





## **Owner's Manual**

DVD Recorder with Video Cassette Recorder DRV-B2737 DRV-B2734

start Gettin

etting started

Recordin

Playing back discs

Editin

Changing the Setting menus

VCR functions

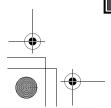
Others

# OPENCLOSE A STANGEVON FEW FFWD SIDPLECT PLAY RECORD FFDD DUBBRING SELECT STOP PLAY RECORD VCR GEECT D-DIVO VCR GEECT

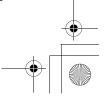
#### **Accessories Supplied**

- Remote control with two R6 (AA) batteries
- RF cable
- Scart cable
- Owner's Manual
- Quick Setup Guide

Before using this unit you need to complete connections. Refer to "Connections" on pages 16-17.













Before you start

## 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



#### CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SÉRVICING 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 personnel should remove the cover or attempt to service this unit, due to the possibility of 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.

#### **Power Supply**

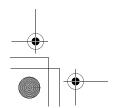
The power supply is connected and the unit is live when the mains cable is plugged into a 220-240 V~, 50 Hz AC outlet. To operate the unit, press [STANDBY-ON].

WARNING: LIVE PARTS INSIDE.

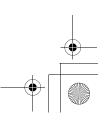
DO NOT REMOVE ANY SCREWS.

#### Caution

- 1. Do not attempt to open the cabinet. There are no parts inside you can service. Refer all servicing to qualified service personnel.
- 2. Slots and openings in the cabinet at the sides and underneath are provided for ventilation. To ensure reliable operation and to protect the unit from overheating, these openings must not be blocked
  - Avoid installation in enclosed spaces such as bookcases unless suitable ventilation is provided.
- 3. Keep the unit away from radiators and other heat sources.
- 4. Avoid use near strong magnetic fields.
- 5. Do not push objects of any kind into the unit through the cabinet slots or openings as they could touch electrically live parts or short circuit parts resulting in a fire or electric shock.
- 6. Do not spill liquid on the unit. If liquid is spilled and enters the unit, consult qualified service personnel.
- Do not stand the unit vertically. Use the unit in a horizontal (flat) position only.
- 8. Before attempting to operate the unit, make sure that the timer recording mode is "OFF."
- 9. This product is in Stand-by mode when turned off while the mains cable is connected.
- 10. Do not place any combustible objects on the device. (Candles, etc.)
- Before moving the unit, be sure to remove any discs and unplug the mains cable from the AC







## DRV B2737 B2734.book Page 3 Thursday, March 31, 2005 10:04 PM



Before you start

#### 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.

When discarding the unit, comply with your local rules or 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!!!

- Exhausted batteries do not belong in the dustbin.
- You can dispose of them at a collection point for exhausted batteries or special
- · Contact your council for details.



For Customer Use:	
Carefully read the Model No. and Serial N	0.
located at the back of the unit and enter th	ıe
information below. Retain this information	for
future reference.	
Model No	
Serial No	

#### 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 the unit from direct sunlight and keep away from sources of intense heat. Avoid dusty or humid locations. Avoid locations with insufficient ventilation for suitable 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 mains cable with wet hands.
- Do not pull on the mains cable to disconnect it from AC outlet. Grasp it by the plug.
- If, by accident, water is spilled on the unit, unplug the mains cable immediately and take the unit to an Authorized Service Centre for servicing.

#### Moisture Condensation Warning

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

#### **Connection to Power**

Before Switching on make sure that the voltage of your electricity supply is the same as that indicated on the rating plate.

#### **Mains Cord**

This appliance may be fitted with a non-rewireable plug. If it is necessary to change the fuse in a nonrewireable plug the fuse cover must be refitted. If the fuse cover is lost or damaged, the plug must not be used until a replacement available from the appliance manufacturer is obtained.

It is important that the colour of the replacement fuse cover corresponds with the rating marking on the base of the plug.

If the plug has to be changed because it is not suitable for your socket, or becomes damaged, it should be cut off and an appropriate plug fitted following the wiring instructions below. The plug removed must be disposed of safely as insertion into a 13A socket is likely to cause an electrical hazard. For your own safety read the following instructions carefully before attempting to connect this unit to

The wires in this mains lead are coloured in accordance with the following code:

#### BLUE=NEUTRAL, BROWN=LIVE

#### Important

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:-

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

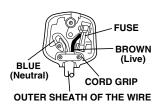
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

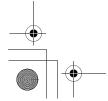
No connection is to be made to the earth terminal of the plua.

If a 13 Amp (BS 1363) Plug is used, a 3 Amp Fuse must be fitted, or if any other type of Plug is used a 3 or 5 Amp Fuse must be fitted, either in the Plug or Adaptor, or on the Distribution Board.

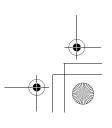
Mains Supply:220 - 240 V 50 Hz - AC only

Do not make any connection to the larger pin marked with the letter "E" or by the symbol 🛓 or coloured green or green and yellow.















#### **About Copyright**

Unauthorized copying, broadcasting, public performance and lending of discs are prohibited. This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

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

#### Dolby Digital Recording

"Dolby® Digital Recording enables consumers to record high-quality video with stereo sound on recordable DVD discs. The technology, when utilized instead of PCM recording, also saves recordable disc space, allowing for higher video resolution or extended recording time on each DVD. DVDs created using Dolby Digital Recording will play back on all DVD-Video players." Note: This is true when the players are compatible with actual recordable DVD discs.

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

"Kodak Picture CD COMPATIBLE" is a trademark of Eastern Kodak Company.

#### **Maintenance**

#### **CLEANING THE UNIT**

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

#### **CLEANING DISCS**

If a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the centre 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.

#### **DISC HANDLING**

Handle the discs so that fingerprints and dust do not adhere to the disk surfaces.

Always store the disc in its protective case when it is not in use.

#### **SERVICING**

If the unit becomes inoperative, do not try to correct the problem by yourself. There are no user serviceable parts inside. Turn the unit off, unplug the mains cable, and consult your dealer or an authorized service centre.

#### **CLEANING THE DISC LENS**

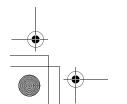
If the unit does not perform correctly even though you have referred to "Troubleshooting" and the relevant sections in the Owner's Manual, the laser optical pickup unit may be dirty. Consult your dealer or an authorized service centre for inspection and cleaning of the laser optical pickup unit.

#### **AUTO HEAD CLEANING**

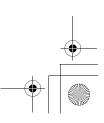
- · Automatically cleans video heads as you insert or remove a cassette, so you can see a clear picture.
- Playback picture may become blurred or interrupted while the TV program reception is clear. Dirt accumulated on the video heads after a long period of use, or the usage of rental or worn tapes can 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 consult your dealer or an authorized service centre.

#### Note:

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







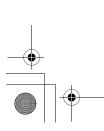
Before you start

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Before you star

#### **Features**

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

#### Recording

The unit is compatible with DVD-RW discs, which are recordable repeatedly, and DVD-R discs, which are recordable only once.

Also, this unit allows you to record to the video cassette tape. You can choose either one for your convenience.

DVD mode

VCR mode

#### Recording up to 8 programme:

You can programme the unit to record up to 8 programmes, up to a month in advance. Daily or weekly programme recordings are also possible.

#### One-touch timer recording:

You can set your required recording time easily. Every time [REC / OTR] is 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 finished.

#### **Dubbing mode:**

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

#### Left channel stereo recording:

This unit can record the sound of the Left channel monaural input as Left and Right channels automatically (available only for AV3 jacks on the front panel).

#### DVD mode

#### REC MONITOR:

You can confirm the picture and sound recording quality for the recording speed you have currently set.

#### **Automatic Chapter marker setting:**

Chapter markers will be added to recordings as you set them in the Setting menu before starting to record.

#### Automatic Title menu making (Video mode):

The unit creates title menus automatically when finalising discs.

#### Automatic Playlist making (VR mode):

The unit creates a Playlist automatically after recording.

#### Automatic finalising (Video mode):

You can finalise discs automatically at the end of the disc space if you set this in the Setting menu.

#### **Playback**

#### DVD mode

#### Theatre surround sound:

When the unit is connected to an amplifier or a decoder compatible with Dolby Digital or DTS, you can enjoy theatre-quality surround sound from discs recorded with the surround sound system.

#### Quick search:

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

#### Playback from Original or a Playlist (VR mode):

You can play back titles using either the Original list or a Playlist.

#### VCR mode

#### Quick search for what you want to watch:

You can easily find the part you want to watch using the Index or 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

#### Set / clear chapter markers (VR mode):

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

#### Making your own Playlist (VR mode):

While the Original list remains unchanged, you can edit titles as you prefer and create your own Playlist. Edit title names

Set thumbnail pictures

Set / clear chapter markers

Divide / combine titles

Delete parts of titles

#### Protecting titles (VR mode):

To avoid accidental editing or erasing of titles, the protect function is useful when set to "ON" in the original list.

#### Compatibility

#### DVD mode

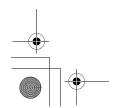
## Playing back discs recorded in Video mode on any regular DVD player:

Discs recorded in Video mode can be played back on regular DVD players, including computer DVD drives compatible with DVD-Video playback. You will need to finalise the discs recorded in Video mode to play back in other DVD players.

\* DVD-Video Format (Video mode) is a new format for recording on DVD-RW / R 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 and other DVD playback devices available that cannot play back DVD-RW / R discs recorded in the DVD-Video Format.

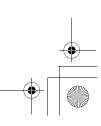
#### PDC

This system assures that the TV programme you wish to record using timer recording will be recorded exactly from beginning to end even if the actual broadcasting time differs.



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Before you start



## **Guide to the Owner's Manual**

#### Symbols used in the Owner's Manual

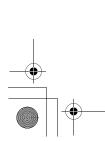
To show what recording mode or disc type applies to each function, the following symbols appear at the beginning of each operating item.

0 0	, ,
Symbol	Description
BVD-V	Available for DVD-Videos
<u>Video</u> DVD-RW	Available for DVD-RW discs in Video mode
DVD-RW	Available for DVD-RW discs in VR mode
GDVD-R	Available for DVD-R discs in Video mode
GDVD+RW	Available for DVD+RW discs*
GDVD+R	Available for DVD+R discs*
<b>CD</b>	Available for Audio CDs
<b>GVCD</b>	Available for Video CDs
GMP3	Available for CD-RW / R discs with MP3 files
GPEG	Available for CD-RW / R discs with JPEG files
<b>Eve</b> R	Available to VHS tapes Use only cassettes marked VHS .

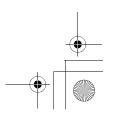
<sup>\*</sup> There may be a disc which cannot be used or played back.

## **Button names described in the Owner's Manual**

The instructions in this manual are described mainly with the operations using the remote control. Some operations can be carried out using the buttons on the front panel.





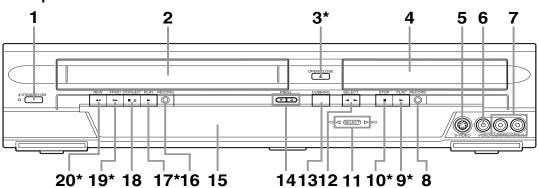




#### **Functional overview**

#### Front panel

Before you start



#### **b** STANDBY-ON button

- Press to turn on or off the unit.
- Red LED Lights up when power is ON.

#### 2 Cassette compartment (VCR)

· Insert a tape here.

#### OPEN / CLOSE ≜ button\* (DVD)

· Press to open or close the disc tray.

#### Disc tray (DVD)

• Place the disc on here when open.

#### 5 S-VIDEO input jack (AV3) (DVD / VCR)

· Use to connect the S-Video output of external equipment with an S-Video cable.

#### VIDEO input jack (AV3) (DVD / VCR)

· Use to connect external equipment with a standard Video cable.

#### 7 AUDIO input jacks (AV3) (DVD / VCR)

• Use to connect external equipment with standard Audio cables.

#### 8 RECORD (DVD)

- Press once to start recording.
- Press repeatedly to start a one-touch timer recording.

#### PLAY ▶ button\* (DVD)

• Press to start or resume playback.

#### 10 STOP ■ button\* (DVD)

- Press to stop a playback or recording.
- Press to stop a timer recording of DVD.

#### 11 VCR / DVD SELECT indicator

• Indicates the selected component (VCR or DVD).

#### $\star$ You can also turn the unit on by pressing these buttons.

#### 12 SELECT **♦** button (DVD / VCR)

· Press to select the DVD mode or the VCR mode.

#### 13 DUBBING button (DVD / VCR)

 Press to start VCR to DVD (DVD to VCR) duplication which you set in the setting menu.

#### 14 PROG. ▲ / ▼ buttons (DVD / VCR)

• Press up or down to change the channel.

#### 15 Display (DVD / VCR)

• Refer to "Front Panel Display Guide" on page 15.

#### 16 RECORD ( button (VCR)

- · Press once to start recording.
- · Press repeatedly to start a one-touch timer recording.

#### 17 PLAY ▶ button\* (VCR)

• Press to start playback.

#### 18 STOP / EJECT ■▲ button (VCR)

- Press to remove the tape from the unit.
- Press to stop the tape motion.
- · Press to stop the proceeding timer recording in

#### 19 FFWD ▶▶ button\* (VCR)

- · Press to rapidly advance the video tape.
- · Press to view the picture rapidly in forward during playback. (Forward Search)
- · Press to turn the unit on when the video tape is inserted and start rapidly advancing the tape.

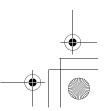
#### 20 REW ◀◀ button\* (VCR)

- Press to rewind the video tape.
- Press to view the picture rapidly in reverse during the playback mode. (Rewind Search)
- Press to turn the unit on when the video tape is inserted and start rewinding the tape.

#### Button names described in the Owner's Manual

The instructions in this manual are described mainly with the operations using the remote control. Some operations can be carried out using the buttons on the front panel.





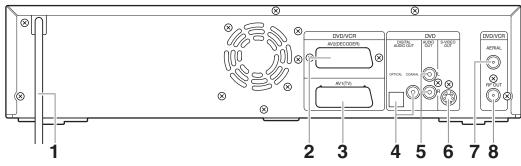




## \_\_

Before you start

#### **Rear Panel**



\*The unit is for the DRV-B2737.

#### 1 Mains cable

• Connect to a standard AC outlet.

#### 2 AV2 (DECODER) (DVD/VCR)

 Connect to VCR, camcorder, or other Audio-Video equipment. Use a commercially available Scart cable.

