SYLVANIA

Owner's Manual

DVD Recorder with Video Cassette Recorder

SSR90V4



INSTRUCCIONES EN ESPAÑOL INCLUIDAS.

Supplied Accessory

- Remote control (NB108UD) with two AA batteries
- RF cable (WPZ0901TM002)
- Audio/Video cables (WPZ0102TM015 or WPZ0102LTE01)
- Owner's Manual (IVMN20341)
- Quick Use Guide (IVMN20003)











If you need additional operating assistance after reading this owner's manual or to order replacement accessories, please call

TOLL FREE: 1-800-605-8453

or visit our web site at http://www.funai-corp.com

Before you use this unit, you need to complete connections. Refer to "Connections" on pages 13-15.

To record a program easily, refer to "Easy DVD recording" on pages 16-17 after connections are completed.

(You CANNOT record on any copyright protected DVD disc with this unit.)

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



CAUTION:

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



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



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

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.

αII	

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				

Precautions (cont'd)

Important Safeguards

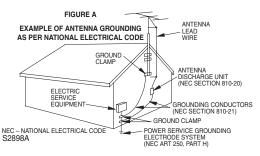
- I. Read Instructions All the safety and operating instructions should be read before the appliance is operated.
- 2. Retain Instructions-The safety and operating instructions should be retained for future reference.
- 3. Heed Warnings All warnings on the appliance and in the operating instructions 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 $_{\rm PORTABLE\ CART\ WARNING}$ with the product. Any mounting of the (Symbol provided by RETAC) 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 S3125A



cause the appliance and cart combination to overturn.

- 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 per-
- 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.

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 until its inside gets dry.

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 outputs

Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of 525 progressive scan picture problems, it is recommended that the user switch the connection to the 'standard definition' output. If there are questions regarding our TV set compatibility with this model 525p DVD recorder, please contact our customer service center.

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
B VD-V	Available to DVD Video discs
OVD-RW	Available to DVD-RW in Video mode
B VD-ŘŴ	Available to DVD-RW in VR mode
B VD-R	Available to DVD-R discs
<u>G</u> o	Available to Audio CDs
	Available to CD-R/RW discs with MP3 files
ŒWor R	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 97-100 before returning the product.
- If 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 benzine, 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" in this Owner's Manual, the laser optical pickup unit may be dirty. Consult your dealer or an Authorized Service Center for inspection and cleaning of the laser optical pickup unit.

DISC HANDLING

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

AUTO HEAD CLEANING

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

NOTES:

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

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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 after that. The following features are offered with this unit.

Recording

DVD mode VCR mode

This unit is compatible with both DVD-RW, which is rewritable repeatedly 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 in the current recording speed 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, you are allowed to experience the theater surround sound from discs with surround sound system.

Quick search for what you want to watch:

You can easily find the part you want to watch using the search function. Search for a desired point on a disc by title, chapter 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 recording 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 remains 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*. 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 manufactures 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 images in higher resolution than that of traditional television signals.

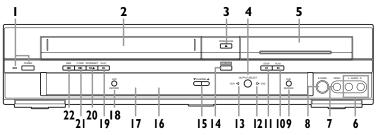
Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

• These jacks are useful only in DVD mode.

Before you start

Functional overview

Front Panel



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, then turn the unit on. Lights up when power is on.

Cassette compartment (VCR) Insert a tape here.

▲ 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 when open.

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. S-VIDEO input jack (LINE2) (DVD only)
Use to connect the S-Video output of external equipment with an S-Video cable.

DVD RECORD button (DVD)

Press once to start recording.

Press repeatedly to start a 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 stop the proceeding timer recording in DVD.

12. DVD SELECT indicator

This indicator appears when the DVD output mode is selected.

13. VCR SELECT indicator

This indicator appears when the VCR output mode is selected.

14. DUBBING button (DVD/VCR)

Press to start VCR to DVD (DVD to VCR) duplication which 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 "Guide to Displays on the front panel" on page 12.

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 start a 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 motion. Press to stop the proceeding timer recording in VCR.

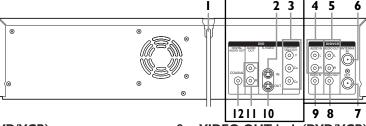
21. F.FWD button (VCR)

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 the playback mode. (Rewind Search)

Rear Panel



AC Power Cord (DVD/VCR)

Connect to a standard AC outlet to supply power to this unit.

S-VIDEO IN jack (LINE1) (DVD only)
Use to connect the S-Video output of external equipment with an S-Video cable.

COMPONENT VIDEO OUT jacks (DVD only)

Use to connect a TV monitor with component video inputs with component video cables.

AUDIO IN jacks (LINE1) (DVD/VCR) 4.

Use to connect external equipment with standard audio cables.

AUDIO OUT jacks (DVD/VCR)

Use to connect a TV monitor, AV réceiver or other equipment with standard audio cables.

ANTENNA IN jack (DVD/VCR) Use to connect an antenna.

ANTENNA OUT jack (DVD/VCR)

Use to connect an antenna cable to pass the signal from the ANTENNA IN to your TV monitor.

VIDEO OUT jack (DVD/VCR)

Use to connect a TV monitor, AV receiver or other equipment with a standard video cable.

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.

11. AUDIO OUT jacks (DVD only)

Use to connect a TV monitor, AV receiver or other equipment with standard audio cables.

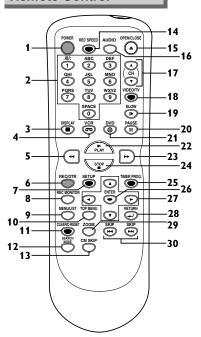
12. COAXIAL DIGITAL AUDIO OUT jack (DVD

Use to connect an AV receiver, Dolby Digital decoder or other equipment with a coaxial digital input jacks with a digital coaxial cable.

Note: Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the unit, from Www.Somanuals.com. All Manuals Search And Download

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.

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.

- DISPLAY button (DVD/VCR)
 Press to display or change the on-screen display.
- 4. VCR button

Press to activate the remote control in VCR mode. (Refer to page 9)

Press to select the VCR out.

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 the playback mode.

REC/OTR button (DVD/VCR)
 Press once to start a recording. Press repeatedly to start
 a 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 scanning mode or the interlace mode.

REC MONITOR button (DVD)
 Press to check the video to be recorded before attempting.

Press to display the Disc menu. Press 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-RÉSET button (DVD/VCR)

DVD mode
 Press to clear the password once entered, to cancel the programming for CD, to clear the selecting 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)
Press to call up the index or
time search menu.

13. CM SKIP button (DVD)

During playback, press to skip 30 seconds.

14. REC SPEED button (DVD/VCR)

Press to switch the recording

15. OPEN/CLOSE ≜ button (DVD) Press to open or close the disc tray.

16. AUDIO button (VCR) During playback a HiFi video tape, press to change the AUDIO OUT setting "HIFI" and "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 the tracking during playback or in slow motion of the tape. Also while playback is in still mode, you can adjust the picture blurred vertically.

18. VIDEO/TV button (DVD/VCR) Press to select VIDEO or TV position.

19. SLOW button (VCR) During playback, press to view the video tape in slow

motion.

20. PAUSE || button

(DVD/VCR)
Press to pause play or recording.

21. DVD button

Press to activate the remote control in DVD mode. (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,

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. ŚTOP ■ 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. Also during pause, press to play reverse step by step.

SKIP ▶▶ button (DVD)

During playback, press to skip to the next chapter or track. Also during pause, press to play forward step by step.

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:

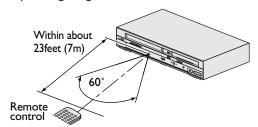
Incorrect use of batteries can result in hazards such as leakage and bursting. Please observe the following:

- 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

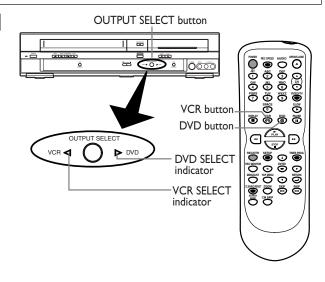
Press the VCR button on the remote control. (Verify that the VCR SELECT indicator is lit.)

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.



Functional overview (cont'd)

Guide to Displays on screen menu

This unit uses the following types of display for most operations. SETUP/DISC/CD menu, Title list, and DIS-PLAY, which allows you to change the playing status of disc during play. DISPLAY 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 of SETUP/DISC/CD by pressing ◀/ ▶ buttons. Then, press ENTER button to display each menu.

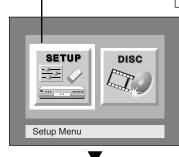
This provides entries to all main functions of the unit.

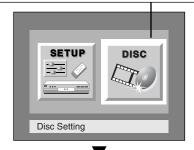
"SETUP" is available only in the Stop mode.

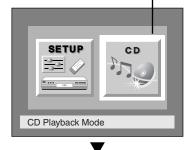
"DISC" is available only when a DVD-R/RW disc is inserted into the unit.

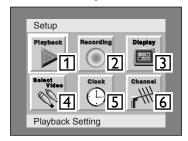
When a DVD-Video disc (commercially available), a new DVD-R disc or the finalized DVD-R disc is inserted into the unit, you cannot select "DISC".

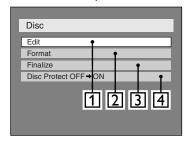
"CD" is available only when an Audio CD disc or a CD-R/RW disc with MP3 files is inserted into the unit.

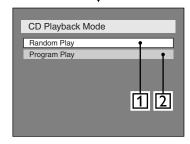












1. Playback:

To set up the unit to play discs as you prefer.

2. Recording:

To set up the unit to record to discs or tapes as you prefer.

3. Display:

To set up the OSD screen as you prefer.

4. Select Video:

To choose a line input to record to DVD discs from other video equipment.

5. Clock:

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

6. Channel:

To make the channel setting of the unit as you prefer.

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 recorded titles.

4. Disc Protect (VR mode only):

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

1. Random Play:

To set the random play programming.

2. Program Play(Audio CD only):

To set the program playing.

Functional overview (cont'd)

Before you start

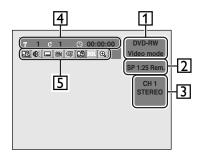
DISPLAY menu

DVD mode



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 41.



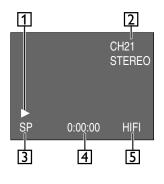
- 1. Indicates the disc type and the format mode.
- 2. Indicates a recording mode and possible recording time
- 3. Indicates a current channel number.
- 4. Indicates a title number, chapter number and the time elapsed of disc play.
- 5. Each icon means:

- [日]: Search
- (C): Audio
- : Subtitle
- :Angle (except VR mode)
- : Repeat
- : Marker
- NR : Noise Reduction
- ⊕ : Zoom

VCR mode



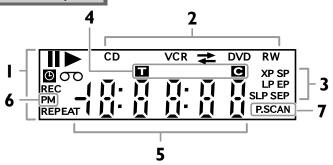
Press DISPLAY button to call up the display menu.



- I. Playback status of the current tape.
- Indicates a current channel number and an audio status of the program.
- 3. Indicates a recording speed only five seconds.
- 4. Indicates a Tape Counter.
- 5. Audio status of the current tape.

Functional overview (cont'd)

Guide to Displays on the front panel



1. Current status of the unit

Appears when a disc or a tape play is paused.

Appears when playing a disc or a tape.

 Appears when the timer programming has been set and is proceeding.

REC: Appears during recording process.

REPEAT:

Appears during repeat play.

OO: 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 disc tray.

DVD : Appears when a DVD disc is inserted in the disc tray. Appears when the timer recording is proceeding in DVD.

Appears when DVD is in the timer recording standby mode.

DVD R: Appears when a DVD-R disc is inserted in the disc tray.

DVD RW:
Appears when a DVD-RW disc is inserted in the disc tray.

VCR: Appears when the timer recording is proceeding in VCR. Appears when VCR is in

Appears when VCR is in the timer recording standby 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 tape.

4. Title/Track and Chapter mark

: Appears when indicating a title/track number.

: Appears when indicating a chapter number.

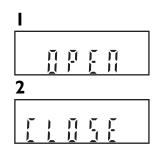
5. Displays the following

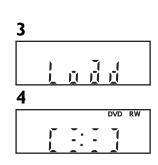
- Playing time / remaining time
- Current title / chapter / track number
- · Recording time
- Clock
- Channel number
- VCR tape counter
- OTR remaining time
- **6. PM** : Appears in the afternoon with the clock displaying.

7. P.SCAN:

Appears when the progressive scan system is activated.

Display message

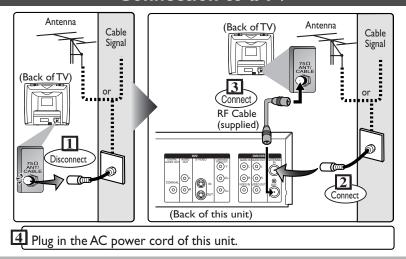




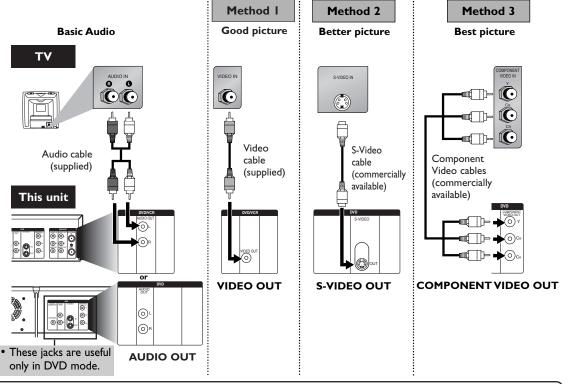
- **1.** Appears when the disc tray is opening.
- **2.** Appears when the disc tray is closing.
- **3.** Appears when a disc is loading in the disc tray.
- **4.** Appears when recording data is writing on to the disc.

