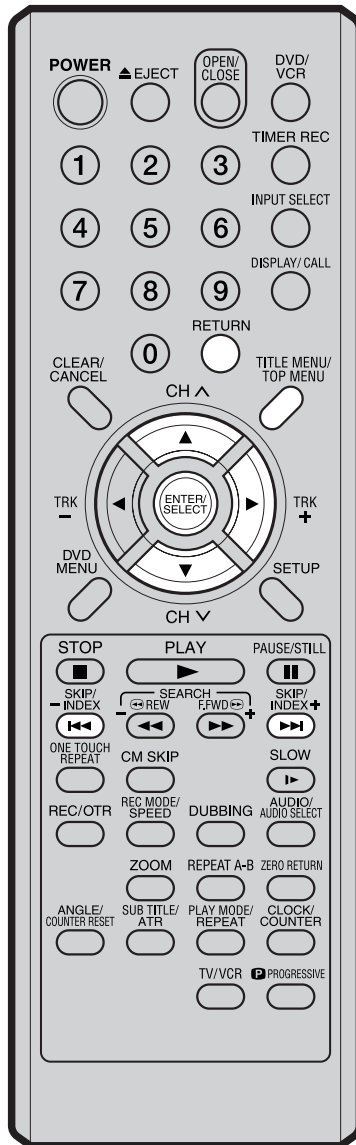
By erasing the added chapter marks, the chapters can be combined.

- 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 original editing menu.
 - 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 1 is displayed.

Editing original

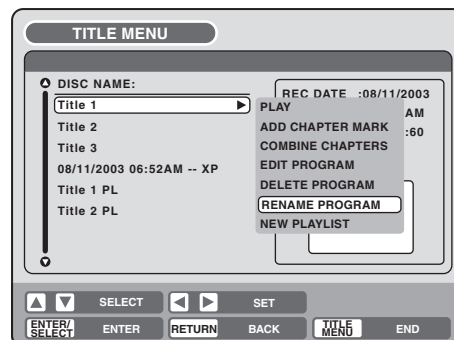


- 4 Press **INDEX +** or **INDEX -** to select the chapter marks to be erased.
- 5 Press **ENTER**.
The chapter marks are erased and 2 chapters are combined into 1 chapter.
- 6 To continue erasing the chapter marks, carry out the steps 4 & 5.
- 7 The chapter combination will be completed.
 - To display the title menu, press **RETURN**.
 - To return to the normal screen, press **TITLE MENU**.

Renaming program name

You can erase an unnecessary scene from the original program. Erase the scene after checking the program items. You cannot reproduce the erased scene.

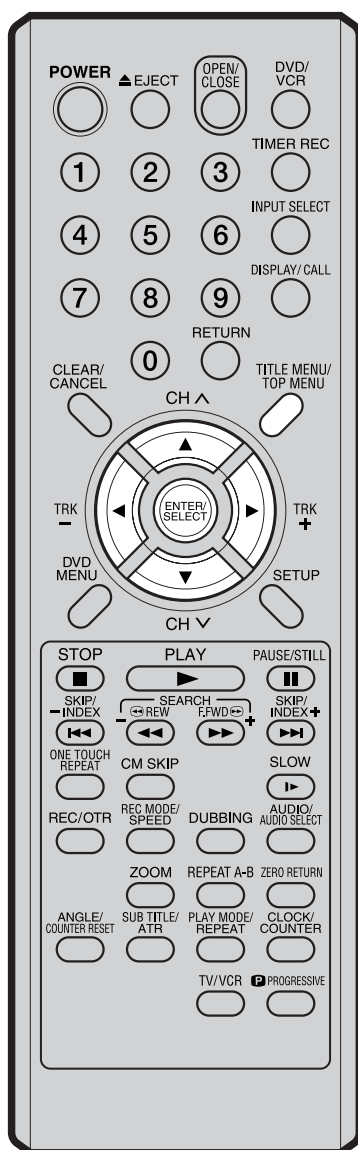
- 1 Press **TITLE MENU** to display the title menu.
- 2 Select the original program that you want to rename.
 - Press **▲** or **▼** to select the original program.
 - Press **▶** to display the original editing menu.
 - Press **▲** or **▼** to select "RENAME PROGRAM".



- 3 Press **ENTER**.
The keyboard screen appears.
The entering method of the program name is the same as for the play list. See the steps 4 & 5 of "Renaming the program name" in "Editing a play list" and enter the program name.



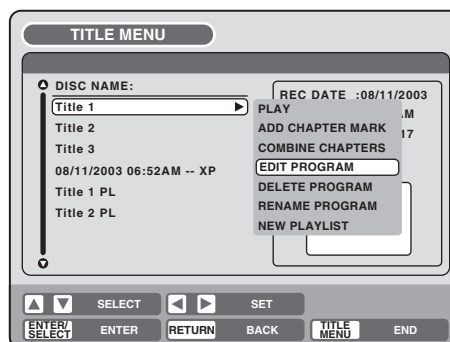
Editing original



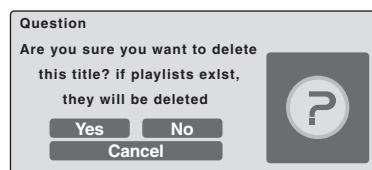
Erasing a scene (Edit program)

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

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

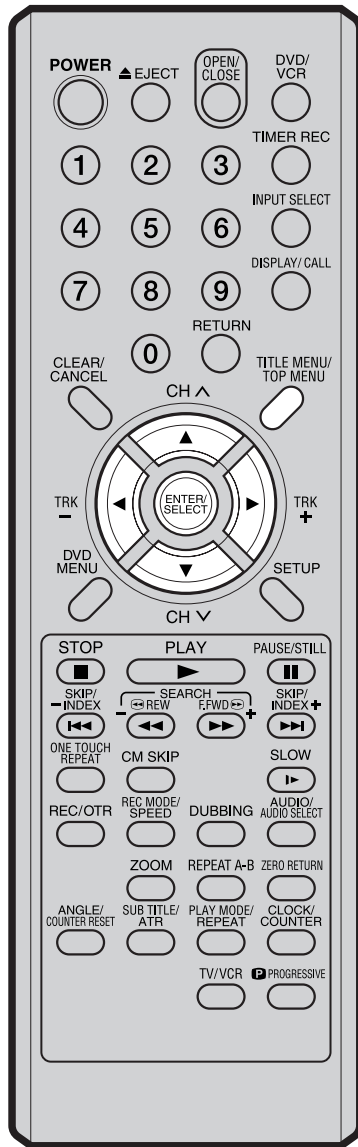


- 3 By pressing **ENTER**, the following message screen will appear.



- 4 Select "YES" and press **ENTER**, then the EDIT PROGRAM screen will appear.
 - By selecting "NO", the title menu appears.
- 5 The method for erasing a scene is the same as for the play list. See the steps 4 to 10 of "Erasing a scene (Edit program)" in "Editing a play list".