#### 3 AV1 (TV) (DVD/VCR)

• Connect to the Scart jack on your TV. Use the supplied Scart cable.

## 4 DIGITAL AUDIO OUT (DVD) (OPTICAL (DRV-B2737 only), COAXIAL) jacks

 Connect to an amplifier with digital input jacks such as a Dolby Digital decoder or DTS decoder. Use a commercially available optical or coaxial cable.

#### 5 AUDIO OUT jacks (DVD)

Connect to the audio input jacks on your TV.
 Use commercially available Audio cables.

#### 6 S-VIDEO OUT jack (DVD)

• Connect to the S-Video input jack on your TV. Use commercially available S-Video cable.

#### 7 AERIAL (DVD/VCR)

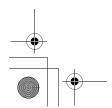
• Connect to an antenna or cable.

#### 8 RF OUT (DVD/VCR)

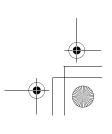
 Connect to the Aerial jack on your TV, cable box or direct broadcast system. Use the supplied RF cable.

#### Note

- Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the unit.
- This unit does not have an RF modulator.

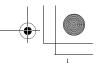






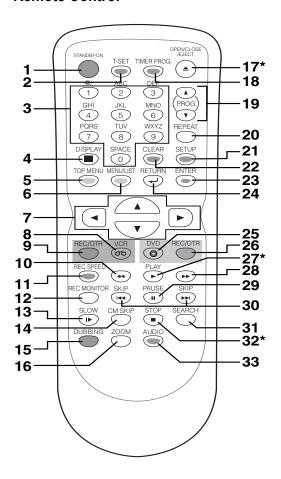






#### Remote Control

Before you start



\*You can also turn on the unit by pressing these buttons when the remote control is in DVD mode.

#### STANDBY-ON button (DVD / VCR)

• Press to turn on or off the unit.

#### T-SET button (DVD / VCR)

· Press to enter the timer-standby mode. In the timer-standby mode, press to cancel the mode and to turn on the unit.

#### 3 Number buttons (DVD / VCR)

- Press to select channel numbers.
- Press to select a title / chapter / track on the display.
- Press to enter values for settings in the setting menu.
- · Press to enter the number in the Index or Time search in VCR mode.
- Press to enter the characters in edit function.

#### **DISPLAY button (DVD / VCR)**

· Press to display the on-screen display.

#### **TOP MENU button (DVD)**

• Press to display the top menu.

#### MENU / LIST button (DVD)

- Press to display the Disc menu during palyback.
- · Press to change the Original and Playlist on the TV screen. (VR mode only)

#### Cursor ▲ / ▼ / ◀ / ▶ buttons (DVD / VCR)

· Press to select items or settings.

#### VCR OO button

- Press to activate the remote control in VCR mode. (See page 12.)
- Press to select the VCR output mode.

#### REC / OTR button (VCR)

- · Press once to start recording.
- · Press repeatedly to start a one-touch timer recording.
- · Press to activate the remote control in VCR mode. (See page 12.)

#### 10 ◀◀ button (DVD / VCR)

#### **DVD** mode

- During playback, press to reverse fast.
- · When playback is paused, press to reverse slowly.

#### VCR mode

- Press to rewind the video tape.
- · Press to view the picture rapidly in reverse during the playback mode.

#### 11 REC SPEED button (DVD / VCR)

· Press to switch the recording speed.

#### 12 REC MONITOR button (DVD)

• Press to check the video and audio quality before attempting to record and during recording.

#### 13 SLOW button (VCR)

· During playback, press to view the video tape in slow motion.

#### 14 CM SKIP button (DVD)

• During playback, press to skip 30 seconds.(See page 41.)

#### 15 DUBBING button (DVD / VCR)

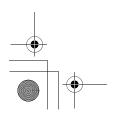
 Press to start VCR to DVD (DVD to VCR) duplication which you set in the setting menu.

#### 16 ZOOM button (DVD)

· During playback, press to enlarge the picture on the screen.

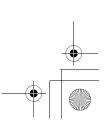
#### 17 OPEN / CLOSE / EJECT ≜ button\* (DVD / VCR)

- · Press to open or close the disc tray.
- Press to remove the tape from the unit.



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Before you start





#### 18 TIMER PROG. button (DVD / VCR)

Press to display the timer programme setting menu.

#### 19 PROG. ▲ / ▼ buttons (DVD / VCR)

#### **DVD** mode

• Press up and down to change the channel.

#### VCR mode

- Press to change the channel up and down.
- Press to adjust the tracking during playback or in slow motion of the tape.
- While playback is in still mode, you can adjust the vertically blurred picture.

#### 20 REPEAT button (DVD)

• Press to select the repeat mode.

#### 21 SETUP button (DVD / VCR)

• Press to display the setting menu in stop mode.

#### 22 CLEAR button (DVD / VCR)

#### **DVD** mode

- · Press to clear the password once entered.
- Press to cancel the programming for a disc.
- Press to clear the selecting marker number in the marker setup mode.
- Press to clear the program once entered in the timer recording setting mode.

#### VCR mode

· Press to reset the tape counter.

#### 23 ENTER button (DVD / VCR)

• Press to confirm or select menu items.

#### 24 RETURN - button (DVD / VCR)

 Press to return to the previously displayed menu screen.

#### 25 DVD ( button

- Press to activate the remote control in DVD mode. (See page 12.)
- Press to select the DVD output mode.

#### 26 REC / OTR button (DVD)

- · Press once to start a recording.
- Press repeatedly to start a one-touch timer recording.
- Press to activate the remote control in DVD mode. (See page 12.)

#### 27 PLAY ▶ button\* (DVD / VCR)

· Press to start or resume playback.

#### 28 ▶▶ button (DVD / VCR)

#### **DVD** mode

- During playback, press to forward fast.
- When playback is paused, press to forward slowly.

#### VCR mode

- Press to rapidly advance the video tape.
- Press to view the picture rapidly in forward during playback.

#### 29 PAUSE II button (DVD / VCR)

· Press to pause playback or recording.

#### 30 SKIP I◄◄ button (DVD)

- During playback, press to skip to the previous chapter or track.
- When playback is paused, press to play reverse step by step.

#### SKIP ▶▶I button (DVD)

- During playback, press to skip to the next chapter or track.
- When playback is paused, press to advance step by step.

#### 31 SEARCH button (VCR)

Press to call up the index or time search menu.

#### 32 STOP ■ button\* (DVD / VCR)

• Press to stop playing back or recording.

#### 33 AUDIO button (DVD / VCR)

#### **DVD** mode

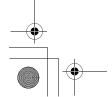
- If you receive bilingual broadcast, or set "External input Audio" to "Bilingual," press to change the AUDIO OUT setting "Main," "Sub" and "Main/Sub."
- Press to display the audio menu during playback.
- Press to select the sound mode.

#### VCR mode

 During playback a Hi-Fi video tape, press to change the AUDIO OUT setting "STEREO," "LEFT," "RIGHT," and "MONO." (If you receive bilingual broadcast, or set "External input Audio" to "Bilingual," press to change the AUDIO OUT setting "Main," "Sub," and "Main/Sub.")

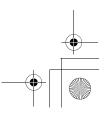
#### Button names described in the Owner's Manual

The instructions in this manual are described mainly with the operations using the remote control. Some operations can be carried out using the buttons on the front panel.





11



FN

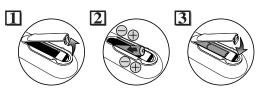






#### Installing batteries in the remote control

Install two R6 (AA) batteries (supplied) into the remote control, carefully match with the polarity indicated inside the battery compartment.

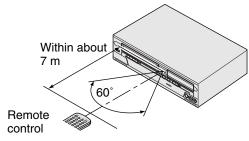


#### Caution

- · Incorrect use of batteries can result in hazards such as leakage and bursting.
- Do not mix new and old batteries together.
- Do not use different kinds of batteries together.
- · Make sure that the plus and minus ends of each battery match the indications inside the battery compartment.
- · Remove batteries if the equipment will not be used for a month or more.
- When disposing used batteries, please comply with governmental regulations or the public instructions for environmental protection that apply in your country or area.
- · Do not recharge, short-circuit, heat, burn or disassemble batteries.

#### About the remote control

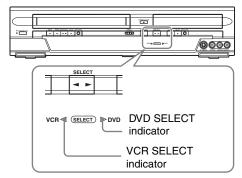
- Make sure there is no obstacle between the remote control and the remote control sensor on the unit.
- Use within the operating range and angle as shown.



- · Remote control operation may become unreliable if the remote control sensor of the unit is being exposed by the strong sunlight or fluorescent light.
- · Remote controls for different devices can interfere with each other. Be careful when using remote controls for other equipment located close to the
- Replace the batteries when the operating range of the remote control reduces.

#### 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 [SELECT ◀ ▶] on the front panel.



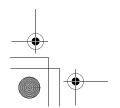
#### VCR mode

Press [VCR oo ] on the remote control. (Verify that the VCR SELECT indicator is lit.)

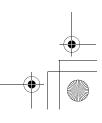
#### DVD mode

Press [DVD (i)] on the remote control. (Verify that the DVD SELECT indicator is lit.)

- Pressing only [SELECT ◀ ▶] on the front panel DOES NOT switch the mode of the remote control. You MUST select the correct mode on the remote
- Press [SELECT ◀▶] to select the DVD mode or the VCR mode.
- . You cannot switch to the mode (DVD or VCR) that is in the timer-standby mode.
- If the media is available, you can start recording by pressing [REC / OTR] (DVD) or [REC / OTR] (VCR) on the remote control even if another equipment (DVD or VCR) is selected. In this case, the mode of the remote control will be automatically switched to the appropriate component.









Before you start

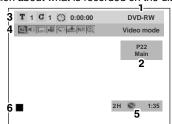
#### **Guide to On Screen Displays**

#### **DISPLAY** menu

DVD mode

Press [DVD 0] first.

With a disc inserted into the unit, press [DISPLAY] to display the on screen display. The menu shows information about what is recorded on the disc.



This is an example screen for explanation. Displayed items vary depending on the actual mode.

#### 1 Disc type and format mode.

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

- 2 Position number and audio status of the programme.
- 3 Title number, chapter number and the time lapse of disc playback.
- 4 Each icon means:

: Search

: Audio

: Subtitle

: Angle (except VR mode)

: Repeat

: Marker

NR: Noise Reduction

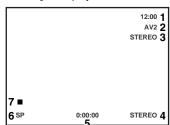
🖭 : Zoom

- 5 Recording mode and remaining time.
- 6 Status of the current disc.

VCR mode

Press [VCR 🕥 ] first.

Press [DISPLAY] to display the on screen display.



This is an example screen for explanation. Displayed items are depending on the actual mode.

- 1 Current time.
- 2 Position number.
- 3 Audio status of the receiving broadcast or external equipment.
- 4 Audio status of the currently playing back video tape.
- 5 Tape counter.
- 6 Recording or playing back speed.
- 7 Status of the current tape.

While in the VCR mode, the on screen display of the VCR mode is displayed.

#### Setting menus

Press [SETUP] in stop mode to display "Easy Setting Menu" or "Advanced Setting Menu". Choose either "Easy Setting Menu" or "Advanced Setting Menu" using [Cursor ▲ / ▼], then press [ENTER] to change between the menus.

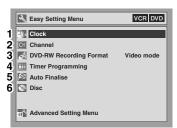
"Easy Setting Menu" and "Advanced Setting Menu" are available from the Setting Menu. The "Easy Setting Menu" consists of the settings frequently needed, while the "Advanced Setting Menu" consists of all the settings available. You can set the items marked with 

in the "Easy Setting Menu."

The unit remembers which setting menu you used last time and recalls it when you press [SETUP] in stop mode next time, even if power is switched off. (i.e., if you use the "Easy Setting Menu" and then turn the unit off, the "Easy Setting Menu" will appear next time you turn on the unit and press [SETUP] in stop mode.)

#### **Easy Setting Menu:**

You can make the settings of the basic items as follows.



#### 1 Clock:

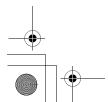
Set the unit clock.

#### 2 Channel:

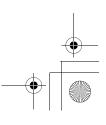
Set up auto tuning or manual tuning.

#### 3 DVD-RW Recording Format:

Select the DVD-RW recording format between Video mode and VR mode.













**Timer Programming:** Programme a timer recording.

#### **Auto Finalise:**

Before you start

Set Auto Finalise to "ON" or "OFF."

#### 6 Disc / CD Playback Mode:

"Disc" is available only when a DVD-RW / R disc is inserted into the unit. If a DVD-Video (commercially available), a new DVD-R disc or a finalised DVD-R disc is inserted into the unit, you cannot select "Disc." "CD Playback Mode" is available only when an Audio CD, Video CD or a CD-RW / R disc with MP3 / JPEG / KODAK PICTURE CD files recorded is inserted into the unit.

#### Advanced Setting Menu:

You can make all the settings available as follows.



#### 1 Playback:

Set up the unit to play back a disc.

#### Recording:

Set up the unit to record to a disc or a tape.

#### Display:

Set up the front panel display of the unit.

#### 4 Select Video:

Choose an external input to record from other video equipment to a disc or a tape.

#### 5 Clock:

Set the unit clock.

#### 6 Channel:

Set up and adjust channels.

#### 7 Disc / CD Playback Mode:

"Disc" is available only when a DVD-RW / R disc is inserted into the unit. If a DVD-Video (commercially available), a new DVD-R disc or the finalised DVD-R disc is inserted into the unit, you cannot select "Disc." "CD Playback Mode" is available only when an Audio CD, Video CD or a CD-RW / R disc with MP3 / JPEG / KODAK PICTURE CD files recorded is inserted into the unit.

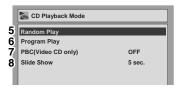
#### DVD-R & DVD-RW (Video mode)



#### DVD-RW (VR-mode)



#### CD, MP3, JPEG, KODAK PICTURE CD & Video



This is an example screen for explanation. Some items will be displayed in grey depending on the inserted disc.

#### 1 Title List / Playlist / Original:

Display the titles recorded on the disc.

#### 2 Format (DVD-RW only):

Erase all of the recorded content on the disc.

- It is not possible to recover erased content. Make sure before you format a disc.
- It is not possible to use a disc formatted with this unit in another DVD recorder. When you use a disc with another DVD recorder, format a disc using that DVD recorder.

#### 3 Finalise:

Finalise a disc containing recorded titles.

#### 4 Disc Protect (VR mode only):

Protect a disc from accidental over-recording, editing or erasing.

