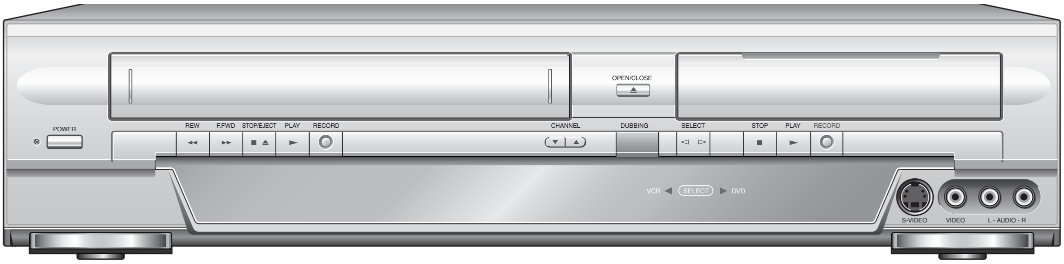
Symphonic

Owner's Manual

DVD Recorder with Video Cassette Recorder

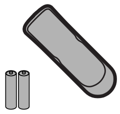
CWR20V4

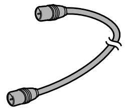

OPEN/CLOSE
POWER
REW
F.FWD
STOP/EJECT
PLAY
RECORD
CHANNEL
DUBBING
SELECT
STOP
PLAY
RECORD
VCR
SELECT
DVD
S-VIDEO
VIDEO
L - AUDIO - R

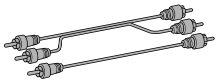
INSTRUCTIONS EN FRANÇAIS INCLUSES

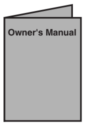
Supplied Accessory

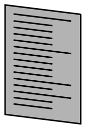
- Remote control (NB108UD) with two AA batteries
- RF cable (WPZ0901TM002)
- Audio/Video cables (WPZ0102TM015 or WPZ0102LTE01)
- Owner's Manual (1VMN20316)
- Quick Use Guide (1VMN20195)








Owner's Manual



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.)

Before you start

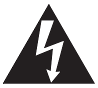
Precautions

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

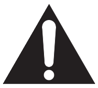
CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

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.

For Customer Use:

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

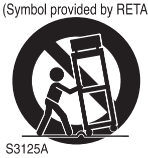
Model No. ________________________

Serial No. ________________________

Important Safeguards

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

PORTABLE CART WARNING
(Symbol provided by RETAC)

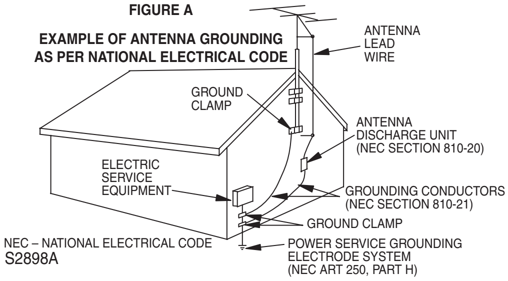


S3125A

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

FIGURE A

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE


ANTENNA LEAD WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMP
NEC – NATIONAL ELECTRICAL CODE
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)
S2898A

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

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.

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
DVD-V	Available to DVD Video discs
Video DVD-RW	Available to DVD-RW in Video mode
VR DVD-RW	Available to DVD-RW in VR mode
DVD-R	Available to DVD-R discs
CD	Available to Audio CDs
MP3	Available to CD-R/RW discs with MP3 files
VCR	Available to VHS tapes Use only cassettes marked VHS.
First: (Press:) DVD	Indicates that you need to select the DVD mode by pressing DVD button on the remote control before proceeding next step.
First: (Press:) VCR	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 97-99 before return the product.
- When this unit becomes inoperative, do not try to correct the problem by yourself. There are no user-serviceable parts inside. Turn off, unplug the power plug, and please call our help line mentioned on the front page to locate an Authorized Service Center.

CLEANING THE CABINET

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

CLEANING DISCS

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out. Do not wipe in a circular motion.
- Do not use solvents such as 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 GUIDE" in this Owner's Manual, the laser optical pickup unit may be dirty. Consult your dealer or an Authorized Service Center for inspection and cleaning of the laser optical pickup unit.

DISC HANDLING

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

AUTO HEAD CLEANING

- Automatically cleans video heads as you insert or remove a cassette, so you can see a 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.

1. Please visit your local Audio/Video store and purchase a good quality VHS Video Head Cleaner.
2. If a Video Head Cleaner does not solve the problem, please call our help line mentioned on the front page to locate an Authorized Service Center.

NOTES:

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

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Before you start

Features

Followings are what you can do 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 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:
Easily you can 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 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 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 Playlist variously as you prefer.
Putting names on titles.
Setting pictures for thumbnails.
Setting/clearing chapter markers.
Deleting parts of titles, etc.

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

Compatibility

DVD mode

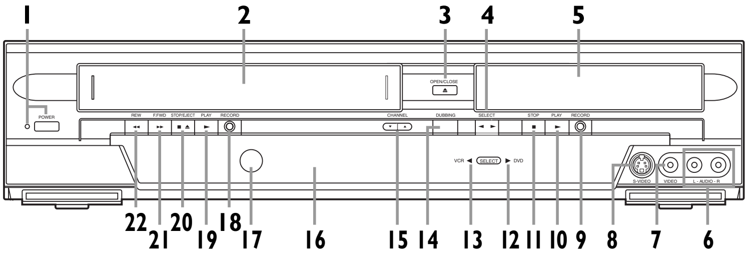
Available for playing discs recorded in Video mode on a regular DVD player (Video mode):
Discs recorded in the Video mode can be played on regular DVD players, including computer DVD drives compatible with DVD-Video playback*. You will need to finalize the discs recorded in Video mode to play in other 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.*

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

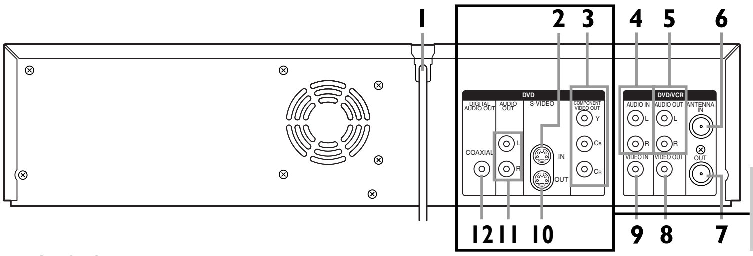
Functional overview

Front Panel



1. **POWER button / indicator (DVD/VCR)**
   Press to turn the unit on and off.
   If timer programmings have been set, press to set the unit in timer-standby mode. Press to cancel the timer standby mode, and turn the unit on.
   Lights up when power is on.
2. **Cassette compartment (VCR)**
   Insert a tape here.
3. **⏏ OPEN/CLOSE button (DVD)**
   Press to open or close the disc tray.
4. **SELECT button (DVD/VCR)**
   Press to select the component you wish to operate.
5. **Disc tray (DVD)**
   Place a disc when open.
6. **AUDIO (L/R) input jacks (LINE2) (DVD/VCR)**
   Use to connect external equipment with standard audio cables.
7. **VIDEO input jack (LINE2) (DVD/VCR)**
   Use to connect external equipment with a standard video cable.
8. **S-VIDEO input jack (LINE2) (DVD only)**
   Use to connect the S-Video output of external equipment with an S-Video cable.
9. **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 cancel 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. **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 cancel 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



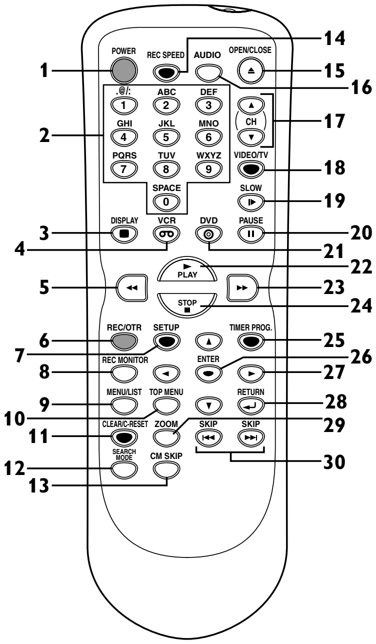
- These jacks are useful only in DVD mode.

1. **AC Power Cord (DVD/VCR)**
   Connect to a standard AC outlet to supply power to this unit.
2. **S-VIDEO IN jack (LINE1) (DVD only)**
   Use to connect the S-Video output of external equipment with an S-Video cable.
3. **COMPONENT VIDEO OUT jacks (DVD only)**
   Use to connect a TV monitor with component video inputs with component video cables.
4. **AUDIO IN (L/R) jacks (LINE1) (DVD/VCR)**
   Use to connect external equipment with standard audio cables.
5. **AUDIO OUT (L/R) jacks (DVD/VCR)**
   Use to connect a TV monitor, AV receiver or other equipment with standard audio cables.
6. **TV ANTENNA IN jack (DVD/VCR)**
   Use to connect an antenna.
7. **TV ANTENNA OUT jack (DVD/VCR)**
   Use to connect an antenna cable to pass the signal from the TV ANTENNA IN to your TV monitor.
8. **VIDEO OUT jack (DVD/VCR)**
   Use to connect a TV monitor, AV receiver or other equipment with a standard video cable.
9. **VIDEO IN jack (LINE1) (DVD/VCR)**
   Use to connect external equipment with a standard video cable.
10. **S-VIDEO OUT jack (DVD only)**
    Use to connect the S-Video input of a TV monitor, AV receiver or other equipment with an S-Video cable.
11. **AUDIO OUT jacks (DVD only)**
    Use to connect a TV monitor, AV receiver or other equipment with standard audio cables.
12. **DIGITAL AUDIO OUT (COAXIAL) jack (DVD only)**
    Use to connect an AV receiver, Dolby Digital decorder or other equipment with a coaxial digital input jack 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.

Functional overview (cont'd)

Remote Control



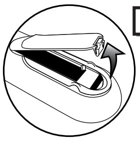
1. **POWER button (DVD/VCR)**
   Press to turn the unit on and off. If timer programmings have been set, press to set the unit in timer-standby mode. Press to cancel the timer standby mode, and turn the unit on.
2. **Number buttons (DVD/VCR)**
   Press to select channel numbers. Press to select a title/chapter/track on display or a TV channel.
   Or press to enter values for the settings in the SETUP menu.
3. **DISPLAY button (DVD/VCR)**
   Press to display or change the on-screen display.
4. **VCR button**
   Press to activate the remote control in VCR mode. (Refer to page 9.)
   Press to select the VCR output mode.
5. **◀◀ button (DVD/VCR)**
   - DVD mode
     During playback, press to play fast reverse.
     Or during playback is paused, press to play slow reverse.
   - VCR mode
     Press to rewind the tape, or to view the picture rapidly in reverse during the playback mode.
6. **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.
8. **REC MONITOR button (DVD)**
   Press to check the video to be recorded before attempting.
9. **MENU/LIST button (DVD)**
   Press to display the Disc menu. To change ORIGINAL and PLAYLIST on the TV screen. (VR mode only)
10. **TOP MENU button (DVD)**
    Press to display the top menu.
11. **CLEAR/C-RESET button (DVD/VCR)**
    - DVD mode
      Press to clear the password once entered or to cancel the programming for CD or 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)**
    To call up the index or time search menu.
13. **CM SKIP button (DVD)**
    During playback, press to skip the 30 seconds.
14. **REC SPEED button (DVD/VCR)**
    Press to switch the recording speed.
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, 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 during playback is paused, press to play slow forward.
    - VCR mode
      Press to rapidly advance the tape, or view the picture rapidly in forward during playback.
24. **STOP ■ button (DVD/VCR)**
    Press to stop playback or recording.
25. **TIMER PROG. button (DVD/VCR)**
    Press to display the timer program setting menu.
26. **ENTER button (DVD/VCR)**
    Press to confirm or select menu items.
27. **▲ / ▼ / ◀ / ▶ buttons (DVD/VCR)**
    Press to select items or settings.
28. **RETURN ↵ button (DVD/VCR)**
    Press to return to the previously displayed menu screen.
29. **ZOOM button (DVD)**
    During playback, press to enlarge the picture on the screen.
30. **SKIP ⏮ button (DVD)**
    During playback, press to skip to the previous chapter or track.
    Or during playback is paused, press to play reverse step by step.
    SKIP ⏭ button (DVD)
    During playback, press to skip to the next chapter or track.
    Or during playback is paused, press to play forward step by step.

Functional overview (cont'd)

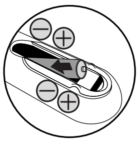
Installing batteries in the remote control

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

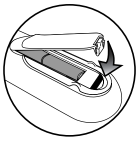
1



2



3



Note

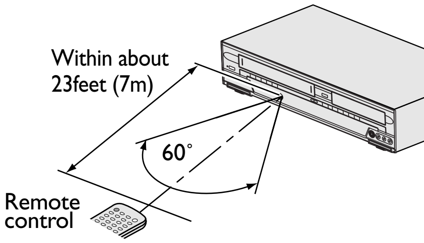
Incorrect use of batteries can result in hazards such as leakage and bursting. Please observe the following:

- Do not mix new and old batteries together.
- Do not use different kinds of battery 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's 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

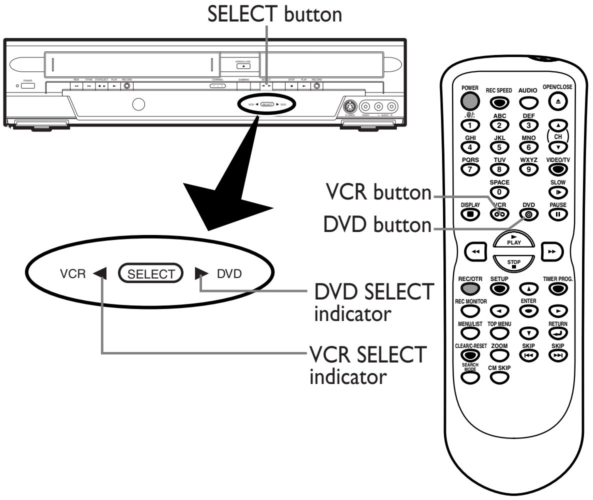
Because this product is a combination of a VCR and a DVD recorder, you must select first which component you wish to operate with the SELECT button.

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 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)

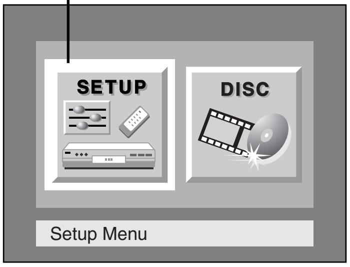
Guide to On Screen Menu

The unit uses the following types of display for most operations. SETUP/DISC/CD menu, Title list, and DISPLAY, 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.

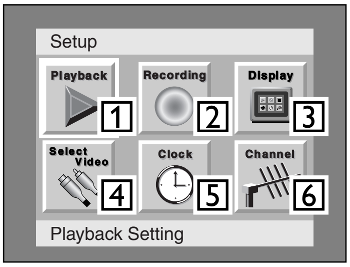
SETUP/DISC/CD menu

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.
These provides entries to all main functions of the unit.

"SETUP" is available only in the Stop mode.


SETUP
DISC
Setup Menu

▼


Setup
Playback
Recording
Display
Select Video
Clock
Channel
1
2
3
4
5
6
Playback Setting

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.

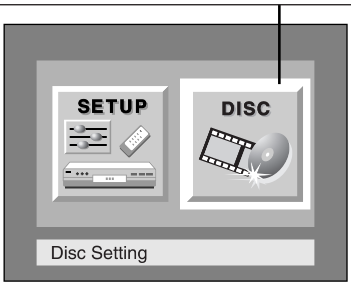
3. Display:
To set up the OSD screen as you prefer.

4. Select Video:
To choose a line input to record to DVD discs from other video equipment.

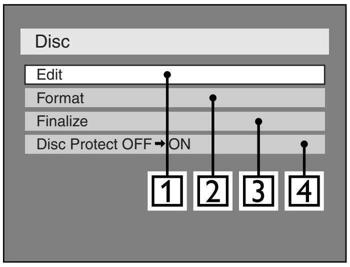
5. Clock:
To set up the clock of the unit as you need.

6. Channel:
To make the channel setting of the unit as you prefer.

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


SETUP
DISC
Disc Setting

▼


Disc
Edit
Format
Finalize
Disc Protect OFF→ON
1
2
3
4

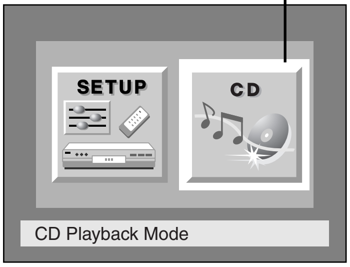
1. Edit:
Turns on a title list, (when a disc with VR mode is inserted, 'Original' or 'PlayList' is available), which shows the recorded titles on the disc.

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

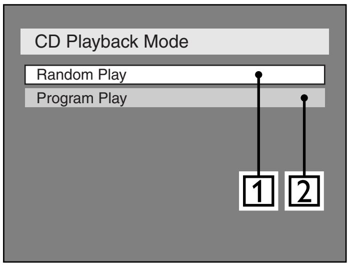
3. Finalize:
Allows you to finalize a disc recorded titles.

4. Disc Protect (VR mode only) :
Allows you to protect a disc from accidental editing or recording.

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


SETUP
CD
CD Playback Mode

▼


CD Playback Mode
Random Play
Program Play
1
2

1. Random Play:
To set the random play programming.

2. Program Play(Audio CD only):
To set the program playing.

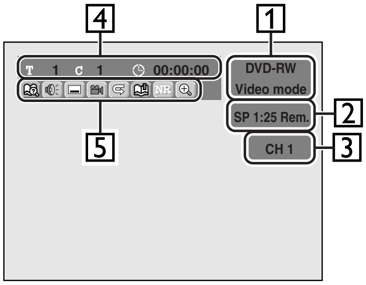
DISPLAY menu

DVD mode

First:

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

Details are on page 41.



1. Indicates a disc type and a format mode.

Note:

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

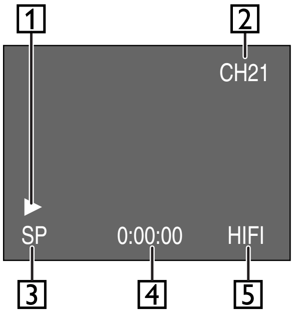
2. Indicates a recording mode and possible recording time left.
3. Indicates a current channel number.
4. Indicates a title number, chapter number, and the time elapsed of disc play.
5. Each icon means:

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

VCR mode

First:

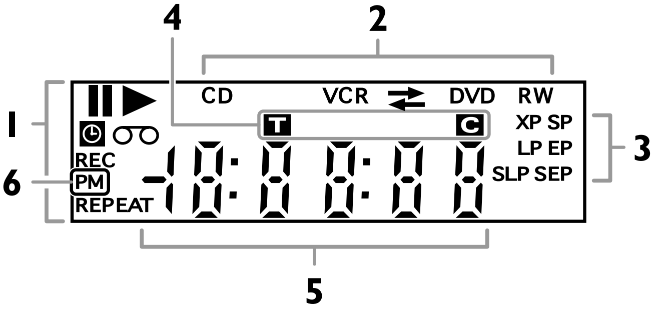
Press DISPLAY button to call up the display menu.



1. Playback status of the current tape.
2. 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.

○○ : 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 stand-by 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 the timer recording stand-by mode.

VCR→DVD : Appears during VCR to DVD duplication process.

VCR←DVD : Appears during DVD to VCR duplication process.

3. Recording speed

Indicates the recording speed of the disc.

4. Title/Track and Chapter mark

T : Appears when indicating a title/track number.

C : Appears when indicating a chapter number.

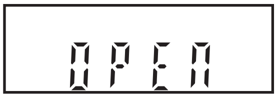
5. Displays the following

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

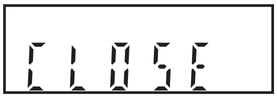
6. PM : Appears in the afternoon with the clock displaying.

Display message

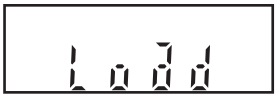
1



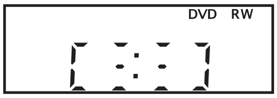
2



3



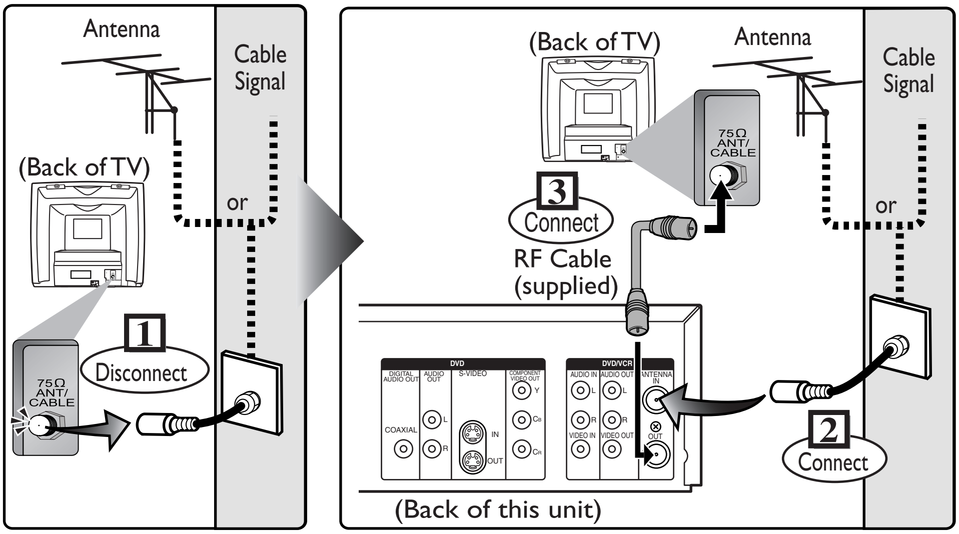
4



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.

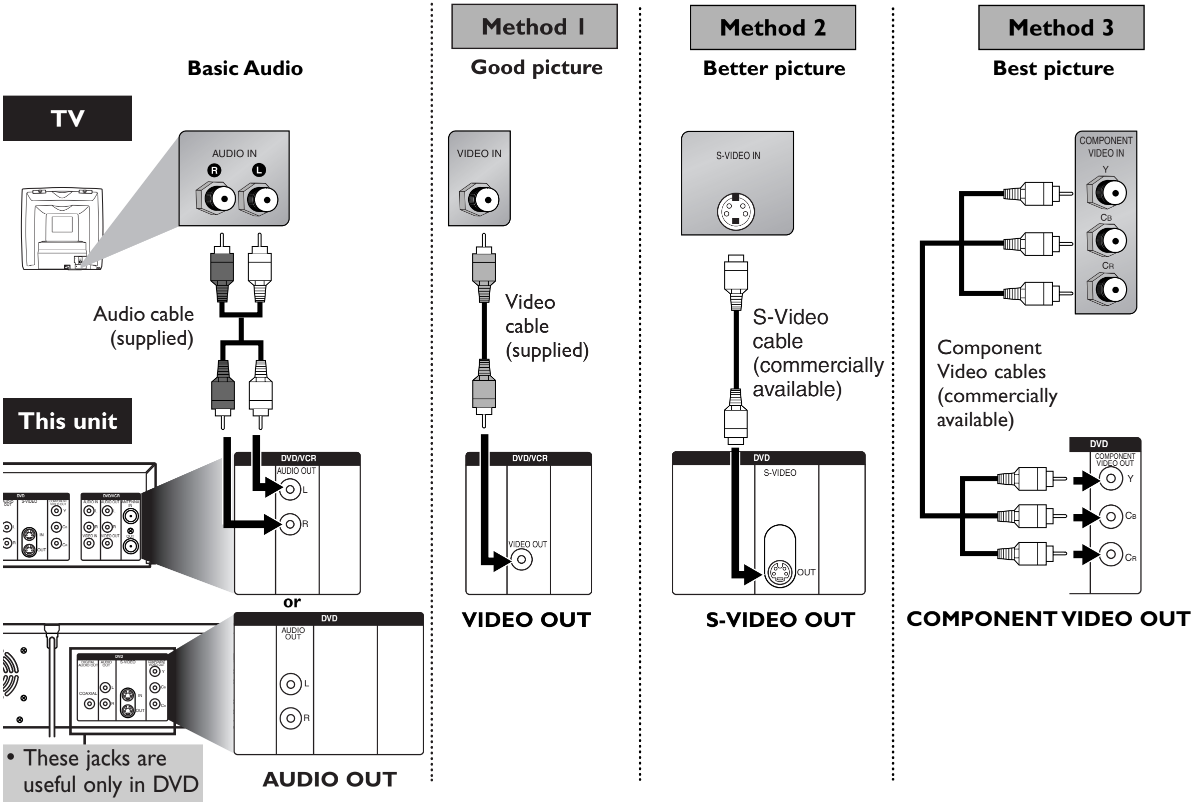
Connections

Connection to a TV


Antenna
Cable Signal
or
(Back of TV)
75Ω ANT/ CABLE
1
Disconnect
(Back of TV)
Antenna
Cable Signal
75Ω ANT/ CABLE
3
Connect
RF Cable (supplied)
or
DVD
DIGITAL AUDIO OUT
AUDIO OUT
S-VIDEO
COMPONENT VIDEO OUT
COAXIAL
L
R
IN
OUT
Y
CB
CR
DVD/VCR
AUDIO IN
AUDIO OUT
ANTENNA IN
VIDEO IN
VIDEO OUT
OUT
2
Connect
(Back of this unit)

4 Plug in the AC power cord of this unit.

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


Basic Audio
Method 1
Good picture
Method 2
Better picture
Method 3
Best picture
TV
AUDIO IN
R
L
Audio cable (supplied)
VIDEO IN
Video cable (supplied)
S-VIDEO IN
S-Video cable (commercially available)
COMPONENT VIDEO IN
Y
CB
CR
Component Video cables (commercially available)
This unit
DVD/VCR
AUDIO OUT
L
R
or
DVD
AUDIO OUT
L
R
AUDIO OUT
DVD/VCR
VIDEO OUT
VIDEO OUT
DVD
S-VIDEO
OUT
S-VIDEO OUT
DVD
COMPONENT VIDEO OUT
Y
CB
CR
COMPONENT VIDEO OUT

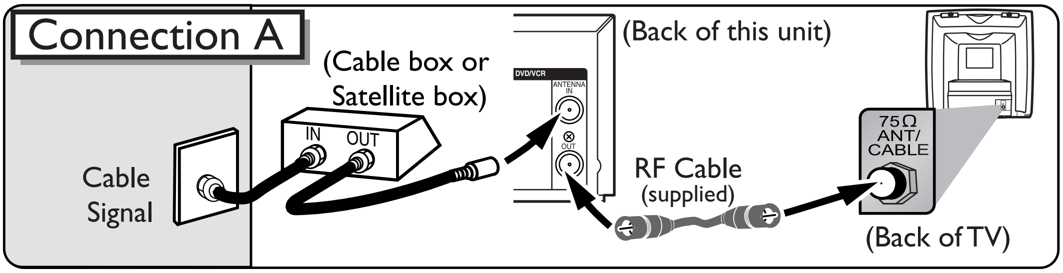
- These jacks are useful only in DVD mode.

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.**

Connections

Connection to a cable box or satellite box


Connection A
(Cable box or Satellite box)
(Back of this unit)
DVD/VCR
ANTENNA IN
OUT
IN
OUT
Cable Signal
RF Cable
(supplied)
75Ω ANT/ CABLE
(Back of TV)

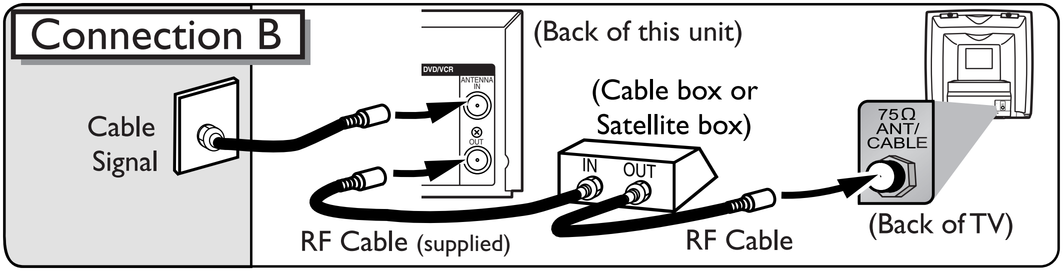
Select this connection when you want to view or record a scrambled channel. With this connection, channels cannot be changed on this unit. You can view or record ONLY the channels you have selected on the cable box or the satellite box.

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

To select channels of the cable box or satellite box

1) 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 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.


Connection B
(Back of this unit)
DVD/VCR
ANTENNA IN
OUT
Cable Signal
(Cable box or Satellite box)
IN
OUT
75Ω ANT/ CABLE
(Back of TV)
RF Cable (supplied)
RF Cable

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 the 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.

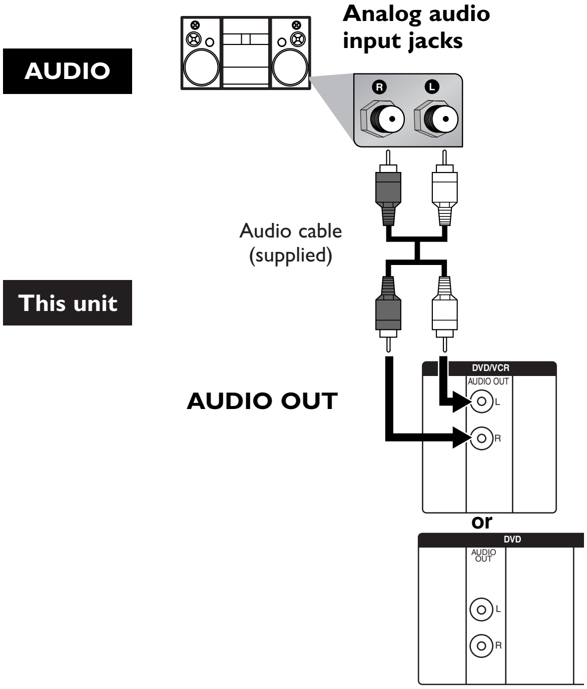
Note to the Cable TV System Installer :
This reminder is provided to call the Cable TV system installer's attention to Article 820-40 of the National Electrical Code, which provides guidelines for proper grounding - in particular, specifying that the cable ground shall be connected to the grounding system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

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 1

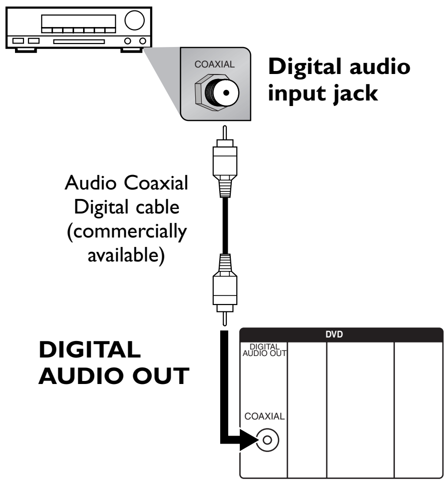
Stereo system


AUDIO
Analog audio input jacks
R
L
Audio cable (supplied)
This unit
AUDIO OUT
DVD/VCR
AUDIO OUT
L
R
or
DVD
AUDIO OUT
L
R

(usefull only in DVD mode)

Method 2

Dolby Digital decoder, MD deck or DAT deck


COAXIAL
Digital audio input jack
Audio Coaxial Digital cable (commercially available)
DIGITAL AUDIO OUT
DVD
DIGITAL AUDIO OUT
COAXIAL

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.

(or)

* 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.

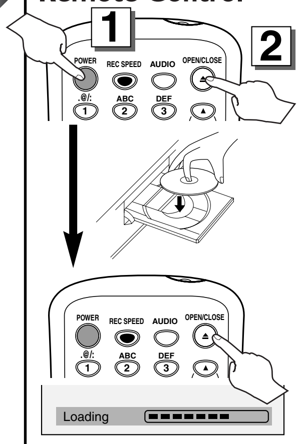
Step 2: Insert a blank disc

1 Turn on the unit

2 Open the disc tray

3 Close the disc tray

Remote Control

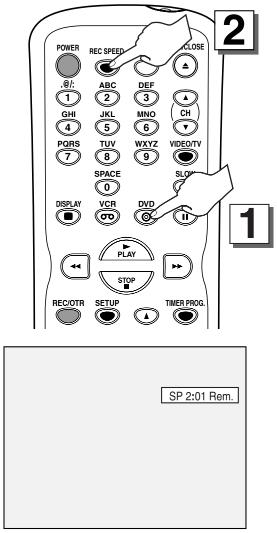


This operation may take a while to be recognized.

Step 3: Select the Recording speed

1 To select the DVD mode

2 To select the recording speed



DVD disc types

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

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

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

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

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

Format the disc

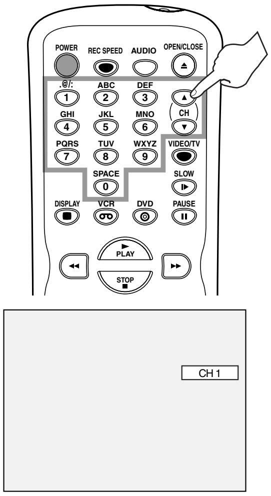
Insert the disc in the unit. Then, format the disc from SETUP menu. Video format (Video mode) or Video recording format (VR mode) will be available depending on the disc type inserted.

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

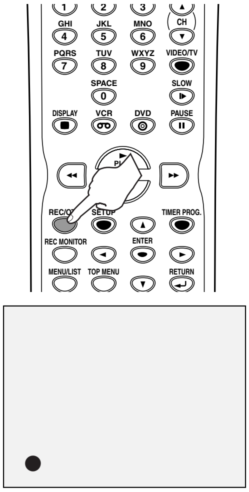
* When you format, the entire contents on that disc will be erased.

Easy DVD recording (Cont'd)

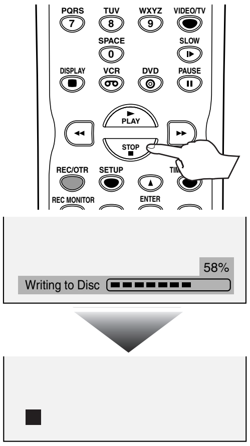
Step 4: Select the desired channel



Step 5: Record to DVD discs



Step 6: Stop the Record



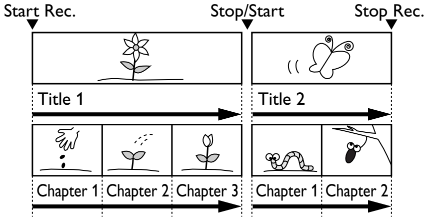
This operation may take a while to be completed.

Hint 1: 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 simple really 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.



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 (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. Any 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 permit 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.

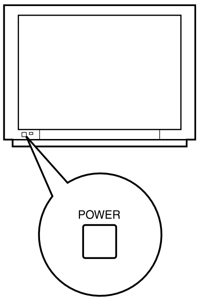
Getting channels automatically

1

Press POWER button to turn on the unit.

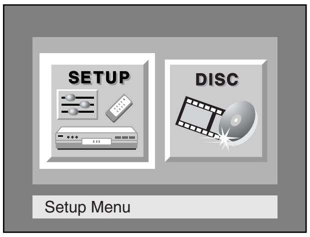
2

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



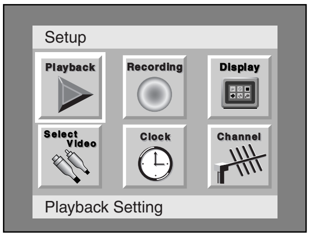
3

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


SETUP
DISC
Setup Menu

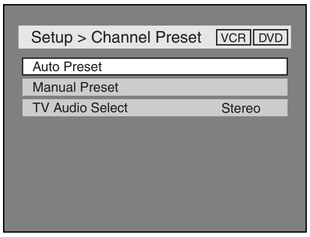
4

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


Setup
Playback
Recording
Display
Select Video
Clock
Channel
Playback Setting

5

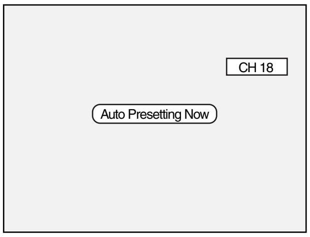
Select "Channel" using ▲ / ▼ / ◀ / ▶ buttons, then press ENTER button.
Channel Preset menu will appear.