Connections

Connection to a TV



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 525p (480p) progressive scanning and you want to enjoy that high quality picture;

You must select the connection Method 3 above and 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 "P.SCAN" will appear on the display of this unit.

If your TV is not compatible with progressive scanning;

Use this unit in interlace mode. Make sure that no "P.SCAN" is on the display of this unit. If not, press and hold the SETUP button on the remote control for more than 3 seconds during DVD playback, so that "P.SCAN" on the display of this unit will disappear.

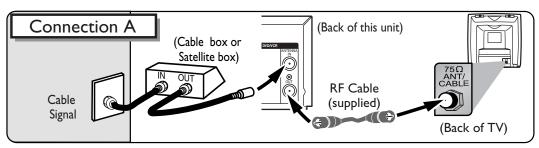


during DVD playback [Interlace mode]

[Progressive scanning mode]

Connections

Connection to a cable box or satellite box

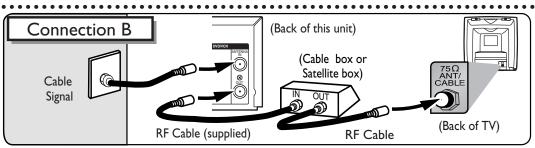


Select this connection when you want to view or record a scrambled channel. With this connection, channels cannot be changed on this unit. You can view or record ONLY the channels you have selected on the cable box or the satellite box.

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

To select channels of the cable box or satellite box

- I) Turn on this unit by pressing POWER button. The power indicator on the front panel will appear. 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 the channel 4, you will need to change this unit's RF output to channel 4. Refer to "RF converter output" on page 100.
- 2) At the TV, select channel 3 or 4 (the same channel as you have selected at step 1).
- 3) At 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 of the cable box or satellite box

- 1) At 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 100.
- 2) At 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 appear. 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 steps 1) to 2) above.

• Refer to "Playback" on pages 44-45, 94.

To view one channel while recording another

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

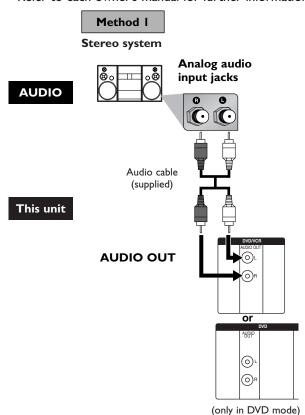
Note to the Cable TV System Installer:

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

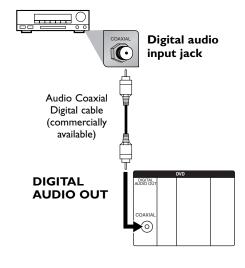
Connection to an Audio System

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



Method 2

Dolby Digital decoder, MD deck or DAT deck



Note

- If output is Dolby Digital encoded audio, connect to a Dolby Digital decoder and set "Dolby Digital" to "Stream" for the "Digital Out" setting in the SETUP menu. (Refer to pages 90-91.)
- The audio source on a disc in a Dolby Digital 5.1 channel surround format cannot be recorded as digital sound by an MD or DAT deck.
- Unless connected to a Dolby Digital decoder, set "Dolby Digital" to "PCM" 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 90-91.)
- 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 90-91.)
- By hooking this unit up to a Multi-channel Dolby Digital decoder, you can enjoy high-quality Dolby Digital 5.1 channel surround sound as heard in the movie theaters.

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 and 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

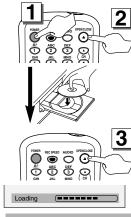
For example, when you want to record repeatedly on the same disc, or when you want to edit the disc after recording, select the rewritable DVD-RW type disc.

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

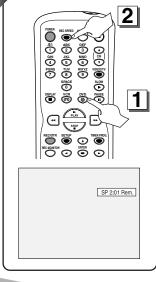
Remote Control



This operation may take a while to be recognized.

Step 3: Select the Recording speed

- Select the DVD mode
- Select the recording speed



DVD disc types

* : Can be used. ☆☆☆: Most suitable. — : Cannot be used. (DVD-RW VR) (DVD-RW Video (DVD-R) You want to Record TV programs *** *** ** Reuse by deleting unwanted contents *** ** Edit recorded contents *** * ☆ Edit/Record from connected equipment *** *** *** Copy discs for distribution ** *** *** **☆☆*** Play on other DVD equipment *** ***

eatures	(DVD-RVV VR	DVD-RW Video	(DVD-R
ecording			
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
liting			
Can perform basic edit functions	Yes	Yes	Yes
Can perform advanced edit functions (Playlist edit)	Yes	No	No

OVD-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.

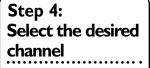
Format the disc

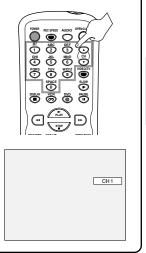
Insert the disc in the unit. Then format the disc from SETUP menu. Video format (Video mode) or Video recording format (VR mode) will be available depending on the disc type inserted.

This is necessary to prepare the disc for recording. Details are on pages 28-30.

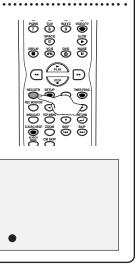
*When you format, the entire contents on that disc will be erased.

Easy DVD recording (Cont'd)

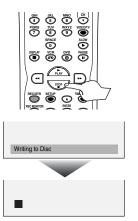




Step 5: Record to DVD discs



Step 6: Stop the Record



This operation may take a while to be completed.

Hint I: Play the recorded contents

You can select the title you want to play from a 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.

Title 1 Title 2 Chapter 1 Chapter 2 Chapter 3 Chapter 1 Chapter 2

Hint 2: Edit 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.

Channel setting

All channels are stored in the unit when purchased. We recommend that you program available channels in your area using "Auto Preset" in the Channel Preset of the SETUP menu.

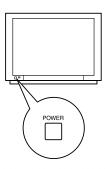
Getting channels automatically

1

Press POWER button to turn on the unit.

2

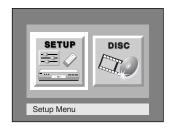
Turn the TV on and be sure to select the input to which the unit is connected.



3

Press SETUP button to display SETUP/DISC menu.

SETUP/DISC menu will appear.
Screen:





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

SETUP menu will appear.





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

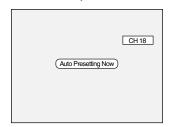
Channel Preset menu will appear.





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

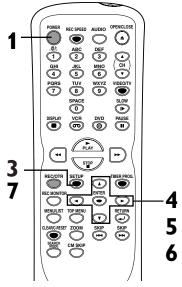
The unit will start getting channels available in your area.





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 38.

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 setting (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.

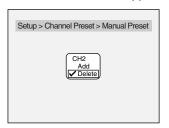
Channel Preset menu will appear.





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.



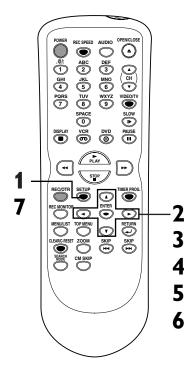


Select "Add" or "Delete" using ▲ / ▼ buttons, then press ENTER button.

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.



Press SETUP button to exit.



Selecting the TV stereo or SAP

You can select a sound channel to output from TV. "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.





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

Channel Preset menu will appear.





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

Option window will appear.





Select "Stereo" or "SAP" using ▲ / ▼ buttons, then press ENTER button.

Stereo:

Outputs main-audio.

SAP:

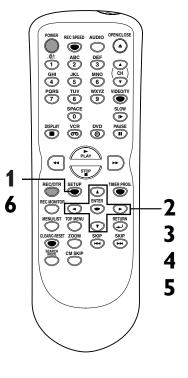
(Secondary Audio Program)

Outputs sub-audio.

Refer to the item in "Glossary" on page 102 for more information.



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.

	11 1		
Selected	Broadcast	Disc/tape	Audio
audio	audio	recording	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

• As can be seen in the above table, 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.

Clock setting

Set the clock before you try the 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 22-23.

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 them to set the clock automatically.



Press SETUP button to display SETUP/DISC menu.

SETUP/DISC menu will appear.
Screen:



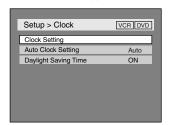
2 Select "SETUP" using </ > buttons, then press ENTER button. SETUP menu will appear.



3

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

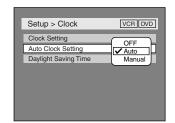
Clock menu will appear.



4

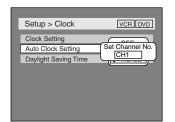
Select "Auto Clock Setting" using ▲ / ▼ buttons, then press ENTER button.

Option window will appear.





- If you do not know your PBS channel number, select "Auto" using ▲ / ▼ buttons, then press ENTER button.
- 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.



Press SETUP button to exit.

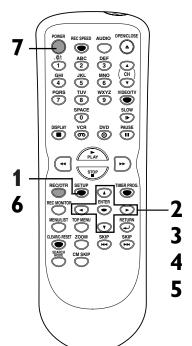


Press POWER button to turn off the unit.

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

- 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 of the front panel.
- If the current time is not displayed or the displayed clock is not correct, set the clock manually.



Clock setting (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.

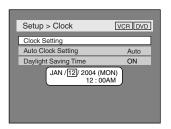


Press ENTER button again. Default date will appear.

5

Enter the date (month / day / year) using \blacktriangle / \blacktriangledown buttons.

Press ◀ / ▶ buttons to move the cursor.

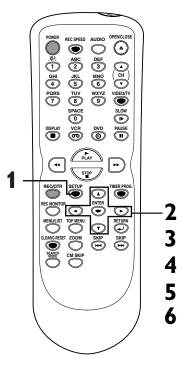




Enter the time (hour / minute) using ▲ / ▼ buttons.

Press ◀ / ▶ buttons to move the cursor.





Note

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

Clock setting (cont'd)

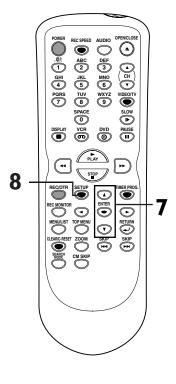
Press ▲ / ▼ buttons to select AM or PM, then press ENTER button.

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



Press SETUP button to exit.

Although seconds are not displayed, they begin counting from zero.



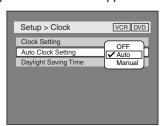
When "Auto Clock Setting" is selected to "Auto" or "Manual", change it to "OFF" as following steps.

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

4

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

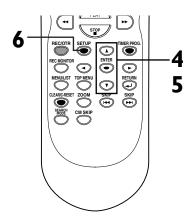
Option window will appear.



5

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

Press SETUP button to exit.



Clock setting (cont'd)

Setting the daylight saving time

When Daylight Saving Time is ON, the 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.

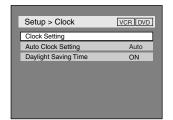
SETUP menu will appear.



3

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

Clock menu will appear.





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

Daylight Saving Time options will appear.



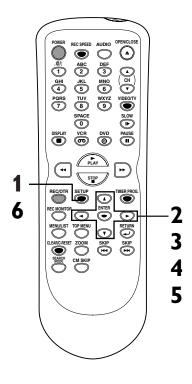
5

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

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



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.

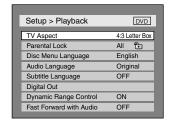
Setup Menu



3

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

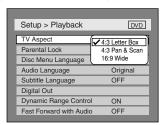
Playback menu will appear.





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

Option window will appear.



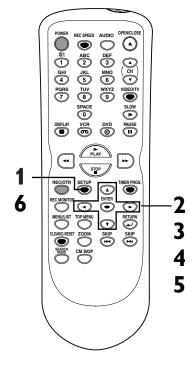
Refer to the Note on this page.



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



Press SETUP button to exit.



Note

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".

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 a recording format will be "Video mode".

On the other hand, when recording to DVD-RW, a 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 disc Approx. max. recording time (SEP mode): 600 minutes (4.7GB)
R R 4.7	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

About Video mode and VR (Video Recording) mode

Video mode is the same recording format as 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 (see page 41). If not finalized, you can play, record additionally or edit discs recorded in Video mode with this unit. VR (Video Recording) mode is a basic recording format for DVD-RW. You can record and edit repeatedly.

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

Disc type	Disc format	Functions
DVD	Video mode	Playing, limited recording, limited editing
DVD-RW	VR mode	Playing, recording, Original/Playlist editing
R R R4.7 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.

6 1 7		
Recording speed	Recording time *	Video/Sound Quality
XP (IH)	60 min	****
SP (2H)	I20 min	***
LP (4H)	240 min	***
EP (6H)	360 min	***
SLP (8H)	480 min	**
SEP (10H)	600 min	☆

^{*}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.

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.

^{*}The audio and video quality is getting poorer as the recording time becomes longer.

Information on DVD recording (cont'd)

Recording

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
Q_VR	ver.1.1	☆		
CDVDRW	ver.1.1 CPRM compatible	☆	☆	_
Video	ver.1.1	☆	_	_
∠DVD -RW	ver.1.1 CPRM compatible	☆	_	_
B VD#R	ver.2.0	☆	_	_

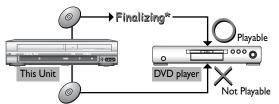
- ☆ Recordable
- Not Recordable

Note

- 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, 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.