#### 5 Random Play:

Activate the random playback feature.

#### Program Play (except MP3 / JPEG / **KODAK PICTURE CD files):**

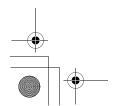
Activate the programmed playback feature.

#### 7 PBC (Video CD only):

Turn the PBC function "ON" or "OFF."

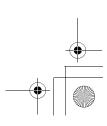
#### Slide Show (JPEG / KODAK PICTURE CD files only):

Select the display time.



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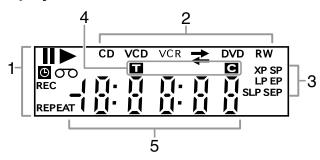






Before you start

#### **Front Panel Display Guide**



#### 1 Current status of the unit

Appears when a disc or a tape playback is paused.

Appears also during step by step playback.

Appears when playing back a disc or a tape.

 Appears during slow forward or slow revese playback.

Appears when the timer programming or one-touch timer recording (OTR) is set and is operating.

Flashes when all the timer programmes are finished.

Flashes when there is an error in programming.

**REC:** Appears when recording.

Flashes when recording being paused.

#### REPEAT:

Appears during repeat playback (only for disc playback).

OO: Appears when a tape is in the unit.

#### 2 Disc type and Current status of the unit

CD: Appears when an Audio CD or a disc with MP3 / JPEG / KODAK PICTURE CD files recorded is inserted into the unit.

**VCD:** Appears when a Video CD is inserted into the unit.

**DVD:** Appears when a DVD is inserted into the unit, or when recording or the timerstandby mode.

Flashes when switch to the timer-standby mode while programming cannot set.

#### DVD R:

Appears when a DVD-R disc is inserted into the unit.

#### DVD RW:

Appears when a DVD-RW disc is inserted into the unit.

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

Appears when VCR is in the timerstandby mode.

Flashes when switch to the timer-standby mode while programming cannot set.

#### VCR→DVD:

Appears during VCR to DVD duplication process.

#### VCR←DVD:

Appears during DVD to VCR duplication process.

#### 3 Recording speed

- Selected recording speed appears during recording or in stop mode.
- Recording speed appears during VCR playback.

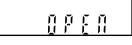
#### 4 Title / Track and Chapter mark

Title / track number.
Chapter number.

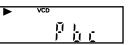
#### 5 Displays the following

- Playing back time / remaining time
- Current title / chapter / track number
- · Recording time
- Clock
- Channel number
- VCR tape counter
- One-touch timer recording (OTR) remaining time.

#### Display messages



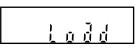
The disc tray is open.



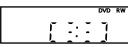
The PBC function of the Video CD is activated.



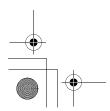
The disc tray is closing.



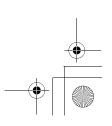
A disc is inserted into the unit.



Data is being recorded on a disc.



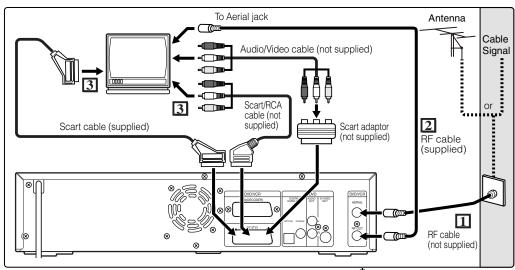
\_







## **Getting Started**



 $^{f \star}$  The unit is for the DRV-B2737.

#### **Connections**

Getting Started

#### Connecting to a TV

Connect the unit to a TV after considering the capabilities of your existing equipment.

Before installation, plug off your TV and this unit. Using the Scart jack

- 1 Connect the antenna or cable to the AERIAL jack of this unit.
- 2 Connect the RF OUT jack of this unit to the Aerial jack of your TV. Use the supplied RF cable.
- 3 Connect AV1 (TV) Scart jack of this unit to the Scart jack of your TV. Use the supplied Scart cable.

#### Note

ΕN

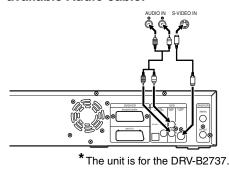
 If your TV does not have a Scart jack, use commercially available Scart adaptor or Scart/RCA cable to connect. Use only AV1 (TV) or AV2 (DECODER) jack for the VCR output signals of this unit.

## Using the S-VIDEO OUT jack and the AUDIO OUT jack (only for DVD)

If your TV has an S-Video input jack, use S-Video and Audio cables to connect.

- 1 Follow steps 1 and 2 above.
- 2 Connect S-VIDEO OUT jack of this unit to the S-Video input jack of your TV. Use commercially available S-Video cable.

Connect the AUDIO OUT jacks of this unit to the Analogue audio input jacks of your TV. Use a commercially available Audio cable.



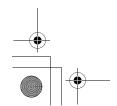
Note for a TV with no S-Video input jacks or Scart jack:

This unit has no RF modulator, so this type of TV cannot be used.

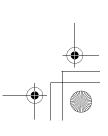
#### Connecting to external equipment

This unit has three input terminals, AV1 or AV2 on the rear panel and AV3 on the front panel. Be sure that all the units are off before making connections.

Recording from a DVD player, VCR or other Audio-Video equipment with a Scart output jack (AV2)

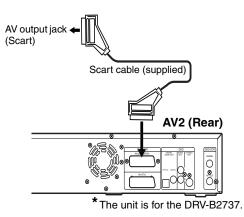






Getting Started



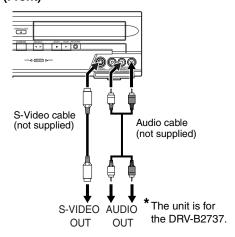


#### Recording from a camcorder or other Audio-Video equipment with no Scart output iack (AV3)

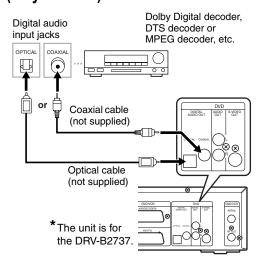
If no S-Video input jack is available, connect to VIDEO input jack on the front panel using an RCA

Change the setup when using S-VIDEO IN jack. (See page 32.)

#### AV3 (Front)



#### Digital audio for better sound quality (only for DVD)



#### The connections illustrated above are optional for better sound.

1 For clear digital sound quality, use the DIGITAL AUDIO OUT (OPTICAL (DRV-B2737 only) or COAXIAL) jack to connect your digital audio equipment.

If the audio format of the digital output does not match the capabilities of your receiver, the receiver will produce a strong, distorted sound or no sound at all.

#### Connecting a Dolby Digital™ decoder, DTS decoder or MPEG decoder

- · Connecting multi-channel Dolby Digital decoder allows you to enjoy the 5.1ch Dolby Digital surround system as well as DTS decoder, 5.1 channel surround system.
- After connecting to a Dolby Digital decoder, set "DOLBY DIGITAL" to "Stream" in the AUDIO menu. (See page 60.)
- After connecting to a DTS decoder, set "DTS" to "ON" in the AUDIO menu. (See page 60.)
- After connecting to a MPEG decoder, set "MPEG" to "Stream" in the AUDIO menu. (See page 60.)

#### Connecting to an MD deck or DAT deck

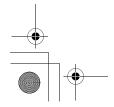
- The audio source recorded in Dolby Digital 5.1 channel surround format cannot be recorded using an MD or DAT deck as a digital sound.
- If not connected to a Dolby Digital decoder, set "DOLBY DIGITAL" to "PCM" in the AUDIO menu. Playing back a DVD using incorrect settings may generate noise distortion, and damage speakers.
- · Set "DOLBY DIGITAL," and "MPEG" to "PCM" and set "DTS" to "OFF" in the AUDIO menu for connecting to an MD or DAT deck.
- You can use AUDIO OUT jacks for the connection of your audio system.

#### After you have completed connections

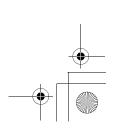
Switch the input selector on your TV to an appropriate external input channel. For details, refer to the Owner's Manual of your TV.

#### Note

• Connect this unit directly to the TV. If the AV cables are connected to a VCR, pictures may be distorted due to the effects of the copy protection system.













Tuning of this unit to broadcast channels can be performed in two ways.

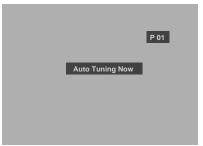
#### Auto tuning 🕙

Getting Started

Programme the tuner to scan only the channels you can receive in your area.

- 1 Press [STANDBY-ON] to turn on the unit.
- 2 Turn the TV on and select the input to which the unit is connected.
- 3 In stop mode, press [SETUP].
  "Easy Setting Menu" or "Advanced Setting Menu" will appear.
- 4 Select "Channel" using [Cursor ▲ / ▼], then press [ENTER].
- 5 Select "Auto Tuning" using [Cursor ▲ / ▼], then press [ENTER].

The unit will start storing channels available in your area.



Wait for several minutes to finish channel storing.

#### **6** Press [SETUP] to exit.

You can select only the channels memorized in this unit by using [PROG.  $\triangle$  /  $\blacktriangledown$ ].

#### To select a channel

You can select a channel using [PROG. ▲ / ▼], or directly enter the channel using [the Number buttons] on the remote control.

#### To cancel auto tuning

Press [RETURN ] or [SETUP] during scanning.

#### Note

FΝ

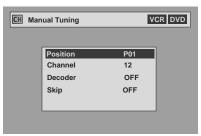
- The selection will be affected by how you receive TV channels in your local area.
- If the auto tuning is cancelled during scanning, some channels not yet tuned may not be received.
- You cannot change the channel when either VCR or DVD is in any recording mode (normal recording, one-touch timer recording or timer recording).

#### Manual tuning 🕙

Manually tune each channel.

- 1 In stop mode, press [SETUP].

  "Easy Setting Menu" or "Advanced Setting Men
  - "Easy Setting Menu" or "Advanced Setting Menu" will appear.
- 2 Select "Channel" using [Cursor ▲ / ▼], then press [ENTER].
- 3 Select "Manual Tuning" using [Cursor ▲ / ▼], then press [ENTER].



- 4 Select "Position" using [Cursor ▲ / ▼], then press [ENTER].
- 5 Select the position number you wish to use using [the Number buttons] or [Cursor ▲ / ▼], then press [RETURN ←].

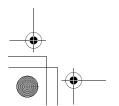
You can select position numbers 01 to 99.

- Select "Channel" using [Cursor ▲ / ▼], then press [ENTER].
- 7 Press [Cursor ▲ / ▼] to start scanning.
  - The tuner will begin to search up or down automatically. When a channel is found, the unit will stop searching and the picture will appear on the TV screen.
  - You can select a desired channel number using [the Number buttons]. Refer to the following Channel Plan table and press the three digits to select the channel number.

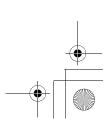
    (The left channel number [10] first and then
    - (To select channel 4, press [0] first and then press [0] and [4], or press [4]. Or press [4] and then "-4" appears and wait for 2 seconds.)
  - If this is the channel you want, press [RETURN —].

Channel Plan		
Ch. Indication	TV Channel	
01 - 10	IRA - IRJ, GAP	
21 - 69	E21 - E69	
74 - 78	X, Y, Z, Z+1, Z+2	
80 - 99, 100	S1 - S20, GAP	
121 - 141	S21 - S41	

This unit can receive the Hyper and Oscar frequency bands.









- If "Skip" is set to "ON," select "Skip" using [Cursor ▲ / ▼], then press [ENTER]. Select "OFF" using [Cursor ▲ / ▼], then press [RETURN].
- If you want to decode scrambled signals, select "Decoder" using [Cursor ▲ / ▼], then press [ENTER]. Select "ON" using [Cursor ▲ / ▼], then press [RETURN -].
- To store another channel, repeat steps 4 to 7.
- After completion, press [SETUP] to

#### To select a channel

#### Notes on using the Number buttons:

- Enter channel numbers as a two-digit number for the quickest result. For example, to select channel 6, press [0] and [6]. If you only press [6], channel 6 will be selected after 2 seconds. You can only select channels 1 to 99.
- You can select the external input mode "AV1," "AV2" or "AV3."
  - To select "AV1," press [0], [0], [1].
  - To select "AV2," press [0], [0], [2].
- To select "AV3," press [0], [0], [3].

#### To skip a Preset channel

You can set the unit to skip channels you can no longer receive or seldom watch when you access channels using [PROG. ▲ / ▼].

- Follow steps 1 to 3 in "Manual tunina."
- 2 Select "Position" using [Cursor ▲ / ▼], then press [ENTER].
- Select the position number you wish to skip using [the Number buttons] or [Cursor ▲ / ▼], then press [RETURN ←].
- 4 Select "Skip" using [Cursor ▲ / ▼], then press [ENTER].
- 5 Select "ON" using [Cursor ▲ / ▼], then press [RETURN ].
  - To skip another channel, repeat steps 2 to 5.
- **6** Press [SETUP] to exit.

#### Move

You can replace two channels.

- 1 In stop mode, press [SETUP].
- 2 Select "Advanced Setting Menu" using [Cursor ▲ / ▼], then press [ENTER].

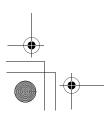
If it has already appeared, proceed to step 3.

- 3 Select "Channel" using [Cursor ▲ / ▼], then press [ENTER].
- 4 Select "Move" using [Cursor ▲ / ▼], then press [ENTER].
- 5 Select the position number of which you want to change the channel using [Cursor ▲ / ▼], then press [ENTER].

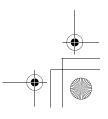
You cannot select a position number where "---" appears next to the number, because "Skip" is set to "ON" for that position number.

- **b** Move the channel to another position number using [Cursor ▲ / ▼], then press [ENTER].
  - To move another channel, repeat steps 5 to 6.
- 7 Press [SETUP] to exit.















### Setting the clock

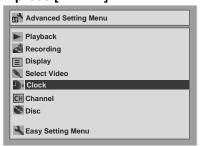
#### **Auto Clock Setting**

Channel Tuning must be set before setting Auto Clock

- 1 In stop mode, press [SETUP].
- 2 Select "Advanced Setting Menu" using [Cursor ▲ / ▼], then press [ENTER].

If it has already appeared, proceed to step 3.

3 Select "Clock" using [Cursor ▲ / ▼], then press [ENTER].



- 4 Select "Auto Clock Setting" using [Cursor ▲ / ▼], then press [ENTER].
- 5 Select "ON" using [Cursor ▲ / ▼], then press [ENTER].