Setup > Channel Preset
VCR
DVD
Auto Preset
Manual Preset

TV Audio Select Stereo

6

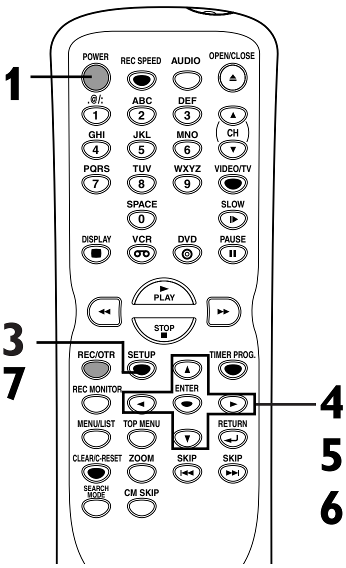
Select "Auto Preset" using ▲ / ▼ buttons, then press ENTER button.
The unit will start getting channels available in your area.


CH 18
Auto Presetting Now

7

Press SETUP button to exit.

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


1
3
7
4
5
6
POWER
REC SPEED
AUDIO
OPEN/CLOSE
CH
VIDEO/TV
SPACE
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP

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.

Channel setting (cont'd)

Adding/deleting channels

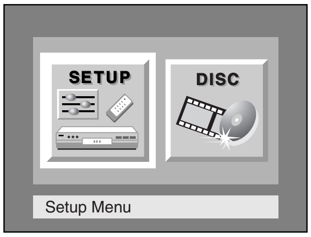
The channels you no longer receive or seldom watch can be deleted from the memory. You also may add channels into memory.

1

Press SETUP button to display SETUP/DISC menu.

SETUP/DISC menu will appear.

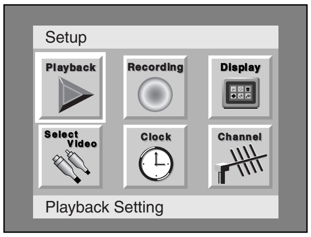
Screen:


SETUP
DISC
Setup Menu

2

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

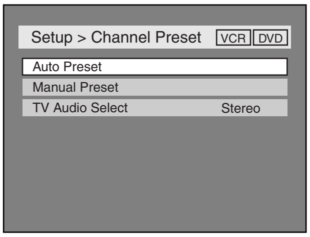
SETUP menu will appear.


Setup
Playback
Recording
Display
Select Video
Clock
Channel
Playback Setting

3

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

Channel Preset menu will appear.



Setup > Channel Preset VCR DVD

Auto Preset

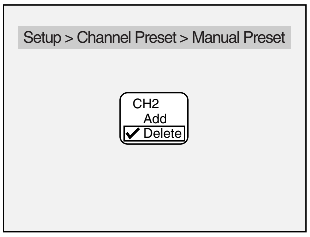
Manual Preset

TV Audio Select Stereo

4

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

Manual Preset menu will appear.



Setup > Channel Preset > Manual Preset

CH2

Add

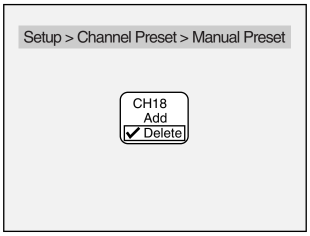
✓ Delete

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.



Setup > Channel Preset > Manual Preset

CH18

Add

✓ Delete

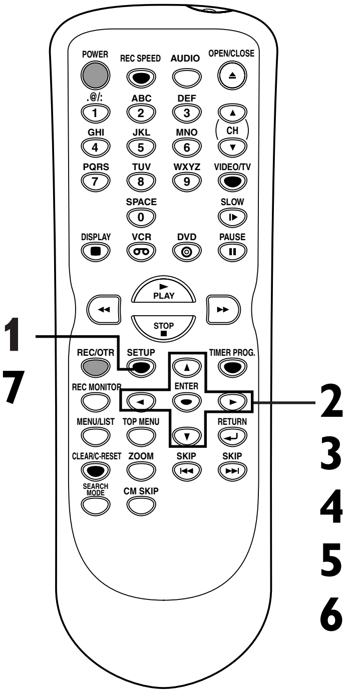
6

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

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

7

Press SETUP button to exit.


POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/: 1
ABC 2
DEF 3
GHI 4
JKL 5
MNO 6
CH
PQRS 7
TUV 8
WXYZ 9
VIDEO/TV
SPACE 0
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
1
7
2
3
4
5
6

Selecting the TV stereo or SAP

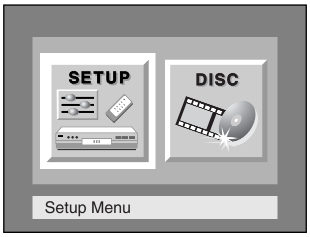
You can select a sound channel to output from TV. "Stereo" has been selected as the default.

1

Press SETUP button to display SETUP/DISC menu.

SETUP/DISC menu will appear.

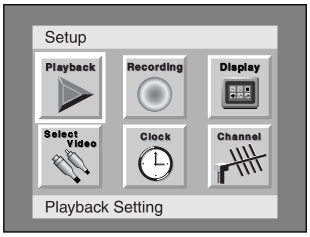
Screen:


SETUP
DISC
Setup Menu

2

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

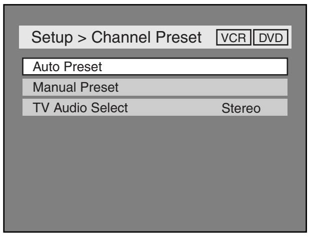
SETUP menu will appear.


Setup
Playback
Recording
Display
Select Video
Clock
Channel
Playback Setting

3

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

Channel Preset menu will appear.

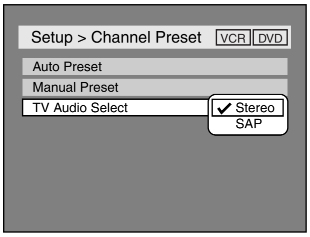

Setup > Channel Preset VCR DVD
Auto Preset
Manual Preset

TV Audio Select Stereo

4

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

Option window will appear.


Setup > Channel Preset VCR DVD
Auto Preset
Manual Preset
TV Audio Select

✓ Stereo
SAP

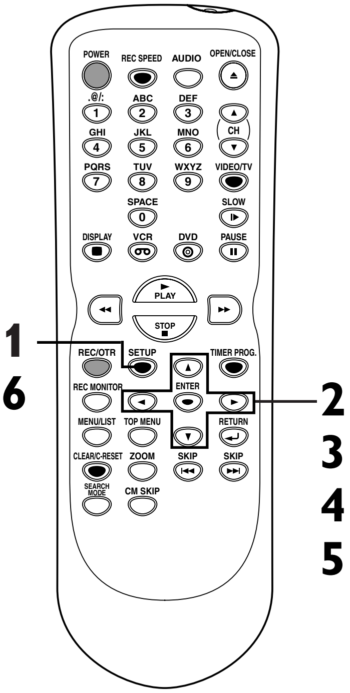
5

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.

6

Press SETUP button to exit.


1
6
2
3
4
5
POWER
REC SPEED
AUDIO
OPEN/CLOSE
SETUP
ENTER
PLAY
STOP

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.

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

- 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

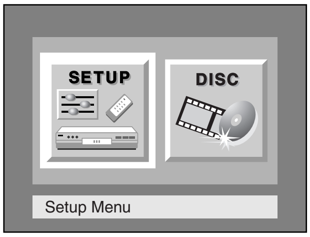
- The antenna/cable TV connections are correct.
- If this unit is connected to a Cable Box or Satellite Box, select the local PBS station on them to set the clock automatically.

1

Press SETUP button to display SETUP/DISC menu.

SETUP/DISC menu will appear.

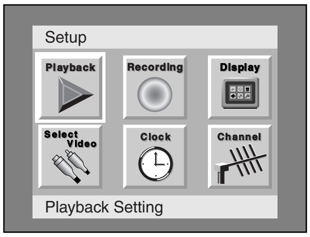
Screen:


SETUP
DISC
Setup Menu

2

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

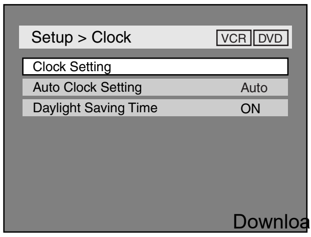
SETUP menu will appear.


Setup
Playback
Recording
Display
Select Video
Clock
Channel
Playback Setting

3

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

Clock menu will appear.


Setup > Clock
VCR
DVD
Clock Setting

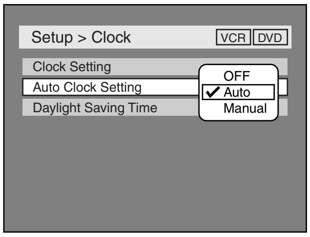
Auto Clock Setting Auto

Daylight Saving Time ON

4

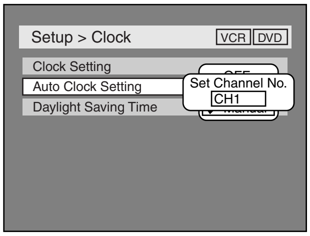
Select "Auto Clock Setting" using ▲ / ▼ buttons, then press ENTER button.

Option window will appear.


Setup > Clock
VCR
DVD
Clock Setting
Auto Clock Setting
Daylight Saving Time
OFF
✓ Auto
Manual

5

- **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.**


Setup > Clock
VCR
DVD
Clock Setting
Auto Clock Setting
Daylight Saving Time
Set Channel No.

CH1

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

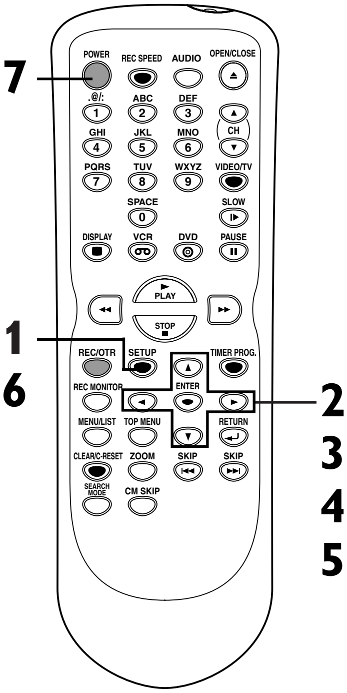
6

Press SETUP button to exit.

7

Press POWER button to turn off the unit.

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


7
1
6
2
3
4
5
POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/:
ABC
DEF
1
2
3
CH
GHI
JKL
MNO
4
5
6
PQRS
TUV
WXYZ
VIDEO/TV
7
8
9
SPACE
SLOW
0
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP

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)

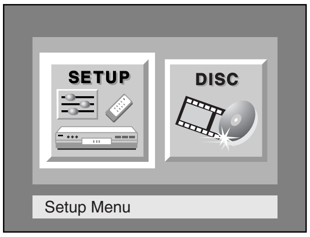
Manual Clock Setting

1

Press SETUP button to display SETUP/DISC menu.

SETUP/DISC menu will appear.

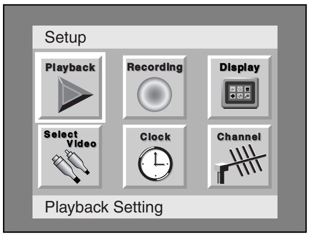
Screen:


SETUP
DISC
Setup Menu

2

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

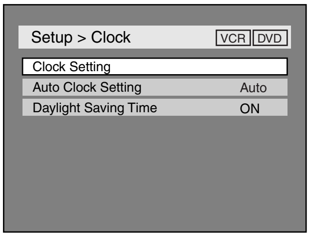
SETUP menu will appear.


Setup
Playback
Recording
Display
Select Video
Clock
Channel
Playback Setting

3

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

Clock menu will appear.

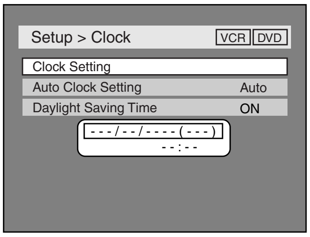

Setup > Clock
VCR DVD

Clock Setting
Auto Clock Setting Auto
Daylight Saving Time ON

4

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

A clock setting window will appear.


Setup > Clock
VCR DVD

Clock Setting
Auto Clock Setting Auto
Daylight Saving Time ON
---/--/----(---)
--:--

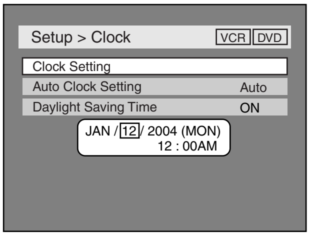
Press ENTER button again.

Default date will appear.

5

Enter the date (month / day / year) using ▲ / ▼ buttons.

Press ◄ / ► buttons to move the cursor.

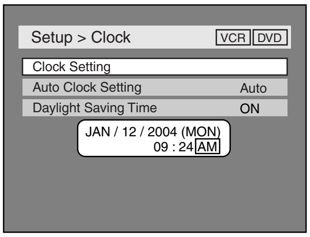

Setup > Clock
VCR DVD

Clock Setting
Auto Clock Setting Auto
Daylight Saving Time ON
JAN / 12 / 2004 (MON)
12 : 00AM

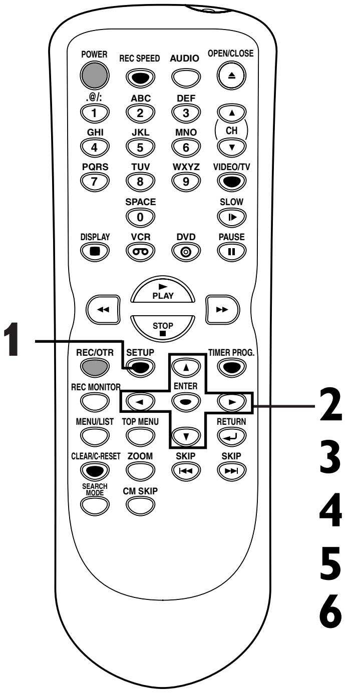
6

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

Press ◄ / ► buttons to move the cursor.


Setup > Clock
VCR DVD

Clock Setting
Auto Clock Setting Auto
Daylight Saving Time ON
JAN / 12 / 2004 (MON)
09 : 24 AM


POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/:
ABC
DEF
GHI
JKL
MNO
CH
PQRS
TUV
WXYZ
VIDEO/TV
SPACE
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
1
2
3
4
5
6

Note

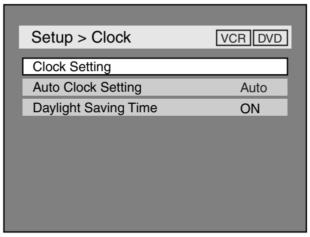
- Your clock setting will be lost if either there is a power failure or this unit has been unplugged for more than 30 seconds when you set the clock manually.

Clock setting (cont'd)

7

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

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

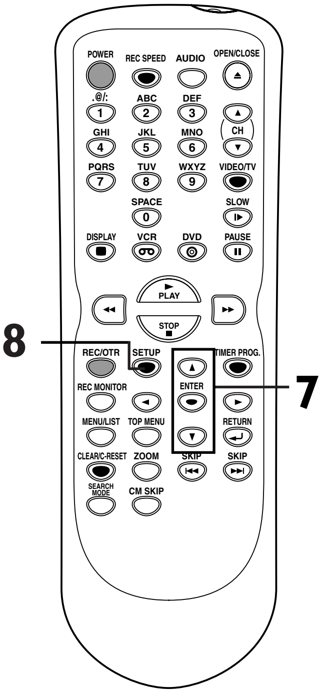


Setup > Clock VCR DVD
Clock Setting
Auto Clock Setting Auto
Daylight Saving Time ON

8

Press SETUP button to exit.

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


POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/: 1
ABC 2
DEF 3
GHI 4
JKL 5
MNO 6
CH
PQRS 7
TUV 8
WXYZ 9
VIDEO/TV
SPACE 0
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
8
REC/OTR
SETUP
TIMER PROG.
7
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP

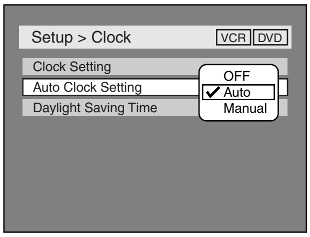
When "Auto Clock Setting" is selected to "Auto" or "Manual", change it to "OFF" as following steps.

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

4

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

Option window will appear.



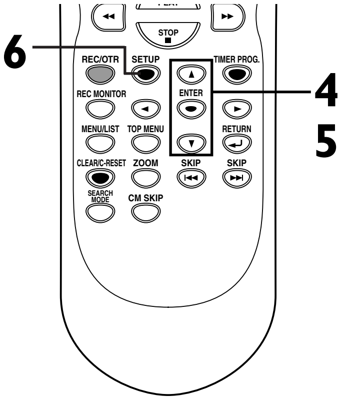
Setup > Clock VCR DVD
Clock Setting
Auto Clock Setting
Daylight Saving Time
OFF
✓ Auto
Manual

5

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

6

Press SETUP button to exit.


STOP
6
REC/OTR
SETUP
TIMER PROG.
4
5
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP

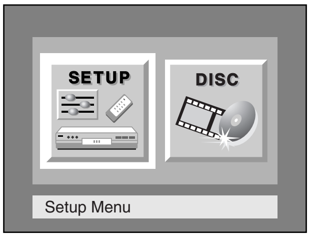
Clock setting (cont'd)

Setting the daylight saving time

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

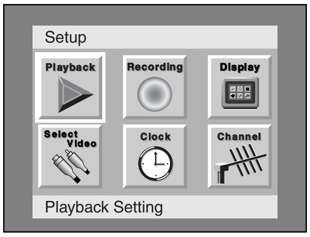
1

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


SETUP
DISC
Setup Menu

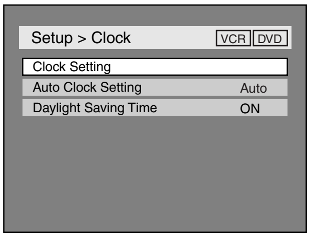
2

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


Setup
Playback
Recording
Display
Select Video
Clock
Channel
Playback Setting

3

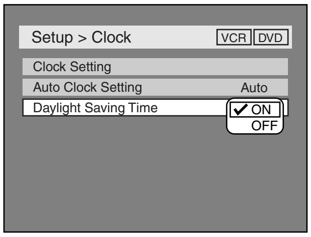
Select "Clock" using ▲ / ▼ / ◀ / ▶ buttons, then press ENTER button.
Clock menu will appear.


Setup > Clock
VCR DVD

Clock Setting
Auto Clock Setting Auto
Daylight Saving Time ON

4

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


Setup > Clock
VCR DVD

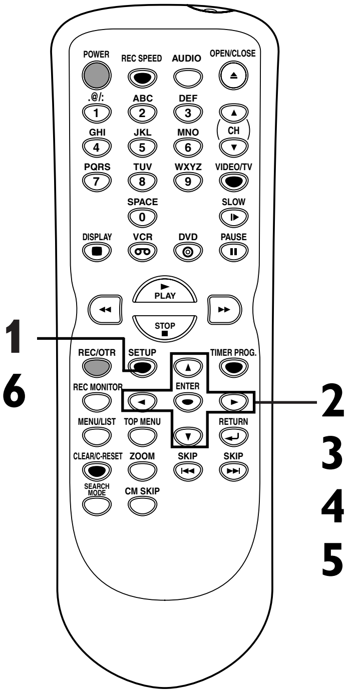
Clock Setting
Auto Clock Setting Auto
Daylight Saving Time ✓ ON
OFF

5

Select "ON" or "OFF" using ▲ / ▼ buttons, then press ENTER button.
Choose "ON" when currently observing the daylight saving time.

6

Press SETUP button to exit.

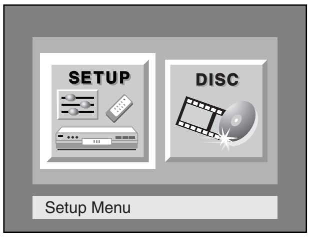

POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/:
ABC
DEF
GHI
JKL
MNO
CH
PQRS
TUV
WXYZ
VIDEO/TV
SPACE
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
1
6
2
3
4
5

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.

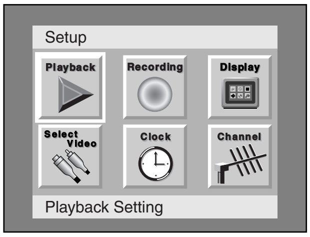
1

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


SETUP
DISC
Setup Menu

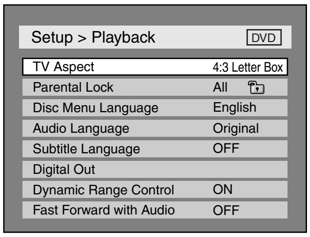
2

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


Setup
Playback
Recording
Display
Select Video
Clock
Channel
Playback Setting

3

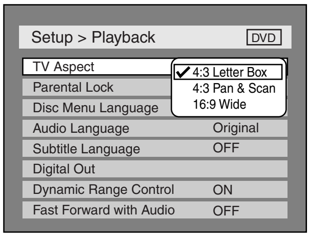
Select “Playback” using ▲ / ▼ / ◀ / ▶ buttons, then press ENTER button.
Playback menu will appear.



Setup > Playback DVD
TV Aspect 4:3 Letter Box
Parental Lock All
Disc Menu Language English
Audio Language Original
Subtitle Language OFF
Digital Out
Dynamic Range Control ON
Fast Forward with Audio OFF

4

Select “TV Aspect” using ▲ / ▼ buttons, then press ENTER button.
Option window will appear.



Setup > Playback DVD
TV Aspect
✓ 4:3 Letter Box
4:3 Pan & Scan
16:9 Wide
Parental Lock
Disc Menu Language
Audio Language Original
Subtitle Language OFF
Digital Out
Dynamic Range Control ON
Fast Forward with Audio OFF

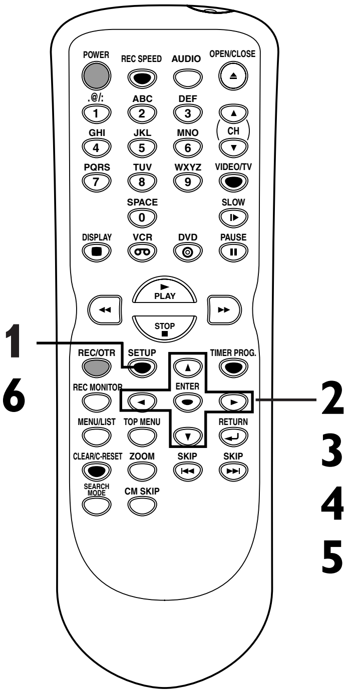
Refer to the Note on this page.

5

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

6

Press SETUP button to exit.


POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/:
ABC
DEF
1
2
3
GHI
JKL
MNO
CH
4
5
6
PQRS
TUV
WXYZ
VIDEO/TV
7
8
9
SPACE
SLOW
0
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
1
6
2
3
4
5

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

This unit cannot record on the following discs.
- DVD-R General Ver 2.0/8x
- DVD-RW Ver 1.2/2-4x CPRM compatible

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). Unless 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 RW COMPATIBLE are capable of playing DVD-RW recorded in VR mode.

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

Recording speed

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

Recording speed	Recording time *	Video/Sound Quality
XP (1H)	60 min	☆☆☆☆☆☆
SP (2H)	120 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.
* The audio and video quality is getting poorer as the recording time becomes longer.

Restrictions on recording

You cannot record copy-protected video using this unit. Copy-protected video includes DVD-Video discs and some satellite broadcasts.
If copy-protected material is encountered during a recording, recording 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.

Information on DVD recording (cont'd)

Information on copy control

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

Disc type / format		Copy-free	Copy-once	Copy-prohibited
VR DVD-RW	ver.1.1	☆	—	—
	ver.1.1 CPRM compatible	☆	☆	—
Video DVD-RW	ver.1.1	☆	—	—
	ver.1.1 CPRM compatible	☆	—	—
DVD-R	ver.2.0	☆	—	—

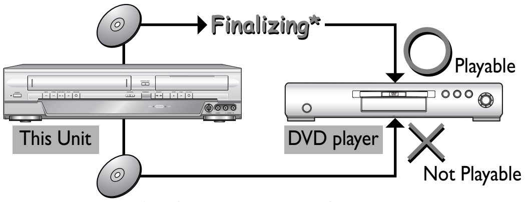
☆ Recordable
— Not Recordable

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 or dirty or if there is dirt or condensation on the unit's lens.
- If you record a disc using a personal computer, even if it is recorded in a compatible format, there are cases in which it may not play because of the settings of the application software used to create the disc. (Check with the software publisher for more detailed information.)
- Discs recorded in Video mode on this unit cannot record additionally using other DVD recorders.

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 44.)



* 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

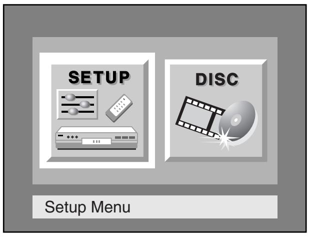
Settings for the recording format to a blank disc

Video DVD-RW VR DVD-RW

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.

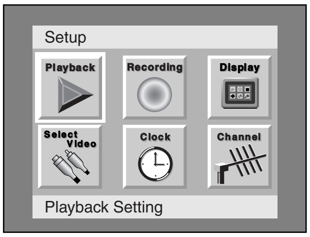
1

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


SETUP
DISC
Setup Menu

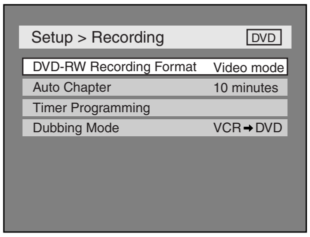
2

Select SETUP using ◄ / ► buttons, then press ENTER button.
SETUP menu will appear.


Setup
Playback
Recording
Display
Select Video
Clock
Channel
Playback Setting

3

Select “Recording” using ▲ / ▼ / ◄ / ► buttons, then press ENTER button.
Recording menu will appear.

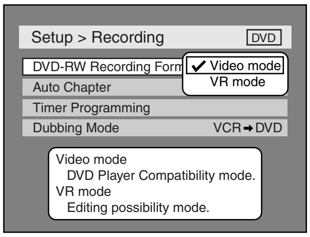


Setup > Recording DVD

DVD-RW Recording Format	Video mode
Auto Chapter	10 minutes
Timer Programming	
Dubbing Mode	VCR→DVD

4

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



Setup > Recording DVD

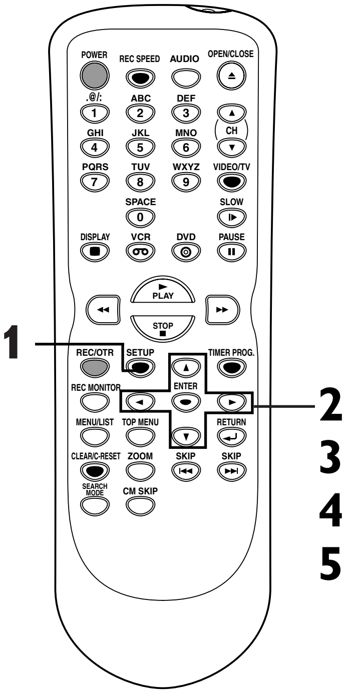
DVD-RW Recording Form ✓ Video mode / VR mode
Auto Chapter
Timer Programming
Dubbing Mode VCR→DVD

Video mode
DVD Player Compatibility mode.
VR mode
Editing possibility mode.

Video mode has been selected as the default.

5

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


POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/:
ABC
DEF
GHI
JKL
MNO
CH
PQRS
TUV
WXYZ
VIDEO/TV
SPACE
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
1
2
3
4
5

Note

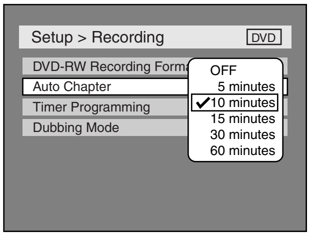
- The recording format setting is effective only for DVD-RW discs. You cannot change the recording format on a DVD-R disc. DVD-R discs will always be in Video mode.
- **You cannot mix two formats on one DVD-RW disc. When you load a disc once recording before, the recording format cannot be changed even 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.

Formatting a disc (cont'd)

6

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

Option window will appear.



Setup > Recording DVD

DVD-RW Recording Format

Auto Chapter

Timer Programming

Dubbing Mode

OFF

5 minutes

✓10 minutes

15 minutes

30 minutes

60 minutes

"10 minutes" has been selected as the default.

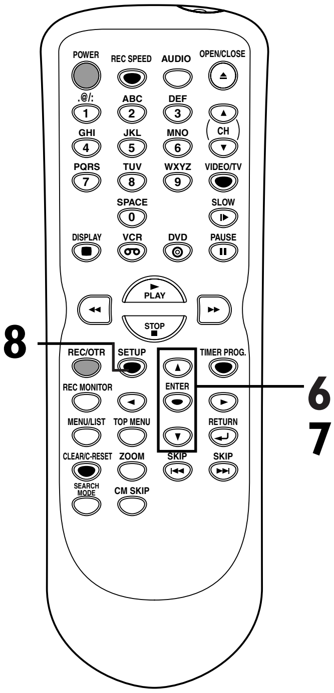
7

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

Chapter marks will be put as you specified.

8

Press SETUP button to exit SETUP menu.


POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/: 1
ABC 2
DEF 3
CH
GHI 4
JKL 5
MNO 6
PQRS 7
TUV 8
WXYZ 9
VIDEO/TV
SPACE 0
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
8
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
6
7
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP

Note

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

Formatting a disc (cont'd)

Reformatting a disc

Video DVD-RW VR DVD-RW

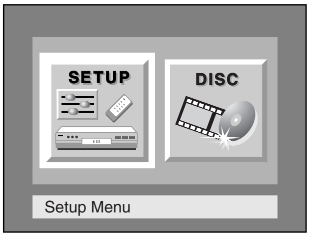
If you are using a DVD-RW disc, by default it will be Video mode. You can change this to VR mode from SETUP menu.

1

Press SETUP button to display SETUP/DISC menu.

SETUP/DISC menu will appear.

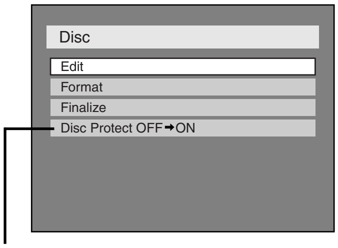
Screen:


SETUP
DISC
Setup Menu

2

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

DISC menu will appear.

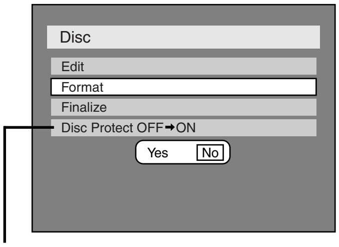

Disc
Edit
Format
Finalize
Disc Protect OFF➔ON

*VR mode only

3

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

Option window will appear.

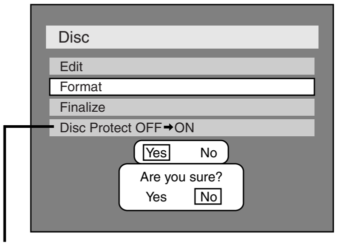

Disc
Edit
Format
Finalize
Disc Protect OFF➔ON
Yes
No

*VR mode only

4

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

Option window will appear.

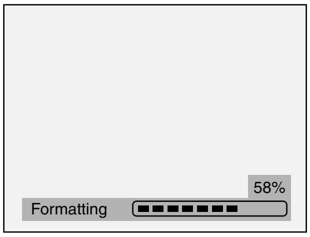

Disc
Edit
Format
Finalize
Disc Protect OFF➔ON
Yes
No
Are you sure?
Yes
No

*VR mode only

5

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

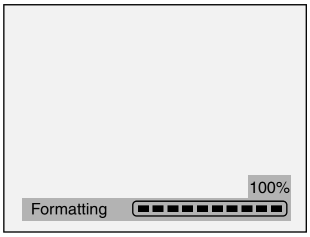
Formatting will start.


58%
Formatting

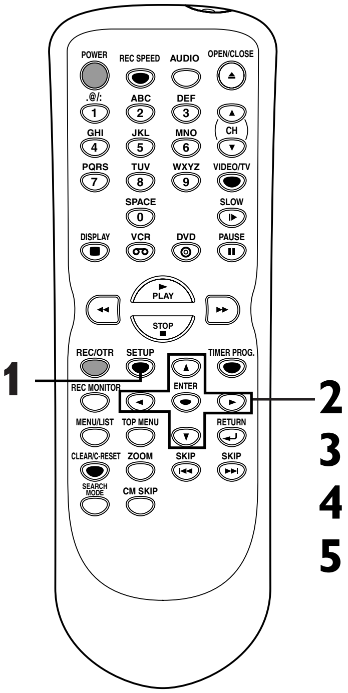
6

Formatting is complete.

100% will be indicated.


100%
Formatting

This operation may take a while to be completed.


POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/: 1
ABC 2
DEF 3
CH
GHI 4
JKL 5
MNO 6
PQRS 7
TUV 8
WXYZ 9
VIDEO/TV
SPACE 0
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
1
2
3
4
5

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

DVD-R | Video DVD-RW | VR DVD-RW

Follow the steps below to record TV programs.

First: DVD

1

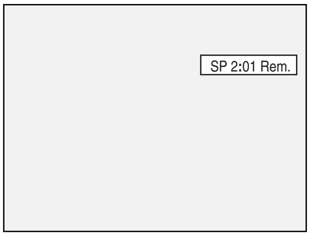
Turn on the unit and load a recordable disc.

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

This operation may take a while to be recognized.

2

Select a recording speed using REC SPEED button.



Refer to “Recording speed” on page 26.

3

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:

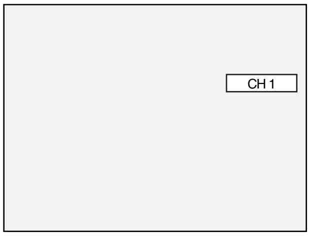
You can choose Video mode or VR mode from SETUP menu. “Video mode” has been selected as the default. Refer to “Settings for the recording format to a blank disc” on pages 28-29.

When a DVD-R disc is loaded:

DVD-R discs will always be in Video mode.

4

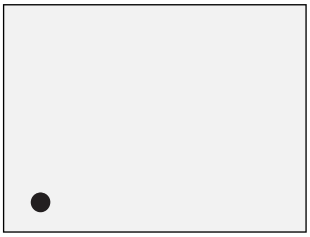
Select a desired channel to record using CH ▲ / ▼ buttons or number buttons.



5

Press REC/OTR button to start recording.

● mark will be displayed for 5 seconds.

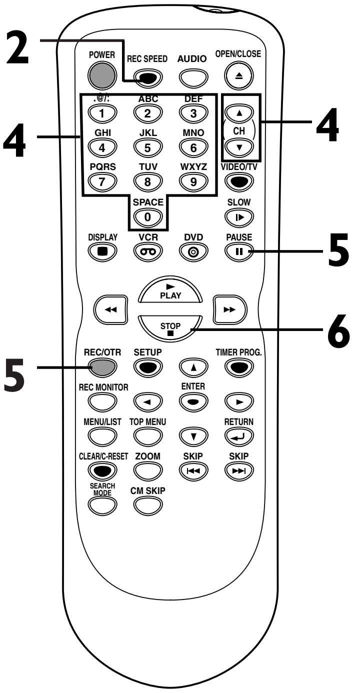


To pause the recording, press PAUSE ❚❚ button. Press REC/OTR button or PAUSE ❚❚ button to restart the recording.

6

Press STOP ■ button to stop the recording.

This operation may take a while to be completed.


2
4
4
5
5
6
POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/:
ABC
DEF
GHI
JKL
MNO
PQRS
TUV
WXYZ
CH
VIDEO/TV
SPACE
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP

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.
- **You cannot mix two formats on one DVD-RW disc. When you load a disc once recorded before, the recording format cannot be changed even if you change it in SETUP menu.**
- You cannot change the recording speed during the REC pause mode.
- You can change a channel during the REC pause mode.