Editing original



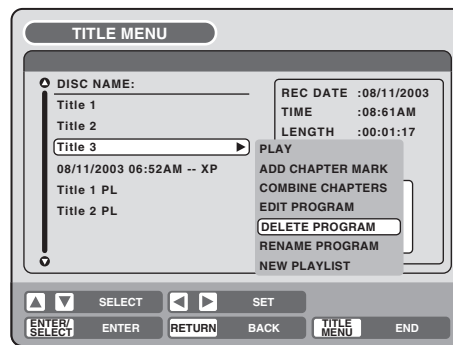
Erasing the original program

You can erase the original program.

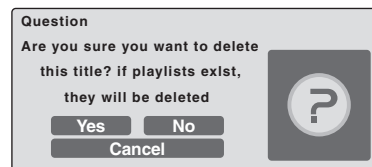
Erase the original program after checking its items. The erased program cannot be reproduced.

When you erase the programs, 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 program.
 - Press **▶** to display the original editing menu.
 - Press **▲** or **▼** to select "DELETE PROGRAM".



- 3 The following message screen appears by pressing **ENTER**.



- 4 Select "YES" and press **ENTER**, then the program will be erased.
 - Erasing the title will be cancelled by selecting "NO".

NOTE:

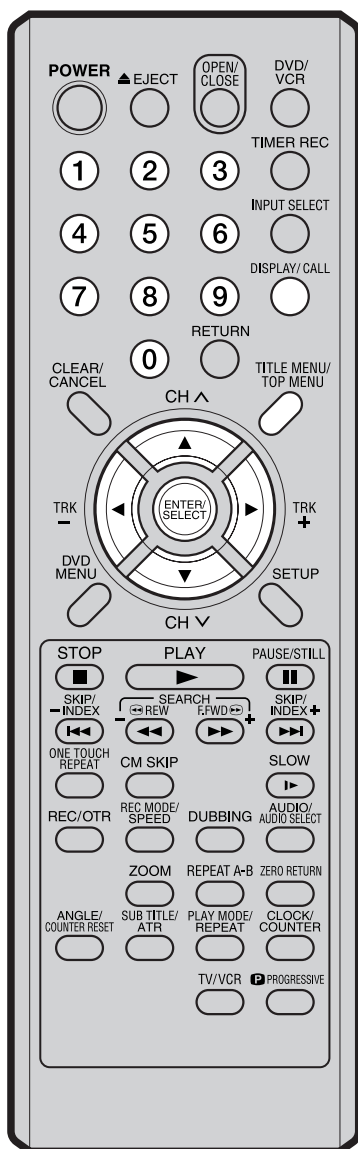
By erasing the original program, the same program will also be erased from the play list.



Renaming a disc name



You can rename a disc name from the title menu. In addition, to initialize a disc, the disc name can be entered.

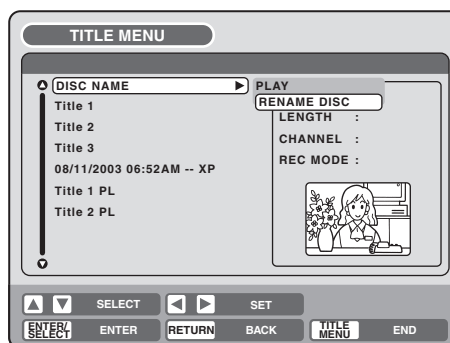


Preparation:

- Turn ON the TV and set to the video input mode.
- Load the recorded disc.

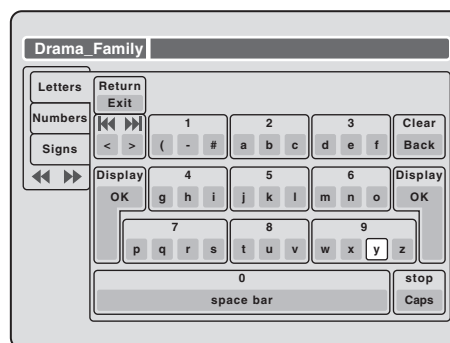
Renaming a disc name

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

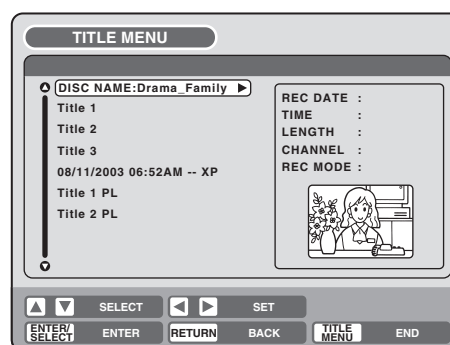


- 3 Press **ENTER**.
The keyboard screen will appear.

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



- 5 Press **DISPLAY/CALL**.
The entered program name is determined to display the title menu.



NOTES:

- The number of the characters which can be used for the disc name is max. **.
- For using the keyboard screen, see "Using the keyboard screen" (page 64).
- If the disc name adopted in the other DVD recorder has a character which cannot be displayed in this unit, "*****" appears.



Renaming a disc name



Using the keyboard screen

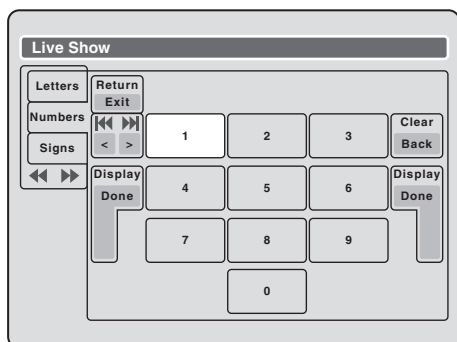
This section explains the function of the keyboard screen and how to input characters. The disc name and the program name can be renamed using the keyboard screen.

Keyboard screen types

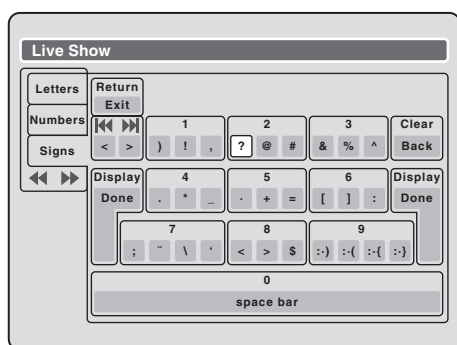
The keyboard screen has three types of “Letters”, “Numbers” and “Signs”. The type can be switched over by pressing **REW** or **F.FWD**.

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: This is used for inputting symbols.



Inputting characters

There are two methods for inputting characters.

Character input 1

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

Character input 2

Example: Explain here the procedure when you input “F” and “J”.

- 1 Press the numerical keys where a character you want to input is assigned.



- 2 Press the numerical keys continuously and select the character to be input.

To input F, press 3 twice.



NOTE:

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

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



NOTE:

After input one character, another character will not be input automatically until another character is selected.

- 4 Press the numerical keys where the following character is assigned.



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





Renaming a disc name

Erasing a character

You can erase the input character.

Erasing method 1

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

Erasing method 2

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

Erasing method 3

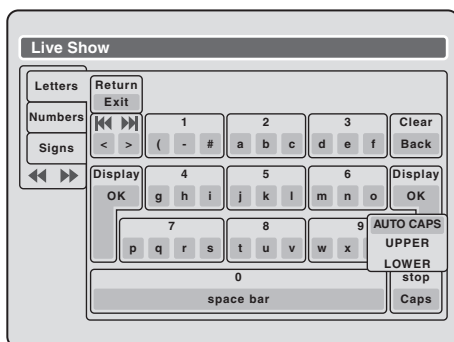
Use the cursor to select the character and erase it.

