

Owner's Manual

DVD Recorder with Video Cassette Recorder

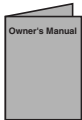
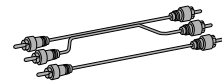
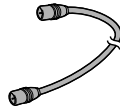
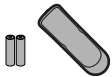
SRDV495



INSTRUCCIONES EN ESPAÑOL INCLUIDAS.

Supplied Accessory

- Remote control (NB118UD) with two AA batteries
- RF cable (WPZ0901TM002)
- Audio/Video cables (WPZ0102TM015 or WPZ0102LTE01)
- Owner's Manual (1VMN20233)
- Quick Use Guide (1VMN20319)
- DVD-R Blank Media (3 discs)



If you need additional operating assistance after reading this owner's manual, please call **TOLL FREE : 1-800-968-3429**

Before you use this unit, you need to complete connections. Refer to "Connections" on pages 10-12.

To record a program easily, refer to "Easy DVD recording" on pages 54-55 after connections are completed.
(You CANNOT copy any copyright protected DVD disc with this unit.)

Before you start

Precautions

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



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



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



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

CAUTION:

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

Laser Safety

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

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

CAUTION: VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED. DO NOT STARE INTO BEAM.

LOCATION: INSIDE, NEAR THE DECK MECHANISM.

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

RADIO-TV INTERFERENCE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1) Reorient or relocate the receiving antenna.
- 2) Increase the separation between the equipment and receiver.
- 3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4) Consult the dealer or an experienced radio/TV technician for help.

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

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

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

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

A NOTE ABOUT RECYCLING

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

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

Make your contribution to the environment!!!

- Used up batteries do not belong in the dust bin.
- You can dispose of them at a collection point for used up batteries or special waste. Contact your council for details.



For Customer Use:


Read carefully the information located at the back of this unit and enter below the Serial No.

Retain this information for future reference.

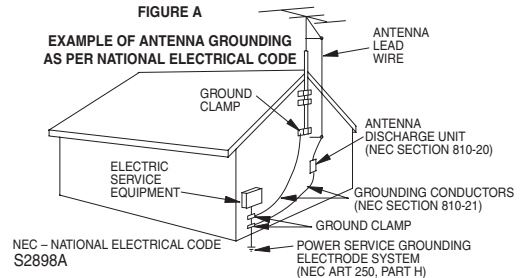
Model No. _____

Serial No. _____

Important Safeguards

1. Read Instructions - All the safety and operating instructions should be read before the appliance is operated.
2. Retain Instructions- The safety and operating instructions should be retained for future reference.
3. Heed Warnings - All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow Instructions - All operating and use instructions should be followed.
5. Cleaning - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
EXCEPTION: A product that is meant for uninterrupted service and, that for some specific reason, such as the possibility of the loss of an authorization code for a CATV converter, is not intended to be unplugged by the user for cleaning or any other purpose, may exclude the reference to unplugging the appliance in the cleaning description otherwise required in item 5.
6. Attachments - Do not use attachments not recommended by the product manufacturer as they may cause hazards.
7. Water and Moisture- Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
8. Accessories - Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the appliance should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
PORTABLE CART WARNING
(Symbol provided by RETAC)

S3125A
9. Ventilation - Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
10. Power Sources - This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
11. Grounding or Polarization - This product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
12. Power Cord Protection - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
13. Outdoor Antenna Grounding - If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA No. 70, provides information with regard to proper grounding of the mast and sup-

porting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. (Fig. A)



14. Lightning - For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
15. Power Lines - An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
16. Overloading - Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
17. Object and Liquid Entry - Never push objects of any kind into this product through any openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
18. Servicing - Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
19. Damage Requiring Service - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a. When the power-supply cord or plug is damaged.
 - b. If liquid has been spilled, or objects have fallen into the product.
 - c. If the product has been exposed to rain or water.
 - d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
 - e. If the product has been dropped or damaged in any way.
 - f. When the product exhibits a distinct change in performance this indicates a need for service.
20. Replacement Parts - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
21. Safety Check - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
22. Heat - This product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

Before you start

Precautions (cont'd)

Installation Location

For safety and optimum performance of this unit:

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

Avoid the Hazards of Electrical Shock and Fire

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

Moisture Condensation Warning

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

About Copyright

Unauthorized copying, broadcasting, public performance and lending of discs are prohibited.

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










Notice for progressive scan output

Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of progressive scan picture problems, it is recommended that the user switch the connection to the interlaced video output.

Symbol in this owner's manual

Many functions of this unit are depending on the disc type or the recording mode.

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

Symbol	Description
	Available to DVD Video discs
	Available to DVD-RW in Video mode
	Available to DVD-RW in VR mode
	Available to DVD-R discs
	Available to Audio CDs
	Available to CD-R/RW discs with MP3 files
	Available to VHS tapes Use only VHS cassettes marked with this unit.
First: (Press:) 	Indicates that you need to select the DVD mode by pressing DVD button on the remote control before proceeding next step.
First: (Press:) 	Indicates that you need to select the VCR mode by pressing VCR button on the remote control before proceeding next step.

Maintenance

SERVICING

- Please refer to relevant topics on the Troubleshooting Guide on pages 98-100 before returning the product.
- When this unit becomes inoperative, do not try to correct the problem by yourself. There are no user-serviceable parts inside. Turn off, unplug the power plug, and please call our help line mentioned on the front page to locate an Authorized Service Center.

CLEANING THE CABINET

- Use a soft cloth slightly moistened with a mild detergent solution. Do not use a solution containing alcohol, spirits, ammonia or abrasive.

CLEANING DISCS

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

CLEANING THE DISC LENS

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

DISC HANDLING

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

AUTO HEAD CLEANING

- Automatically cleans video heads as you insert or remove a cassette, so you can see a clearer picture.
 - Playback picture may become blurred or interrupted while the TV program reception is clear. Dirt accumulated on the video heads after a long period of use, or the usage of rental or worn tapes can cause this problem. If a streaky or snowy picture appears during playback, the video heads in the unit may need to be cleaned.
1. Please visit your local electronics retailer and purchase a good quality VHS Video Head Cleaner.
 2. If a Video Head Cleaner does not solve the problem, please call our help line mentioned on the front page to locate an Authorized Service Center.

NOTES:

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

Before you start

Features

This unit not only plays DVD's, CDs and VHS tapes but also offers features for you to record to DVD discs and edit them. The following features are offered with this unit.

Recording

DVD mode | VCR mode

This unit is compatible with both DVD-RW, which is rewritable, and DVD-R, which is available for recording once. Also, this unit allows you to record to the video cassette tape. You can choose either one for your convenience.

Up to 8 programs recording:

You can program the unit to record up to 8 programs, up to a year in advance. Daily or weekly program recordings are also available.

One-touch timer recording:

You can easily set a recording time as you prefer. Every time the REC/OTR button on the remote control or the RECORD button on the front panel pressed during recording, the recording time will be increased by 30 minutes up to 8 hours. The recording automatically stops when the recording time you set is reached.

Dubbing mode:

You can copy a DVD disc to a videotape or copy a videotape to a DVD disc. This function will be possible only if the DVD disc and the videotape are not copy protected.

DVD mode

REC MONITOR:

You can confirm the picture quality for recording which you set.

If you want to change the recording speed, press REC SPEED button to set the desired recording mode.

Automatic Chapter marker setting:

Chapter markers will be put on recordings as you set in SETUP menu before attempting to record.

Automatic Title menu making:

The unit makes title menus automatically when finalizing the disc which are recorded in Video mode.

Automatic PLAYLIST making (VR mode):

A Playlist will be prepared from an Original list, so that you can edit titles in a Playlist as you prefer. An Original list is kept as it is.

Play

DVD mode

Theater surround sound in your home:

When connecting the unit to an amplifier or a decoder which is compatible with Dolby Digital or DTS, you are able to experience the theater surround sound from discs which contain tracks recorded in Dolby Digital format.

Quick search for what you want to watch:

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

Start to play from Original and Playlist (VR mode):

Title playing is available from either an Original list or Playlist.

VCR mode

Quick search for what you want to watch:

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

Editing

DVD mode

Setting/Clearing chapter markers:

You can easily add chapter markers anywhere in your recordings for easy editing. (VR mode)

Making your own Playlist:

With the original remaining as it is, you can edit titles on various playlist as you prefer.

Putting names on titles.

Setting pictures for thumbnails.

Setting/clearing chapter markers.

Deleting parts of titles, etc.

Protecting titles:

To avoid editing or erasing titles, the protect function is useful when it is ON in the original list.

Compatibility

DVD mode

Available for playing discs recorded in Video mode on a regular DVD player (Video mode):

Discs recorded in the Video mode can be played on regular DVD players, including computer DVD drives compatible with DVD-Video playback*.

▲ Note:

You will need to finalize the discs recorded in Video mode to play in other DVD players.

* DVD-Video Format (Video mode) is a new format for recording on DVD-R/RW discs that was approved by the DVD Forum in 2000. Adoption of this format is optional for manufacturers of DVD playback devices and there are DVD-Video players, DVD-ROM drives or other DVD playback devices that do not play DVD-R/RW discs recorded in the DVD-Video Format.

Others

Progressive Scan system

Unlike conventional interlace scanning, the progressive scan system provides less flickering and a smoother appearance without visible scan lines.

▲ Note:

You will need to finalize the discs recorded in Video mode to play in other DVD players.

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

"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

Before you start

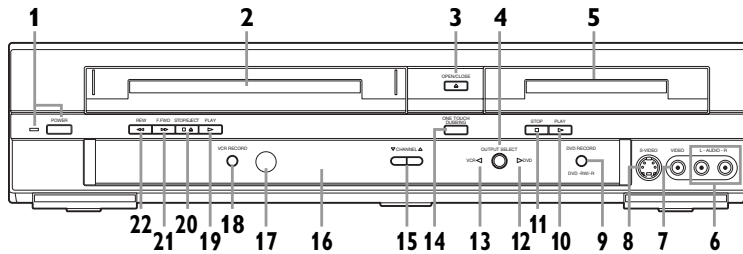
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Before you start

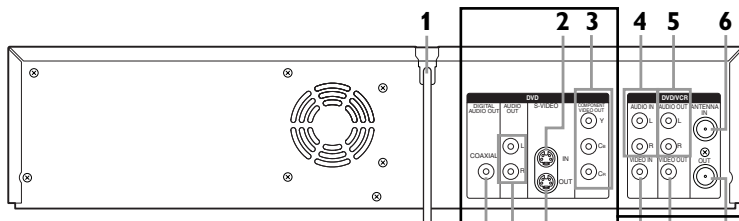
Functional overview

Front Panel



1. **POWER button / indicator (DVD/VCR)**
Press to turn the unit on and off.
If timer programmings have been set, press to set the unit in timer-standby mode. Press to cancel the timer standby mode and turn the unit on.
The light besides the POWER button lights up when power is on.
2. **Cassette compartment (VCR)**
Insert a tape here.
3. **▲ OPEN/CLOSE button (DVD)**
Press to open or close the disc tray.
4. **OUTPUT SELECT button (DVD/VCR)**
Press to select the component you wish to operate.
5. **Disc tray (DVD)**
Place a disc on the disc tray when it's open.
6. **AUDIO input jacks (LINE2) (DVD/VCR)**
Use to connect external equipment with standard audio cables.
7. **VIDEO input jack (LINE2) (DVD/VCR)**
Use to connect external equipment with a standard video cable.
8. **S-VIDEO input jack (LINE2) (DVD only)**
Use to connect the S-Video output of external equipment with an S-Video cable (not supplied).
9. **DVD RECORD button (DVD)**
Press once to start recording.
Press repeatedly to set the time for One-Touch Recording.
10. **PLAY button (DVD)**
Press to start or resume play.
11. **STOP button (DVD)**
Press to stop playback or recording.
Press to cancel the proceeding timer recording in DVD.
12. **DVD SELECT indicator**
This indicator lights up when the DVD output mode is selected.
13. **VCR SELECT indicator**
This indicator lights up when the VCR output mode is selected.
14. **ONE TOUCH DUBBING button (DVD/VCR)**
Press to start VCR to DVD or DVD to VCR duplication you set in the SETUP menu.
15. **CHANNEL ▼ / ▲ button (DVD/VCR)**
Press to change the channel up and down.
16. **Display (DVD/VCR)**
Refer to "Front Panel Display Guide" on page 15.
17. **Remote control sensor (DVD/VCR)**
Receive signals from your remote control so that you can control the unit from a distance.
18. **VCR RECORD button (VCR)**
Press once to start a recording. Press repeatedly to set the time for One-Touch Recording.
19. **PLAY button (VCR)**
Press to start playback.
20. **STOP/EJECT button (VCR)**
EJECT button-Press to remove the tape from the unit.
STOP button-Press to stop the tape playback.
Press to cancel the proceeding timer recording in VCR.
21. **FFWD button (VCR)**
Press to rapidly advance the tape, or view the picture rapidly in forward during playback. (Forward Search)
22. **REW button (VCR)**
Press to rewind the tape, or to view the picture rapidly in reverse during playback mode. (Rewind Search)

Rear Panel



1. **AC Power Cord (DVD/VCR)**
Connect to a standard AC outlet to supply power to this unit.
2. **S-VIDEO IN jack (LINE1) (DVD only)**
Use to connect the S-Video output of external equipment with an S-Video cable (not supplied).
3. **COMPONENT VIDEO OUT jacks (DVD only)**
Use to connect a TV monitor with component video inputs with component video cables (not supplied).
4. **AUDIO IN jacks (LINE1) (DVD/VCR)**
Use to connect external equipment with standard audio cables.
5. **AUDIO OUT jacks (DVD/VCR)**
Use to connect a TV monitor, AV receiver or other equipment with standard audio cables.
6. **ANTENNA IN jack (DVD/VCR)**
Use to connect an antenna.
7. **ANTENNA OUT jack (DVD/VCR)**
Use to connect an antenna cable to pass the signal from the ANTENNA IN to your TV monitor.
8. **VIDEO OUT jack (DVD/VCR)**
Use to connect a TV monitor, AV receiver or other equipment with a standard video cable.
9. **VIDEO IN jack (LINE1) (DVD/VCR)**
Use to connect external equipment with a standard video cable.
10. **S-VIDEO OUT jack (DVD only)**
Use to connect the S-Video input of a TV monitor, AV receiver or other equipment with an S-Video cable (not supplied).
11. **AUDIO OUT jacks (DVD only)**
Use to connect a TV monitor, AV receiver or other equipment with standard audio cables.
12. **COAXIAL DIGITAL AUDIO OUT jack (DVD only)**
Use to connect an AV receiver, Dolby Digital decoder, DTS decoder or other equipment with a coaxial digital input jack with a digital coaxial cable (not supplied).

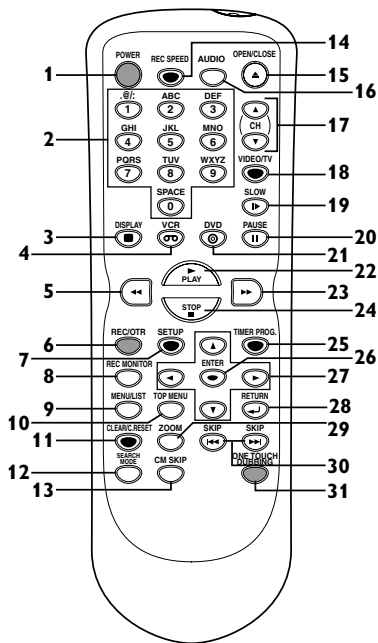
• These jacks are useful only in DVD mode.

Note: Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the unit.

Before you start

Functional overview (cont'd)

Remote Control



1. **POWER button (DVD/VCR)**
Press to turn the unit on and off. If timer programmings have been set, press to set the unit in timer-standby mode. Press to cancel the timer standby mode, then turn the unit on.
2. **Number buttons (DVD/VCR)**
Press to select channel numbers. Press to select a title/chapter/track on display or a TV channel.
Also press to enter values for the settings in the SETUP menu.
3. **DISPLAY button (DVD/VCR)**
Press to display or change the on-screen display.
4. **VCR button**
Press to allow the remote control to operate the VCR. Refer to page 9.
Press to select the VCR output mode.
5. **◀ button (DVD/VCR)**
 - DVD mode
During playback, press to play fast reverse or during pause, press to play slow reverse.
 - VCR mode
Press to rewind the tape or to view the picture rapidly in reverse during playback mode.
6. **REC/OTR button (DVD/VCR)**
Press once to start a recording. Press repeatedly to set the time for One-Touch Recording.

7. **SETUP button (DVD/VCR)**
Press to display the setup menu. During DVD playback, press and hold for more than 3 seconds to switch to the progressive video output or the interlaced.
8. **REC MONITOR button (DVD)**
Press to check the recording speed before attempting a recording.
9. **MENU/LIST button (DVD)**
Press to display the Disc menu. To change ORIGINAL and PLAYLIST on the TV screen. (VR mode only)
10. **TOP MENU button (DVD)**
Press to display the top menu.
11. **CLEAR/C.RESET button (DVD/VCR)**
 - DVD mode
Press to clear the password once entered, to cancel the programming for CD, to clear the selected marker number in the marker setup mode or to clear the program once entered in the timer recording setting mode, etc.
 - VCR mode
Press to reset the tape counter.
12. **SEARCH MODE button (VCR)**
To call up the index or time search menu.
13. **CM SKIP button (DVD)**
During playback, press to advance 30 seconds.
14. **REC SPEED button (DVD/VCR)**
Press to select the recording speed.
15. **OPEN/CLOSE ▲ button (DVD)**
Press to open or close the disc tray.
16. **AUDIO button (VCR)**
During playback of a HiFi video tape, press to change the AUDIO OUT setting to "HIFI" or "MONO".
17. **CH ▲ / ▼ buttons (DVD/VCR)**
 - DVD mode
Press to change the channel up and down.
 - VCR mode
Press to change the channel up and down.
Press to adjust tape tracking during playback or in slow motion. In still mode, you can adjust the picture if blurred vertically.
18. **VIDEO/TV button (DVD/VCR)**
Press to select VIDEO or TV mode.

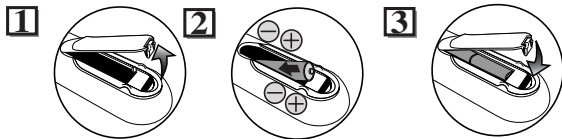
19. **SLOW button (VCR)**
During playback, press to view the video tape in slow motion.
20. **PAUSE II button (DVD/VCR)**
Press to pause play or recording.
21. **DVD button**
Press to allow the remote control to operate the DVD. Refer to page 9.
Press to select the DVD output mode.
22. **PLAY ► button (DVD/VCR)**
Press to start or resume play.
23. **▶▶ button (DVD/VCR)**
 - DVD mode
During playback, press to play fast forward.
Or when playback is paused, press to play slow forward.
 - VCR mode
Press to rapidly advance the tape or view the picture rapidly in forward during playback.
24. **STOP ■ button (DVD/VCR)**
Press to stop playback or recording.
25. **TIMER PROG. button (DVD/VCR)**
Press to display the timer program setting menu.
26. **ENTER button (DVD/VCR)**
Press to confirm or select menu items.
27. **▲ / ▼ / ◀ / ▶ buttons (DVD/VCR)**
Press to select items or settings.
28. **RETURN ↵ button (DVD/VCR)**
Press to return to the previously displayed menu screen.
29. **ZOOM button (DVD)**
During playback, press to enlarge the picture on the screen.
30. **SKIP ◀◀ button (DVD)**
During playback, press to skip to the previous chapter or track. Or during playback, press to play reverse step by step.
31. **SKIP ▶▶ button (DVD)**
During playback, press to skip to the next chapter or track. Or during playback, press to play forward step by step.
31. **ONE TOUCH DUBBING button (DVD/VCR)**
Press to start VCR to DVD or DVD to VCR duplication however you set in the SETUP menu.

Before you start

Functional overview (cont'd)

Installing batteries in the remote control

Install two AA batteries (supplied) matching the polarity indicated inside battery compartment of the remote control.



Note:

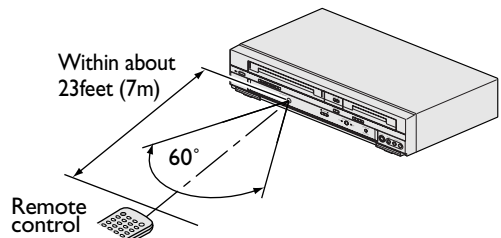
Incorrect use of batteries can result in hazards such as leakage and bursting. Please observe the following:

- Do not mix new and old batteries together.
- Do not use different kinds of batteries together, although they may look similar, different batteries may have different voltages.
- Make sure that the plus and minus ends of each battery match the indications in the battery compartment.
- Remove batteries from equipment that is not going to be used for a month or more.
- When disposing of used batteries, please comply with governmental regulations or environmental public instruction rules that apply in your country or area.
- Do not recharge, short-circuit, heat, burn or disassemble batteries.

Using a remote control

Keep in mind the following when using the remote control:

- Make sure that there is no obstacle between the remote control and the remote sensor on the unit.
- Use within the operating range and angle as shown.
- Remote operation may become unreliable if strong sunlight or fluorescent light is shining on the remote sensor of the unit.
- Remote control for different devices can interfere with each other. Avoid using remote control for other equipment located close to the unit.
- Replace the batteries when you notice a fall off in the operating range of the remote control.



VCR/DVD recorder Switching

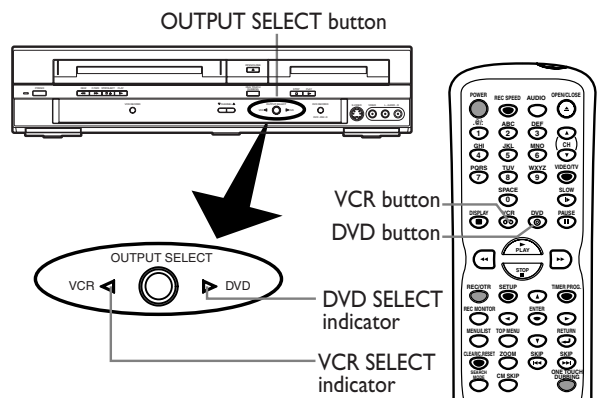
Because this product is a combination of a VCR and a DVD recorder, you must select first which component you wish to operate with the OUTPUT SELECT button.

VCR MODE

Press the **VCR button** on the remote control. (Verify that the VCR SELECT indicator is lit.)

DVD MODE

Press the **DVD button** on the remote control. (Verify that the DVD SELECT indicator is lit.)

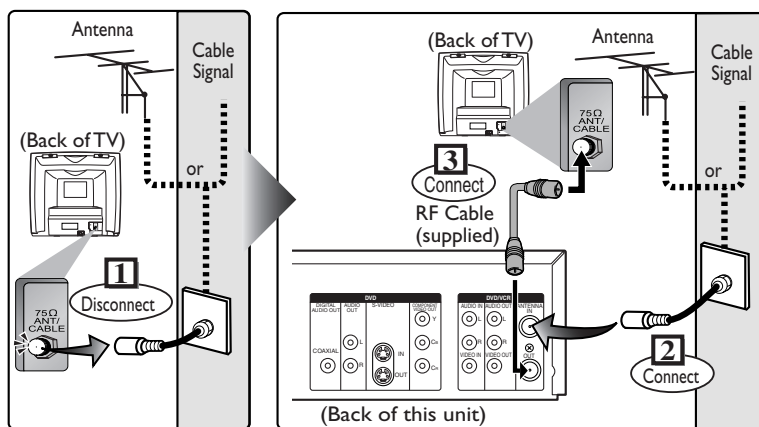


Note

- Pressing only the **OUTPUT SELECT button** on the front panel **DOES NOT** switch the mode of the remote control. You **MUST** select the correct mode on the remote control.
- Pressing the **SETUP** or the **TIMER PROG. button** switches the unit to the DVD mode.

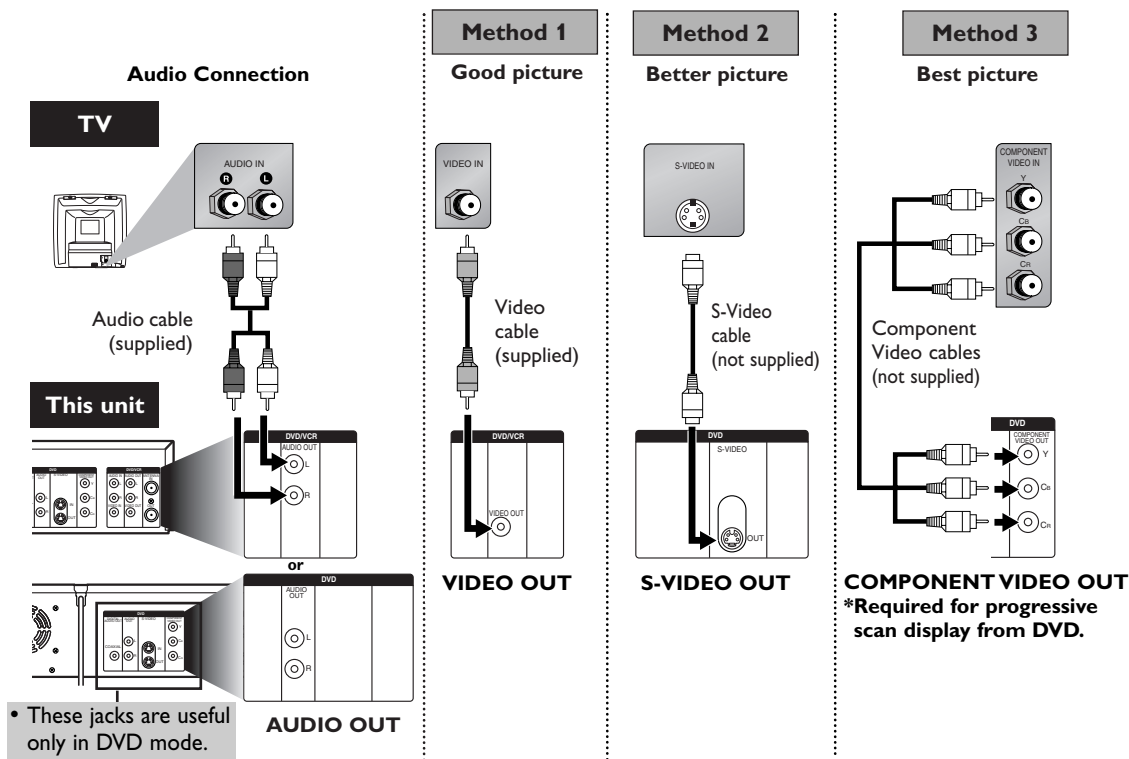
Connections

Connection to a TV



4 Plug in the AC power cord of this unit.

Make one of the following connections, depending on the capabilities of your existing equipment.



Note

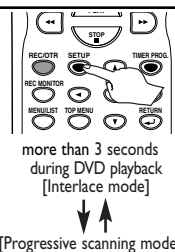
- Connect this unit directly to the TV. If the A/V cables are connected to a VCR, pictures may be distorted due to the copy protection system.
- Method 2 and method 3 are only useful in DVD mode.

If your TV is compatible with 480p progressive scanning and you want to enjoy that high quality picture:

You must select the connection Method 3 above and select progressive scanning mode. To set the mode, press and hold the SETUP button on the remote control for more than 3 seconds during DVD playback, so that "PSCAN" will appear on the display of this unit.

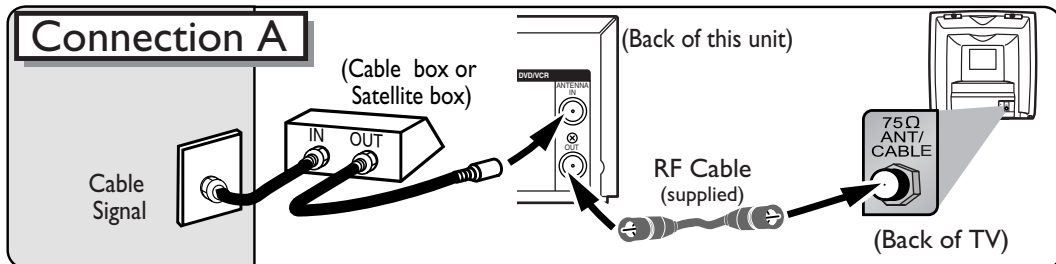
If your TV is not compatible with progressive scanning:

Press and hold the SETUP button on the remote control for more than 3 seconds during DVD playback, so that "PSCAN" on the display of this unit will disappear.



Connections

Connection to a cable box or satellite box

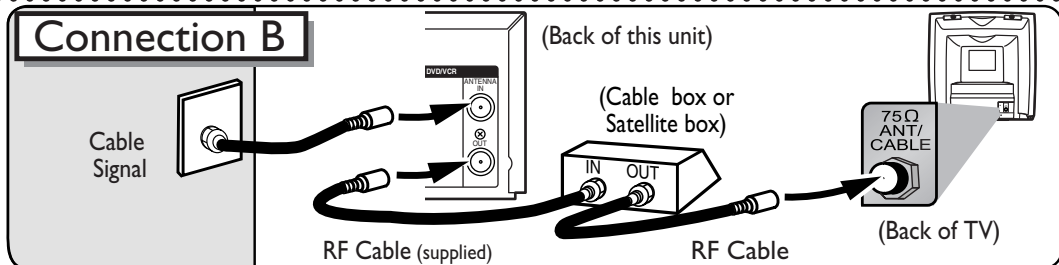


Select this connection when you want to view or record a scrambled channel. With this connection, channels cannot be changed on this unit. You can view or record **ONLY** the channels you have selected on the cable box or the satellite box.

- While you are recording, only the recorded channel can be viewed.

To select channels on the cable box or satellite box

- 1) Turn on this unit by pressing **POWER** button. The “**POWER**” indicator on the front panel will light up. Then, press the **CHANNEL** buttons to select channel 3 or 4 (the same channel as the output channel of the cable box or satellite box).
 - If noise appears on the TV screen, press **VIDEO/TV** button on the remote control.
 - If you use channel 4, you need to change this unit’s RF output to channel 4. Refer to “**RF converter output**” on page 24.
- 2) On the TV, select channel 3 or 4 (the same channel as you have selected at step 1).
- 3) On the cable box or satellite box, select the channel you want to view or record.



Select this connection when you want to change channels on this unit. With this connection, you may watch one channel while recording another.

- You may not view or record a scrambled channel.

To select channels on the cable box or satellite box

- 1) On the cable box or satellite box, select channel 3 or 4 (the same channel as this unit’s RF output channel.)
 - Refer to “**RF converter output**” on page 24.
- 2) On the TV, select the same channel as the output channel (3 or 4) of the cable box or satellite box.
- 3) Turn on this unit by pressing **POWER** button. The “**POWER**” indicator on the front panel will light up. Then select the channel you want to view or record.
 - If noise appears on the TV screen, press **VIDEO/TV** button on the remote control.

To playback a DVD disc or a tape

Before trying to playback DVD or tape you **MUST** follow step 1) to 2) above.

- Refer to “**Playback**” on pages 35-36, 50.

To view one channel while recording another

- 1) While you are recording on this unit, press **VIDEO/TV** button.
- 2) On the cable box or satellite box, select the channel you want to view.

Note to the Cable TV System Installer :

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

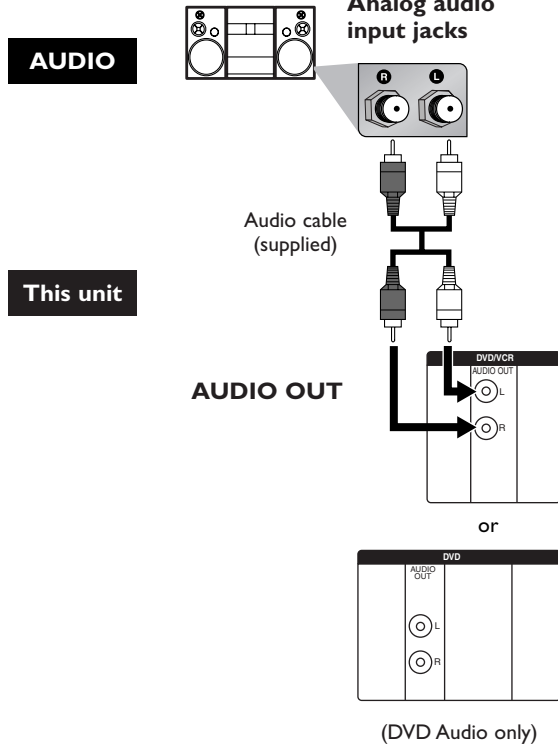
Connections

Connection to an Audio System

- Before changing the connections, all devices should be turned off.
- Refer to each owner's manual for further information on other devices.

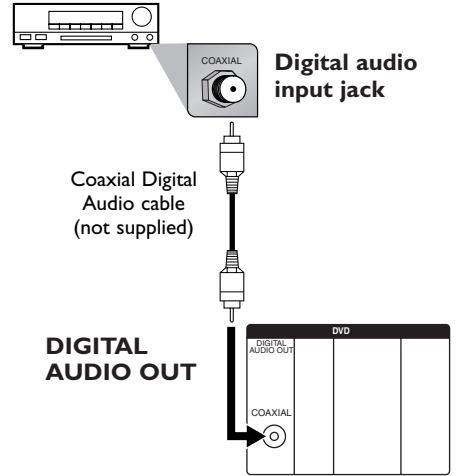
Method 1 (VCR/DVD Sound)

Stereo system



Method 2 (DVD Sound Only)

Receiver with Dolby Digital Decoder



Note

- If you connect this unit to a receiver with a Dolby Digital decoder and set “Dolby Digital” to “Stream” for the “Digital Out” setting in the SETUP menu. (Refer to pages 30-31.)
- If output is DTS encoded audio, connect to a DTS decoder and set “DTS” to “ON” for the “Digital Out” setting in the SETUP menu. (Refer to pages 30-31.)
- A Dolby Digital 5.1 channel surround format cannot be recorded as digital sound by an MD or DAT deck.
- Unless connected to a receiver with a Dolby Digital decoder or a DTS decoder, set “Dolby Digital” to “PCM” and “DTS” to “OFF” for the “Digital Out” setting in the SETUP menu. Playing a DVD using incorrect settings may generate noise distortion and may also damage the speakers. (Refer to pages 30-31.)
- Set “Dolby Digital” to “PCM” for the “Digital Out” setting in the SETUP menu for connecting to an MD deck or DAT deck. (Refer to pages 30-31.)
- By hooking this unit up to a receiver with a Multi-channel Dolby Digital decoder, you can enjoy high-quality Dolby Digital 5.1 channel surround sound as heard in movie theaters.

Getting started

Functional overview

Guide to On Screen Menus

The unit uses the following types of on screen menus for most operations. SETUP/DISC/CD menu, Title list, and DISPLAY menu, which allows you to change the playing status of disc during play. The DISPLAY menu also gives you some disc information for checking the status of the disc.

SETUP/DISC/CD menu

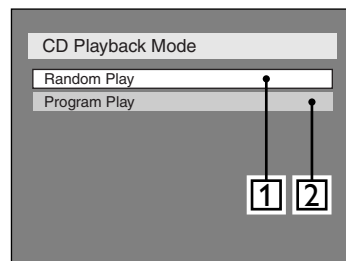
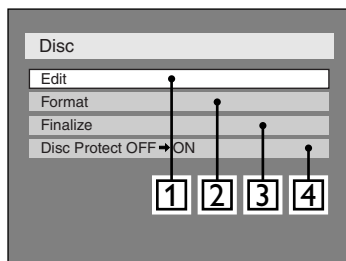
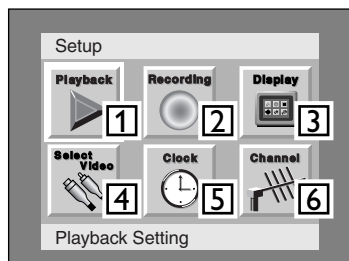
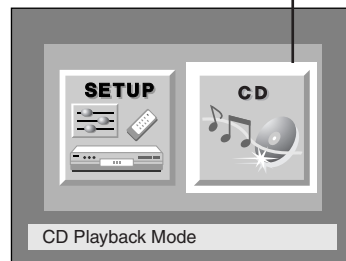
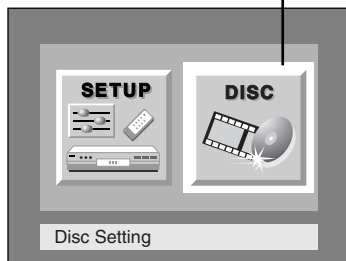
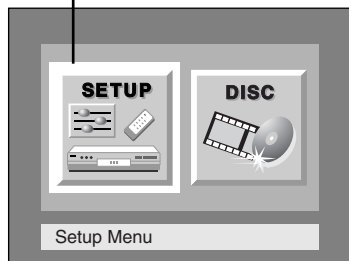
Press SETUP button to display the setup main menu, then choose either SETUP/DISC/CD by pressing ◀/▶ buttons. Then, press ENTER button to display each menu.

These menus provide entry to all main functions of the unit.

“SETUP” is available only in the Stop mode.

“DISC” is available only when a DVD-R/RW disc is inserted into the unit. When a DVD-Video disc (commercially available), a new DVD-R disc or the finalized DVD-R disc is inserted into the unit, you cannot select “DISC”.

“CD” can only be selected when an Audio CD disc or a CD-R/RW disc with MP3 files is inserted into the unit.



1. Playback:

To set up the DVD/VCR to your preference.

2. Recording:

To set up the DVD/VCR to record to discs or tapes.

3. Display:

To set up the OSD screen of the DVD/VCR.

4. Select Video: (L1 or L2)

To choose a line input from external video products.

5. Clock:

To set up the clock of the unit as you need.

6. Channel:

To preset the TV channels.

1. Edit:

Turns on a title list, (When a disc with VR mode is inserted, 'Original' or 'PlayList' is available.), which shows the recorded titles on the disc.

2. Format:

Allows you to erase all of the recorded content on the disc. The disc will be completely blank.

3. Finalize:

Allows you to finalize a disc containing recorded titles.