Basic recording (cont'd)

Checking the recording picture quality

DVD-R Video DVD-RW VR DVD-RW

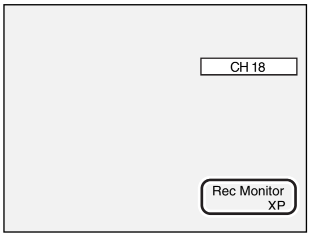
You can confirm the recording picture quality with the recording speed you have selected before attempting to record to a DVD disc.

First:

1

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

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


CH 18
Rec Monitor
XP

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

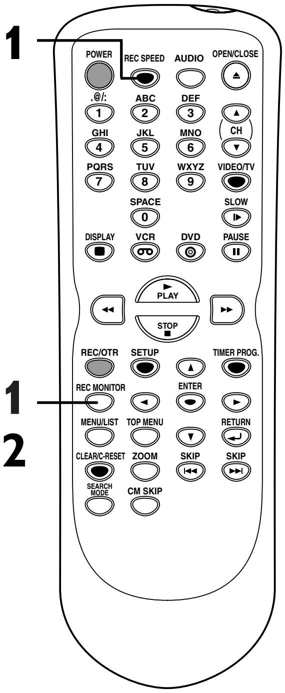
The recording speed will be changed as you press the button as shown. Refer to "Recording speed" on page 26.

- You cannot change the recording speed during recording.

XP → SP → LP
↑ ↓
SEP ← SLP ← EP

2

Press REC MONITOR button again to exit.


1
1
2
POWER
REC SPEED
AUDIO
OPEN/CLOSE
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
PLAY
STOP

Note

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

One-touch timer recording

DVD-R Video DVD-RW VR DVD-RW

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: DVD

1

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.

2

Select a recording speed using REC SPEED button.

Refer to "Recording speed" on page 26.

3

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.

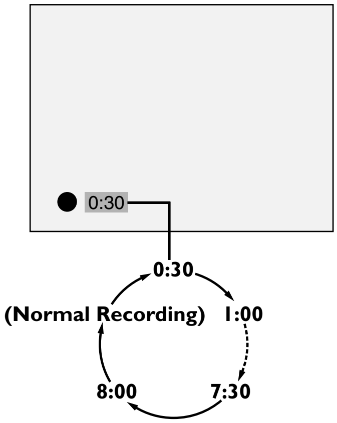
4

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

5

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.

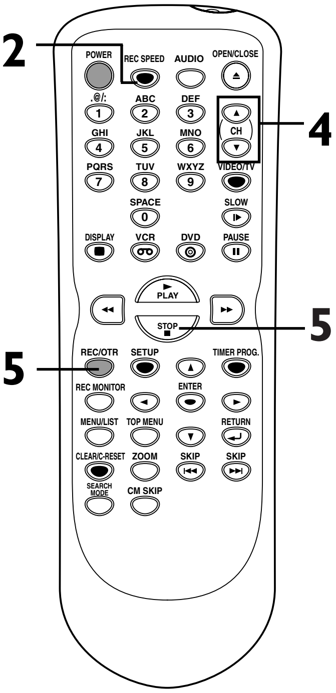
Recording will start.


● 0:30
0:30
(Normal Recording)
1:00
8:00
7:30

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

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

This operation may take a while to be completed.


2
4
5
5
POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/: 1
ABC 2
DEF 3
CH
GHI 4
JKL 5
MNO 6
PQRS 7
TUV 8
WXYZ 9
VIDEO/TV
SPACE 0
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP

Note

- The remaining recording time will appear on the display panel during an OTR. Press DISPLAY button to see it on the TV screen.
- The unit will be turned off automatically under the conditions following.
  1)No space remained on the disc.
  2)When a power failure occurs.
- If OTR is finished in DVD during playback or REC mode in VCR, the DVD will be in STOP mode and the VCR keeps the current mode.

Timer recording

DVD-R Video DVD-RW VR DVD-RW VCR

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.

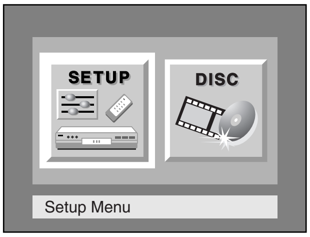
- Be sure to set the clock before making a timer programming.
- Insert a recordable disc or a tape with a safety tab.

1

Press SETUP button to display SETUP/DISC menu.

SETUP/DISC menu will appear.

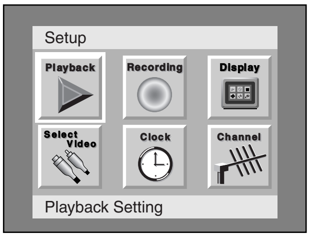
Screen:


SETUP
DISC
Setup Menu

2

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

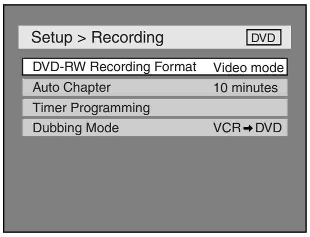
SETUP menu will appear.


Setup
Playback
Recording
Display
Select Video
Clock
Channel
Playback Setting

3

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

Recording menu will appear.



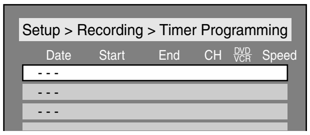
Setup > Recording DVD

DVD-RW Recording Format	Video mode
Auto Chapter	10 minutes
Timer Programming	
Dubbing Mode	VCR➔DVD

4

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

Timer Programming list will appear.



Setup > Recording > Timer Programming

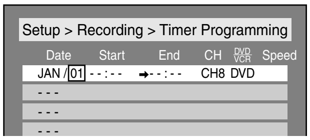
Date	Start	End	CH	DVD VCR	Speed
- - -					
- - -					
- - -					

5

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

6

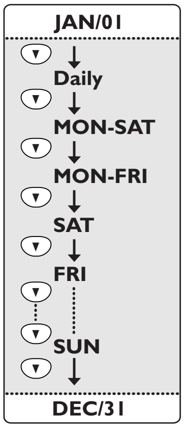
Enter the date using ▲ / ▼ buttons, then press ▶ button.



Setup > Recording > Timer Programming

Date	Start	End	CH	DVD VCR	Speed
JAN /01	- - : - -	➔- - : - -	CH8	DVD	
- - -					
- - -					
- - -					

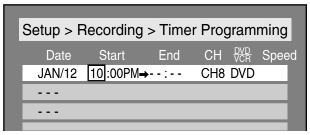
e.g. January 1st


JAN/01
Daily
MON-SAT
MON-FRI
SAT
FRI
SUN
DEC/31

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

7

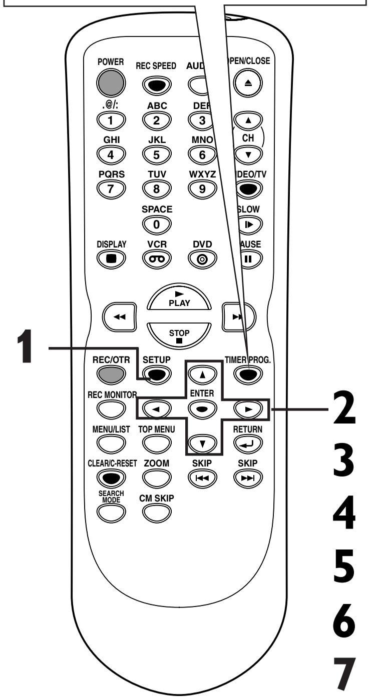
Enter the time to start and to end using ▲ / ▼ buttons, then press ▶ button.



Setup > Recording > Timer Programming

Date	Start	End	CH	DVD VCR	Speed
JAN/12	10:00PM	➔- - : - -	CH8	DVD	
- - -					
- - -					

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


POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/:
ABC
DEF
GHI
JKL
MNO
CH
PQRS
TUV
WXYZ
VIDEO/TV
SPACE
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
1
2
3
4
5
6
7

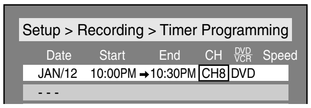
Note

- **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)

8

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



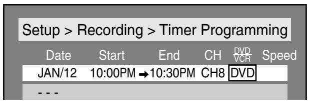
Setup > Recording > Timer Programming

Date	Start	End	CH	DVD VCR	Speed
JAN/12	10:00PM	→10:30PM	CH8	DVD	
- - -					

To record from external input, L1 or L2.

9

Select a recording media using ▲ / ▼ buttons, then press ▶ button.



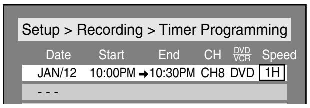
Setup > Recording > Timer Programming

Date	Start	End	CH	DVD VCR	Speed
JAN/12	10:00PM	→10:30PM	CH8	DVD	
- - -					

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

10

Select a recording speed using ▲ / ▼ buttons.



Setup > Recording > Timer Programming

Date	Start	End	CH	DVD VCR	Speed
JAN/12	10:00PM	→10:30PM	CH8	DVD	1H
- - -					

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

11

Press ENTER button when all information required is entered.

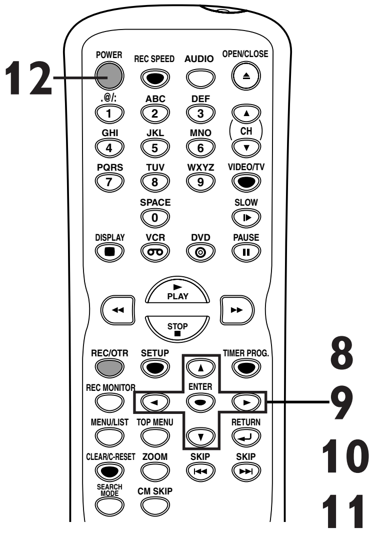
Your program setting will be stored.

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

12

Press POWER button to turn off.

⏲ indicator will appear on the front display.


12
POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/: 1
ABC 2
DEF 3
CH
GHI 4
JKL 5
MNO 6
PQRS 7
TUV 8
WXYZ 9
VIDEO/TV
SPACE 0
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
8
9
10
11

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.

Checking, canceling, or correcting the timer programming information

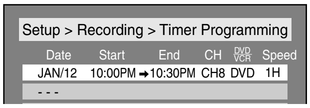
1

Press POWER button so that ⏲ indicator disappear from the front display.

2

Press TIMER PROG. button.

Timer Programming list will appear.



Setup > Recording > Timer Programming

Date	Start	End	CH	DVD VCR	Speed
JAN/12	10:00PM	→10:30PM	CH8	DVD	1H
- - -					

3

Check the information on the list you will need.

4

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

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

Next, correct the timer programming using ▲/▼/◀/▶ buttons.

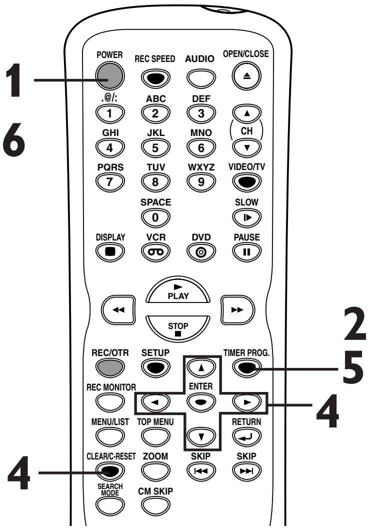
Finally, press ENTER button again.

5

Press TIMER PROG. button to exit.

6

Press POWER button to return to the timer standby mode.


1
6
POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/: 1
ABC 2
DEF 3
CH
GHI 4
JKL 5
MNO 6
PQRS 7
TUV 8
WXYZ 9
VIDEO/TV
SPACE 0
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
2
5
4
4

Note

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

To stop the timer recording in process

On the front panel of the main unit, press STOP ■ button to stop the disc recording or STOP/EJECT ■ ⏏ to stop the tape recording. STOP ■ button on the remote control is not effective.

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.

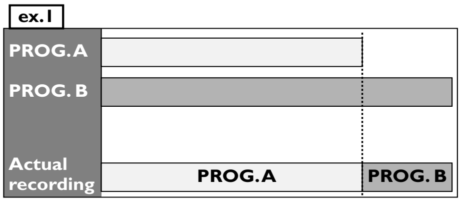
The priority of overlapped settings

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**

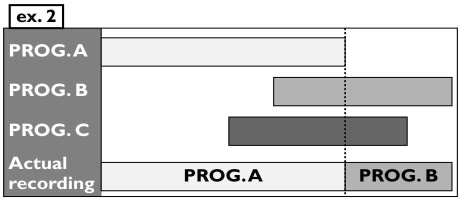
☐ **When the starting time is the same:**
A program set previously (PROG.A) has priority.

ex.1

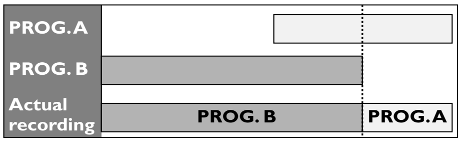


☐ **When some programming have been made at the end time of the programming currently being recorded:**
A program set previously (PROG. B) has priority.

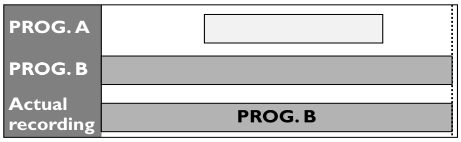
ex. 2



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



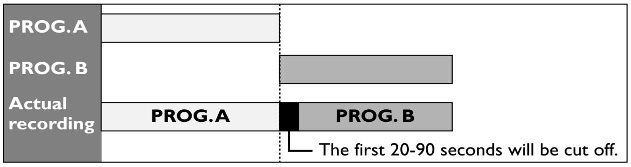
■ **When the recording time is entirely overlapped:**
PROG. A will not be recorded.



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.

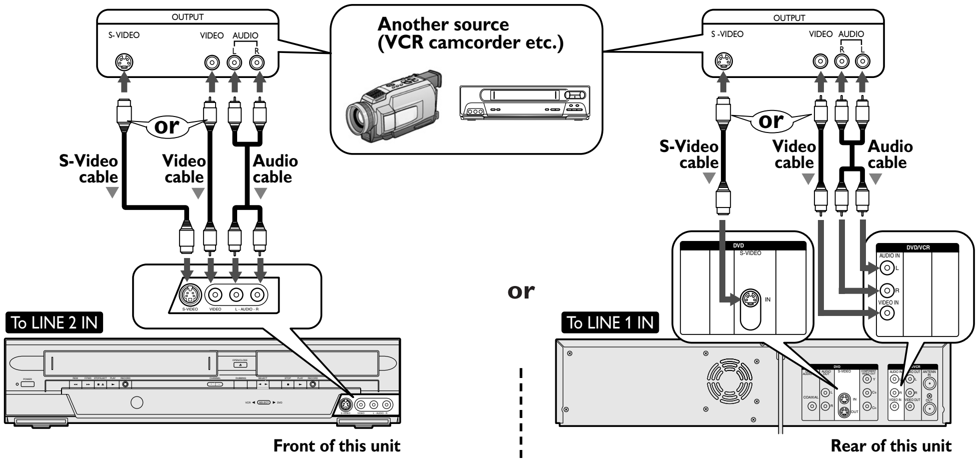
Example:
When the end time of the programming currently being recorded and the starting time of the one to be recorded sequentially are same:



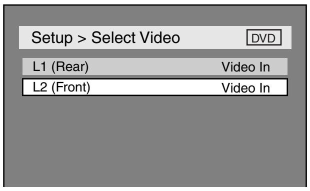
Settings for an external source

Connection to an external source

Connect the external source properly to the unit by using input jacks either LINE2 (Front) or LINE1 (Rear).
S-VIDEO input is useful only in DVD mode.
Use commercially available S-Video or Video cable and an Audio cable for this connection.

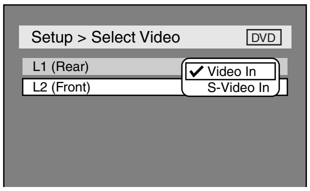

OUTPUT
S-VIDEO
VIDEO
AUDIO
L
R
or
S-Video cable
Video cable
Audio cable
Another source
(VCR camcorder etc.)
To LINE 2 IN
To LINE 1 IN
or
DVD
S-VIDEO
IN
DVD/VCR
AUDIO IN
VIDEO IN
Front of this unit
Rear of this unit

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.**



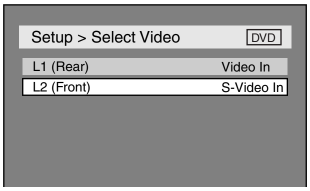
Setup > Select Video DVD
L1 (Rear) Video In
L2 (Front) Video In

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



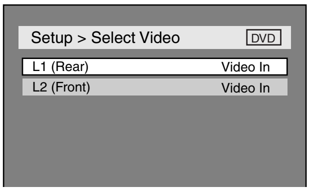
Setup > Select Video DVD
L1 (Rear)
L2 (Front)
✓ Video In
S-Video In

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



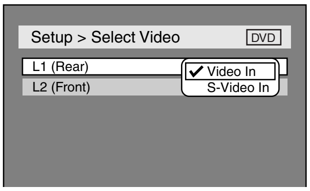
Setup > Select Video DVD
L1 (Rear) Video In
L2 (Front) S-Video In

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



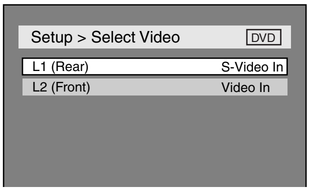
Setup > Select Video DVD
L1 (Rear) Video In
L2 (Front) Video In

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



Setup > Select Video DVD
L1 (Rear)
L2 (Front)
✓ Video In
S-Video In

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".



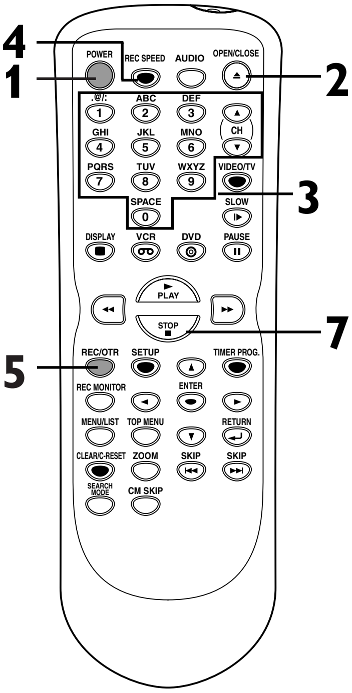
Setup > Select Video DVD
L1 (Rear) S-Video In
L2 (Front) Video In

Settings for an external source (cont'd)

Recording from an external source

DVD-R Video DVD-RW VR DVD-RW VCR

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


4
1
2
3
7
5
POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/: 1
ABC 2
DEF 3
CH
GHI 4
JKL 5
MNO 6
PQRS 7
TUV 8
WXYZ 9
VIDEO/TV
SPACE 0
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP

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: DVD**
   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 the tape: Press: VCR
   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 ▲ / ▼ buttons.
   - To use the input jacks on the front of this unit, select "L2" position by pressing [0],[0],[2] on the remote control or the CH ▲ / ▼ buttons.

4. **Select a recording speed using REC SPEED button.** Refer to "Recording speed" on page 26 for DVD or page 94 for VCR.

XP → SP → LP
↑ ↓
SEP ← SLP ← EP

DVD mode

SP ⇄ SLP

VCR mode

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 ■ ▲ button on the unit to stop recording.

Dubbing Mode

DVD-R Video DVD-RW VR DVD-RW VCR

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:

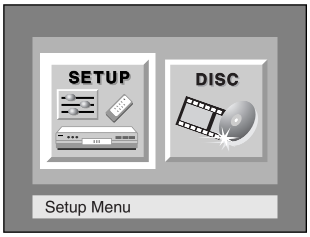
- The DVD disc is satisfied with the recording status. Refer to pages 26-27.

1

Press SETUP button to display SETUP/DISC menu.

SETUP/DISC menu will appear.

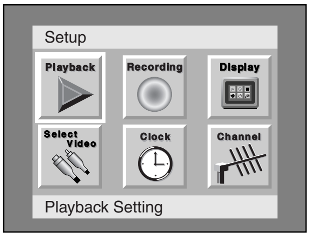
Screen:


SETUP
DISC
Setup Menu

2

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

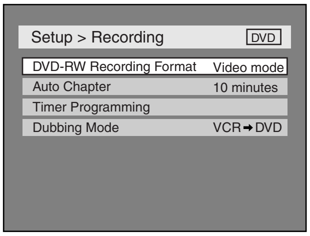
SETUP menu will appear.


Setup
Playback
Recording
Display
Select Video
Clock
Channel
Playback Setting

3

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

Recording menu will appear.



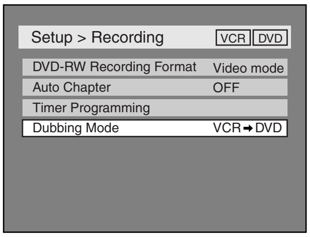
Setup > Recording DVD

DVD-RW Recording Format Video mode
Auto Chapter 10 minutes
Timer Programming
Dubbing Mode VCR➔DVD

4

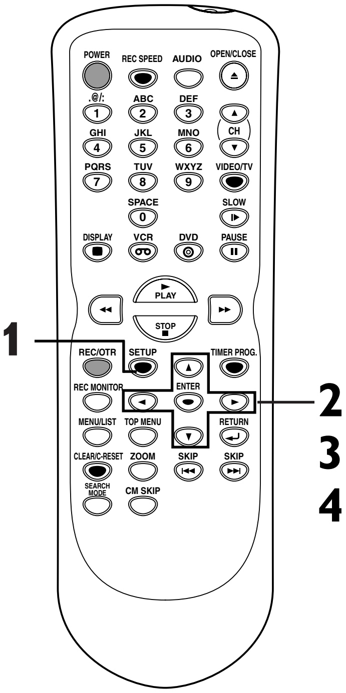
Select "Dubbing Mode" using ▲ / ▼ buttons, then press ENTER button.

Option window will appear.



Setup > Recording VCR DVD

DVD-RW Recording Format Video mode
Auto Chapter OFF
Timer Programming
Dubbing Mode VCR➔DVD


POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/: 1
ABC 2
DEF 3
CH
GHI 4
JKL 5
MNO 6
PQRS 7
TUV 8
WXYZ 9
VIDEO/TV
SPACE 0
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
1
2
3
4

Note

For VCR to DVD duplication:

- After start VCR to DVD duplication, the picture may be distorted because of the auto tracking function. This in not a malfunction. Be advised that 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.

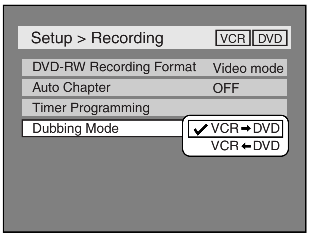
Instructions continue on the next page.

Dubbing Mode (cont'd)

VCR to DVD

5

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



Setup > Recording VCR DVD

DVD-RW Recording Format Video mode

Auto Chapter OFF

Timer Programming

Dubbing Mode ✓VCR➔DVD VCR⬅DVD

6

Press SETUP button to exit SETUP menu.

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

Press: VCR

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.

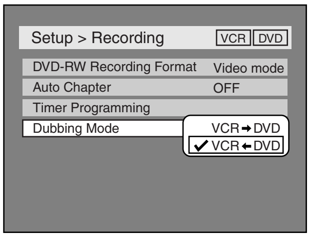
9-a

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

DVD to VCR

5

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



Setup > Recording VCR DVD

DVD-RW Recording Format Video mode

Auto Chapter OFF

Timer Programming

Dubbing Mode VCR➔DVD ✓VCR⬅DVD

6

Press SETUP button to exit SETUP menu.

Press: VCR

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

Press: DVD

7-b

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

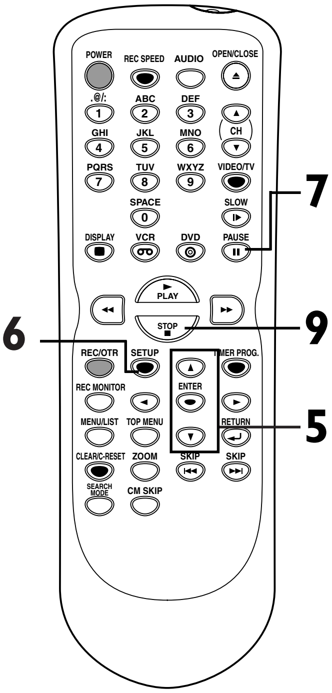
8

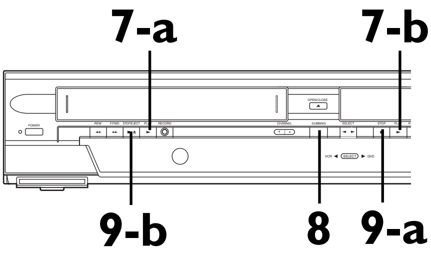
Press DUBBING button on the front of the unit.

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.


POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/: 1
ABC 2
DEF 3
CH
GHI 4
JKL 5
MNO 6
PQRS 7
TUV 8
WXYZ 9
VIDEO/TV
SPACE 0
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
7
6
9
5



Note

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

For VCR to DVD duplication:

- The playback sound mode is followed by the setting of VCR playback sound mode on page 96. Set the playback sound mode to which you wish to record to the DVD.

Finalizing the discs

DVD-R Video DVD-RW VR DVD-RW

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.**

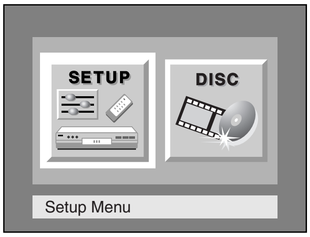
Details are on pages 26-27.

1

Press SETUP button to display SETUP/DISC menu.

SETUP/DISC menu will appear.

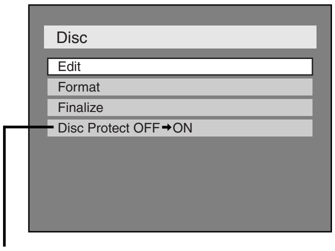
Screen:


SETUP
DISC
Setup Menu

2

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

DISC menu will appear.

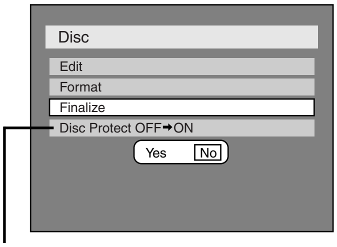

Disc
Edit
Format
Finalize
Disc Protect OFF➔ON

*VR mode only

3

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

Option window will appear.

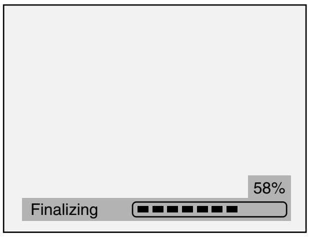

Disc
Edit
Format
Finalize
Disc Protect OFF➔ON
Yes
No

*VR mode only

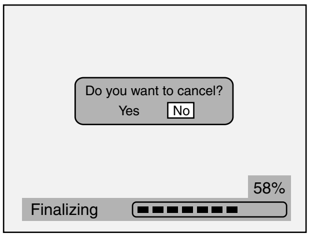
4

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

Finalizing will start.


58%
Finalizing

To cancel finalizing, press STOP ■ button.

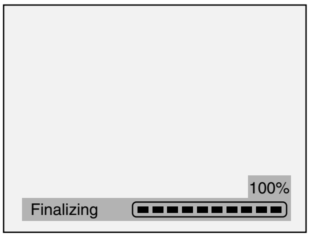

Do you want to cancel?
Yes
No
58%
Finalizing

Select "Yes", then press ENTER button.

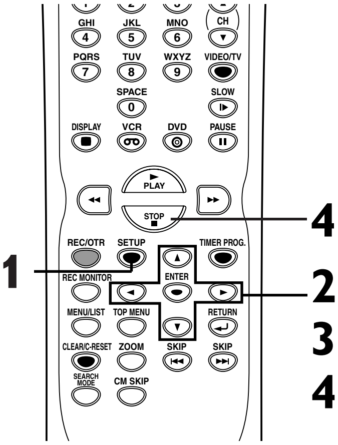
Finalizing is cancelled, then the unit will be in stop mode.

5

Finalizing is complete.

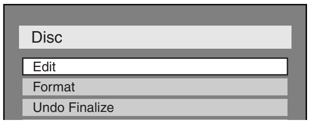

100%
Finalizing

This operation may take a while to be completed.


GHI 4
JKL 5
MNO 6
CH
PQRS 7
TUV 8
WXYZ 9
VIDEO/TV
SPACE 0
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
1
4
2
3
4

Note

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


Disc
Edit
Format
Undo Finalize

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

- If ⊘ 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 and press ENTER or RETURN button, finalizing will be continued.
- You cannot cancel finalizing the DVD-R disc once it has started.

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

Setting a disc to protect

VR DVD-RW

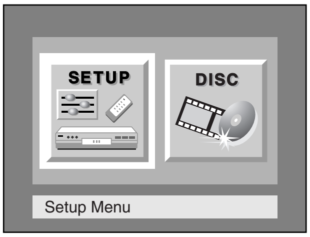
To prevent accidental recording, editing or erasing the titles, you can protect them from DISC menu.

1

Press SETUP button to display SETUP/DISC menu.

SETUP/DISC menu will appear.

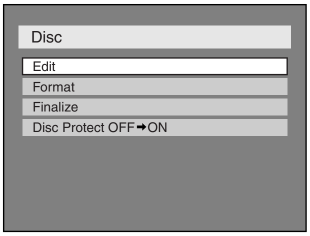
Screen:


SETUP
DISC
Setup Menu

2

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

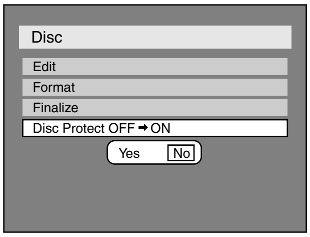
DISC menu will appear.


Disc
Edit
Format
Finalize
Disc Protect OFF➜ON

3

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

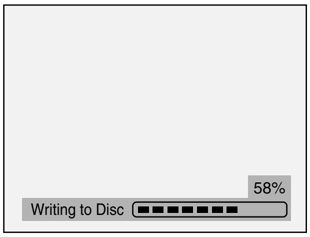
Option window will appear.


Disc
Edit
Format
Finalize
Disc Protect OFF➜ON
Yes
No

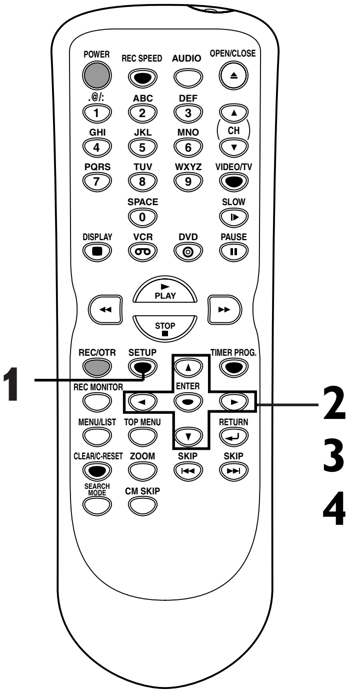
4

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

A disc will be protected.


58%
Writing to Disc

This operation may take a while to be completed.

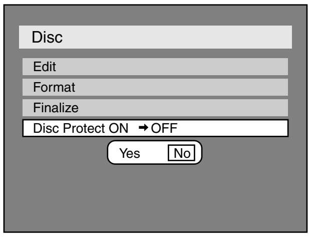

POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/:
ABC
DEF
1
2
3
CH
GHI
JKL
MNO
4
5
6
PQRS
TUV
WXYZ
VIDEO/TV
7
8
9
SPACE
0
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
1
2
3
4

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".


Disc
Edit
Format
Finalize
Disc Protect ON ➜OFF
Yes
No

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.

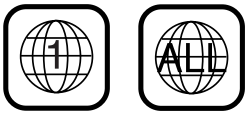
Disc	Logo
DVD VIDEO	DVD VIDEO
DVD-RW (VIDEO/VR FORMAT)	DVD RW
DVD-R (VIDEO FORMAT)	DVD R R4.7
CD-DA (AUDIO CD)	COMPACT disc DIGITAL AUDIO
CD-R (CD-DA FORMAT, MP3 files)	COMPACT disc Recordable
CD-RW (CD-DA FORMAT, MP3 files)	COMPACT disc ReWritable

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 system.

Region codes

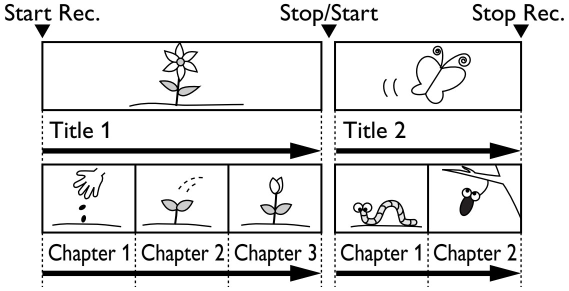
This unit has been designed to play DVD discs with Region One (1). DVDs must be labeled for ALL regions or for Region 1 in order to play on the unit. You cannot play DVDs that are labeled for other regions. Look for the symbols below on your DVDs. If these region symbols do not appear on your DVD, you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

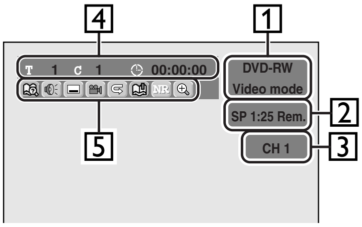
The contents of DVD disc are generally divided into titles. Titles may be further subdivided into chapters.



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 possible recording time left.
3. Indicates a current channel number and an audio status of the program.
4. Indicates a title number, chapter number and the time elapsed of disc play.
5. Each icon means:

🔍 : Search
🔊 : Audio
▭ : Subtitle
🎥 : Angle (except VR mode)
↻ : Repeat
📖 : Marker
NR : Noise Reduction
⊕ : Zoom

Playing discs

Basic playback

Playback

DVD-R Video DVD-RW VR DVD-RW

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.

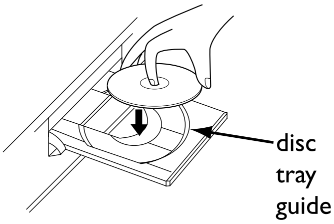
2

Press OPEN/CLOSE ▲ 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.


disc tray guide

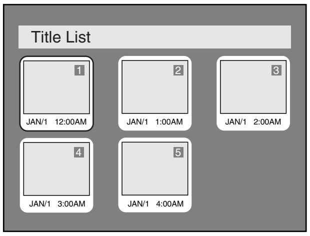
This operation may take a while to be recognized.

4

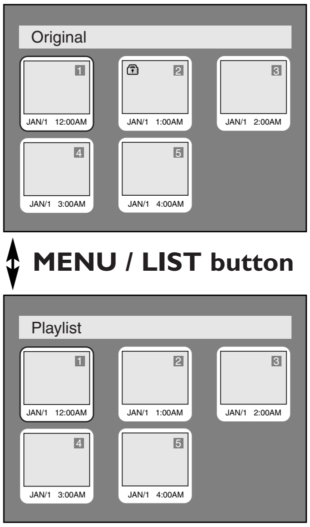
Press TOP MENU button to display the title menu.

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

Video mode:


Title List
1 JAN/1 12:00AM
2 JAN/1 1:00AM
3 JAN/1 2:00AM
4 JAN/1 3:00AM
5 JAN/1 4:00AM

VR mode:


Original
1 JAN/1 12:00AM
2 JAN/1 1:00AM
3 JAN/1 2:00AM
4 JAN/1 3:00AM
5 JAN/1 4:00AM
MENU / LIST button
Playlist
1 JAN/1 12:00AM
2 JAN/1 1:00AM
3 JAN/1 2:00AM
4 JAN/1 3:00AM
5 JAN/1 4:00AM

5

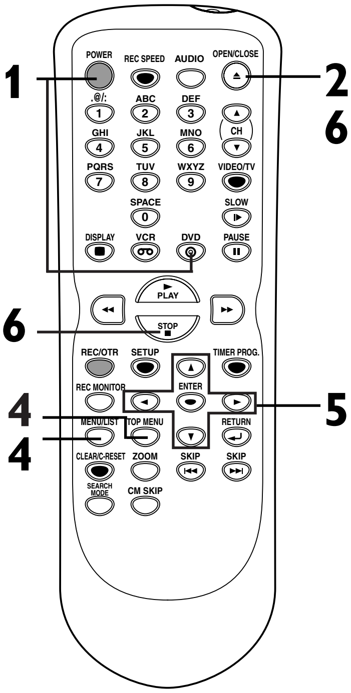
Select a desired title using ▲ / ▼ / ◀ / ▶ buttons, then press ENTER button.