- 1 Press **INDEX -** or **INDEX +** to move the cursor after the character you want to erase.
- 2 Press **CLEAR**.
Erase the character before the cursor position.

Selecting between uppercase and lowercase letters

You can select the alphabets between uppercase and lowercase letters, which can be input on the keyboard screen of Letters.

- 1 Press **STOP**.
Select "a" or "Caps" and press **ENTER**.



- 2 Select one among the following items in the list 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 program name, press **DISPLAY/CALL**.

Or select "Ok" and press **ENTER**.

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

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

Canceling character input

When you want to cancel the input and changed characters, press **RETURN**.

Or select "Exit" and press **ENTER**.

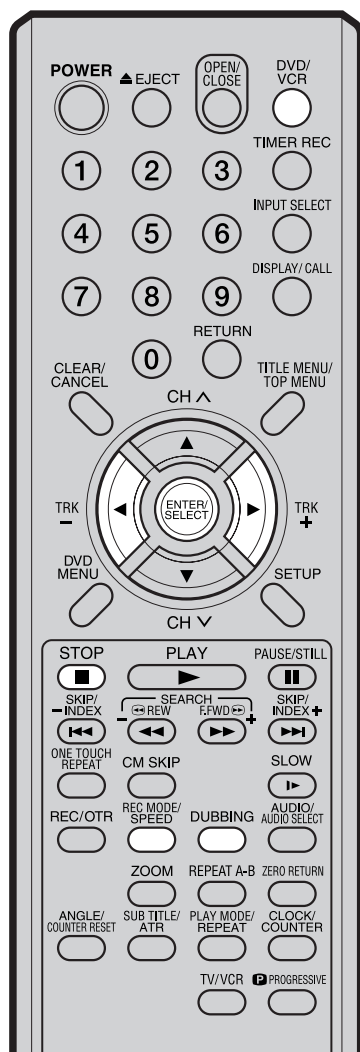
The input and changed characters are cancelled and the title menu will appear.



Dubbing a tape onto a disc



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



NOTES:

Dubbing cannot be carried out when

- the copy guard supporting tape is used.
- disc protection is set.
- disc has no recording space.

Dubbing stops when

- the video tape is played back to the end and stops.
- recording space becomes full.

Copyright

- The videos recorded from the TV programs or movies can be used only for your personal enjoyment without permission of the copyright holder.

Preparation:

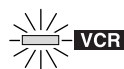
- Turn ON the TV and set to the video input mode.
- Load a source video tape and a disc for recording.
- Set the erase-protection tab of the source video tape to prevent the data from accidentally being erased.
- Confirm the disc space before operation.

1 Press **DVD/VCR** to set this unit to DVD mode. The DVD mode lamp comes on.

2 Press **REC MODE** and select the recording mode.

- When REC MODE 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 42.

3 Press **DVD/VCR** and set the unit to VCR mode.



NOTE:

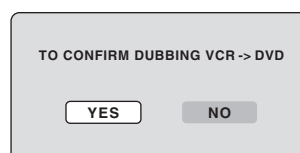
Confirm that the VCR mode lamp stays on.

4 Press **DUBBING**.

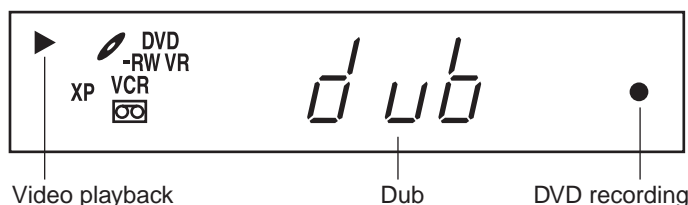
- By pressing **DUBBING**, the DVD mode is selected.
- The VCR is waiting for playback and the DVD is waiting for recording. Then the following message will appear.

5 Select "YES" and press **ENTER**. Dubbing starts.

- To stop dubbing, select "NO" and press **ENTER**.



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



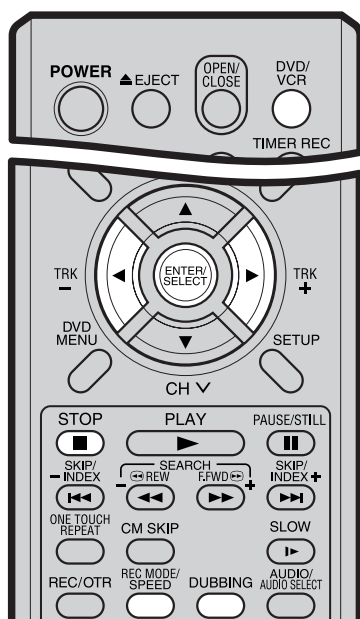
7 To stop dubbing, press **STOP**.



Dubbing a disc onto a tape



You can record video or audio on a disc onto a video tape. When the disc with a copy guard function is used, a disordered image is recorded on the video tape.



NOTES:

Dubbing cannot be carried out when

- the copy guard supporting tape is used.

Dubbing stops when

- the disc is played back to the end and stops
- no recording space in vide tape becomes remained.

Copyright

- The videos recorded from the 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 disc and a video tape for recording.
- Confirm the remaining tape for recording before operation.

1 Press **DVD/VCR** to set this unit to VCR mode.

The VCR mode lamp comes on.

2 Press **REC MODE/SPEED** and select the recording mode.

- When REC MODE 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 38.

3 Press **DVD/VCR** and set the unit to DVD mode.



NOTE:

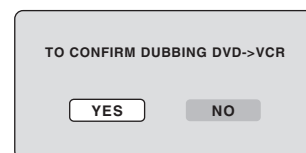
Confirm that the DVD mode lamp stays on.

4 Press **DUBBING**.

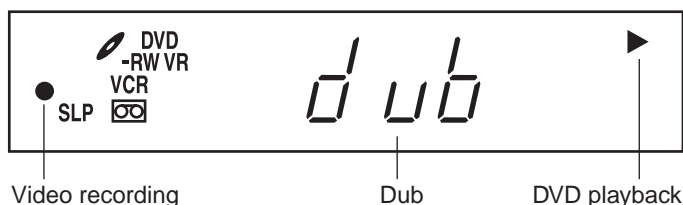
- The DVD is waiting for playback and the VCR is waiting for recording. Then the following message appears.

5 Select "YES" and press **ENTER**.
Dubbing starts.

- To stop dubbing, select "NO" and press **ENTER**.



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



7 To stop dubbing, press **STOP**.
When DVD is played back, " " mark is displayed by the auto resume function. By pressing **STOP** once more or removing the disc from the unit, the auto resume condition is cancelled.

Dubbing only the special programs or the play list

When you want to dub only the special programs or the play list recorded on the disc, play back the program or the play list you want to dub using the title menu, and immediately press one of **DUBBING**, **STOP** or **PAUSE/STILL**. When you press **DUBBING**, proceed the steps 5 and after above, and when you press **STOP** or **PAUSE/STILL**, proceed the steps 4 and after above. However, a few seconds at the first part of the video may not be recorded. When playback of the program or the play list selected is completed, the dubbing stops.