The current time will be set automatically.

- **6** Press [SETUP] to exit.
- **7** Press [STANDBY-ON] to turn off.

The Auto clock function is activated.
This unit will search for the time only when the power is off. Leave the unit off for several minutes to give it time to set the clock.

#### Hint

 If you want to cancel "Auto Clock Setting," select "OFF" using [Cursor ▲ / ▼], and then press [ENTER] at step 5.

#### Note

- The default setting of "Auto Clock Setting" is "OFF."
- The clock may set itself automatically after you connect the antenna cable to the unit and plug in the mains cable. In this case, the current time will appear on the front panel display.
- To set the clock automatically, the channel assigned to position 01 must receive the PDC signal.
- The clock cannot be set automatically if you are not receiving a channel in your area that carries a time signal. In this case, set the clock manually.
- Once the auto clock setting is performed, the unit will correct the current time by receiving PDC broadcasts whenever you turn off the unit.
- The unit will correct the current time automatically at 8:00. if the unit power is turned off.
- Between 23:00 and 1:00, the AUTO CLOCK function will not operate even if the unit power is turned off.

#### Manual Clock Setting

1 In stop mode, press [SETUP].

"Easy Setting Menu" or "Advanced Setting Menu" will appear.

- 2 Select "Clock" using [Cursor ▲ / ▼], then press [ENTER].
- 3 If you select "Advanced Setting Menu," proceed to step 4. If you select "Easy Setting Menu," proceed to step 5.
- 4 Select "Clock Setting" using [Cursor ▲ / ▼], then press [ENTER].
- **5** Press [ENTER] again.

The default date will appear



Enter the date (day / month / year) using [Cursor ▲ / ▼], then press [Cursor ▶].

Press [Cursor ▶] to move the cursor to the next field. If you wish to go back to the previous field, press [Cursor ◄].

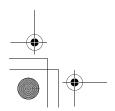
7 Enter the time (hours / minutes) using [Cursor ▲ / ▼], then press [ENTER].

The clock will start.

- Although seconds are not displayed, they will be counted from zero.
- 8 Press [SETUP] to exit.

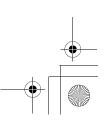
#### Note

 Your clock setting will be lost if either there is a power failure or the unit is unplugged for more than 30 seconds when the "Auto Clock Setting" is "OFF."



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## •

#### Selecting the TV aspect ratio

You can select the TV aspect ratio to match the format of the programme you are playing back with the unit and that of your TV screen (4:3 standard or 16:9 wide screen TV).

- 1 In stop mode, press [SETUP].
- 2 Select "Advanced Setting Menu" using [Cursor ▲ / ▼], then press [ENTER].

If it has already appeared, proceed to step 3.

- 3 Select "Playback" using [Cursor ▲ / ▼], then press [ENTER].
- 4 Select "TV Aspect" using [Cursor ▲ / ▼], then press [ENTER].



5 Select the desired option using [Cursor ▲ / ▼], then press [ENTER].



#### **6** Press [SETUP] to exit.

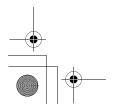
#### Hint

If you have a standard TV:

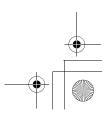
- Select "4:3 Letter Box" for a full width picture with black bars at the top and bottom.
- Select "4:3 Pan & Scan" for a full height picture with both sides trimmed.

If you have a wide screen TV:

• Select "16:9 Wide."













#### Information on DVD recording

#### Type of discs

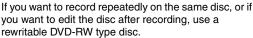
This unit can record on DVD-R and DVD-RW. You can record on DVD-R only once. On DVD-RW, you can record and erase many times

It is possible to record on DVD-R only in Video mode. DVD-RW can record in the format you select from Video mode or VR mode.

Logo

**Attributes** 

8 cm / 12 cm, single-sided, single layer disc Max. recording time (10H mode, approx.): 600 minutes (4.7 GB) (for 12 cm) 180 minutes (1.4 GB) (for 8 cm)



If you want to save recordings without any alteration, use a non-rewritable DVD-R type disc.

· Discs that should or should not be used with this recorder:

DVD-R 8x can be used.

DVD-RW 4x can be used, but 6x or 8x will result in a recording error.

 Discs that were tested and proven as compatible with this recorder:

Maxell DVD-R, TDK DVD-RW 2x, MITSUBISHI DVD-R 8x, JVC DVD-RW 4x

#### Video mode and VR (Video Recording) mode

Video mode is the same recording format as used on the pre-recorded DVD-Videos you purchase in local shops, so you can play back the discs recorded in this format in most DVD players. You will need to finalise such discs (see page 34) before playing them back in other DVD players. Unless finalised, you can play back, record additional materials or edit discs recorded in Video mode with this unit.

VR (Video Recording) mode is a basic recording format for DVD-RW discs. You can record and edit material repeatedly. It is impossible to record additional materials on a disc formatted in VR mode and already recorded in another video system other than PAL, such as NTSC.

• The following disc cannot be used for recording in this unit: DVD-RW 6x

DVD players bearing the RW logo are capable of playing back DVD-RW discs recorded in VR mode.

Disc type	Disc format	Functions
DVD	Video mode  DVD-RW	Playing back, Limited recording, Limited editing
R W	VR mode	Playing back, Recording, Original / Playlist editing
R R 4.7	Video mode	Playing back, Limited recording, Limited editing

#### Recording speed

You can select a recording speed from 6 options. The recording time will vary depending on the recording speed you select as follows.

Recordin	Recording speed		Recording time	
TV screen	Front Panel Display	12 cm	8 cm	Video / Sound Quality
1H	XP	60 min	18 min	Excellent
2H	SP	120 min	36 min	Very good
4H	LP	240 min	72 min	Good
6H	EP	360 min	108 min	Average
8H	SLP	480 min	144 min	Low
10H	SEP	600 min	180 min	Low

- · This table is intended for a standard new singlesided 12 cm disc. The recording times are estimates and actual recording time may differ.
- The audio and video quality becomes poorer as the recording time gets longer.
- · Discs recorded in 8H or 10H on this recorder may not be played back on other DVD recorders or DVD

#### Restrictions on recording

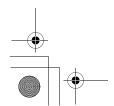
You cannot record copy-protected video using this unit. Copy-protected video includes DVD-Videos and some satellite broadcasts.

If copy-protected material is detected, recording will pause or stop automatically and an error message appears on the screen.

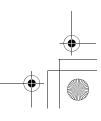
You can only record "Copy-once only" video using a DVD-RW disc in VR mode with Content Protection for Recordable Media (CPRM).

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

CPRM is a scrambling copy protection system for the protection of "copy-once" broadcast programmes. This unit is CPRM compatible, which means that you can record copy-once broadcast programmes, but you cannot then make a copy of those recordings. CPRM recordings can only be played back on DVD players that are specifically compatible with CPRM.







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#### Information on copy control

Some satellite broadcasts include copy-protected information. If you wish to record them, refer to the following.

Disc type / format	Copy- free		Copy- prohibited
ver.1.1 / ver. 1.2 ver.1.1 / ver. 1.2 CPRM compatible	☆	<u> </u>	<u> </u>
ver.1.1 / ver. 1.2 ver.1.1 / ver. 1.2 CPRM compatible	<b>☆</b>	_ ☆	
ØVD-R ver.2.0	☆	_	_

- ☆ Recordable
- Not Recordable

#### Note

- This unit cannot record on CD-RW or CD-R discs.
- DVD-RW / R and CD-RW / R discs recorded on a personal computer or a DVD or CD recorder may not be played back if the disc is damaged or dirty or if there is condensation on the player's lens.
- If you record a disc using a personal computer, even if it is recorded in a compatible format, it may not be played back 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 additional information using other DVD
- · It is not possible to use a DVD-RW disc formatted with this unit in another DVD recorder unless the content of the disc was also recorded with this unit.
- Since recording is performed using the Variable Bit Rate (VBR) method, the actual remaining time for recording may be a little shorter than the remaining time displayed on the OSD, depending on the picture you are recording.

#### Making discs playable in other DVD players (Finalise)

After recording, you must finalise the disc to play it back in other players. (See page 34.) You cannot finalise discs in other DVD recorders.

#### After finalising:

- After a DVD-RW / R disc (Video mode) is finalised, a title menu is created automatically and additional recording or editing is not possible.
- Even if after a DVD-RW disc (VR mode) is finalised, additional recording or editing is possible.
- To play back in other DVD players, finalise discs recorded on this unit.

#### Usable discs

\*\*\*: Most suitable, \*\*: Can be used,

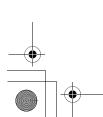
\*: Some functions are limited, -: Cannot be used.

Applications	DVD-RW		DVD-R
Applications	VR	VIDEO	DVD-K
Record TV programmes	***	***	**
Reuse by deleting the current contents	***	**	_
Edit the contents	***	*	*
Edit / Record from external equipment	***	***	***
Copy discs for distribution	**	***	***
Playback on other DVD equipment	**	***	***
Features			
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 programmes	Yes	No	No
Can perform basic editing functions	Yes	Yes	Yes
Can perform advanced editing functions (Playlist edit)	Yes	No	No

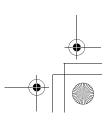
<sup>\*</sup> You can only play back DVD-RW disc recorded in VR mode on VR-compatible discs.

#### Note

 For details of the above functions and restrictions, see the further explanations in this Manual.













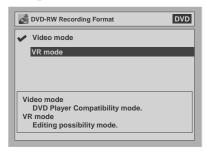
### Formatting a disc

## Choosing the recording format of a blank DVD-RW disc



When inserting a blank disc, the unit automatically starts to initialise the disc. You can also manually format a DVD-RW disc once it has been used. After formatting, you can record on the disc with the recording format selected in the Setting menu.

- 1 In stop mode, press [SETUP].
- 2 If you select "Advanced Setting Menu," proceed to step 3.
  If you select "Easy Setting Menu," proceed to step 4.
- 3 Select "Recording" using [Cursor ▲ / ▼], then press [ENTER].
- 4 Select "DVD-RW Recording Format" using [Cursor ▲ / ▼], then press [ENTER].
- 5 Select "Video mode" or "VR mode" using [Cursor ▲ / ▼], then press [ENTER].



#### 6 Press [SETUP] to exit.

#### Note

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- The recording format setting is effective only for DVD-RW discs. You cannot change the recording format for a DVD-R disc. DVD-R discs are always in Video mode.
- You cannot mix two formats on one DVD-RW disc.
   If you insert a disc that has been recorded before,
   the recording format cannot be changed even if you change it in the Setting menu.
- The unit is not compatible with DVD+RW / R discs. If a blank DVD+R or DVD+RW disc is inserted, the error message ("Disc Error") will appear.
- A Playlist is created automatically during recording on a DVD-RW disc in VR mode.

#### **Setting Auto Chapter**

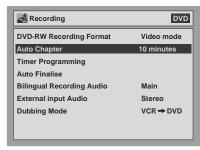
GVD-RW GVD-RW GVD-R

The unit inserts a chapter mark periodically (every 10 minutes by default) during recording. Using the Auto Chapter menu, you can set this function off or change the time period.

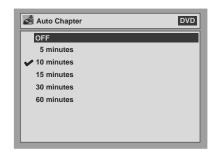
- 1 In stop mode, press [SETUP].
- 2 Select "Advanced Setting Menu" using [Cursor ▲ / ▼], then press [ENTER].

If it has already appeared, proceed to step 3.

- 3 Select "Recording" using [Cursor ▲ / ▼], then press [ENTER].
- 4 Select "Auto Chapter" using [Cursor ▲ / ▼], then press [ENTER].



If you wish to set "Auto Chapter" OFF, select "OFF" using [Cursor ▲ / ▼], then press [ENTER].

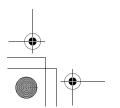


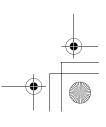
If you wish to change the time period for Auto Chapter, select the required time period using [Cursor  $\blacktriangle$  /  $\blacktriangledown$ ], then press [ENTER].

6 Press [SETUP] to exit.

#### Note

 You cannot set or clear chapter markers on DVD-R discs. (See page 50.)









#### Reformatting a disc manually



If you are using a DVD-RW disc, you can format the disc by performing "Format." By default it will be in Video mode. You can change this to VR mode using the Setting menu.

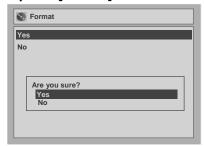
#### Note

 When you reformat the disc, the contents of the disc are erased.

#### Insert a recordable disc.

- 1 In stop mode, press [SETUP].

  "Facy Setting Menu" or "Advanced Setting
  - "Easy Setting Menu" or "Advanced Setting Menu" will appear.
- 2 Select "Disc" using [Cursor ▲ / ▼], then press [ENTER].
- 3 Select "Format" using [Cursor ▲ / ▼], then press [ENTER].
- 4 Select "Yes" using [Cursor ▲ / ▼], then press [ENTER].



A Popup window will appear and prompt you to

If you want to cancel formatting, select "No."

5 Select "Yes" using [Cursor ▲ / ▼], then press [ENTER].

Formatting will start.
If you want to cancel formatting, select "No."

6 Formatting is complete.

100% is indicated.

#### Note

 It is not possible to use a disc formatted with this unit in another DVD recorder. When you use a disc with another DVD recorder, format a disc using that DVD recorder.

## Selecting the Sound mode

This unit can receive bilingual broadcasts.

You can switch between modes by pressing **[AUDIO]** on the remote control. Each mode is indicated on the TV screen as follows.

· During reception of bilingual broadcasts

Mode	Audio output	Display on the TV screen
Main	Main audio from both speakers	Main
Sub	Sub audio from both speakers	Sub
Main / Sub	Main audio from the left speaker     Sub audio from the right speaker	Main / Sub

#### Setting External input audio

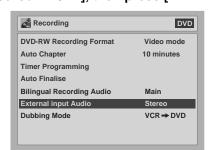


When the external input audio is a bilingual broadcast, or when copying a video tape to a DVD disc, you can choose "Stereo" or "Bilingual" to record on a DVD.

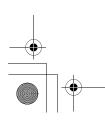
- 1 In stop mode, press [SETUP].
- 2 Select "Advanced Setting Menu" using [Cursor ▲ / ▼], then press [ENTER].

If it has already appeared, proceed to step 3.

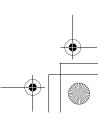
- 3 Select "Recording" using [Cursor ▲ / ▼], then press [ENTER].
- 4 Select "External input Audio" using [Cursor ▲ / ▼], then press [ENTER].