4. Disc Protect (VR mode only):

Allows you to protect a disc from accidental editing or recording.

1. Random Play:

To activate the random CD tracks playback.

2. Program Play (Audio CD only):

To activate the programmed CD tracks playback feature.

▲ You will need to finalize the discs recorded in video mode to play in other DVD players.

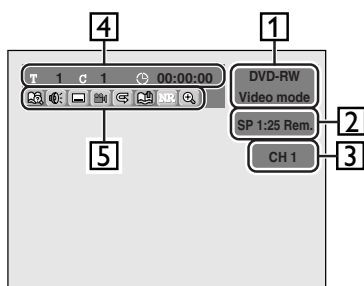
DISPLAY menu

DVD mode

First: 

Press DISPLAY button to call up the display menu. This menu will give you the information on the playing disc. Some operations are available while disc is playing.

Details are on page 34.











1. Indicates the disc type and the format mode.

▲ Note:

In some descriptions on this manual, only one disc type is indicated as an example.

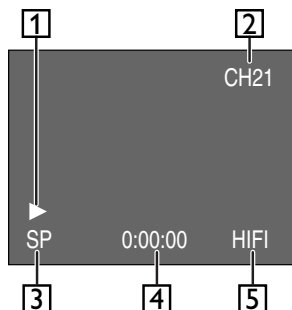
2. Indicates the recording mode and possible recording time left.
3. Indicates the current channel number.
4. Indicates title number, chapter number and the time elapsed of disc play.
5. Icon Description:

-  : Search
-  : Audio
-  : Subtitle
-  : Angle (except VR mode)
-  : Repeat
-  : Marker
-  : Noise Reduction
-  : Zoom

VCR mode

First: 

Press DISPLAY button to call up the display menu.

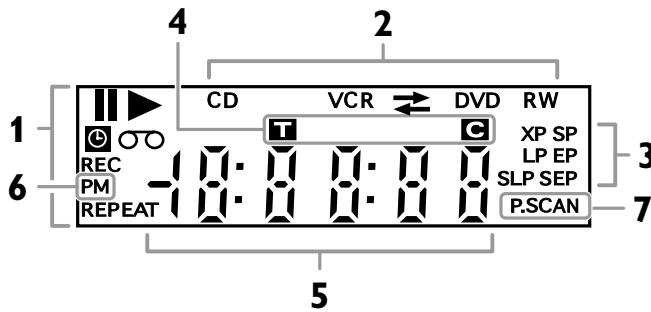


1. Playback status of the current tape.
2. Indicates the current channel number and an audio status of the program.
3. Indicates the recording speed.
4. Indicates the Tape Counter.
5. Audio status of the current tape.

Getting started

Functional overview (cont'd)

Front Panel Display Guide



1. Current status of the unit

- II : Appears when disc/tape play is paused.
- ▶ : Appears when playing a disc/tape.
- ⌚ : Appears when timer programming has been set.
- REC : Appears during recording process.
- REPEAT : Appears when repeat playback is turned on.
- ⊞ : Appears when a tape is in the unit.

2. Disc type and Current status of the unit

- CD : Appears when an audio CD or a disc with MP3 files is inserted in the DVD/VCR.
- DVD : Appears when a DVD disc is inserted in the DVD/VCR. Appears when a DVD timer recording is proceeding.
- DVD R : Appears when a DVD-R disc is inserted in the DVD/VCR.
- DVD RW : Appears when a DVD-RW disc is inserted in the DVD/VCR.
- VCR : Appears when a VCR timer recording is proceeding. Appears when VCR is in the timer recording stand-by mode.
- VCR→DVD : Appears during VCR to DVD duplication process.
- VCR←DVD : Appears during DVD to VCR duplication process.

3. Recording speed

Indicates the recording speed of the disc or the tape.

4. Title/Track and Chapter mark

- T : Appears when indicating a title/track number.
- C : Appears when indicating a chapter number.

5. Displays the following

- Playing time / remaining time
- Current title / chapter / track number
- Recording time
- Clock
- Channel number
- VCR tape counter
- OTR remaining time

6. PM : Appears when the current time is in the 'pm' portion of the day.

7. P.SCAN :

Appears when the progressive scan video output is activated.

Display message

1



2



3



4



1. Appears when the disc tray is opening.
2. Appears when the disc tray is closing or closed.
3. Appears when a disc is loading inside the DVD/VCR.
4. Appears when data is recording onto the disc.

Getting started

Channel settings

It is recommend that you preset available channels in your area using "Auto Preset" in the Channel Preset of the SETUP menu.

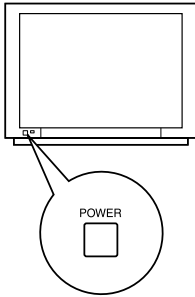
Presetting channels automatically

1

Press **POWER** button to turn on the unit.

2

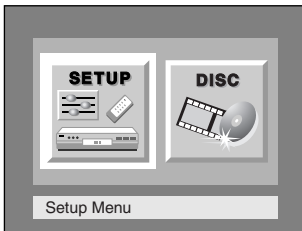
Turn the TV on and be sure to select the input to which the DVD/VCR is connected.



3

Press **SETUP** button to display **SETUP/DISC** menu. **SETUP/DISC** menu will appear.

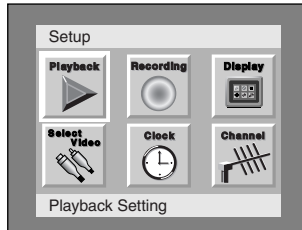
Screen:



4

Select "**SETUP**" using **◀/▶** buttons, then press **ENTER** button.

SETUP menu will appear.



5

Select "**Channel**" using **▲/▼** / **◀/▶** buttons, then press **ENTER** button.

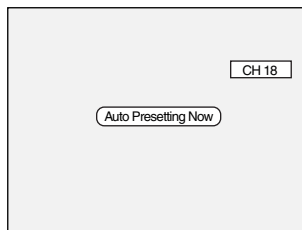
Channel Preset menu will appear.



6

Select "**Auto Preset**" using **▲/▼** buttons, then press **ENTER** button.

The unit will begin scanning channels available in your area.

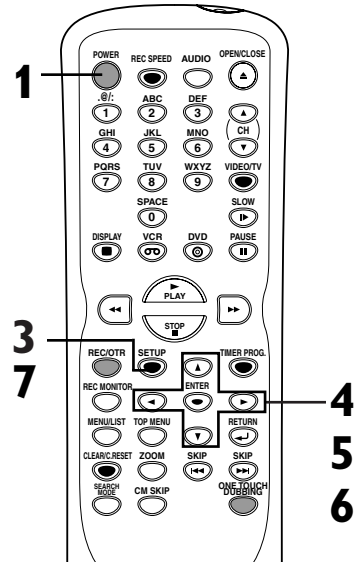


This may take a few minutes to complete.

7

Press **SETUP** button to exit.

• You can select only the channels memorized in this unit by using the **CHANNEL** buttons.



To select a channel

You can select a channel by directly entering channel using the Number buttons on the remote control.

Notes for using the Number buttons:

- When selecting cable channels which are higher than 99, enter channel numbers as a three-digit number. (For example: 117, press 1, 1, 7)
- You must precede single-digit channel numbers with a zero (For example: 02, 03, 04 and so on).
- You can select the line input mode ("L1" or "L2"). To select "L1" by pressing [0],[0],[1]. To select "L2" by pressing [0],[0],[2]. Details are on page 68.

Note

- If the auto presetting is cancelled during presetting, some channels not yet preset may not be received.
- The selection will depend on how you receive the TV channels.

To cancel the auto presetting during scanning:

Press **RETURN** button or **SETUP** button to cancel.

Getting started

Channel settings (cont'd)

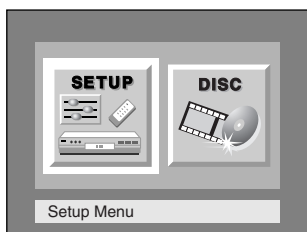
Adding/deleting channels

The channels you no longer receive or seldom watch can be deleted from the memory. You also may add channels into memory.

1

Press **SETUP** button to display **SETUP/DISC** menu. **SETUP/DISC** menu will appear.

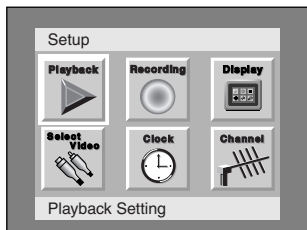
Screen:



2

Select "**SETUP**" using **◀/▶** buttons, then press **ENTER** button.

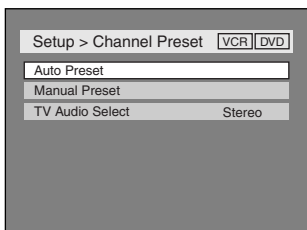
SETUP menu will appear.



3

Select "**Channel**" using **▲ / ▼** / **◀ / ▶** buttons, then press **ENTER** button.

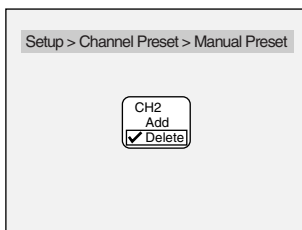
Channel Preset menu will appear.



4

Select "**Manual Preset**" using **▲ / ▼** buttons, then press **ENTER** button.

Manual Preset menu will appear.

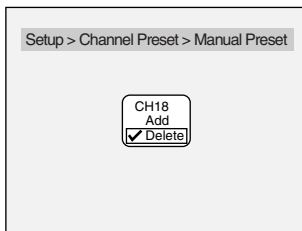


5

Select the channel number to add or delete.

Press **◀** button to move to a lower channel number.

Press **▶** button to move to a higher channel number.



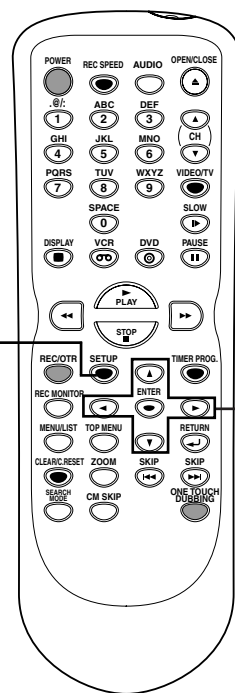
6

Select "**Add**" or "**Delete**" using **▲ / ▼** buttons, then press **ENTER** button.

The channel number will be added or deleted from the channel memory. Then next channel number will appear so that you can continue adding or deleting channels.

7

Press **SETUP** button to exit.



Getting started

Setting the clock

Set the clock before you try timer recording. If a Public Broadcasting Station (PBS) is available in your area, follow Auto Clock Setting below. If not, follow Manual Clock Setting on pages 19-20.

Auto Clock Setting

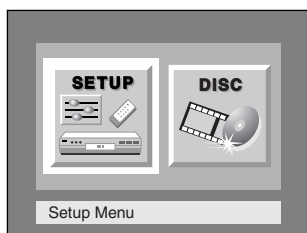
Make sure

- The antenna/cable TV connections are correct.
- If this unit is connected to a Cable Box or Satellite Box, select the local PBS station on the box to set the clock automatically.

1

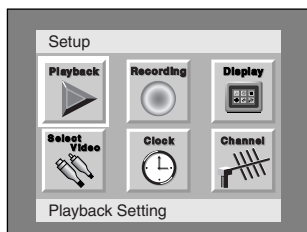
Press **SETUP** button to display **SETUP/DISC** menu. SETUP/DISC menu will appear.

Screen:



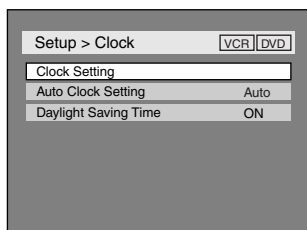
2

Select "**SETUP**" using **◀/▶** buttons, then press **ENTER** button. SETUP menu will appear.



3

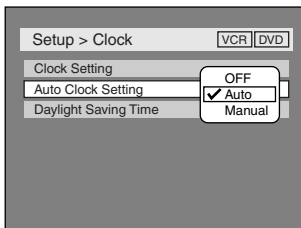
Select "**Clock**" using **▲/▼/◀/▶** buttons, then press **ENTER** button. Clock menu will appear.



4

Select "**Auto Clock Setting**" using **▲/▼** buttons, then press **ENTER** button.

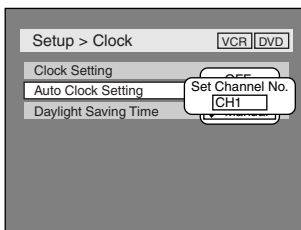
Option window will appear.



5

• If you do not know your PBS channel number, select "**Auto**" using **▲/▼** buttons, then press **ENTER** button and proceed to step 6.

• If you know your PBS channel number, select "**Manual**" using **▲/▼** buttons, then press **ENTER** button.



Enter your PBS channel number using **Number** or **▲/▼** buttons, then press **ENTER** button.

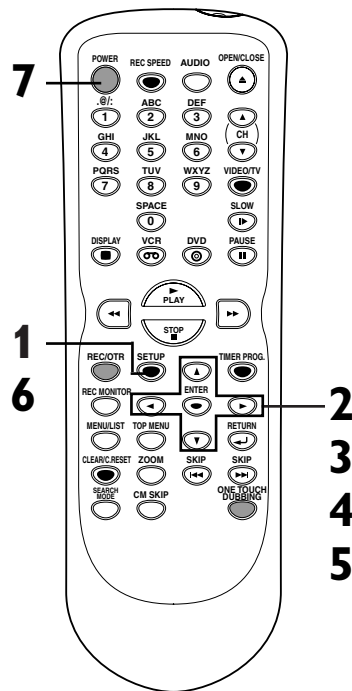
6

Press **SETUP** button to exit.

7

Press **POWER** button to turn off the unit.

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



Note : Clock Set

- The clock may set itself automatically after you connect the antenna/cable signal to this unit and plug in the power cord. In this case, the current time will appear on the display on the front panel.
- If the current time is not displayed or the displayed time is not correct, set the clock manually. (See Next Page.)

Getting started

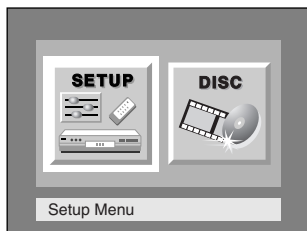
Setting the clock (cont'd)

Manual Clock Setting

1

Press **SETUP** button to display **SETUP/DISC** menu. **SETUP/DISC** menu will appear.

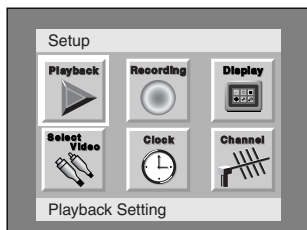
Screen:



2

Select "**SETUP**" using **◀/▶** buttons, then press **ENTER** button.

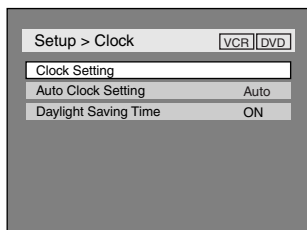
SETUP menu will appear.



3

Select "**Clock**" using **▲/▼/◀/▶** buttons, then press **ENTER** button.

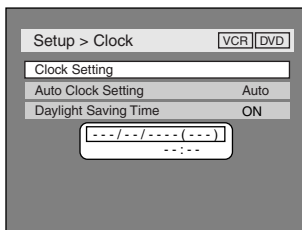
Clock menu will appear.



4

Select "**Clock Setting**" using **▲/▼** buttons, then press **ENTER** button.

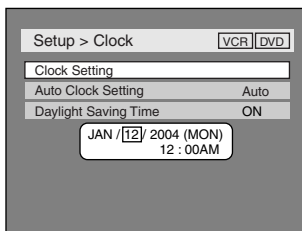
A clock setting window will appear.



Press **ENTER** button again. Default date will appear.

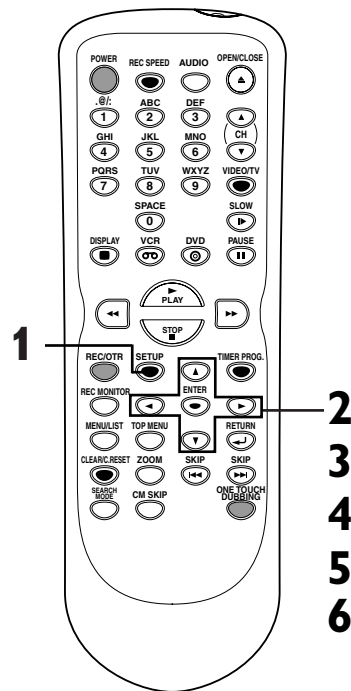
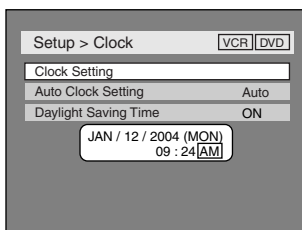
5

Enter the date (month / day / year) using **▲/▼** buttons. Press **◀/▶** buttons to move the cursor.



6

Enter the time (hour / minute) using **▲/▼** buttons. Press **◀/▶** buttons to move the cursor.



Note : In Time of Power Loss

- Your clock setting will be lost if either there is a power failure or this unit has been unplugged for more than 30 seconds when you set the clock manually.

Instructions continue on page 20.

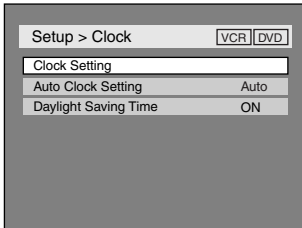
Getting started

Setting the clock (cont'd)

7

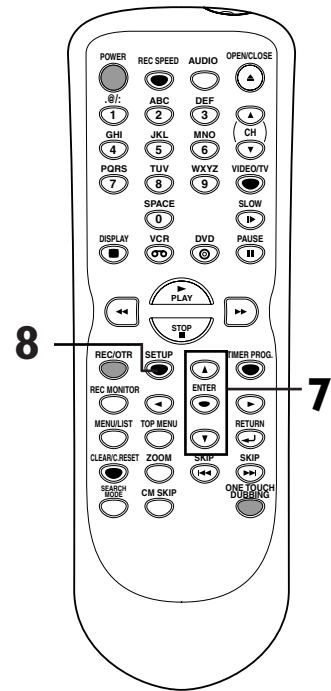
Press **▲ / ▼** buttons to select **AM** or **PM**, then press **ENTER** button.

Clock menu will appear, then the settings will be activated.



8

Press **SETUP** button to exit. Although seconds are not displayed, they begin counting from zero.



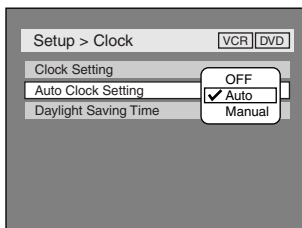
When "Auto Clock Setting" is selected to "Auto" or "Manual", change it to "OFF" as follows:

Repeat steps (1) to (3) in "Manual Clock Setting".

4

Select "Auto Clock Setting" using **▲ / ▼** buttons, then press **ENTER** button.

Option window will appear.

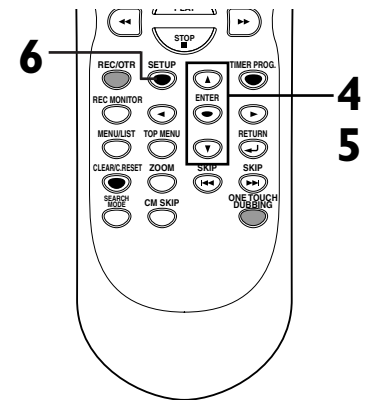


5

Select "OFF" using **▲ / ▼** buttons, then press **ENTER** button.

6

Press **SETUP** button to exit.



Getting started

Setting the clock (cont'd)

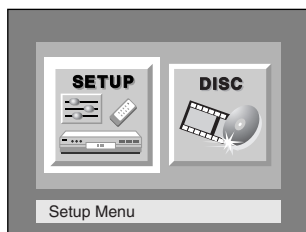
Setting the daylight saving time

When Daylight Saving Time is ON, the unit clock will automatically move forward one hour on the first Sunday in April and move back one hour on the last Sunday in October.

1

Press **SETUP** button to display **SETUP/DISC** menu. **SETUP/DISC** menu will appear.

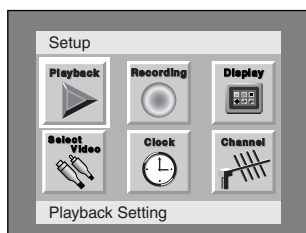
Screen:



2

Select **"SETUP"** using **◀/▶** buttons, then press **ENTER** button.

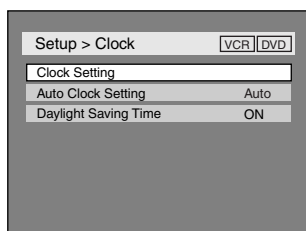
SETUP menu will appear.



3

Select **"Clock"** using **▲ / ▼ / ◀ / ▶** buttons, then press **ENTER** button.

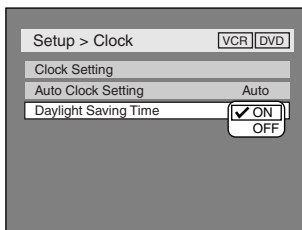
Clock menu will appear.



4

Select **"Daylight Saving Time"** using **▲ / ▼** buttons, then press **ENTER** button.

Daylight Saving Time options will appear.



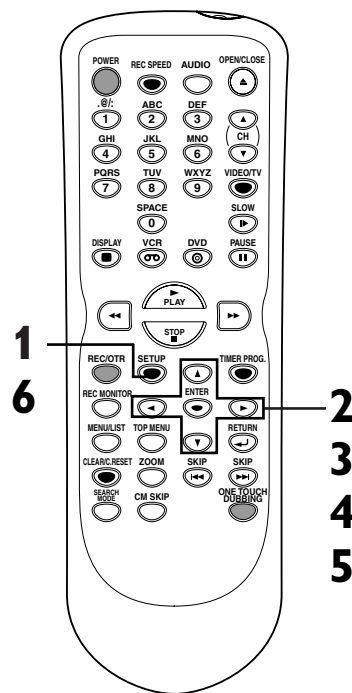
5

Select **"ON"** or **"OFF"** using **▲ / ▼** buttons, then press **ENTER** button.

Choose **"ON"** when currently observing the daylight saving time.

6

Press **SETUP** button to exit.



Getting started

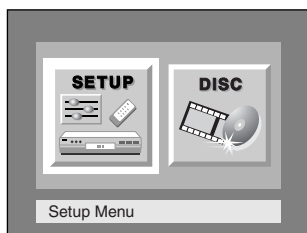
Selecting the TV aspect ratio

You can select the TV aspect ratio to match the formats of what you are playing with the unit and your TV screen (4:3 standard or 16:9 widescreen TV). "4:3 Letter Box" has been selected as the default.

1

Press **SETUP** button to display **SETUP/DISC** menu. **SETUP/DISC** menu will appear.

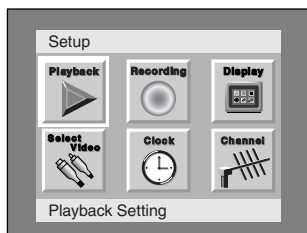
Screen:



2

Select "**SETUP**" using **◀/▶** buttons, then press **ENTER** button.

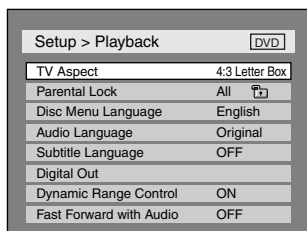
SETUP menu will appear.



3

Select "**Playback**" using **▲ / ▼** / **◀ / ▶** buttons, then press **ENTER** button.

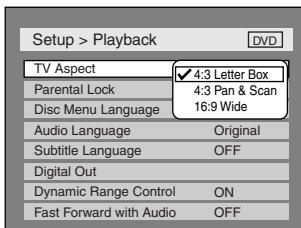
Playback menu will appear.



4

Select "**TV Aspect**" using **▲ / ▼** buttons, then press **ENTER** button.

Option window will appear.



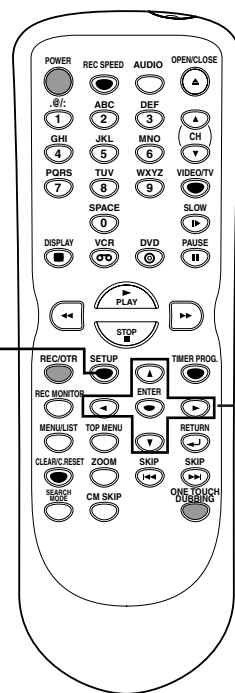
Refer to the **Note** on this page.

5

Select a desired option using **▲ / ▼** buttons, then press **ENTER** button.

6

Press **SETUP** button to exit.



Note : TV Aspect

If you have a standard TV:

Select "4:3 Letter Box", so that black bars appear on the top and bottom of the screen. Select "4:3 Pan & Scan" for a full height picture with both sides trimmed.

If you have a widescreen TV:

Select "16:9 Wide".

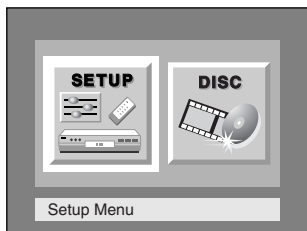
Getting started

Selecting TV stereo or SAP

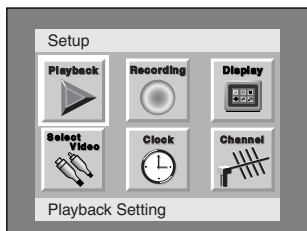
You can select stereo or SAP.
"Stereo" has been selected as the default.

1
Press **SETUP** button to display **SETUP/DISC** menu.
SETUP/DISC menu will appear.

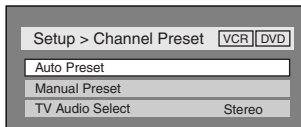
Screen:



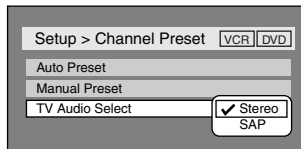
2
Select **"SETUP"** using **◀/▶** buttons, then press **ENTER** button.
SETUP menu will appear.



3
Select **"Channel"** using **▲ / ▼** / **◀ / ▶** buttons, then press **ENTER** button.
Channel Preset menu will appear.

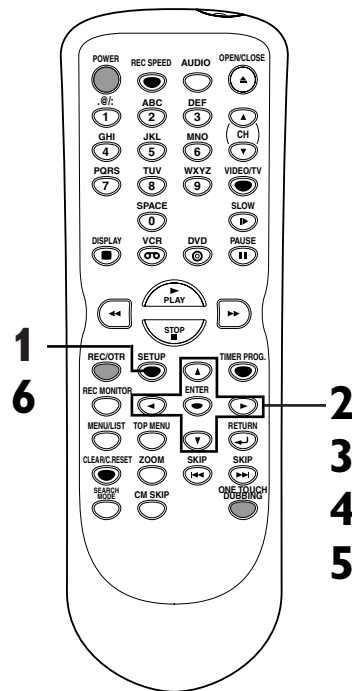


4
Select **"TV Audio Select"** using **▲ / ▼** buttons, then press **ENTER** button.
Option window will appear.



5
Select **"Stereo"** or **"SAP"** using **▲ / ▼** buttons, then press **ENTER** button.
Stereo:
Outputs main-audio.
SAP:
(Secondary Audio Program)
Outputs second audio channel.
Refer to the item in "Glossary" on page 102 for more information.

6
Press **SETUP** button to exit.



Notes on TV channel audio

- When you record a TV program which has Stereo and Secondary Audio Programs on a DVD-RW/R or a tape, you have to select the TV channel audio (Stereo or SAP) beforehand. Only the selected channel audio will be recorded. Refer to the following table to check an appropriate setting.
- As can be seen in the table on the right, if your TV channel audio is set to SAP and the recorded TV program has Stereo and Secondary Audio Programs, you can only view the program in the sub-audio.

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

Getting started

RF converter output

Change from CH3 to CH4

You can watch TV programs through the tuner of the unit. (Usually channel 3 or 4 of the TV is available for the RF converter setting.) Be sure to connect the unit to a TV using the RF cable. Refer to page 10.

1

Select channel 3 on your TV.

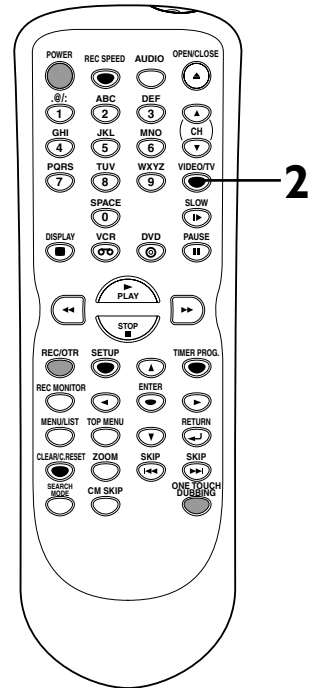
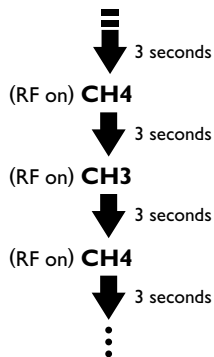
- Be sure that the unit is in DVD mode.

2

Press VIDEO/TV button on the remote control.

- If noise appears, change the RF output channel of the DVD/VCR to CH 4 by pressing VIDEO/TV button for 3 seconds. The RF output channel will alternate between CH3 and CH4 as follows.

Press VIDEO/TV button
for more than 3 seconds



▲ Note:

- RF channel change is available only when the unit is in DVD mode.

Changing the SETUP menu

Tour of the SETUP menu

The following table shows the settings that are available in the SETUP menu and which are the default settings. Refer to the following table for useful operation.

SETUP menu	Items (highlight is the default)	Contents	
1.Language setting ➡ Pages 26-27	Disc Menu Language	English French Spanish ⋮	Set the language for disc menu.
	Audio Language	Original English French ⋮	Set the language for audio.
	Subtitle Language	OFF English French ⋮	Set the language for subtitle.
2.Display setting ➡ Pages 28-29	OSD Background Transparency	100% ⋮ 35% 25% ⋮	Set the background transparency of OSD screen.
	OSD Background Color	1 2 3	Set the OSD screen color. 1 (Green), 2 (Blue), 3 (Red)
	OSD Language	English Français Español	Set the language for OSD (On Screen Display).
	Screen Saver	OFF 5 minutes 10minutes ⋮	Set the time at which point the screen saver turn on.
3.Audio setting ➡ Pages 30-31	Digital Out	Dolby Digital PCM Stream	Set the type of sound signal which outputs from the digital audio output jack.
		PCM Auto 48kHz 96kHz	Set whether the sound recorded in 96kHz will be down sampled to 48kHz.
	Dynamic Range Control	DTS ON OFF	Set whether DTS signal will be output or not.
		ON OFF	Compressing the range of sound volume.
		ON OFF	Outputting sound during playback in fast forward.
4.Parental setting ➡ Pages 32-33	Parental Lock	ALL level 8 to 1	Set the parental level of your DVD discs.
	(Change password)	Enter the current four-digit password	Set and change the password.

Note : Setup

- If you change a setting in SETUP menu, the information of contents stays on even when the power is switched off.

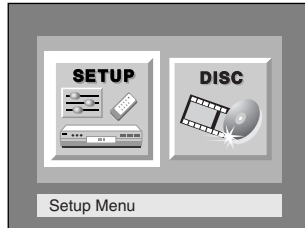
Changing the SETUP menu

Language settings

Press STOP button if you are playing a disc.

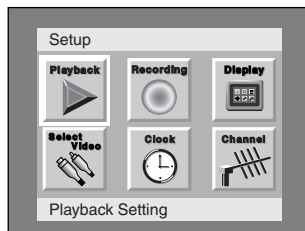
1

Press **SETUP** button to display **SETUP/DISC** menu. SETUP/DISC menu will appear.



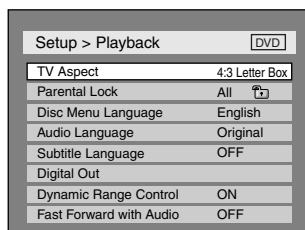
2

Select "**SETUP**" using **◀ / ▶** buttons, then press **ENTER** button. SETUP menu will appear.



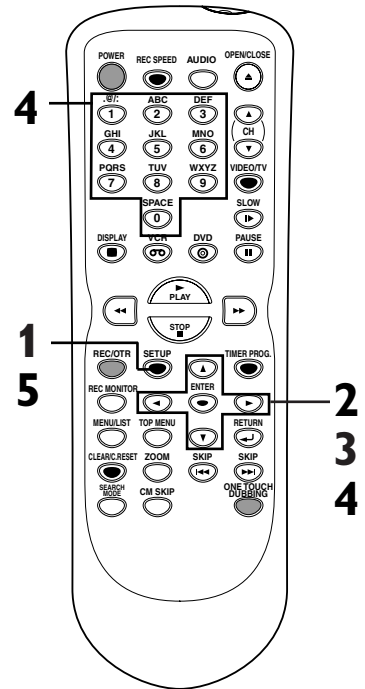
3

Select "**Playback**" using **▲ / ▼ / ◀ / ▶** buttons, then press **ENTER** button. Option window will appear.



4

Select a desired item using **▲ / ▼** buttons, then press **ENTER** button.



Note : Languages

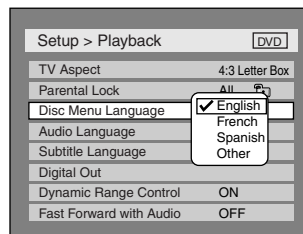
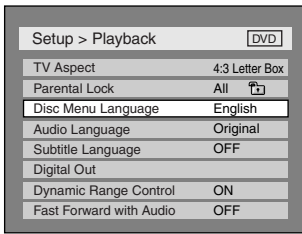
- Only the languages supported by the disc can be selected.
- Audio Language setting may not be available on some discs.
- You can change or switch off the subtitles on a DVD disc also from the disc menu if it is available.

Changing the SETUP menu

Language settings (cont'd)

Disc Menu Language (Default : English)

Set the language for Disc Menu.

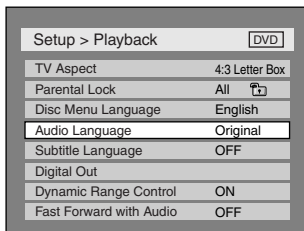


- Select a setting using **▲ / ▼** buttons, then press **ENTER** button.

Your setting will be activated.

Audio Language (Default : Original)

Set the Audio language.

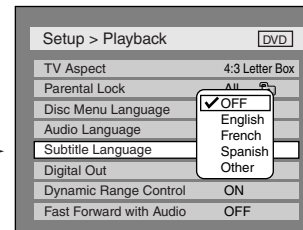
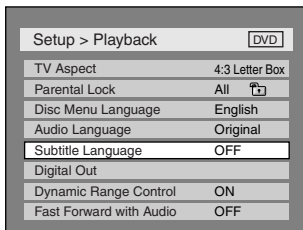


- Select a setting using **▲ / ▼** buttons, then press **ENTER** button.

Your setting will be activated.

Subtitle Language (Default : OFF)

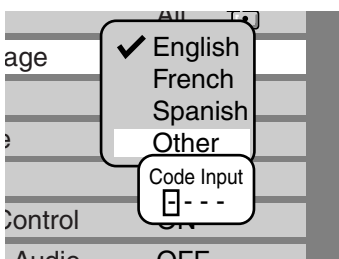
Set the subtitle language.



- Select a setting using **▲ / ▼** buttons, then press **ENTER** button.

Your setting will be activated.

If "Other" is selected, press 4-digit code using number buttons.



- When you finish entering the code, press **ENTER** button. Refer to the language code table on page 103.

5

Press **SETUP** button to exit **SETUP** menu.

Changing the SETUP menu

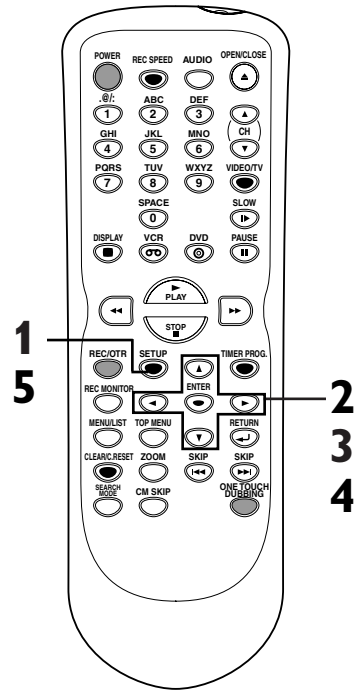
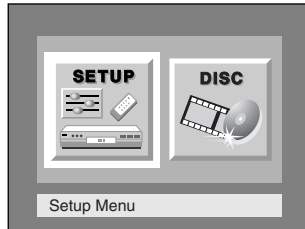
Display settings

Press STOP button if you are playing a disc.

1

Press **SETUP** button to display **SETUP/DISC** menu.

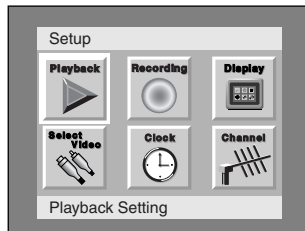
SETUP/DISC menu will appear.



2

Select **"SETUP"** using **◀ / ▶** buttons, then press **ENTER** button.

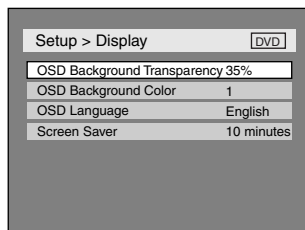
SETUP menu will appear.



3

Select **"Display"** using **▲ / ▼ / ◀ / ▶** buttons, then press **ENTER** button.

Option window will appear.



4

Select a desired item using **▲ / ▼** buttons, then press **ENTER** button.

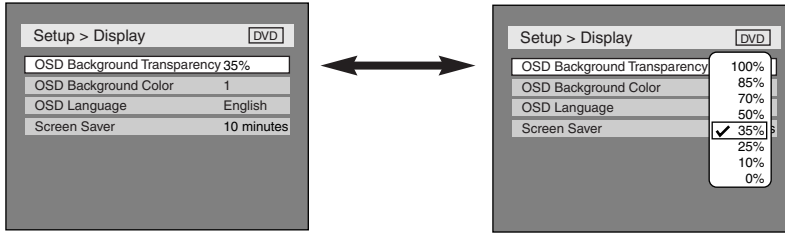
Changing the SETUP menu

Display settings (cont'd)

OSD Background Transparency (Default : 35%)

Set the background transparency of OSD screen.