Playback will start.

6

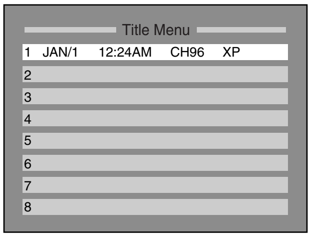
Press STOP ■ button to stop playback.

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


1
2
6
6
4
4
5
POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/: 1
ABC 2
DEF 3
CH
GHI 4
JKL 5
MNO 6
PQRS 7
TUV 8
WXYZ 9
VIDEO/TV
SPACE 0
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP

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.



Title Menu

1 JAN/1 12:24AM CH96 XP
2
3
4
5
6
7
8

- You can resume play from where you stopped playing the disc. (Resume play) Refer to page 46 for details about resume play.
- Some discs may start playing automatically.

Playing discs

Basic playback (cont'd)

DVD-V CD MP3

1
Press POWER button, then press DVD button.
When you are playing a DVD or an audio CD, turn the TV on and be sure to select the input to which the unit is connected.

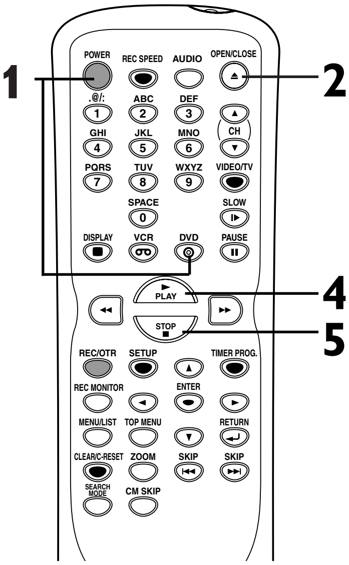
2
Press OPEN/CLOSE ▲ button to open the disc tray.
The disc tray will open.

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

4
Press PLAY ▶ button to start playing.
Playback will start.

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

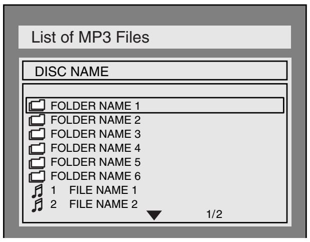
5
Press STOP ■ button to stop playing.



Note
- Some discs may start playing automatically.

For MP3 playback

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


List of MP3 Files

DISC NAME

FOLDER NAME 1
FOLDER NAME 2
FOLDER NAME 3
FOLDER NAME 4
FOLDER NAME 5
FOLDER NAME 6
1 FILE NAME 1
2 FILE NAME 2
1/2

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

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

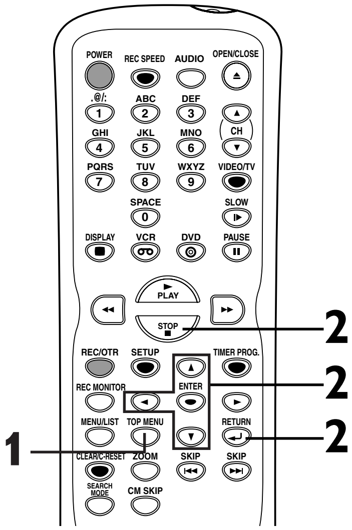
When selecting track:
Playback will start.

When selecting the folder:
The files in folder will appear.
Press ▲ or ▼ button to select the track 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 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 🗀 icon.
- MP3 files are accompanied by ♬ 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 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 is other than ".mp3 (MP3)" will not be listed in the MP3 menu.
- Some unplayable folders or tracks may be listed in the MP3 menu due to the recording status.

Basic playback (cont'd)

Playing discs using the disc menu

DVD-V

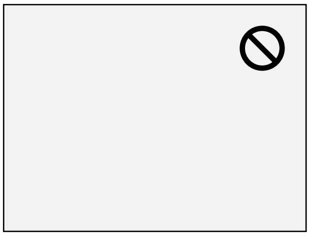
A DVD disc contains a disc menu that describes the contents or allows you to customize the playback. For example, the menu may offer choices for subtitle languages, special features, or chapter selection.
Sometimes these are displayed automatically when you start playback, otherwise only appear when you press MENU / LIST button.

First: DVD

1

Press MENU / LIST button.
The DVD main menu will appear.

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



2

Select an item using ▲ / ▼ / ◀ / ▶ buttons, then press ENTER button to confirm.
Continue this step to set up all the features you want or to start playing the disc from the menu.

MENU / LIST button:
Displays a DVD disc menu which varies with the disc and may be the same as the 'Title menu.'

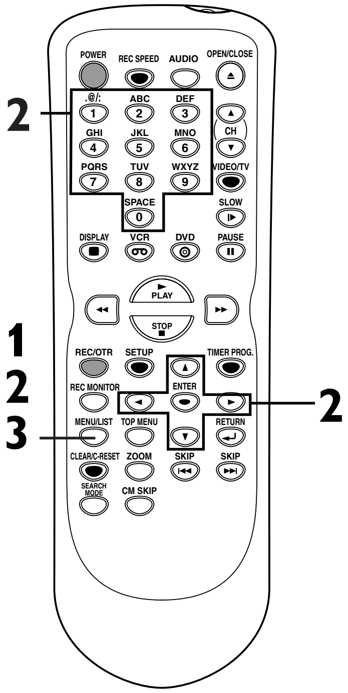
▲ / ▼ / ◀ / ▶ buttons:
Moves the cursor around screen.

Enter button:
Selects the currently highlighted menu option.

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

3

Press MENU / LIST button to exit the menu.


2
1
2
3
2
POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/: 1
ABC 2
DEF 3
GHI 4
JKL 5
MNO 6
PQRS 7
TUV 8
WXYZ 9
SPACE 0
CH
VIDEO/TV
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP

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

Basic playback (cont'd)

Playing discs using the title menu

DVD-V

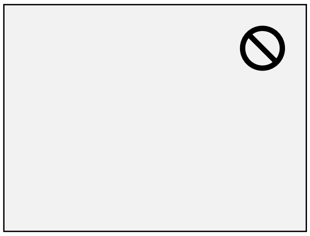
Some DVDs have a title menu, which lists the titles available on them. It helps you to start playback at a specific title.

First: DVD

1

Press TOP MENU button.
The title menu will appear.

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



2

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

TOP MENU button:
Displays the 'Title menu' of a DVD disc which varies with the disc.

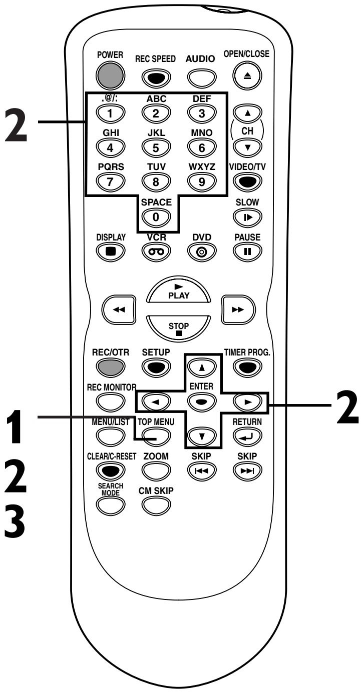
▲ / ▼ / ◀ / ▶ buttons:
Moves the cursor around screen.

Enter button:
Selects the currently highlighted menu option.

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

3

Press TOP MENU button to exit the title menu.


2
1
2
3
2
POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/:
ABC
DEF
GHI
JKL
MNO
PQRS
TUV
WXYZ
VIDEO/TV
CH
SPACE
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP

Note

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

Special playback

Resume play

DVD-V DVD-R Video DVD-RW VR DVD-RW CD MP3

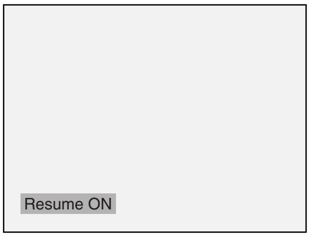
You can resume play from where you stopped playing the disc last.

1

During playback, press STOP ■ button.

The resume message will appear.

Screen:

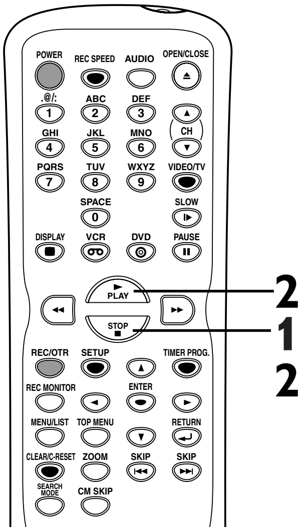


2

Press PLAY ► button.

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

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


POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/: 1
ABC 2
DEF 3
CH
GHI 4
JKL 5
MNO 6
PQRS 7
TUV 8
WXYZ 9
VIDEO/TV
SPACE 0
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
2
1
2

Note

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

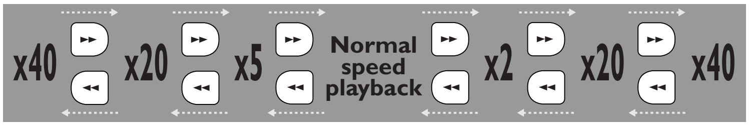
Fast forward / Fast reverse

DVD-V DVD-R Video DVD-RW VR DVD-RW CD MP3

1

During playback, press ►► or ◄◄ button.

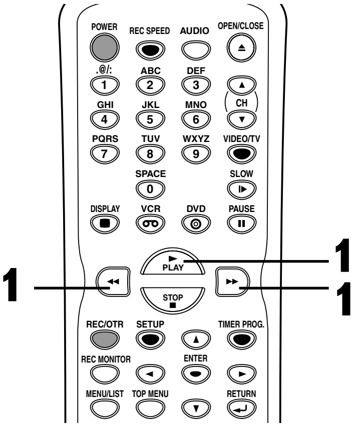
Every time you press ►► or ◄◄ button, approximate speed will be changed as follows. (For DVD discs, the sound will be output during playback in fast forward of x2 only if you set "Fast Forward with Audio" to "ON" for the "Playback" setting in the SETUP menu.)


x40
x20
x5
Normal speed playback
x2
x20
x40

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.


POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/: 1
ABC 2
DEF 3
CH
GHI 4
JKL 5
MNO 6
PQRS 7
TUV 8
WXYZ 9
VIDEO/TV
SPACE 0
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
1
1
1

Note

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

  Forward (Approx. Speed)
  x2: ►▸
  x20: ►▸▸
  x40: ►▸▸▸
  Reverse (Approx. Speed)
  x5: ►◂
  x20: ►◂◂
  x40: ►◂◂◂

Special playback (cont'd)

Skipping TV commercials during play

DVD-R | Video DVD-RW | VR DVD-RW

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

1

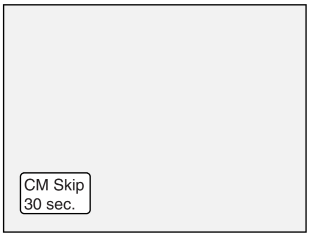
During playback, press CM SKIP button.

Normal playback will start at 30 seconds ahead from the point you press CM SKIP button.

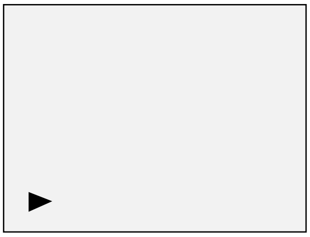
Every time you press CM SKIP button, searching point will be extended by 30 seconds ahead.

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

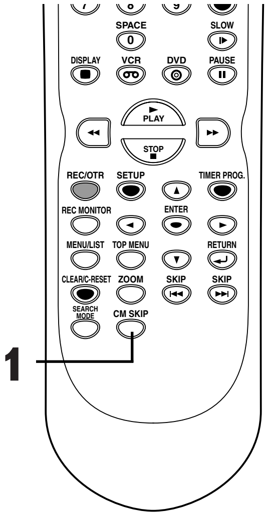
e.g. Press CM SKIP button once


CM Skip
30 sec.

(forwarding 30 seconds.)



Playback will restart automatically.


SPACE
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
1

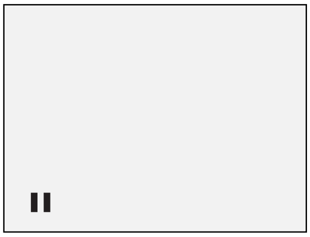
Pause

DVD-V | DVD-R | Video DVD-RW | VR DVD-RW | CD | MP3

1

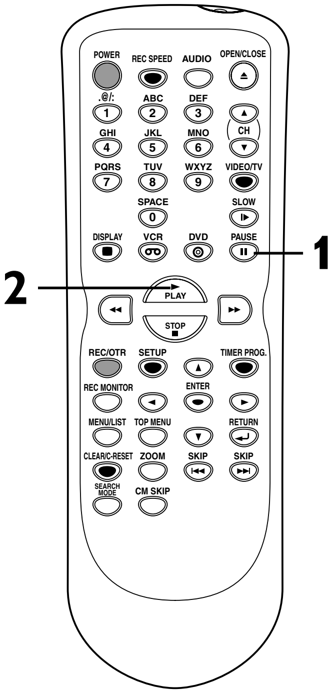
During playback, press PAUSE ❙❙ button.

Playback will pause and sound will be muted.



2

Press PLAY ► button to resume play.


POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/:
ABC
DEF
GHI
JKL
MNO
CH
PQRS
TUV
WXYZ
VIDEO/TV
SPACE
SLOW
DISPLAY
VCR
DVD
PAUSE
1
2
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP

Special playback (cont'd)

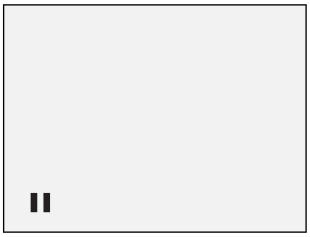
Step by step playback

DVD-V DVD-R Video DVD-RW VR DVD-RW

1

During playback, press PAUSE ❚❚ button.

Playback will pause and sound will be muted.



2

Press SKIP ▶▶❙ button repeatedly.

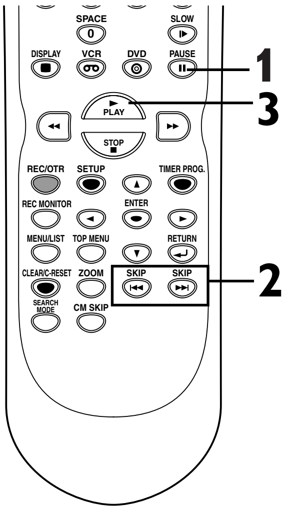
The playback will advance one frame (or step) at a time when you press the skip button with the sound muted.

To play step by step backward:

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

3

Press PLAY ▶ button to resume play.


SPACE
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
1
3
2

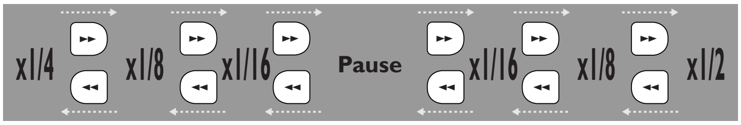
Slow forward / Slow reverse play

DVD-V DVD-R Video DVD-RW VR DVD-RW

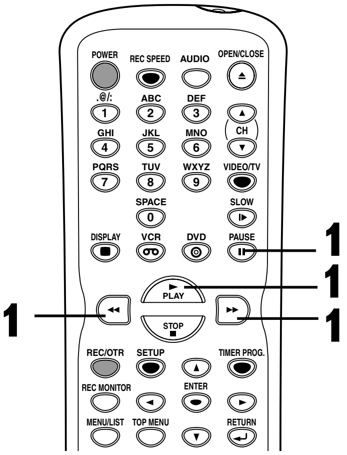
1

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.)


x1/4
x1/8
x1/16
Pause
x1/16
x1/8
x1/2

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


POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/:
ABC
DEF
1
2
3
GHI
JKL
MNO
CH
4
5
6
PQRS
TUV
WXYZ
VIDEO/TV
7
8
9
SPACE
SLOW
0
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
1
1
1
1

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)

Zoom

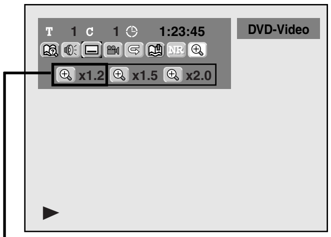
DVD-V DVD-R Video DVD-RW VR DVD-RW

1

During playback, press ZOOM button.

Zoom menu will appear.

Screen:

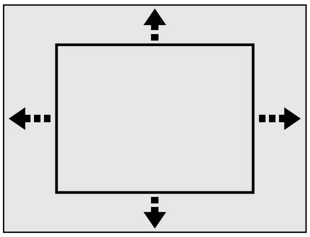

T 1 C 1 1:23:45
DVD-Video
x1.2 x1.5 x2.0

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

2

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

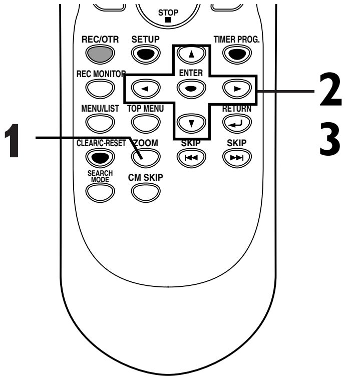
The zoom area will be displayed.



3

Select a desired zoom position using ▲ / ▼ / ◄ / ► buttons, then press ENTER button.

The zoom play will start.


STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
1
2
3

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 x1.0 using ◄ / ► buttons, then press ENTER button.

Marker Setup

DVD-V DVD-R Video DVD-RW VR DVD-RW CD

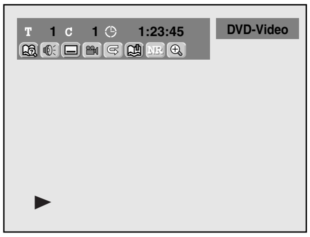
This feature allows you to assign a specific point on a disc to be called back later.

1

During playback, press DISPLAY button.

The display menu will appear.

Screen:

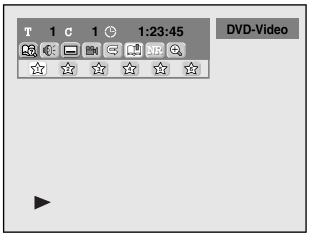

T 1 C 1 1:23:45
DVD-Video

2

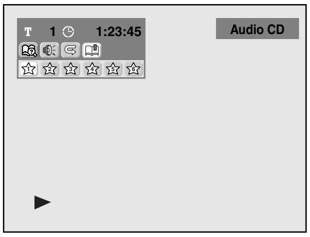
Select 📖 icon using ◄ / ► buttons, then press ENTER button.

Marker setup menu will appear.

Screen for DVD:


T 1 C 1 1:23:45
DVD-Video

Screen for CD:

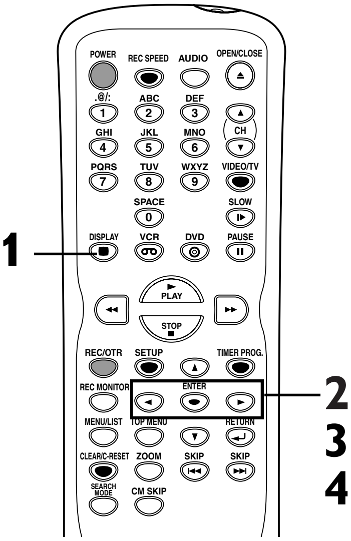

T 1 1:23:45
Audio CD

3

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

4

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


POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/:
ABC
DEF
1
2
3
CH
GHI
JKL
MNO
4
5
6
PQRS
TUV
WXYZ
VIDEO/TV
7
8
9
SPACE
0
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
1
2
3
4

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 disc.
  - – Changing the mode between Original and Playlist. (VR mode)
- You can mark up to 6 points.

Search

Title/Chapter search

DVD-V DVD-R Video DVD-RW VR DVD-RW

Using SKIP ⏮ / ⏭ buttons

1

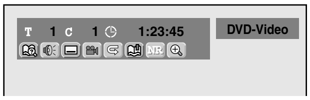
During playback, press SKIP ⏭ button to skip the current title or chapter and move to the next.
The title or chapter will move forward by one at a time.

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

Using DISPLAY button

1

During playback, press DISPLAY button.
The display menu will appear.
Screen:



T 1 C 1 1:23:45 DVD-Video

2

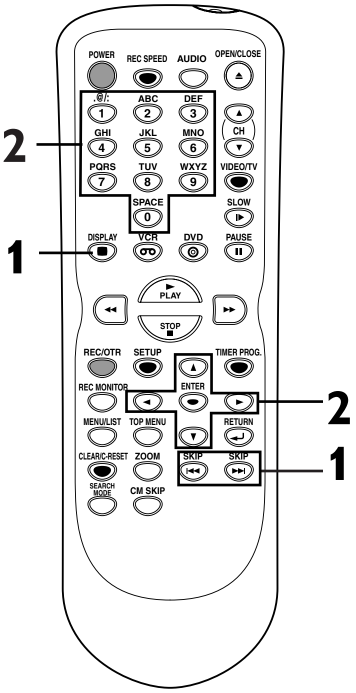
Select 🔍 icon using ◀ / ▶ buttons, then press ENTER button.
'T' for title will be highlighted.

Title:

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

Chapter:

To move to 'C' for chapter, press ▶ button.
Enter a desired chapter number to search using ▲ / ▼ buttons or number buttons, then press ENTER button.
Chapter search will start.



2
1
2
1
POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/: 1
ABC 2
DEF 3
GHI 4
JKL 5
MNO 6
PQRS 7
TUV 8
WXYZ 9
SPACE 0
CH
VIDEO/TV
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP

Search (cont'd)

Track search

CD **MP3**

Using SKIP ⏮ / ⏭ buttons

1

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

The track will move forward one at a time.

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

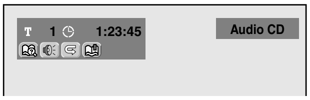
Using DISPLAY button

1

During playback, press DISPLAY button.

The display menu will appear.

Screen:



T 1 ⏱ 1:23:45 Audio CD

2

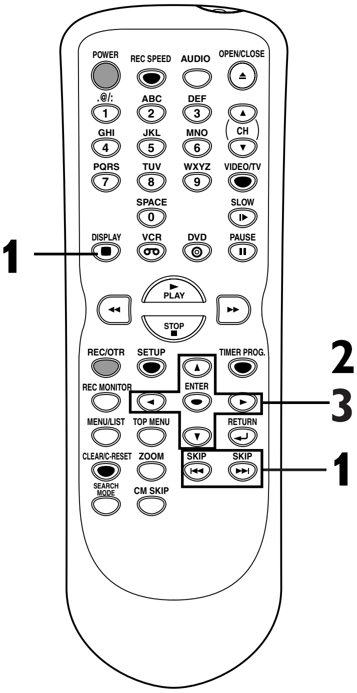
Select 🔍 icon using ◀ / ▶ buttons, then press ENTER button.

'T' for track will be highlighted.

3

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

Track search will start.


1
2
3
1
POWER
REC SPEED
AUDIO
OPEN/CLOSE
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP

Time search

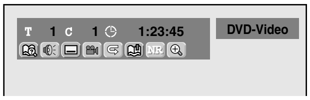
DVD-V **DVD-R** **Video DVD-RW** **VR DVD-RW** **CD**

1

During playback, press DISPLAY button.

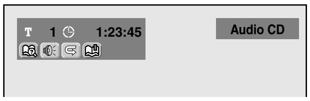
The display menu will appear.

Screen for DVD:



T 1 C 1 ⏱ 1:23:45 DVD-Video

Screen for CD:



T 1 ⏱ 1:23:45 Audio CD

2

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

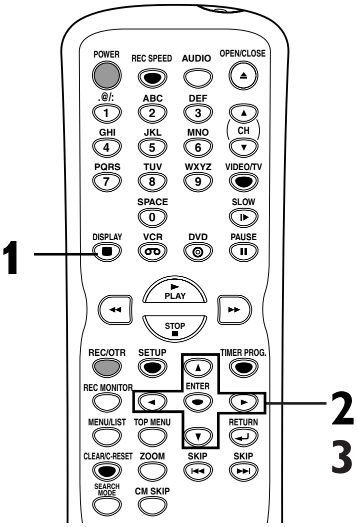
'T' for title or track will be highlighted.

To move to the clock icon, press ▶ button.

3

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

Time search will start.


1
2
3
POWER
REC SPEED
AUDIO
OPEN/CLOSE
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP

Note

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

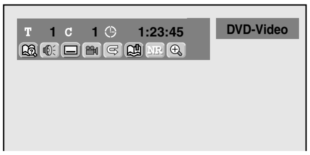
Playing discs

Repeat/Random/Program play

Repeat play

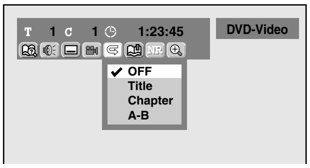
DVD-V DVD-R Video DVD-RW VR DVD-RW CD MP3

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


T 1 C 1 1:23:45
DVD-Video

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

Screen:


T 1 C 1 1:23:45
DVD-Video
✔ OFF
Title
Chapter
A-B

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)

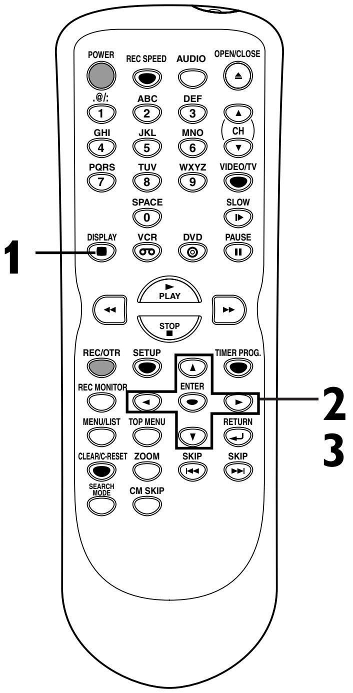
All:
The current disc will be played repeatedly. (CD, MP3, DVD-RW (VR mode) only)

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)


POWER
REC SPEED
AUDIO
OPEN/CLOSE
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SEARCH MODE
CM SKIP
1
2
3

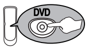
Note

- The A-B Repeat playback can only be set with in 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

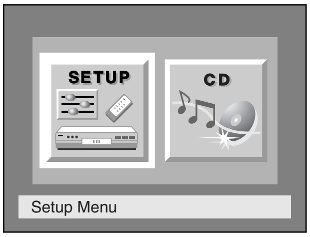
CD MP3

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

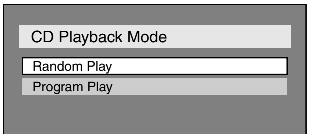
First: 

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

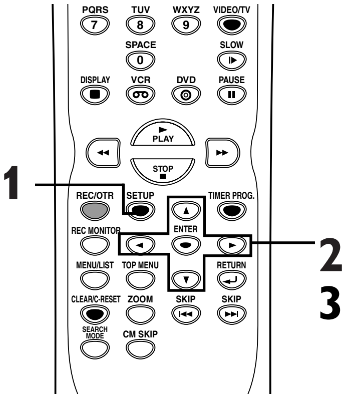
Screen:


SETUP
CD
Setup Menu

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


CD Playback Mode
Random Play
Program Play

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


DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
SKIP
CM SKIP
1
2
3

Note

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

Repeat/Random/Program play (cont'd)

Program play

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

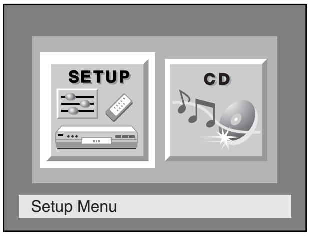
First:

1

Press SETUP button to display SETUP/CD menu.

SETUP/CD menu will appear.

Screen:

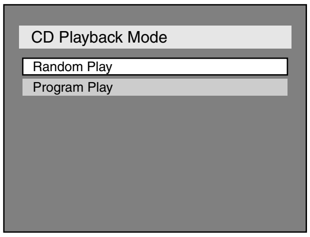


Setup Menu

2

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

CD Playback Mode menu will appear.



CD Playback Mode

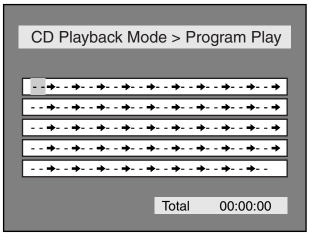
Random Play

Program Play

3

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

Program play list will appear.



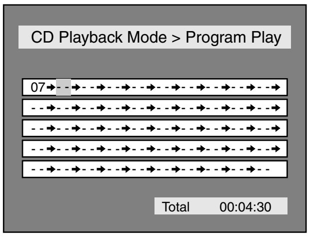
CD Playback Mode > Program Play

Total 00:00:00

4

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

A cursor will move to the next.



CD Playback Mode > Program Play

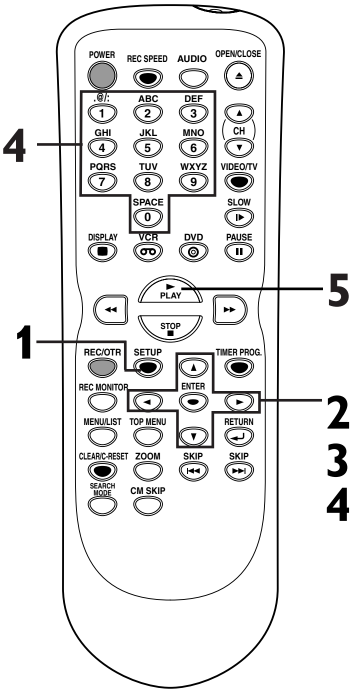
07

Total 00:04:30

5

Press PLAY ▶ button to start program playback.

Program playback will start.


POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/:
ABC
DEF
GHI
JKL
MNO
CH
PQRS
TUV
WXYZ
VIDEO/TV
SPACE
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
1
2
3
4
4
5

Note

- To erase tracks you selected, press CLEAR/C-RESET button.
- 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 and video format as you prefer depending on the contents of the disc you are playing.

Switching audio soundtrack

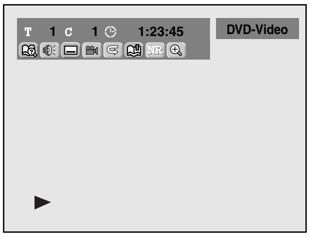
DVD-V VR DVD-RW

When playing a DVD-Video disc recorded with two or more soundtracks (these are often in different languages), you can switch between them anytime during playback.
On DVD-RW discs recorded in VR mode, you can switch to main (L), sub audio (R) or a mix of both (L/R).

1

During playback, press DISPLAY button.

The display menu will appear.
Screen:

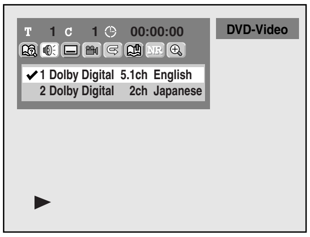


T 1 C 1 1:23:45
DVD-Video
▶

2

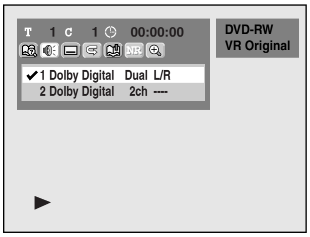
Select 🔊 icon using ◀ / ▶ buttons, then press ENTER button.

Audio menu will appear.
<DVD-Video>



T 1 C 1 00:00:00
DVD-Video
✔1 Dolby Digital 5.1ch English
2 Dolby Digital 2ch Japanese
▶

<DVD-RW VR mode>



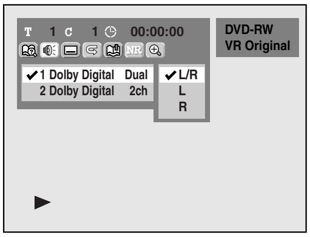
T 1 C 1 00:00:00
DVD-RW VR Original
✔1 Dolby Digital Dual L/R
2 Dolby Digital 2ch ----
▶

3

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 step 4.

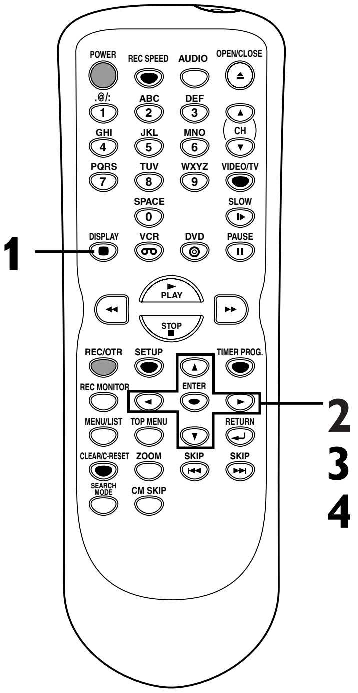


T 1 C 1 00:00:00
DVD-RW VR Original
✔1 Dolby Digital Dual
2 Dolby Digital 2ch
✔L/R
L
R
▶

4

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

Audio channel will switch.


POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/: 1
ABC 2
DEF 3
CH
GHI 4
JKL 5
MNO 6
PQRS 7
TUV 8
WXYZ 9
VIDEO/TV
SPACE 0
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
1
2
3
4

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)

CD MP3

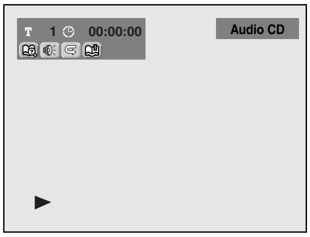
When playing Audio CDs or MP3 files you can switch between stereo, just the left channel or just the right channel.

1

During playback, press DISPLAY button.

The display menu will appear.

Screen:


T 1 00:00:00

Audio CD

▶

2

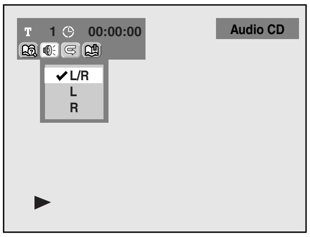
Select 🔈 icon using ◀ / ▶ buttons, then press ENTER button.

Audio menu will appear.

3

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

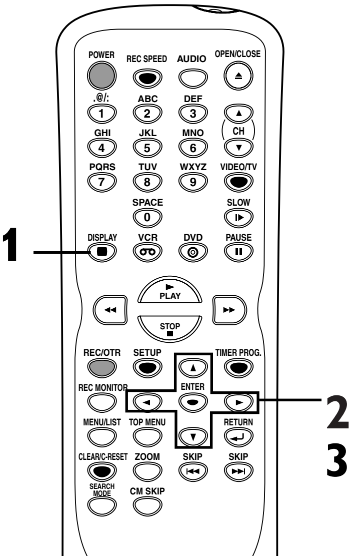
Audio channel will switch.


T 1 00:00:00

Audio CD

✔L/R
L
R

▶



Switching subtitles

DVD-V VR DVD-RW

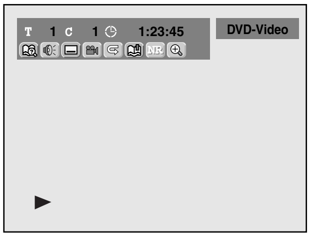
Many DVD Video discs have subtitles in one or more languages – the case usually tells you which subtitle languages are available. You can switch subtitle languages anytime during playback.

1

During playback, press DISPLAY button.

The display menu will appear.

Screen:


T 1 C 1 1:23:45

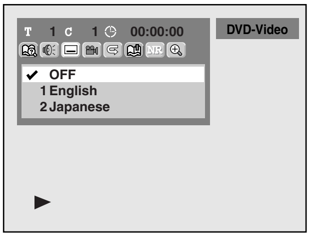
DVD-Video

▶

2

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

Subtitle menu will appear.


T 1 C 1 00:00:00

DVD-Video

✔ OFF
1 English
2 Japanese

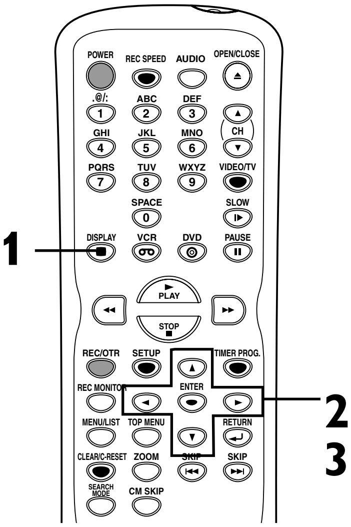
▶

3

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

Subtitle will be displayed in the selected language.