Making discs playable in other DVD player (Finalize)

After recording, you must finalize a disc in order to play on any other unit. (Refer to page 41.)



* 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

Formatting a disc

Settings for the recording format to a blank disc





When inserting a blank disc, the unit starts to initialize the blank disc.

After that, you can record to the disc with the recording format selected in SETUP menu.

You are allowed to set a specified time for chapter marks.

Press SETUP button to display SETUP/DISC menu.

SETUP/DISC menu will appear. Screen:



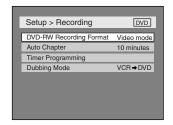
Select "SETUP" using ◀/▶ buttons, then press ENTER button.

SETUP menu will appear.



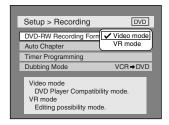
Select "Recording" using ▲ / ▼ / ◀ / ▶ buttons, then press **ENTER** button.

Recording menu will appear.



4

Select "DVD-RW Recording Format" using \triangle / ∇ buttons, then press ENTER button. Option window will appear.

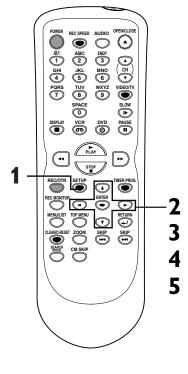


Video mode has been selected as the default.



Select "Video mode" or "VR mode" using ▲ / ▼ buttons, then press ENTER button.

The recording mode will be set.



Note

- 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 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.
- 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.

rs Español

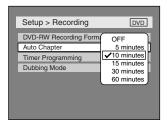
Formatting a disc (cont'd)

Recording

6

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

Option window will appear.



"10 minutes" has been selected as the default.

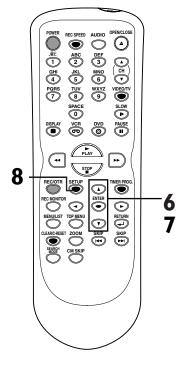
7

Select a desired time option using \triangle / ∇ buttons, then press ENTER button.

Chapter marks will be put as you specified.

8

Press SETUP button to exit.



Note

 The time for chapter marks is not accurate in Video mode.

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

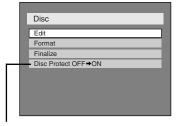
Press SETUP button to display SETUP/DISC menu.

SETUP/DISC menu will appear.
Screen:



2

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



*VR mode only



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

Option window will appear.

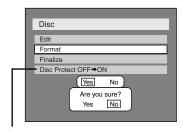


*VR mode only



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

Option window will appear.

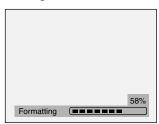


*VR mode only



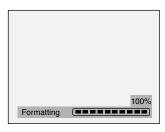
Select "Yes" using ◀/ ▶ buttons, then press ENTER button.

Formatting will start.

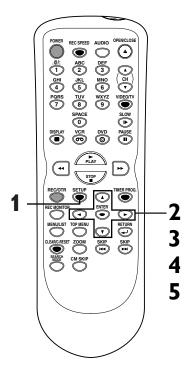




Formatting is complete. 100% will be indicated.



This operation may take a while to be completed.



Note

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

Basic recording







Follow the steps below to record TV programs.

First: 🛚 💆

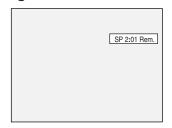


Turn on the unit and load a recordable disc.

Make sure that the TV input is set on the unit.

This operation may take a while to be recognized.

Select a recording speed using REC SPEED button.



Refer to "Recording speed" on page 26.

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

Refer to "Formatting a disc" on pages 28-30.

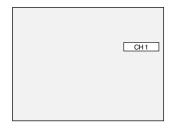
When a DVD-RW disc is loaded:

You can choose Video mode or VR mode from SETUP menu. "Video mode" has been selected as the default. Refer to "Settings for the recording format to a blank disc" on pages 28-29.

When a DVD-R disc is loaded:

DVD-R discs will always be in Video mode.

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



Press REC/OTR button to start recording.

mark will be displayed for 5 seconds.

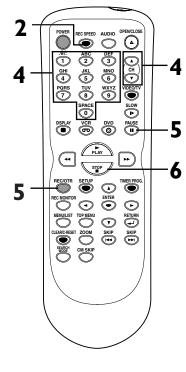


To pause the recording, press PAUSE II button. Press REC/OTR button to restart the recording.



Press STOP ■ button to stop the recording.

This operation may take a while to be completed.



Note

- Recording starts immediately and continues until the disc becomes 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.
- mats 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.

You cannot mix two for-

Basic recording (cont'd)

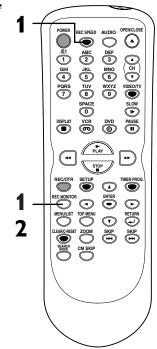
Checking the recording picture quality



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

L Press

Press REC MONITOR button again to exit.

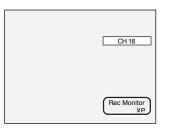




While the unit is in STOP or REC with a DVD disc to record inserted, press REC

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

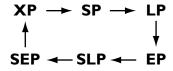
MONITOR button.



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 26.

You cannot change the recording speed during recording.



Note

 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: 🛚



Turn on the unit and load a recordable disc.

Make sure that the TV input is set on the unit.

This operation may take a while to be recognized.

Select a recording speed using REC SPEED button.

Refer to "Recording speed" on page 26.

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

Refer to "Formatting a disc" on pages 28-30.

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 pages 28-29 "Settings for the recording format to a blank disc."

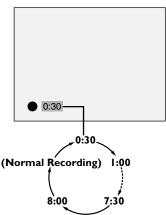
When a DVD-R disc is loaded: DVD-R discs will always be in Video mode.

4

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

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

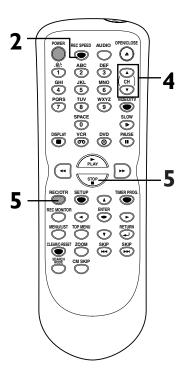
Recording will start.



When the unit reaches the specified time, it will turn off automatically.

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

This operation may take a while to be completed.



Note

- 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.
 - I)No space remained on the
- 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.

33

Timer 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.

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

Press SETUP button to display SETUP/DISC menu.

SETUP/DISC menu will appear. Screen:



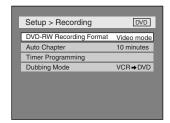
Select "SETUP" using ◀/▶ buttons, then press ENTER button.

SETUP menu will appear.



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

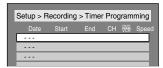
Recording menu will appear.





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

Timer Programming list will appear.



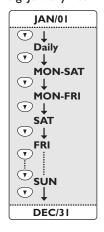
Select the program which is not set up using ▲ / ▼ buttons, then press ENTER button.



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

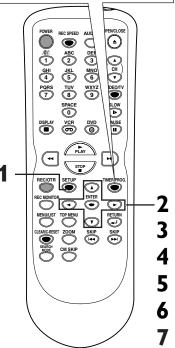


e.g. January 1st

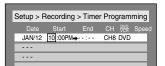


When pressing ▼ button at the current date, timer recording mode will change as follows.

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



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



Note

• If you have not set the clock yet:

A clock setting window will appear after step 4. Continue with the step 4 in "Auto Clock Setting" on page 21 or "Manual Clock Setting" on page 22 before making a timer programming.

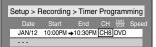
Press ◀ or ▶ buttons to move the cursor to the left and the right in the timer programming menu.

(

Timer recording (cont'd)

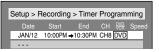
Recording

Select the channel number to record using **△** / **▼** buttons, then press ▶ button.



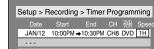
To record from external input, L1

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.

Select a recording speed using ▲ / ▼ buttons.



Refer to "Recording speed" on page 26 for DVD or page 94 for VCR.

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.

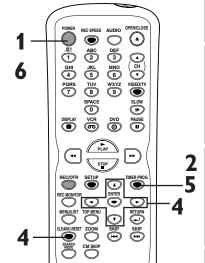
Press POWER button to turn off.

indicator will appear on the front display.

Note

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

SKIP



 Press TIMER PROG. button to check the timer programming

When the timer recording is in process, that program will be red highlighted. In this case,

you cannot select any other

in process.

program.

information

Checking, canceling, or correcting the timer programming

Press POWER button so that

indicator disappears from the front display.

Press TIMER PROG. button.

Timer Programming list will appear.

Setup > Recording > Timer Programming Date Start End CH WCR Sp JAN/12 10:00PM →10:30PM CH8 DVD 1H

Check the information on the list you will need.

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 $\triangle/\nabla/\blacktriangleleft/\triangleright$ buttons. Finally, press ENTER button again.

Press TIMER PROG. button to exit.

Press POWER button to return to the timer standby mode.

To stop the timer recording in process

Press STOP ■ button to stop the disc recording or STOP/E|ECT ■ ▲ to stop the tape recording on the front panel of the main unit. STOP

but-

ton on the remote control is not effective.

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35

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.
 The timer recording is not 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.
- 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.

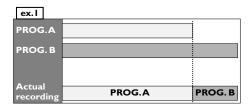
The priority of overlapped settings

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

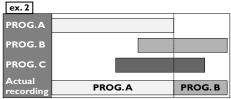
A timer recording of lower priority will be canceled, start from the middle or stop on the way. Check the overlapped timer programmings and change the priority if necessary.

A programming set previously has priority

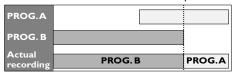
☐ When the starting time is the same: A program set previously (PROG.A) has priority.



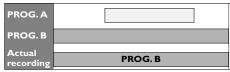
■ When some programming have been made at the end time of the programming currently being recorded: A program set previously (PROG. B) has priority.



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

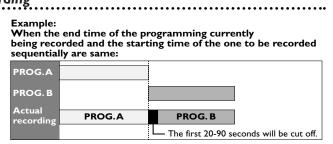


■ When the recording time is entirely overlapped: PROG. A will not be recorded.



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.



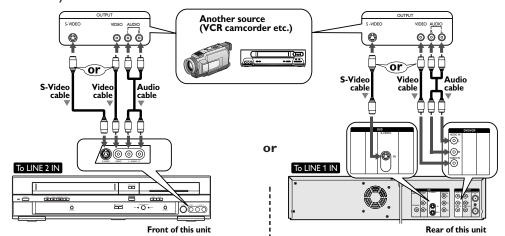
Settings for an external source

Recording

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 commercially available S-Video or Video cable and an Audio cable for this connection.



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

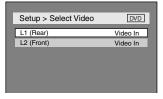


4. Select "L2 (Front)" using ▲ / ▼ buttons, then press ENTER button.





- 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".



Settings for an external source (cont'd)

Recording from an external source



Before recording from an external source, see the instructions for the connection on page 37.

- 1. Turn the TV and the unit on, and be sure to select the input of the TV to which the unit is connected.
- 2. When you want to record to the disc: Press: Press OPEN/CLOSE ▲ button to open the disc tray, then place the disc to record properly.

This operation may take a while to be recognized.

When you want to record to a tape: Press: Figure 1. Insert the tape with a safety tab into the cassette compartment.

- 3. Select the input of the unit which the external equipment is connected. (L2 or L1)
 - •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 \triangle / ∇ 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 \blacktriangle / \blacktriangledown buttons.
- **4. Select a recording speed using REC SPEED button.** Refer to "Recording speed" on page 26 for DVD or page 94 for VCR.



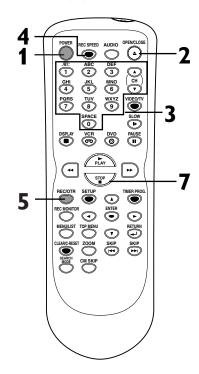
- 5. Press REC/OTR button on the unit to start recording.
- 6. Press PLAY button on the external source to record from.
- 7. For disc:

Press STOP ■button on the unit to stop recording.

This operation may take a while to be completed.

For tape:

Press STOP/EJECT \blacksquare \triangleq button on the unit to stop recording.



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 or the tape is not copy protected. Before starting this function, prepare for the recording on the DVD-R/RW disc or the videotape. Refer to pages 31-32, 94.

Make sure:

· Insert a disc and a tape with a safety tab.

Note for recording to a tape:

- The tape's record tab is intact.
- The videotape is long enough to record the DVD disc.

Note for recording to a disc:

• The DVD disc is satisfied with the recording status. Refer to pages 26-27.



Press SETUP button to display SETUP/DISC menu.

SETUP/DISC menu will appear. Screen:





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

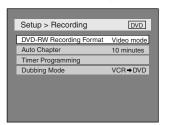
SETUP menu will appear.

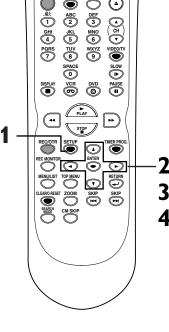




Select "Recording" using ▲ / ▼ / ◀ / ▶ buttons, then press **ENTER** button.

Recording menu will appear.





4

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

Option window will appear.



Note

For VCR to DVD duplication:

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

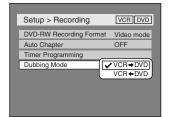
This is not a malfunction. Be advised to playback the tape until the picture is stabilized, then set the starting point which you wish to start recording, and start VCR to DVD duplication.