You can choose one among 0% through 100%.

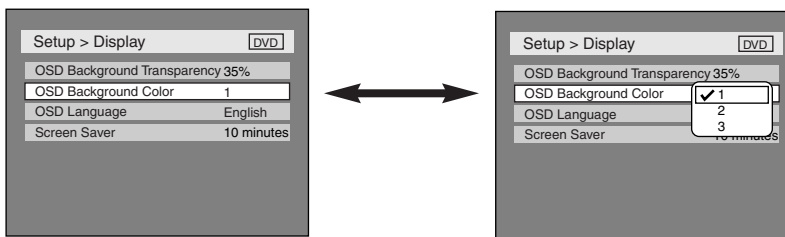


- Select a setting using **▲ / ▼** buttons, then press **ENTER** button.
Your setting will be activated.

OSD Background Color (Default : 1 Green)

Set the OSD screen color.

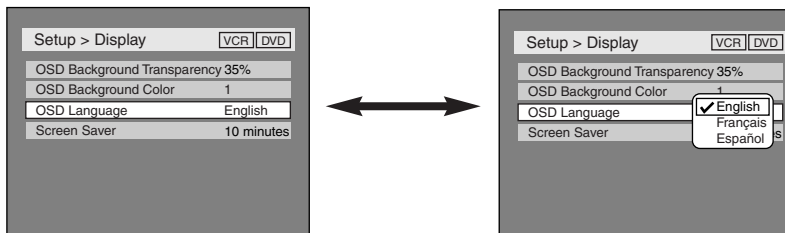
You can choose among the following options 1(Green), 2(Blue), and 3(Red).



- Select a setting using **▲ / ▼** buttons, then press **ENTER** button.
Your setting will be activated.

OSD Language (Default : English)

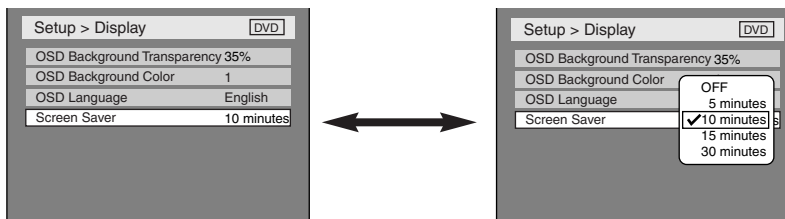
Set the OSD language.



- Select a setting using **▲ / ▼** buttons, then press **ENTER** button.
Your setting will be activated.

Screen Saver (Default : 10 minutes)

Set the time at which point the screen saver function appears on the TV screen.



- Select a setting using **▲ / ▼** buttons, then press **ENTER** button.
Your setting will be activated.

5

Press **SETUP** button to exit **SETUP** menu.

Changing the SETUP menu

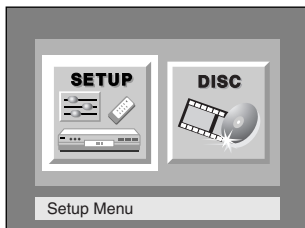
Audio settings

Choose the appropriate Audio settings for your equipment.
It will only affect DVD discs during playback.

Press STOP button if you are playing a disc.

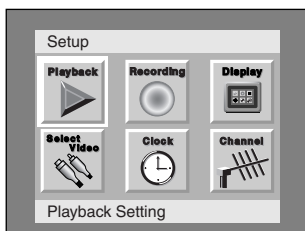
1

Press **SETUP** button to display **SETUP/DISC** menu.
SETUP/DISC menu will appear.



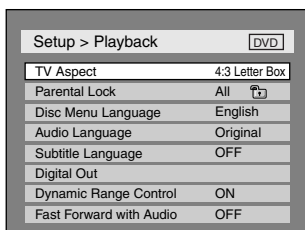
2

Select **"SETUP"** using **◀ / ▶** buttons, then press **ENTER** button.
SETUP menu will appear.



3

Select **"Playback"** using **▲ / ▼ / ◀ / ▶** buttons, then press **ENTER** button.
Option window will appear.

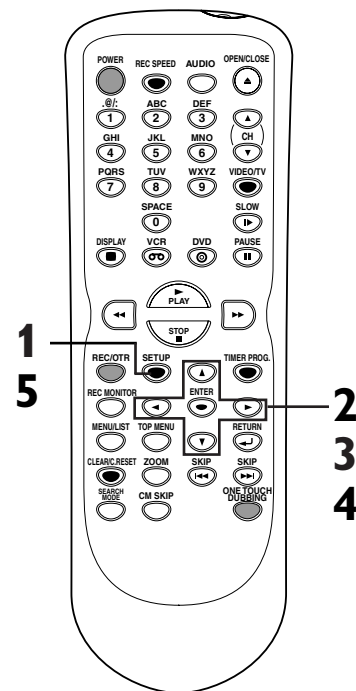
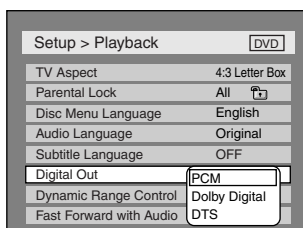
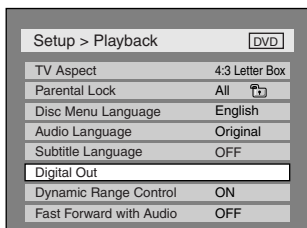


4

Select a desired item using **▲ / ▼** buttons, then press **ENTER** button.

Digital Out

Sets the digital audio output for discs when connected through the coaxial digital audio output.



Note : Dynamic Range Control

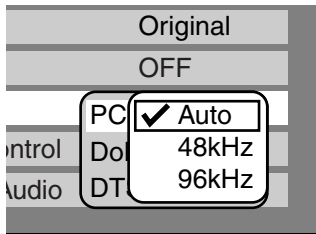
- Dynamic Range Control function is available only on the discs which are recorded in the Dolby Digital format.

- Select a setting using **▲ / ▼** buttons, then press **ENTER** button.
Option window will appear.
Proceed to steps A or B.

Changing the SETUP menu

Audio settings (cont'd)

A Settings for PCM (Default : Auto)

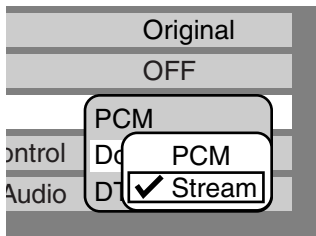


- Select a setting using ▲ / ▼ buttons, then press ENTER button. Your setting will be activated.
- Auto : Select "Auto" usually.
- 48kHz : If your amplifier/receiver is NOT compatible with 96kHz PCM, select "48kHz". 96kHz sound will be output in 48kHz.
- 96kHz : If your amplifier/decoder is compatible with 96kHz PCM, select "96kHz". 96kHz sound will be output.

Note

When playing disc with copy-right protection
 • If you select "Auto", the sound will be down sampled to 48kHz.
 • If you select "96kHz", no digital sound will be output. Select "Auto", to output 48kHz digital sound.

B Settings for Dolby Digital (Default : Stream)

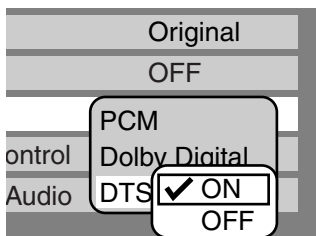


- Select a setting using ▲ / ▼ buttons, then press ENTER button. Your setting will be activated.
- PCM : Converts Dolby Digital into PCM (stereo).
 When your amplifier/receiver is NOT compatible with Dolby Digital, set to "PCM".
- Stream : Outputs Dolby Digital signals.
 When your amplifier/receiver is compatible with Dolby Digital, set to "Stream".

Note

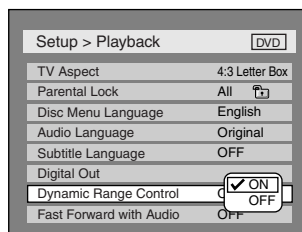
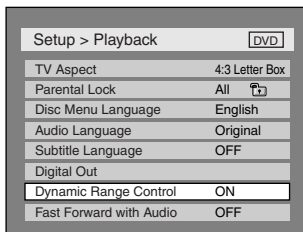
When playing a DVD-RW disc recorded in VR mode
 • If the audio source on a disc is Dolby Digital format, set "Dolby Digital" to "PCM" so that you can switch to main (L), sub audio (R), or a mix of both (L/R) with your amplifier/decoder.

C Settings for DTS (Default : OFF)



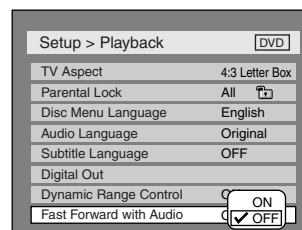
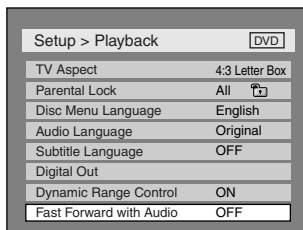
- Select a setting using ▲ / ▼ buttons, then press ENTER button. Your setting will be activated.
- ON : Outputs DTS signals.
 When your amplifier/decoder is compatible with DTS, set to "ON".
- OFF : No DTS signal is output.
 When your amplifier/decoder is NOT compatible with DTS, set to "OFF".

Dynamic Range Control (Default : ON)
 Set to ON to compress the range between soft and loud sounds.



- Select a setting using ▲ / ▼ buttons, then press ENTER button. Your setting will be activated.

Fast Forward with Audio (Default : OFF)
 Set to ON to output sound during playback in x2 fast forward.



- Select a setting using ▲ / ▼ buttons, then press ENTER button. Your setting will be activated.

5
 Press SETUP button to exit SETUP menu.

Before you start
 Connections
 Getting started
 Changing the SETUP menu
 Playing discs
 VCR functions
 Recording
 Editing
 Others
 Español

Changing the SETUP menu

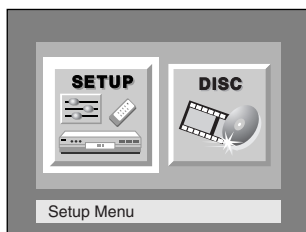
Parental control settings

Some DVD-Video discs feature a Parental control setting. Playback will stop if the ratings exceed the levels you set, it will require you to enter a password before the disc will playback. This feature prevents your children from viewing inappropriate material.

Press STOP button if you are playing a disc.

1

Press **SETUP** button to display **SETUP/DISC** menu. **SETUP/DISC** menu will appear.



2

Select "**SETUP**" using **◀ / ▶** buttons, then press **ENTER** button.

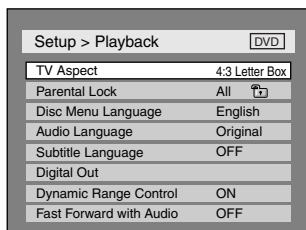
SETUP menu will appear.



3

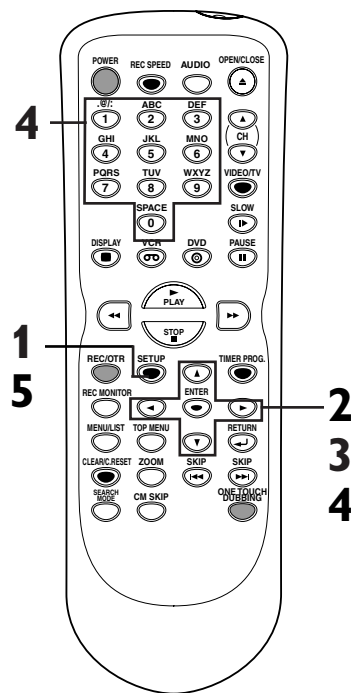
Select "**Playback**" using **▲ / ▼ / ◀ / ▶** buttons, then press **ENTER** button.

Option window will appear.



4

Select "**Parental Lock**" using **▲ / ▼** buttons, then press **ENTER** button.



Note : Parental Control

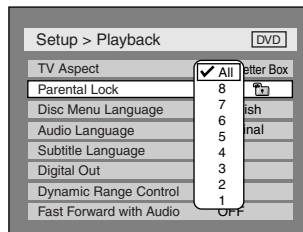
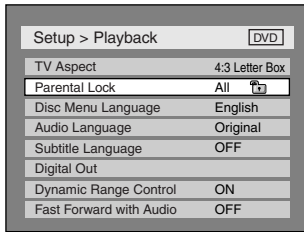
- Parental control function may not be available on some DVD discs.
- With some DVDs, it may be difficult to find if they are compatible with parental control. Be sure to check if the parental control function operates in the way that you have set it.
- Record the password in case you forget it.

Changing the SETUP menu

Parental control settings (cont'd)

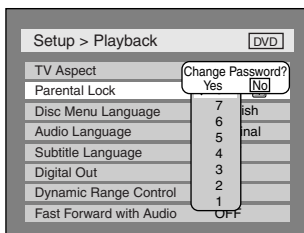
Parental Lock (Default :All)

Set the Parental control level.

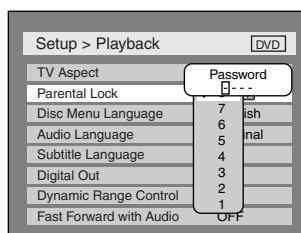


- Change the parental level using ▲ / ▼ buttons, then press ENTER button. Option window will appear. Proceed to steps A or B.

A A password has not been set yet



Yes

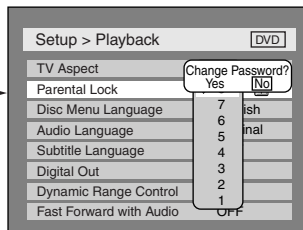
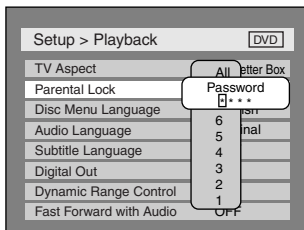


- Select “Yes” using ◀ / ▶ buttons, then enter a new password using Number buttons. Your setting will be activated.

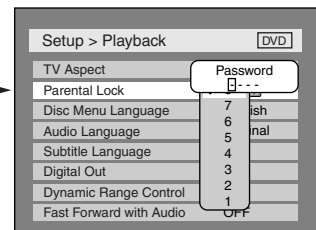
- If you select “No”, proceed to Step 5.

B A password has been set already

Change the password



Yes



- Enter the current password using Number buttons.

- If you select “No”, proceed to Step 5.

- Select “Yes” using ◀ / ▶ buttons, then enter a new password using Number buttons. Your setting will be activated.

Note : Password Reset

- Press CLEAR/C.RESET button to erase numbers entered incorrectly.
- When you forget the password or you want to clear all settings in Parental lock, enter 4,7,3,7 using Number buttons in option window. Password will be cleared and parental levels will be set to All.

5

Press SETUP button to exit SETUP menu.

Playing discs

Information on DVD play

Before you attempt to play DVD discs, read the following information.

Playable discs

This unit is compatible with following discs. To play a DVD, make sure that it meets the requirements for Region Codes and Color Systems as described below. Discs that have the following logos will play on the unit. Other Disc types are not guaranteed to play.

Disc	Logo
DVD VIDEO	
DVD-RW (VIDEO/VR FORMAT)	
DVD-R (VIDEO FORMAT)	
CD-DA (AUDIO CD)	
CD-R (CD-DA FORMAT, MP3 files)	
CD-RW (CD-DA FORMAT, MP3 files)	

Color systems

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

Region codes

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

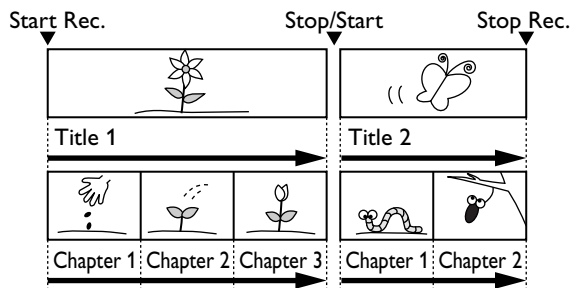


The number inside the globe refers to region of the world. Region 1 represents the United States, Canada, Bermuda, the U.S. Virgin Islands and small regions near Australia.

A DVD labeled for a specific region can only play on the unit with the same region code.

DVD playback

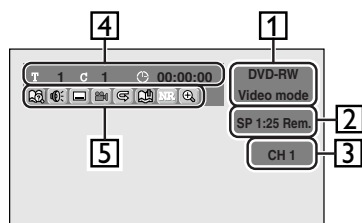
The contents of a DVD disc are generally divided into titles. Titles may be further subdivided into chapters.



Guide to displays

First:

Press DISPLAY button to bring up the display menu. This menu will give you information on the playing disc. Some operations are available while the disc is playing.



1. Indicates a disc type and a format mode.
2. Indicates a recording speed and recording time left.
3. Indicates a current channel number and an audio status of the program.
4. Indicates a title number, chapter number and the time elapsed of disc play.

5. Icon Legend:

- : Search
- : Audio
- : Subtitle
- : Angle (except VR mode)
- : Repeat
- : Marker
- : Noise Reduction
- : Zoom

Playing discs

Basic playback

Playback



1

Press **POWER** button, then press **DVD** button.

When you are playing a DVD, turn the TV on and be sure to select the input to which the DVD/VCR is connected.

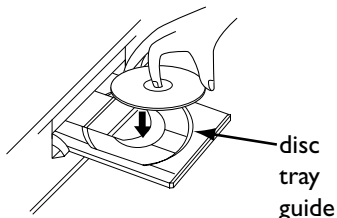
2

Press **OPEN/CLOSE** button to open the disc tray.

The disc tray will open.

3

Place the disc onto the disc tray with its label facing up and make sure to align the disc to the disc tray guide.



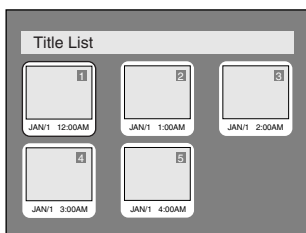
This operation may take a few minutes to complete.

4

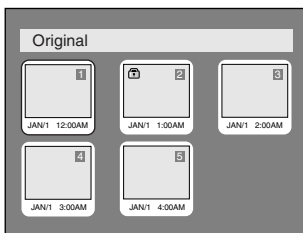
Press **TOP MENU** button to display the title menu.

You can change "Original" or "Playlist" of VR mode using **MENU/LIST** button.

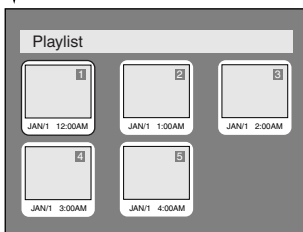
Video mode:



VR mode:



MENU/LIST button



5

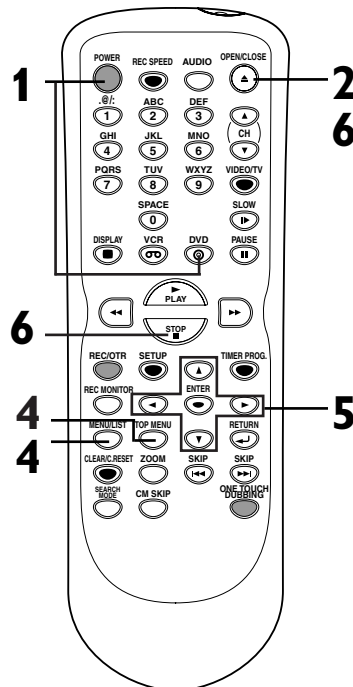
Select a desired title using **▲ / ▼ / ◀ / ▶** buttons, then press **ENTER** button.

Playback will begin.

6

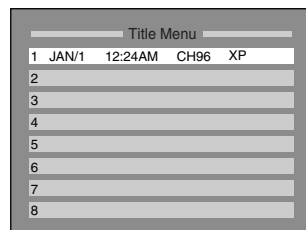
Press **STOP** button to stop playback.

To eject the disc, press **OPEN/CLOSE** button to open the disc tray, then remove the disc before turning off the DVD/VCR.



Note : Title List

- For DVD-R (Video mode) and DVD-RW (Video mode) discs which are already finalized, a title list will be displayed instead of thumbnails.



- You can resume play from where you stopped playing the disc Resume play. Refer to page 39 for details about resume play.
- Some discs may start playing automatically.

Playing discs

Basic playback (cont'd)



1 Press **POWER** button, then press **DVD** button.

When you are playing a DVD or an audio CD, turn the TV on and be sure to select the input to which the DVD/VCR is connected.

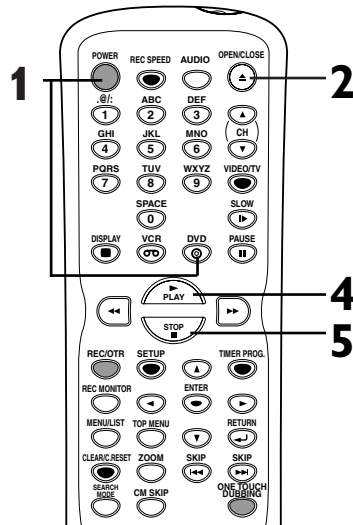
2 Press **OPEN/CLOSE** ▲ button to open the disc tray. The disc tray will open.

3 Place the disc onto the disc tray with its label facing up and make sure to align the disc to the disc tray guide.

4 Press **PLAY** ► button to start playing. Playback will start.

If you are playing a DVD-Video disc, a menu may appear. Refer to page 37 for details about a disc menu.

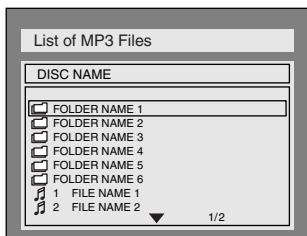
5 Press **STOP** ■ button to stop playing.



Note : Automatic Playback
• Some discs may start playing automatically.

For MP3 playback

1 In stop mode, press **TOP MENU** button to bring up the MP3 menu.



• To exit the menu, press **TOP MENU** button again.

2 Press ▲ / ▼ buttons to select a desired folder (group) or track, then press **ENTER** button.

When selecting track:
Playback will start.

When selecting the folder:
The files in folder will appear. Press ▲ or ▼ button to select the track or folder you want, then press **ENTER** button.

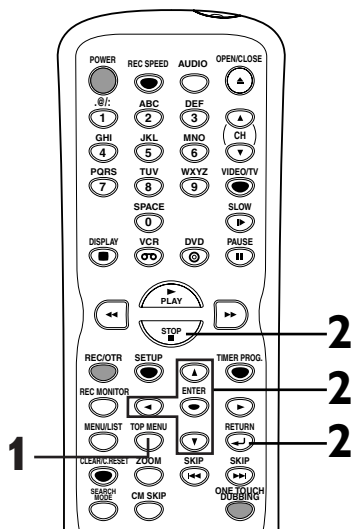
- Press ◀ button or **RETURN** ↵ button to go to the previous hierarchy.
- Press **STOP** ■ button to return to the first item.

Hints for MP3 files:

- Folders are known as Groups, files are known as Tracks.
- Folders are accompanied by folder icon.
- MP3 files are accompanied by music icon. Playback will start from the selected track and go to the next one in turn.
- The system can recognize up to 255 groups (or folders) and up to 255 tracks.
- The name of group and track can be displayed in up to 32 characters. Unrecognizable characters will be replaced with asterisks.
- If there are no files in the folder, "No Files" will be displayed.

This unit recommends the files recorded under the following circumstances:

- Sampling frequency: 44.1kHz or 48kHz.
- Constant bit rate: 112kbps - 320kbps.



Note : MP3 Playback
• The audio source of MP3 files cannot be recorded as digital sound by an MD or DAT deck.
• Files whose extension is other than ".mp3 (MP3)" will not be listed in the MP3 menu.
• Some unplayable folders or tracks may be listed in the MP3 menu due to the recording status.

Playing discs using the disc menu



A DVD disc contains a disc menu that describes the contents or allows you to customize the playback. For example, the menu may offer choices for subtitle languages, special features, or chapter selection.


Sometimes these are displayed automatically when you start playback, sometimes they only appear when you press MENU/LIST button.

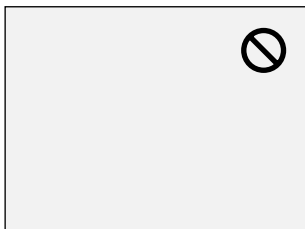
First: 

1

Press MENU/LIST button.

The DVD main menu will appear.

If the feature is not available on the DVD disc,  may appear on the TV screen.



2

Select an item using ▲/▼/◀/▶ buttons, then press ENTER button to confirm.

Continue this step to set up all the features you want or to start playing the disc from the menu.

MENU/LIST button:

Displays a DVD disc menu which varies with the disc and may be the same as the 'Title menu.'

▲/▼/◀/▶ buttons:

Moves the cursor around screen.

Enter button:

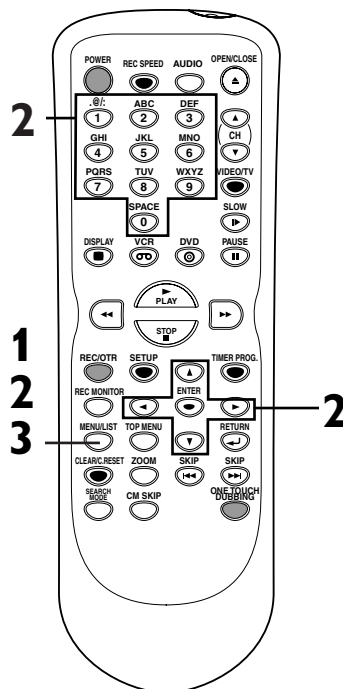
Selects the currently highlighted menu option.

Number buttons:

Selects a numbered menu option (some discs only). Press ENTER button after.

3

Press MENU/LIST button to exit the menu.



Note : DVD Disc Menu

- Menus vary among discs. Refer to the information accompanying the disc for details.

Playing discs

Basic playback (cont'd)

Playing discs using the title menu



Some DVDs have a title menu, which lists the titles available. It allows you to start playback at a specific title.

First:

.....
1

Press TOP MENU button.
The title menu will appear.

If the feature is not available on the DVD disc, may appear on the TV screen.



.....
2

Select a title to play using the ▲/▼/◀/▶ buttons, then press ENTER button.
Playback will begin at the title you selected.

TOP MENU button:

Displays the 'Title menu' of a DVD disc which varies with the disc.

▲/▼/◀/▶ buttons:

Moves the cursor around screen.

Enter button:

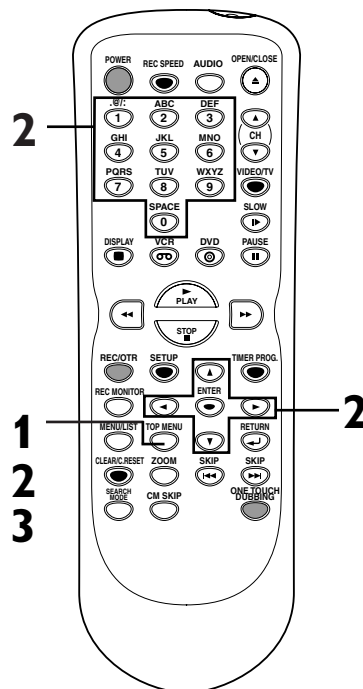
Selects the currently highlighted menu option.

Number buttons:

Selects a numbered menu option (some discs only). Press ENTER button after.

.....
3

Press TOP MENU button to exit the title menu.



Note : DVD Disc Menu

- The TOP MENU button will not always be active with all DVDs.
- Menus vary among discs. Refer to the information accompanying the disc for details.

Playing discs

Special playback

Resume play



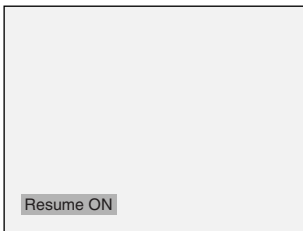
You can resume play from where you stopped playing the disc last.

1

During playback, press **STOP** button.

The resume message will appear.

TV Screen:

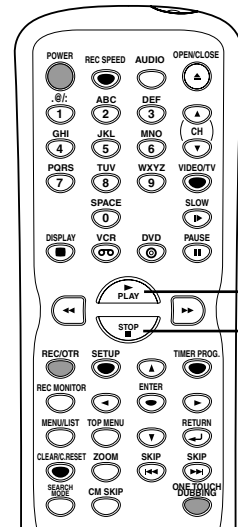


2

Press **PLAY** button.

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

To cancel the resume play and start playing the disc from the beginning, press **STOP** button the second time while the playback is stopped.



Note : MP3

- For MP3 files, playback will resume from the beginning of the track at which playback was stopped.

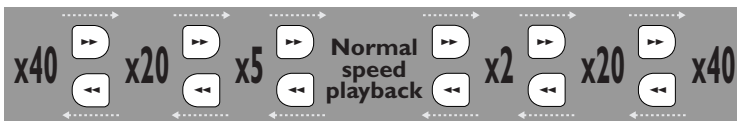
Fast forward / Fast reverse



1

During playback, press **▶▶** or **◀◀** button.

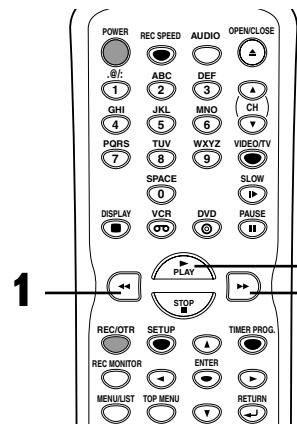
Every time you press **▶▶** or **◀◀** button, approximate speed will be changed as follows. (For DVD discs, the sound will be output during playback in fast forward of x2 only if you set "Fast Forward with Audio" to "ON" for the "Playback" setting in the SETUP menu.)



For Audio CDs, approximate speed is set at x8 with sound.

For MP3 files, approximate speed is set at x16.

To return to the normal playback, press **PLAY** button.



Note : Slow Speed

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

Forward (Approx. Speed)

x2: ▶▶

x20: ▶▶▶

x40: ▶▶▶▶

Reverse (Approx. Speed)

x5: ◀◀

x20: ◀◀◀

x40: ◀◀◀◀

Playing discs

Special playback (cont'd)

Skipping TV commercials during play



e.g. Press CM SKIP button once

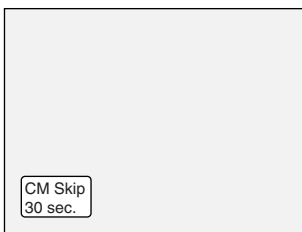
You can skip TV commercials by pressing CM SKIP button, so that you can enjoy the recorded programs with limited interruption.

1

During playback, press **CM SKIP** button.

Normal playback will resume at 30 seconds ahead from the point when you press CM SKIP button. Every time you press CM SKIP button, time will advance 30 seconds ahead.

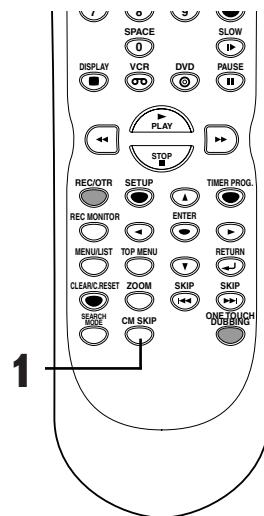
You can press up to 6 times (180 seconds).



↓
(forwarding 30 seconds.)



Playback will resume automatically.



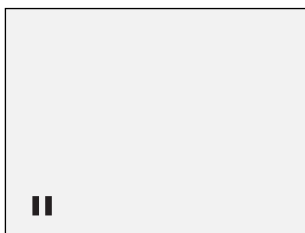
Pause



1

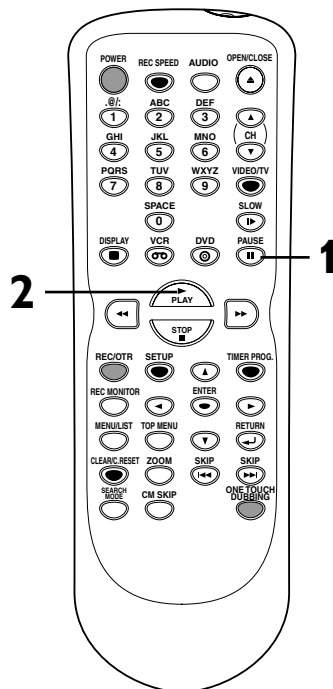
During playback, press **PAUSE** button.

Playback will pause and sound will be muted.



2

Press **PLAY** button to resume play.



Playing discs

Special playback (cont'd)

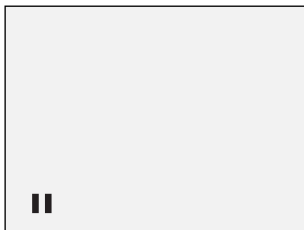
Step by step playback



1

During playback, press **PAUSE** **II** button.

Playback will pause and sound will be muted.



2

Press **SKIP** **▶▶** button repeatedly.

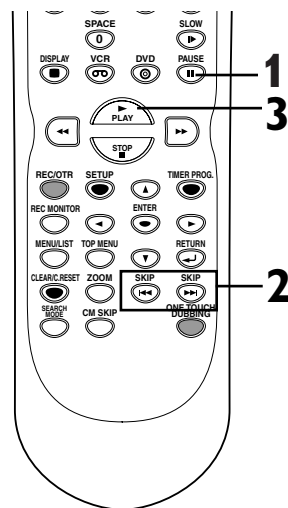
Playback will advance one frame (or step) at a time when you press the skip **▶▶** button with the sound muted.

To play step by step backward:

Press **SKIP** **◀◀** button repeatedly. Every time you press the button, playback will go backward by one frame.

3

Press **PLAY** **▶** button to resume play.



Slow forward / Slow reverse play



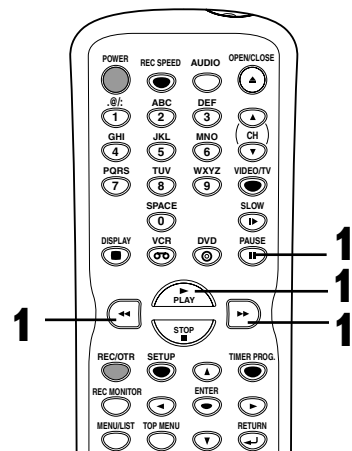
1

During playback, press **PAUSE** **II** button, then press **▶▶** or **◀◀** button.

Every time you press **▶▶** or **◀◀** button, approximate speed will be changed as follows. (The sound will remain mute.)



To return to the normal playback, press **PLAY** **▶** button.



Note : Slow Speed

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

Forward (Approx. Speed)

x1/16:

x1/8:

x1/2:

Reverse (Approx. Speed)

x1/16:

x1/8:

x1/4:

Playing discs

Special playback (cont'd)

Zoom

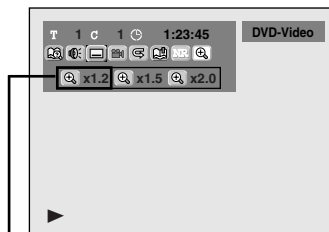


1

During playback, press **ZOOM** button.

Zoom menu will appear.

Screen:

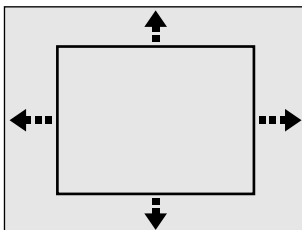


There are four options (x1.0, x1.2, x1.5 and x2.0), these are displayed excluding the current zoom rate.

2

Select a desired zoom factor using **◀/▶** buttons, then press **ENTER** button.

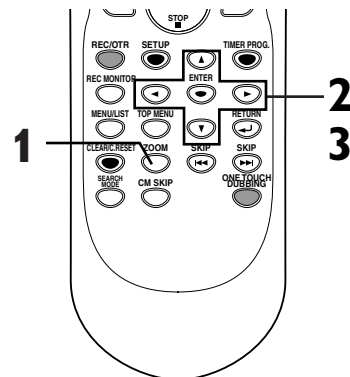
The zoom area will be displayed.



3

Select a desired zoom position using **▲/▼/◀/▶** buttons, then press **ENTER** button.

The zoom play will start.



Note : Zoom

- When selecting a smaller factor than the current one, the zoom area will not be displayed.
- To remove the zoom menu, press **ZOOM** button again at step 1.
- To cancel the zoom function, select x1.0 using **◀/▶** buttons, then press **ENTER** button.

Marker Setup



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

1

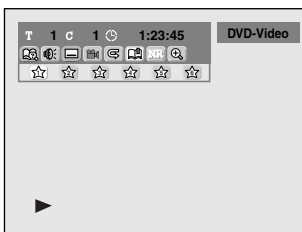
During playback, press **DISPLAY** button.

The display menu will appear.

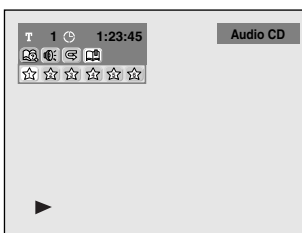
Screen:



Screen for DVD:



Screen for CD:



2

Select **☆** icon using **◀/▶** buttons, then press **ENTER** button.

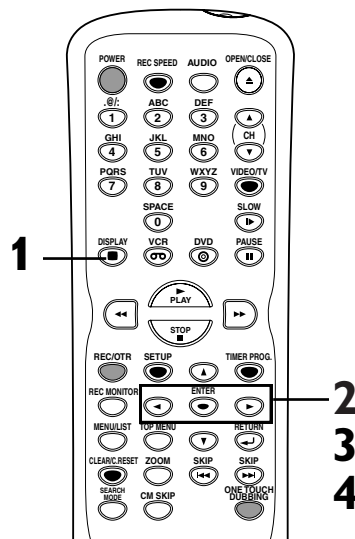
Marker setup menu will appear.

3

Select a desired marker number using **◀/▶** buttons. When reaches the desired point, press **ENTER** button.

4

To return to the marker later, select the desired marker number using **◀/▶** buttons, then press **ENTER** button.