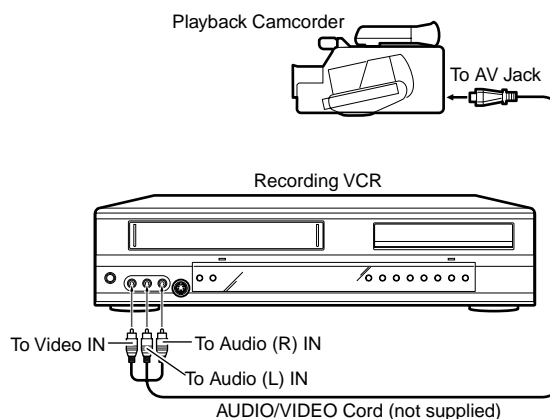
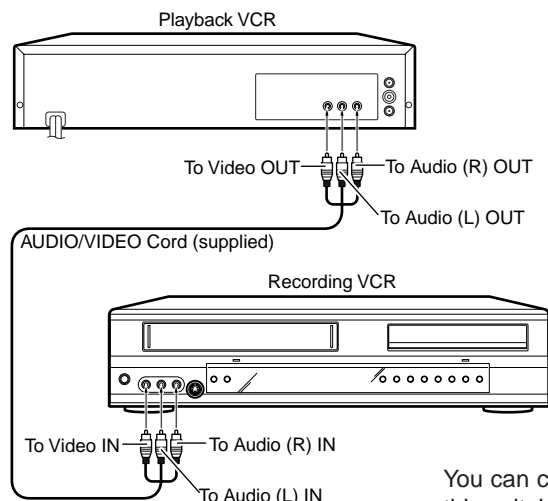


Dubbing video or audio by connecting other equipment



You can connect the other VCR or camcorder to dub video or audio.

Typical connection: When using this unit as a recording device



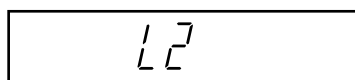
You can connect to the audio/video input jack (L1) at the rear side of this unit. In addition, each S video input jack at the front and rear sides and an S video output jack is at the rear side of the unit so that they can be used for recording on the disc.

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). 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 38)
DVD: SP, LP, SLP or XP (See page 42)

- 3 Press **REC/OTR** on the recording VCR, then press **PAUSE/STILL**.

- 4 Press the **PLAY** button on the playback VCR or CAMCORDER, 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:

- 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 "Selecting the screen display" on page 74.
- The videos recorded from the TV programs or movies can be used only for your personal enjoyment without permission of the copyright holder.
- The copy guard supporting tape cannot be used for dubbing.



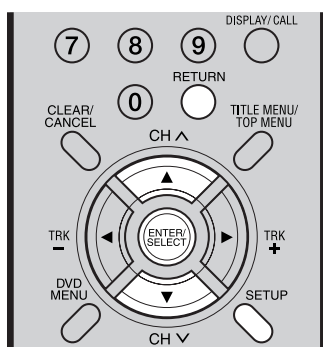


SETUP MENU

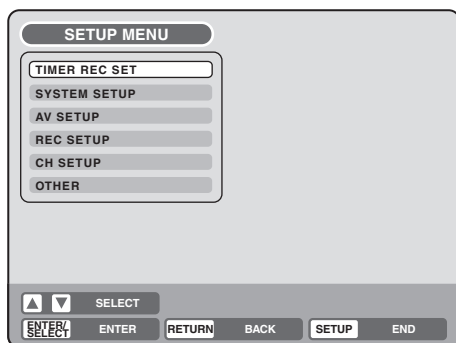
The **SETUP MENU** consists of several menus where you can make various settings concerning language, audio functions, and images. In addition, this menu includes a clock, channel and other things that require setting just after purchase. For details of each menu, see the corresponding section in this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

Using the SETUP MENU

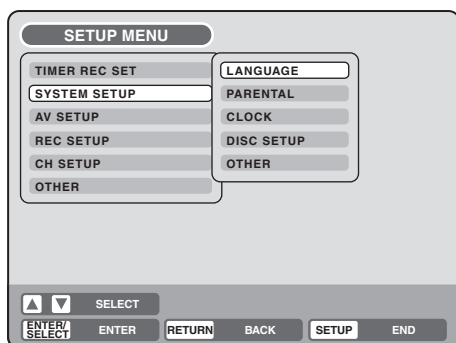
The following example shows the basic setting procedure of the SETUP MENU. The remote control keys that can be operated in the SETUP MENU mode is displayed at the bottom of the screen.



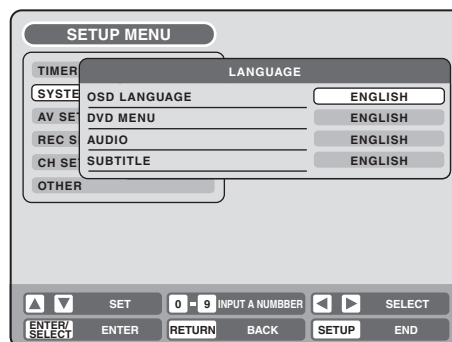
- 1 Press **SETUP** while the DVD or video tape is stopped. The SETUP MENU screen will appear.



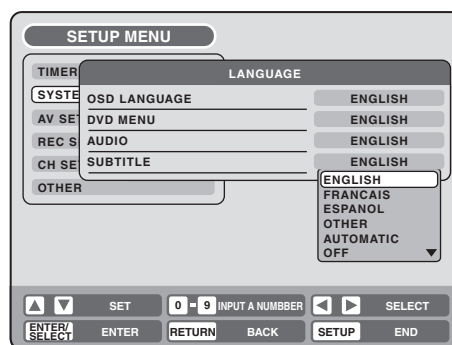
- 2 Press **▲** or **▼** to choose the menu you want to select and press **ENTER**. The submenu screen of the selected menu will appear.



- 3 Press **▲** or **▼** to choose the submenu you want to select and press **ENTER**. The setting screen of the selected submenu will appear.



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



- 5 Press **▲** or **▼** to choose the desired item and press **ENTER**. This completes the setting procedure.
 - To return to the previous screen, press **RETURN**.
 - To close the SETUP MENU, press **SETUP**.

NOTE:

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

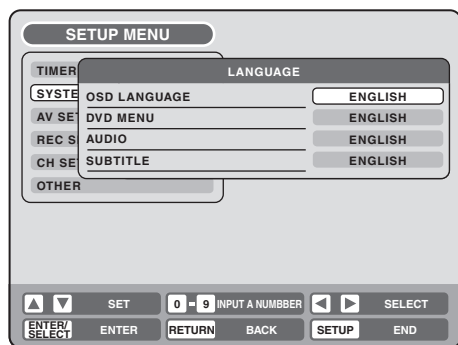


Setting the language

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

Preparation:

- Turn ON the TV and set it to the video input mode.
- Select “**LANGUAGE**” from “**SYSTEM SETUP**”. For the procedure, see steps 1 to 3 in “Using the SETUP MENU”.