5 Select "Stereo" or "Bilingual" using [Cursor ▲ / ▼], then press [ENTER].



#### 6 Press [SETUP] to exit.

Hint

Stereo: Both modes of Video and VR are recorded

in stereo.

Bilingual: The sound you set by "Bilingual Recording Audio" is recorded in Video mode.

Both sounds of "Main" and "Sub" are

recorded in VR mode. You can select audio modes during playback.

#### **Setting Bilingual Recording Audio**



You can select either "Main" or "Sub" audio to record a bilingual broadcast in Video mode.

- 1 In stop mode, press [SETUP].
- 2 Select "Advanced Setting Menu" using [Cursor ▲ / ▼], then press [ENTER].

If it has already appeared, proceed to step 3.

- 3 Select "Recording" using [Cursor ▲ / ▼], then press [ENTER].
- 4 Select "Bilingual Recording Audio" using [Cursor ▲ / ▼], then press [ENTER].
- 5 Select "Main" or "Sub" using [Cursor ▲ / ▼], then press [ENTER].



**6** Press [SETUP] to exit.

#### **Basic recording**



Follow the steps below to record a TV programme.

## 1 Turn on the unit and insert a recordable disc.

Make sure that the TV input is set on the unit. This operation may take a few moments to complete.

- **2** Press [DVD 🔘].
- 3 Select the recording speed using [REC SPEED] (See page 22.).

Make sure that the recording format is set to the desired mode (see page 24).

- 4 Select the desired channel to record using [PROG.▲ / ▼] or [the Number buttons].
- **5** Press [REC / OTR] to start recording.

The ● mark will be displayed for 5 seconds.

To pause the recording, press [PAUSE II]. Press [REC / OTR] or [PAUSE II] to restart the recording.

## **6** Press [STOP ■] to stop the recording.

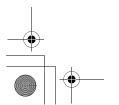
This operation may take a few moments to complete.

#### Hint

 You can change the channel while in the REC pause mode.

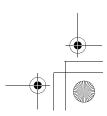
#### Note

- Recording starts immediately and continues until the disc is full or you stop recording.
- If the clock is not set, the date and time space next to title names in the Original or Playlist will be blank.
- You cannot mix two formats on DVD-RW discs. If you insert a previously recorded disc, changing the recording format is not possible even if you change it in the Setting menu.
- You cannot change the recording speed while in the REC or REC pause mode.
- It is possible to record video only in the PAL system.
- During recording, if a signal other than PAL is decoded (such as NTSC), recording is paused.



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## Checking the recording picture and sound quality



Before recording on a DVD, you can confirm the quality of the picture and sound with the recording speed you selected.

#### Make sure that the unit is in STOP or REC mode and a DVD is inserted correctly.

#### **2** Press [REC MONITOR].

The TV will display the programme and output the sound you are about to record in the quality of the picture and sound (determined by the recording speed) you selected.

 If you want to change the recording speed (to improve the recording quality), press [REC SPEED] repeatedly.

The recording speed is changed each time you press the button.

ightarrow 1H(XP) ightarrow 2H(SP) ightarrow 4H(LP) ightarrow 6H(EP) ightarrow 8H(SLP) ightarrow 10H(SEP) -

 You cannot change the recording speed during recording.

#### **3** Press [REC MONITOR] again to exit.

#### Hint

 If you press [REC MONITOR] while receiving the bilingual broadcast, the sound to be recorded is output.

## One-touch timer recording (OTR)

BVD-RW BVD-RW BVD-R

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 remaining for the time you set.

When the recording finishes the recorder automatically switches to the timer-standby mode.

## 1 Turn on the unit and insert a recordable disc.

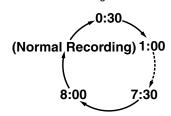
Make sure that the TV input is set on the unit.

- 2 Press [DVD @].
- 3 Select the recording speed using [REC SPEED] (See page 22.).

Make sure that the recording format is set to the desired mode (see page 24).

- 4 Select the desired channel to record using [PROG. ▲ / ▼] or [the Number buttons].
- Press [REC / OTR] repeatedly until the desired recording time (30 minutes to 8 hours) appears on the TV screen.

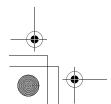
One-touch timer recording will start.



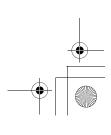
- When the unit reaches the specified time, it will be turned off automatically.
- To change the recording length during onetouch timer recording, press [REC / OTR] repeatedly until the desired length appears.
- To cancel one-touch timer recording within the specified time, press [STOP ■].

#### Hint

- The remaining recording time will appear on the TV screen during one-touch timer recording. Press
   [DISPLAY] to see it on the TV screen.
- The remaining recording time will be displayed on the front panel display during one-touch timer recording.
- Unlike timer recording, you can perform the following operations during one-touch timer recording.
- Turn off the power.
- Use [REC / OTR] or [STOP ■].











#### Note

- You cannot use the pause function during one-touch timer recording.
- The unit will be turned off automatically under the following conditions.
- No space remains on the disc.
- If a power failure occurs.
- If DVD one-touch timer recording is completed during VCR playback or recording, the DVD will be in stop mode and the VCR keeps the current mode.
- When one-touch timer recording is finished and the power is turned off, the unit will switch to the timerstandby mode automatically if a timer recording has been programmed. Press [T-SET] to cancel the timer-standby mode to use the unit continuously.

## Timer recording

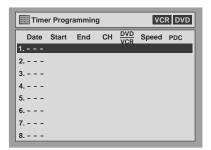


You can set the unit to record up to 8 programmes, up to a month in advance. Daily or weekly programme recordings are also available.

- Be sure to set the clock before entering a timer programming.
- You can select the timer programming list by pressing [TIMER PROG.]. In this case, continue from step 5.

Insert a recordable disc or a tape with a record tab.

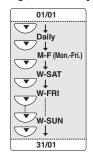
- 1 In stop mode, press [SETUP].
- 2 If you select "Advanced Setting Menu," proceed to step 3. If you select "Easy Setting Menu," proceed to step 4.
- 3 Select "Recording" using [Cursor ▲ / ▼], then press [ENTER].
- 4 Select "Timer Programming" using [Cursor ▲ / ▼], then press [ENTER]. The Timer Programming list will appear.
- 5 Select a programme that is not set using [Cursor ▲ / ▼], then press [ENTER].



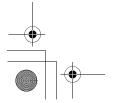
**6** Enter the date using [Cursor ▲ / ▼], then press [Cursor ▶].

Each time you press [Cursor ▼] at the current date, the timer recording mode will change as follows.

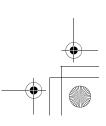
#### e.g., 1st January











- 7 Enter the time to start and to end using [Cursor ▲ / ▼], then press [Cursor ▶].
- 8 Select the channel number to record using [Cursor ▲ / ▼], then press [Cursor ▶].

To record from external input, select "AV1," "AV2" or "AV3."

- 9 Select the recording media ("DVD" or "VCR") using [Cursor ▲ / ▼], then press [Cursor ▶].
- 10 Select the recording speed using [Cursor ▲ / ▼], then press [Cursor ▶].

Refer to "Recording speed" on page 22 for DVD or page 63 for VCR.

- 11 Select PDC "ON" or "OFF" using [Cursor ▲ / ▼] (See page 30).
- 12 Press [ENTER] when all information required is entered.

Your programme setting is stored.

- To set another programme, repeat steps 5 to 11.
- To exit, press [SETUP] or [TIMER PROG.].
- If the recording times of two or more programmes overlap, "Overlap" and overlapped programme numbers are displayed. (See page 29 and 31.)



#### 13 Press [T-SET].

The oicon will appear on the front panel display and the unit enters to the timer-standby mode.

#### Note

- If you have not set the clock, the clock setting window will appear after step 4. Continue from step 4 in "Manual Clock Setting" on page 20 before programming the timer.
- Press [Cursor ◀/▶] to move the cursor in the timer programming menu.

- If a basic recording or one-touch timer recording is in progress on one component (e.g. VCR) and the timer recording set for the other component (e.g. DVD) is about to begin, the unit automatically switches to the programmed channel for timer recording 2 minutes before the programmed starting time, and the recording in progress (for VCR) will be cancelled UNLESS their recording channels are the same. If their recording channels are the same, the timer recording will start without cancelling the recording currently in progress. In this case, the recording of the same channel will be made on both DVD and VCR.
- Cancel the timer-standby mode by pressing [T-SET] before operation for either DVD or VCR. When finished operating, press [T-SET] to resume the timer-standby mode.

#### If PDC is "ON":

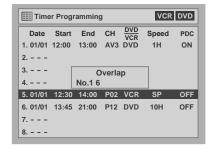
 In the timer-standby mode, you can neither turn on the power nor use the component (VCR or DVD) which is not currently timer-programmed.

#### If PDC is "OFF":

 In the timer-standby mode, you can turn on the power and use the component (VCR or DVD) which is not currently timer-programmed.

## Checking, cancelling, or correcting the timer programming information

In the following example, No. 5 timer programming overlaps on No. 1 and No. 6 timer programmes. In such a case, you should correct the programme time to clear the overlap.



- 1 Press [T-SET] so that the icon disappears from the front panel display.
- **2** Press [TIMER PROG.].

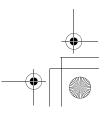
Timer programming list will appear.

- 3 Check the information on the list you will need.
- 4 To clear the timer programming, select the desired programme using [Cursor ▲ / ▼], then press [CLEAR].

To correct the timer programming

- 1)Select the desired programme using
- [Cursor ▲ / ▼], then press [ENTER].
- 2)Correct the timer programming using [Cursor ▲ / ▼ / ◀ / ▶].
- 3)Press [ENTER] again.

•







#### **5** Press [TIMER PROG.] to exit.

#### **6** Press [T-SET] to return to the timer stand-by mode.

To check the timer programming in process Press [TIMER PROG.].

#### Note

- If a timer recording is proceeding, that programme is highlighted in red. In such a case, you cannot select any other programmes.
- When you check the timer programming in progress by pressing [TIMER PROG.] during operations of the component (DVD or VCR) which is not currently used for the timer recording, the programme will not be highlighted. In this case, you cannot select other programmings.

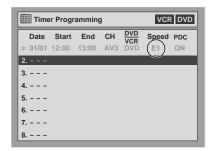
#### To stop the timer recording in progress

On the front panel of the unit, press [STOP ■] to stop the disc recording or [STOP / EJECT ■▲] to stop the tape recording.

• [STOP ■] on the remote control is not effective.

#### If the timer programming did not complete correctly

The error number appears on the timer programming



The error programme will be displayed in grey with an asterisk and have an error number.

#### The error numbers indicate:

E1-E22, E37-E39: Recording error

E23-E24: Unrecordable disc

E25:•Copy prohibited programme

•Cannot record because of the NTSC / PAL-60 signal is received.

E26-E28: Copy prohibited programme

E29: Disc protected

E30: Disc full

E31: Already recorded 99 titles (Video mode)

E32: Already recorded 99 titles (VR mode)

E33: Already recorded 999 chapters

E34: No space for Control Information E35: PCA (Power Calibration Area) full

E36: Already finalised Video format disc E40:•There are some unrecorded parts due the overlapped timer programmes.

- •Recording did not start at the start time.
- •There is no tape in the cassette compartment.
- •Tape recording reaches to the tape end during timer recording.

E41: Power failure

E42: No disc

The error programme will be deleted once you check the error in the programme list, or once you cancel the timer-standby mode and re-enter it.

Press [CLEAR] to erase the selected programme.

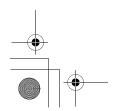
#### PDC (Programme Delivery Control)

The Programme Delivery Control (PDC) assures that the TV programmes you have programmed for timer recording are recorded exactly from beginning to end, even if the actual broadcasting time differs from the scheduled time due to a delayed start or extension of the programme duration. Furthermore, if a programme is interrupted, the recording will also be interrupted automatically and resumed when the programme starts again.

If the PDC signal drops out because the broadcast signal is weak, or if a broadcasting station does not transmit a regular PDC signal, the timer recording is performed in normal mode (without PDC) even if it was programmed for PDC. If the starting time of the PDC timer recording is between 0:00 and 3:59 on a given day, the PDC function will operate from 20:00 on the previous day to 4:00 on the given day. If the starting time of the PDC timer recording is between 4:00 and 23:59 on a given day, the PDC function will operate from 0:00 on the day to 4:00 on the given day. This means that if the relevant programme is broadcasted within this period, it is recorded correctly. If the timer is not programmed correctly, the incorrect timer setting stays in effect unless you cancel it. To cancel an incorrect timer setting, refer to "Checking, cancelling, or correcting the timer programming information" on page 29.

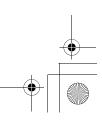
#### Hints for timer recording

- If there is a power failure or the unit is unplugged for more than 30 seconds, the clock setting and all timer settings will be lost.
- If there is no disc or an unrecordable disc in the tray. the DVD indicator will flash and timer recording will not occur. Insert a recordable disc.
- If there is no tape or 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 timer recordings are complete, the icon flashes. To play back or eject the recorded disc, press [T-SET], and then press [PLAY ▶] or [OPEN / CLOSE / EJECT ▲].



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- The timer recording cannot be performed in DVD and VCR at the same time. If you set two programmings with the same channel and time both in DVD and VCR, the programming that has priority will be recorded.
- You cannot make any DVD operation during DVD timer recording.
- You cannot make any VCR operation during VCR timer recording.
- If the Start and End times are same, the length of the recording will be set for 24 hours. If the disc becomes full during recording, the unit will turn itself off. To continue recording, press [T-SET] to cancel the timer stand-by mode, insert a recordable disc and press [T-SET] again.
- If two or more programmes overlap, "Overlap" and the overlapped programme number will appear on the display.
- If the Start time is earlier and the End time is later than the current time, the recording will start immediately after you press [T-SET].
- If a videotape ends during timer recording, the unit will automatically stop, eject the videotape, and turn itself off. To continue recording, insert a recordable tape.

#### Priority of overlapped settings

The unit records programmes according to priority if timer programmes overlap.

#### If the starting time is same:

• The timer programming set first (PROG. 1) has priority.



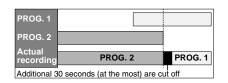
## If programming has been made at the end of the programming (PROG. 1) currently being recorded:

 The timer programming set first (PROG. 2) has priority. PROG. 3 will not be recorded.