Instructions continue on page 40.

Dubbing Mode (cont'd)

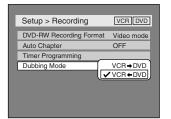
VCR to DVD

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



DVD to VCR

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-b

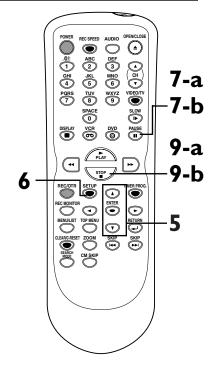
Press PLAY ▶ button on the unit, and then press PAUSE button at the point you wish to start recording.

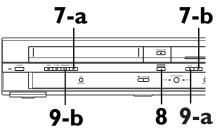
Press DUBBING button on the front of the unit.

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

 When you turn off the unit after setting the Dubbing Mode to $VCR \leftarrow DVD$, 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 96. Set the playback sound mode to which you wish to record to the DVD.



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 **DUBBING** button on the front of the unit.

VCR to DVD duplication will start.



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

Recording Finalizing the discs

BYDER BYDERY BYDERY

You will need to finalize the 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 26-27.

Press SETUP button to display SETUP/DISC menu.

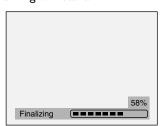
SETUP/DISC menu will appear.



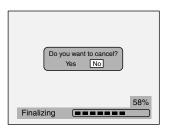
*VR mode only

Select "Yes" using ◀ / ▶ buttons, then press ENTER but-

Finalizing will start.



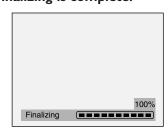
To cancel finalizing, press STOP ■ button.



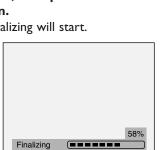
Select "Yes", then press **ENTER** button.

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

Finalizing is complete.



This operation may take a while to be completed.



· Finalizing discs in Video mode automatically creates title menus.

 \odot

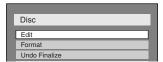
(H

(<u>•</u>)

0

DEF MNO 6

- 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 \(\infty \) appear when pressing STOP button at step 4, you cannot cancel finalizing because the finalizing has been in certain progress.
- When selecting "No" at step 4, press ENTER or RETURN button, finalizing will be continued.
- You cannot cancel finalizing the DVD-R disc when it has been started.
- *DO NOT power off during finalizing, this will result in malfunction.



2

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

DISC menu will appear.



*VR mode only

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

Option window will appear.

Setting a disc to protect



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

1

Press SETUP button to display SETUP/DISC menu.

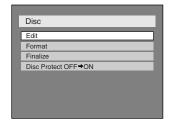
SETUP/DISC menu will appear.
Screen:



2

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

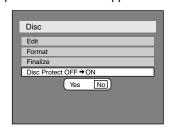
DISC menu will appear.



3

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

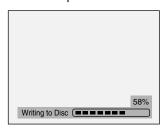
Option window will appear.



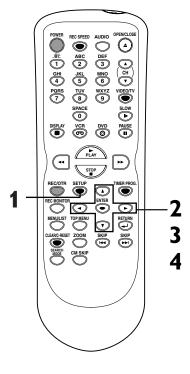
4

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

A disc will be protected.



This operation may take a while to be completed.



Note

- 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".

Information on DVD play

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

Playable discs

This unit is compatible to play the 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	VIDEO
DVD-RW (VIDEO/VR FORMAT)	R W
DVD-R (VIDEO FORMAT)	R R 4.7
CD-DA (AUDIO CD)	DIGITAL AUDIO
CD-R (CD-DA FORMAT, MP3 files)	Recordable
CD-RW (CD-DA FORMAT, MP3 files)	ReWritable

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 systems.

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.



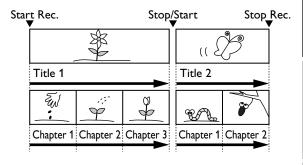


The number inside the globe refers to region of the world. Region 1 represents the United States, Canada, Bermuda, the U.S.Virgin Islands and small regions near Australia.

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

Hint for DVD playback

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

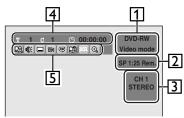


Guide to displays

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.



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

Each icon means:

্রের্ডা: Search

(C): Audio

☐ : Subtitle

:Angle (except VR mode)

🕏 : Repeat

Marker:

III : Noise Reduction

① : Zoom

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 unit is connected.

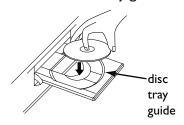
2

Press OPEN/CLOSE <u>★</u> 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.



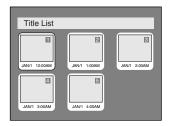
This operation may take a while to be recognized.

4

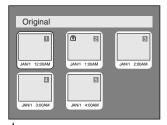
Press TOP MENU button to display the title menu.

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

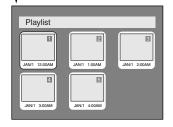
Video mode:



VR mode:



MENU/LIST button



5

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

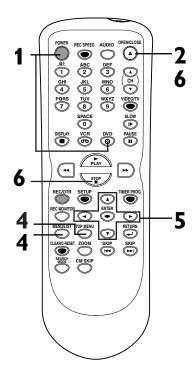
Playback will start.



Press STOP ■ button to stop playback.

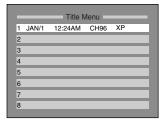
To eject the disc, press

OPEN/CLOSE ▲ button to open
the disc tray, then remove the disc
before turning off the unit.



Note

 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 48 for details about resume play.
- Some discs may start playing automatically.

Playing discs Basic playback (cont'd)

BVDV BD MP3





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 unit is connected.

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

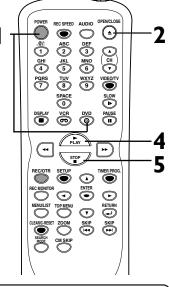
Place the disc onto the disc tray with its label facing up and make sure to align the disc to the disc tray guide.

Press PLAY ▶ button to start playing.

Playback will start.

If you are playing a DVD-Video disc, a menu may appear. Refer to pages 46-47 for details about a disc menu.

Press STOP ■ button to stop playing.

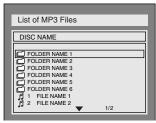


Note

 Some discs may start playing automatically.

For MP3 playback

In stop mode, press TOP MENU button to call up the MP3 menu.



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

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 the folder will appear. Press ▲ or ▼ button to select the track or folder you want, then press ENTER button.

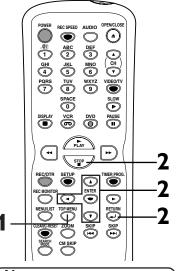
- When selecting a folder, press PLAY ▶, ENTER or ▶ button to go to the lower hierarchy.
- Press ■ button or RETURN button to go to the previous hierarchy.
- Press STOP button to return to the first item.

Hints for MP3 files:

- Folders are known as Groups, files are known as Tracks.
- Folders are accompanied by \square icon.
- MP3 files are accompanied by \$\mathcal{I}\$ icon. Reproduction 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 the 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

- The audio source of MP3 files cannot be recorded as digital sound by an MD or DAT deck.
- Files whole extension 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.

Basic playback (cont'd)

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, otherwise only appear when you press MENU/LIST button.



1

Press MENU/LIST button.

The DVD main menu will appear.

If the feature is not available, \bigcirc may appear on the TV screen.



2

Select an item using $\triangle / \nabla / \triangle / \triangleright$ 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:

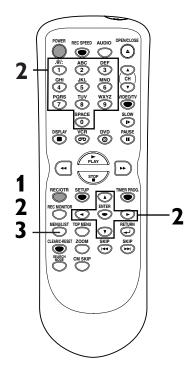
Selects the currently highlighted menu option.

Number buttons:

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

3

Press MENU/LIST button to exit the menu.



Note

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

Basic playback (cont'd)

Playing discs

Playing discs using the title menu



Some DVDs have a title menu. which lists the titles available on them. It helps you to start playback at a specific title.



Press TOP MENU button.

The title menu will appear.

If the feature is not available, \(\infty \) 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:

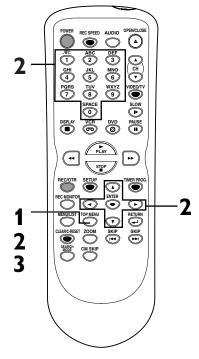
Selects the current highlighted menu option.

Number buttons:

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



Press TOP MENU button to exit the title 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.

Special playback

Resume play

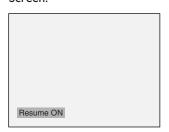
■ button.



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

During playback, press STOP

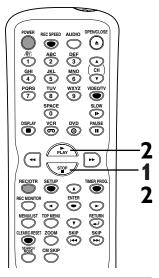
The resume message will appear. Screen:



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

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

Fast forward / Fast reverse

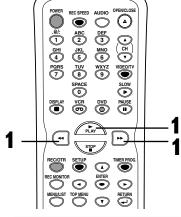


During playback, press ▶▶ or ◀◀ button.

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 fixed at x8 with sound. For MP3 files, approximate speed is fixed at x16. To return to the normal playback, press PLAY ▶ button.



Note

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

Forward (Approx. Speed)

x2: ▶► x20: ▶₩

Reverse (Approx. Speed)

x5: ▶◀ x20: ►≪

x40: ▶◀◀

Special playback (cont'd)

Playing discs

Skipping TV commercials during play







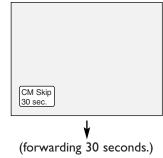
You can skip TV commercials by pressing CM SKIP button, so that you can enjoy the recorded programs without interrupting.

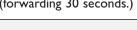
During playback, press CM SKIP button.

Normal playback will start at 30 seconds ahead from the point you press CM SKIP button. Every time you press CM SKIP button, the searching point will be

extended by 30 seconds ahead. You can press up to 6 times (180 seconds).

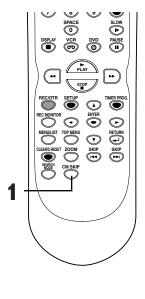








Playback will restart automatically.



Pause

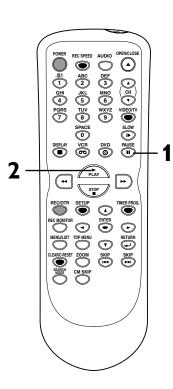


During playback, press PAUSE II button.

Playback will pause and sound will be muted.



Press PLAY ▶ button to resume play.



Special playback (cont'd)

Step by step playback



During playback, press PAUSE | | button.

Playback will pause and sound will be muted.



2

Press SKIP ▶▶| button repeatedly.

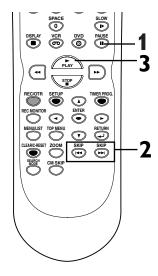
The playback will advance one frame (or step) at a time when you press the SKIP ►► button with the sound muted.

To play step by step backward:

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

3

Press PLAY ▶ button to resume play.

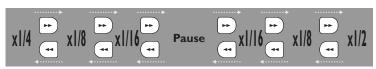


Slow forward / Slow reverse play

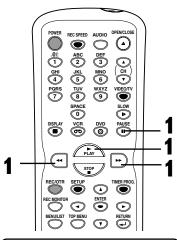


During playback, press PAUSE ■■ button, then press ▶▶ or ◀◀ button.

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

 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: ►

Special playback (cont'd)

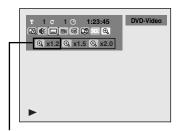
Playing discs

Zoom



During playback, press **ZOOM** button.

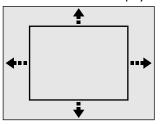
Zoom menu will appear. Screen:



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

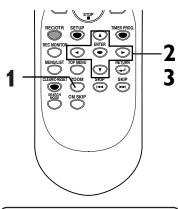
Select a desired zoom factor to zoom using **◄**/ ▶ buttons, then press ENTER button.

The zoom area will be displayed.



Select a desired zoom position using $\blacktriangle / \blacktriangledown / \blacktriangleleft / \blacktriangleright$ buttons, then press ENTER button.

The zoom play will start.



Note

- 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 $\times 1.0$ using \triangleleft / \triangleright buttons, then press ENTER button.

Marker Setup



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

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

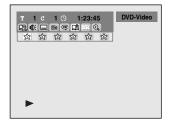
The display menu will appear. Screen:



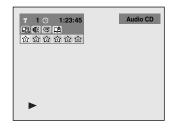
Select icon using /▶ buttons, then press ENTER button.

Marker setup menu will appear.

Screen for DVD:

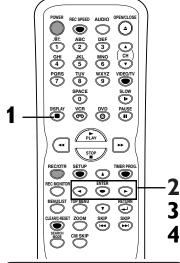


Screen for CD:



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

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



Note

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

Search

Title/Chapter search





Using SKIP |◀◀ / ▶▶| buttons

During playback, press SKIP

▶▶I 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 I◀◀ button. The title or chapter will move backward one title at a time.

Using DISPLAY button

During playback, press DIS-PLAY button.

The display menu will appear. Screen:



7

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.

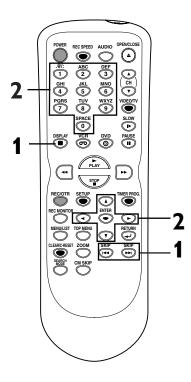
Chapter:

To move to 'C' for chapter, press

button.

Enter a desired chapter number to search using \triangle / \blacktriangledown buttons or number buttons, then press ENTER button.