OSD language

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

Selectable languages:

ENGLISH, FRANCAIS, ESPANOL

DVD menu

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

Selectable languages:

ENGLISH, FRANCAIS, ESPANOL

The selected language is the first priority menu language.

OTHER

Other languages can be selected (see the Language code list on page ***).

Audio

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

Selectable languages:

ENGLISH, FRANCAIS, ESPANOL

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

ORIGINAL

The unit will select the first priority language of each disc.

OTHER

If you want to select another language, enter the language code (see the Language code list on page ***).

NOTE:

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

Subtitle

When several subtitles languages are recorded on DVD, you can select the language to be used for the subtitles. The selected language remains effective after the power is turned off or the disc is replaced. Select “SUBTITLE” and select the menu language from the list below.

Selectable languages:

ENGLISH, FRANCAIS, ESPANOL

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

OTHER

If you want to select another language, enter the language code (see the Language code list on page ***).

AUTO

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

OFF

Subtitles do not appear.

NOTE:

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

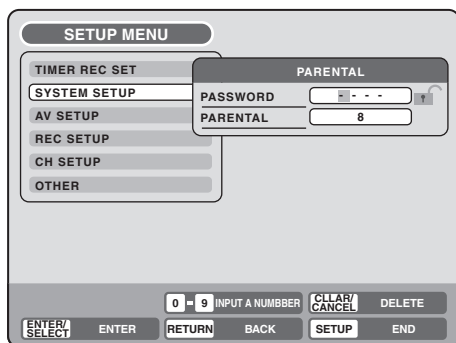


Selecting and cancelling of parental control

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

Preparation:

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



Selecting parental control

Select PARENTAL and select the parental control level from the list below.

- Level Off:** Parental control is turned off.
- Level 1:** DVD expressly for children can be played back.
- Level 2 to 7:** DVD for general/children can be played back. (DVDs with mature content are prohibited.)
- Level 8:** All DVD software can be played back.

Select from level 1 to level 8.

On a scale of 1- 8, "1" is the most restrictive.

To lock the selected parental control level

- 1 To lock the selected parental control level, press **▲** and choose "PASSWORD".
- 2 Use the **numeric keys** to input the 4-digit password.
 - If you input a wrong number, press **CANCEL**.
 - Be sure to remember this number!
- 3 Press **ENTER**.

1234 change to

To cancel the locked parental control level

- 1 Select "PASSWORD" shown in step 1 of the above section and use the **numeric keys** to input the password.
- 2 Press **ENTER**.
The locked mark "🔒" will change to an unlocked mark "🔓".
Then, you can change the parental control level.

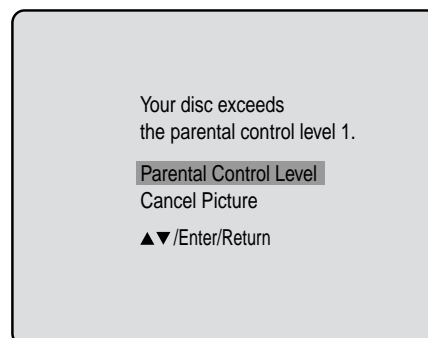
NOTE:

- The selected level will apply to operations executed after this.
- The unit cannot restrict playback of some discs.
- Some discs may not be encoded with specific rating level information though its disc jacket says "adult". Parental control will not work with those discs.
- Do not forget the password. If you forget the password, contact customer service.

Temporarily canceling parental control

Parental control can temporarily be cancelled with some DVDs.

- 1 Playback a DVD. (See page 23.)
- 2 If the DVD disc has been designed to temporarily cancel the rating level, the screen that follows the "READING" screen will change. If you select "YES" with the **ENTER**, the message "Your disc exceeds parental control level 1." (e.g.) will then appear.



- 3 If you wish to cancel the set rating level temporarily, select "Parental Control Level" with **▲** or **▼**, then press **ENTER**. If the password has been selected, the password input screen will appear. Alternatively, if the password has not been set, playback will commence. If you don't know (or have forgotten) the password, select "Cancel Picture". The setting screen will disappear. Press **OPEN/CLOSE** to remove the disc.
- 4 Use the **numeric keys** to input the password.
 - To interrupt the input process, press **RETURN**.
- 5 Press **ENTER**.
- 6 Playback will commence if the entered password was correct.

NOTE:

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

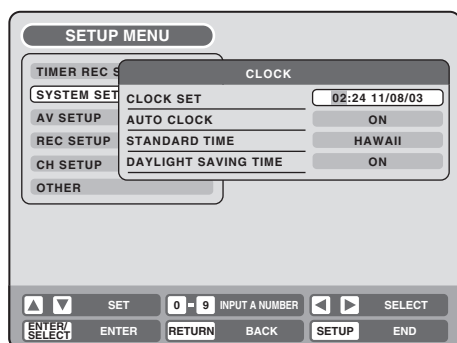


Setting the clock

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

Preparation:

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



CLOCK SET (manually)

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

Ex.: Setting the clock to “10:20” September, 15th, 2003.

- 1 Select “CLOCK SET” and press **ENTER**.

01:01 01/09/03

- 2 Select the desired items using ◀ or ▶ (hour, minute, date, month and year).

- 3 Press ▲ or ▼ to set the value of the selected item.
 - For the minutes, press ▲ or ▼ once to set the time minute by minute, or hold down either of buttons for several seconds to set the time in 10-minute intervals.

01:01 15/09/03

- 4 Repeat steps 2 and 3 to set the present time, date and year, and press **ENTER**.

10:20 15/09/03

This completes clock time setting.

AUTO CLOCK

You can automatically set the clock by turning “ON” the AUTO CLOCK function. The default setting is “ON” so that the clock is automatically set as described in “Auto clock setting” (See page**)

When you want to set the AUTO CLOCK function to “OFF”, select “AUTO CLOCK”, press **ENTER** and select “OFF” from the list.

NOTE:

- If power is lost or the power plug is disconnected for 30 minutes or longer, the built-in clock is reset. In such case, set the clock manually or set the AUTO CLOCK function to “ON” and set the clock automatically.

STANDARD TIME (Time zone)

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

Select “STANDARD TIME” and select the time zone from the list below.

Selectable time zones and correction times

ATLANTIC: GMT – 4 hours
(GMT: Greenwich Mean Time)

EASTERN: GMT – 5 hours

CENTRAL: GMT – 6 hours

MOUNTAIN: GMT – 7 hours

PACIFIC: GMT – 8 hours

ALASKA: GMT – 9 hours

HAWAII: GMT – 10 hours

AUTO: AUTO SET

NOTES:

- When shipped from the factory, the “TIME ZONE” option is set to “AUTO”.
- After making the auto clock setting, in some cases the clock may display another time zone. You can correct the clock by selecting your time zone setting above.
- When the clock is not set or you set the clock manually, the time zone setting is not available.

DAYLIGHT SAVING TIME

You can set the clock to daylight saving time.

To select daylight saving time, select “DAYLIGHT SAVING TIME” and select “ON”, while to cancel the daylight saving time, select “OFF”.