When selecting "OFF," subtitle will disappear.



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

DVD-V

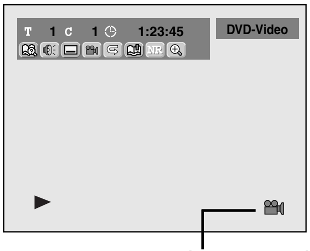
Some DVD Video discs feature scenes shot from two or more angles–check the case for details: it should be marked with an angle icon if it contains multi-angle scenes.

1

During playback, press DISPLAY button.

The display menu will appear.

Screen:

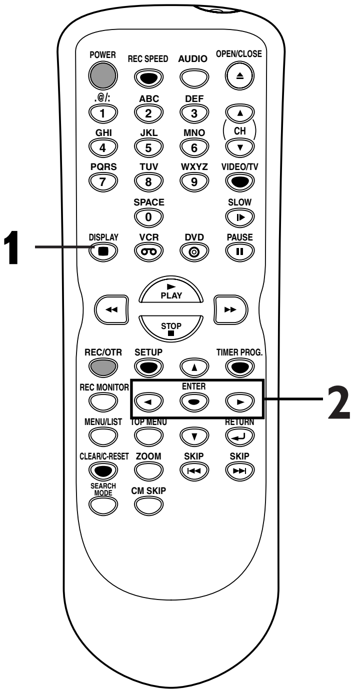

T 1 C 1 1:23:45
DVD-Video
NR
▶

Angle icon appears when a switching camera angle is available.

2

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

Angle will switch each you press ENTER button.


1
2
POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/: 1
ABC 2
DEF 3
CH
GHI 4
JKL 5
MNO 6
PQRS 7
TUV 8
WXYZ 9
VIDEO/TV
SPACE 0
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP

Reducing block noise

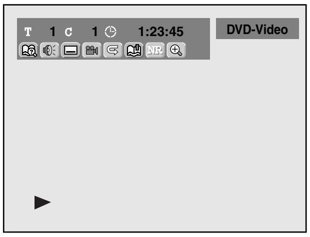
DVD-V DVD-R Video DVD-RW VR DVD-RW

1

During playback, press DISPLAY button.

The display menu will appear.

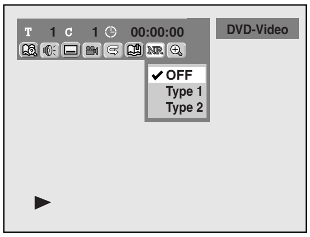
Screen:


T 1 C 1 1:23:45
DVD-Video
NR
▶

2

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

NR menu will appear.

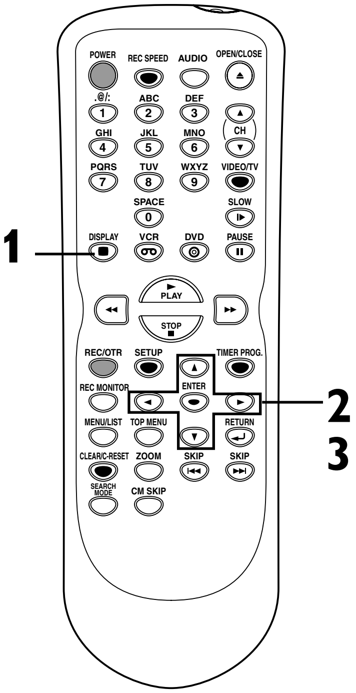

T 1 C 1 00:00:00
DVD-Video
NR
✔OFF
Type 1
Type 2
▶

3

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

Your setting will be activated.

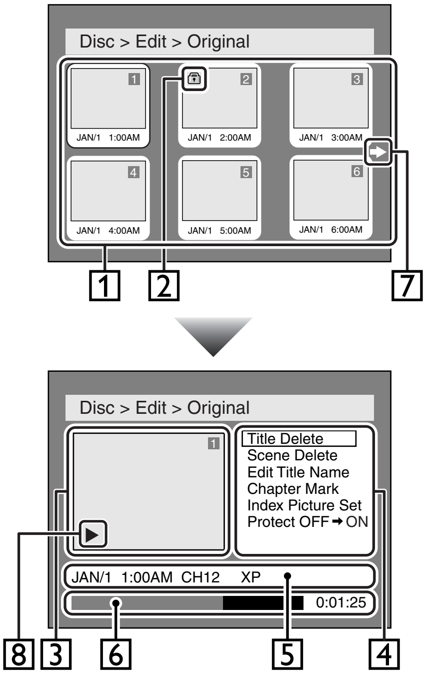
This function reduces noise in the playback picture. When playing back discs recorded in long time mode such as SLP or SEP mode, select "Type 1" or "Type 2". ("Type 2" is more effective.) When playing back discs with a few noises such as DVD-Video discs, select "OFF".


1
2
3
POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/: 1
ABC 2
DEF 3
CH
GHI 4
JKL 5
MNO 6
PQRS 7
TUV 8
WXYZ 9
VIDEO/TV
SPACE 0
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP

Information on disc 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.


Disc > Edit > Original
1
2
3
4
5
6
JAN/1 1:00AM
JAN/1 2:00AM
JAN/1 3:00AM
JAN/1 4:00AM
JAN/1 5:00AM
JAN/1 6:00AM
1
2
7
Disc > Edit > Original
1
Title Delete
Scene Delete
Edit Title Name
Chapter Mark
Index Picture Set
Protect OFF ➔ ON
JAN/1 1:00AM CH12 XP
0:01:25
8
3
6
5
4

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

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)

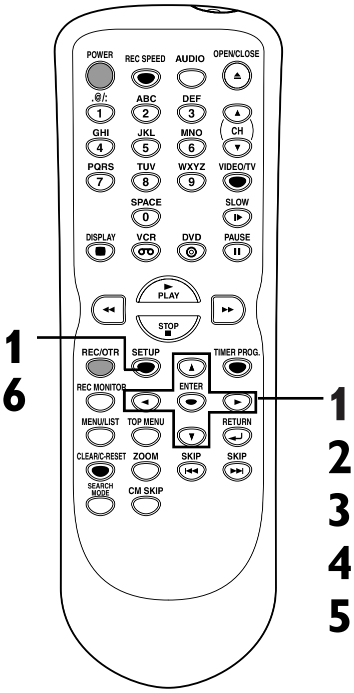
Editing DVD-RW discs in Video mode

Deleting titles

Video DVD-RW

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.

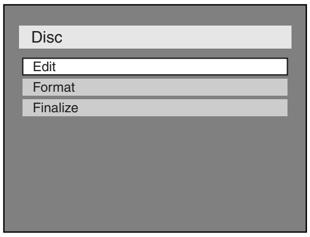
First: DVD



1

Press SETUP button. Select “DISC” using ◄ / ► buttons, then press ENTER button.

DISC menu will appear.



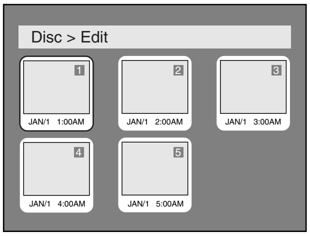
Disc
Edit
Format
Finalize

2

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

Titlelist will appear.

Screen:

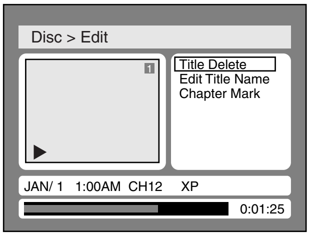


Disc > Edit
1 JAN/1 1:00AM
2 JAN/1 2:00AM
3 JAN/1 3:00AM
4 JAN/1 4:00AM
5 JAN/1 5:00AM

3

Select a desired title using ▲ / ▼ / ◄ / ► buttons, then press ENTER button.

Edit menu will appear.

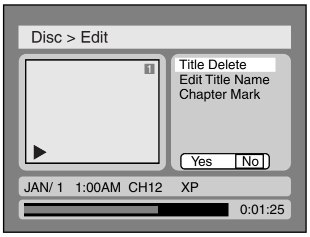


Disc > Edit
Title Delete
Edit Title Name
Chapter Mark
JAN/ 1 1:00AM CH12 XP
0:01:25

4

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

Option window will appear.

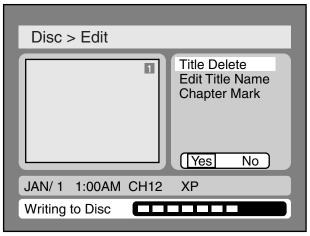


Disc > Edit
Title Delete
Edit Title Name
Chapter Mark
Yes No
JAN/ 1 1:00AM CH12 XP
0:01:25

5

Select “Yes” using ◄ / ► buttons, then press ENTER button.

Title will be deleted.



Disc > Edit
Title Delete
Edit Title Name
Chapter Mark
Yes No
JAN/ 1 1:00AM CH12 XP
Writing to Disc

This operation may take a while to be completed.

6

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

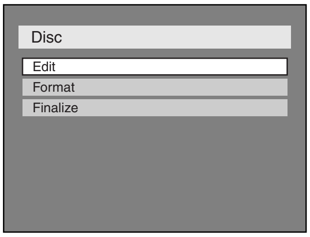
Video DVD-RW

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: DVD

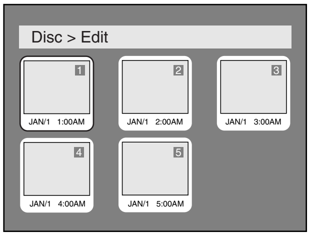
1

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


Disc
Edit
Format
Finalize

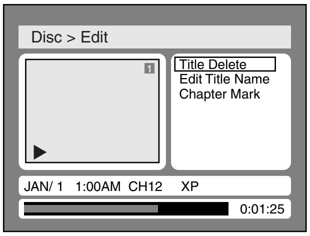
2

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


Disc > Edit
1
JAN/1 1:00AM
2
JAN/1 2:00AM
3
JAN/1 3:00AM
4
JAN/1 4:00AM
5
JAN/1 5:00AM

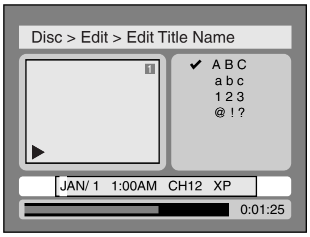
3

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


Disc > Edit
1
Title Delete
Edit Title Name
Chapter Mark
JAN/ 1 1:00AM CH12 XP
0:01:25

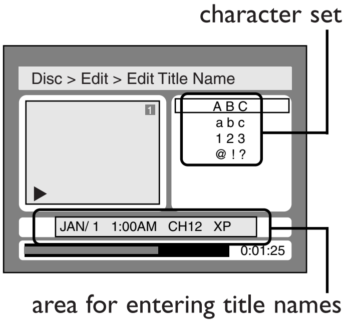
4

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

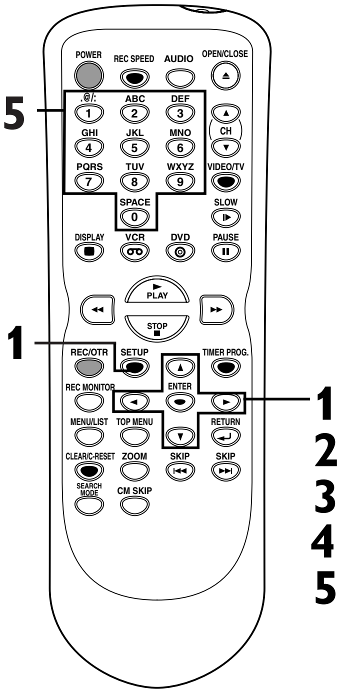

Disc > Edit > Edit Title Name
1
✔ A B C
a b c
1 2 3
@ ! ?
JAN/ 1 1:00AM CH12 XP
0:01:25

5

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

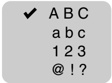

character set
Disc > Edit > Edit Title Name
1
A B C
a b c
1 2 3
@ ! ?
JAN/ 1 1:00AM CH12 XP
0:01:25
area for entering title names

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


5
1
1
2
3
4
5
POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/:
ABC
DEF
GHI
JKL
MNO
PQRS
TUV
WXYZ
CH
VIDEO/TV
SPACE
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP

[Guide to edit title name]

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



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

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

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

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

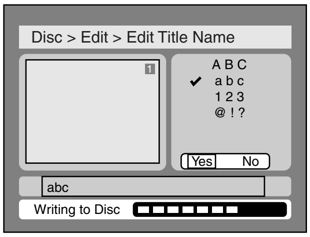
- To delete letters, press CLEAR/C-RESET button repeatedly. Holding CLEAR/C-CRESET button to delete all letters.
- To go on to the next entering area for letters, press ▶ button.
- You can enter up to 30 letters.

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.



Disc > Edit > Edit Title Name

abc

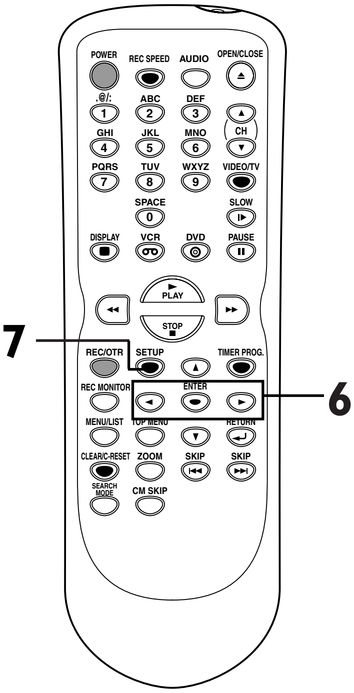
Writing to Disc

1
A B C
✔ a b c
1 2 3
@ ! ?
Yes
No

This operation may take a while to be completed.

7

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



7
6
POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/:
1
ABC
2
DEF
3
CH
GHI
4
JKL
5
MNO
6
PQRS
7
TUV
8
WXYZ
9
VIDEO/TV
SPACE
0
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP

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

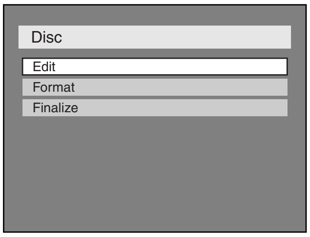
Setting or clearing chapter markers

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.

First:

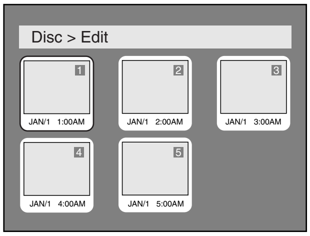
1

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


Disc
Edit
Format
Finalize

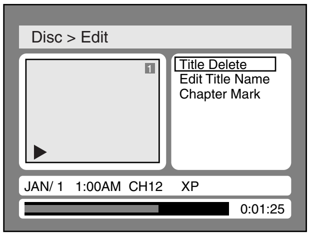
2

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


Disc > Edit
1
JAN/1 1:00AM
2
JAN/1 2:00AM
3
JAN/1 3:00AM
4
JAN/1 4:00AM
5
JAN/1 5:00AM

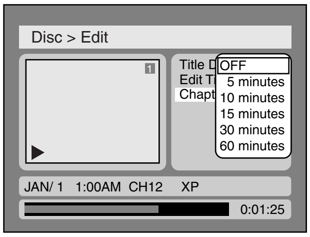
3

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


Disc > Edit
1
Title Delete
Edit Title Name
Chapter Mark
JAN/ 1 1:00AM CH12 XP
0:01:25

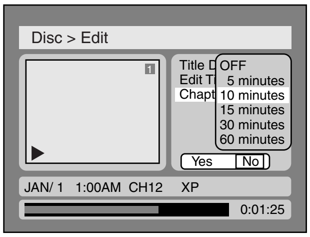
4

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


Disc > Edit
1
OFF
5 minutes
10 minutes
15 minutes
30 minutes
60 minutes
JAN/ 1 1:00AM CH12 XP
0:01:25

5

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

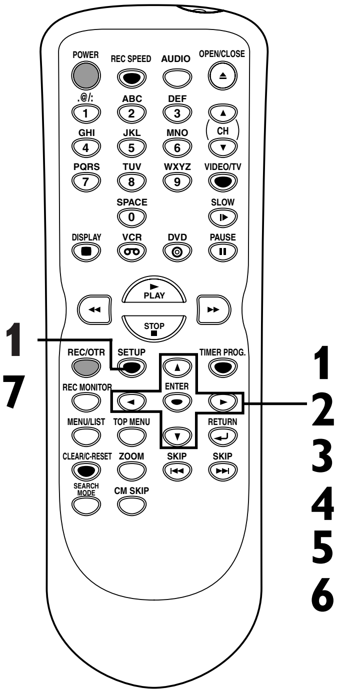

Disc > Edit
1
OFF
5 minutes
10 minutes
15 minutes
30 minutes
60 minutes
Yes
No
JAN/ 1 1:00AM CH12 XP
0:01:25

6

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

7

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


POWER
REC SPEED
AUDIO
OPEN/CLOSE
SETUP
ENTER
REC/OTR
REC MONITOR
MENU/LIST
TOP MENU
RETURN
PLAY
STOP
1
7
1
2
3
4
5
6

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 DVD-RW discs in VR mode (Original)

Deleting titles

VR DVD-RW

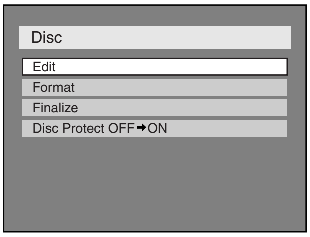
When a title is deleted from an original list in VR mode, the disc space to record will be increased. Be advised that the titles once deleted cannot be brought back to the disc.

First: DVD

1

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

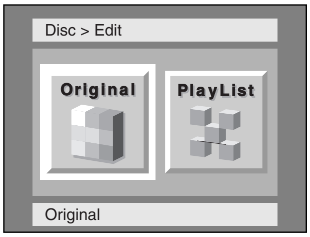
DISC menu will appear.


Disc
Edit
Format
Finalize
Disc Protect OFF➔ON

2

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

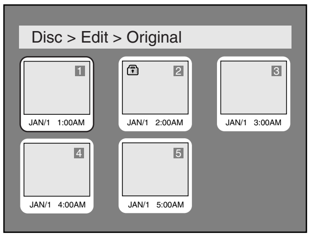
Original/PlayList menu will appear.


Disc > Edit
Original
PlayList
Original

3

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

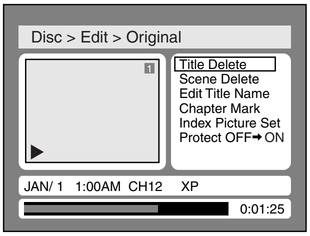
Original list will appear.


Disc > Edit > Original
1
JAN/1 1:00AM
2
JAN/1 2:00AM
3
JAN/1 3:00AM
4
JAN/1 4:00AM
5
JAN/1 5:00AM

4

Select a desired title using ▲ / ▼ / ◄ / ► buttons, then press ENTER button.

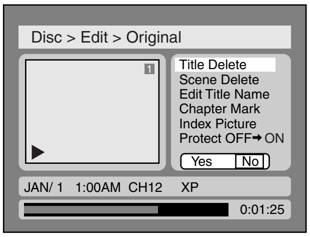
Original menu will appear.


Disc > Edit > Original
1
Title Delete
Scene Delete
Edit Title Name
Chapter Mark
Index Picture Set
Protect OFF➔ON
JAN/ 1 1:00AM CH12 XP
0:01:25

5

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

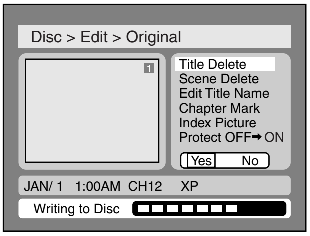
Option window will appear.


Disc > Edit > Original
1
Title Delete
Scene Delete
Edit Title Name
Chapter Mark
Index Picture
Protect OFF➔ON
Yes
No
JAN/ 1 1:00AM CH12 XP
0:01:25

6

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

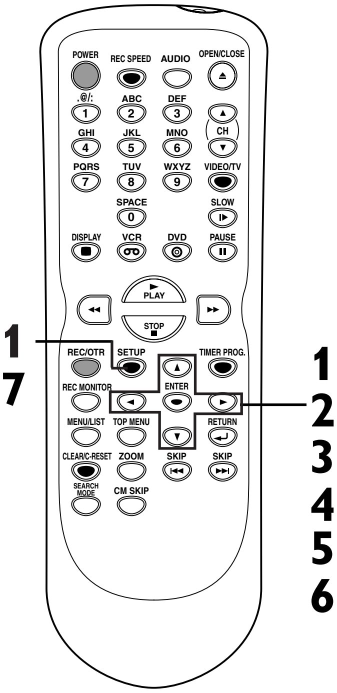
Title will be deleted.


Disc > Edit > Original
1
Title Delete
Scene Delete
Edit Title Name
Chapter Mark
Index Picture
Protect OFF➔ON
Yes
No
JAN/ 1 1:00AM CH12 XP
Writing to Disc

This operation may take a while to be completed.

7

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


POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/: 1
ABC 2
DEF 3
GHI 4
JKL 5
MNO 6
CH
PQRS 7
TUV 8
WXYZ 9
VIDEO/TV
SPACE 0
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
1
7
1
2
3
4
5
6

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

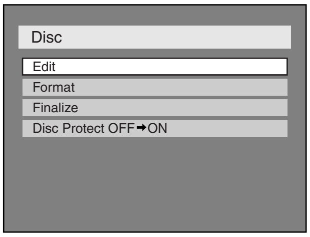
Deleting parts of titles

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:

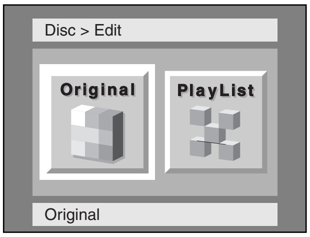
1

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


Disc
Edit
Format
Finalize
Disc Protect OFF➔ON

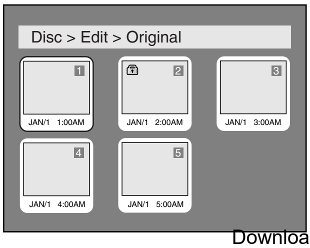
2

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


Disc > Edit
Original
PlayList
Original

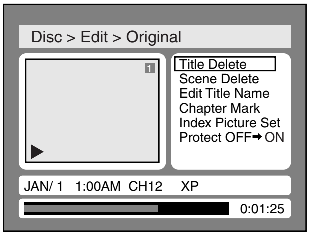
3

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


Disc > Edit > Original
1
JAN/1 1:00AM
2
JAN/1 2:00AM
3
JAN/1 3:00AM
4
JAN/1 4:00AM
5
JAN/1 5:00AM

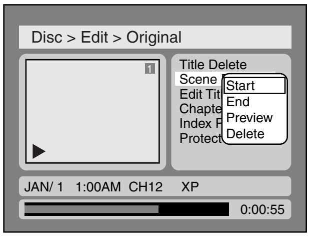
4

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


Disc > Edit > Original
1
Title Delete
Scene Delete
Edit Title Name
Chapter Mark
Index Picture Set
Protect OFF➔ON
JAN/ 1 1:00AM CH12 XP
0:01:25

5

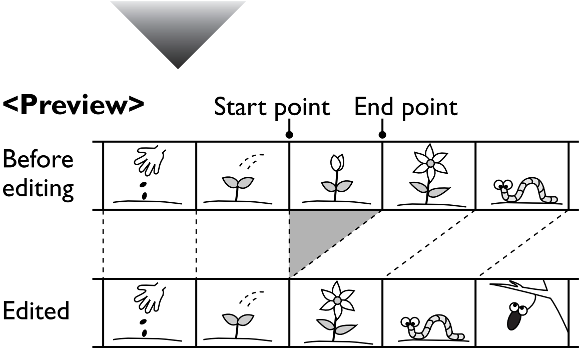
Select "Scene Delete" using ▲ / ▼ buttons, then press ENTER button.
Option window will appear.

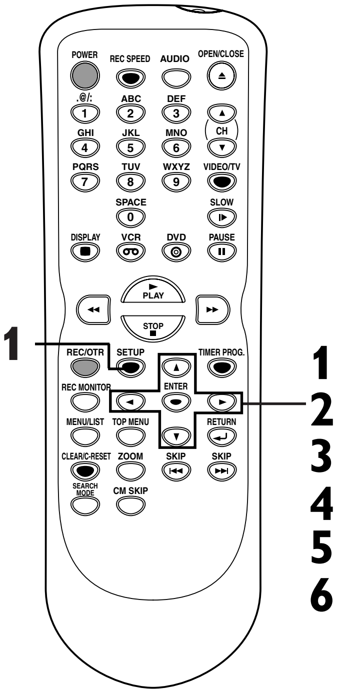

Disc > Edit > Original
1
Title Delete
Scene
Edit Tit
Chapte
Index P
Protect
Start
End
Preview
Delete
JAN/ 1 1:00AM CH12 XP
0:00:55

6

Press ENTER button to decide a start point, then press ENTER button to decide an end point.
A cursor will move to "Preview."
You can check a preview.

<Preview>


Start point
End point
Before editing
Edited

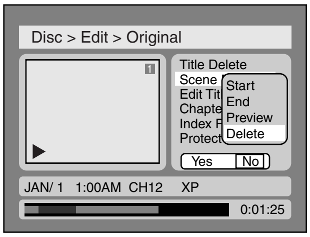

1
1
2
3
4
5
6
POWER
REC SPEED
AUDIO
OPEN/CLOSE
SETUP
ENTER
RETURN

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

7

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

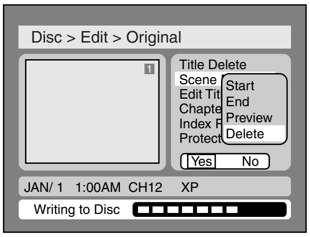
Option window will appear.


Disc > Edit > Original
1
Title Delete
Scene
Edit Tit
Chapte
Index F
Protect
Start
End
Preview
Delete
Yes
No
JAN/ 1 1:00AM CH12 XP
0:01:25

8

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

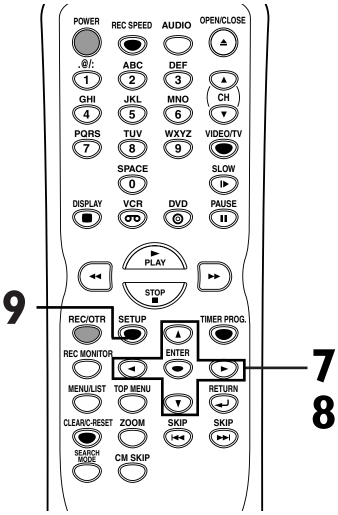
Part of a title will be deleted.


Disc > Edit > Original
1
Title Delete
Scene
Edit Tit
Chapte
Index F
Protect
Start
End
Preview
Delete
Yes
No
JAN/ 1 1:00AM CH12 XP
Writing to Disc

This operation may take a while to be completed.

9

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


POWER
REC SPEED
AUDIO
OPEN/CLOSE
SETUP
ENTER
9
7
8

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

VR DVD-RW

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

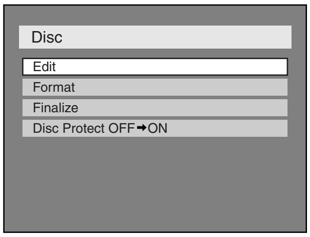
The names you put on the titles will be displayed on a titlelist.

First: DVD

1

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

DISC menu will appear.

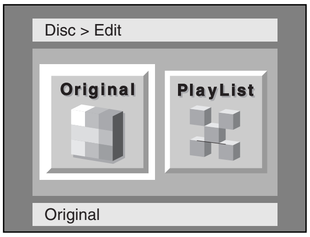

Disc
Edit
Format
Finalize
Disc Protect OFF➔ON

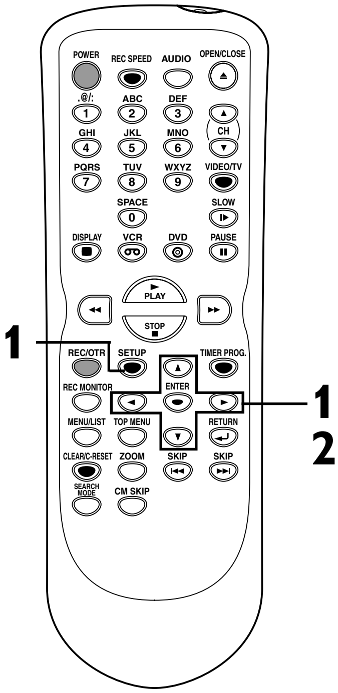
2

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

Original/PlayList menu will appear.

Screen:


Disc > Edit
Original
PlayList
Original


POWER
REC SPEED
AUDIO
OPEN/CLOSE
SETUP
ENTER
1
1
2

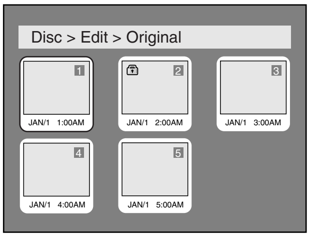
Instructions continue to the next page.

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

3

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

Original list will appear.



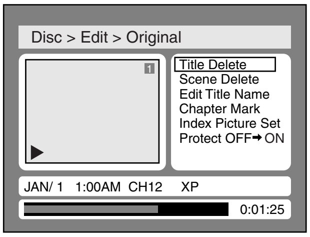
Disc > Edit > Original

1
JAN/1 1:00AM
2
JAN/1 2:00AM
3
JAN/1 3:00AM
4
JAN/1 4:00AM
5
JAN/1 5:00AM

4

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

Original menu will appear.



Disc > Edit > Original

1
Title Delete
Scene Delete
Edit Title Name
Chapter Mark
Index Picture Set
Protect OFF➡ON

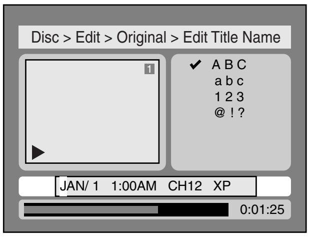
JAN/ 1 1:00AM CH12 XP

0:01:25

5

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

A window for entering a title name will appear.



Disc > Edit > Original > Edit Title Name

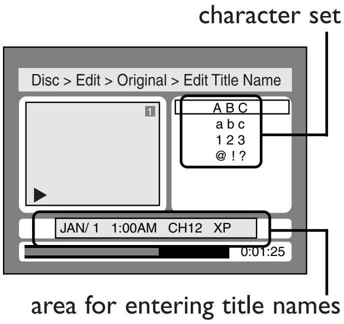
1
✔ A B C
a b c
1 2 3
@ ! ?

JAN/ 1 1:00AM CH12 XP

0:01:25

6

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



character set
1
A B C
a b c
1 2 3
@ ! ?
area for entering title names

Disc > Edit > Original > Edit Title Name

JAN/ 1 1:00AM CH12 XP

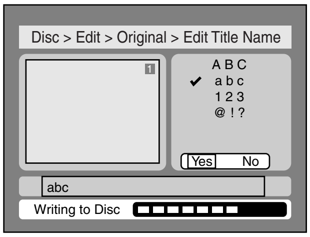
0:01:25

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.



Disc > Edit > Original > Edit Title Name

1
A B C
✔ a b c
1 2 3
@ ! ?
Yes
No

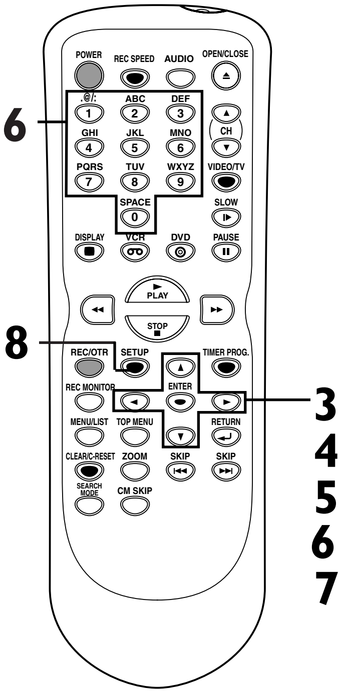
abc

Writing to Disc

This operation may take a while to be completed.

8

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



6
8
3
4
5
6
7
POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/:
ABC
DEF
GHI
JKL
MNO
PQRS
TUV
WXYZ
CH
VIDEO/TV
SPACE
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP

[Guide to edit title name]

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

✔ A B C
a b c
1 2 3
@ ! ?

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

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

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

*2 Press 2 to 9 buttons, character set will be changed to the previous input 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)

Setting or clearing chapter markers

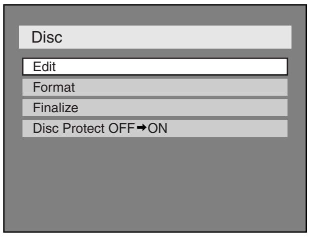
VR DVD-RW

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: DVD

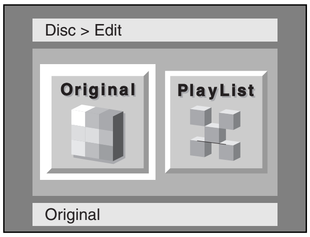
1

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


Disc
Edit
Format
Finalize
Disc Protect OFF➜ON

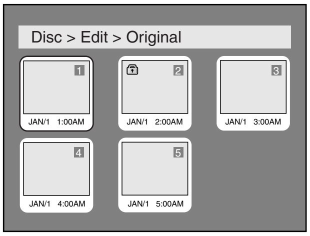
2

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


Disc > Edit
Original
PlayList
Original

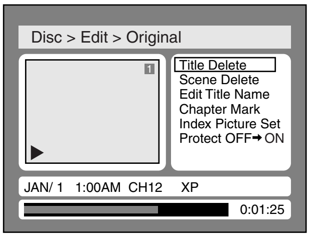
3

Select "Original" using ◄ / ► buttons, then press ENTER button.
Original list will appear.


Disc > Edit > Original
1
JAN/1 1:00AM
2
JAN/1 2:00AM
3
JAN/1 3:00AM
4
JAN/1 4:00AM
5
JAN/1 5:00AM

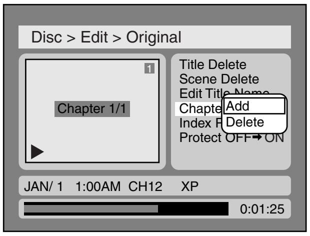
4

Select a desired title using ▲ / ▼ / ◄ / ► buttons, then press ENTER button.
Original menu will appear.


Disc > Edit > Original
1
Title Delete
Scene Delete
Edit Title Name
Chapter Mark
Index Picture Set
Protect OFF➜ON
JAN/ 1 1:00AM CH12 XP
0:01:25

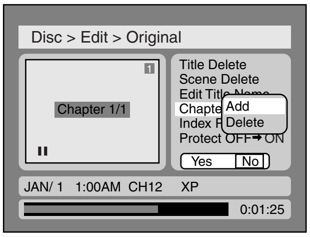
5

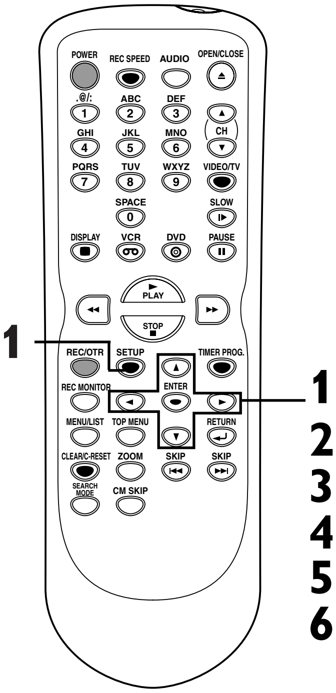
Select "Chapter Mark" using ▲ / ▼ buttons, then press ENTER button.
Option window will appear.