Chapter search will start.



Search (cont'd)

Track search





Using SKIP |◀◀ / ▶▶| buttons

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 I◀◀ button. The track will move backward one at a time.

Using DISPLAY button 1

During playback, press DIS-PLAY button.

The display menu will appear. Screen:



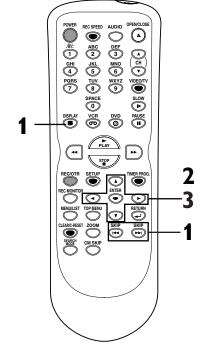


'T' for track will be highlighted.

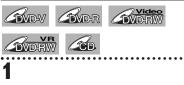


Enter a desired track number to search using ▲ / ▼ buttons or number buttons, then press ENTER button.

Track search will start.



Time search



During playback, press DIS-PLAY button.

The display menu will appear. Screen for DVD:



Screen for CD:



2

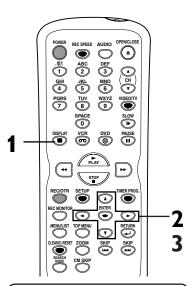
'T' for title or track will be highlighted.

To move to the clock icon, press button.



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

Time search will start.



Note

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

Repeat/Random/Program play

Repeat play



During playback, press DIS-PLAY button.

The display 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.

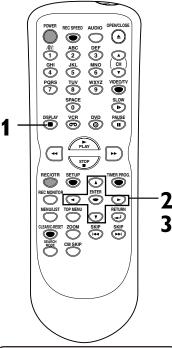
Press ENTER button again to select the ending point (B).

Track:

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

Group:

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



Note

- The A-B Repeat playback can only be set within the current title (for DVDs), or current track (for Audio CDs).
- To cancel the 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 it in the original order.

First: 🎵



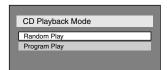
Press SETUP button to display SETUP/CD menu.
SETUP/CD menu will appear.

Screen:



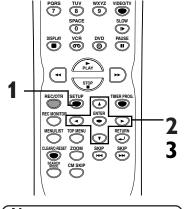
2 Select "CD" using ◀/► buttons, then press ENTER button.

CD Playback Mode menu will appear.



3
Select "Random Play" using

▲ / ▼ buttons, then press
ENTER button.
Random playback will start.



Note

 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 in your desired order.



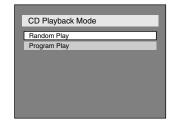
Press SETUP button to display SETUP/CD menu.

SETUP/CD menu will appear. Screen:



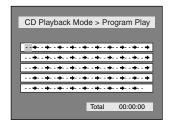
Select "CD" using ◀/▶ buttons, then press ENTER button.

CD Playback Mode menu will appear.



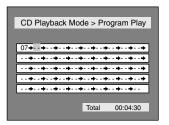
Select "Program Play" using ▲ / ▼ buttons, then press **ENTER** button.

Program play list will appear.



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

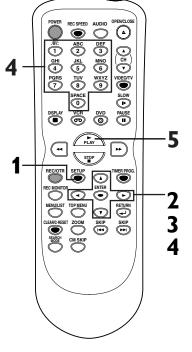
A cursor will move to the next.





Press PLAY ▶ button to start program playback.

Program playback will start.



Note

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

Selecting the format of audio and video

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

Switching audio soundtrack



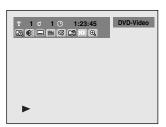


When playing a DVD-Video disc recorded with two or more soundtracks (these are often in different languages), you can switch between them anytime during playback.

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

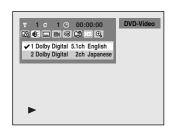
During playback, press DIS-**PLAY** button.

The display menu will appear. Screen:

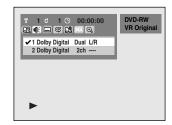


Select **!** icon using **◄** / ▶ buttons, then press ENTER button.

Audio menu will appear. <DVD-Video>



<DVD-RW VR mode>

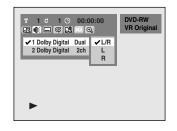


Select a desired audio soundtrack using **▲** / **▼** buttons, then press ENTER button.

<DVD-Video>

Audio soundtrack will switch.

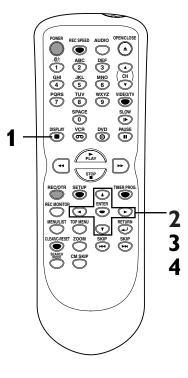
<DVD-RW VR mode> Audio channel menu will appear. Follow the step 4.





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

Audio channel will switch.



Note

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

Selecting the format of audio and video (cont'd)



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

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

The display menu will appear. Screen:



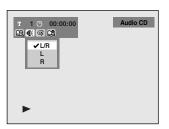
2

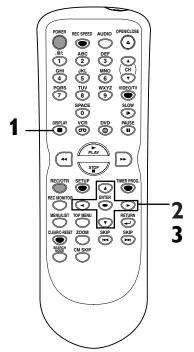
Select (0€) icon using **◄**/► buttons, then press ENTER button.

Audio menu will appear.

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

Audio channel will switch.





Switching subtitles



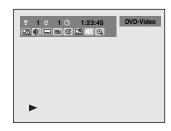


Many DVD Video discs have subtitles in one or more languages. The case usually tells you which subtitle languages are available. You can switch subtitle languages anytime during playback.



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

The display menu will appear. Screen:



Select □ icon using buttons, then press ENTER button.

Subtitle menu will appear.

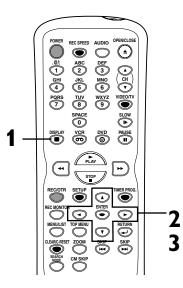




Select a desired subtitle language using ▲ / ▼ buttons, then press ENTER button. Subtitle will be displayed in the

selected language.

When selecting "OFF," subtitle will disappear.



Note

 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.

Selecting the format of audio and video (cont'd)

Switching camera angles

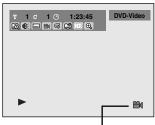


Some DVD Video discs feature scenes shot from two or more angles, check the case for details: it should be marked with an angle icon if it contains multi-angle scenes.

1

During playback, press DIS-PLAY button.

The display menu will appear. Screen:

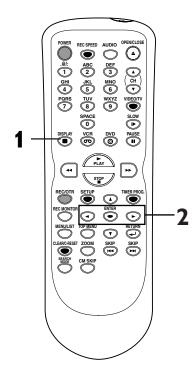


Angle icon appears when a switching camera angle is available.

2

Select icon using / ► buttons, then press ENTER button.

Angle will switch each time you press ENTER button.



Reducing block noise



BYDRW

1

During playback, press DIS-PLAY button.

The display menu will appear. Screen:



2

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

Noise Reduction menu will appear.

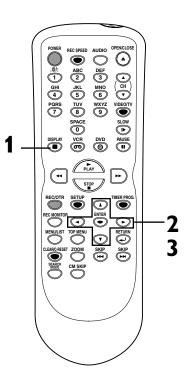


3

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 I" or "Type 2". ("Type 2" is more effective.) When playing back discs with a few noises such as DVD-Video discs, select "OFF".

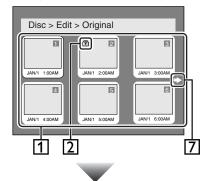


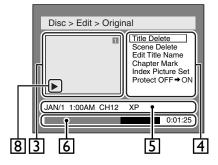
Information on disc editing

Editing

Guide to a title list

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





- 1. Titles recorded on the disc can be selected to edit by pressing ENTER button with the cursor on the title.
- **2.** Protect icon, which appears when the title has been protected.
- 3. The selected title thumbnails from the title list.
- **4.** The menus in here for editing titles as you prefer. The available menus depends on the disc type and the format type.
- **5.** The details of the title, which can be changed to the title name you will edit.
- 6. Time status bar of the 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. Be sure that once you edit titles, they will not remain as recorded originally.

- Deleting titles (Refer to page 61)
- Putting names on titles (Refer to pages 62-63)
- Setting or clearing chapter markers (Refer to page 64)

Note

- Once a disc is finalized, 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.

Information on disc editing (cont'd)

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 65)
- Deleting parts of titles (Refer to pages 66-67)
- Putting names on titles (Refer to pages 67-68)
- Setting or clearing chapter markers (Refer to pages 69-70)
- Setting pictures for thumbnails (Refer to pages 70-71)
- Setting titles to protect (Refer to page 72)
- Releasing titles from protecting (Refer to page 73)

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 74)
- Deleting parts of titles (Refer to pages 75-76)
- Putting names on titles (Refer to pages 76-77)
- Setting or clearing chapter markers (Refer to pages 78-79)
- Setting pictures for thumbnails (Refer to pages 79-80)
- Adding titles to a playlist (Refer to page 81)
- Deleting a playlist (Refer to page 82)

Note

• 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 74-82)

RETURN

DEF MNO 6 WXYZ 9

OVD O

ABC
2
JKL
5
TUV
8
SPACE
VCR

Editing

Editing DVD-RW discs in Video mode

Deleting titles



You can delete titles which you do not need anymore.

Be sure to know that the 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 to record will be increased.



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

DISC menu will appear.



Select "Edit" using ▲ / ▼ buttons, then press ENTER but-

Titlelist will appear.

Screen:





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

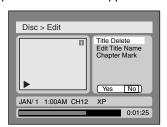
Edit menu will appear.



4

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

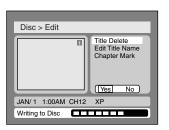
Option window will appear.





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

Title will be deleted.



This operation may take a while to be completed.



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



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

Putting names on titles



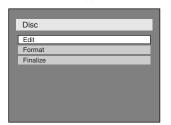
You can put title names on the titles and change the names from this menu.

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.

Titlelist 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.

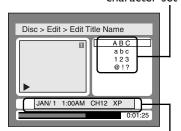
A window for entering a title name will appear.



5

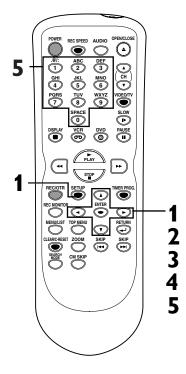
To enter a title name, follow the steps of "Guide to edit title name" on this page.

character set

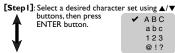


area for entering title names

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



[Guide to edit title name]



[Step2]: Press Number buttons following by the list

Select	ABC	abc	123	@!?
0	<space></space>	<space></space>	0	<space></space>
1	*	*	ı	!"#\$% &'()* +,/:; <=>! @[]^ _{ }
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-CRESET 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 DVD-RW discs in Video mode (cont'd)

6

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

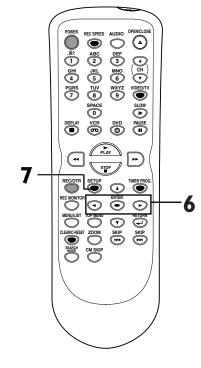
The name you entered will be activated for the title.



This operation may take a while to be completed.



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



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

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 with more than 5 minutes.





1

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

DISC menu will appear.

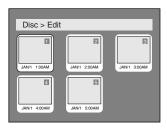




Select "Edit" using ▲ / ▼ buttons, then press ENTER button.

Titlelist will appear.

Screen:





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

Edit menu will appear.





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

Option window will appear.





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

Option window will appear.



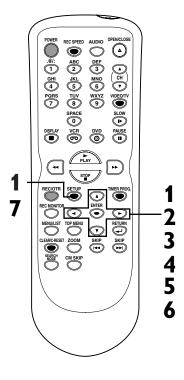


Select "Yes" using ◀/ ▶ buttons, then press ENTER button.

Chapter markers will be added at a specified time.



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



Note

- You cannot select a time for putting markers beyond a 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 to record will be increased. Be advised that the titles once deleted cannot be brought back to the disc.

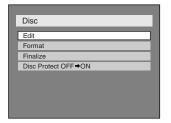
First:



1

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

DISC menu will appear.

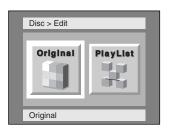


7

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

Original/PlayList menu will appear.

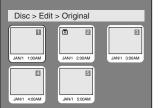
Screen:



3

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

Original list will appear.



4

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

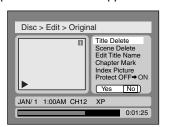
Original menu will appear.



5

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

Option window will appear.



6

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

Title will be deleted.

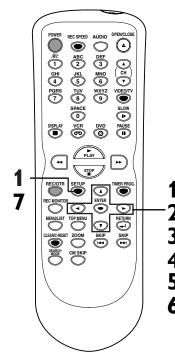


This operation may take a while to be completed.

7

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

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

Deleting parts of titles



You can delete part of a title, the disc space to record will be increased.

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

First:



1

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

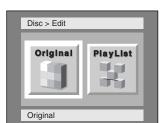
DISC menu will appear.



2

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

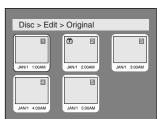
Original/PlayList menu will appear. Screen:



3

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

Original list will appear.





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.

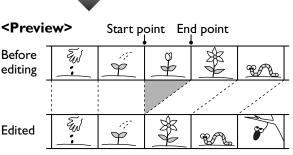


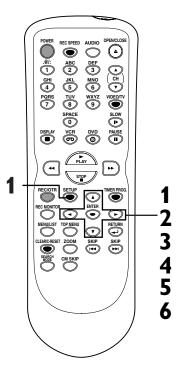


Press ENTER button to decide a start point, then press ENTER button to decide an end point.