ON: Forward one hour

OFF: Back one hour

NOTES:

- When you want to set daylight saving time, on the first unday in April you set it to “ON”, and on the last Sunday in October you set it to “OFF”.
- When shipped from the factory, the “DAYLIGHT SAVING TIME” option is set to “OFF”.
- When the clock is not set, the daylight saving time setting is not available.
- When there is no daylight saving time in your area, always select “OFF”.

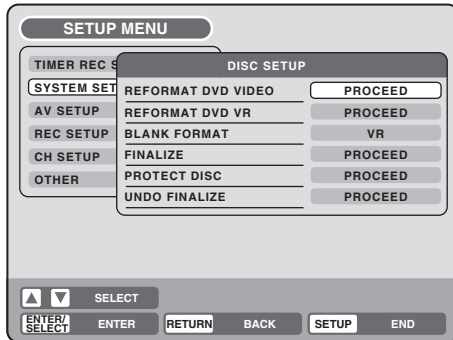


Disc setup and operation

You can format, protect or finalize the disc.

Preparation:

- Turn ON the TV and set it to the video input mode.
- Select “**DISC SETUP**” from “**SYSTEM SETUP**”. For the procedure, see steps 1 to 3 in “Using the SETUP MENU”.



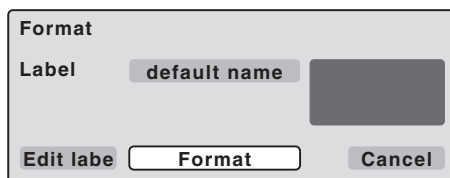
REFORMAT

You can format a recorded DVD-RW.

Check the content of the disc before format. If you format the disc, the recorded content of the disc will be erased.

To format a DVD in the video mode, select “REFORMAT AS DVD VIDEO”, and to format it in the VR mode, select “REFORMAT AS DVD VR”.

The screen below will appear.



- When you select “Format” and press **ENTER**, format will start.
- When you select “Cancel” and press **ENTER**, the DISC SETUP screen will appear.
- If you want to name the disc, select “Edit label” and press **ENTER**. The disc name input screen will appear.
For disc name input, see page**.

NOTES:

- You cannot format Ver. 1.0 DVD-RW and DVD-R.
- You cannot format a protected disc.
- You cannot watch video screen images during format.

NEW DISC FORMAT

If you insert a blank DVD-RW, the disc is automatically format.

Select “NEW DISC FORMAT” and select the mode to be used for automatic format from the list below.

VR: format the DVD in the VR mode.

Video: format the DVD in the video mode.

NOTE:

The automatic format is effective only for Ver. 1.1 or later DVD-RW.

FINALIZE

When you finalize the disc recorded or edited by this unit, you can playback the disc on other DVD players. When “FINALIZE” is selected, the screen below will appear.

NOTES:

- The finalization time is between a few minutes and about an hour. The required time varies according to disc type or the amount of free space on the disc.
- You can record or edit a DVD-RW (in VR mode) finalized by this unit in the usual fashion, but you cannot do these operations with a DVD-RW (in video mode) or DVD-R.
- For a DVD-RW (in VR mode) which was finalized by another unit, you can record or edit on this unit by canceling the finalization.
- You cannot playback a disk recorded on VR mode on a unit that does not support DVD-RW.
- Even if you finalize a disc in the video mode, the disc cannot be played back in some DVD players.
- You cannot watch video screen images during finalization.



Disc setup and operation / other (SYSTEM SETUP)

PROTECT DISC

You can protect a disc to prevent the content recorded on it from being erased, edited or re-recorded. Only DVD-RW (in VR mode) can be protected. Select "PROTECT DISC" and select "ON" to protect the disc.

To cancel the disc protection, select "OFF".

NOTES:

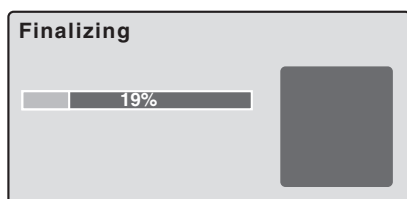
- Some discs may require about 2 minutes for the protection process.
- You cannot format a disc where the disc protection is "ON".

UNDO FINALIZE

You can cancel the finalization of a DVD-RW (in video mode) finalized by this unit and a DVD-RW (in VR mode) finalized by another unit.

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

Select "UNDO FINALIZE", and the screen below will appear.



- When you choose No and press "ENTER", the previous screen will appear.
- When you choose Yes and press "ENTER", the finalization will be cancelled.

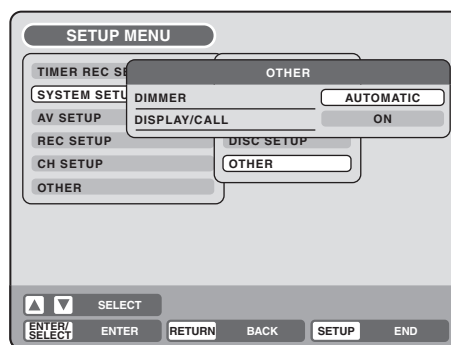
NOTES:

- Some discs may require about ** minutes for the canceling finalization process.
- When the disc's finalization cannot be cancelled, you cannot choose "UNDO FINALIZE".

You can turn the display window and screen display "ON" or "OFF".

Preparation:

- Turn ON the TV and set it to the video input mode.
- Select "OTHER" from "SYSTEM SETUP". For the procedure, see steps 1 to 3 in "Using the SETUP MENU".



DIMMER (Turning the display window "ON" or "OFF")

Set the brightness of the display window from the front panel of this unit.

Select "DIMMER" and select the display window status from the list below.

AUTOMATIC: The window appears bright. When no operation is carried out for a while, the window will become dark to reduce power consumption.

DIM: The window always appears dark.

OFF: The window display is turned OFF.

DISPLAY / CALL (Selecting the screen display)

You can turn off the screen display of the clock or counter that is output to the TV screen by this unit. Select "DISPLAY/CALL", and select "ON" or "OFF".

ON: The screen display can appear.

OFF: Nothing but the SETUP MENU and error messages can be displayed.

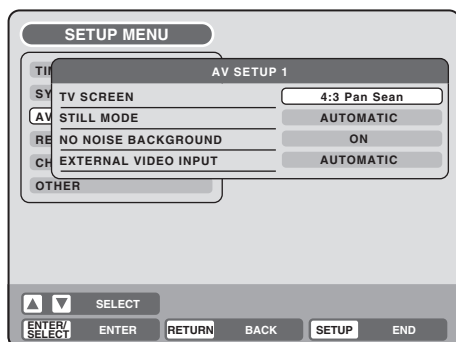


Turning on the screen display

This section describes settings about movie playback.

Preparation:

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



TV SCREEN

You can select the TV screen size to suit the screen image.

Select “TV SCREEN” and select screen size from the list below.

4:3 Letter Box

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

4:3 Pan Scan

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

16:9 Wide

Select this mode when connecting to a wide-screen TV.

A wide-screen picture is displayed in full size.

NOTE:

If the DVD disc is not formatted in the pan scan format, it displays a 4:3 aspect ratio.

STILL MODE

You can set the type of image displayed on the TV screen when the playback of the DVD is paused.