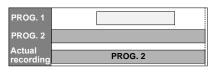
#### If the recording time is partially overlapped:

 The timer programming with the earlier start time (PROG. 2) has priority. PROG. 1 will start after PROG. 2 recording is complete.



#### If the recording time entirely overlaps:

 The shorter timer programming (PROG. 1) is not recorded.

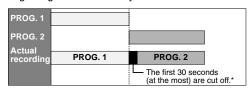


#### Note for DVD recording

 If the recording time of two programmes overlap, or the End time of a programme and the Start time of another is same, the first 30 seconds (at the most) of the subsequent programme are cut off.

## If the End time of the programme currently being recorded and the Start time of the subsequent programme are same:

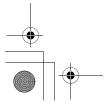
• If PROG. 1 is a DVD recorded programme, the beginning of PROG. 2 may be cut off.



\* If the cut off time exceeds 1 minute, the error number "E40" will appear in the timer programming list.



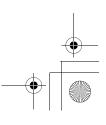






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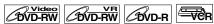








#### Connection to external equipment



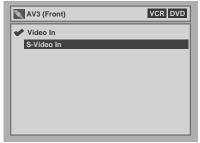
Connect the external equipment using either the input jacks, AV1, AV2, (Rear) or AV3 (Front). However, for AV3 jacks, you have to select S-VIDEO input or VIDEO input jacks depending on the connected devices

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

- 1 In stop mode, press [SETUP].
- 2 Select "Advanced Setting Menu" using [Cursor ▲ / ▼], then press [ENTER].

If it has already appeared, proceed to step 3.

- 3 Select "Select Video" using [Cursor ▲ / ▼], then press [ENTER].
- 4 Press [ENTER].
- 5 Select the input jack type to be used using [Cursor ▲ / ▼], then press [ENTER].



- If you want to use VIDEO input jack (Composite), select "Video In."
- If you want to use S-VIDEO input jack, select "S-Video In."
- 6 Press [SETUP] to exit.

#### Recording from external equipment



Before recording from external equipment, see page 16 for connection instructions.

Turn the TV and the unit on, and select the input of the TV to which the unit is connected. When you want to record to the disc:

Press [DVD ⊚].

Press [OPEN / CLOSE / EJECT ▲] to open the disc tray, then place the disc to record on.

Press [OPEN / CLOSE / EJECT ▲] again to close the disc tray.

When you want to record to a tape:

Press [VCR OO].

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

3 Select the input terminal to which the external equipment is connected. (AV1, AV2 or AV3)

To use the input jacks on the back of the unit, select the "AV1," "AV2," position by pressing [0], [0], [1] or [0], [0], [2] on the remote control or using [PROG. ▲ / ▼].

To use the input jacks on the front of this unit, select "AV3" position by pressing [0], [0], [3] on the remote control or using [PROG. ▲ / ▼].

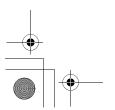
4 Select a recording speed using [REC SPEED].

Refer to "Recording speed" on page 22 for DVD or page 63 for VCR.

- **5** Press [RECORD] on the unit to start recording.
- 6 Press the PLAY button on the external recording component.
- 7 For disc:
  Press [STOP ■] on the unit to stop recording.

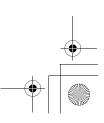
#### For tape:

Press [STOP / EJECT■▲] on the unit to stop recording.



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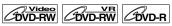








#### **Dubbing Mode**







You can copy a DVD disc to a videotape or copy a videotape to a DVD disc. This function will be available 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. See pages 22 and 63.

#### 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. See pages 22 and 23.

Insert a disc and a tape with a record tab.

- 1 In stop mode, press [SETUP].
- 2 Select "Advanced Setting Menu" using [Cursor ▲ / ▼], then press [ENTER].

It has already appeared, proceed to step 3.

- 3 Select "Recording" using [Cursor  $\blacktriangle$  /  $\blacktriangledown$ ], then press [ENTER].
- Select "Dubbing Mode" using [Cursor  $\triangle$  /  $\nabla$  /  $\triangleleft$  /  $\triangleright$ ], then press [ENTER].

Option window will appear.

#### VCR to DVD

5 Select "VCR→DVD" using [Cursor  $\blacktriangle$  /  $\blacktriangledown$ ], then press [ENTER].



- **6** Press [SETUP] to exit the setting menu.
- **7** Press [DVD ⊚]. Make sure to select a recording speed using [REC SPEED]. (See page 22.)
- **8** Press [VCR 🙃 ].

#### Press [PLAY ▶] on the unit, and then press [PAUSE II] at the point you wish to start recording.

**10** Press [DUBBING].

VCR to DVD duplication will start.

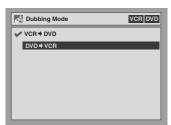
11 Press [STOP ■] to stop the recording.

#### Note For VCR to DVD duplication:

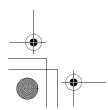
- · After starting VCR to DVD duplication, the picture may be distorted because of the auto tracking function. This is not a malfunction. Be advised to play back the tape until the picture is stabilized, then set the starting point which you wish to start recording, and start VCR to DVD duplication.
- If the playback sound mode of VCR is set to "STEREO," "LEFT" or "RIGHT," the sound mode upon dubbing is automatically switched to "STEREO." If the playback sound mode is set to "MONO," the sound mode upon dubbing is also "MONO."
- · If you set "External input Audio" to "Stereo," the sound is recorded in "Stereo" (both Video mode and VR mode).
- While in video mode, if you set "External input Audio" to "Bilingual," the audio set in "Bilingual Recording Audio" mode is recorded. While in VR mode, if you set "External input Audio" to "Bilingual," bilingual audio is recorded.
- · The main and sub audio will be simultaneously recorded (VR mode). You can select audio modes during playback.

#### DVD to VCR

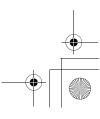
5 Select "DVD→VCR" using [Cursor  $\blacktriangle$  /  $\blacktriangledown$ ], then press [ENTER].



- 6 Press [SETUP] to exit the setting menu.
- Press [VCR 00]. Make sure to select a recording speed using [REC SPEED]. (See page 63)
- 8 Press [DVD 🔘].
- 9 Press [PLAY ▶] on the unit, and then press [PAUSE II] at the point you wish to start recording.











#### 10 Press [DUBBING].

DVD to VCR duplication will start.

11 Press [STOP ■] to stop the recording.

#### Note

- When you turn off the unit after setting the Dubbing Mode to DVD

  VCR, 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.

## Setting a disc to protect



To prevent accidental over-recording, editing or erasing of recordings, you can protect them using the Setting menu.

#### Insert a recordable disc.

- In stop mode, press [SETUP].
  "Easy Setting Menu" or "Advanced Setting Menu"
- 2 Select "Disc" using [Cursor ▲ / ▼], then press [ENTER].
- 3 Select "Disc Protect OFF → ON" using [Cursor ▲ / ▼], then press [ENTER].
- 4 Select "Yes" using [Cursor ▲ / ▼], then press [ENTER].

The disc is protected.

#### Note

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- The Disc Protect setting is available only when a disc recorded in VR mode is inserted.
- • You can select only "Disc Protect ON  $\rightarrow$  OFF" when a protected disc is inserted.

#### To cancel the disc protect:

- Select "Disc Protect ON → OFF" at step 3, then select "Yes."
- If you insert a disc protected with this unit, "Disc Protect ON → OFF" will appear instead of "OFF → ON"

## Finalising discs

GOVD-RW GOVD-RW GOVD-R

You will need to finalise discs to play them back in other players.

Finalising may take from 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.)

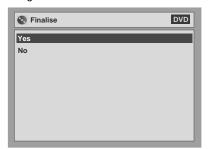
A shorter recording period on the disc will require a longer time period for finalisation. Do not unplug the mains cable during finalisation.

## Insert a recordable disc before finalising.

- In stop mode, press [SETUP].

  "Easy Setting Menu" or "Advanced Setting Menu"
  - "Easy Setting Menu" or "Advanced Setting Menu" will appear.
- 2 Select "Disc" using [Cursor ▲ / ▼], then press [ENTER].
- 3 Select "Finalise" using [Cursor ▲ / ▼], then press [ENTER].
- 4 Select "Yes" using [Cursor ▲ / ▼], then press [ENTER].

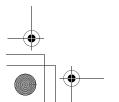
Finalising will start.



#### To cancel finalising (DVD-RW only):

At step 4, press [STOP ■], select "Yes," then press [ENTER]. Finalising is cancelled and the unit switches to stop mode.

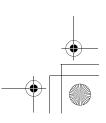




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If **⊘** appears when **[STOP ■]** is pressed, you cannot cancel finalising because the finalising has already reached at a critical point in its process.

If "No" is selected and [ENTER] or [RETURN ] pressed, finalising is continued.

You cannot cancel finalising a DVD-R disc once it has started.

#### **5** Finalising is complete.

#### Hint

- Finalising a disc in Video mode automatically creates a title menu.
- You can use the unit to record or edit a disc recorded in VR mode even after it is finalised. After you finalise a disc recorded in Video mode, you cannot edit or record anything else on that disc.
- To reverse the finalisation of the disc, select "Undo Finalise" at step 3.

#### Note

- If you insert a DVD-RW disc finalised with this unit, "Undo Finalise" will appear instead of "Finalise."
- DO NOT power off during finalising. This may result in a malfunction.

#### Auto finalise



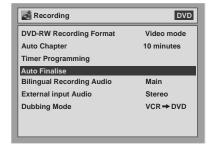


You can finalise discs automatically when the disc space runs out if you set this in the Setting menu.

- 1 In stop mode, press [SETUP].
- 2 Select "Advanced Setting Menu" using [Cursor ▲ / ▼], then press [ENTER].

If it has already appeared, proceed to step 3.

- 3 Select "Recording" using [Cursor ▲ / ▼], then press [ENTER].
- 4 Select "Auto Finalise" using [Cursor ▲ / ▼], then press [ENTER].



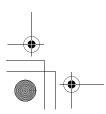
- **5** Press [ENTER].
- **6** Select "ON" using [Cursor ▲ / ▼], then press [ENTER].
- **7** Press [SETUP] to exit.

#### Note

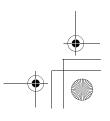
 Auto finalise function is not available for discs formatted in VR mode.

Recording















## Playing back discs

## Information on playing back DVDs

Read the following information before you play back a

#### Playable discs

You can play back all the discs listed below in this unit. Before attempting to play back a DVD, make sure it meets the requirements for Region Codes and Colour Systems as described in this section. Discs that bear any of the logos shown below will be played back correctly in this unit. Other Disc types are not guaranteed to be played back.

guaranteed to be played back.	
Disc	Logo
DVD-Video	VIDEO
DVD-RW (VIDEO/VR mode)	<b>DVD</b>
DVD-R (VIDEO mode)	R R 4.7
DVD+RW*	RW DVD+ReWritable
DVD+R*	RW DVD+R
CD-DA (AUDIO CD)	COMPACT COMPACT DIGITAL AUDIO
VCD (VIDEO CD)	DIGITAL VIDEO VIDEO CD
CD-RW (CD-DA FORMAT, MP3, JPEG files)	ReWritable
CD-R (CD-DA FORMAT, MP3, JPEG files)	COMPACT COMPACT Recordable
Kodak Picture CD	Kodak Picture CD COMPATIBLE

<sup>\*</sup> There may be a disc which cannot be used or played back.

is a trademark of DVD Format / Logo Licensing Corporation.

#### Colour systems

DVDs are recorded using different colour systems throughout the world. The most common colour system, used primarily in the U.K. and other EU countries, is PAL.

This unit uses the PAL system. However, it is also possible to play back DVDs using other colour systems, such as NTSC.

#### Region codes

This unit has been designed to play back DVDs within Region Two (2). It is only possible to play back DVDs in this unit that are labelled for Region 2 or for ALL regions. You cannot play back DVDs that are labelled for other regions. Look for DVDs that bear either of the symbols shown below. If these region symbols do not appear on your DVD, you cannot play back the DVD in this unit.



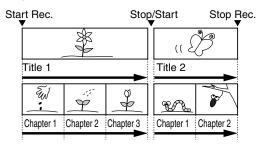


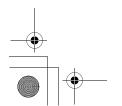
The number inside the globe refers to region of the world

A DVD labelled for a specific region can only be played back in the unit with the same region code.

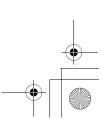
#### Hint for DVD playback

The contents of a DVD are generally divided into titles. Titles are sometimes further subdivided into chapters.











# **Basic playback**

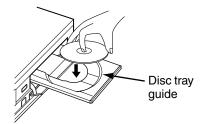
# Playing back a DVD-RW / DVD-R / DVD+RW / DVD+R disc



1 Press [STANDBY-ON] to turn on the unit.

To play back a DVD, turn the TV on and be sure to select the input to which the unit is connected.

- 2 Press [DVD @].
- 3 Press [OPEN / CLOSE / EJECT ▲] to open the disc tray.
- 4 Place the disc on the disc tray with its label facing up. Be sure to align the disc with the disc tray guide.



- 5 Press [OPEN / CLOSE / EJECT ▲] to close the disc tray.
- **6** Press [TOP MENU] to display the title menu.

You can switch between the "Original" and "Playlist" in the VR mode using [MENU / LIST].

7 Select the desired title using [Cursor ▲ / ▼ / ◀ / ▶], then press [ENTER].

Playback will start.

8 Press [STOP ■] to stop playback.

To eject the disc, press

[OPEN / CLOSE / EJECT ▲] to open the disc
tray, then remove the disc. Press

[OPEN / CLOSE / EJECT ▲] to close the disc
tray before turning off the unit.

### Hint

- For DVD-R (Video mode) and DVD-RW (Video mode) discs that are already finalised, a title list will be displayed instead of thumbnails.
- If you insert a DVD-RW recorded in VR mode and it has a Playlist, the Playlist is displayed.
- You can resume playback from where you stopped playing back the disc (Resume playback).
   See page 41 for details.

### Note

· Some discs may start playback automatically.

### Playing back a DVD-V / CD / Video CD



- 1 Follow steps 1 to 5 in "Playing back a DVD-RW / DVD-R / DVD+RW / DVD+R disc."
- 2 Press [PLAY ▶] to start playback.

Playback will start.

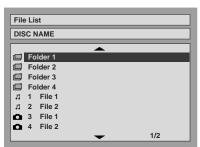
If you are playing back a DVD-Video or a Video CD, a menu may appear. See pages 38 - 40 for details.