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







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

Editing

7

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

Option window will appear.



8

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

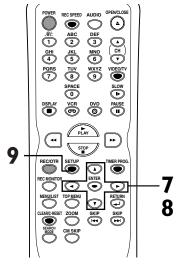
Part of a title will be deleted.



This operation may take a while to be completed.



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



Note

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

Putting names on titles



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

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

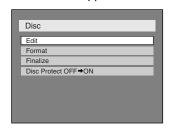
First: A





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

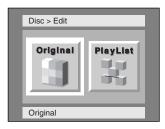
DISC menu will appear.

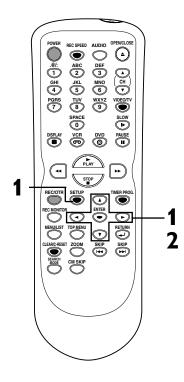


2

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

Original/PlayList menu will appear. Screen:



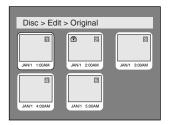


Editing DVD-RW discs in VR mode (Original) (cont'd)

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

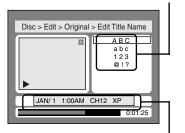
A window for entering a title name will appear.



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.

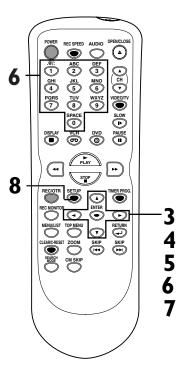
The name you entered will be activated for the title.



This operation may take a while to be completed.

8

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



[Guide to edit title name]

@!?

[Step2]: Press Number buttons following by the list

	DCIOTT.			
Select	ABC	abc	123	@!?
0	<space></space>	<space></space>	0	<space></space>
1	*	*	ı	!"#\$% &'()* +,/:; <=>? @[]^ _{ }
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 \bigcirc button, character set will be changed to the " @!? " mode automatically.

- To delete letters, press CLEAR/C-RESET button repeatedly. Holding CLEAR/C-CRESET 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 DVD-RW discs in VR mode (Original) (cont'd)

Editing

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.

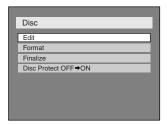
You can put a chapter marker anywhere you want.

When the number of chapter markers in the original list comes to 999 in total, you cannot add any more chapter markers.

First: 7

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

DISC menu will appear.



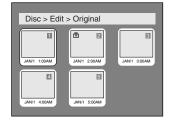
Select "Edit" using ▲ / ▼ buttons, then press ENTER button.

Original/PlayList menu will appear. Screen:



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.

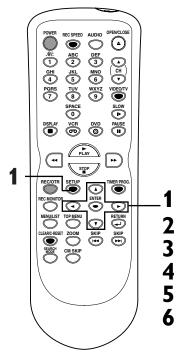


6

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

Option window will appear. <Add>:





Editing 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. <Add>:

A chapter marker will be added.



This operation may take a while to be completed.

<Delete>:

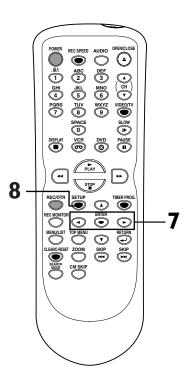
The chapter marker which you selected will be deleted.



This operation may take a while to be completed.



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.

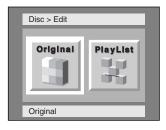
DISC menu will appear.

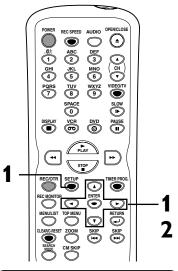


2

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

Original/PlayList menu will appear. Screen:





Note

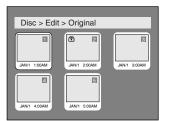
 If a selected picture for a thumbnail is deleted by deleting a part of a title, a default picture will be selected.

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.

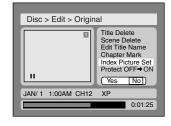
Original menu will appear.



5

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

Option window will appear.





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

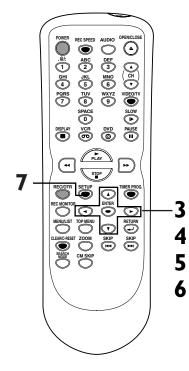
A picture for thumbnail will be set.



This operation may take a while to be completed.



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



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

Setting titles to protect

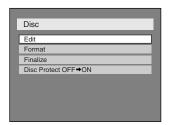


To prevent accidental editing or erasing the titles, you can protect them from the original menu.



1

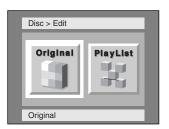
Press SETUP button. Select "DISC" using ◀/▶ buttons, then press ENTER button.
DISC menu will appear.



2

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

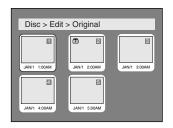
Original/PlayList menu will appear. Screen:



3

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

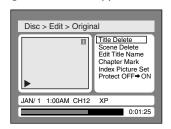
Original list will appear.





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

Original menu will appear.



5

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

Option window will appear.





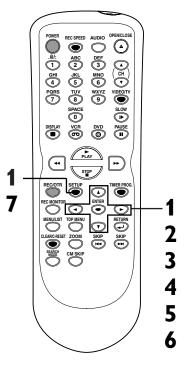
Select "Yes" using ◀/▶ buttons, then press ENTER button.



This operation may take a while to be completed.

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

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



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

Editing

Releasing titles from protecting



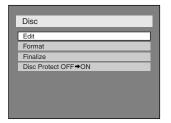
You are allowed to release the titles protecting feature once protected.

First:



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

DISC menu will appear.



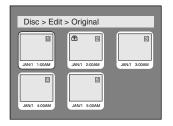
Select "Edit" using ▲ / ▼ buttons, then press ENTER button.

Original/PlayList menu will appear. Screen:



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

Original list will appear.



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

Original menu will appear.



"Protect ON \rightarrow OFF" is selected.

5

Press ENTER button.

Option window will appear.

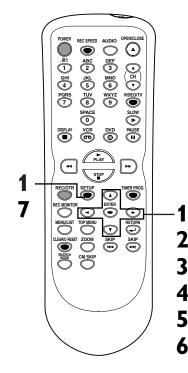


Select "Yes" using ◀ / ▶ buttons, then press ENTER button.



This operation may take a while to be completed.

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



Editing

Editing DVD-RW discs in VR mode (Playlist)

Deleting titles



In VR mode, even when a title is deleted from a Playlist, the original title will remain in an Original list. The disc space to record will not be increased.

First:

1

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

DISC menu will appear.

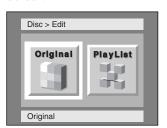


2

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

Original/PlayList menu will appear.

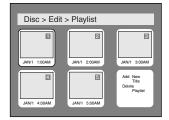
Screen:



3

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

Playlist will appear.



4

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

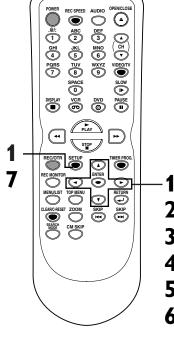
Playlist menu will appear.



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 while to be completed.

7

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

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

Editing

Deleting parts of titles



You can delete a specific part of a title.

Even when a title is deleted from the playlist, the original title will remain.

The disc space to record will not be increased.

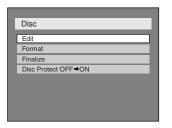
First:



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.



4

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

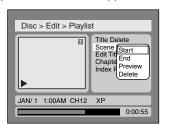
Playlist menu will appear.



5

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

Option window will appear.

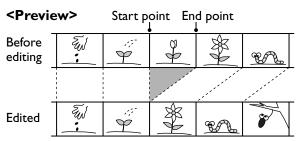




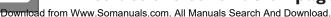
Press ENTER button to decide a start point, then press ENTER button to decide an end point.

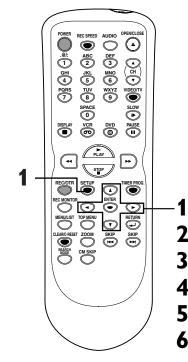
A cursor will move to "Preview". You can check a preview.





Instructions continue on page 76.





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.

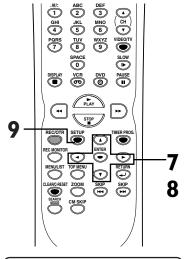
Part of a title will be deleted.



This operation may take a while to be completed.

9

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



Note

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

Putting names on titles



You can put names on the titles and change the 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.

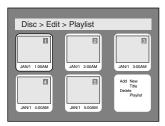
Original/PlayList menu will appear. Screen:

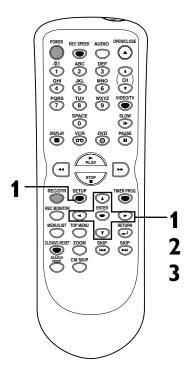


3

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

Playlist will appear.





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

Editing

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.

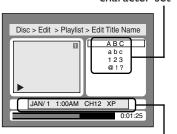
A window for entering a title name will appear.



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.

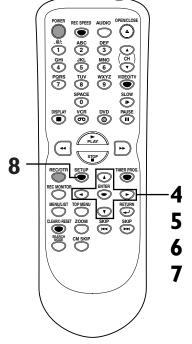
The name you entered will be activated for the title.



This operation may take a while to be completed.

8

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



[Guide to edit title name]

[Step2]: Press Number buttons following by the list

Select	ABC	abc	123	@!?
0	<space></space>	<space></space>	0	<space></space>
1	*	*	ı	!"#\$% &'()* +,/:; <=>! @[]^ _{ }
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-CRESET button to delete all letters.
- 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 (Playlist) (cont'd)

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 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.

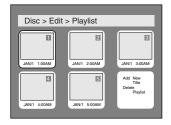
Original/PlayList menu will appear. Screen:



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.

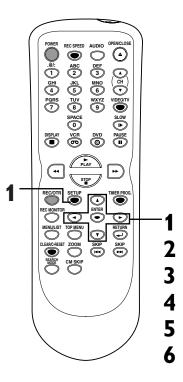


6

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

Option window will appear. <Add>:





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

Editing

<Delete>:



 You cannot delete the first chapter of each title.

7

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

<Add>:

A chapter marker will be added.



This operation may take a while to be completed.

<Delete>:

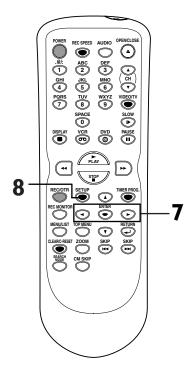
The chapter marker which you selected will be deleted.



This operation may take a while to be completed.

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

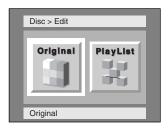
Press SETUP button. Select "DISC" using ◀/▶ buttons, then press ENTER button.
DISC menu will appear.

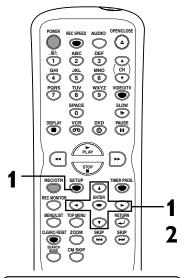


2

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

Original/PlayList menu will appear. Screen:





Note

 If a selected picture for a thumbnail is deleted by deleting a part of a title, a default picture will be selected.

Instructions continue on page 80.

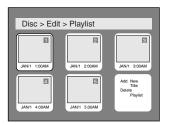
Editing

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.

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.



6

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

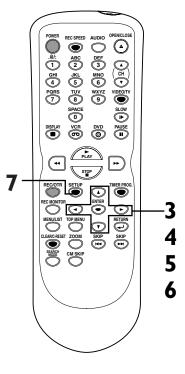
A picture for thumbnail will be set.



This operation may take a while to be completed.

7

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



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

Editing

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

You can add titles to a Playlist u to 99.

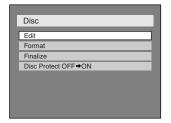
First: 🖟



1

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

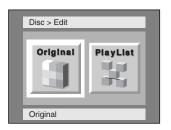
DISC menu will appear.



2

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

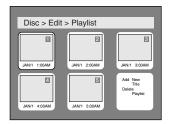
Original/PlayList menu will appear. Screen:



3

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

Playlist will appear.



4

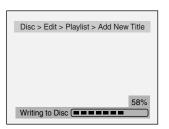
Select "Add New Title" using ▲ / ▼ / ◀ / ▶ buttons, then press ENTER button.

Original list will appear.



5

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



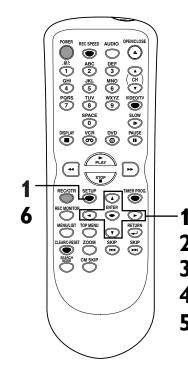




After writing to disc is completed, press SETUP button to exit DISC menu.

To delete a title from Playlist, refer to "Deleting titles" on page 74.

To delete a Playlist, refer to "Deleting a Playlist" on page 82.



Editing

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

Deleting a Playlist



A Playlist can be deleted if no longer needed.

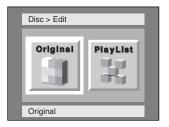


Press SETUP button. Select "DISC" using
✓ / ▶ buttons, then press ENTER button. DISC menu will appear.



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

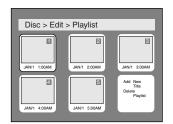
Original/PlayList menu will appear. Screen:



3

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

Playlist will appear.



4

Select "Delete Playlist" using $\blacktriangle / \blacktriangledown / \blacktriangleleft / \blacktriangleright$ buttons, then press ENTER button.