Note : Marker

- To clear a marker, select the marker number to be cleared, then press **CLEAR/C.RESET** button.
- All markers will be erased when you do the following.
 - Opening the disc tray.
 - Turning off the power.
 - Recording to a recordable disc.
 - Changing the mode between Original and Playlist.(VR mode)
- You can mark up to 6 points.

Title/Chapter search



Using SKIP ◀◀ / ▶▶ buttons

1

During playback, press SKIP ▶▶ button to skip the current title or chapter and move to the next.

The title or chapter will move forward one at a time.

To go back to the previous title or chapter, press SKIP ◀◀ button. The title or chapter will move backward one title at a time.

Using DISPLAY button

1

During playback, press DISPLAY button.

The display menu will appear.

Screen:



2

Select icon using ◀ / ▶ buttons, then press ENTER button.

'T' for title will be highlighted.

Title:

Enter a desired title number to search using ▲ / ▼ buttons or number buttons, then press ENTER button.

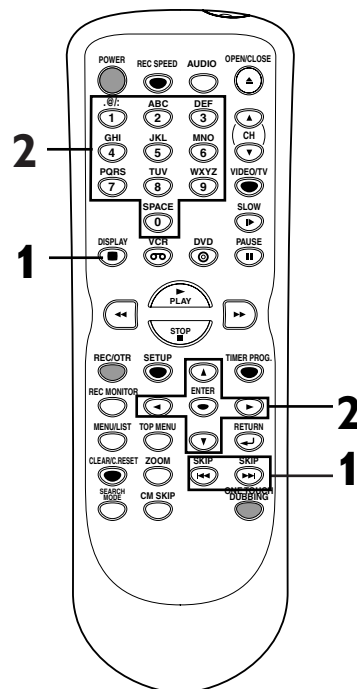
Title search will start.

Chapter:

To move to 'C' for chapter, press ▶ button.

Enter a desired chapter number to search using ▲ / ▼ buttons or number buttons, then press ENTER button.

Chapter search will start.



Playing discs

Search (cont'd)

Track search



Using SKIP ◀◀ / ▶▶ buttons

1

During playback, press SKIP ▶▶ button to skip the current track and move to the next.

The track will move forward one at a time.

To go back to the previous track, press SKIP ◀◀ button. The track will move backward one track at a time.

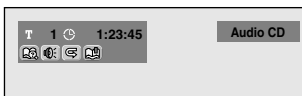
Using DISPLAY button

1

During playback, press DISPLAY button.

The display menu will appear.

Screen:



2

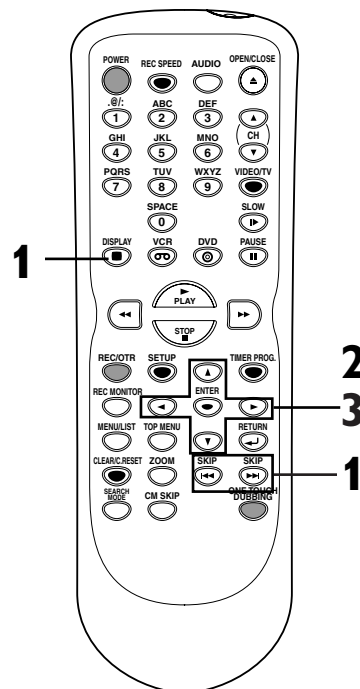
Select icon using ◀ / ▶ buttons, then press ENTER button.

'T' for track will be highlighted.

3

Enter a desired track number to search using ▲ / ▼ buttons or number buttons, then press ENTER button.

Track search will start.



Time search



1

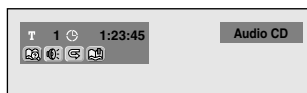
During playback, press DISPLAY button.

The display menu will appear.

Screen for DVD:



Screen for CD:



2

Select icon using ◀ / ▶ buttons, then press ENTER button.

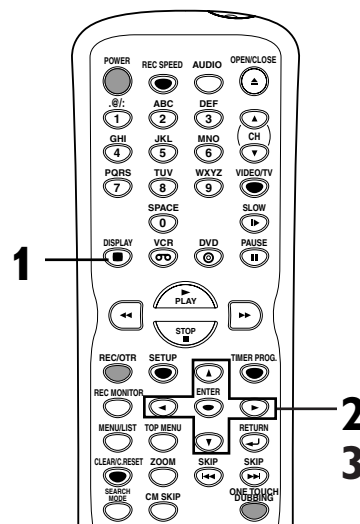
'T' for title or track will be highlighted.

To move to the clock icon , press ▶ button.

3

Enter a desired time to search using ▲ / ▼ buttons or number buttons, then press ENTER button.

Time search will start.



Note : Time Search

- Time search function is available only in the same track or title.

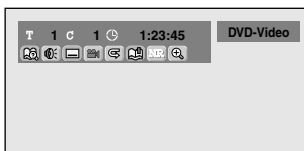
Playing discs

Repeat/Random/Program play

Repeat play

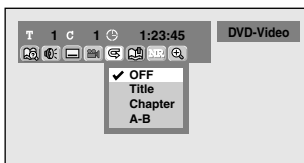


1 During playback, press **DISPLAY** button. The display menu will appear.



2 Select icon using **◀/▶** buttons, then press **ENTER** button. Repeat menu will appear.

Screen:



3 Select a desired option to repeat using **▲/▼** buttons, then press **ENTER** button. The selected repeat play will start.

Title:
The current title will be played repeatedly. (DVD only)

Chapter:
The current chapter will be played repeatedly. (DVD only)

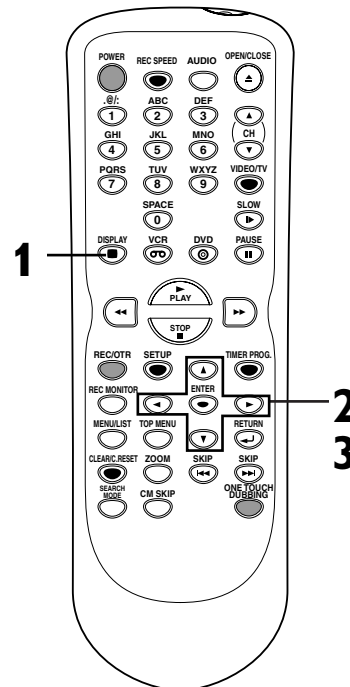
All:
The current disc will be played repeatedly. CD, MP3 and DVD-RW (VR mode only)

A-B:
The A-B point will be played repeatedly. When pressing **ENTER** button while A-B is highlighted, the starting point (A) will be decided.

Press **ENTER** button again to select the ending point (B).

Track:
The current track will be played repeatedly. (CD, MP3 only)

Group:
The current group will be played repeatedly. (MP3 only)



Note : Repeat

- The A-B Repeat playback can only be set with in the current title (for DVDs), or current track (for Audio CDs).
- To cancel repeat playback, select OFF at step 2.
- You cannot select "Group" during the random playback of MP3 files.

Random play

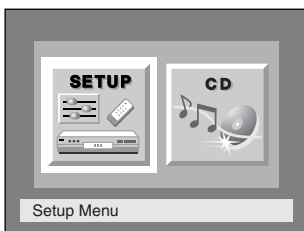


With this function, you can play a disc randomly instead of playing in the order on the disc.

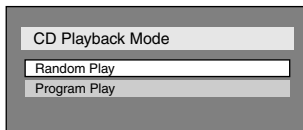
First:

1 Press **SETUP** button to display **SETUP/CD** menu. **SETUP/CD** menu will appear.

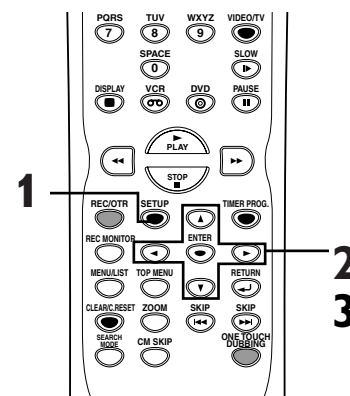
Screen:



2 Select "CD" using **◀/▶** buttons, then press **ENTER** button. CD Playback Mode menu will appear.



3 Select "Random Play" using **▲/▼** buttons, then press **ENTER** button. Random playback will start.



Note : Stop

- To cancel random playback, press **STOP** button twice during random playback.

Playing discs

Repeat/Random/Program play (cont'd)

Program play



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

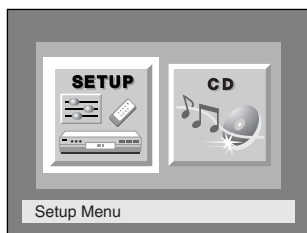
First:

1

Press **SETUP** button to display **SETUP/CD** menu.

SETUP/CD menu will appear.

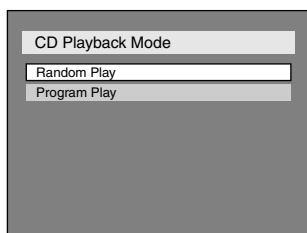
Screen:



2

Select **"CD"** using **◀/▶** buttons, then press **ENTER** button.

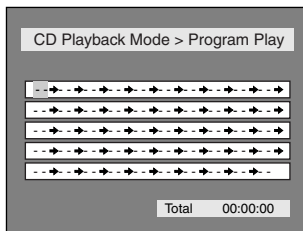
CD Playback Mode menu will appear.



3

Select **"Program Play"** using **▲/▼** buttons, then press **ENTER** button.

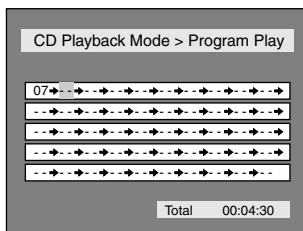
Program play list will appear.



4

Select a desired track using **▲/▼** buttons, then press **ENTER** button or **▶** button.

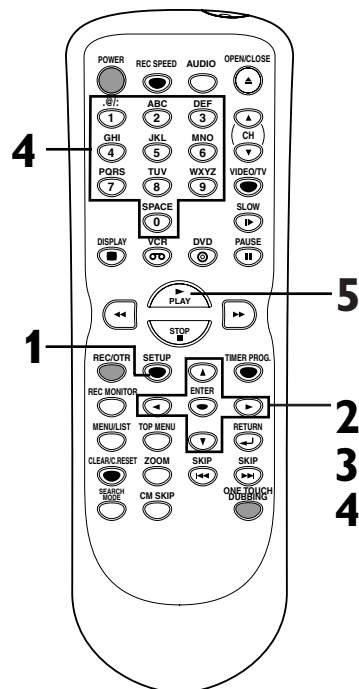
A cursor will move to the next.



5

Press **PLAY ▶** button to start program playback.

Program playback will start.



Note : Program Playback

- To erase tracks you selected, press **CLEAR/C.RESET** button.
- You can make up to 50 program settings.
- To cancel program playback, press **STOP ■** button twice during program playback.
- You may also select a desired track using Number buttons at step 4.

Playing discs

Selecting audio and video formats

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

Switching audio soundtrack




When playing a DVD-Video disc recorded with two or more soundtracks (these are often in different languages), you can switch between them anytime during playback.

On DVD-RW discs recorded in VR mode, you can switch to main (L), sub audio (R) or a mix of both (L/R).

1 During playback, press **DISPLAY** button.

The display menu will appear.
Screen:

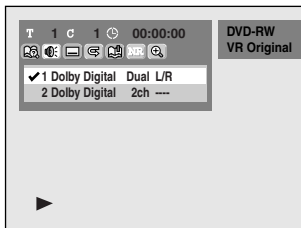


2 Select  icon using **◀ / ▶** buttons, then press **ENTER** button.

Audio menu will appear.
<DVD-Video>

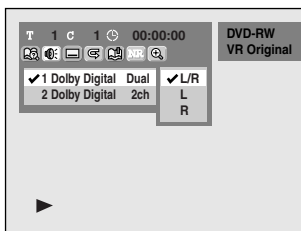


<DVD-RW VR mode>

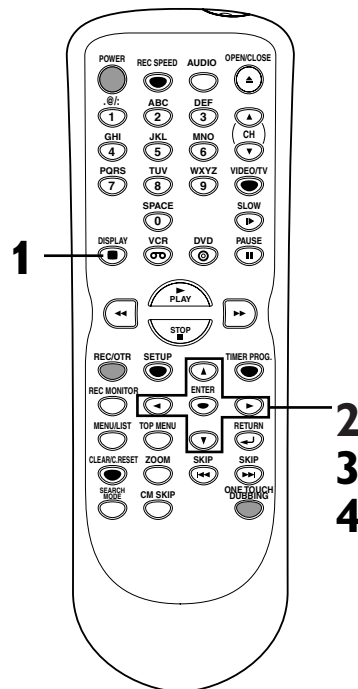


3 Select a desired audio soundtrack using **▲ / ▼** buttons, then press **ENTER** button.

<DVD-Video>
Audio soundtrack will switch.
<DVD-RW VR mode>



4 Select a desired audio channel using **▲ / ▼** buttons, then press **ENTER** button.
Audio channel will switch.



Note : Dual Audio Sound Tracks

- Some discs will only allow you to change the soundtrack from the disc's menu. Press TOP MENU button or MENU/LIST button to display the disc's menu.
- On DVD-RW discs recorded in VR mode that may have both a main and a sub audio channel, you can switch to main (L), sub audio (R) or a mix of both (L/R).

Important

- This unit CANNOT record in both stereo and SAP (Secondary Audio Program) at the same time.

Playing discs

Selecting audio and video formats (cont'd)



When playing Audio CDs or MP3 files you can switch between stereo, just the left channel or just the right channel.

1

During playback, press **DISPLAY** button.

The display menu will appear.
Screen:



2

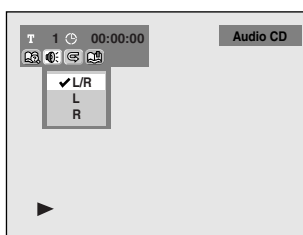
Select icon using **◀/▶** buttons, then press **ENTER** button.

Audio menu will appear.

3

Select a desired audio channel using **▲/▼** buttons, then press **ENTER** button.

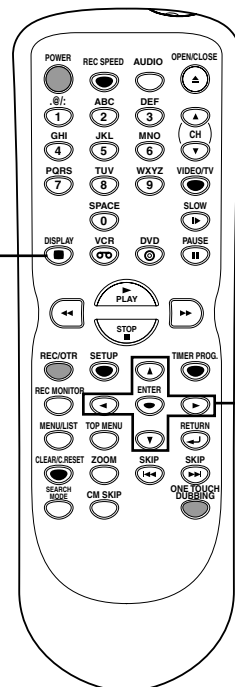
Audio channel will switch.



1

2

3



Switching subtitles



Many DVD Video discs have subtitles in one or more languages. The case usually tells you which subtitle languages are available.

Important

- You can switch subtitle languages anytime during playback.

1

During playback, press **DISPLAY** button.

The display menu will appear.
Screen:



2

Select icon using **◀/▶** buttons, then press **ENTER** button.

Subtitle menu will appear.



3

Select a desired subtitle language using **▲/▼** buttons, then press **ENTER** button.

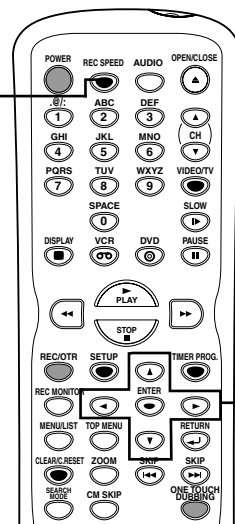
Subtitle will be displayed in the selected language.

When selecting "OFF" subtitle will disappear.

1

2

3



Note : Subtitle

- Some discs will only allow you to change the subtitle from the disc's menu. Press **TOP MENU** button or **MENU/LIST** button to display the disc's menu.

Playing discs

Selecting audio and video formats (cont'd)

Switching camera angles



Some DVD Video discs feature scenes shot from two or more angles, check the DVD disc brochure for details: It should be marked with an angle icon if it contains multi-angle scenes.

1

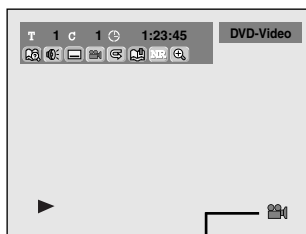
During playback, press **DIS-PLAY** button.

Important

• It has to be during playback.

The display menu will appear.

Screen:

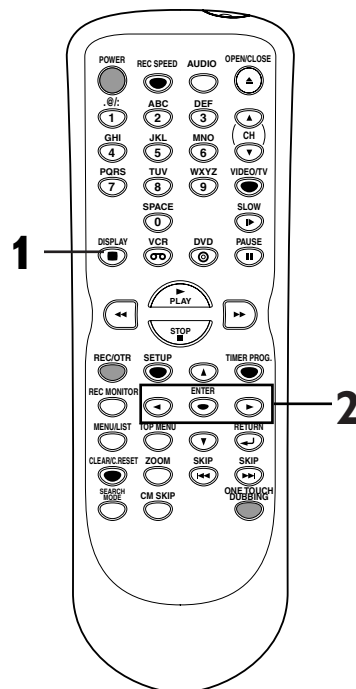


Angle icon appears when an additional camera angle is available.

2

Select icon using **◀ / ▶** buttons, then press **ENTER** button.

Angle will switch each you press **ENTER** button.



Reducing block noise

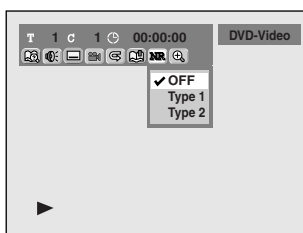


1

During playback, press **DIS-PLAY** button.

The display menu will appear.

Screen:



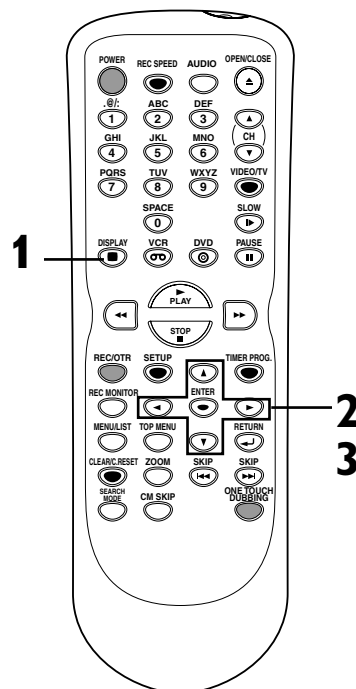
3

Select a desired option using **▲ / ▼** buttons, then press **ENTER** button.

Your setting will be activated.

This function reduces noise in the playback picture. When playing back discs recorded in long time mode such as SLP or SEP mode, select "Type 1" or "Type 2". ("Type 2" is more effective.)

When playing back discs with little noise such as prerecorded DVD-Video discs, select "OFF".



2

Select **NR** icon using **◀ / ▶** buttons, then press **ENTER** button.

Noise Reduction menu will appear.

VCR functions

Playback



1

Press **POWER** button on the remote control or the front panel of the unit.

When you are playing a tape, turn the TV on and be sure to select the input to which the DVD/VCR is connected.

Press:

2

Insert a prerecorded tape, then press **PLAY** button to begin playback.

3

During playback, press **PAUSE** button.

Playback will pause and sound will be muted.

4

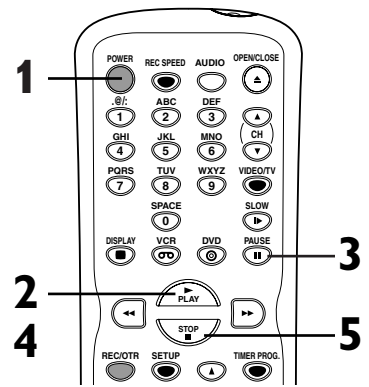
Press **PLAY** button to resume play.

5

Press **STOP** button to stop playback.

6

Press **STOP/EJECT** button on the front panel of the unit to eject the tape.



Note : No Record Tab

- When a tape without record tab is inserted, the unit will start playback automatically.
- Tracking will be automatically adjusted upon playback. To adjust the tracking manually, press the CHANNEL ▲/▼ buttons on the front panel of the unit or CH▲/CH▼ buttons on the remote control.

Recording and One-touch timer recording

Recording



Before recording, make sure:

- The desired channel is selected by pressing Number buttons on the remote control or CHANNEL ▲/▼ buttons on the front panel of the unit.
- There is a tape with a record tab in the DVD/VCR.
- The desired recording speed is selected in SP (standard play) or SLP (super long play) mode by pressing REC SPEED button on the remote control.

Recording speed:

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

- Stereo or SAP is selected.
- Refer to page 64 for instructions on timer recording.

First:

1

Press **REC/OTR** button to begin the recording.

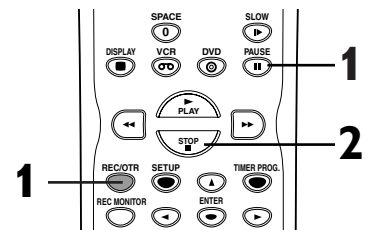
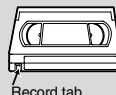
To temporarily stop recording or to resume it, press **PAUSE** button. After the unit has been in Pause mode for 5 minutes, it will stop automatically to protect the tape and the video head from damage.

2

Press **STOP** button when the recording is completed.

Accidental erasure prevention

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



Note : Record View channels

- To view one channel while recording another
 - 1) While you are recording on the unit, press VIDEO/TV button.
 - 2) At the cable box or satellite box, select the channel you want to view.

If you have connected the unit to a cable box or satellite box, refer to "Connection to a Cable Box or Satellite Box" section on page 11.
- If OTR is finished in VCR during playback or REC mode in DVD, the VCR will be in STOP mode and the DVD keeps the current mode.

VCR functions

Recording and One-touch timer recording (cont'd)

One-touch timer recording



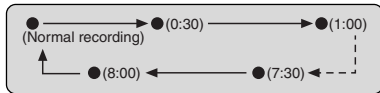
This feature allows you to set the recording length simply by pressing REC/OTR button on the remote control or the front panel of the unit.

First:

1

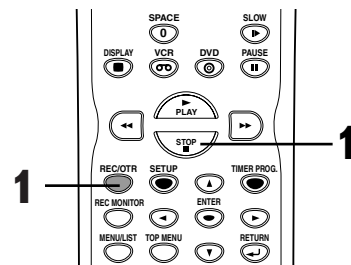
During normal recording, press REC/OTR button to begin one-touch timer recording.

You can select a fixed recording length by pressing the REC/OTR button repeatedly.



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

To cancel the one-touch timer recording within the specified time, press STOP button.



Note: OTR

- The remaining recording time will appear on the display panel during an OTR. Press DISPLAY button to see it on the TV screen.
- You cannot pause an OTR.

Search

Index search



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

First:

1

Press SEARCH MODE button twice so that the index search menu appears.

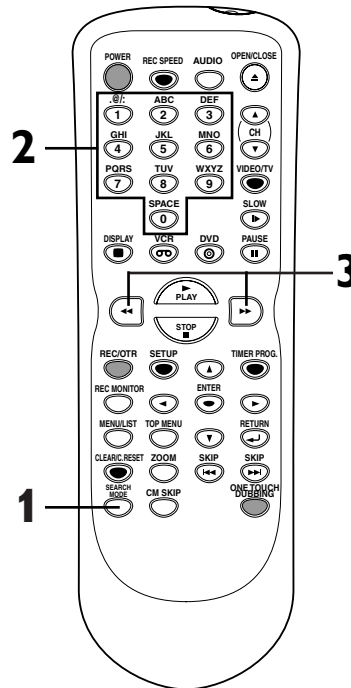
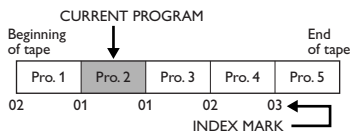
2

Enter the number of recordings you wish to skip using Number buttons with in 30 seconds.

3

Press ►►/◄◄ buttons to start index search.

If you want to go in the forward direction, press ►► button. If you want to go in the reverse direction, press ◄◄ button. After index search, the VCR will play the tape automatically.



Note : Index Mark

- Every time a tape is recorded, an index mark is written on the tape.

INDEX SEARCH
03

VCR functions

Search (cont'd)

Time search



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

First:

1

Press **SEARCH MODE** button repeatedly so that the Time search menu appears.

2

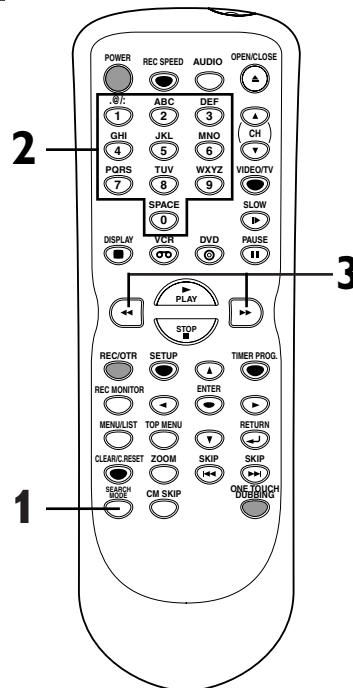
Enter your desired time to skip using **Number** buttons with in **30** seconds.

TIME SEARCH
2:50

3

Press **▶▶/◀◀** buttons to start time search.

If you want to go in the forward direction, press **▶▶** button. If you want to go in the reverse direction, press **◀◀** button. After time search, the unit will play the tape automatically.



Note : Tape Search

- These functions are not available during recording.
- Press **STOP** button to stop the search.
- If the end of the tape is reached during a Search, this unit will cancel the search and rewind the tape.



First:

To cue or review picture during playback (Picture Search):

Press ►►/◄◄ buttons during playback.

Press it again and the unit will search in super high speed. (in the SLP mode only)

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

Press PAUSE ■■ button. Each time you press the button, the picture will be forwarded by one frame.

If the picture begins to vibrate vertically during the still mode, stabilize the picture by pressing the CHANNEL ▲/▼ or CH▲/CH▼ buttons. If the picture is distorted or rolling vertically, adjust the vertical hold control on your TV, if equipped.

Counter Reset:

Press CLEAR/C.RESET button.

To playback in slow motion:

Press SLOW ► button during playback or the still mode.

If the noise bars appear on the TV screen, you can reduce it by pressing CHANNEL ▲/▼ or CH▲/CH▼ buttons.

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

Press AUDIO button on the remote control to select HIFI or MONO for playback sound mode.

- If you have connected a stereo TV to this unit, select “HIFI”.
- If you have connected a monaural TV to this unit, select “MONO”.

Your Selection Type of recorded tape	HIFI		MONO
	L-channel	R-channel	
non Hi-Fi tapes	Monaural	Monaural	Monaural
Hi-Fi tapes recorded in Hi-Fi stereo	L	R	L+R
Hi-Fi tapes recorded main audio program	Main audio program	Main audio program	Main audio program
Hi-Fi tapes recorded second audio program	Second audio program	Second audio program	Second audio program

Note : Pause Mode

- Still/Slow/Pause mode will be automatically cancelled after 5 minutes to prevent damage to the tape and the video head.
- To return to playback from the Picture Search/Still/Slow mode, press PLAY button.

Recording

Easy DVD recording

The following will help you to understand easily how to record to DVD discs.

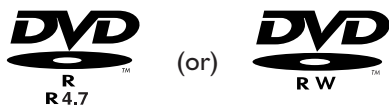
Note:

Make sure batteries are in the remote control and you have connected this unit to the TV correctly.

Step 1: Choose a disc type

There are several types of recordable DVD discs to choose from. Choose a recordable DVD disc type based on your playing/recording/editing requirements. See "DVD disc type" below.

This unit can record on the following type of discs only.



* This unit cannot record on the following discs.

- DVD-R General Ver 2.0 / 8x
- DVD-RW Ver 1.2 / 2-4x CPRM compatible

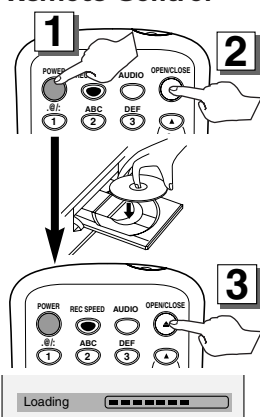
For example, when you want to record repeatedly on the same disc, or when you want to edit the disc after recording, select the rewritable DVD-RW type disc.

When you want to save recordings without any alteration, a non-rewritable DVD-R can be your choice.

Step 2: Insert a blank disc

- 1 Turn on the unit
- 2 Open the disc tray
- 3 Close the disc tray

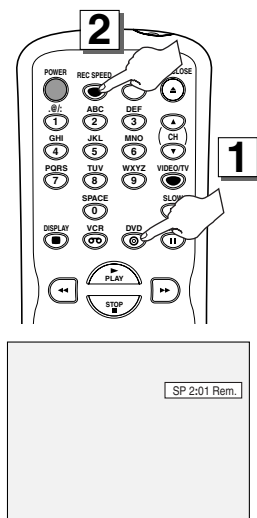
Remote Control



This operation may take a moment to be recognized.

Step 3: Select the Recording speed

- 1 Select the DVD mode
- 2 Select the recording speed



DVD disc types

☆☆☆ : Most suitable. ☆☆☆ : Can be used. ☆☆☆ : Some functions are limited. — : Cannot be used.

You want to	DVD-RW VR	DVD-RW Video	DVD-R
Record TV programs	☆☆☆	☆☆☆	☆☆
Reuse by deleting unwanted contents	☆☆☆	☆☆	—
Edit recorded contents	☆☆☆	☆☆	☆☆
Edit/Record from connected equipment	☆☆☆	☆☆☆	☆☆☆
Copy discs for distribution	☆☆ ^{*1}	☆☆☆	☆☆☆
Play on other DVD equipment	☆☆ ^{*1}	☆☆☆	☆☆☆

Features	DVD-RW VR	DVD-RW Video	DVD-R
Recording			
Rewritable?	Yes	Yes	No
Can create chapters at fixed intervals (auto.)	Yes	Yes	Yes
Can create chapters wherever you like (manual)	Yes	No	No
Can record 16:9 size pictures	Yes	Yes	Yes
Can record Copy-Once programs	Yes	No	No
Editing			
Can perform basic edit functions	Yes	Yes	Yes
Can perform advanced edit functions (Playlist edit)	Yes	No	No

^{*1} DVD-RW (VR mode) can only be played on DVD equipment that is VR compatible.

Note:
For details of the above functions and implied restrictions, see the explanations inside the manual.

▲ Important Format the disc

Insert the disc in the unit. Then format the disc from SETUP menu. Video format (Video mode) or Video recording format (VR mode) will be available depending on the disc type inserted. **This is necessary to prepare the disc for recording. Details are on pages 58-60.**

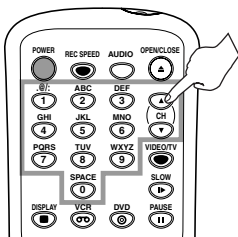
* When you format, the entire contents on that disc will be erased.

▲ You will need to finalize the discs recorded in Video mode to play in other DVD players.

Recording

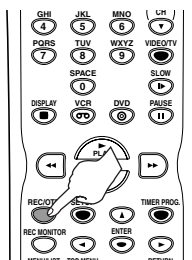
Easy DVD recording (Cont'd)

Step 4: Select the desired channel

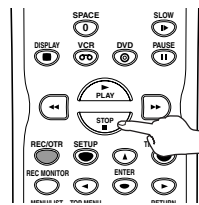


CH 1

Step 5: Press REC/OTR



Step 6: Stop the Recording



Writing to Disc 58%

This operation may take a few minutes to complete.

Playing the recorded contents

You can select the title you want to play from the displayed menu and immediately start to play. Recorded contents are very accessible on a disc, the procedure is really simple as you choose a title on a chapter from the menu screen.

What are titles and chapters?

The contents of DVD disc are generally divided into titles. Titles may be further subdivided into chapters.

Editing the recorded disc

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

You can edit the following from a title list.

- Putting names on titles
 - Setting pictures for thumbnails (VR mode)
 - Setting/clearing chapter markers
 - Deleting parts of titles or scenes (VR mode)
- Title Delete** : This deletes an entire scene permanently from the disc.
Scene Delete : This allows a user to edit within a specific scene (ex. commercials).

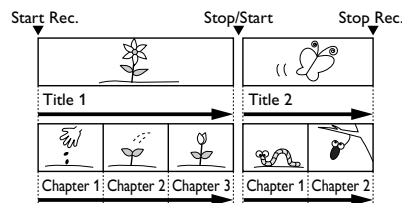
Original and Playlist (VR mode)

You can edit the recordings in Playlist without changing the original recordings. A Playlist does not take up much disc space.

What "Original" or "Playlist" is for?

Throughout this manual, you will find *Original* and *Playlist* to refer to the actual content and the edited version.

- **Original** content refers to what's actually recorded on the disc.
- **Playlist** content refers to the edited version of the disc; how the Original content is to be played.



▲ Finalizing a Disc

- This will allow a disc that is recorded on our unit to be played back on a different DVD player- without finalization it will not be playable on another player.
- After finalizing a disc if the recording was in video mode, you can not edit any information that is on that disc.
- If you have recorded in VR mode on DVD-RW disc then editing is still permitted after finalizing.



Recording

Information on DVD recording

Information

This unit can record to DVD-R and DVD-RW discs. When recording, you will need to select a recording format between Video mode and VR mode depending on the disc format. The disc format for DVD-R is always "Video format," so the recording format will be "Video mode".

On the other hand, when recording to DVD-RW, the recording format will be "Video mode" or "VR mode" because a disc format is available between "Video Recording format" and "Video format" for DVD-RW.

Logo	Attributes
 DVD-RW	12cm, single-sided, single layer rewritable disc Approx. max. recording time (SEP mode): 600 minutes (4.7GB)
 DVD-R	12cm, single-sided, single layer disc Approx. max. recording time (SEP mode): 600 minutes (4.7GB)

* This unit cannot record on the following discs.

- DVD-R General Ver 2.0 / 8x
- DVD-RW Ver 1.2 / 2-4x CPRM compatible






▲ Important

About Video mode and VR (Video Recording) mode

Video mode is the same recording format as prerecorded DVD-Video discs purchased locally, so that you can play in most DVD players. To play in other DVD players, you will need to finalize the disc (see page 71). If not finalized, you can play, record additionally or edit discs recorded in Video mode only with this unit.

VR (Video Recording) mode is a basic recording format for DVD-RW. You can record and edit repeatedly.

DVD players which are  compatible are capable of playing DVD-RW recorded in VR mode.

Disc type	Disc format	Functions
 DVD-RW	Video mode 	Playing, limited recording, limited editing
	VR mode 	Playing, recording, Original/Playlist editing
 DVD-R	Video mode 	Playing, limited recording, limited editing

Recording speed

You can select a recording speed among 6 options, and the recording time will depend on the recording speed you select as follows.

Recording speed	Recording time *	Video/Sound Quality
XP (1H)	60 min	☆☆☆☆☆☆ (Highest)
SP (2H)	120 min	☆☆☆☆☆
LP (4H)	240 min	☆☆☆☆
EP (6H)	360 min	☆☆☆
SLP (8H)	480 min	☆☆
SEP (10H)	600 min	☆ (Lowest)

* This table is designed for a new single-sided 12cm disc as the standard. The recording time are estimates and actual recording time may differ.

* The audio and video quality gets poorer as the recording time becomes longer.

Restrictions on recording

You cannot record copy-protected video using this unit. Copy-protected video includes DVD-Video discs and some satellite broadcasts.

If copy-protected material is encountered during a recording, the unit will pause or stop automatically and an error message will be displayed on-screen. Video that is "copy-once only" can only be recorded using a DVD-RW disc in VR mode with CPRM (see below).

When recording a TV broadcast or through an external input, you can display copy control information on screen.

What is "CPRM"?




CPRM is a copy protection system with scramble system regarding the recording of "copy once" broadcast programs. CPRM stands for Content Protection for Recordable Media. This unit is CPRM compatible, which means that you can record copy-once broadcast programs, but you cannot then make a copy of those recordings. CPRM recordings can only be made on DVD-RW discs formatted in VR mode, and CPRM recordings can only be played on players that are specifically compatible with CPRM.

Recording

Information on DVD recording (cont'd)

Information on copy control

Some satellite broadcasts include copy-protected information. For recording these, refer to the following.

Disc type / format	Copy-free	Copy-once	Copy-prohibited
 ver.1.1 ver.1.1 CPRM compatible	☆	—	—
	☆	☆	—
 ver.1.1 ver.1.1 CPRM compatible	☆	—	—
	☆	—	—
 ver.2.0	☆	—	—

☆ Recordable
 — Not Recordable

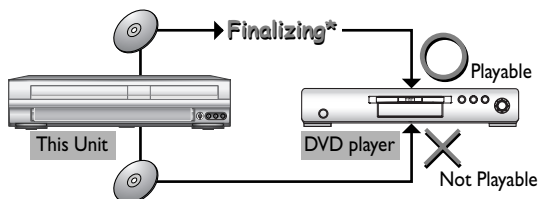
Note : Recording

- The audio and video quality gets poorer as the Recording time becomes longer.
- **This unit cannot record CD-R or CD-RW discs.**
- DVD-R/RW and CD-R/RW discs recorded on a personal computer or a DVD or CD recorder may not play if the disc is damaged or dirty or if there is dirt or condensation on the unit's lens.
- If you record a disc using a personal computer, even if it is recorded in a compatible format, there are cases in which it may not play because of the settings of the application software used to create the disc. (Check with the software publisher for more detailed information.)
- Discs recorded in Video mode on this unit cannot record additionally using other DVD recorders.

▲ Important

Making discs playable in other DVD player (Finalize)

After recording you must finalize disc in order to play it on other DVD units.



* You cannot finalize discs in other DVD recorders.

After finalizing:

- Once DVD-R/RW (Video mode) is finalized, you cannot record additionally or edit.
- Even if DVD-RW (VR mode) is finalized, you can record additionally to or edit.
- When DVD-R/RW (Video mode) is finalized, title menu will be created automatically.

To play in other DVD players, finalize discs recorded on this unit with the following condition.