3 Press [STOP ■] to stop playback.

## Playing back an MP3 / JPEG



- 1 Follow steps 1 to 5 in "Playing back a DVD-RW / DVD-R / DVD+RW / DVD+R disc."
- 2 In stop mode, press [TOP MENU] and select the MP3 / JPEG menu.



To exit the menu, press [TOP MENU] again.

3 Press [Cursor ▲ / ▼] to select the desired folder (group) or track, then press [ENTER].

If a track is selected:

Playback will start.

### If a folder is selected:

The files in the folder will appear.

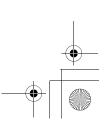
Press [Cursor  $\triangle$  /  $\nabla$ ] to select the track or folder you want, then press [ENTER].

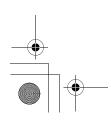
- Press [PLAY ▶], [ENTER] or [Cursor ▶] to move to any lower folders.
- Press [Cursor ◀] or [RETURN ←] to move back to the folder above.
- Press [STOP ■] to return to the first item.

### Hints for MP3/JPEG files:

- Folders are known as Groups, files are known as Tracks.
- Folders are shown with the 
   icon.







- MP3 files are shown with the 🞵 icon. Playback will start from the selected track and continue with each one after.
- JPEG files are shown with the icon.
- The unit can recognize up to 255 groups (or folders) and up to 255 tracks.
- The name of each group and track can be displayed using up to 29 characters. Unrecognisable characters are replaced with asterisks.
- Unplayable groups and tracks may be displayed depending on the recording conditions.
- For MP3 file recorded in Variable Bit Rate (VBR), the unit may not display the actual elapsed time.
- If there are no files in the folder, "No Files" is displayed.
- High resolution or large-size JPEG files take a few moments to be displayed.
- It is not possible to play back progressive JPEGs (JPEG files saved in progressive format) on this unit.
- It is not possible to play back JPEG files of 2.2 MB or more.

It is recommended that files to be played back in this unit are recorded under the following specifications:

- Sampling frequency: 44.1 kHz or 48 kHz.
- Constant Bit Rate: 112 kbps to 320 kbps.

### [JPEG] Size of picture

- Upper limit: 6300 x 5100 dots
- Lower limit: 32 x 32 dots
- Capacity limit: less than 2.2 MB

 During JPEG playback, press [Cursor ▶] or [Cursor ◀] to rotate a picture 90 degrees clockwise or counterclockwise respectively. (Not available when the display menu appears.)

## Note

- MP3 files cannot be recorded as digital sound using an MD or DAT deck.
- Files with extensions other than ".mp3 (MP3)" or '.jpg / .jpeg (JPEG)" will not be listed in the File List.
- · Some folders or tracks listed in the File List may be unplayable due to their recording status.
- The File List displays only up to 8 folder and file names.

### **Kodak Picture CD**

The Picture CD is a service to convert photographs taken by a conventional film camera into digital data and write the data on a CD. You can enjoy picture images on the TV set by playing back the Picture

For details of Kodak Picture CD, contact a shop that provides developing service of Kodak Inc.

### Press [DVD (1)] first.

Press [TOP MENU].



• To exit the Picture CD thumbnail List, press [TOP MENU] again or press [STOP ■].

If all menu items cannot be displayed in the screen scope, the → appear at the right bottom and the - appear at the left bottom of the screen and you can view other items on the next or previous page. The track number of the items currently played back is highlighted.

If the → is shown at the right bottom, use

[Cursor ▶] to view the next page. If the ← is shown at the left bottom, use [Cursor ◀] to view the previous page.

It may take some time until all menu items are

displayed on the menu screen.

Press [Cursor ▲ / ▼ / ◀ / ▶] to select a desired track to be played back, then press [PLAY ▶] or [ENTER].

An image will be played back from the selected track and go to the next one in turn.

Press [STOP ■] to stop playback.

Notes on JPEG and Kodak Picture CD: After track is displayed for 5 seconds or 10 seconds (set in the "Slide Show") the display moves to the next track.

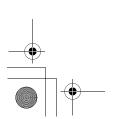
During JPEG or Kodak Picture CD playback, press [Cursor ▶] or [Cursor ◀] to rotate a picture 90 degrees clockwise or counterclockwise respectively. (Not available when the display menu appears.)

## Playing back discs using the disc menu

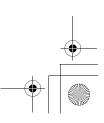
ØVD-V

A DVD contains a disc menu, which lists the contents and enables you to customize playback. The menu may offer choices for subtitle languages, special features, and chapter selection. Usually this information appears automatically when you start playback, but sometimes you need to press [MENU / LIST] to display the menu.

Press [DVD 🔘] first.









1 Press [MENU / LIST].

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

2 Select an item using [Cursor ▲ / ▼ / ◀ / ▶], then press [ENTER].

Repeat this step until all the features you want are set up or to start playing back the disc from the menu. The following operations are available.

### [MENU / LIST] button:

Displays the DVD menu, which will vary among discs, and may be same with the Title menu.

### [Cursor $\blacktriangle$ / $\blacktriangledown$ / $\blacktriangleleft$ / $\blacktriangleright$ ] buttons:

Move the cursor from item to item on the screen.

### [ENTER] button:

Selects the currently highlighted menu option.

### [the Number buttons]:

Selects a numbered menu option (available on certain discs).

3 Press [MENU / LIST] to exit the disc menu.

### Note

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

# Playing back a disc using the title menu



Some DVDs have a title menu, which lists the titles available on the DVD. You can start playing back such discs at a specific title.

### Press [DVD @] first.

## 1 Press [TOP MENU].

The title menu will appear.

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

# 2 Select a desired item using [Cursor ▲ / ▼ / ◀ / ▶], then press [ENTER].

The disc will start playing back at the title you selected. The following operations are available.

### [TOP MENU] button:

Displays the DVD "Title menu" which will vary between discs.

### [Cursor $\blacktriangle$ / $\blacktriangledown$ / $\blacktriangleleft$ / $\blacktriangleright$ ] buttons:

Move the cursor from item to item on the screen.

### [ENTER] button:

Selects the currently highlighted menu option.

### [the Number buttons]:

Selects a numbered menu option (available on certain discs).

# **3** Press [TOP MENU] to exit.

### Note

- [TOP MENU] will not be available for some DVDs.
- Menus vary among discs. Refer to the information accompanying the disc for details.

Plaving back discs















## **PBC function for Video CDs**



This unit conforms to ver.1.1 and ver.2.0 of the Video CD standard playback control (PBC) function. This enables you to play back interactive software using menu screens. Refer to the information accompanying the Video CD.

Ver.1.1 (without PBC function): You can still enjoy playback of pictures and music from the CD. Ver.2.0 (with PBC function): "Pbc" will appear on the screen and display when playing back a Video CD with the PBC function.

### Hint

 When playing back Video CDs with the PBC function, "Pbc" is displayed instead of the playing back time and current track indications on the front panel display.

### Note

- Some operations cannot be performed unless the function is cancelled either automatically or intentionally by you.
- Operations that are not available when the PBC function is set to "ON" are indicated by the following symbol in this manual:



# Playing back a Video CD using the title menu



- 1 When playing back a Video CD with the PBC function, the title menu will appear automatically.
- **2** Press [the Number buttons] to select the desired title.

Playback will start at the selected title.

3 Press [RETURN →] to go back to the title menu.

### Note

ΕN

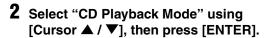
• While the on-screen display appears, you cannot perform steps 2 and 3.

# Cancelling and Recalling the PBC function

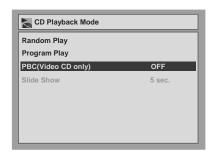
Insert a Video CD.

1 In stop mode, press [SETUP].

"Easy Setting Menu" or "Advanced Setting Menu" will appear.



3 Select "PBC (Video CD only)" using [Cursor ▲ / ▼], then press [ENTER].



- 4 Select "OFF" using [Cursor ▲ / ▼], then press [ENTER].
- **5** Press [SETUP] to exit.

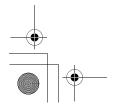
To recall the PBC function, select "ON" in step 4 above.

### Note

• The default setting of "PBC (Video CD only)" is "ON."

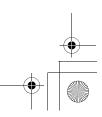














# •

# Special playback

## Resume playback

BVD-V BVD-RW BVD-RW BVD-R

BVD+RW BVD+R BD BCD MP3



You can resume playback from the point where you stopped it before.

# **1** During playback, press [STOP ■].

The resume message will appear.

# 2 Press [PLAY ▶].

In a few seconds, playback will resume from the point at which you stopped it before. Even if you turn off the unit, you can resume playback at the same point after turning on the unit back.

To cancel the resume playback and start playing back the disc from the beginning:

Press [STOP ■] twice while playback is stopped.

### Note

- For Video CDs, if you turn PBC on using the setting menu, the resume function is cancelled.
- For MP3 and JPEG files, playback will resume from the beginning of the track at which playback was stopped.

### Fast forward / Fast reverse

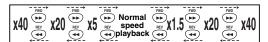


# 1 During playback, press [►►] or [◄◄].

Each time you press [►►] or [◄◄], the approximate speed will change as follows.

To output sound from DVDs during fast forward at x1.5 speed, set "Fast Forward with Audio" to "ON" for the "Playback" setting in the Advanced Setting menu.

Fast forward or fast reverse playback across titles (for DVDs) or tracks (for MP3) is not possible.



- For Audio CDs, approximate speed is fixed at x8 with sound.
- For Video CDs, approximate forward speeds are x1.5, x8 and x16, and approximate reverse speeds are x2, x8 and x16.
- For MP3 files, approximate speed is fixed at x16.
- To return to playback at normal speed, press [PLAY ▶].

### Hint

 Forward / reverse speeds are indicated with icons as follows.

Forward (Approx. Speed):

x1.5:▶▶

x20: ►₩

x40: ▶₩

Reverse (Approx. Speed):

x5: ► **4** x20: ► **4** 

x40: ►••

# Skipping TV commercials during playback

BVD-V BVD-RW BVD-RW BVD-R

To skip TV commercials and enjoy recorded programmes without any interruptions, press [CM SKIP].

## 1 During playback, press [CM SKIP].

Normal playback will start 30-second advanced point from the point at which you press [CM SKIP]. Each time you press [CM SKIP], the start point will move another 30 seconds forward and playback resume automatically.

You can press [CM SKIP] up to 6 times (180 seconds).

### **Pause**



# **GPEG**

# 1 During playback, press [PAUSE II].

Playback will pause with the sound muted.

# 2 Press [PLAY ▶] to resume playback.

For JPEG files, playback will start from the beginning of the track.

## Step by step playback



# 1 During playback, press [PAUSE II].

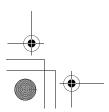
# 2 Press [SKIP I◄◄ / ►►I] repeatedly.

Each time you press [SKIP ►►], playback will go forward one frame (or step) at a time with the sound muted.

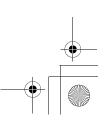
To go backward one frame (or step), press [SKIP I◀◀].

Press and hold [SKIP ►►I] to continue going forward.

To continue going backward, press and hold [SKIP I◄◄].









## 3 Press [PLAY ▶] to resume playback.

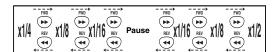
 Only step by step forward is available when playing back Video CDs.

## Slow forward / Slow reverse playback



1 During playback, press [PAUSE II], then press [▶▶] or [◄◄].

Each time you press [▶▶] or [◄◄], the approximate speed change as follows. (The sound will remain muted.)



To return to normal playback, press [PLAY ▶].

 Forward / reverse speeds are indicated with icons as follows.

Forward (Approx. Speed):

x1 / 16:

x1 / 8: ▶₩

x1 / 2: ▶₩

Reverse (Approx. Speed):

x1 / 16: **▶**≺

x1 / 8: ▶◀

x1 / 4: ▶⋘

· Only slow forward is available when playing back Video CDs.

### Zoom



1 During playback, press [ZOOM].



Four options are available, x1.0, x1.2, x1.5 and x2.0. These are displayed excluding the current

### Hint

FΝ

You can also select the zoom function by pressing [DISPLAY]. In this case, press [DISPLAY] first, select the (1) icon using [Cursor ◀ / ▶], and then press [ENTER].

2 Select the desired zoom factor to zoom using [Cursor ▲ / ▼], then press [ENTER].

The zoom area is displayed.

3 Select the desired zoom position using [Cursor ▲ / ▼ / ◀ / ▶], then press [ENTER].

Zoom playback will start.

- To exit the zoom menu, press [ZOOM] at step 1.
- To cancel the zoom function, select x1.0 using [Cursor ▲ / ▼], then press [ENTER].

- · If selecting a smaller factor than that currently selected, the zoom area is not displayed.
- You cannot slide the zoomed picture on some JPEG

### Marker Setup



You can assign a specific point on a disc to return

- 1 During playback, press [DISPLAY].
- 2 Select the M icon using [Cursor ◀/▶], then press [ENTER].

Marker setup menu for DVD-Video mode



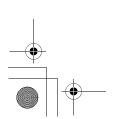
Marker setup menu for Audio CD mode



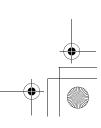
3 Select the desired marker number using [Cursor ▲ / ▼]. When the disc reaches the desired point, press [ENTER].

The title (track) number and the time are displayed.

4 To return to the marker later, select the desired marker number using [Cursor  $\blacktriangle$  /  $\blacktriangledown$ ], then press [ENTER].











### Hint

- To clear a marker, select the marker number you wish to clear, then press [CLEAR].
- · You can mark up to 6 points.

### Note

- All markers are erased when you perform the following operations.
- Open the disc tray.
- Turn off the power.
- Record on a recordable disc.
- Change the mode between Original and Playlist. (VR mode)

## Search

### Title / Chapter search



### Using [SKIP I◀◀ / ▶▶I] buttons

1 During playback, press [SKIP ▶▶I] to skip the current title or chapter and move to the next.

The unit moves to the next title or chapter one after the other.

To go back to the previous title or chapter, press [SKIP I◄◄] repeatedly.

### Using the [DISPLAY] button

- 1 During playback, press [DISPLAY].
- 2 Select the icon using [Cursor 1, ▶], then press [ENTER].

  ☐ for the title number is highlighted.

### Searching for a Title:

3 Enter the desired title number to search for using [Cursor ▲ / ▼] or [the Number buttons], then press [ENTER].

Title search will start.

### Hint

 Total number of chapters and playback time of the selected title are also displayed.