Disc > Edit > Original
1
Chapter 1/1
Title Delete
Scene Delete
Edit Title Name
Chapte
Add
Index P
Delete
Protect OFF➜ON
JAN/ 1 1:00AM CH12 XP
0:01:25

6

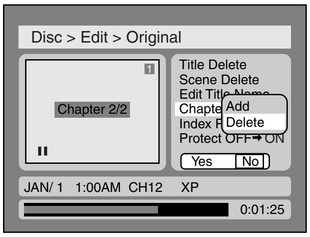
Select "Add" or "Delete" using ▲ / ▼ buttons, then press ENTER button.
Option window will appear.
<Add>:


Disc > Edit > Original
1
Chapter 1/1
Title Delete
Scene Delete
Edit Title Name
Chapte
Add
Index P
Delete
Protect OFF➜ON
Yes
No
JAN/ 1 1:00AM CH12 XP
0:01:25


POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/: 1
ABC 2
DEF 3
GHI 4
JKL 5
MNO 6
CH
PQRS 7
TUV 8
WXYZ 9
VIDEO/TV
SPACE 0
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
1
1
2
3
4
5
6

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

<Delete>:


Disc > Edit > Original
1
Chapter 2/2
Title Delete
Scene Delete
Edit Title Name
Chapter Mark
Index Picture
Protect OFF➔ON
Add
Delete
Yes
No
JAN/ 1 1:00AM CH12 XP
0:01:25

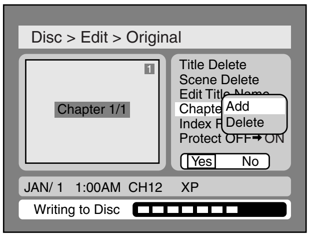
- You cannot delete the first chapter marker of each title.

7

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

<Add>:

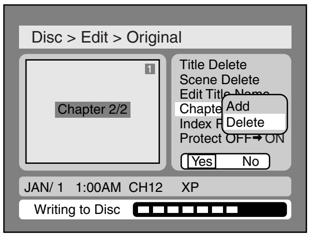
A chapter marker will be added.


Disc > Edit > Original
1
Chapter 1/1
Title Delete
Scene Delete
Edit Title Name
Chapter Mark
Index Picture
Protect OFF➔ON
Add
Delete
Yes
No
JAN/ 1 1:00AM CH12 XP
Writing to Disc

This operation may take a while to be completed.

<Delete>:

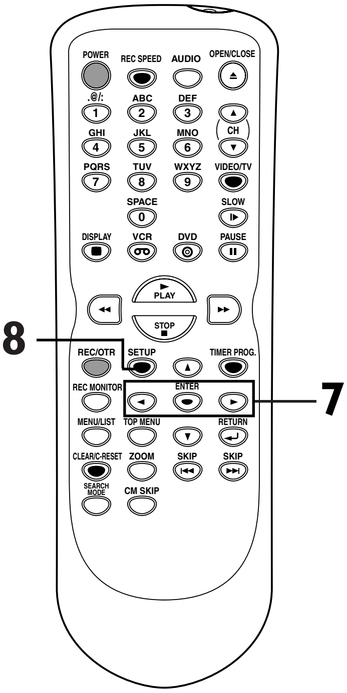
The chapter marker which you selected will be deleted.


Disc > Edit > Original
1
Chapter 2/2
Title Delete
Scene Delete
Edit Title Name
Chapter Mark
Index Picture
Protect OFF➔ON
Add
Delete
Yes
No
JAN/ 1 1:00AM CH12 XP
Writing to Disc

This operation may take a while to be completed.

8

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


8
7
POWER
REC SPEED
AUDIO
OPEN/CLOSE
SETUP
ENTER
REC/OTR
TIMER PROG.

Setting pictures for thumbnails

VR DVD-RW

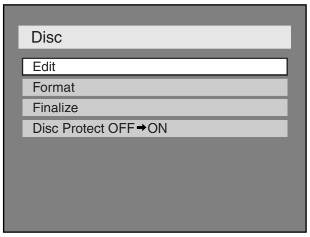
You can set a picture to each title for a thumbnail. It helps you to remember the contents of the title you are playing. The beginning picture has been selected as the default.

First:

1

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

DISC menu will appear.

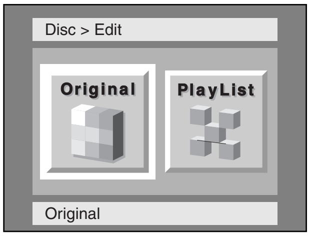

Disc
Edit
Format
Finalize
Disc Protect OFF➔ON

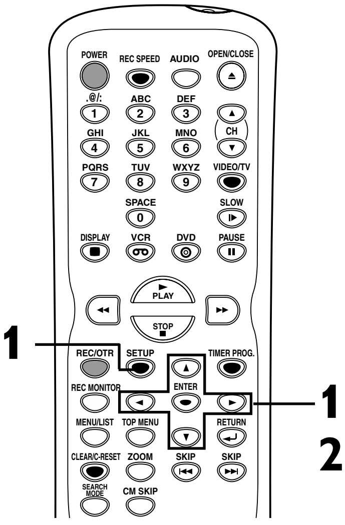
2

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

Original/PlayList menu will appear.

Screen:


Disc > Edit
Original
PlayList
Original


1
1
2
SETUP
ENTER

Note

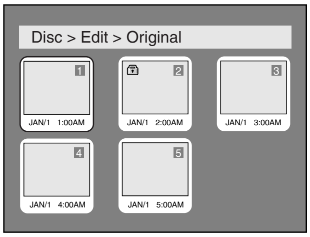
- If a selected picture for a thumbnail is deleted by deleting a part of a title, a default picture will be selected.

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

3

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

Original list will appear.



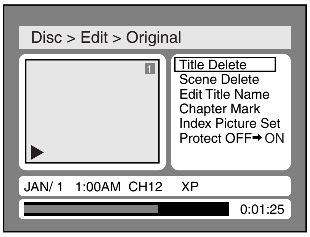
Disc > Edit > Original

1
JAN/1 1:00AM
2
JAN/1 2:00AM
3
JAN/1 3:00AM
4
JAN/1 4:00AM
5
JAN/1 5:00AM

4

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

Original menu will appear.



Disc > Edit > Original

1
Title Delete
Scene Delete
Edit Title Name
Chapter Mark
Index Picture Set
Protect OFF➔ON

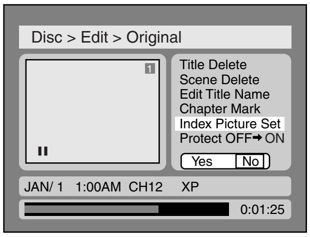
JAN/ 1 1:00AM CH12 XP

0:01:25

5

Select "Index Picture Set" using ▲ / ▼ buttons. Use SKIP I◀◀ / ▶▶I, ◀◀, ▶▶, PLAY ▶ and PAUSE ❚❚ buttons to decide the picture you want to select as a thumbnail. Then press ENTER button.

Option window will appear.



Disc > Edit > Original

1
Title Delete
Scene Delete
Edit Title Name
Chapter Mark
Index Picture Set
Protect OFF➔ON
Yes
No

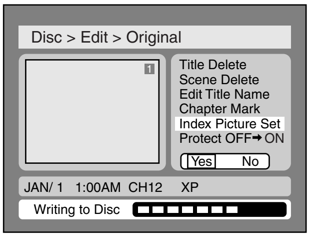
JAN/ 1 1:00AM CH12 XP

0:01:25

6

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

A picture for thumbnail will be set.



Disc > Edit > Original

1
Title Delete
Scene Delete
Edit Title Name
Chapter Mark
Index Picture Set
Protect OFF➔ON
Yes
No

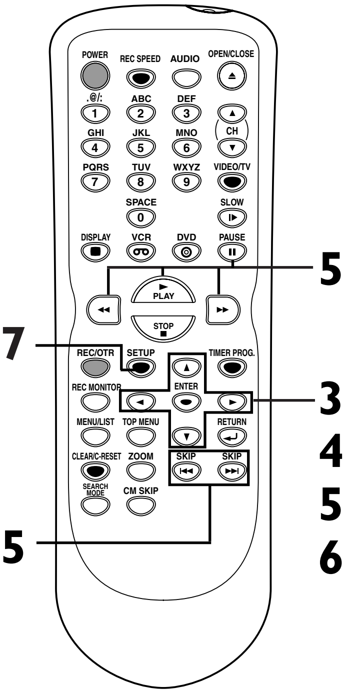
JAN/ 1 1:00AM CH12 XP

Writing to Disc

This operation may take a while to be completed.

7

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



POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/:
ABC
DEF
1
2
3
GHI
JKL
MNO
CH
4
5
6
PQRS
TUV
WXYZ
VIDEO/TV
7
8
9
SPACE
SLOW
0
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
5
7
3
4
5
6
5

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

Setting titles to protect

VR DVD-RW

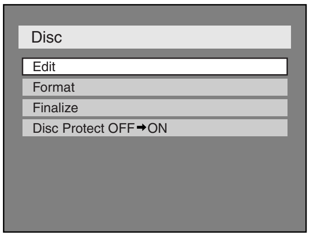
To prevent accidental editing or erasing the titles, you can protect them from the original menu.

First: DVD

1

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

DISC menu will appear.



Disc

Edit

Format

Finalize

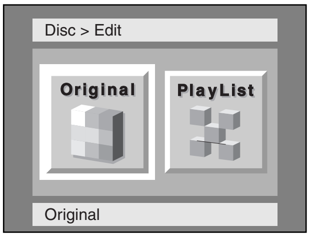
Disc Protect OFF➔ON

2

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

Original/PlayList menu will appear.

Screen:



Disc > Edit

Original

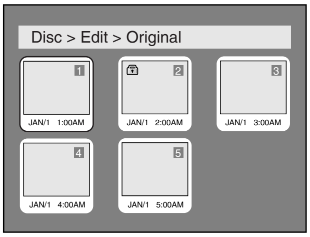
PlayList

Original

3

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

Original list will appear.



Disc > Edit > Original

1 JAN/1 1:00AM

2 JAN/1 2:00AM

3 JAN/1 3:00AM

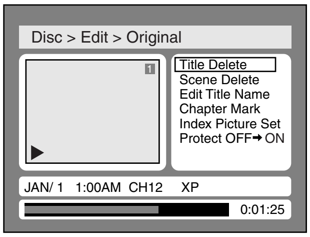
4 JAN/1 4:00AM

5 JAN/1 5:00AM

4

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

Original menu will appear.



Disc > Edit > Original

Title Delete

Scene Delete

Edit Title Name

Chapter Mark

Index Picture Set

Protect OFF➔ON

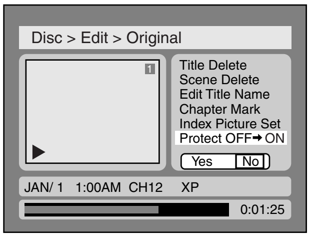
JAN/ 1 1:00AM CH12 XP

0:01:25

5

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

Option window will appear.



Disc > Edit > Original

Title Delete

Scene Delete

Edit Title Name

Chapter Mark

Index Picture Set

Protect OFF➔ON

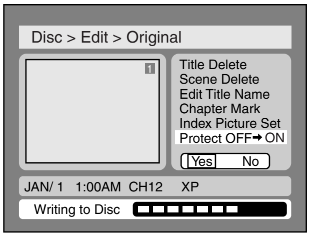
Yes No

JAN/ 1 1:00AM CH12 XP

0:01:25

6

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



Disc > Edit > Original

Title Delete

Scene Delete

Edit Title Name

Chapter Mark

Index Picture Set

Protect OFF➔ON

Yes No

JAN/ 1 1:00AM CH12 XP

Writing to Disc

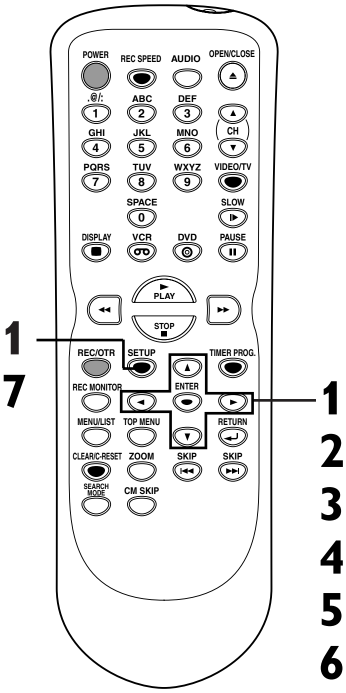
This operation may take a while to be completed.

7

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)

Releasing titles from protecting

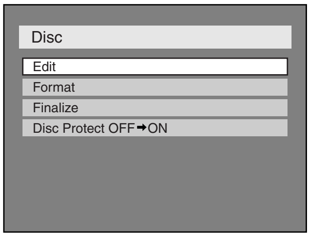
You are allowed to release the titles protecting feature once protected.

First:

1

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

DISC menu will appear.

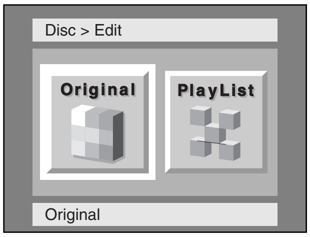

Disc
Edit
Format
Finalize
Disc Protect OFF➔ON

2

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

Original/PlayList menu will appear.

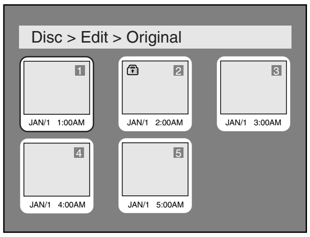
Screen:


Disc > Edit
Original
PlayList
Original

3

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

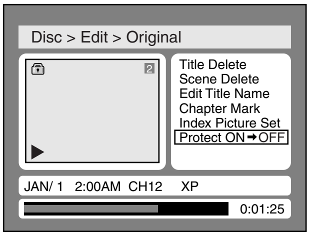
Original list will appear.


Disc > Edit > Original
1
2
3
JAN/1 1:00AM
JAN/1 2:00AM
JAN/1 3:00AM
4
5
JAN/1 4:00AM
JAN/1 5:00AM

4

Select a desired title using ▲ / ▼ / ◄ / ► buttons, then press ENTER button.

Original menu will appear.

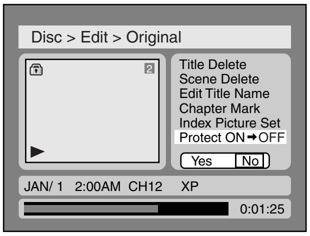

Disc > Edit > Original
2
Title Delete
Scene Delete
Edit Title Name
Chapter Mark
Index Picture Set
Protect ON➔OFF
JAN/ 1 2:00AM CH12 XP
0:01:25

"Protect ON → OFF" is selected.

5

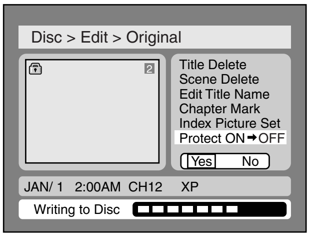
Press ENTER button.

Option window will appear.


Disc > Edit > Original
2
Title Delete
Scene Delete
Edit Title Name
Chapter Mark
Index Picture Set
Protect ON➔OFF
Yes
No
JAN/ 1 2:00AM CH12 XP
0:01:25

6

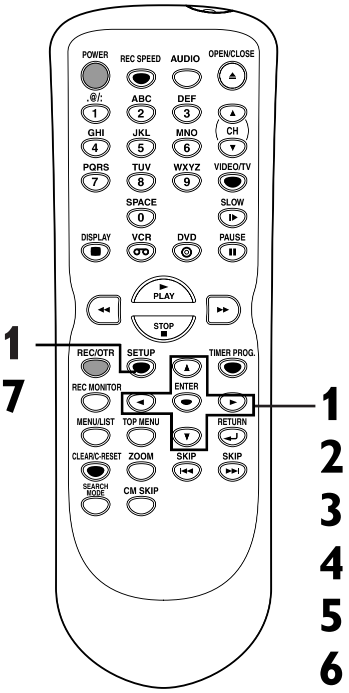
Select "Yes" using ◄ / ► buttons, then press ENTER button.


Disc > Edit > Original
2
Title Delete
Scene Delete
Edit Title Name
Chapter Mark
Index Picture Set
Protect ON➔OFF
Yes
No
JAN/ 1 2:00AM CH12 XP
Writing to Disc

This operation may take a while to be completed.

7

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


POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/:
ABC
DEF
1
2
3
GHI
JKL
MNO
CH
4
5
6
PQRS
TUV
WXYZ
VIDEO/TV
7
8
9
SPACE
SLOW
0
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
1
7
1
2
3
4
5
6

Editing DVD-RW discs in VR mode (Playlist)

Deleting titles

VR DVD-RW

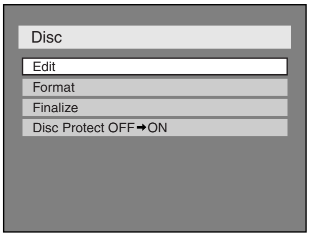
In VR mode, even when a title is deleted from a Playlist, the original title will remain in an Original list. The disc space to record will not be increased.

First: DVD

1

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

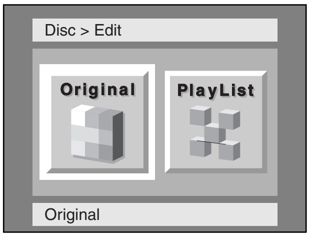
DISC menu will appear.


Disc
Edit
Format
Finalize
Disc Protect OFF➜ON

2

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

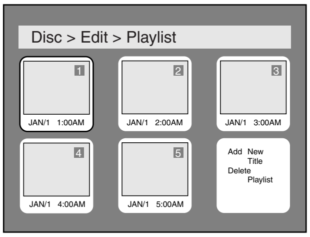
Original/PlayList menu will appear.


Disc > Edit
Original
PlayList
Original

3

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

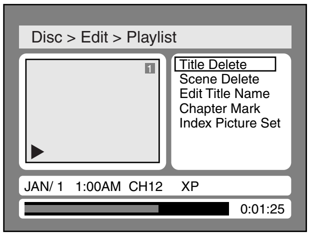
Playlist will appear.


Disc > Edit > Playlist
1
JAN/1 1:00AM
2
JAN/1 2:00AM
3
JAN/1 3:00AM
4
JAN/1 4:00AM
5
JAN/1 5:00AM
Add New Title
Delete Playlist

4

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

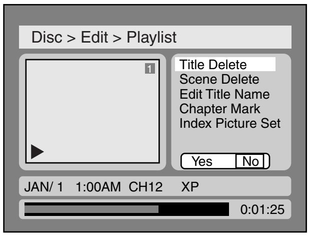
Playlist menu will appear.


Disc > Edit > Playlist
1
Title Delete
Scene Delete
Edit Title Name
Chapter Mark
Index Picture Set
JAN/ 1 1:00AM CH12 XP
0:01:25

5

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

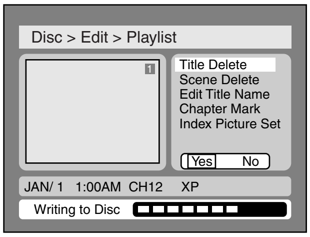
Option window will appear.


Disc > Edit > Playlist
1
Title Delete
Scene Delete
Edit Title Name
Chapter Mark
Index Picture Set
Yes
No
JAN/ 1 1:00AM CH12 XP
0:01:25

6

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

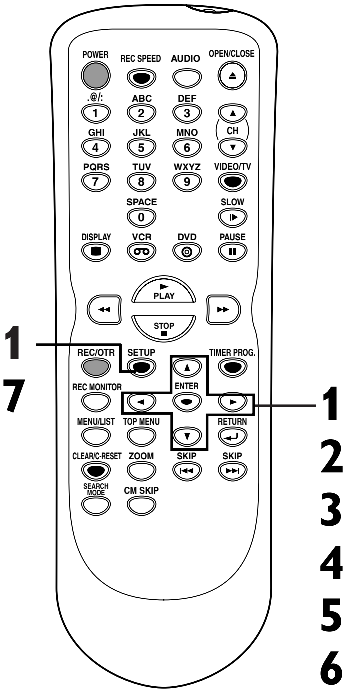
Title will be deleted.


Disc > Edit > Playlist
1
Title Delete
Scene Delete
Edit Title Name
Chapter Mark
Index Picture Set
Yes
No
JAN/ 1 1:00AM CH12 XP
Writing to Disc

This operation may take a while to be completed.

7

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


POWER
REC SPEED
AUDIO
OPEN/CLOSE
SETUP
ENTER
REC/OTR
TIMER PROG.
REC MONITOR
MENU/LIST
TOP MENU
RETURN
PLAY
STOP
1
7
1
2
3
4
5
6

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

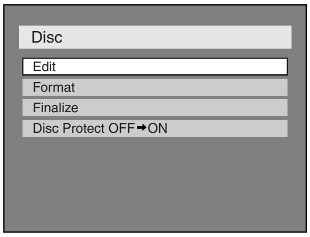
Deleting parts of titles

You can delete part of a title. Even when a title is deleted from the playlist, the original title will remain.
The disc space to record will not be increased.

First:

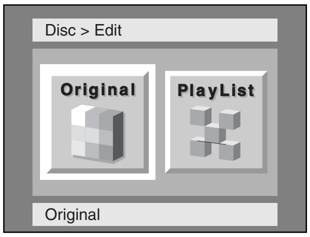
1

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


Disc
Edit
Format
Finalize
Disc Protect OFF➔ON

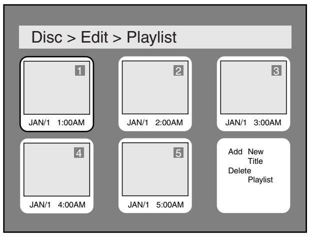
2

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


Disc > Edit
Original
PlayList
Original

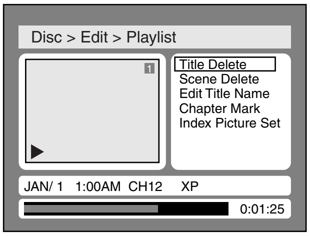
3

Select "PlayList" using ◄ / ► buttons, then press ENTER button.
Playlist will appear.


Disc > Edit > Playlist
1 JAN/1 1:00AM
2 JAN/1 2:00AM
3 JAN/1 3:00AM
4 JAN/1 4:00AM
5 JAN/1 5:00AM
Add New Title
Delete Playlist

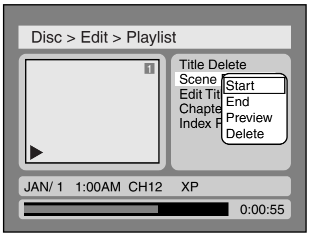
4

Select a desired title using ▲ / ▼ / ◄ / ► buttons, then press ENTER button.
Playlist menu will appear.


Disc > Edit > Playlist
Title Delete
Scene Delete
Edit Title Name
Chapter Mark
Index Picture Set
JAN/ 1 1:00AM CH12 XP
0:01:25

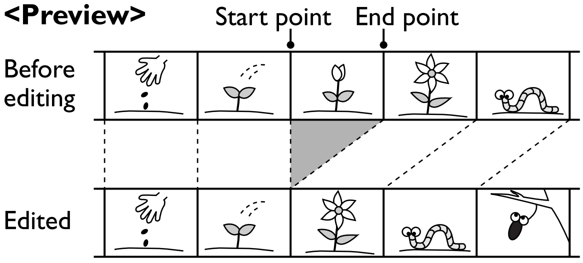
5

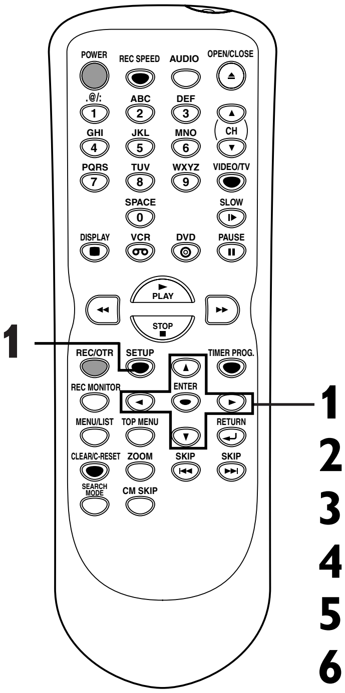
Select "Scene Delete" using ▲ / ▼ buttons, then press ENTER button.
Option window will appear.


Disc > Edit > Playlist
Title Delete
Scene
Edit Tit
Chapte
Index P
Start
End
Preview
Delete
JAN/ 1 1:00AM CH12 XP
0:00:55

6

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.





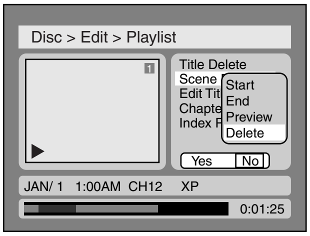
Instructions continue to the next page.

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

7

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

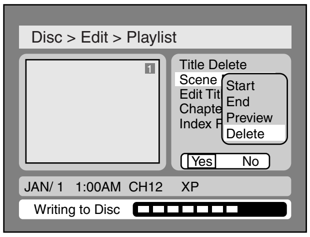
Option window will appear.


Disc > Edit > Playlist
1
Title Delete
Scene
Edit Tit
Chapte
Index F
Start
End
Preview
Delete
Yes
No
JAN/ 1 1:00AM CH12 XP
0:01:25

8

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

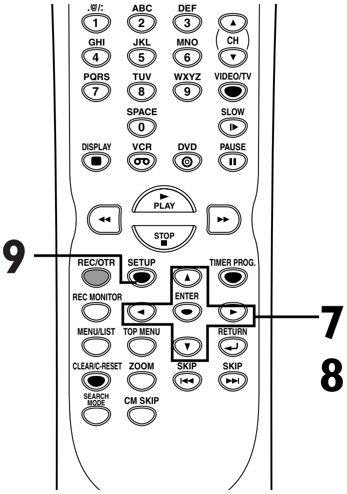
Part of a title will be deleted.


Disc > Edit > Playlist
1
Title Delete
Scene
Edit Tit
Chapte
Index F
Start
End
Preview
Delete
Yes
No
JAN/ 1 1:00AM CH12 XP
Writing to Disc

This operation may take a while to be completed.

9

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


9
7
8
.@/:
ABC
DEF
GHI
JKL
MNO
CH
PQRS
TUV
WXYZ
VIDEO/TV
SPACE
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP

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

VR DVD-RW

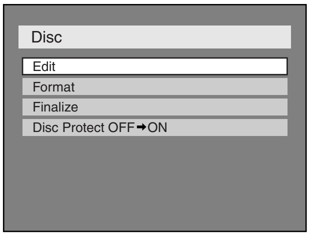
You can put title names on the titles and change the names from this menu.
The names you put on the titles will be displayed on a titlelist.

First:

1

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

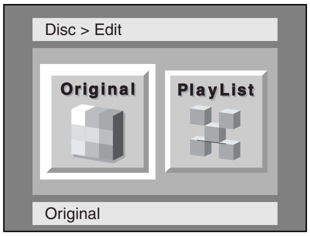
DISC menu will appear.


Disc
Edit
Format
Finalize
Disc Protect OFF➔ON

2

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

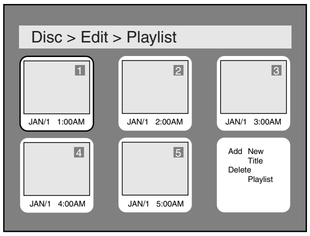
Original/PlayList menu will appear.
Screen:

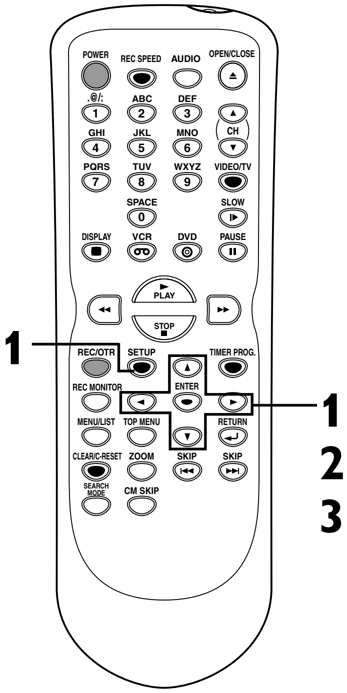

Disc > Edit
Original
PlayList
Original

3

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

Playlist will appear.


Disc > Edit > Playlist
1
JAN/1 1:00AM
2
JAN/1 2:00AM
3
JAN/1 3:00AM
4
JAN/1 4:00AM
5
JAN/1 5:00AM
Add New Title
Delete Playlist

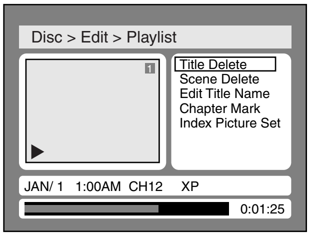

1
1
2
3
POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/:
ABC
DEF
GHI
JKL
MNO
CH
PQRS
TUV
WXYZ
VIDEO/TV
SPACE
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP

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

4

Select a desired title using ▲ / ▼ / ◄ / ► buttons, then press ENTER button.

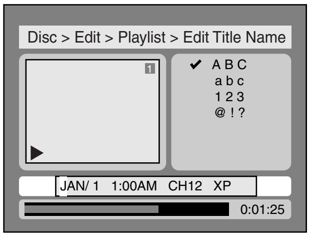
Playlist menu will appear.


Disc > Edit > Playlist
1
Title Delete
Scene Delete
Edit Title Name
Chapter Mark
Index Picture Set
JAN/ 1 1:00AM CH12 XP
0:01:25

5

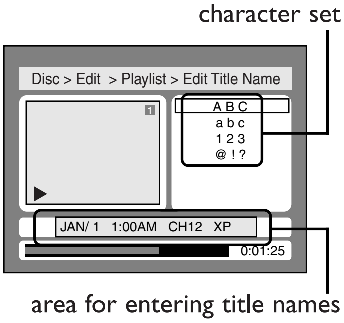
Select "Edit Title Name" using ▲ / ▼ buttons, then press ENTER button.

A window for entering a title name will appear.


Disc > Edit > Playlist > Edit Title Name
1
✔ A B C
a b c
1 2 3
@ ! ?
JAN/ 1 1:00AM CH12 XP
0:01:25

6

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

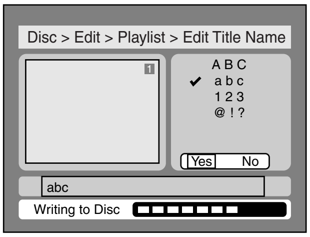

character set
Disc > Edit > Playlist > Edit Title Name
1
A B C
a b c
1 2 3
@ ! ?
JAN/ 1 1:00AM CH12 XP
0:01:25
area for entering title names

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

7

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

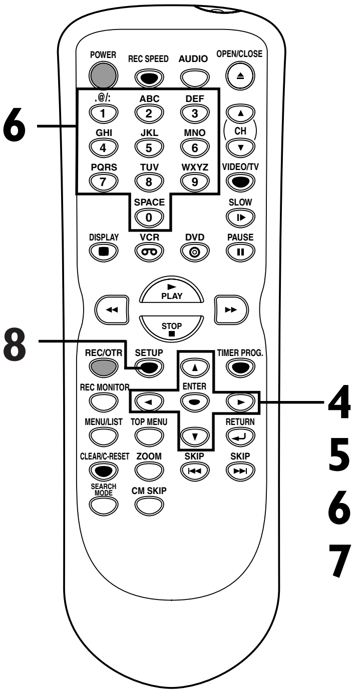
The name you entered will be activated for the title.


Disc > Edit > Playlist > Edit Title Name
1
A B C
✔ a b c
1 2 3
@ ! ?
Yes
No
abc
Writing to Disc

This operation may take a while to be completed.

8

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


6
8
4
5
6
7
POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/:
ABC
DEF
1
2
3
GHI
JKL
MNO
4
5
6
CH
PQRS
TUV
WXYZ
VIDEO/TV
7
8
9
SPACE
0
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP

[Guide to edit title name]

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

✔ A B C
a b c
1 2 3
@ ! ?

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

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

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

*2 Press 2 to 9 buttons, character set will be changed to the previous input 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 (Playlist) (cont'd)

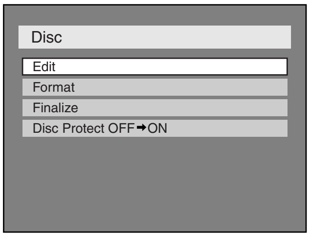
Setting or clearing chapter markers

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:

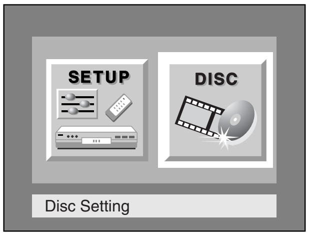
1

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


Disc
Edit
Format
Finalize
Disc Protect OFF➔ON

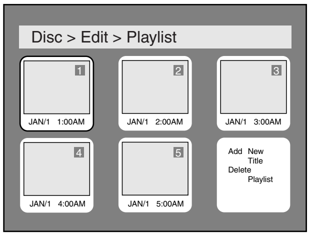
2

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


SETUP
DISC
Disc Setting

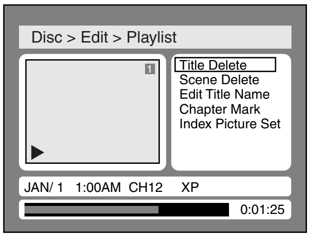
3

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


Disc > Edit > Playlist
1
JAN/1 1:00AM
2
JAN/1 2:00AM
3
JAN/1 3:00AM
4
JAN/1 4:00AM
5
JAN/1 5:00AM
Add New Title
Delete Playlist

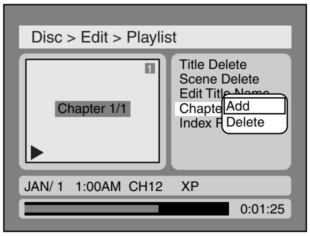
4

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


Disc > Edit > Playlist
1
Title Delete
Scene Delete
Edit Title Name
Chapter Mark
Index Picture Set
JAN/ 1 1:00AM CH12 XP
0:01:25

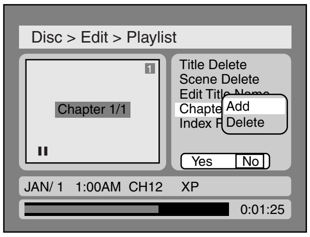
5

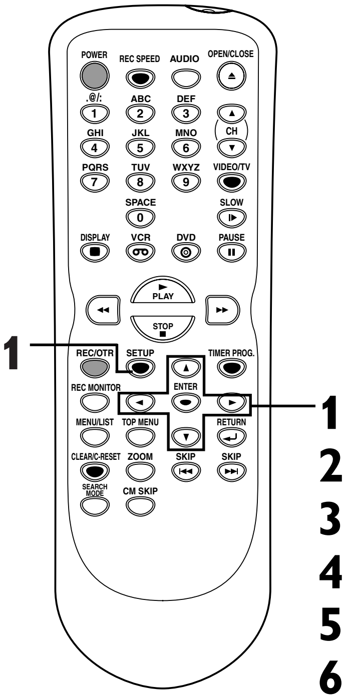
Select "Chapter Mark" using ▲ / ▼ buttons, then press ENTER button.
Option window will appear.


Disc > Edit > Playlist
1
Chapter 1/1
Title Delete
Scene Delete
Edit Title Name
Chapte
Index P
Add
Delete
JAN/ 1 1:00AM CH12 XP
0:01:25

6

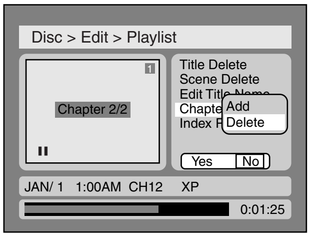
Select "Add" or "Delete" using ▲ / ▼ buttons, then press ENTER button.
Option window will appear.
<Add>:


Disc > Edit > Playlist
1
Chapter 1/1
Title Delete
Scene Delete
Edit Title Name
Chapte
Index P
Add
Delete
Yes
No
JAN/ 1 1:00AM CH12 XP
0:01:25


1
1
2
3
4
5
6
POWER
REC SPEED
AUDIO
OPEN/CLOSE
SETUP
ENTER
REC/OTR
TIMER PROG.
REC MONITOR
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SEARCH MODE
CM SKIP
PLAY
STOP
DISPLAY
VCR
DVD
PAUSE
SLOW
SPACE
VIDEO/TV
CH

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

<Delete>:

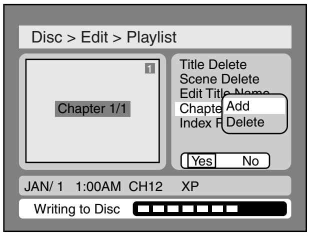

Disc > Edit > Playlist
1
Chapter 2/2
Title Delete
Scene Delete
Edit Title Name
Chapter
Index P
Add
Delete
Yes
No
JAN/ 1 1:00AM CH12 XP
0:01:25

- You cannot delete the first chapter of each title.