Disc type	Mode
DVD-R ver.2.0	Video mode
DVD-RW ver.1.1 ver.1.1 CPRM compatible	Video mode VR mode

Recording

Formatting a disc

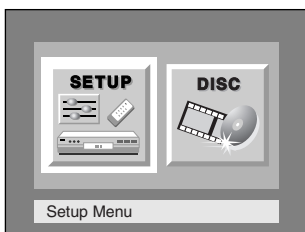
Choosing the recording format of a blank disc



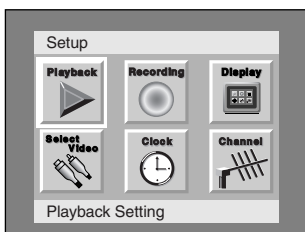
When inserting a blank disc, the unit will initialize the blank disc. After initialization, you can record to the disc with the recording format selected in SETUP menu. You can select at what length the recorder will create chapter mark on the DVD disc recording.

1 Press **SETUP** button to display **SETUP/DISC** menu. **SETUP/DISC** menu will appear.

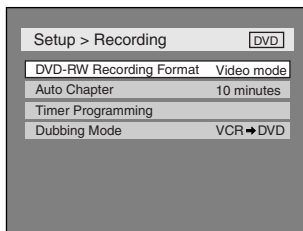
Screen:



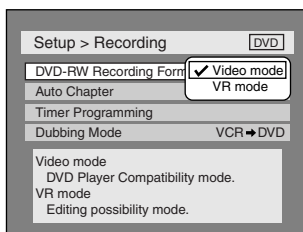
2 Select **"SETUP"** using **◀ / ▶** buttons, then press **ENTER** button. **SETUP** menu will appear.



3 Select **"Recording"** using **▲ / ▼ / ◀ / ▶** buttons, then press **ENTER** button. Recording menu will appear.

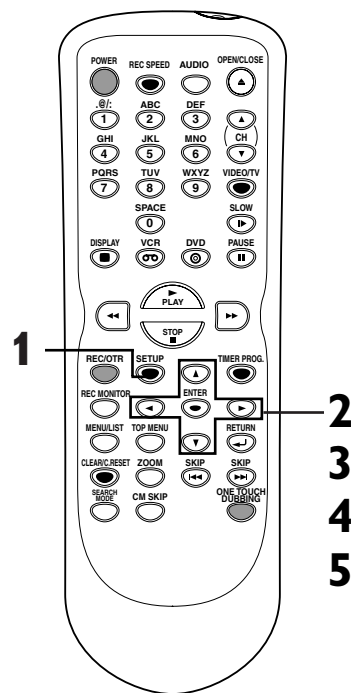


4 Select **"DVD-RW Recording Format"** using **▲ / ▼** buttons, then press **ENTER** button. Option window will appear.



Video mode has been selected as the default.

5 Select **"Video mode"** or **"VR mode"** using **▲ / ▼** buttons, then press **ENTER** button. The recording mode will be set.



Note : Disc Formatting

- The recording format setting is effective only for DVD-RW discs. You cannot change the recording format on a DVD-R disc. DVD-R discs will always be in Video mode.
- You can not mix disc recording formats on a single DVD discs. When you load a disc once recorded before, the recording format cannot be changed even if you change it in SETUP menu.

Note : Disc Error Message

- When inserting a blank DVD+R or DVD+RW disc, the error message ("Disc Error") will appear. This unit is not compatible with a DVD+R/RW disc.
- PLAYLIST will be created automatically when recording on DVD-RW in VR mode.

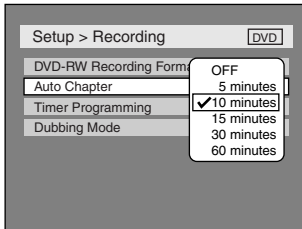
Recording

Formatting a disc (cont'd)

6

Select **“Auto Chapter”** using ▲ / ▼ buttons, then press **ENTER** button.

Option window will appear.



“10 minutes” has been selected as the default.

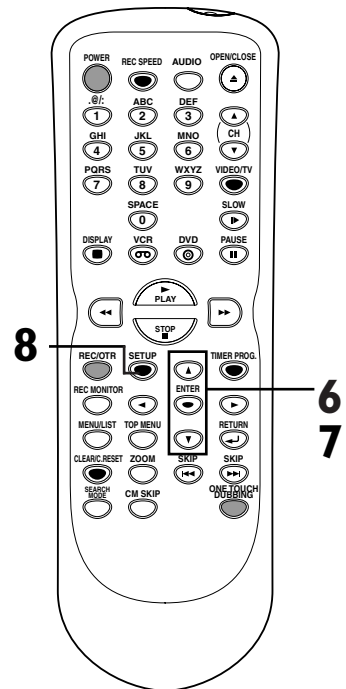
7

Select a desired time option using ▲ / ▼ buttons, then press **ENTER** button.

Chapter marks will be placed on the DVD recording at the selected time interval.

8

Press **SETUP** button to exit.



Note

- In Video mode, the actual time interval for chapter mark may be shorter than the selected time for 20 seconds or less.

Recording

Formatting a disc (cont'd)

Reformatting a disc

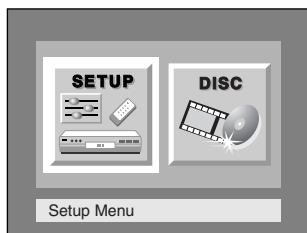


If you are using a DVD-RW disc, by default it will be Video mode. You can change this to VR mode from SETUP menu.

1

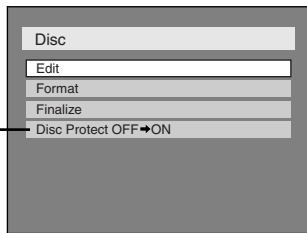
Place DVD-RW disc into the unit.

Press **SETUP** button to display **SETUP/DISC** menu. **SETUP/DISC** menu will appear. Screen:



2

Select **"DISC"** using **◀ / ▶** buttons, then press **ENTER** button. **DISC** menu will appear.

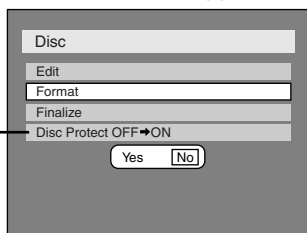


*VR mode only

3

Select **"Format"** using **▲ / ▼** buttons, then press **ENTER** button.

Option window will appear.

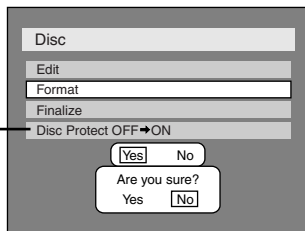


*VR mode only

4

Select **"Yes"** using **◀ / ▶** buttons, then press **ENTER** button.

Option window will appear.

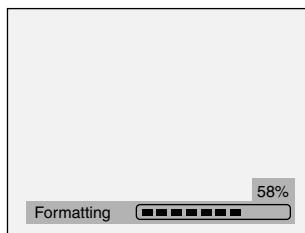


*VR mode only

5

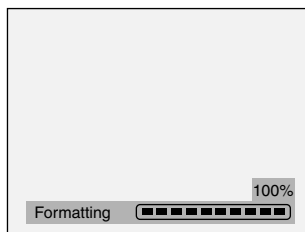
Select **"Yes"** using **◀ / ▶** buttons, then press **ENTER** button.

Formatting will start.

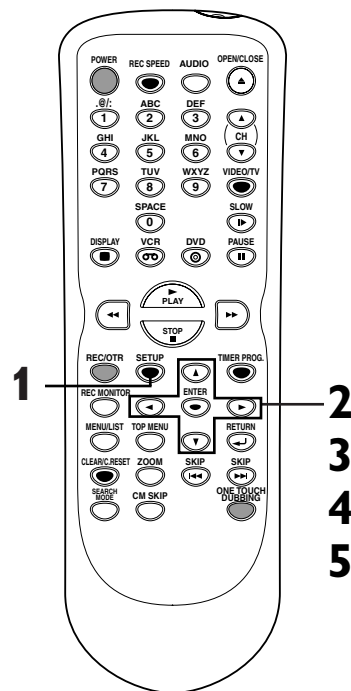


6

Formatting is complete. 100% will be indicated.



This operation may take a few minutes to complete.



⚠ Caution

- When you reformat the disc, the contents of the disc will be erased.
- If you want to cancel format at step 5, select "No".

Recording

Basic recording



Follow the steps below to record TV programs.

First:

1

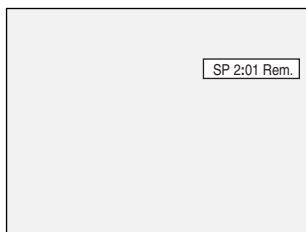
Turn on the unit and load a recordable disc.

Make sure that the TV is set on the DVD/VCR.

This operation may take a few minutes to complete.

2

Select a recording speed using REC SPEED button.



Refer to "Recording speed" on page 56.

3

Make sure that the recording format is set to the desired mode.

Refer to "Formatting a disc" on pages 58-60.

When a DVD-RW disc is loaded:

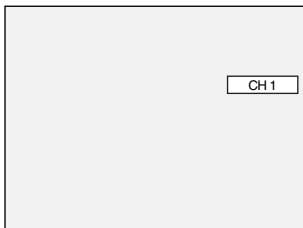
You can choose Video mode or VR mode from SETUP menu. "Video mode" has been selected as the default. Refer to "Choosing the recording format of a blank disc" on pages 58-59.

When a DVD-R disc is loaded:

DVD-R discs will always be in Video mode.

4

Select a desired channel to record using CH ▲ / ▼ buttons or number buttons.



5

Press REC/OTR button to start recording.

● mark will be displayed for 5 seconds.

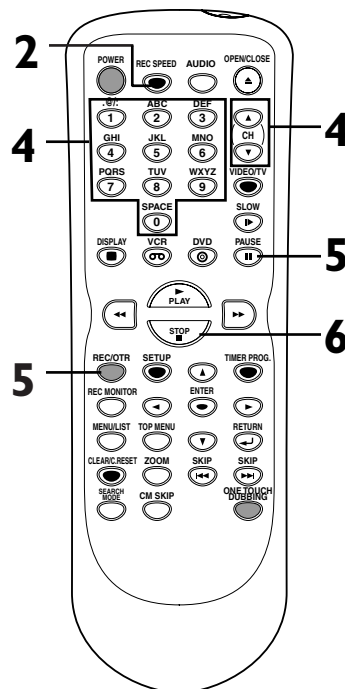


To pause the recording, press PAUSE ■■ button. Press REC/OTR button to restart the recording.

6

Press STOP ■ button to stop the recording.

This operation may take a few minutes to complete.



Note : Recording

- Recording starts immediately and continues until the disc is full or you stop recording.
- When the clock setting has not been made, the space for a date and time of title names in the original or playlist will be blank.
- You cannot mix two formats on one DVD-RW disc. When you load a disc once recorded before, the recording format cannot be changed even if you change it in SETUP menu.
- You cannot change the recording speed during the REC pause mode.
- You can change a channel during the REC pause mode.

Recording

Basic recording (cont'd)

Checking the recording picture quality



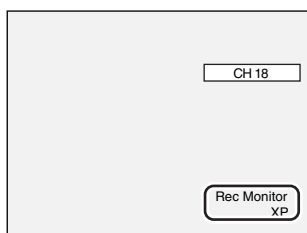
You can confirm the recording picture quality with the recording speed you have selected before attempting to record to a DVD disc.

First:

1

While the unit is in **STOP** or **REC** with a DVD disc inserted, press **REC MONITOR** button.

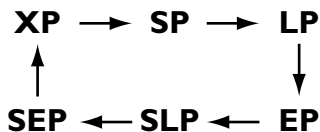
The TV program will be on the screen and the recording picture quality with the recording speed you have selected.



If you want to change the recording speed, press **REC SPEED** button repeatedly.

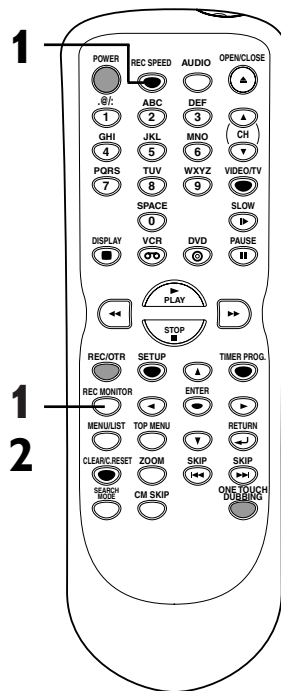
The recording speed will be changed as you press the button as shown. Refer to "Recording speed" on page 56.

- You cannot change the recording speed during recording.



2

Press **REC MONITOR** button again to exit.



Note : Sound Quality.....

- You cannot check the recording sound quality with the Rec monitor function.

Recording

One-touch timer recording



This is a simple way to set the recording time in blocks of 30 minutes. Check that the disc you are recording onto has enough space for the time you set.

When the recording finishes the recorder automatically goes into standby.

First:

1

Turn on the unit and load a recordable disc.

Make sure that the TV input is set on the DVD/VCR.

This operation may take a few minutes to complete.

2

Select a recording speed using REC SPEED button.

Refer to "Recording speed" on page 56.

3

Make sure that the recording format is set to the desired mode.

Refer to "Formatting a disc" on pages 58-60.

When a DVD-RW disc is loaded:

You can choose Video mode or VR mode from SETUP menu.

"Video mode" has been selected as the default. Refer to "Choosing the recording format of a blank disc" on pages 58-59.

When a DVD-R disc is loaded:

DVD-R discs will always be in Video mode.

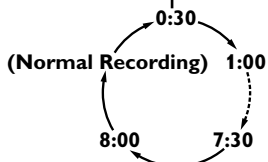
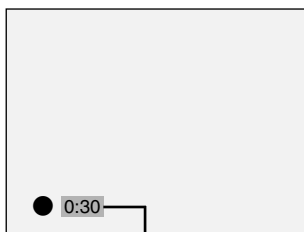
4

Select a desired channel to record using CH ▲ / ▼ buttons or number buttons.

5

Press REC/OTR button, then press REC/OTR button repeatedly until a desired recording length (30 minutes to 8 hours) appears on the TV screen.

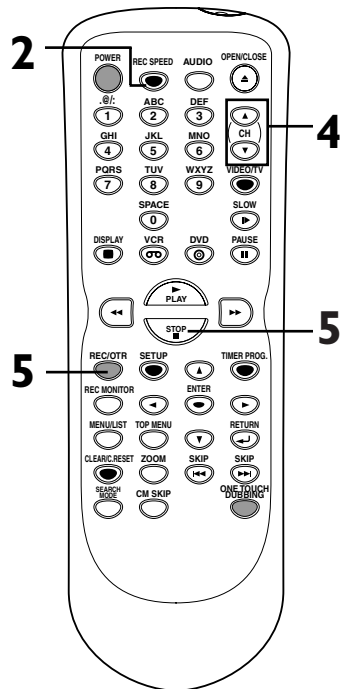
Recording will start.



When reaches the specified time, the unit will be turned off automatically.

To cancel the one-touch timer recording within the specified time, press STOP ■ button.

This operation may take a few minutes to complete.



Note : Automatic Turn Off

- The remaining recording time will appear on the display panel during an OTR. Press DISPLAY button to see it on the TV screen.
- You cannot pause an OTR.
- The unit will turn off automatically under the conditions following.
 - 1) No space remained on the disc.
 - 2) When a power failure occurs.
- If OTR is finished in DVD during playback or REC mode in VCR, the DVD will be in STOP mode and the VCR keeps the current mode.

Recording

Timer recording



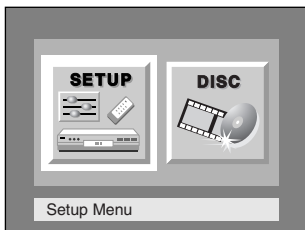
You can program the DVD/VCR to record up to 8 programs, up to a year in advance. Daily or weekly program recordings are also available.

- Be sure to set the clock before making a timer programming.
- Insert a recordable disc or a videotape with a recording safety tab.

1

Press **SETUP** button to display **SETUP/DISC** menu. **SETUP/DISC** menu will appear.

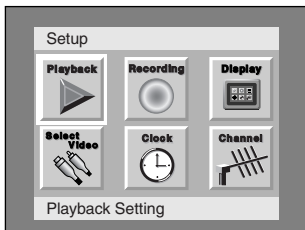
Screen:



2

Select **"SETUP"** using **◀/▶** buttons, then press **ENTER** button.

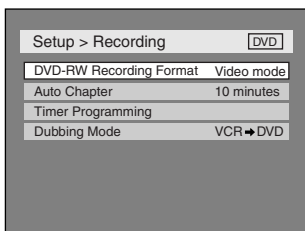
SETUP menu will appear.



3

Select **"Recording"** using **▲ / ▼ / ◀ / ▶** buttons, then press **ENTER** button.

Recording menu will appear.



4

Select **"Timer Programming"** using **▲ / ▼** buttons, then press **ENTER** button.

Timer Programming list will appear.

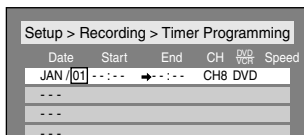


5

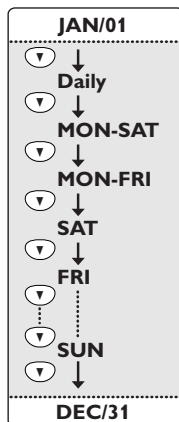
Select an empty program line using **▲ / ▼** buttons, then press **ENTER** button.

6

Enter the date using **▲ / ▼** buttons, then press **▶** button.



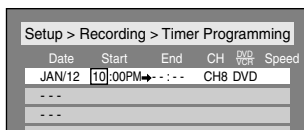
e.g. January 1st



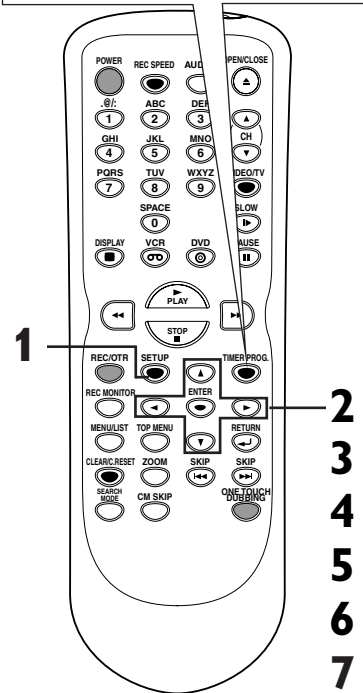
When pressing **▼** button at the current date, timer recording mode will change as follows.

7

Enter the time to start and to end using **▲ / ▼** buttons, then press **▶** button.



You can choose the timer programming menu by pressing **TIMER PROG.** button. In this case, continue with step 5.



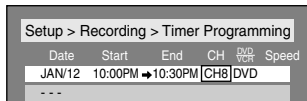
Note : Clock Setting

- If you have not set the clock yet: A clock setting window will appear after step 4. Continue with step 4 in "Auto Clock Setting" on page 18 or "Manual Clock Setting" on pages 19-20 before making a timer programming.
- Press **◀** or **▶** buttons to move the cursor to the left and the right in the timer programming menu.

Recording

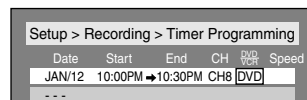
Timer recording (cont'd)

- 8** Select the channel number to record using ▲ / ▼ buttons, then press ► button.



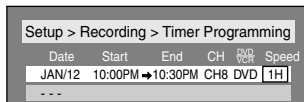
To record from the AV input jacks, L1 or L2.

- 9** Select a recording media using ▲ / ▼ buttons, then press ► button.



- To record on to a tape, select VCR.
- To record on to a disc, select DVD.

- 10** Select a recording speed using ▲ / ▼ buttons.



Refer to "Recording speed" on page 56 for DVD or page 50 for VCR.

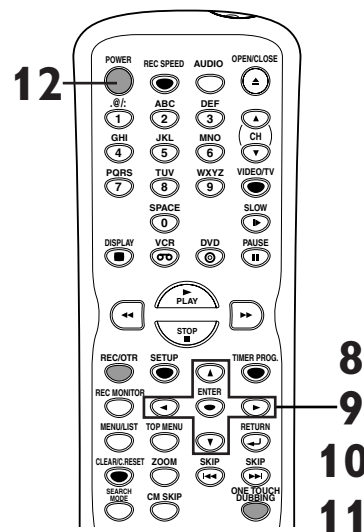
- 11** Press ENTER button when all information required is entered.

Your program setting will be stored.

- To set another program, repeat steps 5 to 11.
- To exit, press SETUP button.

- 12** Press POWER button to turn off.

Ⓜ indicator will appear on the front display.



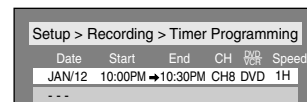
Note : Automatic Turn On

- After step 12, the unit will be turned on automatically 2 minutes (For VCR recording, 10 seconds) in advance of the recording time. The recording will start at the recording time you set.

Checking, canceling, or correcting the timer programming information

- 1** Press POWER button so that Ⓜ indicator disappears from the front display.

- 2** Press TIMER PROG. button. Timer Programming list will appear.



- 3** Check the information on the list.

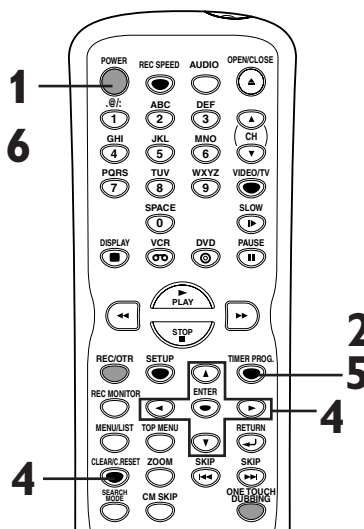
- 4** To clear the timer programming, select your desired program using ▲ / ▼ buttons, then press CLEAR/C.RESET button.

To correct the timer programming, select your desired program using ▲ / ▼ buttons, then press ENTER button.

Next, correct the timer programming using ▲/▼/◀▶ buttons. Finally, press ENTER button again.

- 5** Press TIMER PROG. button to exit.

- 6** Press POWER button to return to the timer standby mode.



Note : Timer Programming

- Press TIMER PROG. button to check the timer programming in process. When the timer recording is proceeding, that program will be red highlighted. In this case, you cannot select any other program.








To stop the timer recording in process

Press STOP ■ button to stop the disc recording or STOP/EJECT ■ ▲ to stop the tape recording on the front panel of the main unit. STOP ■ button on the remote control will not work.

Recording

Timer recording (cont'd)

Hints for timer recording

- If there is a power failure or this unit has been unplugged for more than 30 seconds, the clock setting and all timer settings will be lost.
- If a disc is not on the tray, the DVD indicator on the front panel flashes and timer recording cannot be performed. Please insert a recordable disc.
- If a tape with a record tab is not in the cassette compartment, the VCR indicator on the front panel flashes and timer recording cannot be performed. Please insert a recordable tape.
- When all the timer recording is completed, the  indicator flashes. To play or eject the recorded disc (or the tape), press POWER button first and then press PLAY  or OPEN/CLOSE  (or STOP/EJECT   button.
- **▲ Important The timer recording can not be performed in DVD and VCR at the same time. If you set two programmings with the same channel and time both in DVD and VCR, the programming that has priority will be recorded (see below for details).**
- During timer recording or timer standby ( indicator is on the front display), any operations on the unit will not be available. To make these operations available, cancel the timer recording or timer standby first ( indicator disappears).
- To cancel the timer standby mode, press POWER button.
- When the Start and the End time are the same, the length of the recording will be set for 24 hours. When the disc reaches at the end during the recording, the unit turns itself off.
- When the programmed Start and End time are earlier than the current time, the recording will be set on the same date in the next year.
- If your programmed Start time for DVD recording is within 2 minutes from the current time, the power will turn on for recording standby right after you turn the power off. For a videotape recording, the power will turn on shortly before the Start time.
- If a videotape ends during timer recording, the unit will stop, eject the videotape, and turn itself off.
- When two or more programmings are overlapped, "Overlap" will be displayed.

The priority of overlapped settings

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

A timer recording of lower priority will be canceled, start from the middle or stop on the way.

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

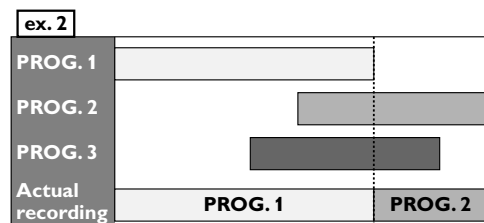
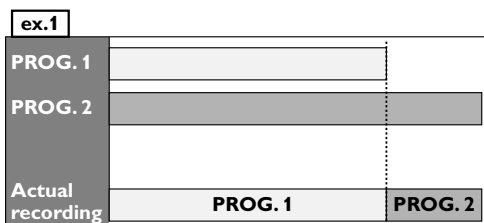
■ A programming set previously has priority

When the starting time is same:

A program with a lower program number (PROG.1) has priority.

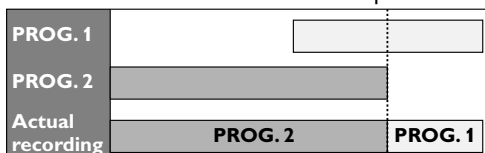
When some programming have been made at the end time of the programming currently being recorded:

A program with a lower program number (PROG. 2) has priority.



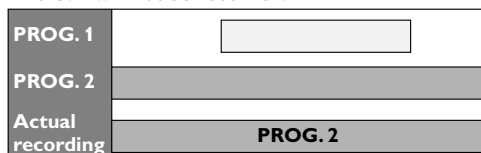
■ When the recording time is partially overlapped:

PROG. 1 will start after PROG. 2 is complete to be recorded.



■ When the recording time is entirely overlapped:

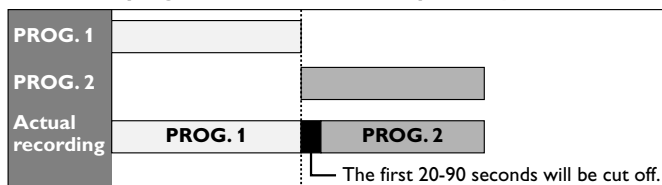
PROG. 1 will not be recorded.



Note for DVD timer recording

- When the recording time of two programs are overlapped, or the End time of a program and the Start time of another is the same, the first 20-90 seconds of the subsequent program will be cut off.

■ When the end time of the programming currently being recorded and the program to be recorded sequentially are same:

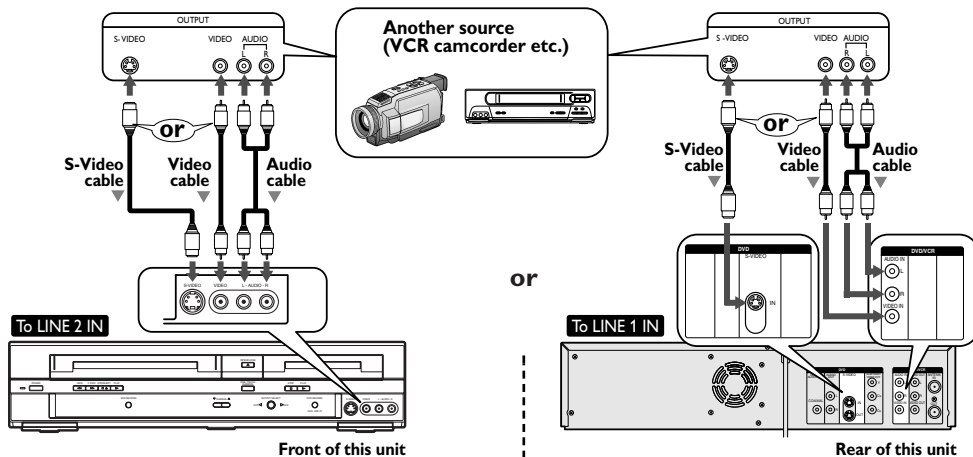


Recording

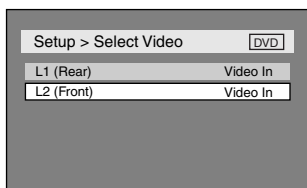
Settings for an external source

Connection to an external source

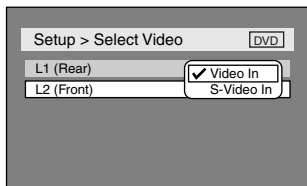
Connect the external source properly to the unit by using input jacks either LINE2 (Front) or LINE1 (Rear). When you want to record to a tape, use either DVD/VCR VIDEO IN jack (Rear) or VIDEO input jack (Front). S-VIDEO input is useful only in DVD mode. Use S-Video or Video cable, and an Audio cable for this connection.



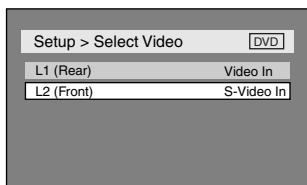
1. Press **SETUP** button to display **SETUP/DISC** menu.
2. Select **"SETUP"** using **◀/▶** buttons, then press **ENTER** button.
3. Select **"Select Video"** using **▲/▼/◀/▶** buttons, then press **ENTER** button.



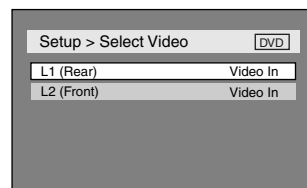
4. Select **"L2 (Front)"** using **▲/▼** buttons, then press **ENTER** button.



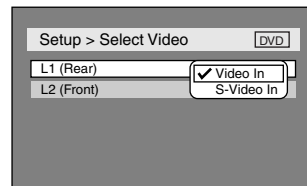
5. Select the input jack type to connect using **▲/▼** buttons, then press **ENTER** button. If you want to use S-VIDEO IN, select **"S-Video In"***. If you want to use VIDEO IN (Composite), select **"Video In"**.



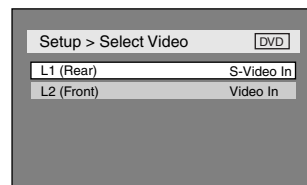
1. Press **SETUP** button to display **SETUP/DISC** menu.
2. Select **"SETUP"** using **◀/▶** buttons, then press **ENTER** button.
3. Select **"Select Video"** using **▲/▼/◀/▶** buttons, then press **ENTER** button.



4. Select **"L1 (Rear)"** using **▲/▼** buttons, then press **ENTER** button.



5. Select the input jack type to connect using **▲/▼** buttons, then press **ENTER** button. If you want to use S-VIDEO IN, select **"S-Video In"***. If you want to use VIDEO IN (Composite), select **"Video In"**.



Recording

Settings for an external source (cont'd)


Recording from an external source



Before recording from an external source, see the instruction for the connection on page 67.

1. Turn the TV and the DVD/VCR on, and be sure to select the input of the TV to which the DVD/VCR is connected.

2. When you want to record to a disc: Press: 





Press **OPEN/CLOSE**  button to open the disc tray, then place the disc to record onto, then press open/close again.

This operation may take a few minutes to complete.

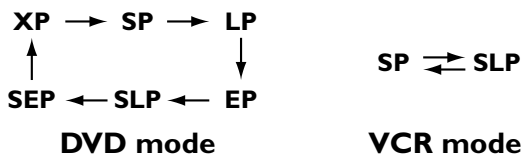
When you want to record to a tape: Press: 

Insert the tape with a safety tab into the cassette compartment.

3. Select the input (L1 or L2) to which the external equipment is connected.

- To use the input jacks on the back of this unit, select "L1" position by pressing [0],[0],[1] on the remote control or the CH  /  buttons.
- To use the input jacks on the front of this unit, select "L2" position by pressing [0],[0],[2] on the remote control or the CH  /  buttons.

4. Select a recording speed using **REC SPEED** button. Refer to "Recording speed" on page 56 for DVD or page 50 for VCR.



5. Press **REC/OTR** button on the DVD/VCR to start recording.

6. Press **PLAY** button on the external source that you are recording from.

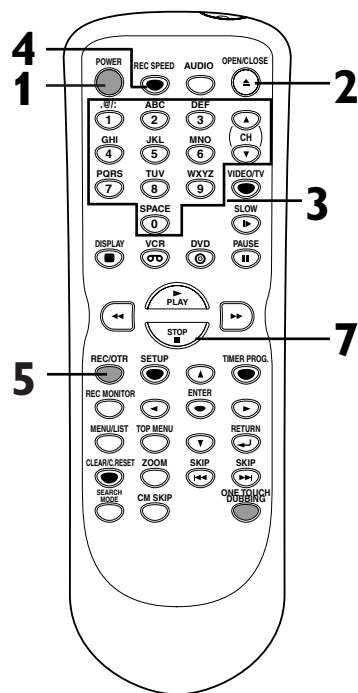
7. For disc:

Press **STOP**  button on the DVD/VCR to stop recording.

This operation may take a few minutes to complete.

For tape:

Press **STOP/EJECT**   button on the unit to stop recording.



Recording

Dubbing Mode



▲ Important

You can copy a DVD disc to a videotape or copy a videotape to a DVD disc. This function will be possible only if the DVD disc or the videotape is not copy protected.

Before starting this function, prepare for the recording on the DVD-R/RW disc or the videotape. Refer to pages 50, 61-62.

Make sure:

- Insert a disc and a videotape with a safety tab.

Note for recording to a tape:

- The videotape's record tab is intact.
- The videotape has enough time to record the DVD disc.

Note for recording to a disc:

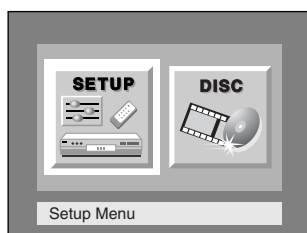
- The DVD disc is compatible with the recording mode. Refer to pages 56-57.

1

Press **SETUP** button to display **SETUP/DISC** menu.

SETUP/DISC menu will appear.

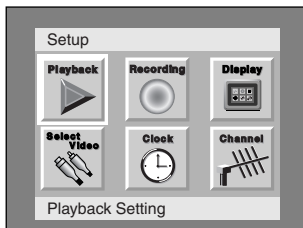
Screen:



2

Select **"SETUP"** using **◀ / ▶** buttons, then press **ENTER** button.

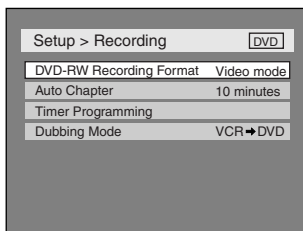
SETUP menu will appear.



3

Select **"Recording"** using **▲ / ▼** buttons, then press **ENTER** button.

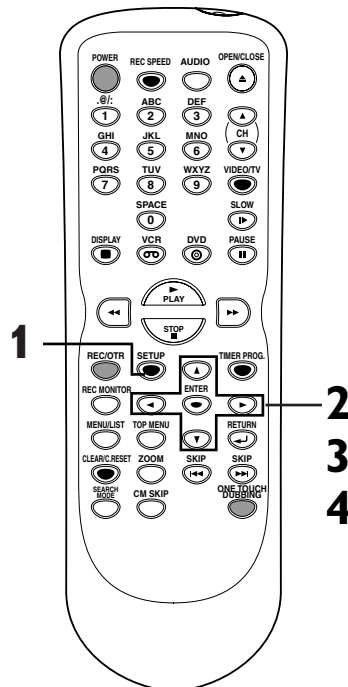
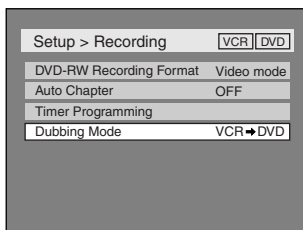
Recording menu will appear.



4

Select **"Dubbing Mode"** using **▲ / ▼** buttons, then press **ENTER** button.

Option window will appear.



Note : Videotape tracking control

For VCR to DVD duplication:

- After start VCR to DVD duplication, the picture may be distorted because of the auto tracking function of the videotape.

This is not a malfunction. Be advised to playback the tape until the picture is stabilized, then set the starting point which you wish to start recording, and start VCR to DVD duplication.

Instructions continue on page 70.

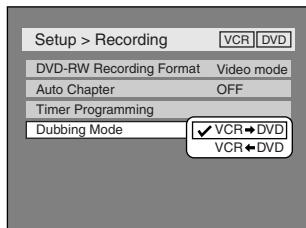
Recording

Dubbing Mode (cont'd)

VCR to DVD

5

Select "VCR ⇒ DVD" using ▲ / ▼ buttons, then press ENTER button.



6

Press SETUP button to exit SETUP menu.

Make sure to select a recording speed using REC SPEED button.

Press:

7-a

Press PLAY ► button on the unit, and then press PAUSE button at the point you wish to start recording.

8

Press ONE TOUCH DUBBING button on the unit or ONE TOUCH DUBBING button on the remote control.

VCR to DVD duplication will start.

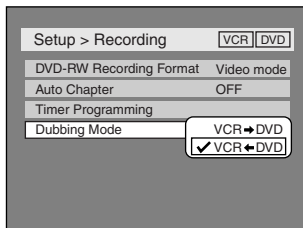
9-a

Press STOP ■ button on the unit or STOP ■ button on the remote control to stop the recording.

DVD to VCR

5

Select "VCR ⇐ DVD" using ▲ / ▼ buttons, then press ENTER button.



6

Press SETUP button to exit SETUP menu.

Press:

Make sure to select a recording speed using REC SPEED button.

Press:

7-b

Press PLAY ► button on the unit, and then press PAUSE button at the point you wish to start recording.

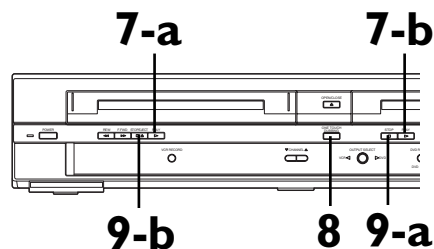
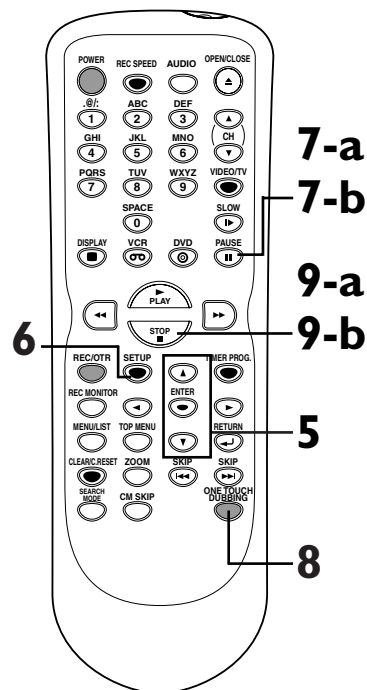
8

Press ONE TOUCH DUBBING button on the unit or ONE TOUCH DUBBING button on the remote control.