Select “STILL MODE” and select the image to be displayed from the list below.

AUTOMATIC

When the pause is maintained for a long time, the image display will turn off. When you cancel the pause, the movie plays back as usual.

STILL BY FRAME

An image is displayed on the screen from when the unit is paused.

NOTE:

When the pause is maintained for a long time and the same image has been displayed, the TV screen may be fatally damaged. It is recommended to use the default setting (AUTOMATIC) as it is for the STILL MODE.

NO NOISE BACKGROUND

When you select a channel where the broadcast has finished or no broadcast is set, the TV screen will automatically appear blue.

The function above works when you select “NO NOISE BACKGROUND” and select “ON” from the list. If you don’t want to use this blue background function, select “OFF”.

The default setting is “ON”.

EXTERNAL VIDEO INPUT

This unit comes with an S-video input terminal and pin plug type (COMPOSITE) terminal as video input terminals. If both terminals are used, the priority terminal can be selected.

Select “EXTERNAL VIDEO INPUT” and select the mode from the following list.

AUTOMATIC

The S-video input terminal has priority. This is the default setting.

COMPOSITE VIDEO

The composite video input has priority.

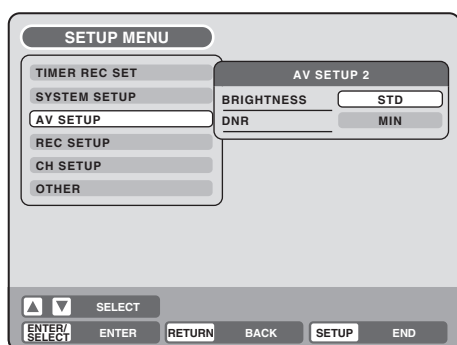


Adjusting audio

This section describes image quality settings.

Preparation:

- Turn ON the TV and set it to the video input mode.
- Select “**AV SETUP 2**” in “**AV SETUP**”. For the procedure, see steps 1 to 3 in “Using the SETUP MENU”.



BRIGHTNESS

You can control the brightness level of the image. Select “**BRIGHTNESS**” and select the level from the list below.

MAX: The image becomes brighter.

STD: The image is of standard brightness.

MIN: The image becomes darker.

DNR

You can adjust the digital noise reduction function that reduces screen noise during playback. Select “**DNR**” and select the level from the list below.

MAX: Uses the max. DNR effect.

STD: Uses a DNR effect at the middle level between MAX and MIN.

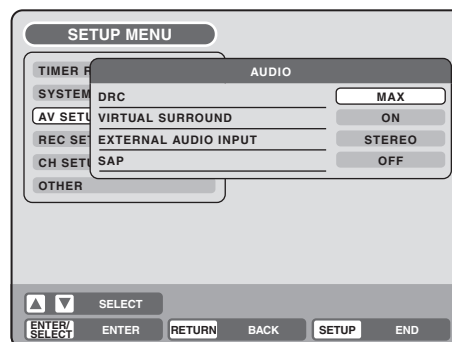
MIN: Uses the min. DNR effect.

OFF: Default setting. DNR is not used.

This section describes audio settings.

Preparation:

- Turn ON the TV and set it to the video input mode.
- Select “**AUDIO**” from “**AV SETUP**”. For the procedure, see steps 1 to 3 in “Using the SETUP MENU”.



DRC

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

Select “**DRC**” and select the level from the list below.

MAX: Full dynamic range is increased.

STD: Full dynamic range is maintained.

MIN: Dynamic range is reduced.

NOTES:

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

VIRTUAL SURROUND (Spatializer N-2-2™)

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

Select “**VIRTUAL SURROUND**” and select “**ON**” from the list to activate the virtual surround function. To not use the virtual surround, select “**OFF**”.

The default setting is “**OFF**”.

EXTERNAL AUDIO INPUT

The audio mode for the audio input terminal can be selected between stereo or monaural.

Select “**EXTERNAL AUDIO INPUT**” and select from the list below.

STEREO: The sound is treated as stereo sound

L CH: The sound is treated as the monaural sound of the left channel.

R CH: The sound is treated as the monaural sound of the right channel.



Turning on image quality control / recording

SAP (Second Audio Program)

This unit is fitted with an SAP broadcast system that enables you to switch to a second audio program while viewing a selected channel.

This function applies only when the program is broadcast in multiple languages through the SAP broadcast system.

Select "SAP" and select "ON" to use SAP, and to not use it, select "OFF".

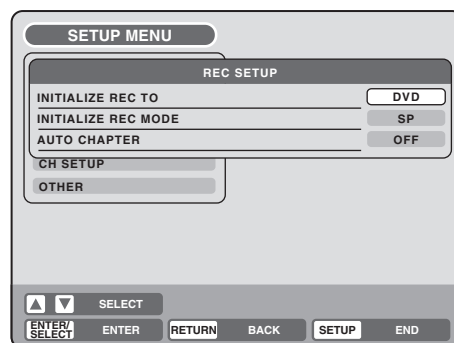
Listening to SAP

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

This section describes image quality settings.

Preparation:

- Turn ON the TV and set it to the video input mode.
- Select "REC SETUP". For the procedure, see steps 1 to 3 in "Using the SETUP MENU".



INITIALIZING REC TO

You can select the medium for recording that is first displayed in the item "REC TO" on the advance timer recording screen. The initial setting is "DVD".

Select "FORMAT REC TO" and select the medium for recording from the following list.

DVD: DVD is displayed in "REC TO".

VCR: VCR is displayed in "REC TO".

INITIALIZING REC MODE

You can select the recording mode that is first displayed in the item "REC MODE" on the advance timer recording screen. The initial setting is "SP".

Select "INITIALIZING REC MODE" and select the recording mode from the following list.

DVD: XP/SP/LP/SLP

VCR: SP/SLP

NOTE:

For the DVD recording mode, see page **. And for the VCR recording mode, see page **.

AUTO CHAPTER

You can automatically make chapter marks on the DVD to be recorded.

Select "AUTO CHAPTER" and select the interval between chapter marks from the list below.

OFF: The automatic chapter is not used.

5 MIN: The interval is set to 5 minutes

10 MIN: The interval is set to 10 minutes

15 MIN: The interval is set to 15 minutes.

30 MIN: The interval is set to 30 minutes.



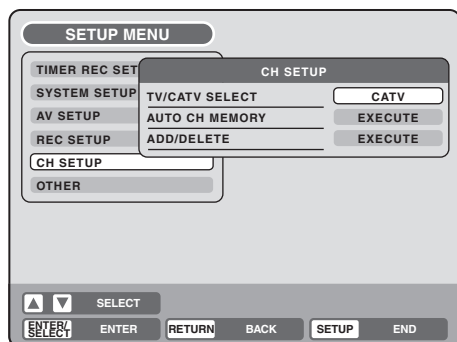
Selecting reception channel / other

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

Before selecting channels, they must be programmed into the DVD/VCR's memory. In addition to normal VHF and UHF channels, this DVD/ VCR can receive up to 113 Cable TV channels. To use this DVD/VCR with an antenna, set the TV/CATV menu option to the TV mode. When shipped from the factory, this menu option is in the CATV mode.