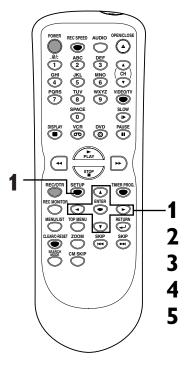
Option window will appear.



5

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

Playlist will be erased. After writing to disc is completed, the unit will be in stop mode.



Note

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

Editing DVD-R discs

Editing

Deleting titles



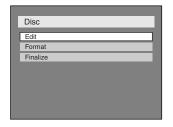
You can delete titles which you do not need, however the disc space to record on the disc will not be changed.

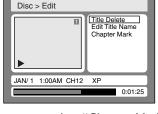
Be sure to know that the titles once deleted cannot be brought back to the disc.



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

DISC menu will appear.





You cannot select "Chapter Mark".

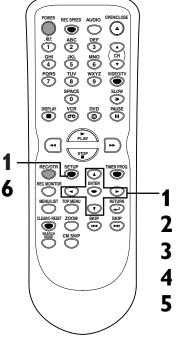
4

5

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

Option window will appear.

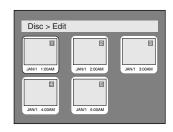




Select "Edit" using ▲ / ▼ buttons, then press ENTER but-

Titlelist will appear.

Screen:



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

Edit menu will appear.

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

Title will be deleted.



This operation may take a while to be completed.

6

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

Editing

Editing DVD-R discs (cont'd)

Putting names on titles



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

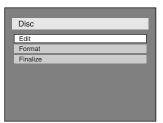
The names you put on the titles will be displayed on a titlelist.

First:

1

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

DISC menu will appear.

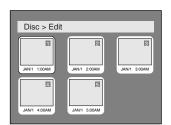


2

Select "Edit" using \blacktriangle / \blacktriangledown buttons, then press ENTER button.

Titlelist will appear.

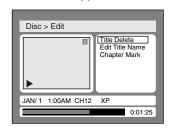
Screen:



3

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

Edit menu will appear.



You cannot select "Chapter Mark".

4

Select "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.

Character set

Disc > Edit > Edit Title Name

ABC
abc
123
@!?

JAN/1 1:00AM CH12 XP
0:01:25

area for entering title names

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

6

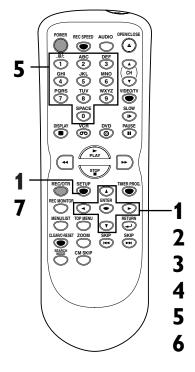
Select "Yes" using ◀/► buttons, then press ENTER button.



This operation may take a while to be completed.

7

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



[Guide to edit title name]

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

4 B C
a b c
1 2 3
@ !?

[Step2]: Press Number buttons following by the list

Select	ABC	abc	123	@!?
0	<space></space>	<space></space>	0	<space></space>
1	*	*	I	!"#\$% &'()* +,/:; <=>? @[]^ _{ }
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-CRESET button to delete all letters.
- To go on to the next entering area for letters, press ▶ button.
- You can enter up to 30 letters.

Tour of the SETUP menu

The following table is the contents which you can set and the default settings. Refer to the following table for useful operation.

SETUP menu	Items (highlight	is the default)	Contents
I.Language setting → Pages 86-87	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 88-89	OSD Background Transparency	100% : 35% 25%	Set the background transparency of OSD screen.
	OSD Background 1 2 3		Set the OSD screen color. I (Green), 2 (Blue), 3 (Red)
		Set the language for OSD (On Screen Display).	
	Screen Saver	OFF 5 minutes 10minutes	Set the time to work the screen saver on the screen.
3.Audio setting Pages 90-91	Digital Out	PCM Auto 48kHz 96kHz	Set whether the sound recorded in 96kHz will be down sampled in 48kHz.
		Dolby Digital PCM Stream	Set the type of sound signal which outputs from the digital audio output jack.
	Dynamic Range Control	ON OFF	Compressing the range of sound volume.
	Fast Forward with Audio	ON OFF	Outputting the sound during play in fast forward.
4.Parental setting → Pages 92-93	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.

Vote

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

Settings for Language

Press STOP button if you are playing a disc.

1

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

SETUP DISC

2

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

SETUP menu will appear.



3

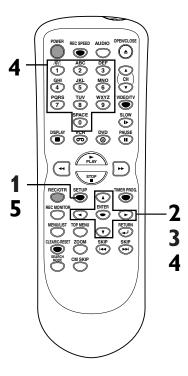
Select "Playback" using ▲ / ▼ / ▼ / ▶ buttons, then press ENTER button.

Option window will appear.





Select a desired item using \blacktriangle / \blacktriangledown buttons, then press ENTER button.



Note

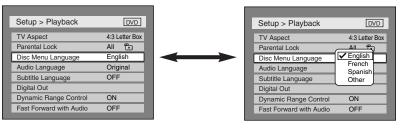
- Only the languages supported by the disc can be selected.
- Audio Language setting may not be available to some discs.
- You can change or switch off the subtitles on a DVD disc also from the disc menu if it is available.

Settings for Language (cont'd)

Changing the SETUP menu

Disc Menu Language (Default : English)

Set the language for Disc Menu.

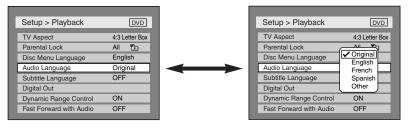


 Select a setting using ▲ / ▼ buttons, then press ENTER button.

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)

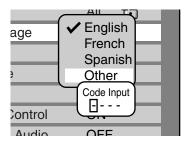
Set the subtitle language.



 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 101.

Press SETUP button to exit SETUP menu.

Settings for Display

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.

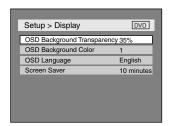
SETUP menu will appear.



3

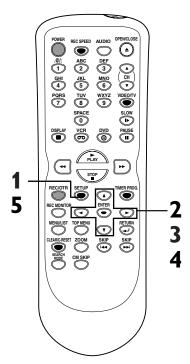
Select "Display" using $\triangle / \bigvee / \bigcirc / \triangleright$ buttons, then press ENTER button.

Option window will appear.



4

Select a desired item using \blacktriangle / \blacktriangledown buttons, then press ENTER button.

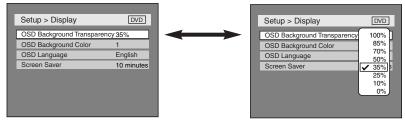


Changing the SETUP menu Settings for Display (cont'd)

OSD Background Transparency (Default: 35%)

Set the background transparency of OSD screen.

You can choose one among 0% through 100%.



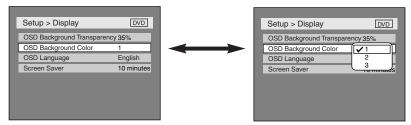
 Select a setting using ▲ / ▼ buttons, then press ENTER button.

Your setting will be activated.

OSD Background Color (Default : I Green)

Set the OSD screen color.

You can choose one among I (Green), 2(Blue), and 3(Red).

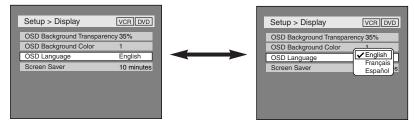


 Select a setting using ▲ / ▼ buttons, then press ENTER button.

Your setting will be activated.

OSD Language (Default : English)

Set the language for OSD.

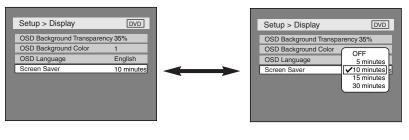


 Select a setting using ▲ / ▼ buttons, then press ENTER button.

Your setting will be activated.

Screen Saver (Default : 10 minutes)

Set the time to work the screen saver function on the screen.



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

Your setting will be activated.

5

Press SETUP button to exit SETUP menu.

Settings for Audio

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

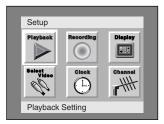
Press SETUP button to display SETUP/DISC menu. SETUP/DISC menu will appear.



2

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

SETUP menu will appear.



3

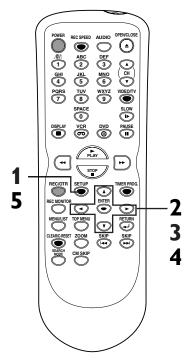
Select "Playback" using $\blacktriangle / \blacktriangledown / \blacktriangle / \blacktriangleright$ buttons, then press ENTER button.

Option window will appear.





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



Note

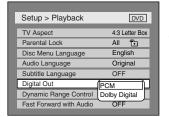
 Dynamic Range Control function is available only on the discs which are recorded in the Dolby Digital format.

Settings for Audio (cont'd)

Digital Out

Set the digital audio output.

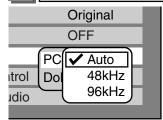




 Select a setting using ▲ / ▼ buttons, then press ENTER

Option window will appear. Proceed to steps A or B.

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/decoder is NOT com-

patible with 96kHz PCM, select "48kHz". 96kHz sound will be output in 48kHz.

: If your amplifier/decoder is compatible

with 96kHz PCM, select "96kHz". 96kHz sound will be output.

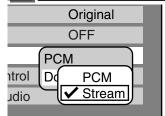
Note

When playing disc with copyright protection

- If you select "Auto", the sound will be down sampled at 48kHz.
- If you select "96kHz", no digital sound will be output. Select "Auto", so that outputting 48kHz digital sound.

Settings for Dolby Digital (Default: Stream)

96kHz



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

Your setting will be activated.

PCM : Convert the Dolby Digital into PCM

(2 channel).

When your amplifier/decoder is NOT compatible with Dolby Digital, set to "PCM".

Stream: Outputs Dolby Digital signals.

Setup > Playback

When your amplifier/decoder is compatible with Dolby Digital, set to "Stream".

DVD

DVD

Note

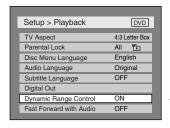
When playing a DVD-RW disc recorded in VR mode

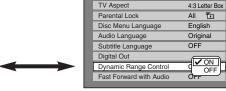
· If the audio source on a disc is Dolby Digital format, set "Dolby

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.

Dynamic Range Control (Default : ON)

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



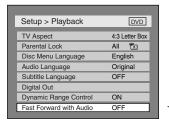


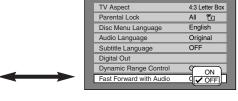
 Select a setting using ▲ / ▼ buttons, then press ENTER button.

Your setting will be activated.

Fast Forward with Audio (Default : OFF)

Set to ON to output the sound during playback in fast forward of x2.





Setup > Playback

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

Your setting will be activated.

Press SETUP button to exit SETUP menu.

Settings for Parental lock level

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

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.

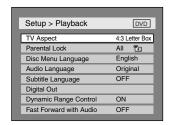
SETUP menu will appear.



3

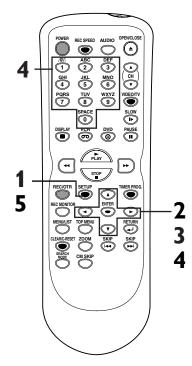
Select "Playback" using ▲ / ▼ / ▼ / ▶ buttons, then press ENTER button.

Option window will appear.



4

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



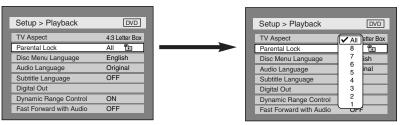
Note

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

Settings for Parental lock level (cont'd)

Parental Lock (Default : All)

Set the Parental Lock level.



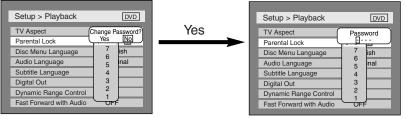
 Change the parental level using ▲ / ▼ buttons, then press ENTER button.

Option window will appear.

Proceed to steps A or B.



🔁 A password has not been set yet



Select "Yes" using ◀ / ►
buttons, then enter a new
password using Number
buttons.

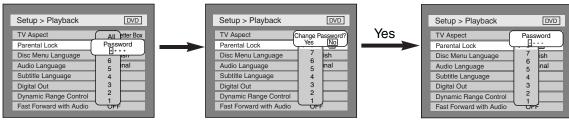
Your setting will be activated.

• If you select "No", proceed to Step 5.

В

A password has been set already

Change the password



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.

5

Press SETUP button to exit SETUP menu.

Note

- 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.

VCR functions

Playback



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 unit 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

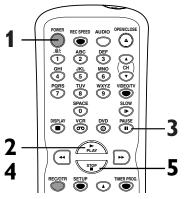
Press PLAY ▶ button to resume play.

5

Press STOP ■ button to stop playback.

6

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



Note

- 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 the 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 unit.
- 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:

_	0 1			
	Tape speed	Recording/Playback Time		
	Type of tape	T60	T120	T160
Γ	SP mode	Ihour	2hours	2-2/3hours
Γ	SLP mode	3hours	6hours	8hours

- Stereo or SAP is selected.
- Refer to page 34 for instructions on timer recording.

First.





Press REC/OTR button to begin the recording.

To temporarily stop recording or to resume it, press PAUSE **II** 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.

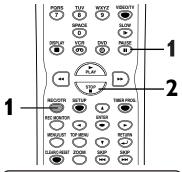
2

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

- To view one channel while recording another
 - I) 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 14.

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.







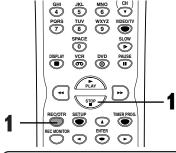
During normal recording, press REC/OTR button to begin one-touch timer recording.

You can select a fixed recording time 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

- 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.
- 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.