7

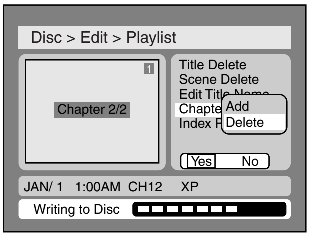
Select "Yes" using ◄ / ► buttons, then press ENTER button.

<Add>:
A chapter marker will be added.


Disc > Edit > Playlist
1
Chapter 1/1
Title Delete
Scene Delete
Edit Title Name
Chapter
Index P
Add
Delete
Yes
No
JAN/ 1 1:00AM CH12 XP
Writing to Disc

This operation may take a while to be completed.

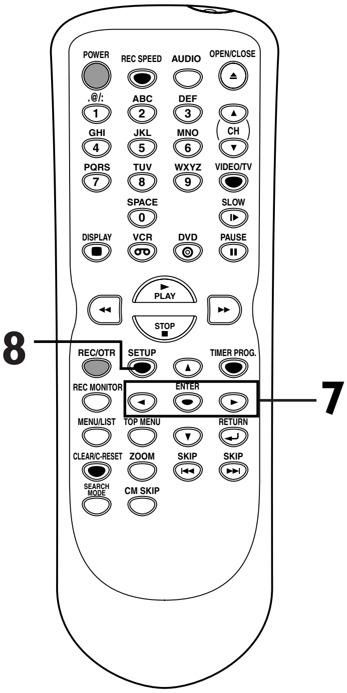
<Delete>:
The chapter marker which you selected will be deleted.


Disc > Edit > Playlist
1
Chapter 2/2
Title Delete
Scene Delete
Edit Title Name
Chapter
Index P
Add
Delete
Yes
No
JAN/ 1 1:00AM CH12 XP
Writing to Disc

This operation may take a while to be completed.

8

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


8
7
POWER
REC SPEED
AUDIO
OPEN/CLOSE
SETUP
ENTER

Setting pictures for thumbnails

VR DVD-RW

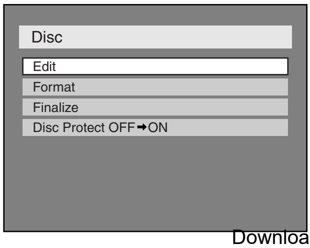
You can set a picture to each title for a thumbnail. It helps you to remember the contents of the title you are playing. The beginning picture has been selected as the default.

First:

1

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

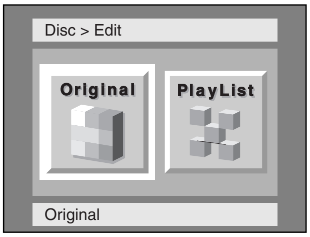
DISC menu will appear.

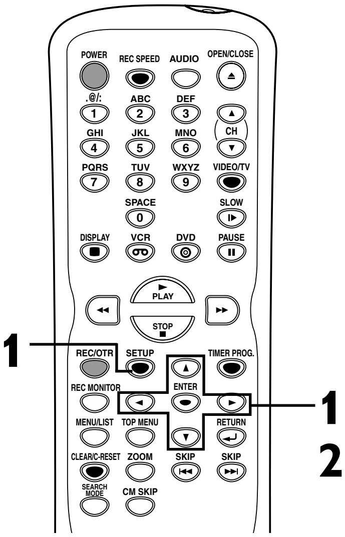

Disc
Edit
Format
Finalize
Disc Protect OFF➔ON

2

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

Original/PlayList menu will appear.
Screen:


Disc > Edit
Original
PlayList
Original


1
1
2
SETUP
ENTER

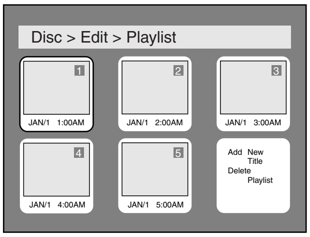
Note

- 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 (Playlist) (cont’d)

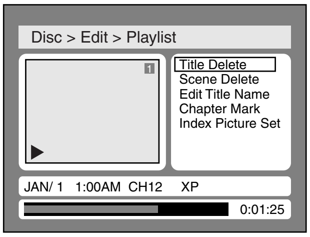
3

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


Disc > Edit > Playlist
1
JAN/1 1:00AM
2
JAN/1 2:00AM
3
JAN/1 3:00AM
4
JAN/1 4:00AM
5
JAN/1 5:00AM
Add New Title
Delete Playlist

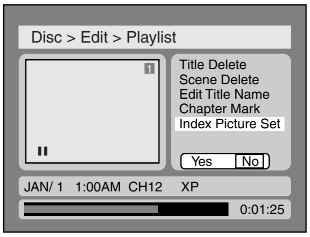
4

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


Disc > Edit > Playlist
1
Title Delete
Scene Delete
Edit Title Name
Chapter Mark
Index Picture Set
JAN/ 1 1:00AM CH12 XP
0:01:25

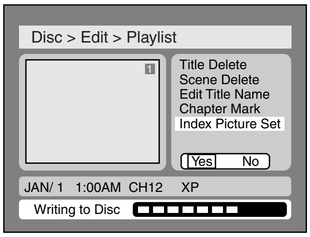
5

Select “Index Picture Set” using ▲ / ▼ buttons. Use SKIP |◀◀ / ▶▶|, ◀◀, ▶▶, PLAY ▶ and PAUSE ❙❙ buttons to decide the picture you want to select as a thumbnail. Then press ENTER button.
Option window will appear.


Disc > Edit > Playlist
1
Title Delete
Scene Delete
Edit Title Name
Chapter Mark
Index Picture Set
Yes
No
JAN/ 1 1:00AM CH12 XP
0:01:25

6

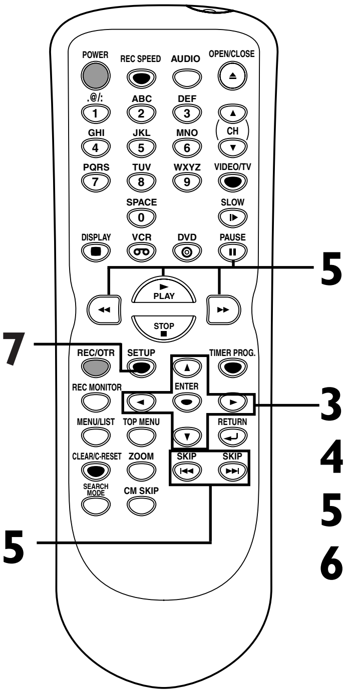
Select “Yes” using ◀ / ▶ buttons, then press ENTER button.
A picture for thumbnail will be set.


Disc > Edit > Playlist
1
Title Delete
Scene Delete
Edit Title Name
Chapter Mark
Index Picture Set
Yes
No
JAN/ 1 1:00AM CH12 XP
Writing to Disc

This operation may take a while to be completed.

7

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


POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/:
ABC
DEF
GHI
JKL
MNO
CH
PQRS
TUV
WXYZ
VIDEO/TV
SPACE
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
5
7
3
4
5
6
5

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

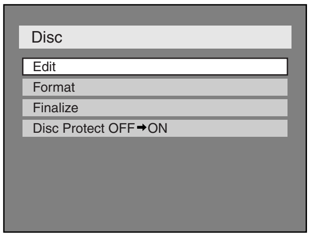
Adding titles to a Playlist

You can add or delete a title in the playlist as you prefer.
You can add titles to a Playlist up to 99.

First:

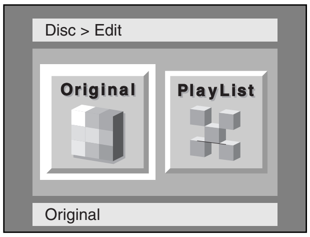
1

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


Disc
Edit
Format
Finalize
Disc Protect OFF➔ON

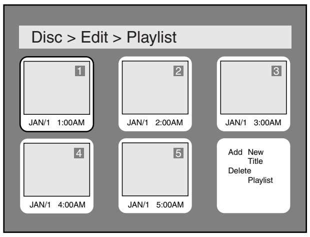
2

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


Disc > Edit
Original
PlayList
Original

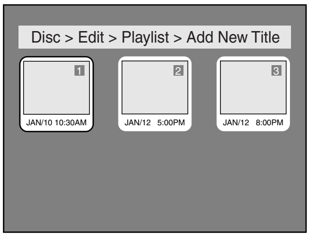
3

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


Disc > Edit > Playlist
1
JAN/1 1:00AM
2
JAN/1 2:00AM
3
JAN/1 3:00AM
4
JAN/1 4:00AM
5
JAN/1 5:00AM
Add New Title
Delete Playlist

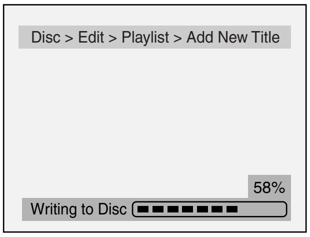
4

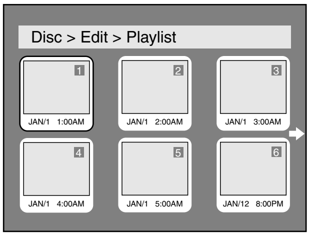
Select "Add New Title" using ▲ / ▼ / ◀ / ▶ buttons, then press ENTER button.
Original list will appear.


Disc > Edit > Playlist > Add New Title
1
JAN/10 10:30AM
2
JAN/12 5:00PM
3
JAN/12 8:00PM

5

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

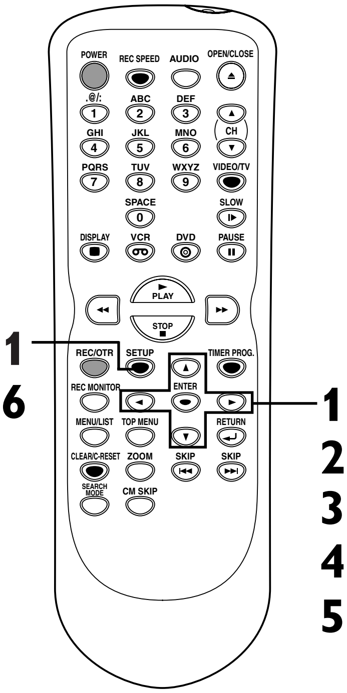

Disc > Edit > Playlist > Add New Title
58%
Writing to Disc


Disc > Edit > Playlist
1
JAN/1 1:00AM
2
JAN/1 2:00AM
3
JAN/1 3:00AM
4
JAN/1 4:00AM
5
JAN/1 5:00AM
6
JAN/12 8:00PM

6

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

To delete a title from Playlist, refer to "Deleting titles" on page 74.
To delete a Playlist, refer to "Deleting a Playlist" on page 82.


POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/: 1
ABC 2
DEF 3
GHI 4
JKL 5
MNO 6
CH
PQRS 7
TUV 8
WXYZ 9
VIDEO/TV
SPACE 0
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
1
6
1
2
3
4
5

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

Deleting a Playlist

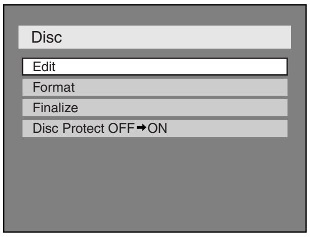
A Playlist can be deleted if no longer needed.

First:

1

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

DISC menu will appear.



Disc

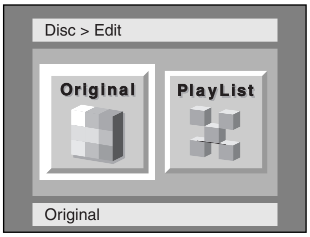
Edit
Format
Finalize
Disc Protect OFF➔ON

2

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

Original/PlayList menu will appear.

Screen:



Disc > Edit

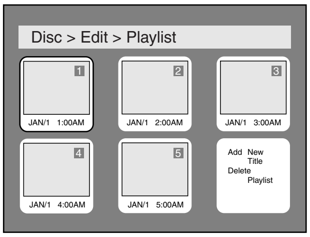
Original
PlayList

Original

3

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

Playlist will appear.



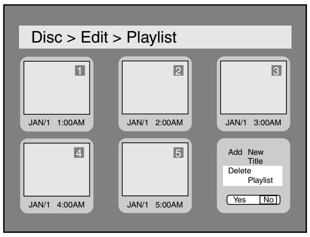
Disc > Edit > Playlist

1 JAN/1 1:00AM
2 JAN/1 2:00AM
3 JAN/1 3:00AM
4 JAN/1 4:00AM
5 JAN/1 5:00AM
Add New Title
Delete Playlist

4

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

Option window will appear.



Disc > Edit > Playlist

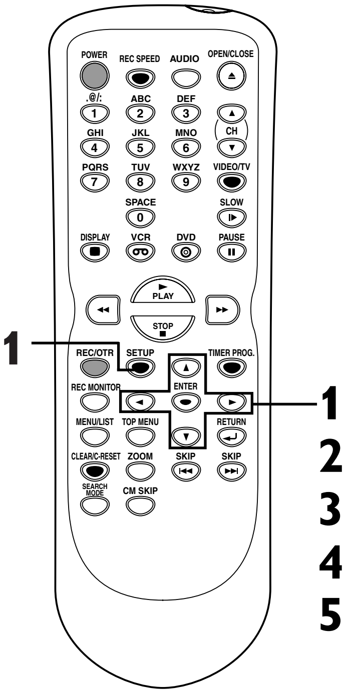
1 JAN/1 1:00AM
2 JAN/1 2:00AM
3 JAN/1 3:00AM
4 JAN/1 4:00AM
5 JAN/1 5:00AM
Add New Title
Delete Playlist
Yes No

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.


POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/: 1
ABC 2
DEF 3
GHI 4
JKL 5
MNO 6
CH
PQRS 7
TUV 8
WXYZ 9
VIDEO/TV
SPACE 0
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
1
1
2
3
4
5

Note

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

Editing DVD-R discs

Deleting titles

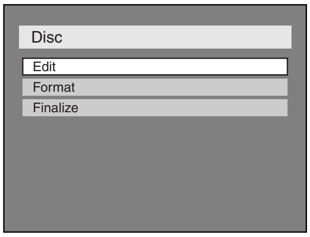
DVD-R

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.

First:

1

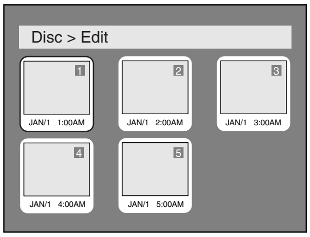
Press SETUP button. Select "DISC" using ◀ / ▶ buttons, then press ENTER button.
DISC menu will appear.



Disc
Edit
Format
Finalize

2

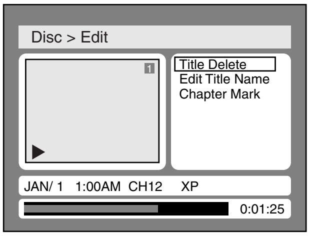
Select "Edit" using ▲ / ▼ buttons, then press ENTER button.
Titlelist will appear.
Screen:



Disc > Edit
1 JAN/1 1:00AM
2 JAN/1 2:00AM
3 JAN/1 3:00AM
4 JAN/1 4:00AM
5 JAN/1 5:00AM

3

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

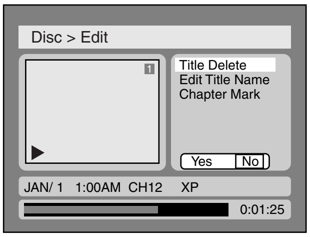


Disc > Edit
Title Delete
Edit Title Name
Chapter Mark
JAN/ 1 1:00AM CH12 XP
0:01:25

You cannot select "Chapter Mark".

4

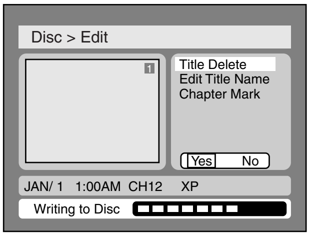
Select "Title Delete" using ▲ / ▼ buttons, then press ENTER button.
Option window will appear.



Disc > Edit
Title Delete
Edit Title Name
Chapter Mark
Yes No
JAN/ 1 1:00AM CH12 XP
0:01:25

5

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

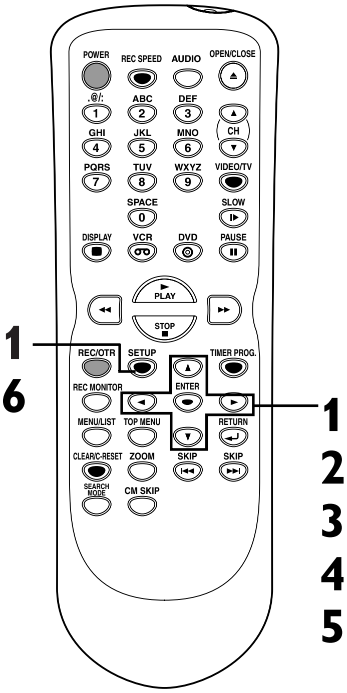


Disc > Edit
Title Delete
Edit Title Name
Chapter Mark
Yes No
JAN/ 1 1:00AM CH12 XP
Writing to Disc

This operation may take a while to be completed.

6

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


POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/:
ABC
DEF
GHI
JKL
MNO
CH
PQRS
TUV
WXYZ
VIDEO/TV
SPACE
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
1
6
1
2
3
4
5

Editing DVD-R discs (cont'd)

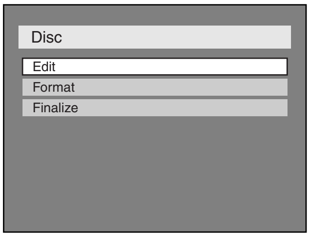
Putting names on titles

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:

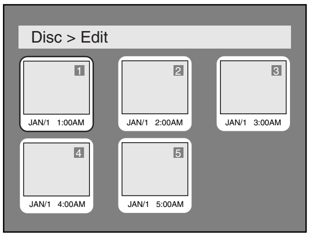
1

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


Disc
Edit
Format
Finalize

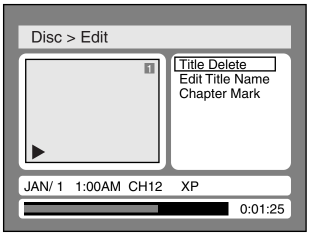
2

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


Disc > Edit
1
2
3
JAN/1 1:00AM
JAN/1 2:00AM
JAN/1 3:00AM
4
5
JAN/1 4:00AM
JAN/1 5:00AM

3

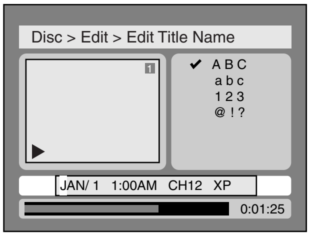
Select a desired title using ▲ / ▼ / ◄ / ► buttons, then press ENTER button.
Edit menu will appear.


Disc > Edit
1
Title Delete
Edit Title Name
Chapter Mark
JAN/ 1 1:00AM CH12 XP
0:01:25

You cannot select "Chapter Mark".

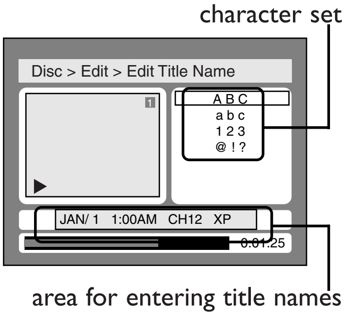
4

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


Disc > Edit > Edit Title Name
1
✔ A B C
a b c
1 2 3
@ ! ?
JAN/ 1 1:00AM CH12 XP
0:01:25

5

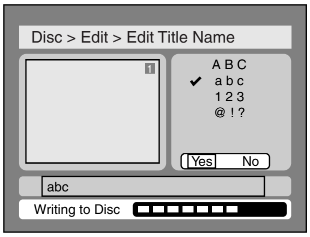
To enter a title name, follow the steps of "Guide to edit title name" on this page.


character set
Disc > Edit > Edit Title Name
1
A B C
a b c
1 2 3
@ ! ?
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

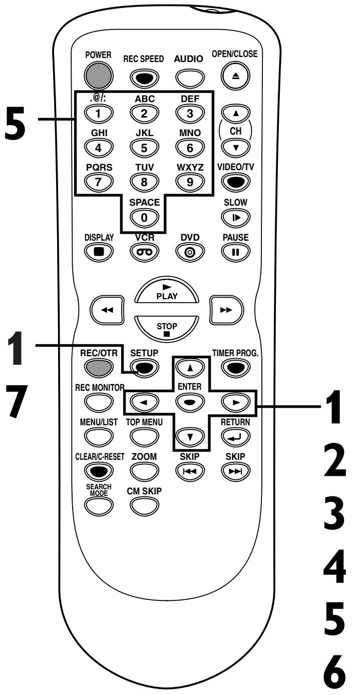
Select "Yes" using ◄ / ► buttons, then press ENTER button.


Disc > Edit > Edit Title Name
1
A B C
✔ a b c
1 2 3
@ ! ?
Yes
No
abc
Writing to Disc

This operation may take a while to be completed.

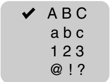
7

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


5
1
7
1
2
3
4
5
6
POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/:
ABC
DEF
GHI
JKL
MNO
PQRS
TUV
WXYZ
CH
VIDEO/TV
SPACE
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP

[Guide to edit title name]

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



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

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

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

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

Changing the SETUP menu

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
1.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 Color	1 2 3	Set the OSD screen color. 1 (Green), 2 (Blue), 3 (Red)
	OSD Language	English Français Español	Set the language for OSD (On Screen Display).
	Screen Saver	OFF 5 minutes 10minutes ⋮	Set the time 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.

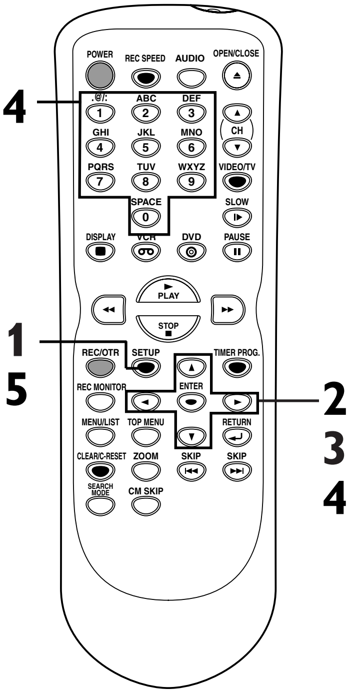
Note

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

Changing the SETUP menu

Settings for Language

Press STOP button if you are playing a disc.

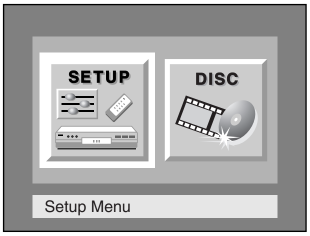


4
1
5
2
3
4
POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/: 1
ABC 2
DEF 3
GHI 4
JKL 5
MNO 6
PQRS 7
TUV 8
WXYZ 9
SPACE 0
CH
VIDEO/TV
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP

1

Press SETUP button to display SETUP/DISC menu.

SETUP/DISC menu will appear.

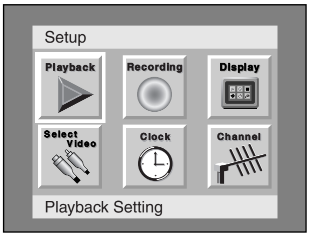


SETUP
DISC
Setup Menu

2

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

SETUP menu will appear.

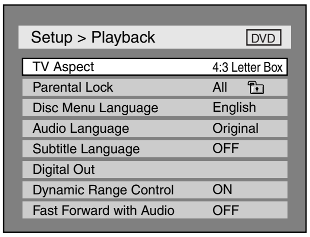


Setup
Playback
Recording
Display
Select Video
Clock
Channel
Playback Setting

3

Select “Playback” using ▲ / ▼ / ◀ / ▶ buttons, then press ENTER button.

Option window will appear.



Setup > Playback DVD

TV Aspect	4:3 Letter Box
Parental Lock	All
Disc Menu Language	English
Audio Language	Original
Subtitle Language	OFF
Digital Out	
Dynamic Range Control	ON
Fast Forward with Audio	OFF

4

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

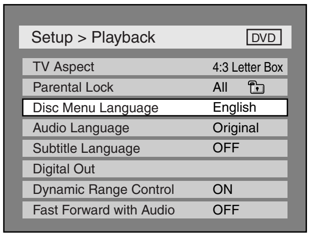
Note

- 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.

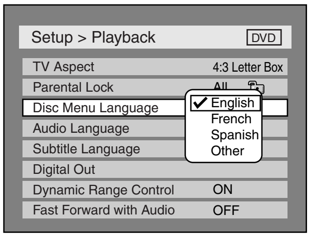
Settings for Language (cont'd)

Disc Menu Language (Default : English)

Set the language for Disc Menu.



Setup > Playback DVD
TV Aspect 4:3 Letter Box
Parental Lock All
Disc Menu Language English
Audio Language Original
Subtitle Language OFF
Digital Out
Dynamic Range Control ON
Fast Forward with Audio OFF



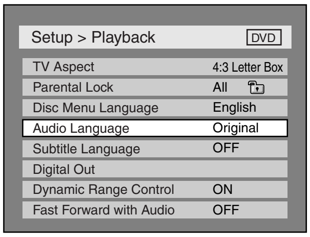
Setup > Playback DVD
TV Aspect 4:3 Letter Box
Parental Lock All
Disc Menu Language ✓English French Spanish Other
Audio Language
Subtitle Language
Digital Out
Dynamic Range Control ON
Fast Forward with Audio OFF

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

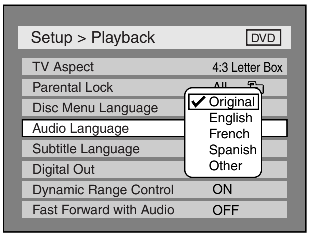
Your setting will be activated.

Audio Language (Default : Original)

Set the Audio language.



Setup > Playback DVD
TV Aspect 4:3 Letter Box
Parental Lock All
Disc Menu Language English
Audio Language Original
Subtitle Language OFF
Digital Out
Dynamic Range Control ON
Fast Forward with Audio OFF



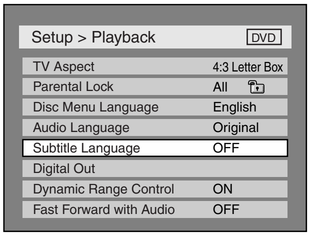
Setup > Playback DVD
TV Aspect 4:3 Letter Box
Parental Lock All
Disc Menu Language
Audio Language ✓Original English French Spanish Other
Subtitle Language
Digital Out
Dynamic Range Control ON
Fast Forward with Audio OFF

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

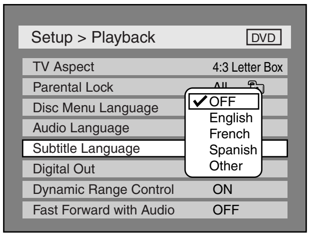
Your setting will be activated.

Subtitle Language (Default : OFF)

Set the subtitle language.



Setup > Playback DVD
TV Aspect 4:3 Letter Box
Parental Lock All
Disc Menu Language English
Audio Language Original
Subtitle Language OFF
Digital Out
Dynamic Range Control ON
Fast Forward with Audio OFF

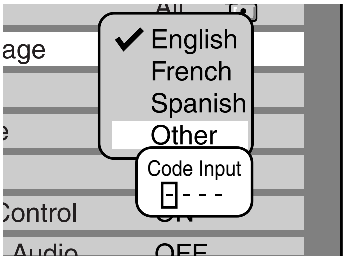


Setup > Playback DVD
TV Aspect 4:3 Letter Box
Parental Lock All
Disc Menu Language
Audio Language
Subtitle Language ✓OFF English French Spanish Other
Digital Out
Dynamic Range Control ON
Fast Forward with Audio OFF

- **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.



✓English
French
Spanish
Other
Code Input
- - - -

- **When you finish entering the code, press ENTER button. Refer to the language code table on page 101.**

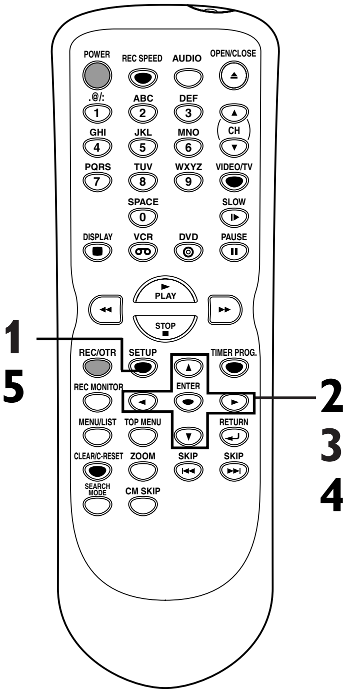
5

Press SETUP button to exit SETUP menu.

Changing the SETUP menu

Settings for Display

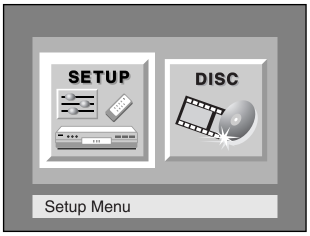
Press STOP button if you are playing a disc.


POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/:
ABC
DEF
GHI
JKL
MNO
CH
PQRS
TUV
WXYZ
VIDEO/TV
SPACE
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
1
5
2
3
4

1

Press SETUP button to display SETUP/DISC menu.

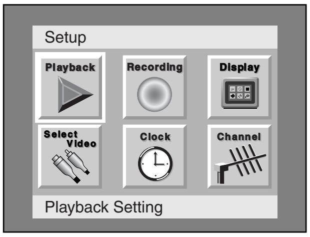
SETUP/DISC menu will appear.


SETUP
DISC
Setup Menu

2

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

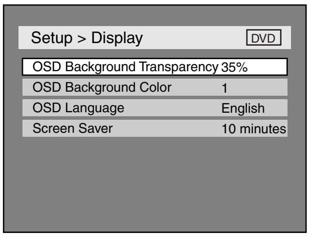
SETUP menu will appear.


Setup
Playback
Recording
Display
Select Video
Clock
Channel
Playback Setting

3

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

Option window will appear.



Setup > Display DVD

OSD Background Transparency 35%
OSD Background Color 1
OSD Language English
Screen Saver 10 minutes

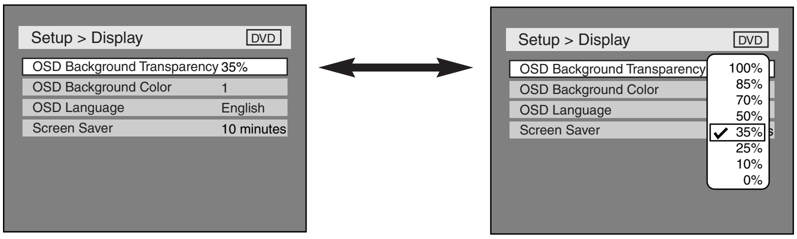
4

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

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%.



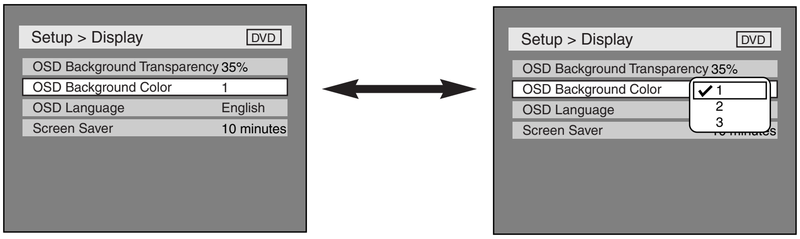
Setup > Display DVD
OSD Background Transparency 35%
OSD Background Color 1
OSD Language English
Screen Saver 10 minutes

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

Your setting will be activated.

OSD Background Color (Default : 1 Green)

Set the OSD screen color.
You can choose one among 1(Green), 2(Blue), and 3(Red).



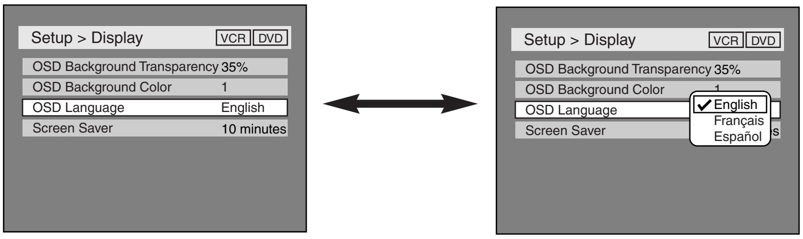
Setup > Display DVD
OSD Background Transparency 35%
OSD Background Color 1
OSD Language English
Screen Saver 10 minutes

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

Your setting will be activated.

OSD Language (Default : English)

Set the language for OSD.



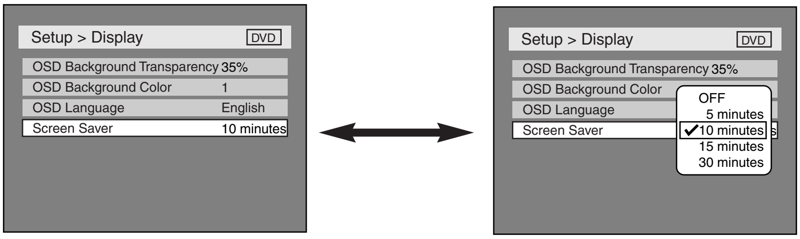
Setup > Display VCR DVD
OSD Background Transparency 35%
OSD Background Color 1
OSD Language English
Screen Saver 10 minutes

- **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.



Setup > Display DVD
OSD Background Transparency 35%
OSD Background Color 1
OSD Language English
Screen Saver 10 minutes

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

Your setting will be activated.

5

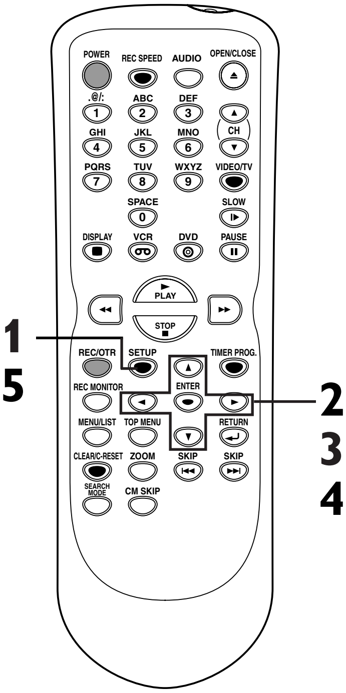
Press SETUP button to exit SETUP menu.

Changing the SETUP menu

Settings for Audio

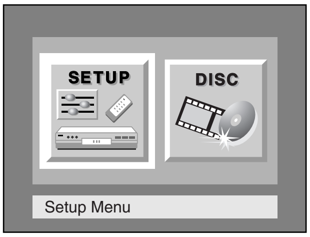
Choose the appropriate Audio settings for your equipment.
It will only affect DVD discs during playback.

Press STOP button if you are playing a disc.


POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/: 1
ABC 2
DEF 3
CH
GHI 4
JKL 5
MNO 6
PQRS 7
TUV 8
WXYZ 9
VIDEO/TV
SPACE 0
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
1
5
2
3
4

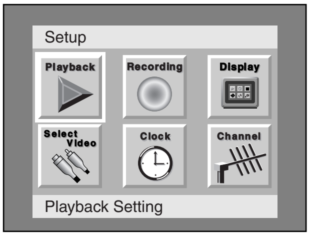
1

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


SETUP
DISC
Setup Menu

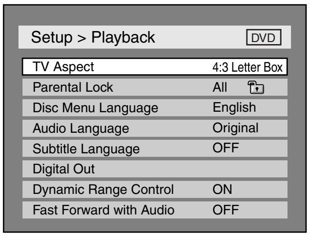
2

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


Setup
Playback
Recording
Display
Select Video
Clock
Channel
Playback Setting

3

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



Setup > Playback DVD

TV Aspect	4:3 Letter Box
Parental Lock	All
Disc Menu Language	English
Audio Language	Original
Subtitle Language	OFF
Digital Out	
Dynamic Range Control	ON
Fast Forward with Audio	OFF

4

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

Note

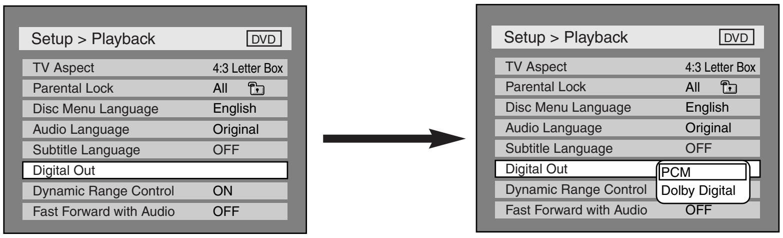
- Dynamic Range Control function is available only on the discs which are recorded in the Dolby Digital format.