DVD to VCR duplication will start.

9-b

Press STOP/EJECT ■ ▲ button on the unit or STOP ■ button on the remote control to stop the recording.



Note : Dubbing

- When you turn off the unit after set the Dubbing Mode to VCR ⇐ DVD, the setting will be set to VCR ⇒ DVD automatically.
- Dubbing Mode is available only if the tape or disc is not copy protected.
- You cannot change the output mode during VCR to DVD or DVD to VCR duplication.

For VCR to DVD duplication:

- The playback sound mode is followed by the setting of VCR playback sound mode on page 53. Set the playback sound mode to which you wish to record to the DVD.

Recording

Finalizing the discs



▲ Important

You will need to finalize discs recorded in Video mode to play in other DVD players.

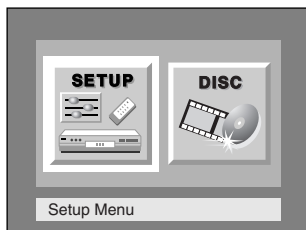
Finalizing may take several minutes up to an hour. (A disc recorded in Video mode can take up to 15 minutes. A disc recorded in VR mode can take up to 60 minutes.) A shorter recording period on the disc will require a longer time period for finalization. Do not unplug the power cord during finalization.

Details are on pages 56-57.

1

Press **SETUP** button to display **SETUP/DISC** menu. **SETUP/DISC** menu will appear.

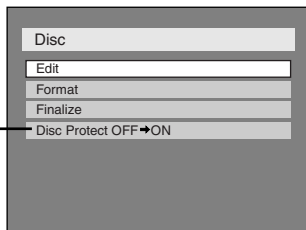
Screen:



2

Select **"DISC"** using **◀/▶** buttons, then press **ENTER** button.

DISC menu will appear.

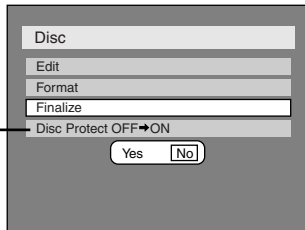


*VR mode only

3

Select **"Finalize"** using **▲/▼** buttons, then press **ENTER** button.

Option window will appear.

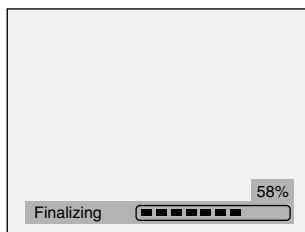


*VR mode only

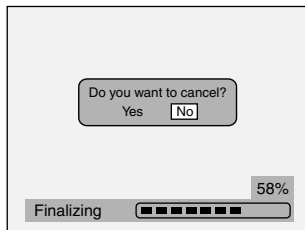
4

Select **"Yes"** using **◀/▶** buttons, then press **ENTER** button.

Finalizing will start.



To cancel finalizing, press **STOP** button.

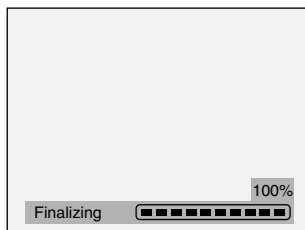


Select **"Yes"** using **◀/▶** buttons, then press **ENTER** button.

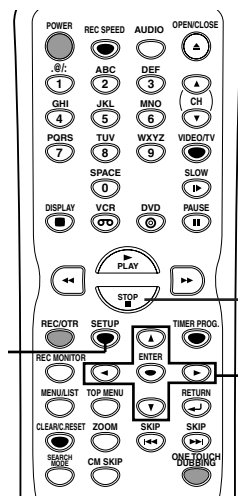
Finalizing is cancelled, then the unit will be in stop mode.

5

Finalizing is complete.

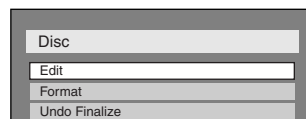


This operation may take a few minutes to complete.




Note : Finalizing

- Finalizing discs in Video mode automatically create title menus.
- Once you have finalized a disc recorded in Video mode, you cannot edit or record anything else on that disc. Discs recorded in VR mode can still be recorded and edited on this unit even after finalized.
- When you insert a DVD-RW disc finalized with this unit, "Undo Finalize" will appear instead of "Finalize".



To release the finalizing for the disc, select **"Undo Finalize"** at step 3.

- If  appear when pressing **STOP** button, you cannot cancel finalizing because the finalizing process is in progress. When selecting **"No"** and press **ENTER** or **RETURN** button, finalizing will be continued.

▲ Important You cannot cancel finalizing of a DVD-R disc once it has started.

***DO NOT** power off during finalizing, this will result in malfunction.

Recording

Setting a disc to protect



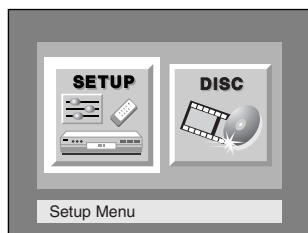
⚠ Important

To prevent accidental recording, editing or erasing of titles, you can protect them by going to the DISC menu and following the steps bellow.

1

Press **SETUP** button to display **SETUP/DISC** menu. **SETUP/DISC** menu will appear.

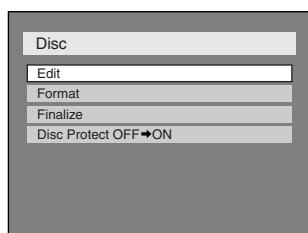
Screen:



2

Select **"DISC"** using **◀/▶** buttons, then press **ENTER** button.

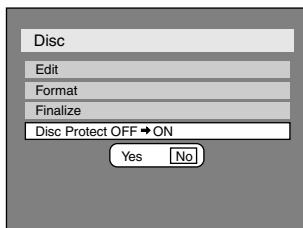
DISC menu will appear.



3

Select **"Disc Protect OFF → ON"** using **▲/▼** buttons, then press **ENTER** button.

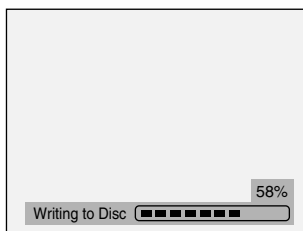
Option window will appear.



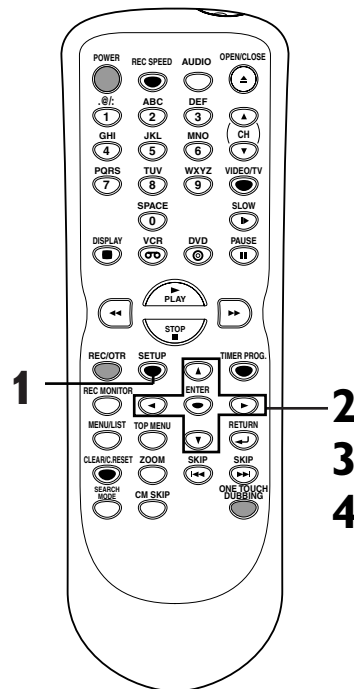
4

Select **"Yes"** using **◀/▶** buttons, then press **ENTER** button.

A disc will be protected.



This operation may take a few minutes to complete.

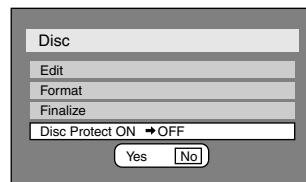


Note : Disc Protect

- The Disc Protect setting is available only when a disc with VR mode is inserted.
- You can select only Disc Protect Menu when a protected disc is inserted.

To cancel the disc protect:

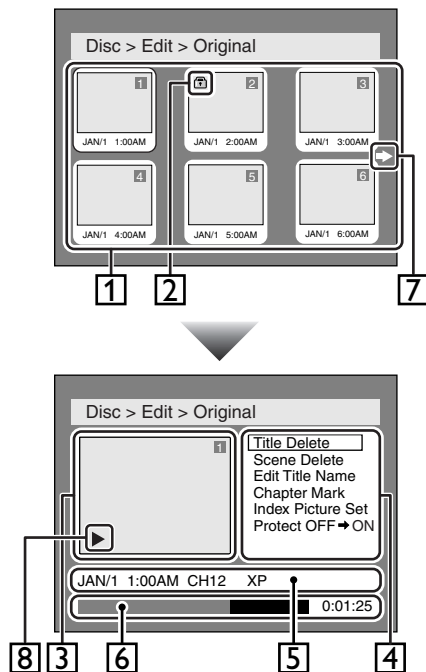
- When you insert a disc protected with this unit, "Disc Protect ON → OFF" will appear instead of "OFF → ON".



To release the protect for the disc, select "Disc Protect ON → OFF" at step 3, then select "Yes".

Guide to a title list

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



1. Titles recorded on the disc can be selected for editing purposes by pressing ENTER button with the cursor on the title.
2. Protect icon will appear if the title has been protected.
3. The selected title thumbnails from the title list.
4. This menu provides you with all the editing options.
The available menu options depend on disc and recorded format type.
5. Details of the title, which can be changed through editing.
6. Time status bar of the title to show length of title.
7. The arrow icon, which means the title list includes a next or a previous page. Press ► or ◀ button by following direction of the icon.
8. Playback status of the current disc.

Editing discs in Video mode

You can edit discs in Video mode for the following items. Note that once you edit titles, they will not remain as recorded originally.

- Deleting titles (Refer to page 75)
- Putting names on titles (Refer to pages 76)
- Setting or clearing chapter markers (Refer to page 77)

Note : Disc Editing

- Once a disc is finalized, then editing the disc or recording to the disc will not be available. (Except DVD-RW discs in VR mode.)
- A playlist is not available with the DVD-R discs and DVD-RW discs in Video mode.

Editing discs in VR mode

For discs in VR mode, you can edit from “Original” menu or “Playlist” menu, which is created from the original.

Editing original titles

The following items can be used to edit the original titles.

- Deleting titles (Refer to page 78)
- Deleting parts of titles (Refer to pages 79-80)
- Naming Titles (Refer to pages 80-81)
- Setting or clearing chapter markers (Refer to pages 82-83)
- Setting pictures for thumbnails (Refer to pages 83-84)
- Title protection (Refer to page 85)
- Releasing titles from protection (Refer to page 86)

Editing playlists

You can create a playlist from original titles, so that you can edit as you prefer without losing original titles.

The following items you can edit with a playlist.

- Deleting titles (Refer to page 87)
- Deleting parts of titles (Refer to pages 88-89)
- Naming Titles (Refer to pages 89-90)
- Setting or clearing chapter markers (Refer to pages 91-92)
- Setting pictures for thumbnails (Refer to pages 92-93)
- Adding titles to a Playlist (Refer to page 94)
- Deleting a Playlist (Refer to page 95)

▲ Important : Rearranging Titles

- Original titles once edited will not remain as recorded originally. When you want to leave the original as it is, edit the playlist as you prefer. (Refer to pages 87-95)

Note : Editing

- DVD-RW editing possibilities are explained on pages 75-95.
- DVD-R editing possibilities are explained on pages 96-97.

Deleting titles



▲ Important

- You can delete titles which you do not need anymore.

▲ Caution

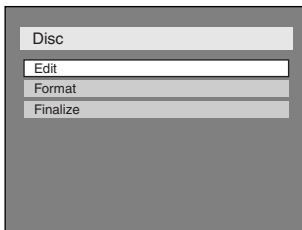
- Be sure to know that titles once deleted, cannot be brought back to the disc.

When the last title in the title list in Video mode is deleted, the disc space available for recording will be increased.

First:

1

Press **SETUP** button. Select **"DISC"** using **◀ / ▶** buttons, then press **ENTER** button. DISC menu will appear.

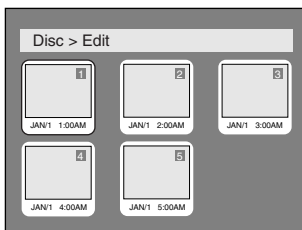


2

Select **"Edit"** using **▲ / ▼** buttons, then press **ENTER** button.

Titlelist will appear.

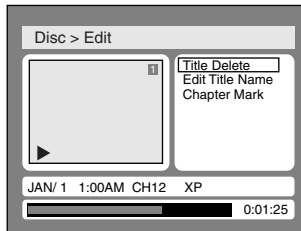
Screen:



3

Select a desired title using **▲ / ▼ / ◀ / ▶** buttons, then press **ENTER** button.

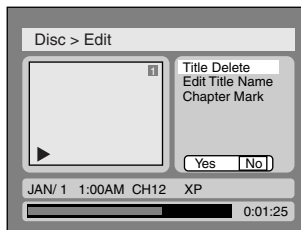
Edit menu will appear.



4

Select **"Title Delete"** using **▲ / ▼** buttons, then press **ENTER** button.

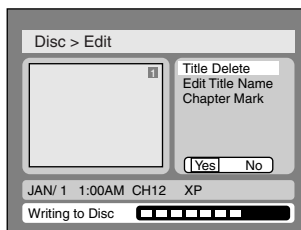
Option window will appear.



5

Select **"Yes"** using **◀ / ▶** buttons, then press **ENTER** button.

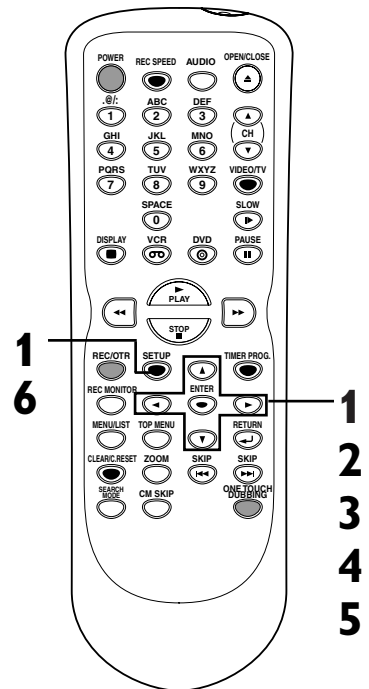
Title will be deleted.



This operation may take a few minutes to complete.

6

After writing to disc is completed, press **SETUP** button to exit DISC menu.



Putting names on titles

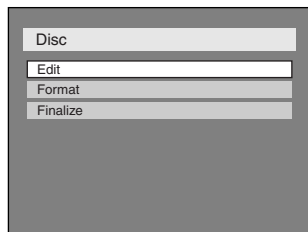


You can put title names on titles and change the title names from this menu.

The names you put on the titles will be displayed on a titelist.

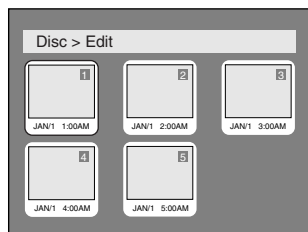
First:

1 Press **SETUP** button. Select **"DISC"** using **◀/▶** buttons, then press **ENTER** button. DISC menu will appear.

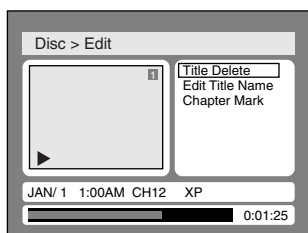


2 Select **"Edit"** using **▲/▼** buttons, then press **ENTER** button. Titelist will appear.

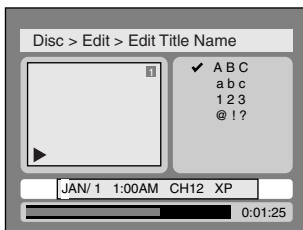
Screen:



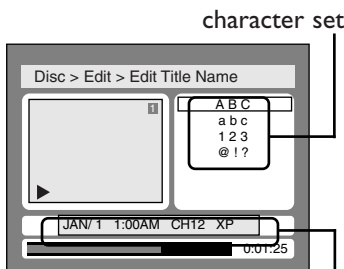
3 Select a desired title using **▲/▼/◀/▶** buttons, then press **ENTER** button. Edit menu will appear.



4 Select **"Edit Title Name"** using **▲/▼** buttons, then press **ENTER** button. A window for entering a title name will appear.

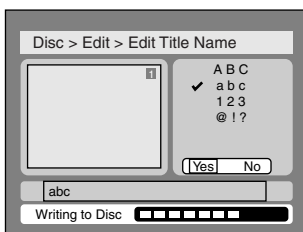


5 To enter a title name, follow the steps of "Guide to edit title name" on this page.



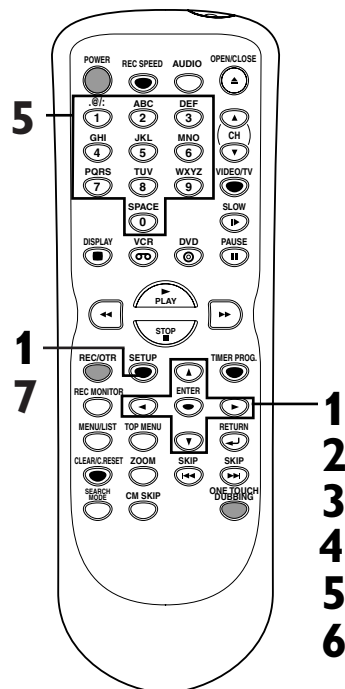
When you finish entering a title name, press **ENTER** button.

6 Select **"Yes"** using **◀/▶** buttons, then press **ENTER** button. The name you entered will be activated for the title.



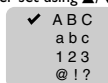
This operation may take a few minutes to complete.

7 After writing to disc is completed, press **SETUP** button to exit DISC menu.



[Guide to edit title name]

[Step1]: Select a desired character set using **▲/▼** buttons, then press **ENTER** button.



[Step2]: Press Number buttons following by the list below.

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

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

- To delete letters, press **CLEAR/C.RESET** button repeatedly. Holding **CLEAR/C.RESET** button to delete all letters.
- To go on to the next entering area for letters, press **▶** button.
- You can enter up to 30 letters.

Setting or clearing chapter markers

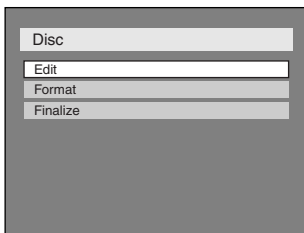


You can put chapter markers in each title. Once a chapter is marked, you can use it for the chapter search feature.

You can set chapter markers at a specified time you selected for titles which are longer than 5 minutes.

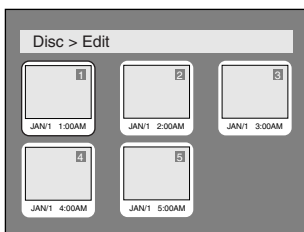
First:

1
Press **SETUP** button. Select **"DISC"** using **◀ / ▶** buttons, then press **ENTER** button. DISC menu will appear.

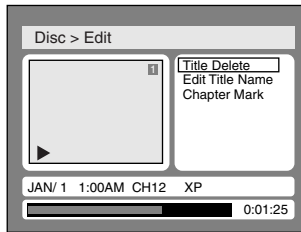


2
Select **"Edit"** using **▲ / ▼** buttons, then press **ENTER** button. Titlelist will appear.

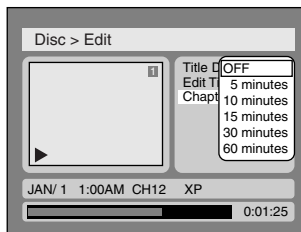
Screen:



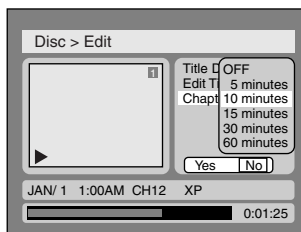
3
Select a desired title using **▲ / ▼ / ◀ / ▶** buttons, then press **ENTER** button. Edit menu will appear.



4
Select **"Chapter Mark"** using **▲ / ▼** buttons, then press **ENTER** button. Option window will appear.

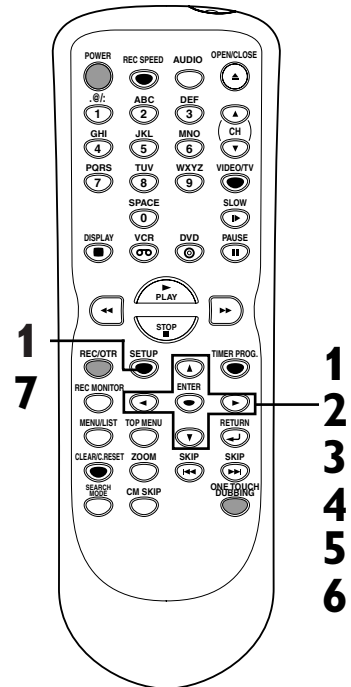


5
Select a desired time using **▲ / ▼** buttons, then press **ENTER** button. Option window will appear.



6
Select **"Yes"** using **◀ / ▶** buttons, then press **ENTER** button. Chapter markers will be added at a specified time.

7
After writing to disc is completed, press **SETUP** button to exit DISC menu.



Note : Markers

- You cannot place markers beyond the length of a title.
- When recording at the recording speed other than XP or SEP, the length of chapters may be slightly longer or shorter than the one specified at the step 5.
- A chapter marker may be delayed according to the recording content.

Editing

Editing DVD-RW discs in VR mode (Original)

Deleting titles



When a title is deleted from an original list in VR mode, the disc space available for recording will be increased.

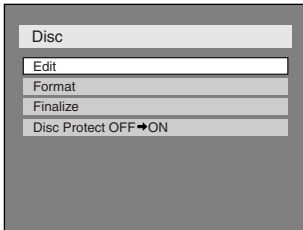
▲ Important

- Be advised that the titles once deleted cannot be brought back to the disc.

First:

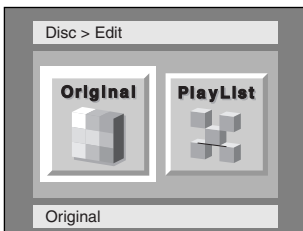
1

Press **SETUP** button. Select **"DISC"** using **◀/▶** buttons, then press **ENTER** button. DISC menu will appear.



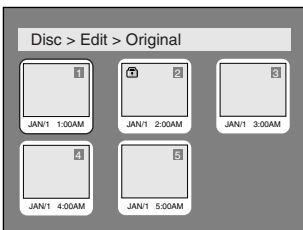
2

Select **"Edit"** using **▲/▼** buttons, then press **ENTER** button. Original/PlayList menu will appear. Screen:



3

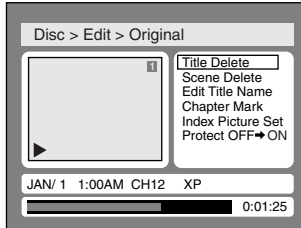
Select **"Original"** using **◀/▶** buttons, then press **ENTER** button. Original list will appear.



4

Select a desired title using **▲/▼/◀/▶** buttons, then press **ENTER** button.

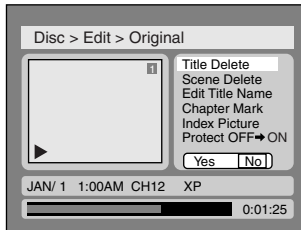
Original menu will appear.



5

Select **"Title Delete"** using **▲/▼** buttons, then press **ENTER** button.

Option window will appear.



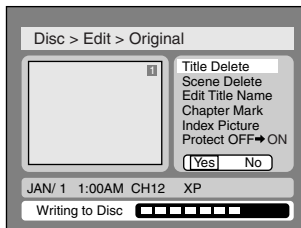
6

▲ Caution

- Once a title has been deleted, it can not be brought back.

Select **"Yes"** using **◀/▶** buttons, then press **ENTER** button.

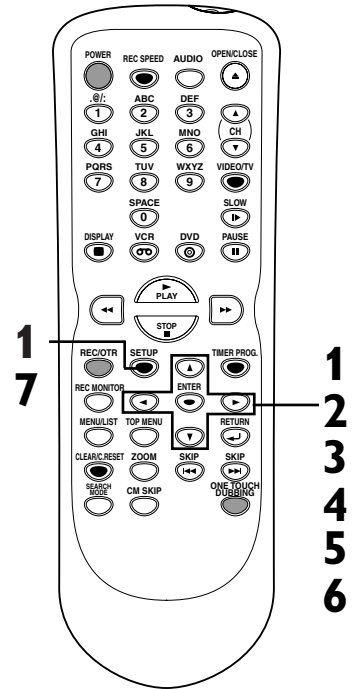
Title will be deleted.



This operation may take a few minutes to complete.

7

After writing to disc is completed, press **SETUP** button to exit DISC menu.



Deleting parts of titles



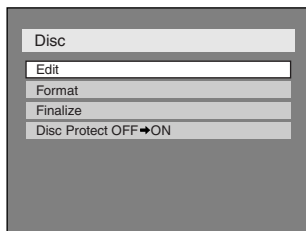
You can delete part of a title, the disc space available for recording will be increased.

▲ Important

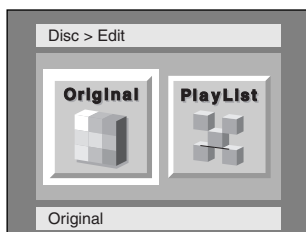
- Be advised that parts, once deleted, cannot be brought back to the disc.

First:

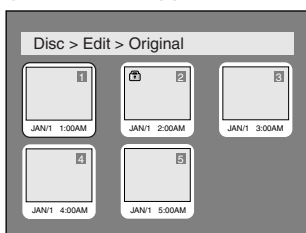
1 Press **SETUP** button. Select “**DISC**” using **◀/▶** buttons, then press **ENTER** button. **DISC** menu will appear.



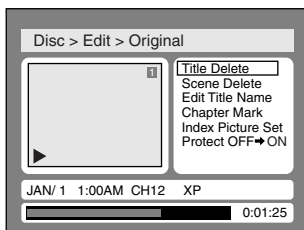
2 Select “**Edit**” using **▲/▼** buttons, then press **ENTER** button. **Original/PlayList** menu will appear. Screen:



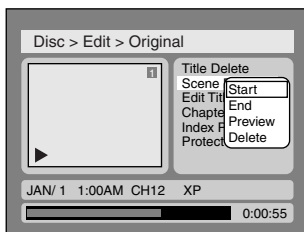
3 Select “**Original**” using **◀/▶** buttons, then press **ENTER** button. **Original list** will appear.



4 Select a desired title using **▲ / ▼ / ◀ / ▶** buttons, then press **ENTER** button. **Original menu** will appear.



5 Select “**Scene Delete**” using **▲ / ▼** buttons, then press **ENTER** button. **Option window** will appear.



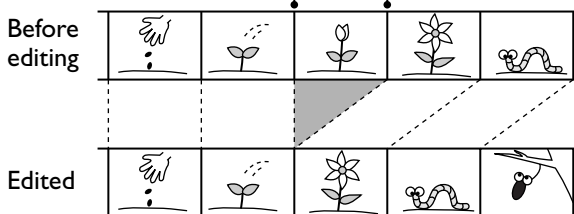
6 Select **Start-End Point**.

Note

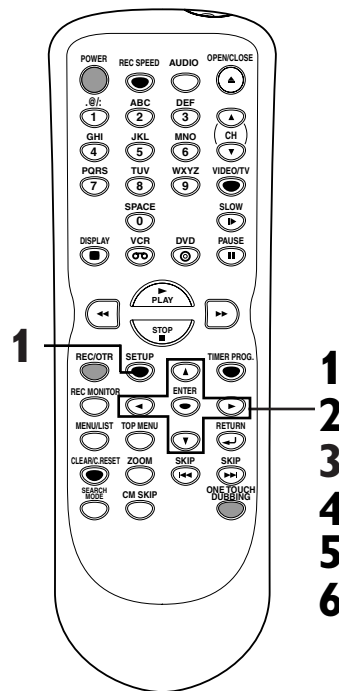
- The DVD will begin to play in the window.

Press **ENTER** button to decide a start point. Then press **ENTER** button to decide an end point. A cursor will move to “**Preview**.” You can check a preview.

<Preview> Start point End point



Instructions continue on page 80.



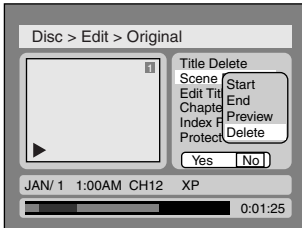
Editing

Editing DVD-RW discs in VR mode (Original) (cont'd)

7

Select "Delete" using ▲ / ▼ buttons, then press ENTER button.

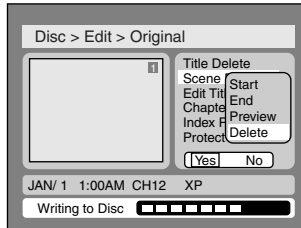
Option window will appear.



8

Select "Yes" using ◀ / ▶ buttons, then press ENTER button.

Part of a title will be deleted.



This operation may take a few minutes to complete.

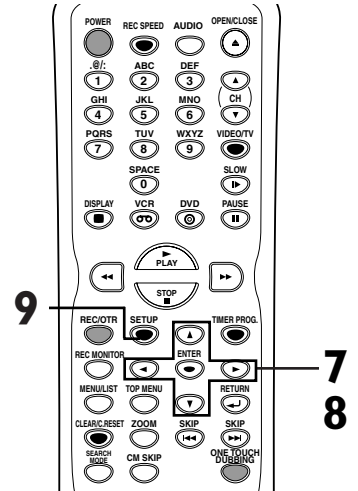
9

9

After writing to disc is completed, press SETUP button to exit DISC menu.

Note : Marker numbers greater than 900

- You cannot select "Scene Delete" when the number of chapter markers in the original or playlist is more than 900.



Naming Titles



You can put title names on titles and change the title names from this menu.

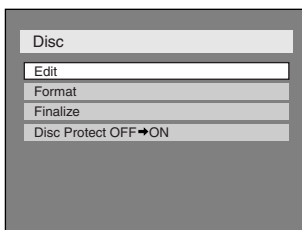
The names you put on the titles will be displayed on a titlelist.

First:

1

Press SETUP button. Select "DISC" using ◀ / ▶ buttons, then press ENTER button.

DISC menu will appear.

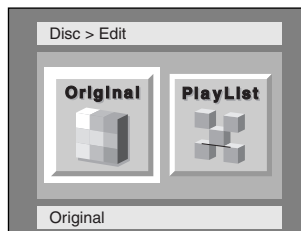


2

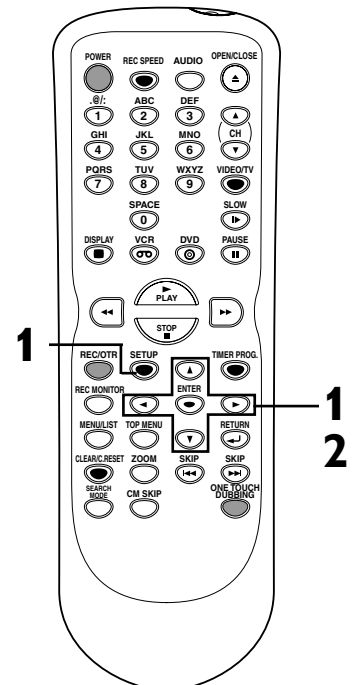
Select "Edit" using ▲ / ▼ buttons, then press ENTER button.

Original/PlayList menu will appear.

Screen:



1



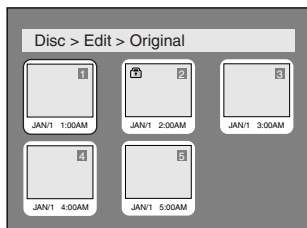
Editing

Editing DVD-RW discs in VR Edit mode (Original) (cont'd)

3

Select "Original" using ◀/▶ buttons, then press ENTER button.

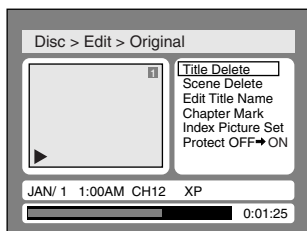
Original list will appear.



4

Select a desired title using ▲/▼/◀/▶ buttons, then press ENTER button.

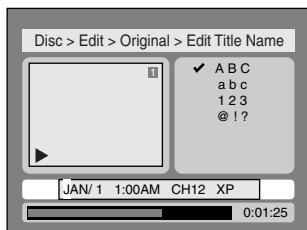
Original menu will appear.



5

Select "Edit Title Name" using ▲/▼ buttons, then press ENTER button.

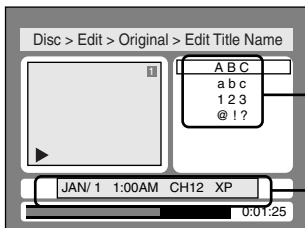
A window for entering a title name will appear.



6

To enter a title name, follow the steps of "Guide to edit title name" on this page.

character set



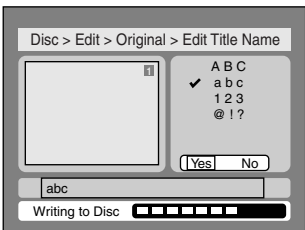
area for entering title names

When you finish entering a title name, press ENTER button.

7

Select "Yes" using ◀/▶ buttons, then press ENTER button.

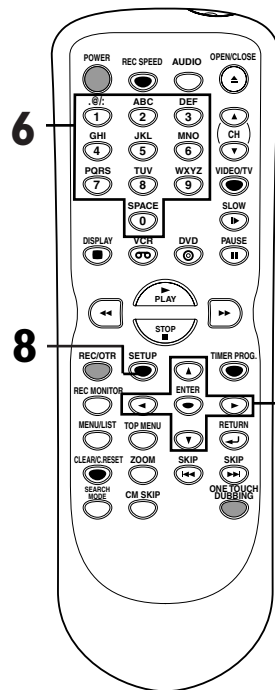
The name you entered will be activated for the title.



This operation may take a few minutes to complete.

8

After writing to disc is completed, press SETUP button to exit DISC menu.



[Guide to edit title name]

[Step1]: Select a desired character set using ▲/▼ buttons, then press ENTER button.

[Step2]: Press Number buttons following by the list below.

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

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

- To delete letters, press CLEAR/C.RESET button repeatedly. Holding CLEAR/C.RESET button to delete all letters.
- To go on to the next entering area for letters, press ▶ button.
- You can enter up to 30 letters.

Editing

Editing DVD-RW discs in VR mode (Original) (cont'd)

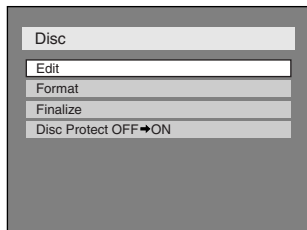
Setting or clearing chapter markers



You can put chapter markers in each title. Once a chapter is marked, you can search for it using the chapter search feature. You can put a chapter marker anywhere you want. When the number of chapter markers in the original list comes to 999 in total, you cannot add any more chapter markers.

First:

1
Press **SETUP** button. Select **"DISC"** using **◀ / ▶** buttons, then press **ENTER** button. DISC menu will appear.

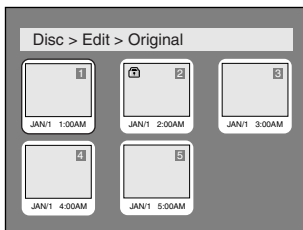


2
Select **"Edit"** using **▲ / ▼** buttons, then press **ENTER** button.

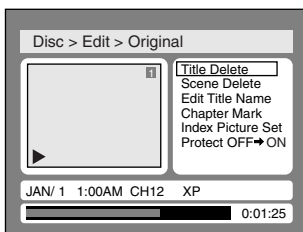
Original/PlayList menu will appear.
Screen:



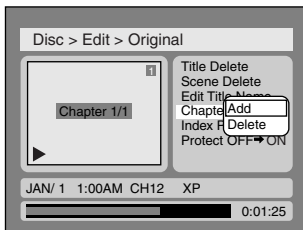
3
Select **"Original"** using **◀ / ▶** buttons, then press **ENTER** button.
Original list will appear.



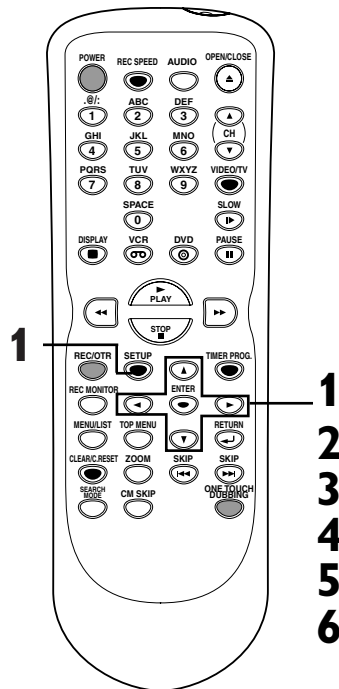
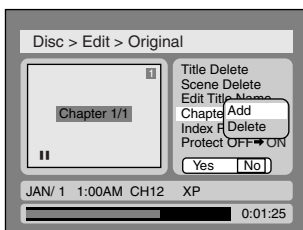
4
Select a desired title using **▲ / ▼ / ◀ / ▶** buttons, then press **ENTER** button.
Original menu will appear.



5
Select **"Chapter Mark"** using **▲ / ▼** buttons, then press **ENTER** button.
Option window will appear.



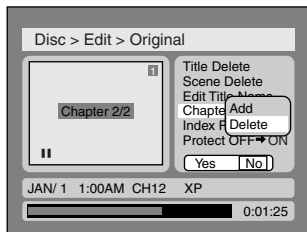
6
Select **"Add"** or **"Delete"** using **▲ / ▼** buttons, then press **ENTER** button.
Option window will appear.
<Add>:



Editing

Editing DVD-RW discs in VR mode (Original) (cont'd)

<Delete>:

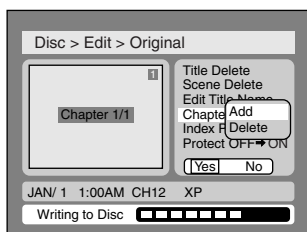


- You cannot delete the first chapter marker of each title.