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:

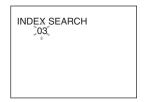




Press SEARCH MODE button twice so that the index search menu appears.

2

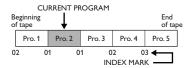
Enter the number of recordings you wish to skip using Number buttons with in 30 seconds.

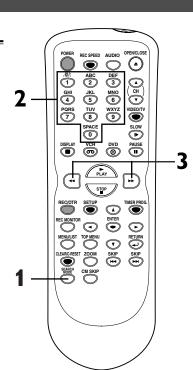


5

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

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

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.



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

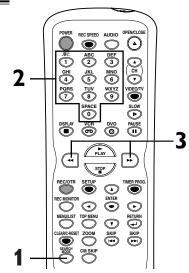


Enter your desired time to skip using Number buttons with in 30 seconds.



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

- · 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.

Other operations





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 II 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 \triangle/∇ or CH \triangle /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".

- 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.

Your Selection	Н	IFI	MONO
Type of recorded tape	L-channel	R-channel	WONO
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

Troubleshooting

Before requesting service for this unit, check the table below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.

Sympto	om	Remedy
Power		
	The power does not turn on.	Check that the AC power cord is connected securely.
Picture There is no picture.		 Re-connect the connecting cord securely. The connecting cords are damaged. The Setup Display appears. Press SETUP or RETURN button to turn off the display. Check the connection to your TV (page 13). 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 13. Switch the input selector on your TV (such as to "LINEI") so that the signal from this unit appears on the TV screen.
	Picture noise appears.	 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 (▲/▼) buttons on this unit or CH (▲/▼) buttons while you are playing a video tape.
	TV program reception does not fill the screen.	 Try to set the channels with "Auto Preset" in SETUP menu (page 18). Select a channel of any TV program using the CH ▲ / ▼ buttons. Press VIDEO/TV button if necessary.
	TV program pictures are distorted.	 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.	Switch the input to TV.Connect the antenna cable correctly (page 13).
	The playback picture or TV program from the equipment connected through the unit is distorted.	 If the playback picture output from a DVD player, VCR, or tuner goes through the unit before reaching your TV, the copy- protection signal applied to some programs could affect picture quality. Disconnect the playback equipment in question and connect it directly to your TV.
Sound	There is no sound.	 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 90-91).
	Sound is noisy.	 The disc is dirty or flawed. When playing a DTS-CD, noise may come from the speakers. This unit is not compatible with DTS-CD.
	No DTS sound is output	This unit is not compatible with DTS sound.

Troubleshooting (cont'd)

Symptom	Remedy
Symptom	Remedy
Playback The disc does not play.	 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 43). The region code on the DVD VIDEO does not match the unit (page 43). 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 41).
The disc does not start playback from the beginning.	 Resume play was activated (page 48). 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.	The DVD VIDEO features an auto playback function.
Some functions such as Stop, Search, or Slow-motion Play cannot be performed.	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.	 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.	 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.	 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 58). 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.	• Set the TV's input to "TV".
Recording does not start immediately after you press REC/OTR button.	 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.	 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 22-23). 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.	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.	 The timer setting overlapped with another setting that was set later or has priority (page 36). Disc space was not enough.
Timer recording is impossible.	Make sure indicator appears on the front display of this unit. If not, press POWER button.

Remedy

Troubleshooting (cont'd)

Remote control

Symptom

The remote control does not function.

- Batteries are weak.
- There are obstacles between the remote 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.
- Check if a cassette tape is in this unit.

Others

The unit does not operate properly.

 When static electricity, etc., causes the unit to operate abnormally, unplug the unit and then plug it in again.

The disc tray does not open when you press OPEN/CLOSE ≜ button.

- 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.



 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
Disc Error — 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 43.
Region Error — 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.
Parental Lock On — 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 92-93).
Recording Error This program is not allowed to be recorded.	The recording function encountered the copy prohibited program.	You cannot record copy prohibited programs.
Recording Error This program is not recordable in Video mode.	You are trying to record the copyonce program onto the DVD-RW disc in Video mode or the DVD-R disc.	Set "DVD-RW Recording Format" to "VR mode" (page 28).
Recording Error Can not record on this disc.	You are trying to record onto the disc which is unrecordable, or the disc status prevents recording.	Insert the recordable disc, and ensure the disc status is satisfies the recording requirements (pages 26-42).
Recording Error This program is not allowed to be recorded on this disc.	You are trying to record the copyonce program onto the DVD-RW disc which is not compatible with CPRM.	Insert the DVD-RW disc (ver.1.1 compatible with CPRM).
Recording Error 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 42).

Troubleshooting (cont'd)

Error message	Cause	Solution
Recording Error Disc is full. (No area for new recording)	You are trying to record onto the disc which has no space for recording.	Insert the recordable disc with enough recording space.
Recording Error You cannot record more than 99 titles on one disc. (The maximum is 99)	You are trying to record onto the disc on which the number of recording titles comes up to the maximum (99).	Delete unnecessary titles (pages 61, 65, 74).
Recording Error 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 69, 78).
Recording Error You cannot record on this disc as Control Information is full.	This disc has no space to write the Control Information when recording or deleting contents. When editing has been repeatedly	Delete unnecessary titles (pages 61, 65, 74).
	performed, the control Information area may come up to be full even the recording area has enough space.	
Recording Error You cannot record on the	This disc's working area for recording is full.	Insert a new disc.
disc as Power Calibration Area is full.	When recordings are performed repeatedly onto an unstable disc, this area may come up to be full.	
Recording Error This disc is already finalized.	You are trying to record onto the disc already finalized.	Release the finalizing for this disc (page 41).

^{*} If you are still having trouble with this unit after checking Troubleshooting, write down the error code and the error description for calling our help line mentioned on the front page to locate an Authorized service center.

RF converter output

You can watch the TV programs with 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 13.

1

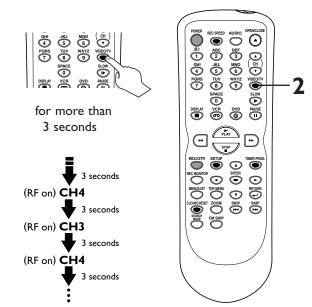
Select channel 3 on your TV.

• 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 unit to CH 4 by pressing VIDEO/TV button for 3 seconds. The RF output channel will alternate between CH3 and CH4 as follows.
- Changing the RF output channel is available only when the unit is in DVD mode.



Language code

Others

Language	Code
(Afan) Oromo	6159
Abkhazian	4748
Afar	4747
Afrikaans	4752
Albanian	6563
Amharic	4759
Arabic	4764
Armenian	5471
Assamese	4765
Aymara	4771
Azerbaijani	4772
Bashkir	4847
Basque	5167
Bengali;Bangla	4860
Bhutani	5072
Bihari	4854
Bislama	4855
Breton	4864
Bulgarian	4853
Burmese	5971
Byelorussian	485 I
Cambodian	5759
Catalan	4947
Chinese	7254
Corsican	4961
Croatian	5464
Czech	4965
Danish	5047
Dutch	6058
English	5160
Esperanto	5161
Estonian	5166
Faroese	5261
Fiji	5256
Finnish	5255
French	5264
Frisian	5271
Galician	5358
Georgian	5747
German	505 I
Greek	5158
Greenlandic	5758
Guarani	5360
Gujarati	5367
Hausa	5447
Hebrew	5569

Language	Code
Hindi	5455
Hungarian	5467
Icelandic	5565
Indonesian	5560
Interlingua	5547
Interlingue	555 I
Inupiak	5557
Irish	5347
Italian	5566
Japanese	5647
Javanese	5669
Kannada	5760
Kashmiri	5765
Kazakh	5757
Kinyarwanda	6469
Kirghiz	5771
Kirundi	6460
Korean	5761
Kurdish	5767
Laothian	5861
Latin	5847
Latvian; Lettish	5868
Lingala	5860
Lithuanian Macedonian	5866 5957
Malagasy	5953
Malay	5965
Malayalam	5958
Maltese	5966
Maori	5955
Marathi	5964
Moldavian	5961
Mongolian	5960
Nauru	6047
Nepali	605 I
Norwegian	606 I
Occitan	6149
Oriya	6164
Panjabi	6247
Pashto; Pushto	6265
Persian	5247
Polish	6258
Portuguese	6266
Quechua	6367
Rhaeto-Romance	6459
Romanian	6461

Language	Code
Russian	6467
Samoan	6559
Sangho	6553
Sanskrit	6547
Scots Gaelic	5350
Serbian	6564
Serbo-Croatian	6554
Sesotho	6566
Setswana	6660
Shona	6560
Sindhi	6550
Singhalese	6555
Siswat	6565
Slovak	6557
Slovenian	6558
Somali	6561
Spanish	5165
Sundanese	6567
Swahili	6569
Swedish	6568
Tagalog	6658
Tajik	6653
Tamil	6647
Tatar	6666
Telugu	6651
Thai	6654
Tibetan	4861
Tigrinya	6655
Tonga	6661
Tsonga	6665
Turkish	6664
Turkmen	6657
Twi	6669
Ukrainian	6757
Urdu	6764
Uzbek	6772
Vietnamese	6855
Volapuk	6861
Welsh	4971
Wolof	6961
Xhosa	7054
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Glossary

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 (525p/480p), you can experience higher-density picture than that in interlace (525i/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).

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 (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 (525p/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 (525i/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 as possible as it is.

SAP (Secondary Audio Program)

Sub-audio channel which is delivered separately from main-audio channel. This audio channel is used as an alternate in bilingual broadcasting.

S-Video output

It delivers independently each signal of color(C) and luminance(Y) to TV as video signals, so that higher-quality picture will be gained.

Title (DVD only)

A collection of chapters on DVD 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.

rs Españo

Specifications

Others

General	
System	DVD-Video, DVD-R/RW, CD-DA, 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 3/16" x 3 15/16" x 10 5/16" (435 x 100 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.

Español

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 I: Elija un tipo de disco

Hay varias 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.





Tipos de disco DVD

** Más adecuado ** Puede utilizar ** Algunas funciones son limitadas - : No puede utilizar (DVD-RW VR) (DVD-RW Video) Desea 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 Reproducir en otro equipo de DVD **☆☆***□ *** ***

etalles	(DVD-RW VR)	DVD-RW Video	DVD-R
abación			
¿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
ición			
Puede hacer funciones de edición básica	Sí	Sí	Sí
Puede hacer funciones de edición avanzadas (edición de lista a reproducir)	Sí	No	No

*I EI 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.

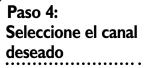
Formato del disco

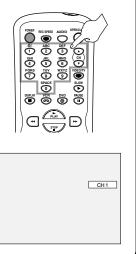
Coloque el disco en el grabador. Haga el formato del disco del menú SETUP, existen los formatos de video (modo de Video) o de grabación de video (modo VR) según el tipo de disco colocado. Esto es necesario para preparar el disco para grabación. Vea los detalles en las páginas 28-30.

* Al formatear, todo el contenido de ese disco se borrarán.

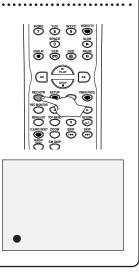
Fácil grabación de DVD (cont.)

Español

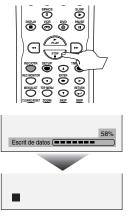




Paso 5: Grabe en discos DVD



Paso 6: Pare la grabación



Esta operación puede demorar en completarse.

Parada/inicio

Título 2

Capítulo I Capítulo 2

Título I

Capítulo 1 Capítulo 2 Capítulo 3

Sugerencia 1: Reproduzca el contenido grabado

Puede seleccionar el título que desea reproducir de un menú indica- Inicio de grab. do 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?

La 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 grábaciones en la lista á reproducir sin cambiar las grábaciones originales. Cualquier lista a reproducir no ocupa mucho espacio en el disco.

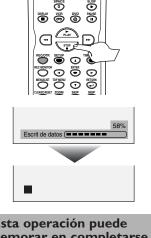
¿Qué significa "Original" o "Playlist"?

À lo largo de este manual encontrará Original y Playlist que se refieren a las grabaciones reales y la versión edi-

- 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.



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Español

Reproducción con videograbadora



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

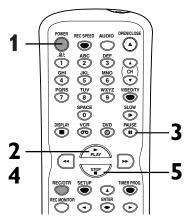
Presione el botón PLAY ▶ para continuar la reproducción.

5

Presione el botón STOP ■ para detener la reproducción.



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 CHAN-NEL ▲/▼ 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)

Español

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				
Tipo de cinta	T60	T120	T160		
Modo SP	I hora	2 horas	2-2/3 horas		
Modo SLP	3 horas	6 horas	8 horas		

• Se selecciona Estéreo o SAP.

Primero:





Presione el botón REC/OTR para empezar la grabación.

Para detener temporalmente la grabación o continuarla, presione el botón PAUSE II. 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.

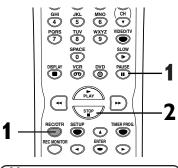


Presione el botón STOP cuando se complete la grabación.

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
 - Mientras está grabando en la unidad, presione el botón VIDEO/TV.
 - 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 14.

Grabación con temporizador de un toque (OTR)



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:





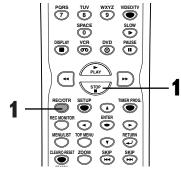
Durante la grabación normal, presione el botón REC/OTR para empezar la grabación con temporizador de un toque.

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 aparezcalo en la pantalla del televisor.
- No puede hacer una pausa en una OTR.
- 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.



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