Preparation:

- Turn ON the TV and set it to the video input mode.
- Select "**CH SETUP**". For the procedure, see steps 1 to 3 in "Using the SETUP MENU".



TV/CATV SELECT

Select "TV/CATV SELECT" and select "TV" or "CATV".

TV: VHF/UHF channels

CATV: CABLE TV channels

AUTO CH MEMORY

The VCR can receive a maximum of 181 channels by presetting the channels into memory.

When you select "AUTO CH MEMORY" and press **ENTER**.

The AUTO CH MEMORY function will be activated.

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

ADD/DELETE (channels)

You can add the channels you want or delete the channels you do not want manually.

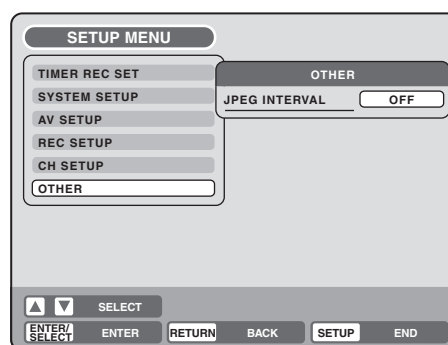
Select "ADD/DELETE" and select "ADD" or "DELETE" for each channel.

- Press **▲** or **▼** to select the channel.
The **numeric keys** can also be used for selection.
- When you want to delete the selected channel, use **+** or **-** to select "DELETE" and press **ENTER**.
- When you want to use the selected channel, use **+** or **-** to select "ADD" and press **ENTER**.

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

Preparation:

- Turn ON the TV and set it to the video input mode.
- Select "**OTHER**". For the procedure, see steps 1 to 3 in "Using the SETUP MENU".



JPEG INTERVAL

You can select the interval time for JPEG slide show. Select "JPEG INTERVAL" and select the switching interval between images from the list below.

OFF: The slide show mode is not used.

5 SEC: The interval is set to 5 seconds.

10 SEC: The interval is set to 10 seconds.

15 SEC: The interval is set to 15 seconds.



Glossary

auto chapter

Feature that automatically makes chapter marks on a DVD disk 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.

CATV

Acronym for Community Antenna Television

chapter

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

CM Skip

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

copy guard

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

DNR

Acronym for Digital Noise Reduction. Technology that reduces screen noise and flickering to produce clear images.

DVD menu

Menu recorded on a DVD video that enables the user to select subtitle language, dubbing, etc.

finalize

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

Interlaced scanning

Technology that alternately displays odd-numbered scanning lines and even-numbered scanning lines. Also called "525I", "I" meaning "interlace".

letter box

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

pan scan

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

parental control

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

General parental control settings

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

play list

User-created list of titles based on each program.

Progressive scanning

Technology that simultaneously displays odd-numbered scanning lines and even-numbered scanning lines from top to bottom. Also called "525P", "P" meaning "progressive".

SETUP MENU

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

slideshow

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

subtitle language

Language used for subtitles of movies, etc. A DVD can record subtitles in up to 32 languages. Viewers can watch in a language of their choosing.

title

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

title menu

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

top menu

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

track

A song on a music CD is called a "track".

virtual surround

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



Discs

A-B Repeat Playback

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

One touch repeat

If ONE TOUCH REPEAT is pressed during playback, playback returns to a point 10 sec earlier and resumes.

region number

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

edit program

Feature that deletes unnecessary scenes of a title recorded on a disk.

BROWSER screen

Screen that appears when TITLE MENU is pressed during MP3, WMA or JPEG playback.

TRACK DATA screen

Screen that appears when TITLE MENU is pressed during playback of a music CD.



Language code list

Enter the appropriate code number for the initial settings "DVD MENU", "AUDIO" and/or "SUBTITLE" (see page 73).

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.	<ul style="list-style-type: none">• Make sure the power cord is plugged in.• Try another AC outlet.• Power is off, check fuse or circuit breaker.• Unplug unit, then plug it back in.• Select the DVD or VCR mode before operating.	5 — — 5 18,34
No picture.	<ul style="list-style-type: none">• Antenna connection is not correct or antenna cable is disconnected.• The video channel is not in the correct position or the TV is not set to the video channel 3 or 4.• Check the unit is connected correctly.• The video input selector of the TV is not set to VIDEO. Set to VIDEO (or equivalent).• Channel is set to the external mode.	12~15 18 12~17 — —
No sound.	<ul style="list-style-type: none">• Check the unit is connected correctly.• Check the input selector of the amplifier is set properly.• The unit is in the Special playback mode.	12~17 — 24,36
The remote control does not function.	<ul style="list-style-type: none">• Aim at the remote control at the remote sensor.• Operate within Approx. 5 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.	11
No CATV reception	<ul style="list-style-type: none">• Check all CATV connections.• Station or CATV system problems, try another station.	14,15
VCR		
TV recording does not work.	<ul style="list-style-type: none">• The erase prevention tab of the video cassette is broken off.• The unit is in the external input mode.	22,26
Timer recording does not work.	<ul style="list-style-type: none">• The time is not set correctly.• The recording start/end time is not set correctly.• TIMER REC has not been pressed (⏻ is not lit).	19 29 29
Noise bars on screen.	<ul style="list-style-type: none">• Tracking adjustment beyond range of automatic tracking circuit. Try Manual tracking adjustment.• Video heads are dirty.• The tape is worn or damaged.	24 55 —
DVD		
Display is not shown in your language.	<ul style="list-style-type: none">• Select proper language in the menu options.	34
Playback doesn't start.	<ul style="list-style-type: none">• No disc is inserted.• The disc may be dirty. Clean up the disc.• The unit cannot play DVD-ROMs, etc.	35 33 33
Stopping playback, search, slow-motion play, repeat play, or program play, etc. cannot be performed.	<ul style="list-style-type: none">• Some discs may not do some of the functions.	—



Problems and troubleshooting / Video head cleaning

SYMPTOMS	POSSIBLE SOLUTIONS	PAGE
No picture, or the screen is blurred or divided into two parts.	<ul style="list-style-type: none"> The S-VIDEO/COMPONENT selector is not set correctly. The progressive scanning mode is active through the unit is connected to a TV via the VIDEO OUT jack. 	16 52
No 4:3 (16:9) picture	<ul style="list-style-type: none"> The setup does not match your TV. 	49
No on-screen display	<ul style="list-style-type: none"> Select Display On. 	50
No surround sound	<ul style="list-style-type: none"> The setup does not match your stereo system. 	17
The unit or remote operation key is not functioning.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> Check the Parental setup. 	44
Audio soundtrack and/or subtitle language is not changed when you play back a DVD.	<ul style="list-style-type: none"> Multilingual language is not recorded on the DVD disc. 	47,48
No subtitle	<ul style="list-style-type: none"> Some discs have no subtitles. Subtitles are cleared. Press SUB TITLE. 	42,47
Angle cannot be changed.	<ul style="list-style-type: none"> Multi-angles are not recorded on the DVD disc. 	43
⚡ appears on the screen.	<ul style="list-style-type: none"> 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.



Good Picture



Snowy Picture

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

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



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