7

Select "Yes" using ◀ / ▶ buttons, then press ENTER button. A chapter marker will be added.

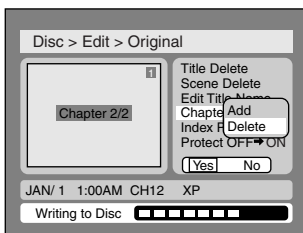
<Add>:



This operation may take a few minutes to complete.

The chapter marker which you selected will be deleted.

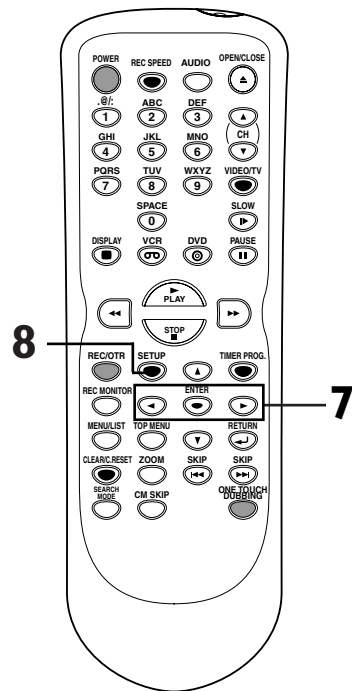
<Delete>:



This operation may take a few minutes to complete.

8

After writing to disc is completed, press SETUP button to exit DISC menu.



Setting pictures for thumbnails

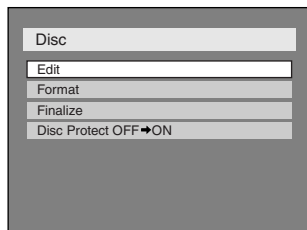


You can use a picture for each title as a thumbnail. It helps you to remember the contents of the title you are playing. The beginning picture has been selected as the default.

First:

1

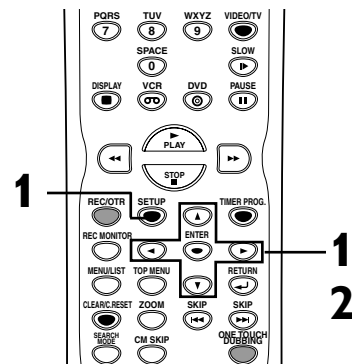
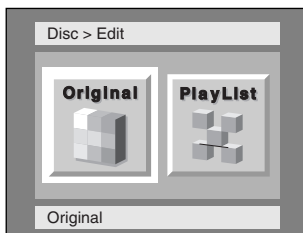
Press SETUP button. Select "DISC" using ◀ / ▶ buttons, then press ENTER button. DISC menu will appear.



2

Select "Edit" using ▲ / ▼ buttons, then press ENTER button.

Original/PlayList menu will appear. Screen:



Note : Thumbnail Picture

- When you delete part of a title, the picture you chose to be the thumbnail for that part is deleted. A default picture will then be used by the unit instead.

Instructions continue on page 84.

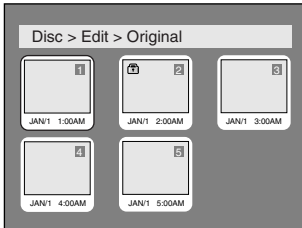
Editing

Editing DVD-RW discs in VR mode (Original) (cont'd)

3

Select "Original" using ◀/▶ buttons, then press ENTER button.

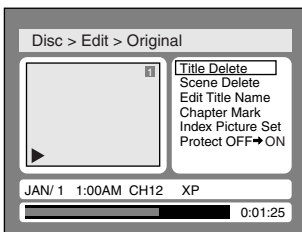
Original list will appear.



4

Select a desired title using ▲ / ▼ / ◀ / ▶ buttons, then press ENTER button.

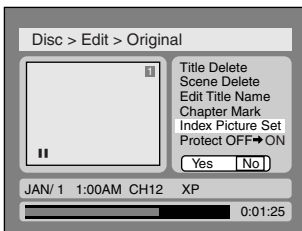
Original menu will appear.



5

Select "Index Picture Set" using ▲ / ▼ buttons, then press ENTER button where you would like to capture the thumbnail image.

Option window will appear.



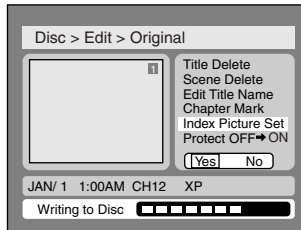
Note

- The DVD disc will begin to play in a window.

6

Select "Yes" using ◀/▶ buttons, then press ENTER button.

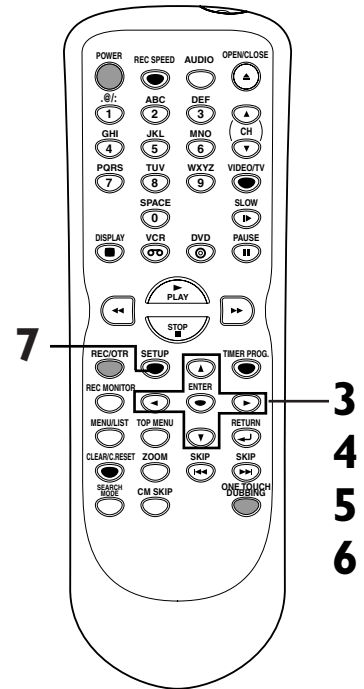
A picture for thumbnail will be set.



This operation may take a few minutes to complete.

7

After writing to disc is completed, press SETUP button to exit DISC menu.



Title Protection

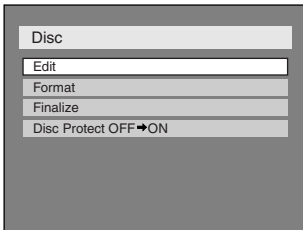


▲ Important

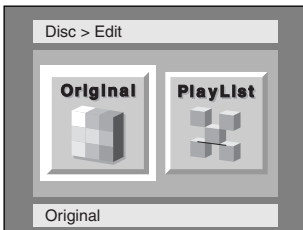
- To prevent accidental editing or erasing the titles, you can protect them from the original menu.

First:

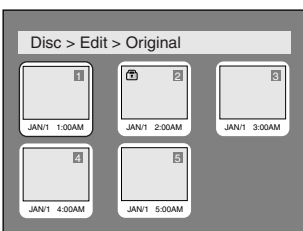
1 Press **SETUP** button. Select **"DISC"** using **◀/▶** buttons, then press **ENTER** button. DISC menu will appear.



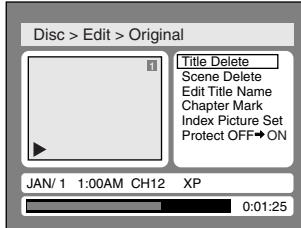
2 Select **"Edit"** using **▲/▼** buttons, then press **ENTER** button. Original/PlayList menu will appear. Screen:



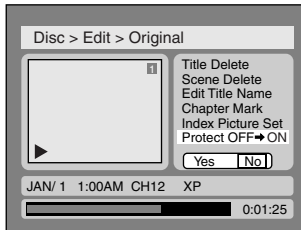
3 Select **"Original"** using **◀/▶** buttons, then press **ENTER** button. Original list will appear.



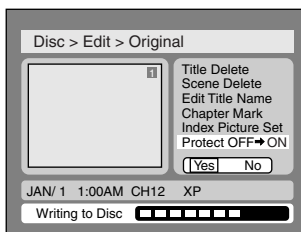
4 Select a desired title using **▲/▼/◀/▶** buttons, then press **ENTER** button. Original menu will appear.



5 Select **"Protect OFF → ON"** using **▲/▼** buttons, then press **ENTER** button. Option window will appear.

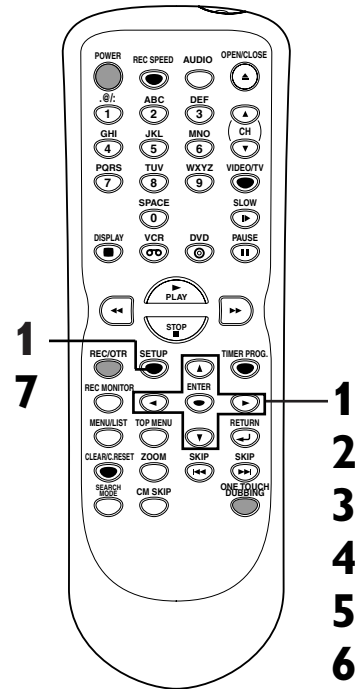


6 Select **"Yes"** using **◀/▶** buttons, then press **ENTER** button.



This operation may take a few minutes to complete.

7 After writing to disc is completed, press **SETUP** button to exit DISC menu.



▲ Protect Disc
To protect a whole disc (DVD-RW VR mode Only):
 Select "Disc Protect" from Disc menu, then select "Yes".

Editing

Editing DVD-RW discs in VR mode (Original) (cont'd)

Releasing titles from protection

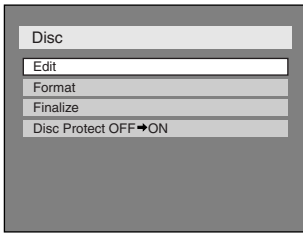


You are allowed to release the titles from protection.

First:

1

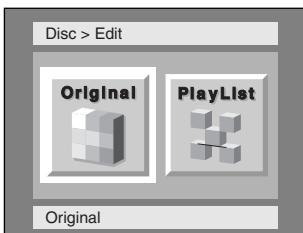
Press **SETUP** button. Select **"DISC"** using **◀/▶** buttons, then press **ENTER** button. DISC menu will appear.



2

Select **"Edit"** using **▲/▼** buttons, then press **ENTER** button.

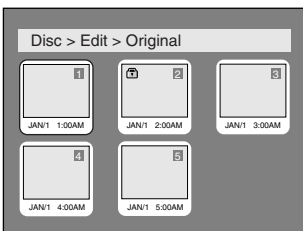
Original/PlayList menu will appear.
Screen:



3

Select **"Original"** using **◀/▶** buttons, then press **ENTER** button.

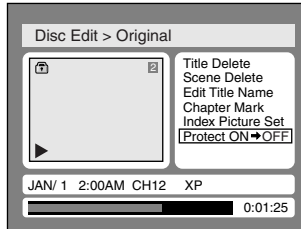
Original list will appear.



4

Select a desired title using **▲/▼/◀/▶** buttons, then press **ENTER** button.

Original menu will appear.

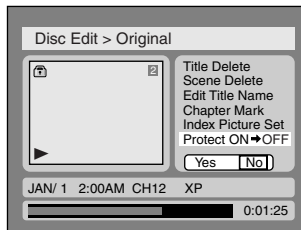


"Protect ON → OFF" is selected.

5

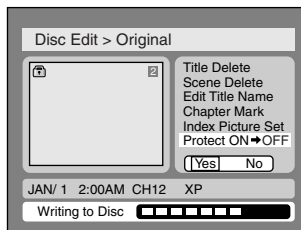
Press **ENTER** button.

Option window will appear.



6

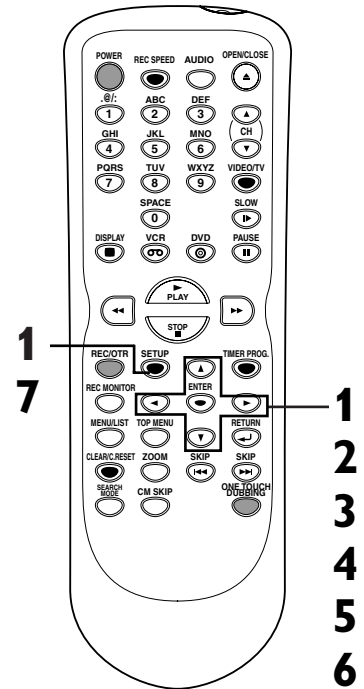
Select **"Yes"** using **◀/▶** buttons, then press **ENTER** button.



This operation may take a few minutes to complete.

7

After writing to disc is completed, press **SETUP** button to exit **DISC** menu.



Deleting titles



In VR mode, even when a title is deleted from a Playlist, the original title will remain in the Original list.

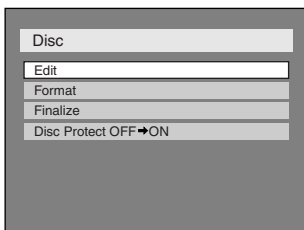
Note

- The disc space available for recording will not be increased.

First:

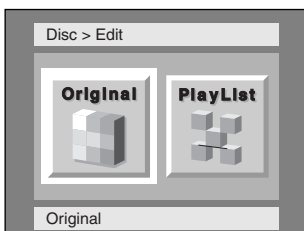
1

Press **SETUP** button. Select **"DISC"** using **◀/▶** buttons, then press **ENTER** button. DISC menu will appear.



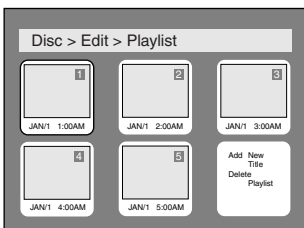
2

Select **"Edit"** using **▲/▼** buttons, then press **ENTER** button. Original/PlayList menu will appear. Screen:



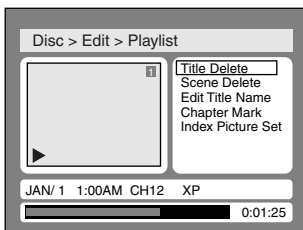
3

Select **"PlayList"** using **◀/▶** buttons, then press **ENTER** button. Playlist will appear.



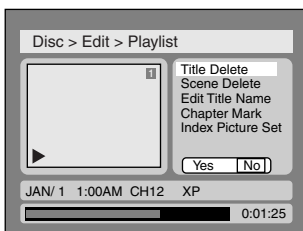
4

Select a desired title using **▲/▼/◀/▶** buttons, then press **ENTER** button. Playlist menu will appear.



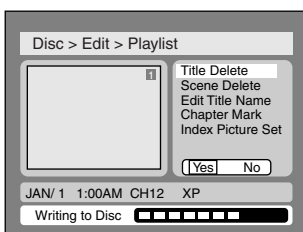
5

Select **"Title Delete"** using **▲/▼** buttons, then press **ENTER** button. Option window will appear.



6

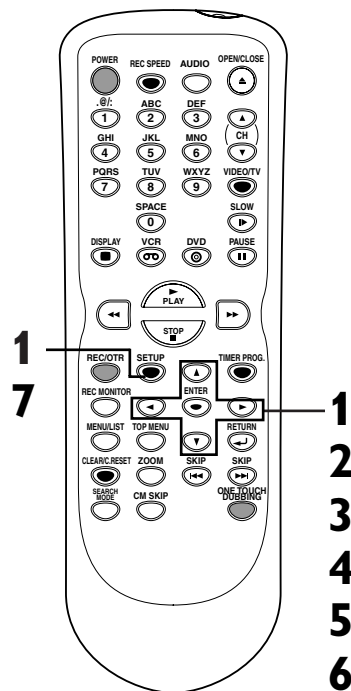
Select **"Yes"** using **◀/▶** buttons, then press **ENTER** button. Title will be deleted.



This operation may take a few minutes to complete.

7

After writing to disc is completed, press **SETUP** button to exit DISC menu.



Editing

Editing DVD-RW discs in VR mode (Playlist) (cont'd)

Deleting parts of titles



You can delete part of a title. Even when a title is deleted from the playlist, the original title will remain.

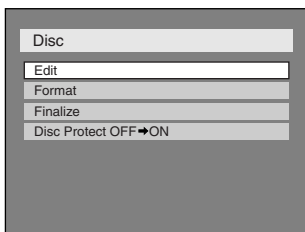
Note

- The disc space available for recording will not be increased.

First:

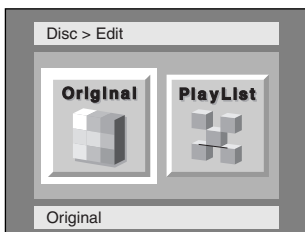
1

Press **SETUP** button. Select **"DISC"** using **◀/▶** buttons, then press **ENTER** button. DISC menu will appear.



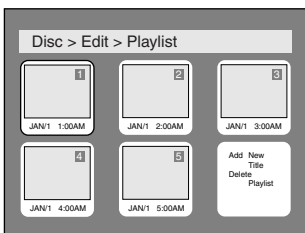
2

Select **"Edit"** using **▲/▼** buttons, then press **ENTER** button. Original/PlayList menu will appear. Screen:



3

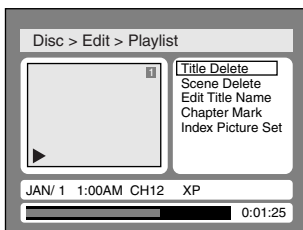
Select **"PlayList"** using **◀/▶** buttons, then press **ENTER** button. Playlist will appear.



4

Select a desired title using **▲/▼/◀/▶** buttons, then press **ENTER** button.

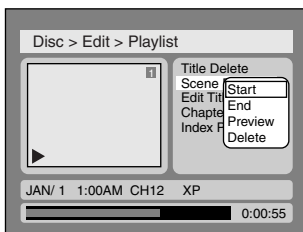
Playlist menu will appear.



5

Select **"Scene Delete"** using **▲/▼** buttons, then press **ENTER** button.

Option window will appear.



6

Select **Start-End Point**.

Note

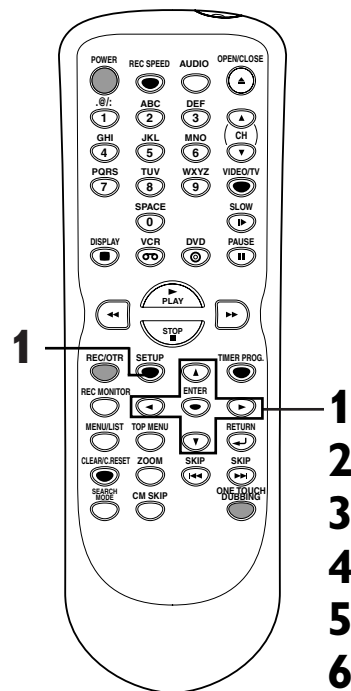
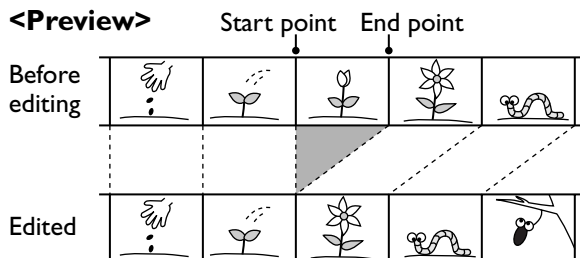
- DVD will begin to play in a window.

Press **ENTER** button to decide a start point.

Then press **ENTER** button to decide an end point.

A cursor will move to **"Preview"**. You can check a preview.

<Preview>



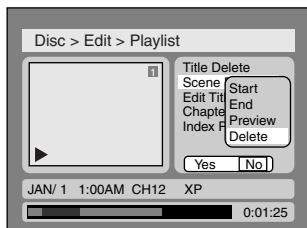
Editing

Editing DVD-RW discs in VR mode (Playlist) (cont'd)

7

Select "Delete" using ▲ / ▼ buttons, then press ENTER button.

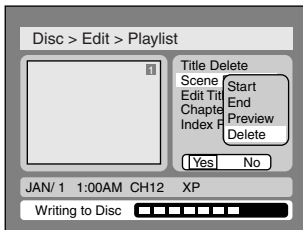
Option window will appear.



8

Select "Yes" using ◀ / ▶ buttons, then press ENTER button.

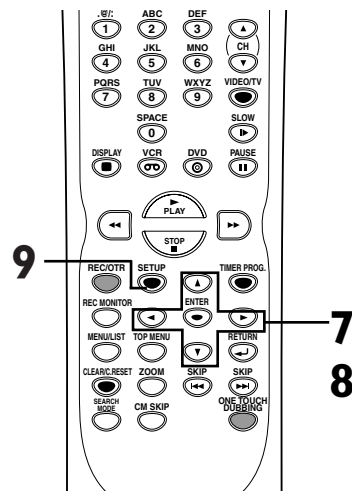
Part of a title will be deleted.



This operation may take a few minutes to complete.

9

After writing to disc is completed, press SETUP button to exit DISC menu.



Note : Chapter Markers

- You cannot select "Scene Delete" when the number of chapter markers in the original or playlist is more than 900.

Naming Titles



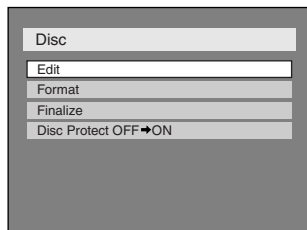
You can title names on the titles and change the names from this menu.

The names of the titles will be displayed on a titlelist.

First:

1

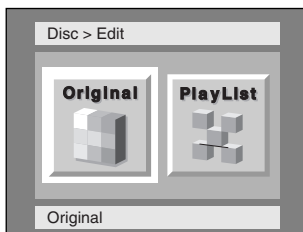
Press SETUP button. Select "DISC" using ◀ / ▶ buttons, then press ENTER button. DISC menu will appear.



2

Select "Edit" using ▲ / ▼ buttons, then press ENTER button.

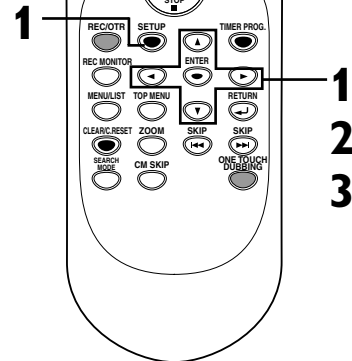
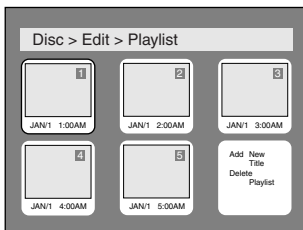
Original/PlayList menu will appear. Screen:



3

Select "PlayList" using ◀ / ▶ buttons, then press ENTER button.

Playlist will appear.



Instructions continue on page 90.

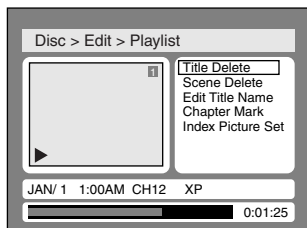
Editing

Editing DVD-RW discs in VR mode (Playlist) (cont'd)

4

Select a desired title using ▲ / ▼ / ◀ / ▶ buttons, then press ENTER button.

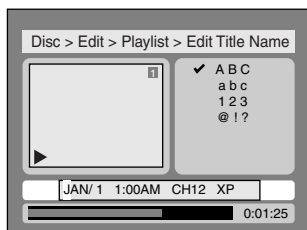
Playlist menu will appear.



5

Select "Edit Title Name" using ▲ / ▼ buttons, then press ENTER button.

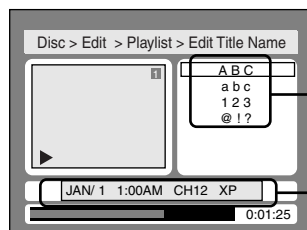
A window for entering a title name will appear.



6

To enter a title name, follow the steps of "Guide to edit title name" on this page.

character set



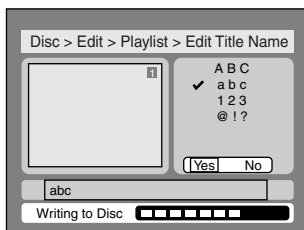
area for entering title names

When you finish entering a title name, press ENTER button.

7

Select "Yes" using ◀ / ▶ buttons, then press ENTER button.

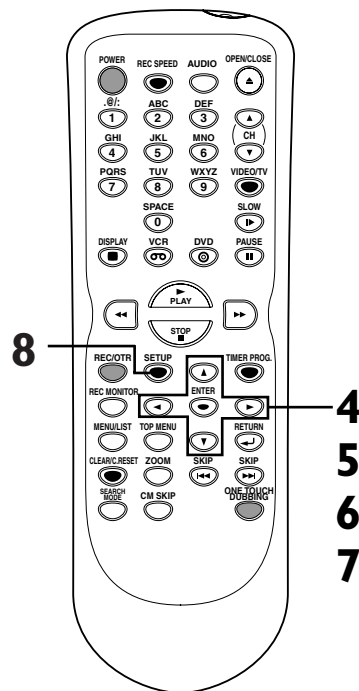
The name you entered will be activated for the title.



This operation may take a few minutes to complete.

8

After writing to disc is completed, press SETUP to exit DISC menu.



[Guide to edit title name]

[Step1]: Select a desired character set using ▲/▼ buttons, then press ENTER button.

[Step2]: Press Number buttons following by the list below.

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

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

- To delete letters, press CLEAR/C.RESET button repeatedly. Holding CLEAR/C.RESET button to delete all letters.
- To go on to the next entering area for letters, press (▶) button.
- You can enter up to 30 letters.

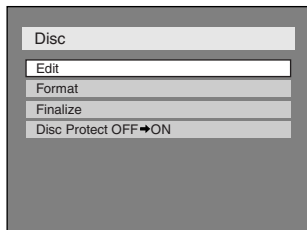
Setting or clearing chapter markers



You can put chapter markers in each title. Once a chapter is marked, you can search for them by using the chapter search feature. You can put a chapter marker anywhere you want. When the number of chapter markers in the playlist comes to 999 in total, you cannot add any more chapter markers.

First:

1
Press **SETUP** button. Select **"DISC"** using **◀/▶** buttons, then press **ENTER** button. DISC menu will appear.



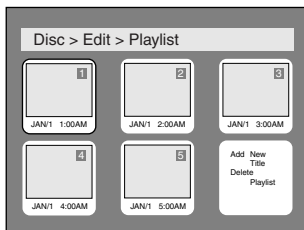
2
Select **"Edit"** using **▲/▼** buttons, then press **ENTER** button.

Original/PlayList menu will appear.
Screen:

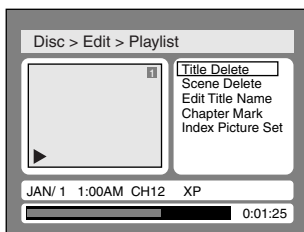


3
Select **"PlayList"** using **◀/▶** buttons, then press **ENTER** button.

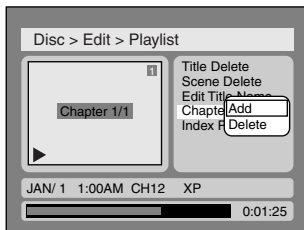
Playlist will appear.



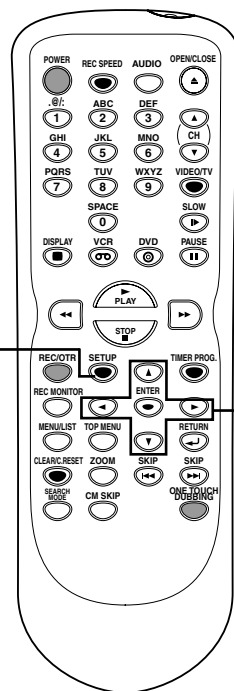
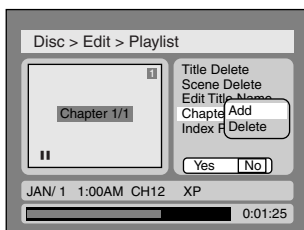
4
Select a desired title using **▲/▼/◀/▶** buttons, then press **ENTER** button. Playlist menu will appear.



5
Select **"Chapter Mark"** using **▲/▼** buttons, then press **ENTER** button. Option window will appear.



6
Select **"Add"** or **"Delete"** using **▲/▼** buttons, then press **ENTER** button. Option window will appear.
<Add>:

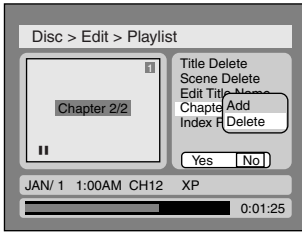


Instructions continue on page 90.

Editing

Editing DVD-RW discs in VR mode (Playlist) (cont'd)

<Delete>:



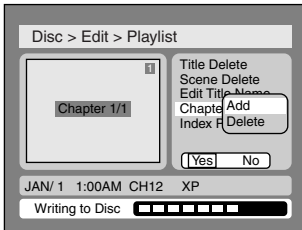
- You cannot delete the first chapter of each title.

7

Select "Yes" using **</>** buttons, then press **ENTER** button.

A chapter marker will be added.

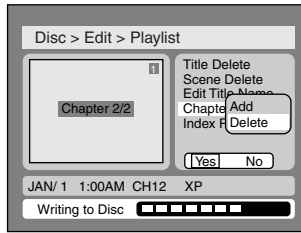
<Add>:



This operation may take a few minutes to complete.

The chapter marker which you selected will be deleted.

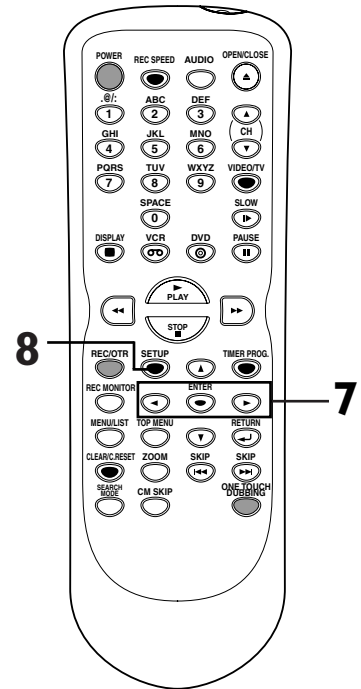
<Delete>:



This operation may take a few minutes to complete.

8

After writing to disc is completed, press **SETUP** button to exit **DISC** menu.



Setting pictures for thumbnails



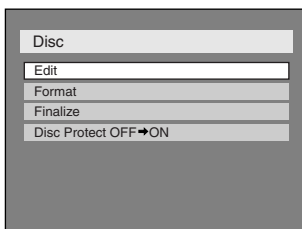
You can set a picture to each title for a thumbnail. It helps you to remember the contents of the title you are playing. The beginning picture has been selected as the default.

First:

1

Press **SETUP** button. Select "DISC" using **</>** buttons, then press **ENTER** button.

DISC menu will appear.

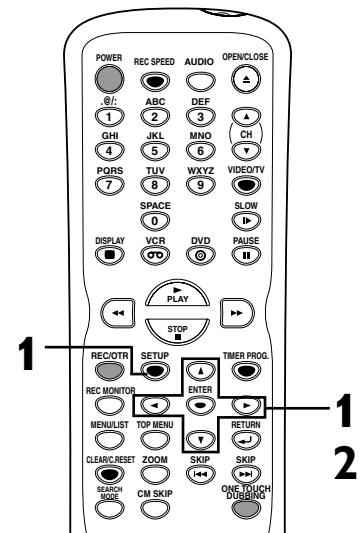
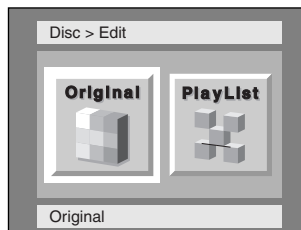


2

Select "Edit" using **▲ / ▼** buttons, then press **ENTER** button.

Original/Playlist menu will appear.

Screen:



Note : Thumbnail

- If a selected picture for a thumbnail is deleted by deleting a part of a title, a default picture will be selected.

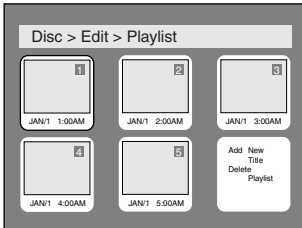
Editing

Editing DVD-RW discs in VR mode (Playlist) (cont'd)

3

Select "PlayList" using ◀/▶ buttons, then press ENTER button.

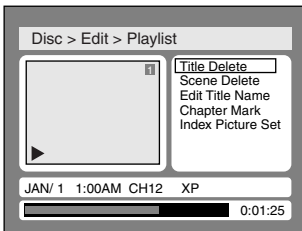
Playlist will appear.



4

Select a desired title using ▲ / ▼ / ◀ / ▶ buttons, then press ENTER button where you would like to capture the thumbnail image.

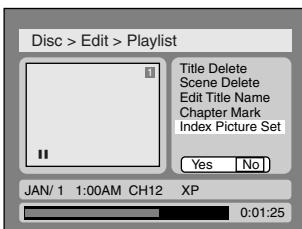
Playlist menu will appear.



5

Select "Index Picture Set" using ▲ / ▼ buttons, then press ENTER button where you would like to capture the thumbnail image.

Option window will appear.



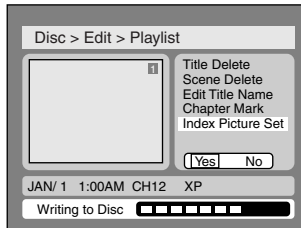
Note

- The DVD will begin to play in a window.

6

Select "Yes" using ◀/▶ buttons, then press ENTER button.

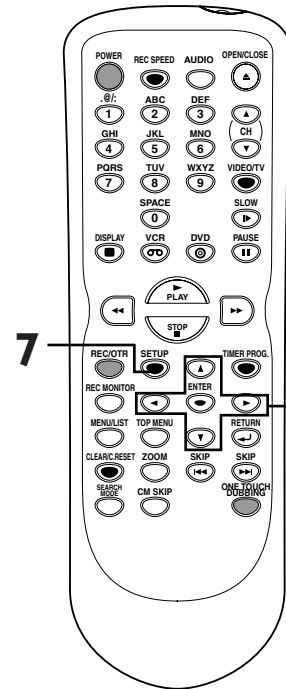
A picture for thumbnail will be set.



This operation may take a few minutes to complete.

7

After writing to disc is completed, press SETUP button to exit DISC menu.



Before you start

Connections

Getting started

Changing the SETUP menu

Playing discs

VCR functions

Recording

Editing

Others

Español

Editing DVD-RW discs in VR mode (Playlist) (cont'd)

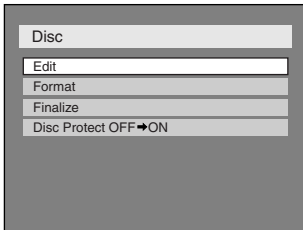
Adding titles to a Playlist



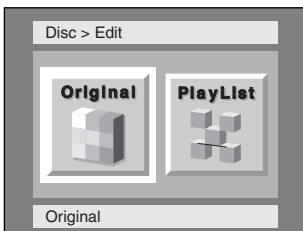
You can add or delete a title in the playlist as you prefer. You can add titles to a Playlist up to 99.

First:

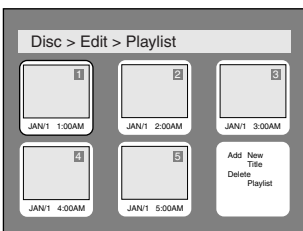
1
Press **SETUP** button. Select **"DISC"** using **◀/▶** buttons, then press **ENTER** button. DISC menu will appear.



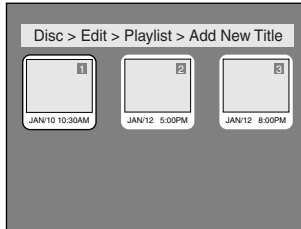
2
Select **"Edit"** using **▲/▼** buttons, then press **ENTER** button. Original/Playlist menu will appear. Screen:



3
Select **"Playlist"** using **◀/▶** buttons, then press **ENTER** button. Playlist will appear.



4
Select **"Add New Title"** using **▲/▼/◀/▶** buttons, then press **ENTER** button. Original list will appear.



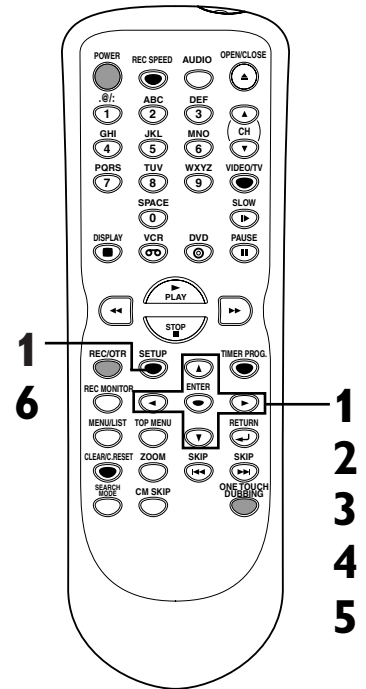
5
Select a desired title using **▲/▼/◀/▶** buttons, then press **ENTER** button.



6
After writing to disc is completed, press **SETUP** button to exit DISC menu.

To delete a title from Playlist, refer to "Deleting titles" on page 87.

To delete a Playlist, refer to "Deleting a Playlist" on page 95.



Deleting a Playlist

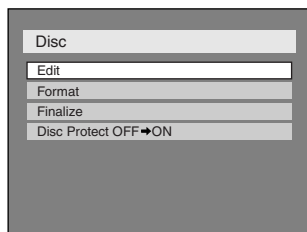


⚠ Important

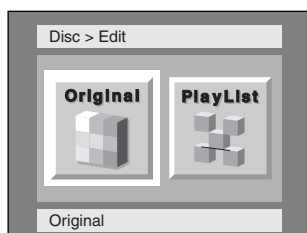
- A Playlist can be deleted if no longer needed.

First:

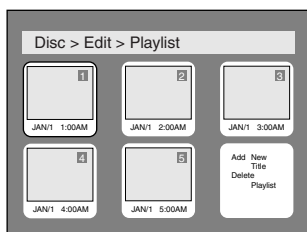
1 Press **SETUP** button. Select **"DISC"** using **◀/▶** buttons, then press **ENTER** button. DISC menu will appear.



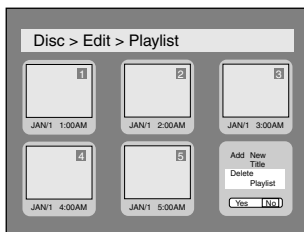
2 Select **"Edit"** using **▲/▼** buttons, then press **ENTER** button. Original/PlayList menu will appear. Screen:



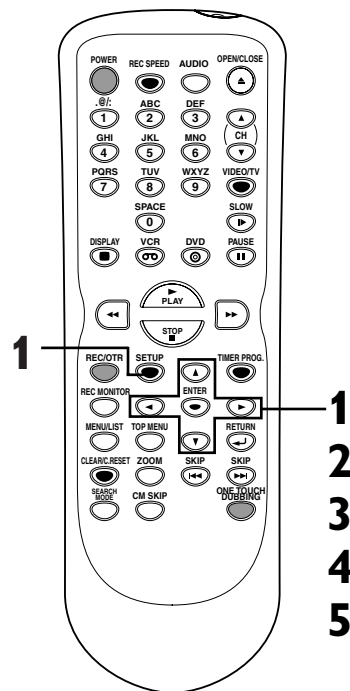
3 Select **"PlayList"** using **◀/▶** buttons, then press **ENTER** button. Playlist will appear.