Changing the SETUP menu

Settings for Audio (cont'd)

Digital Out

Set the digital audio output.



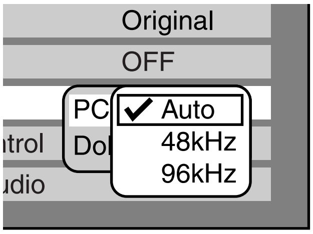
Setup > Playback DVD

TV Aspect	4:3 Letter Box
Parental Lock	All
Disc Menu Language	English
Audio Language	Original
Subtitle Language	OFF
Digital Out	
Dynamic Range Control	ON
Fast Forward with Audio	OFF

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

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

A Settings for PCM (Default : Auto)



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

Your setting will be activated.

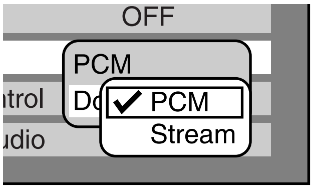
Auto	: Select "Auto" usually.
48kHz	: If your amplifier/decoder is NOT compatible with 96kHz PCM, select "48kHz". 96kHz sound will be output in 48kHz.
96kHz	: If your amplifier/decoder is compatible with 96kHz PCM, select "96kHz". 96kHz sound will be output.

Note

When playing 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.

B Settings for Dolby Digital (Default : Stream)



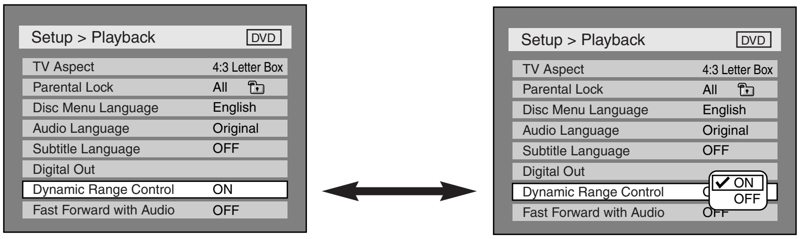
- **Select a setting using ▲ / ▼ buttons, then press ENTER button.**

Your setting will be activated.

PCM	: Convert the Dolby Digital into PCM(2 channel). When your amplifier/decorder is NOT compatible with Dolby Digital, set to "PCM".
Stream	: Outputs a Dolby Digital signals. When your amplifier/decorder is compatible with Dolby Digital, set to "Stream".

Dynamic Range Control (Default : ON)

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



Setup > Playback DVD

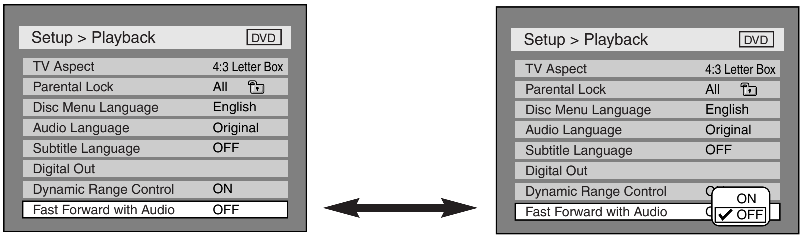
TV Aspect	4:3 Letter Box
Parental Lock	All
Disc Menu Language	English
Audio Language	Original
Subtitle Language	OFF
Digital Out	
Dynamic Range Control	ON
Fast Forward with Audio	OFF

- **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 DVD

TV Aspect	4:3 Letter Box
Parental Lock	All
Disc Menu Language	English
Audio Language	Original
Subtitle Language	OFF
Digital Out	
Dynamic Range Control	ON
Fast Forward with Audio	OFF

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

Your setting will be activated.

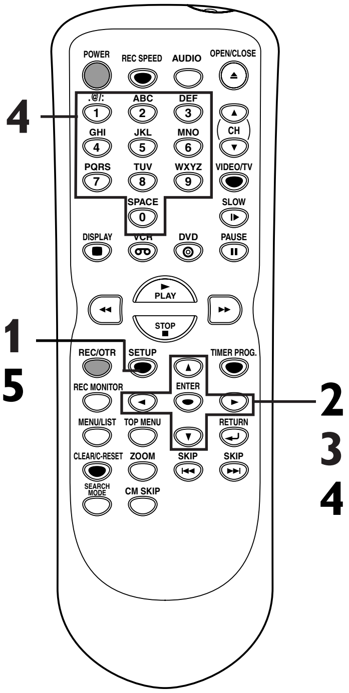
5

Press SETUP button to exit SETUP menu.

Changing the SETUP menu

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 materials.

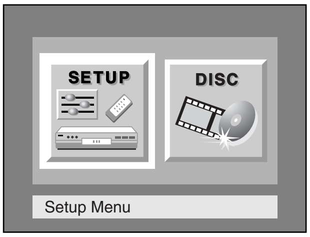

POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/:
ABC
DEF
GHI
JKL
MNO
CH
PQRS
TUV
WXYZ
VIDEO/TV
SPACE
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
4
1
5
2
3
4

Press STOP button if you are playing a disc.

1

Press SETUP button to display SETUP/DISC menu.

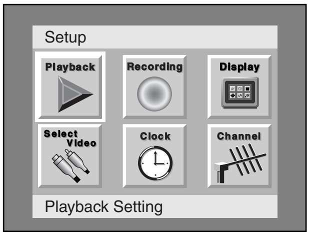
SETUP/DISC menu will appear.


SETUP
DISC
Setup Menu

2

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

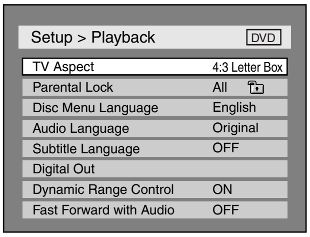
SETUP menu will appear.


Setup
Playback
Recording
Display
Select Video
Clock
Channel
Playback Setting

3

Select “Playback” using ▲ / ▼ / ◀ / ▶ buttons, then press ENTER button.

Option window will appear.



Setup > Playback DVD

TV Aspect	4:3 Letter Box
Parental Lock	All
Disc Menu Language	English
Audio Language	Original
Subtitle Language	OFF
Digital Out	
Dynamic Range Control	ON
Fast Forward with Audio	OFF

4

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

Note

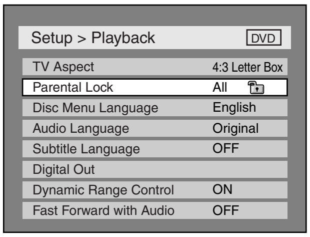
- Parental lock function may not be available to some discs.
- With some DVDs, it may be difficult to find if they are compatible with parental lock. Be sure to check if the parental lock function operates in the way that you have set.
- Record the password in case you forget it.

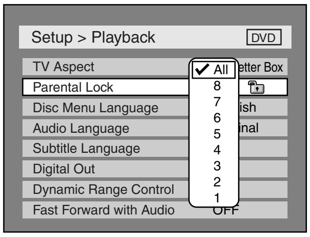
Changing the SETUP menu

Settings for Parental lock level (cont'd)

Parental Lock (Default : All)

Set the Parental Lock level.

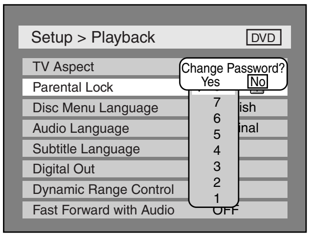

Setup > Playback
DVD
TV Aspect 4:3 Letter Box
Parental Lock All
Disc Menu Language English
Audio Language Original
Subtitle Language OFF
Digital Out
Dynamic Range Control ON
Fast Forward with Audio OFF


Setup > Playback
DVD
TV Aspect
Parental Lock
Disc Menu Language
Audio Language
Subtitle Language
Digital Out
Dynamic Range Control
Fast Forward with Audio
✓ All
8
7
6
5
4
3
2
1

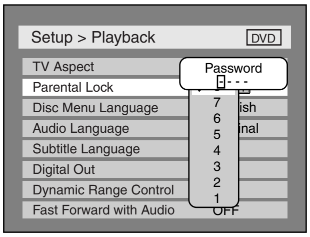
- **Change the parental level using ▲ / ▼ buttons, then press ENTER button.**

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

A A password has not been set yet


Setup > Playback
DVD
TV Aspect
Parental Lock
Disc Menu Language
Audio Language
Subtitle Language
Digital Out
Dynamic Range Control
Fast Forward with Audio
Change Password?
Yes
No
7
6
5
4
3
2
1

Yes


Setup > Playback
DVD
TV Aspect
Parental Lock
Disc Menu Language
Audio Language
Subtitle Language
Digital Out
Dynamic Range Control
Fast Forward with Audio
Password
- - - -
7
6
5
4
3
2
1

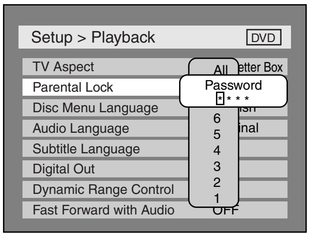
- **Select "Yes" using ◀ / ▶ buttons, then enter a new password using Number buttons.**

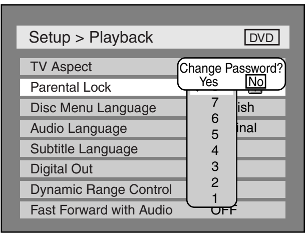
Your setting will be activated.

- **If you select "No", proceed to Step 5.**

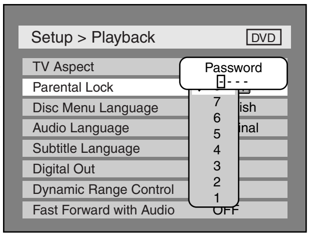
B A password has been set already

Change the password


Setup > Playback
DVD
TV Aspect
Parental Lock
Disc Menu Language
Audio Language
Subtitle Language
Digital Out
Dynamic Range Control
Fast Forward with Audio
All
Password
* * * *
6
5
4
3
2
1


Setup > Playback
DVD
TV Aspect
Parental Lock
Disc Menu Language
Audio Language
Subtitle Language
Digital Out
Dynamic Range Control
Fast Forward with Audio
Change Password?
Yes
No
7
6
5
4
3
2
1

Yes


Setup > Playback
DVD
TV Aspect
Parental Lock
Disc Menu Language
Audio Language
Subtitle Language
Digital Out
Dynamic Range Control
Fast Forward with Audio
Password
- - - -
7
6
5
4
3
2
1

- **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

1

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

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

Press: VCR

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

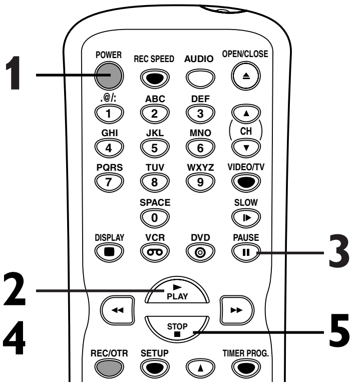
Press PLAY ► button to resume play.

5

Press STOP ■ button to stop playback.

6

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


1
POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/:
ABC
DEF
GHI
JKL
MNO
CH
PQRS
TUV
WXYZ
VIDEO/TV
SPACE
SLOW
DISPLAY
VCR
DVD
PAUSE
3
2
PLAY
4
STOP
5
REC/OTR
SETUP
TIMER PROG.

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 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:

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

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

First: VCR

1

Press REC/OTR button to begin the recording.

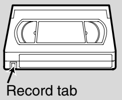
To temporarily stop recording or to resume it, press PAUSE ❙❙ button. After the unit has been in Pause mode for 5 minutes, it will stop automatically to protect the tape and the video head from damage.

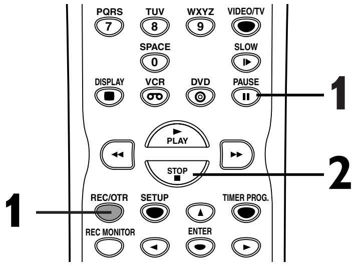
2

Press STOP button when the recording is completed.

Accidental erasure prevention

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




PQRS
TUV
WXYZ
VIDEO/TV
SPACE
SLOW
DISPLAY
VCR
DVD
PAUSE
1
PLAY
STOP
2
1
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER

Note

- To view one channel while recording another
  1) While you are recording on the unit, press VIDEO/TV button.
  2) At the cable box or satellite box, select the channel you want to view.
  If you have connected the unit to a cable box or satellite box, refer to "Connection to a Cable Box or Satellite Box" section on page 14.
- 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.

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

One-touch timer recording

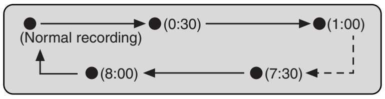
This feature allows you to set the recording length simply by pressing REC/OTR button on the remote control or the front panel of the unit.

First:

1

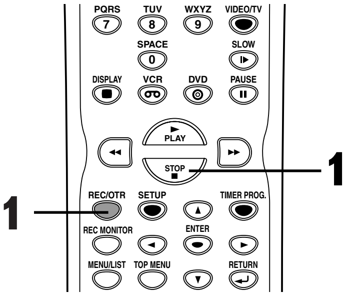
During normal recording, press REC/OTR button to begin one-touch timer recording.

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


(Normal recording)
(0:30)
(1:00)
(8:00)
(7:30)

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.


PQRS
TUV
WXYZ
VIDEO/TV
7
8
9
SPACE
0
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
1
REC/OTR
SETUP
TIMER PROG.
1
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN

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.

Search

Index search

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

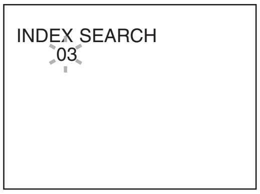
First:

1

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

2

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

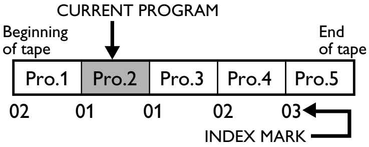


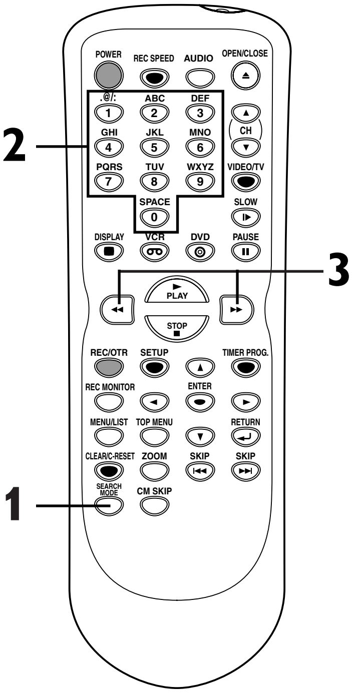
INDEX SEARCH
03

3

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

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


CURRENT PROGRAM
Beginning of tape
End of tape
Pro.1
Pro.2
Pro.3
Pro.4
Pro.5
02
01
01
02
03
INDEX MARK


POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/:
ABC
DEF
1
2
3
GHI
JKL
MNO
CH
4
5
6
PQRS
TUV
WXYZ
VIDEO/TV
7
8
9
SPACE
0
SLOW
2
DISPLAY
VCR
DVD
PAUSE
3
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP
1

Note

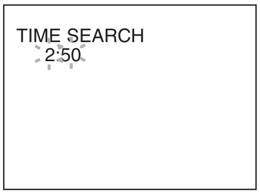
- Every time a tape is recorded, an index mark is written on the tape.

Search (cont'd)

Time search

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

First:



TIME SEARCH
2:50

1

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

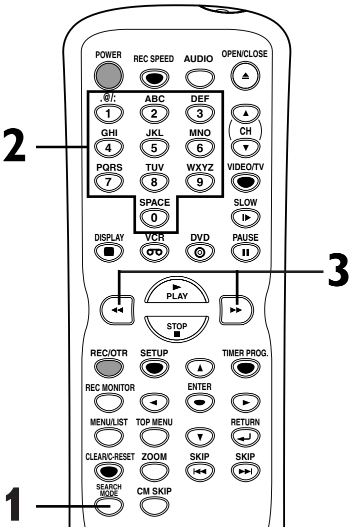
2

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

3

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

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



Note

- 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

First:

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

Press ►►/◄◄ buttons during playback.
Press it again and the unit will search in super high speed. (in the SLP mode only)

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

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

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

Counter Reset:

Press CLEAR/C-RESET button.

To playback in slow motion:

Press SLOW ❙► button during playback or the still mode.
If the noise bars appear on the TV screen, you can reduce it by pressing CHANNEL ▲/▼ or CH▲/CH▼ buttons.

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

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

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

Note

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

Troubleshooting

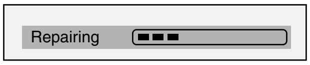
Before requesting service for this unit, check the table below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.

Symptom	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. • Switch the input selector on your TV (such as to "LINE1") 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
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.

Troubleshooting (cont'd)

Symptom	Remedy
Remote control	
The remote control does not function.	• Batteries are weak. • There are obstacles between the remote control and the unit. • The remote control is far from the unit. • There are no batteries in the remote control. • 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.  Repairing	• If there is a power failure or unplugging during recording, finalizing, formatting or editing, a Repairing process will begin automatically just after turning the DVD recorder 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 in the region of the DVD-Video disc which you inserted in the unit.	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 copy-once program onto the DVD-RW disc in Video mode.	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 is unable to record.	Insert the recordable disc, and ensure the disc status 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 copy-once 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 performed, the control Information area may come up to be full even the recording area has enough space.	Delete unnecessary titles (pages 61, 65, 74).
Recording Error You cannot record on the disc as Power Calibration Area is full.	This disc's working area for recording is full. When recordings are performed repeatedly onto an unstable disc, this area may come up to be full.	Insert a new disc.
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

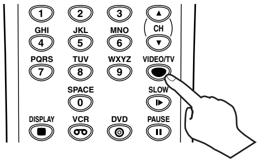
Select channel 3 on your TV.

- Be sure that the unit is in DVD mode.

2

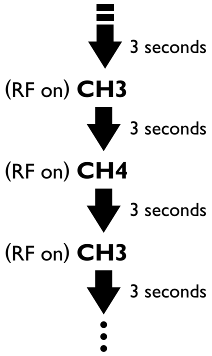
Press VIDEO/TV button on the remote control.

- 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 alternates between CH3 and CH4 as follows.
- Changing the RF output channel is available only when the unit is in DVD mode.

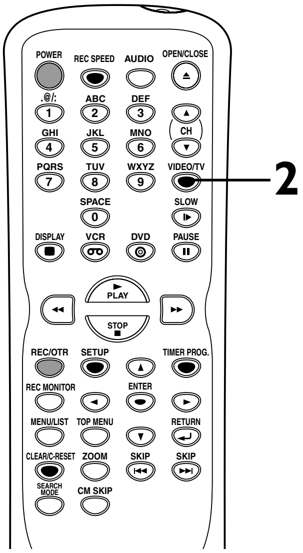


1
2
3
GHI 4
JKL 5
MNO 6
CH
PQRS 7
TUV 8
WXYZ 9
VIDEO/TV
SPACE 0
SLOW
DISPLAY
VCR
DVD
PAUSE

for more than 3 seconds



3 seconds
(RF on) CH3
3 seconds
(RF on) CH4
3 seconds
(RF on) CH3
3 seconds



POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/: 1
ABC 2
DEF 3
CH
GHI 4
JKL 5
MNO 6
PQRS 7
TUV 8
WXYZ 9
VIDEO/TV
2
SPACE 0
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP

Language code

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	4851
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	5051
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	5551
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	5866
Macedonian	5957
Malagasy	5953
Malay	5965
Malayalam	5958
Maltese	5966
Maori	5955
Marathi	5964
Moldavian	5961
Mongolian	5960
Nauru	6047
Nepali	6051
Norwegian	6061
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
Yiddish	5655
Yoruba	7161
Zulu	7267

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.

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 done recording, 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.

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.

Specifications

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.

Enregistrement simple de DVD

Ce qui suit permettra de comprendre facilement comment enregistrer sur des disques DVD.

Remarque :

Vérifier la présence de piles dans la télécommande et le raccordement correct de cet appareil et du téléviseur.

Étape 1 :
Choisir un type de disque

Il y a plusieurs types de disques DVD enregistrables. Choisir un type de disque DVD enregistrable sur la base de ses propres besoins de lecture/enregistrement/montage. Voir “Types de disque DVD” au bas de cette page pour les détails sur les différences entre les divers genres de supports compatibles.

Cet appareil peut enregistrer sur les types de disques suivants.

R 4.7 (ou) RW

Cet appareil ne peut pas enregistrer sur les disques suivants.
- DVD-RW Ver 1.2/2-4x compatible CPRM
- DVD-R ordinaire Ver 2.0/8x

Par exemple, pour enregistrer à répétition sur le même disque, ou pour éditer le disque après l’enregistrement, sélectionner un disque de type DVD-RW réinscriptible.

Pour sauvegarder des enregistrements sans aucune modification, un DVD-R non-inscriptible peut faire l’affaire.

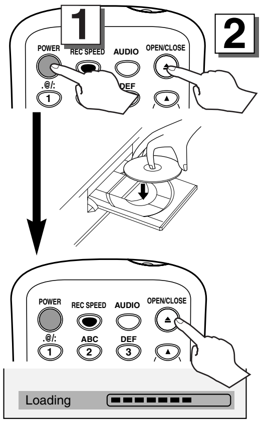
Étape 2 :
Insérer un disque vierge

1 Mettre l’appareil sous tension.

2 Ouvrir le tiroir à disque.

3 Fermer le tiroir à disque.

Télécommande

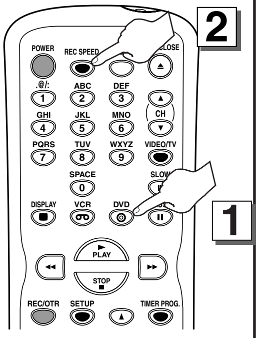


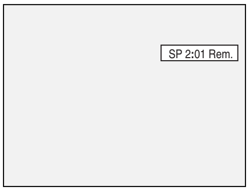
La reconnaissance de cette opération peut exiger un certain temps.

Étape 3 :
Sélectionner la vitesse d’enregistrement

1 Pour sélectionner le mode DVD

2 Pour sélectionner la vitesse d’enregistrement





Types de disques DVD

☆☆☆ : Le mieux adapté ☆☆ : Utilisable ☆ : Certaines fonctions sont limitées. — : Inutilisable

Pour	DVD-RW VR	DVD-RW Video	DVD-R
Enregistrer des programmes de télévision	☆☆☆	☆☆☆	☆☆
Réutiliser en supprimant des matériaux indésirables	☆☆☆	☆☆	—
Monter les matériaux enregistrés	☆☆☆	☆	☆
Monter/enregistrer à partir d’un appareil raccordé	☆☆☆	☆☆☆	☆☆☆
Copier des disques pour la distribution	☆☆[*1]	☆☆☆	☆☆☆
Lire sur un autre appareil DVD	☆☆[*1]	☆☆☆	☆☆☆

Fonctions	DVD-RW VR	DVD-RW Video	DVD-R
Enregistrement			
Réinscriptible	Oui	Oui	Non
Peut créer des chapitres à intervalles fixes (auto)	Oui	Oui	Oui
Peut créer des chapitres aux emplacements souhaités (manuel)	Oui	Non	Non
Peut enregistrer des images en format 16:9	Oui	Oui	Oui
Peut enregistrer des programmes Une copie	Oui	Non	Non
Montage			
Peut effectuer les fonctions de montage de base	Oui	Oui	Oui
Peut effectuer les fonctions de montage avancées (montage de Playlist)	Oui	Non	Non

[*1] Le DVD-RW (mode VR) est seulement lisible sur un appareil DVD compatible VR.

Remarque :

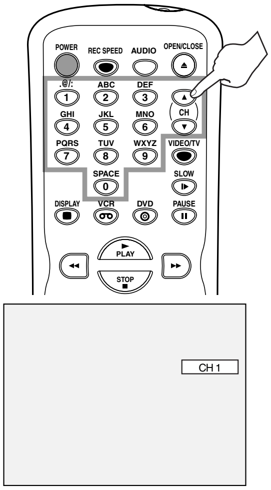
Pour les détails sur les fonctions ci-dessus et les restrictions impliquées, voir les explications dans le manuel.

Formatage du disque

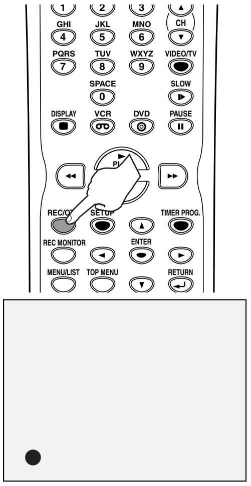
Insérer le disque dans l’appareil. Puis, formater le disque au menu CONFIGURER. Le format Vidéo (mode Vidéo) ou le format d’enregistrement vidéo (mode VR) sera disponible selon le type de disque inséré. Cela est nécessaire pour préparer le disque pour l’enregistrement. Voir les détails aux pages 28-30.

Enregistrement simple de DVD (suite)

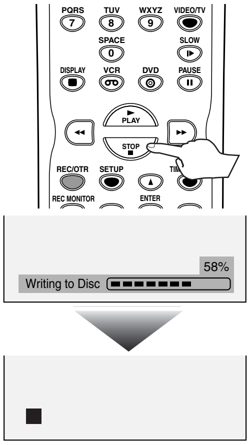
Étape 4 : Sélectionner la chaîne souhaitée


POWER
REC SPEED
AUDIO
OPEN/CLOSE
CH
VIDEO/TV
SPACE
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
CH 1

Étape 5 : Enregistrer sur des disques DVD

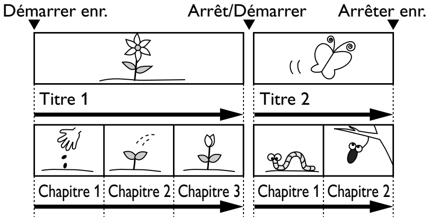

CH
VIDEO/TV
SPACE
SLOW
DISPLAY
VCR
DVD
PAUSE
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
●

Étape 6 : Arrêter l'enregistrement.


VIDEO/TV
SPACE
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
REC MONITOR
ENTER
58%
Writing to Disc
■

Cette opération peut demander un certain temps.

Conseil 1: Lire le contenu enregistré


Démarrer enr.
Arrêt/Démarrer
Arrêter enr.
Titre 1
Titre 2
Chapitre 1
Chapitre 2
Chapitre 3
Chapitre 1
Chapitre 2

Le titre à lire peut être sélectionné au menu affiché, et la lecture peut commencer immédiatement. Le contenu enregistré est très accessible sur un disque, la procédure est vraiment simple, comme si on choisissait un titre de chapitre à l'écran de menu.

Qu'est-ce que titres et chapitres?

Les matériaux du disque DVD sont généralement divisés en plusieurs titres. Les titres peuvent encore être subdivisés en chapitres.

Conseil 2: Monter le disque enregistré

Le montage des disques est très simple; cet appareil offre des fonctions de montage pratiques, utilisables seulement avec les disques DVD-R/RW.

Ce qui suit peut être monté à partir d'une liste de titres.

- **Dénomination de titres**
- **Réglage d'images pour les images miniatures (mode VR)**
- **Réglage/suppression de marques de chapitres**
- **Suppression de parties de titres (mode VR)**
  Suppression de titre : Supprime de façon permanente toute une scène du disque.
  Suppression de scène : Permet à l'utilisateur le montage à l'intérieur d'une scène spécifique (par ex. publicité).

Original et Playlist (mode VR)

Il est possible de monter les enregistrements dans la Playlist sans changer les enregistrements originaux. Une Playlist n'utilise pas beaucoup d'espace du disque.

À quoi servent "Original" ou "Playlist"?

Dans ce manuel, *Original* et *Playlist* seront utilisés pour référer aux matériaux réels et à la version montée.

- **Les matériaux Original** réfèrent à ce qui est réellement enregistré sur le disque.
- **Les matériaux Playlist** réfèrent à la version montée du disque; comment les matériaux Original seront lus.

Finalisation d'un disque

- **Permet la lecture d'un disque enregistré sur cet appareil sur un lecteur de DVD différent – sans finalisation, la lecture sur un autre lecteur est impossible.**
- **Après la finalisation d'un disque, si l'enregistrement a été fait en mode vidéo, il sera imposible de monter toute information sur ce disque.**
- **En cas d'enregistrement en mode VR sur un disque DVD-RW, le montage est encore possible après la finalisation.**

Lecture avec magnétoscope

1

Appuyer sur la touche POWER sur la télécommande ou sur le panneau avant de l'appareil.

Pour lire une cassette, allumer le téléviseur et bien sélectionner l'entrée à laquelle l'appareil est raccordé.

Appuyer sur :

2

Insérer une cassette préenregistrée, puis appuyer sur la touche PLAY ▶ pour démarrer la lecture.

3

Pendant la lecture, appuyer sur la touche PAUSE ❚❚.
L'appareil passera en pause et le son sera assourdi.

4

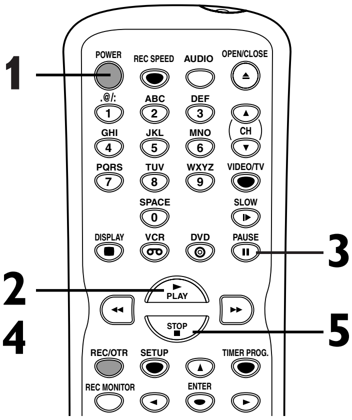
Appuyer sur la touche PLAY ▶ pour reprendre la lecture.

5

Appuyer sur la touche STOP ■ pour arrêter la lecture.

6

Appuyer sur la touche STOP/EJECT ■ ⏏ sur le panneau avant de l'appareil pour éjecter la cassette.


1
2
4
3
5
POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/:
ABC
DEF
GHI
JKL
MNO
CH
PQRS
TUV
WXYZ
VIDEO/TV
SPACE
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER

Remarques

- Quand une cassette sans ergot d'enregistrement est insérée, l'appareil démarre automatiquement la lecture.
- L'alignement sera automatiquement ajusté à la lecture. Pour ajuster manuellement l'alignement, appuyer sur les touches CHANNEL ▲/▼ sur le panneau avant de l'appareil ou sur les touches CH▲/CH▼ de la télécommande.

Enregistrement avec magnétoscope

Enregistrement

Avant l'enregistrement, vérifier que :

- La chaîne souhaitée est sélectionnée en appuyant sur les touches numériques de la télécommande ou sur les touches CHANNEL ▲/▼ sur le panneau avant de l'appareil.
- Il y a une cassette avec ergot d'enregistrement dans l'appareil.
- La vitesse d'enregistrement souhaitée (SP – lecture standard ou SLP – lecture super longue) peut être sélectionnée en appuyant sur la touche REC SPEED sur la télécommande.

Vitesse d'enregistrement :

Vitesse de la bande	Durée de l'enregistrement/lecture		
Tipe de cassette	T60	T120	T160
Mode SP	1 heure	2 heures	2-2/3 heures
Mode SLP	3 heures	6 heures	8 heures

- Stéréo ou SAP est sélectionné :

D'abord:

1

Appuyer sur la touche REC/OTR pour démarrer l'enregistrement.

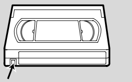
Pour temporairement arrêter l'enregistrement ou le reprendre, appuyer sur la touche PAUSE ❚❚. Après être resté en mode de pause 5 minutes, l'appareil s'arrête automatiquement pour protéger la cassette et la tête vidéo contre les dommages.

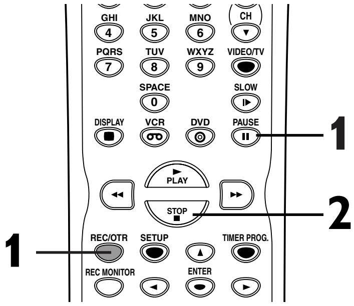
2

Appuyer sur la touche STOP quand l'enregistrement est terminé.

Prévention de l'effacement accidentel

Pour prévenir l'enregistrement accidentel sur une cassette enregistrée, briser son ergot d'enregistrement. Pour réenregistrer dessus par la suite, couvrir le trou de ruban adhésif.


Ergot d'enregistrement


GHI 4
JKL 5
MNO 6
CH
PQRS 7
TUV 8
WXYZ 9
VIDEO/TV
SPACE 0
SLOW
DISPLAY
VCR
DVD
PAUSE
1
PLAY
STOP
2
1
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER

Remarques

- Pour visionner une chaîne pendant l'enregistrement d'une autre
  1) Pendant l'enregistrement sur cet appareil, appuyer sur la touche VIDEO/TV.
  2) Sur la boîte de câblovision ou la boîte satellite, sélectionner la chaîne à visualiser.
  Si cet appareil est raccordé à une boîte de câblovision ou une boîte satellite, se reporter à la section "Connection to a cable box or satellite box" à la page 14.

Enregistrement avec minuterie par simple pression (OTR)

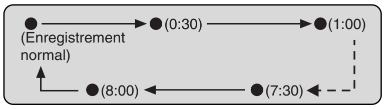
Cette fonction permet de régler la longueur d'enregistrement en appuyant sur la touche REC/OTR de la télécommande ou sur le panneau avant de l'appareil.

D'abord :

1

Pendant l'enregistrement normal, appuyez sur la touche REC/OTR pour commencer l'enregistrement avec minuterie par simple pression.

Pour sélectionner un temps d'enregsitrement fixe, appuyez plusieurs fois sur la touche REC/OTR.

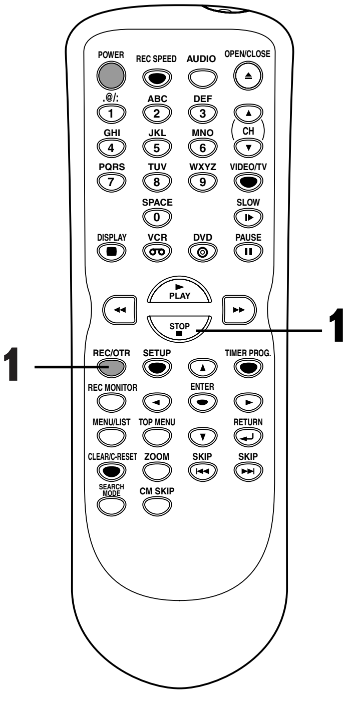

(Enregistrement normal)
(0:30)
(1:00)
(7:30)
(8:00)

Quand l'enregistrement avec minuterie par simple pression est terminé, l'appareil se met automatiquement hors tension.

Pour annuler l'enregistrement avec minuterie par simple pression pendant le temps spécifié, appuyer sur la touche STOP ■.

Remarques

- La durée restante pour l'enregistrement apparaît sur l'affichage de panneau avant pendant l'enregistrement par l'OTR.
- Une pause n'est pas possible pour l'enregistrement par l'OTR.
- Si un enregistrement par l'OTR est términé dans le magnétscope tandis que le DVD est en mode de lecture ou d'enregistrement, le magnétoscope entrera en mode d'arrêt et le DVD restera dans le mode actuel.


POWER
REC SPEED
AUDIO
OPEN/CLOSE
.@/: 1
ABC 2
DEF 3
CH
GHI 4
JKL 5
MNO 6
PQRS 7
TUV 8
WXYZ 9
VIDEO/TV
SPACE 0
SLOW
DISPLAY
VCR
DVD
PAUSE
PLAY
STOP
1
1
REC/OTR
SETUP
TIMER PROG.
REC MONITOR
ENTER
MENU/LIST
TOP MENU
RETURN
CLEAR/C-RESET
ZOOM
SKIP
SKIP
SEARCH MODE
CM SKIP

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LABOR:	FUNAI CORP. will provide the labor without charge for a period of ninety (90) days from the date of original retail purchase.

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