4 Select **"Delete Playlist"** using **▲/▼/◀/▶** buttons, then press **ENTER** button. Option window will appear.



5 Select **"Yes"** using **◀/▶** buttons, then press **ENTER** button. Playlist will be erased. After writing to disc is completed, the DVD/VCR will be in stop mode.



⚠ Caution

- If a playlist is deleted it can not be brought back.

Note : Deleting Playlist

- Deleting a Playlist will not increase the available recording time on disc.

Deleting titles



You can delete titles which you do not need, however the disc space available for recording on the disc will not be changed.

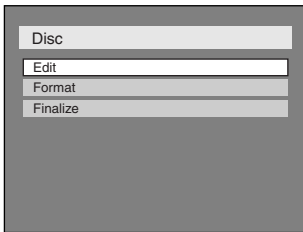
⚠ Important

- Be sure to know that the titles once deleted cannot be brought back to the disc.

First:

1

Press **SETUP** button. Select **"DISC"** using **◀/▶** buttons, then press **ENTER** button. DISC menu will appear.

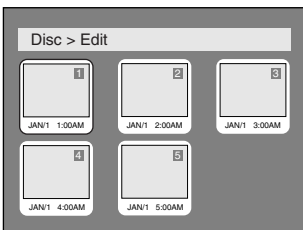


2

Select **"Edit"** using **▲/▼** buttons, then press **ENTER** button.

Titlelist will appear.

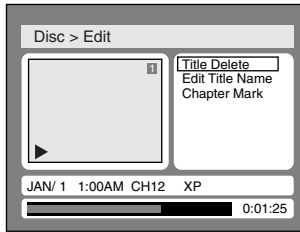
Screen:



3

Select a desired title using **▲/▼/◀/▶** buttons, then press **ENTER** button.

Edit menu will appear.

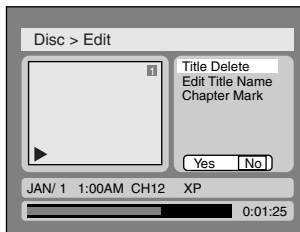


You cannot select "Chapter Mark".

4

Select **"Title Delete"** using **▲/▼** buttons, then press **ENTER** button.

Option window will appear.



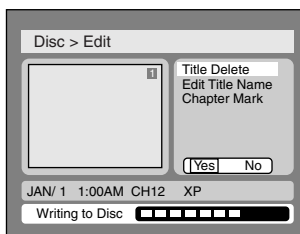
5

⚠ Caution

- Once a title has been deleted, it can not be brought back.

Select **"Yes"** using **◀/▶** buttons, then press **ENTER** button.

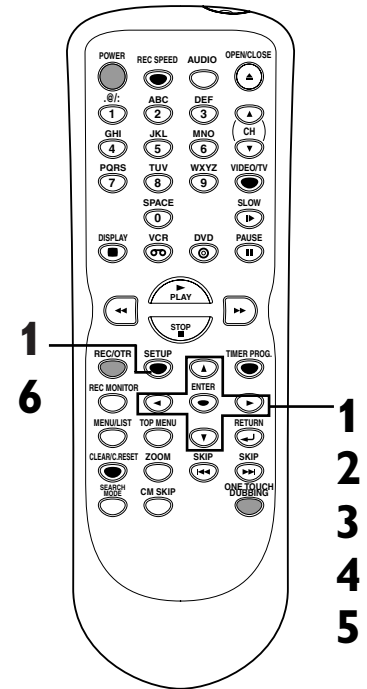
Title will be deleted.



This operation may take a few minutes to complete.

6

After writing to disc is completed, press **SETUP** button to exit DISC menu.



Naming Titles



You can name titles and change the names from this menu. The title names will be displayed on a titelist.

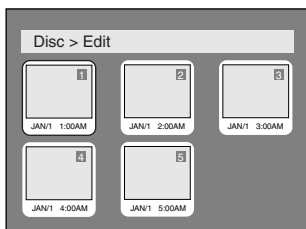
First:

1 Press **SETUP** button. Select **"DISC"** using **◀ / ▶** buttons, then press **ENTER** button. DISC menu will appear.

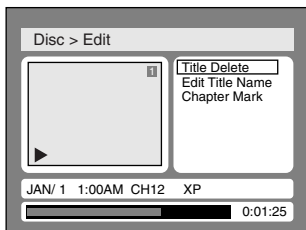


2 Select **"Edit"** using **▲ / ▼** buttons, then press **ENTER** button. Titelist will appear.

Screen:

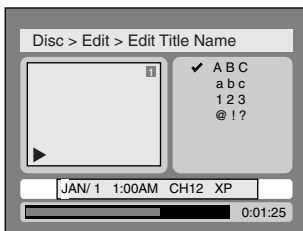


3 Select a desired title using **▲ / ▼ / ◀ / ▶** buttons, then press **ENTER** button. Edit menu will appear.

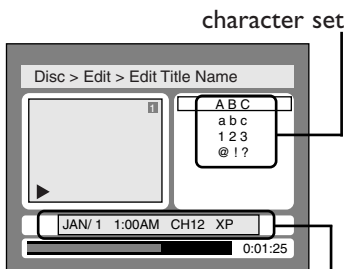


You cannot select "Chapter Mark".

4 Select **"Edit Title Name"** using **▲ / ▼** buttons, then press **ENTER** button. A window for entering a title name will appear.



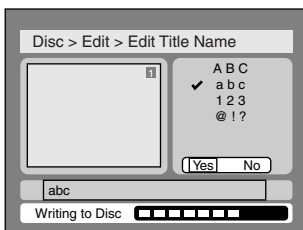
5 To enter a title name, follow the steps of "Guide to edit title name" on this page.



area for entering title names

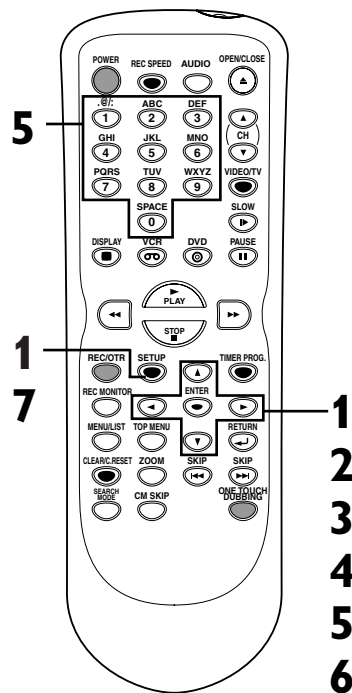
When you finish entering a title name, press **ENTER** button.

6 Select **"Yes"** using **◀ / ▶** buttons, then press **ENTER** button.



This operation may take a few minutes to complete.

7 After writing to disc is completed, press **SETUP** button to exit **DISC** menu.



[Guide to edit title name]

[Step1]: Select a desired character set using **▲ / ▼** buttons, then press **ENTER** button.



[Step2]: Press Number buttons following by the list below.

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

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



- To delete letters, press **CLEAR/C.RESET** button repeatedly. Holding **CLEAR/C.RESET** button to delete all letters.
- To go on to the next entering area for letters, press **▶** button.
- You can enter up to 30 letters.

Troubleshooting

Before requesting service for this unit, check the table below for a possible cause of the problem you are experiencing. Some simple corrections may eliminate the problem and restore proper operation.



Symptom	Remedy
Power The power does not turn on.	<ul style="list-style-type: none"> • Check that the AC power cord is connected securely.
Picture There is no picture.	<ul style="list-style-type: none"> • Re-connect the connecting cord securely. • The Setup Display appears. Press SETUP or RETURN \leftarrow button to turn off the display. • Check the connection to your TV (page 10). • Check the RF output channel when you view a TV program using RF connection. • Check if the INTERLACE/PROGRESSIVE mode is set correctly according to your TV. See page 10. • Switch the input selector on your TV (such as to "LINE1") so that the signal from this DVD/VCR appears on the TV screen. • Check the antenna/cable wire connections.
Picture noise appears.	<ul style="list-style-type: none"> • The disc is dirty or flawed. • Head cleaning for VCR may be necessary. Refer to "AUTO HEAD CLEANING". • If the picture output signal from the unit passes through your VCR to get to your TV, or if you are connected to a combination TV/VIDEO player, the copy-protection signal applied to some DVD programs could affect picture quality. If you still experience this problem even when you connect the unit directly to your TV, try connecting the unit to your TV's S-VIDEO input. • Adjust tracking control for better picture by pressing CHANNEL ($\blacktriangle/\blacktriangledown$) buttons on this unit or CH ($\blacktriangle/\blacktriangledown$) buttons while you are playing a video tape. • Check the antenna/cable wire connections.
TV station does not appear	<ul style="list-style-type: none"> • Try to set the channels with "Auto Preset" in SETUP menu (page 16). • Select a channel of any TV program using the CH $\blacktriangle/\blacktriangledown$ buttons. • Press VIDEO/TV button if necessary. • Check the antenna/cable wire connections.
TV program pictures are distorted.	<ul style="list-style-type: none"> • Adjust TV antenna. • Adjust the picture (see the TV's instruction manual). • Place the unit and TV farther apart. • Place the TV and any bunched antenna cables farther apart.
TV channels cannot be changed.	<ul style="list-style-type: none"> • Switch the input to TV. • Connect the antenna cable correctly (page 10).
The playback picture or TV program from the equipment connected through the unit is distorted.	<ul style="list-style-type: none"> • If the playback picture output from a DVD player, VCR, or tuner goes through the unit before reaching your TV, the copy-protection signal applied to some programs could affect picture quality. Disconnect the playback equipment in question and connect it directly to your TV. • Check the antenna/cable wire connections.
Sound There is no sound.	<ul style="list-style-type: none"> • The disc is dirty or flawed. • Re-connect all connections securely. • The connecting cord is damaged. • Check the connections to the amplifier input. • The input source setting on the amplifier is incorrect. • The unit is in pause mode or in Slow-motion Play mode. • The unit is in fast forward or fast reverse mode. • If the audio signal does not come through the DIGITAL AUDIO OUT (COAXIAL) jack, check the Audio Setup settings (pages 30-31).
Sound is noisy.	<ul style="list-style-type: none"> • The disc is dirty or flawed.

Troubleshooting (cont'd)

Symptom	Remedy
Playback The disc does not play.	<ul style="list-style-type: none"> • No disc is inserted. • A blank disc is inserted. • No cassette tape is inserted. • The disc is upside down. Insert the disc with the labeled side facing up. • The disc is not correctly inserted. • The unit cannot play certain discs (such as a CD-ROM) (page 34). • The region code on the DVD VIDEO does not match the unit (page 34). • Moisture has condensed inside the unit. Remove the disc and leave the unit turned on at least for 2 hours until the moisture evaporates (page 4). • If the disc was recorded on another recorder, the unit cannot play the disc if it was not finalized (page 71).
The disc does not start playback from the beginning.	<ul style="list-style-type: none"> • Resume play was activated (page 39). Press STOP ■ button twice. • You have inserted a disc whose Title menu or DVD menu automatically appears on the TV screen when it is first insert.
The unit starts playing from the disc automatically.	<ul style="list-style-type: none"> • The DVD VIDEO features an auto playback function.
Some functions such as Stop, Search, or Slow-motion Play cannot be performed.	<ul style="list-style-type: none"> • Depending on the disc, you may not be able to do some of the operations above. See the instruction manual supplied with the disc.
The language for the sound track cannot be changed.	<ul style="list-style-type: none"> • Multilingual tracks are not recorded on the DVD VIDEO, DVD-R or DVD-RW being played. • The DVD VIDEO prohibits the changing of the language for the sound track. • Try changing the language using the DVD VIDEO's menu.
The subtitle language cannot be changed or turned off.	<ul style="list-style-type: none"> • Multilingual subtitle are not recorded on the DVD VIDEO. • The DVD VIDEO prohibits changing of the subtitles. • Try changing the subtitle using the DVD VIDEO's menu.
The angles cannot be changed.	<ul style="list-style-type: none"> • Multi-angles are not recorded on the DVD VIDEO being played. • You are trying to change the angles when  icon does not appear on the TV screen (page 49). • The DVD VIDEO prohibits changing angles. • Try changing the angle using the DVD VIDEO's menu.
Recording/Timer recording/Editing	
The channel cannot be changed from the channel you are recording.	<ul style="list-style-type: none"> • Set the TV's input to "TV".
Recording does not start immediately after you press REC/OTR button.	<ul style="list-style-type: none"> • An unused DVD-R or DVD-RW was inserted. It takes a while for the unit to automatically format a DVD-RW. • Make sure the tape has a safety tab when you record to a cassette tape. If needed, cover the hole with cellophane tape.
Nothing was recorded even though you set the timer setting correctly.	<ul style="list-style-type: none"> • There was a power failure during recording. • The units internal clock stopped due to a power failure that lasted for more than 30 seconds. Reset the clock (pages 19-20). • Disconnect the AC power cord from the AC outlet, and connect it again. • The program contains copy protection signals that restricts copying. • The timer setting overlapped with another setting that was set later or has priority.
Recording does not stop immediately after you press STOP ■ button.	<ul style="list-style-type: none"> • It will take a few seconds for the unit to input disc data before recording can stop.
Timer recording is not complete or did not start from the beginning.	<ul style="list-style-type: none"> • The timer setting overlapped with another setting that was set later or has priority (page 66). • Disc space was not enough.
Timer recording is impossible.	<ul style="list-style-type: none"> • Make sure  indicator appears on the front display of this unit. If not, press POWER button. • Clock has not been set.

Troubleshooting (cont'd)

Symptom	Remedy
Remote control The remote control does not function.	<ul style="list-style-type: none"> • Batteries are weak. • There are obstacles between the remote control and the unit. • The remote control is far from the unit. • There are no batteries in the remote control. • Turn on the unit. • The remote control is not pointed at the remote sensor on the unit. • Press the DVD or VCR button, whichever you need. Then, try again.

Others The unit does not operate properly.	<ul style="list-style-type: none"> • When static electricity, etc., causes the unit to operate abnormally, unplug the unit and then plug it in again.
The disc tray does not open when you press OPEN/CLOSE  button.	<ul style="list-style-type: none"> • It may take a few seconds for the disc tray to open after you have recorded or edited a disc. • This is because the unit is adding disc data to the disc.
"Repairing" appears on the display. 	<ul style="list-style-type: none"> • If there is a power failure or unplugging during recording, finalizing, formatting or editing, a Repairing process will begin automatically just after turning the unit on again. It may take several minutes up to about four hours.

Error message	Cause	Solution
<div style="border: 1px solid black; padding: 2px; width: fit-content;">Disc Error</div> — Please eject the disc. — Playback feature may not be available on this Disc.	Unplayable disc is inserted in the unit.	Insert the standardized disc which bear the marks on page 34.
<div style="border: 1px solid black; padding: 2px; width: fit-content;">Region Error</div> — Please eject the disc. — Playback is not authorized in your region.	Playback is not authorized because the region code of the DVD video disc you inserted is different.	Insert the DVD-Video disc with region codes 1 or ALL.
<div style="border: 1px solid black; padding: 2px; width: fit-content;">Parental Lock On</div> — Please eject the disc. — The current selected parental level Prohibits playback.	The current selected parental level in the SETUP Menu prohibits playback.	Check the "Parental Lock" setting (pages 32-33).
<div style="border: 1px solid black; padding: 2px; width: fit-content;">Recording Error</div> This program is not allowed to be recorded.	The recording function encountered the copy prohibited program.	You cannot record copy prohibited programs.
<div style="border: 1px solid black; padding: 2px; width: fit-content;">Recording Error</div> This program is not recordable in Video mode.	You are trying to record copyonce program onto the DVD-RW disc in Video mode or the DVD disc.	Set "DVD-RW Recording Format" to "VR mode" (page 58).
<div style="border: 1px solid black; padding: 2px; width: fit-content;">Recording Error</div> Can not record on this disc.	You are trying to record onto disc which is unrecordable, or the disc status prevents recording.	Insert the recordable disc, and ensure the disc status satisfies the recording requirements (pages 56-72).
<div style="border: 1px solid black; padding: 2px; width: fit-content;">Recording Error</div> This program is not allowed to be recorded on this disc.	You are trying to record the copyonce program onto a DVD-RW disc which is not compatible with CPRM.	Insert a ver. 1.1 CPRM compatible DVD-RW disc (page 57).
<div style="border: 1px solid black; padding: 2px; width: fit-content;">Recording Error</div> This disc is protected and not recordable.	You are trying to record on to the protected disc which is set in the Disc Setting Menu.	Release the disc protect setting in the Disc Setting menu (page 72).

Troubleshooting (cont'd)

Error message	Cause	Solution
<div style="border: 1px solid black; padding: 2px; text-align: center;">Recording Error</div> Disc is full. (No area for new recording)	You are trying to record onto the disc which has no space for recording.	Insert the recordable disc with enough recording space.
<div style="border: 1px solid black; padding: 2px; text-align: center;">Recording Error</div> You cannot record more than 99 titles on one disc. (The maximum is 99)	You are trying to record onto the disc on which the number of recording titles comes up to the maximum (99).	Delete unnecessary titles (page 78).
<div style="border: 1px solid black; padding: 2px; text-align: center;">Recording Error</div> You cannot record more the 999 chapters on one disc. (The maximum is 999)	You are trying to record onto the VR mode DVD-RW disc on which the number of recording chapters comes up to the maximum (999).	Delete unnecessary chapter markers (pages 82-83).
<div style="border: 1px solid black; padding: 2px; text-align: center;">Recording Error</div> You cannot record on this disc as Control Information is full.	This disc has no space to write the Control Information when recording or deleting contents. When editing has been repeatedly performed, the control Information area may come up to be full even the recording area has enough space.	Delete unnecessary titles (page 78).
<div style="border: 1px solid black; padding: 2px; text-align: center;">Recording Error</div> You cannot record on the disc as Power Calibration Area is full.	This disc's working area for recording is full. When recordings are performed repeatedly onto an unstable disc, this area may fill up.	Insert a new disc.
<div style="border: 1px solid black; padding: 2px; text-align: center;">Recording Error</div> This disc is already finalized.	You are trying to record onto the disc already finalized.	Release the finalizing for this disc (page 71).

* If you are still experiencing trouble after reviewing the Troubleshooting guide, please refer to the warranty statement page at the rear of this manual.

Analog audio

An electrical signal that directly represents sound. Compare this to digital audio which can be an electrical signal, but is an indirect representation of sound. See also Digital audio.

Aspect ratio

The width of a TV screen relative to its height. Conventional TVs are 4:3 (in other words, the screen is almost square); widescreen models are 16:9 (the screen is almost twice as wide as it is high).

Chapter

Just as a book is split up into several chapters, a title on a DVD disc is usually divided into chapters. See also Title.

Component video output

Each signal of luminance(Y) and component(Pb/Cb, Pr/Cr) is independent to output so that you can experience picture color as it is. Also, due to compatibility with progressive video (480p), you can experience higher-density picture than that in interlace (480i).

CPRM (Content Protection for Recordable Media)

CPRM is a copy protection system with scramble system regarding the recording of "copy-once" broadcast programs (e.g. some satellite broadcasts).

Digital audio

An indirect representation of sound by numbers. During recording, the sound is measured at discrete intervals (44, 100 times a second for CD audio) by an analog-to-digital converter, generating a stream of numbers. On playback, a digital-to-analog converter generates an analog signal based on these numbers. See also Sampling frequency and Analog audio.

Dolby Digital

The system to compress digital sound developed by Dolby Laboratories. It offers you sound of stereo(2ch) or multi-channel audio (up to 5.1ch).

DTS (Digital Theater System)

DTS is a 5.1 channel surround sound system, but it is different from Dolby Digital. The formats were developed by Digital Theater System, Inc.

MP3 (MPEG Audio Layer 3)

MP3 is a method of compressing files. You can copy MP3 files on CD-R/RW discs from the computer and play the files on this unit.

Finalize

To make DVD discs, which have been recorded on, possible to play in DVD players. With this unit, it is possible to finalize DVD-R/DVD-RW discs.

PCM•2-channel stereo (Pulse Code Modulation)

The most common system of encoding digital audio, found on CDs and DAT. Excellent quality, but requires a lot of data compared to formats such as Dolby Digital and MPEG audio. For compatibility with digital audio recorders (CD, MD and DAT) and AV amplifiers with digital inputs, this unit can convert Dolby Digital and MPEG audio to PCM. See also Digital audio.

Playlist

From this list you can play contents of a disc as your desired order or in sequence. Also it is allowed to search a specific scene directly.

Progressive Scan (480p)

A type of display that does not split each frame into fields, and instead scans directly through all the scanlines of each frame in order. Progressive Scan provides less flickering and higher image resolution than traditional (480i) TV signals. Refer to page 13 for instructions on selective Progressive Scan mode.

Regions code

Regions associate discs and players with particular areas of the world. This unit will only play discs that have compatible region codes. You can find the region code of your unit by looking on the rear panel. Some discs are compatible with more than one region (or all regions).

Sampling frequency

The rate which sound is measured by a specified interval to turn into digital audio data. The numbers of sampling in one second defines as sampling frequency. The higher the rate, the better the sound quality is.

SAP (Secondary Audio Program)

Second Audio channel which is delivered separately from main-audio channel. This audio channel is used as an alternate in bilingual broadcasting.

S-Video output

It delivers independently each signal of color(C) and luminance(Y) to TV as video signals, so that higher-quality picture will be gained.

Title (DVD only)

A collection of chapters on DVD disc. See also chapter.

Track

Audio CDs use tracks to divide up the content of a disc. The DVD equivalent is called a chapter. See also Chapter.

Others

Specifications

General

System	DVD-Video, DVD-R/RW, Audio CD, CD-R/RW, Video Cassette Tape
VCR video heads	Four heads
Power requirements	AC120 V, 60 Hz
Power consumption	37 W (standby: 4.3 W)
Weight	9.5 lbs (4.3 kg)
Dimensions (width x height x depth)	17 1/8" x 3 7/8" x 10 1/4" (435 x 99.5 x 261 mm)
Operating temperature	41F° to 104F° (5°C to 40°C)
Operating humidity	5% to 85% (no condensation)
TV format	NTSC

Tuner

Receivable channels

VHF	2-13ch
UHF	14-69ch
CATV	C1-C125ch

RF Converter	Built-in VHF converter
---------------------	------------------------

Converter output	VHF channel 3 or 4
-------------------------	--------------------

Note:

The specifications and design of this product are subject to change without notice.

Language code

Language	Code	Language	Code	Language	Code
(Afan) Oromo	6159	Hindi	5455	Russian	6467
Abkhazian	4748	Hungarian	5467	Samoan	6559
Afar	4747	Icelandic	5565	Sangho	6553
Afrikaans	4752	Indonesian	5560	Sanskrit	6547
Albanian	6563	Interlingua	5547	Scots Gaelic	5350
Anharic	4759	Interlingue	5551	Serbian	6564
Arabic	4764	Inupiak	5557	Serbo-Croatian	6554
Armenian	5471	Irish	5347	Sesotho	6566
Assamese	4765	Italian	5566	Setswana	6660
Aymara	4771	Japanese	5647	Shona	6560
Azerbaijani	4772	Javanese	5669	Sindhi	6550
Bashkir	4847	Kannada	5760	Singhalese	6555
Basque	5167	Kashmiri	5765	Siswat	6565
Bengali; Bangla	4860	Kazakh	5757	Slovak	6557
Bhutani	5072	Kinyarwanda	6469	Slovenian	6558
Bihari	4854	Kirghiz	5771	Somali	6561
Bislama	4855	Kirundi	6460	Spanish	5165
Breton	4864	Korean	5761	Sundanese	6567
Bulgarian	4853	Kurdish	5767	Swahili	6569
Burmese	5971	Laothian	5861	Swedish	6568
Byelorussian	4851	Latin	5847	Tagalog	6658
Cambodian	5759	Latvian; Lettish	5868	Tajik	6653
Catalan	4947	Lingala	5860	Tamil	6647
Chinese	7254	Lithuanian	5866	Tatar	6666
Corsican	4961	Macedonian	5957	Telugu	6651
Croatian	5464	Malagasy	5953	Thai	6654
Czech	4965	Malay	5965	Tibetan	4861
Danish	5047	Malayalam	5958	Tigrinya	6655
Dutch	6058	Maltese	5966	Tonga	6661
English	5160	Maori	5955	Tsonga	6665
Esperanto	5161	Marathi	5964	Turkish	6664
Estonian	5166	Moldavian	5961	Turkmen	6657
Faroese	5261	Mongolian	5960	Twi	6669
Fiji	5256	Nauru	6047	Ukrainian	6757
Finnish	5255	Nepali	6051	Urdu	6764
French	5264	Norwegian	6061	Uzbek	6772
Frisian	5271	Occitan	6149	Vietnamese	6855
Galician	5358	Oriya	6164	Volapuk	6861
Georgian	5747	Panjabi	6247	Welsh	4971
German	5051	Pashto; Pushto	6265	Wolof	6961
Greek	5158	Persian	5247	Xhosa	7054
Greenlandic	5758	Polish	6258	Yiddish	5655
Guarani	5360	Portuguese	6266	Yoruba	7161
Gujarati	5367	Quechua	6367	Zulu	7267
Hausa	5447	Rhaeto-Romance	6459		
Hebrew	5569	Romanian	6461		

Fácil grabación de DVD

Estas instrucciones le ayudarán a entender fácilmente cómo grabar discos DVD.

Nota:

Asegúrese que las pilas están en el mando a distancia y que ha conectado correctamente esta unidad y el TV.

Paso 1: Elija un tipo de disco

Hay varios tipos de discos DVD grabables a su elección. Elija un tipo de disco DVD que se pueda grabar según sus necesidades de reproducción/grabación/edición. Elija el tipo según "Tipos de disco DVD" en esta página. **Este grabador de DVD puede grabar en los siguientes tipos de disco.**



* Esta unidad no puede grabar en los discos siguientes.

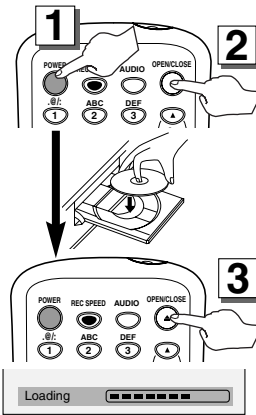
- DVD-R General Ver 2.0 / 8x
- DVD-RW Ver 1.2 / 2-4x compatible con CPRM

Por ejemplo, cuando desea grabar repetidamente en el mismo disco o cuando desea editar el disco después de grabar, seleccione el disco de tipo regrabable DVD-RW. Cuando desea guardar grabaciones sin alterarlos, un DVD no regrabable DVD-R puede ser más conveniente.

Paso 2: Coloque un disco en blanco

- 1 Para encender
- 2 Para abrir
- 3 Para cerrar

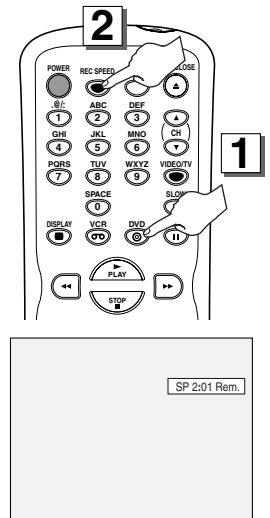
Mando a distancia



Esta operación puede demorar en reconocerse.

Paso 3: Seleccione la velocidad de grabación

- 1 Para seleccionar el modo DVD
- 2 Para seleccionar la velocidad de grabación



Tipos de disco DVD

☆☆☆ : Más adecuado ☆☆☆ : Puede utilizar ☆☆☆ : Algunas funciones son limitadas — : No puede utilizar

Desea	DVD-RW VR	DVD-RW Video	DVD-R
Grabar programas de TV	☆☆☆	☆☆☆	☆☆
Volver a utilizar borrando partes no deseadas	☆☆☆	☆☆	—
Editar las grabaciones	☆☆☆	☆☆	☆
Editar/grabar de equipos conectados	☆☆☆	☆☆☆	☆☆☆
Copiar discos para distribución	☆☆ ^{*1}	☆☆☆	☆☆☆
Reproducir en otro equipo de DVD	☆☆ ^{*1}	☆☆☆	☆☆☆

Detalles	DVD-RW VR	DVD-RW Video	DVD-R
Grabación			
¿Regrabable?	Sí	Sí	No
Puede crear capítulos a intervalos fijos (auto.)	Sí	Sí	Sí
Puede crear capítulos donde desee (manual)	Sí	No	No
Puede grabar imágenes de tamaño 16:9	Sí	Sí	Sí
Puede grabar un programa de Copia-una-vez	Sí	No	No
Edición			
Puede hacer funciones de edición básica	Sí	Sí	No
Puede hacer funciones de edición avanzadas (edición de lista a reproducir)	Sí	No	No

*1 El DVD-RW (modo VR) sólo puede reproducirse en equipos de DVD compatibles con VR.

Nota:
Para más detalles sobre las funciones anteriores y las limitaciones implícitas, lea las explicaciones en este manual.

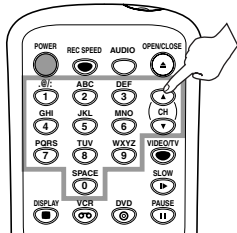
▲ Importante Formato del disco

Coloque el disco en el grabador. Haga el formato del disco del menú SETUP, existen los formatos de video (modo de Video) o de grabación de video (modo VR) según el tipo de disco colocado.

Esto es necesario para preparar el disco para grabación. Vea los detalles en las páginas 58-60.

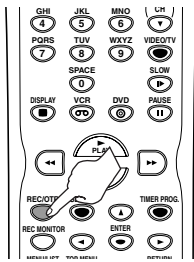
* Al formatear, todo el contenido de ese disco se borrarán.

Paso 4: Seleccione el canal deseado

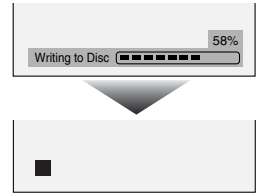
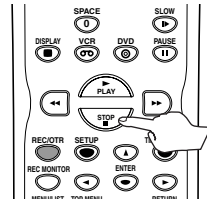


CH 1

Paso 5: Presione el botón REC/OTR



Paso 6: Pare la grabación



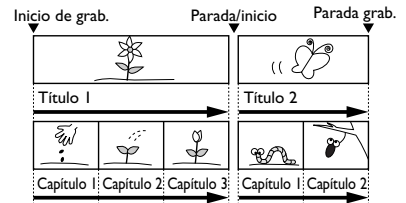
Esta operación puede demorar en completarse.

Sugerencia 1: Reproduzca el contenido grabado

Puede seleccionar el título que desea reproducir de un menú indicado y empiece a reproducir inmediatamente. Las grabaciones pueden verse fácilmente en un disco, el procedimiento es simple ya que sólo tiene que elegir el título en un capítulo de la pantalla del menú.

¿Qué son títulos y capítulos?

Las grabaciones del disco DVD se dividen generalmente en títulos. Los títulos pueden subdividirse en capítulos.



Sugerencia 2: Edite el disco grabado

La edición de discos puede ser muy fácil y el grabador de DVD ofrece convenientes funciones de edición posibles sólo con los DVD-R/RW.

Puede editar lo siguiente de la lista de títulos.

- Poniendo nombres en títulos
- Seleccionando imágenes para índices (modo VR)
- Seleccionando/borrando marcadores de capítulos
- Borrado de partes de títulos o escenas (Modo VR)

Title Delete: Esto borra permanentemente una escena completa del disco.

Scene Delete: Esto permite que el usuario edite dentro de una escena específica (anuncios comerciales, por ejemplo).

Original y Playlist (modo VR)

Puede editar las grabaciones en la lista a reproducir sin cambiar las grabaciones originales. Cualquier lista a reproducir no ocupa mucho espacio en el disco.

¿Qué significa "Original" o "Playlist"?

A lo largo de este manual encontrará Original y Playlist que se refieren a las grabaciones reales y la versión editada.

- La grabación **Original** se refiere a la grabación real en el disco.
- El **Playlist** se refiere a la versión editada del disco; cómo se va a reproducir la versión Original.

▲ Finalización de un disco

- Esto permitirá que un disco que se grabe en nuestra unidad pueda ser reproducido en un reproductor DVD diferente. Un disco sin finalizar no se podrá reproducir en otro reproductor.
- Después de finalizar un disco, si la grabación se hizo en el modo de vídeo, usted no podrá editar ninguna información que se encuentre en ese disco.
- Si ha grabado en el modo VR en un disco DVD-RW, la edición podrá realizarse incluso después de la finalización.

Reproducción con videgrabadora



1

Presione el botón **POWER** en el mando a distancia o el panel frontal de la unidad. Cuando reproduzca una cinta, conecte el TV y asegúrese de seleccionar la entrada donde se conecta la unidad.

Presione:



2

Coloque una cinta pregrabada y presione el botón **PLAY** para empezar la reproducción.

3

Durante la reproducción, presione el botón **PAUSE II**. Se hará una pausa de reproducción y se silenciará el sonido.

4

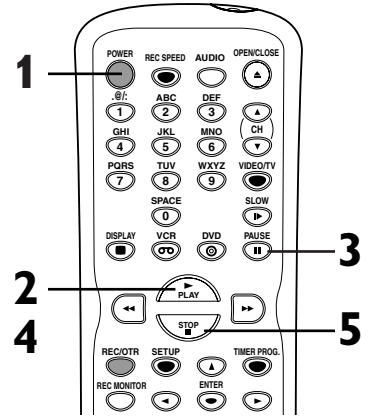
Presione el botón **PLAY** para continuar la reproducción.

5

Presione el botón **STOP** para detener la reproducción.

6

Presione el botón **STOP/EJECT** en el panel frontal de la unidad para expulsar la cinta.



Nota

- Cuando se coloca una cinta sin la lengüeta de grabación, la unidad empezará a reproducir automáticamente.
- El seguimiento se ajustará automáticamente para la reproducción. Para ajustar manualmente el seguimiento, presione los botones CHANNEL ▲/▼ en el panel frontal de la unidad o los botones CH▲/CH▼ en el mando a distancia.

Grabación y grabación con temporizador de un toque (VCR)

Grabación



Antes de grabar, asegúrese de que:

- Se seleccionó el canal deseado presionando los botones numéricos en el mando a distancia o botones CHANNEL ▲/▼ en el panel frontal de la unidad.
- Hay una cinta con la lengüeta para grabación intacta en la unidad.
- Se seleccionó la velocidad de grabación deseada en SP (reproducción estándar) o SLP (reproducción de super larga duración) presionando el botón REC SPEED en el mando a distancia.

Velocidad de grabación:

Velocidad de la cinta	Tiempo de grabación/reproducción		
	T60	T120	T160
Modo SP	1 hora	2 horas	2-2/3 horas
Modo SLP	3 horas	6 horas	8 horas

- Se selecciona Estéreo o SAP.

Primero:

.....
1

Presione el botón REC/OTR para empezar la grabación.

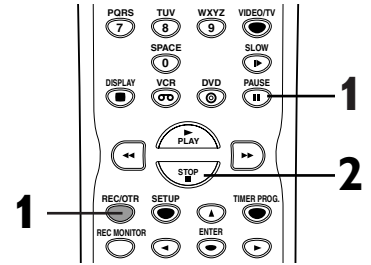
Para detener temporalmente la grabación o continuarla, presione el botón PAUSE III. Después de que la unidad haya estado en el modo de pausa durante 5 minutos, se detendrá automáticamente para proteger al cinta y el cabezal de video contra cambios.

.....
2

Presione el botón STOP cuando se complete la grabación.

Prevención contra borrado accidental

Para evitar una grabación por accidente en un casete grabado, rompa la lengüeta de grabación. Para volver a grabar posteriormente, cubra el orificio con cinta adhesiva.



Nota

- Para ver un canal mientras graba en otro
 - 1) Mientras está grabando en la unidad, presione el botón VIDEO/TV.
 - 2) En la caja de cable o caja de satélite, seleccione el canal que desea ver.
 Si se conectó la unidad a una caja de cable o caja de satélite, consulte la sección de "Connection to a cable box or satellite box" en la página 11.
- Si se termina el OTR en la videograbadora durante el modo de reproducción o REC en DVD, la videograbadora estará en el modo STOP y la DVD se mantiene en el modo actual.

Grabación con temporizador de un toque



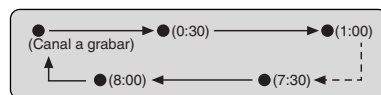
Esta función permite seleccionar la longitud de la grabación simplemente presionando el botón REC/OTR en el mando a distancia o en el panel frontal de la unidad.

Primero:

.....
1

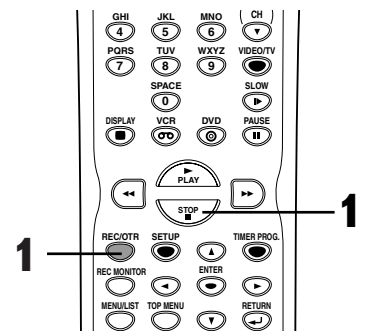
Durante la grabación normal, presione el botón REC/OTR para empezar la grabación con temporizador de un toque.

Puede seleccionar un tiempo de grabación determinado presionando repetidamente el botón REC/OTR.



Cuando termina la grabación con temporizador de un toque, la unidad se desconectará automáticamente.

Para cancelar la grabación con temporizador de un toque dentro del tiempo especificado, presione el botón STOP ■.



Nota

- Aparecerá el tiempo de grabación restante en el panel de visualización durante una OTR. Presione el botón DISPLAY para que aparezca en la pantalla del televisor.
- No puede pausar una OTR.

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