### Searching for a Chapter:

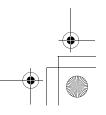
- 3 Press [Cursor ◀ / ▶] to highlight the number displayed in the right side of the ☑ icon.
- 4 Enter the desired chapter number to search for using [Cursor ▲ / ▼] or [the Number buttons], then press [ENTER].

Chapter search will start.

### Hint

 The title number and playback time of the selected chapter are also displayed.











### Track search







### Using [SKIP I◄◄ / ▶▶I] buttons

1 During playback, press [SKIP ▶►I] to skip the current track and move to the next.

The unit moves to the next track one after the other.

To go back to the previous track, press [SKIP I◄◄] repeatedly. The unit moves backward one track at a time.

### Using the [DISPLAY] button

- 1 During playback, press [DISPLAY].
- 2 Select the @ icon using [Cursor ◀ / ▶], then press [ENTER]. for the track number is highlighted.
- Enter the desired track number to search for using [Cursor ▲ / ▼] or [the Number buttons], then press [ENTER].

Track search will start.

### Hint

• For Video CDs, you can perform the track search function in stop mode without turning PBC OFF

### Note

• During Random playback or Program playback, you cannot search the desired track.

### **Direct Search**



You can search the desired track directly.

### **Using [the Number buttons]**

During playback, if the display menu is not displayed, press [the Number buttons] to enter the desired track number.

### Note

 During Random playback or Program playback, you cannot search the desired track directly.

### Time search

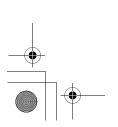


- 1 During playback, press [DISPLAY].
- 2 Select the 🔯 icon using [Cursor ◀/▶], then press [ENTER]. for the title or track number is highlighted.
- 3 Press [Cursor ◀ / ▶] to highlight ⑤.
- 4 Enter the desired time to search for using [Cursor ▲ / ▼] or [the Number buttons], then press [ENTER].

Time search will start.

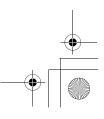
• For Video CDs, you can perform the time search function in stop mode without turning PBC OFF manually.

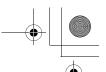
- · During Random playback or Program playback, you cannot search the desired time.
- The title number and chapter number of the setting time are also displayed.
- Time search function is available only in the same track or title.
- If the time search is not available, --:--: -:- - (or 0:00:00 / 0:00:00) is displayed.



ΕN 44







# Repeat / Random / Program playback / Slide Show

## Repeat playback



- During playback, press [DISPLAY].
- 2 Select the 🗔 icon using [Cursor ◀ / ▶], then press [ENTER].
- Select the desired option to repeat using [Cursor ▲ / ▼], then press [ENTER].

The selected repeat playback will start. The following operations are available.

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

### Chapter:

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

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

### A-B:

The A-B point will be played back repeatedly. (DVD, CD and Video CD only)

When pressing [ENTER] while A-B is highlighted, A-B repeat is set.

- Press [ENTER] again to decide the starting point (A).
- Press [ENTER] after setting point (A) to select the ending point (B).

### Track:

The current track will be played back repeatedly. (CD, Video CD, MP3 and JPEG only)

The current group will be played back repeatedly. (MP3 and JPEG (except Picture CD) only)

 To cancel the repeat playback, select "OFF" at step 3. The repeat setting is also cancelled when you stop playback.

- · You can only set A-B repeat playback within the current title (for DVDs) or current track (for Audio CDs and Video CDs).
- You cannot select "Group" during the random playback of MP3 files.

## Random playback



You can use this function to play back a disc randomly instead of in the recorded order.

## In stop mode, press [SETUP].

"Easy Setting Menu" or "Advanced Setting Menu" will appear.

2 Select "CD Playback Mode" using [Cursor ▲ / ▼], then press [ENTER].

The CD Playback Mode menu will appear.

3 Select "Random Play" using [Cursor ▲ / ▼], then press [ENTER].

Random playback will start.

### Hint

- To cancel random playback, press [STOP ■] twice during random playback. "Play mode OFF" appears on the screen.
- For Video CDs, if you select random playback with the PBC function on, the PBC function will be turned off automatically and random playback starts.

- · During random playback, if you forward the track to the end, the playback speed of the next track will be
- · During random playback, you cannot use the search function except for the search with [SKIP I◄ By pressing [SKIP I◄◄], you can return only to the beginning of the current track.

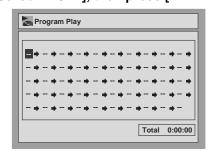
# Program playback



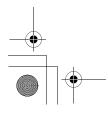


You can programme the disc to play back in your desired order.

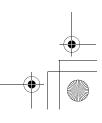
- Follow steps 1 and 2 in "Random playback."
- 2 Select "Program Play" using [Cursor  $\blacktriangle$  /  $\blacktriangledown$ ], then press [ENTER].











- Select the desired track using [Cursor ▲ / ▼], then press [ENTER] or [Cursor ▶].
- 4 Press [PLAY ▶] to start program playback.

### Hint

- To erase tracks you selected, press [CLEAR].
- You can make up to 50 track settings
- To cancel program playback, press [STOP ■] twice during program playback. "Play mode OFF" appears on the screen.
- You may also select the desired track using [the Number buttons] at step 3.
- · For Video CDs, if you select program playback with the PBC function on, the PBC function will be turned off automatically and program playback starts.

### Note

- · During programme playback, if you forward the track to the end, the playback speed of the next track will
- During programme playback, you cannot use the search function except for the search with [SKIP |◀◀ / ▶▶I].

## Slide Show





You can select the display time between 5 seconds

- Follow steps 1 and 2 in "Random playback."
- 2 Select "Slide Show" using [Cursor  $\blacktriangle$  /  $\blacktriangledown$ ], then press [ENTER].
- Select the display time using [Cursor  $\blacktriangle$  /  $\blacktriangledown$ ], then press [ENTER].

 Large-size JPEG files take a few moments to be displayed.

# Selecting the format of audio and video

You can select the format of audio and video to suit the content of the disc you are playing back.

## Switching subtitles



Many DVD-Videos have subtitles in one or more languages. The languages available are usually printed on the disc case. You can switch subtitle languages at any time during playback.

- 1 During playback, press [DISPLAY].
- 2 Select the 🔳 icon using [Cursor ◀/▶], then press [ENTER].
- 3 Select the desired subtitle language using [Cursor ▲ / ▼], then press [ENTER].

Subtitles are displayed in the selected language. If you select "OFF," subtitles will disappear.

- · With some discs it is only possible to change the subtitle language from the disc menu. Press [TOP MENU] or [MENU / LIST] to display the disc menu.
- If a 4-digit language code appears in the subtitle menu at step 2, refer to the "Language code" on page 70.

## Switching audio soundtrack

BVD-V BVD-RW GED GVCD GMP3



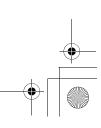




When playing back a DVD-Videos recorded with two or more soundtracks (often in different languages), you can switch among them during playback. When playing back DVD-RW discs recorded in VR mode, you can switch to main audio (L), sub audio (R) or a combination of both (L / R). When playing back Audio CDs, Video CDs or MP3 files, you can switch among the left, the right channel, and stereo.

- 1 During playback, press [DISPLAY]. Press [AUDIO] during playback, and follow from
- 2 Select the 🕼 icon using [Cursor ◀ / ▶], then press [ENTER].

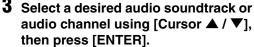












With a DVD Video: Audio soundtrack will switch. Example: English → Spanish → French

With a DVD-RW in VR mode: Audio channel menu will appear. Follow the step 4.

With an Audio CD, Video CD, or MP3 files: The Audio channel will switch. Example:  $STEREO \rightarrow L-ch \rightarrow R-ch$ 

### 4 Select the desired audio channel using [Cursor ▲ / ▼], then press [ENTER].

The Audio channel will switch.

### Note

• With some discs it is only possible to change the soundtrack from the disc menu. Press [TOP MENU] or [MENU / LIST] to display the disc menu.

### Switching camera angles



Some DVD-Videos feature scenes shot from two or more angles. The disc case is usually marked with an angle icon if the disc has multi-angle scenes.

## During playback, press [DISPLAY].

The angle icon appears when a switching camera angle is available. (Available only when the angle icon appears in bottom right on the TV screen.)

### 2 Select the 🔛 icon using [Cursor ◀ / ▶], then press [ENTER].

The angle will switch each time you press [ENTER].

### Hint

• Even when the 🚆 icon is not displayed, you can select the angle if the currently played back title has at least two multi-angle scenes.

### Reducing block noise



- 1 During playback, press [DISPLAY].
- 2 Select the NR icon using [Cursor ◀/▶], then press [ENTER].

The Noise Reduction menu will appear.

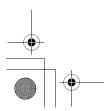
### 3 Select the desired option using [Cursor ▲ / ▼], then press [ENTER].

This function reduces noise in the playback picture. When playing back discs recorded in long time modes such as 8H or 10H, select "Type 1" or "Type 2." "Type 2" is more effective.

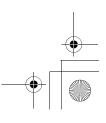
When playing back discs with a little noise, such as DVD-Videos, select "OFF."

















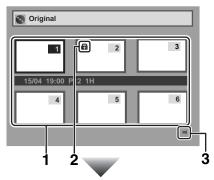
# **Editing**

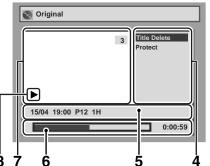
## Disc editing

You can edit a disc recorded using the PAL system. It is not possible to edit discs recorded using the NTSC system.

### Guide to a title list

The title list enables you to check the titles recorded on a disc easily. You can choose a title to play back from the screen and easily edit the titles as you wish. The items on the title list are as follows.





- To select a title recorded on the disc for editing, move the cursor to the title and press [ENTER].
- If the title is protected, the Protect icon will appear.
  - It is not possible to protect a title on the Playlist.
- Arrow icons mean the title list includes a next or previous page. Press [Cursor ◀ / ▶] in the direction of the icon you wish to follow.
- Available title editing menu items vary depending on the disc and format types.
- You can edit the title and details as you wish.
- Time status bar of the recording.
- After editing, playback starts from this point.
- The selected title from the title list thumbnails. The selected title is played back automatically.
- Playback status of the current disc.

## **Editing discs in Video mode**

You can edit the following disc items in Video mode.

- Deleting titles (See below.)
- Editing titles (See page 49.)
- Setting or clearing chapter markers (See page 50.)

- · After a disc is finalised, editing the disc or recording on the disc is not possible. (Except DVD-RW discs in
- A Playlist is not available for DVD-R or DVD-RW discs in Video mode.
- · It is not possible to edit a disc recorded in another video system other than PAL, such as NTSC.

### Insert a recordable disc.

# Deleting titles





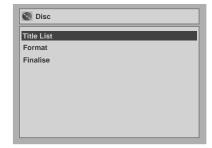
You can delete titles you do not want to keep. In Video mode, recordable disc space of DVD-RW disc will increase when the last title on the title list is deleted. However, deleting the title will not change recordable disc space for DVD-R disc.

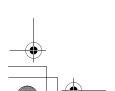
In finalised DVD-R discs or DVD-RW (in Video mode), you cannot select the title list because it cannot be edited once finalised.

• It is not possible to retrieve deleted titles.

### Press [DVD @] first.

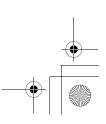
- 1 In stop mode, press [SETUP]. "Easy Setting Menu" or "Advanced Setting Menu" will appear.
- 2 Select "Disc" using [Cursor ▲ / ▼], then press [ENTER].
- 3 Select "Title List" using [Cursor ▲ / ▼], then press [ENTER].





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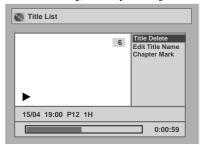




4 Select the desired title using [Cursor ▲ / ▼ / ◀ / ▶], then press [ENTER].



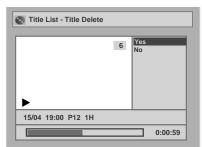
5 Select "Title Delete" using [Cursor ▲ / ▼], then press [ENTER].



You cannot select "Chapter Mark" when a DVD-R disc is inserted into the unit. For DVD-RW discs in Video mode, you cannot select the chapter mark of the title which is less than 5 minutes.

Select "Yes" using [Cursor ▲ / ▼], then press [ENTER].

The title is deleted.



**7** Press [SETUP].

Writing on the disc starts.

It may take a while to write the data on a disc.

# Editing titles 🔍



You can edit the title names from this menu. The title names you edit will appear on the title list.

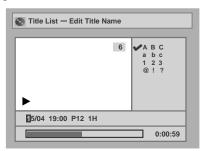
Press [DVD @] first.

1 Follow steps 1 to 4 in "Deleting titles."

2 Select "Edit Title Name" using [Cursor ▲ / ▼], then press [ENTER].

A window for entering the title name will appear.

To enter the title name, refer to "Guide to editing title names" on this page.



When you finish entering the title name, press **[ENTER]**.

4 Select "Yes" using [Cursor ▲ / ▼], then press [ENTER].

The name you edited becomes for the title.

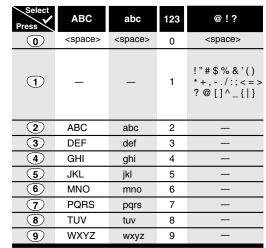
**5** Press [SETUP].

Writing on the disc starts.
It may take a while to write the data on a disc.

### Guide to editing title names

Step 1: Select the desired character set using [Cursor ▲ / ▼], then press [ENTER].

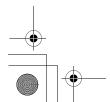
Step 2: Using the list below as a guide, press [the Number buttons] repeatedly until the desired letter appears.



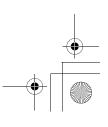
 Characters set will be changed to the "@!?" automatically if you press [1] after you selected the "ABC" or "abc" mode.

### Note

- To delete letters, press [CLEAR] repeatedly. Press and hold [CLEAR] to delete all letters.
- To move on to the next set of letters, press [Cursor ▶].
- You can enter up to 30 letters.











• Unrecognisable characters will be replaced with asterisks (\*). If you delete them, adjoining characters may change to asterisks (\*) or other.

## Setting or clearing chapter markers



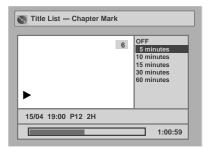


You can add chapter markers to a title. After a title is marked with chapters, you can use the chapter search feature.

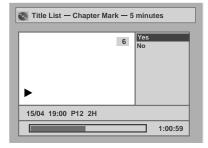
You can specify the interval of chapter markers for titles last more than 5 minutes.

### Press [DVD @] first.

- In stop mode, press [SETUP].
  - "Easy Setting Menu" or "Advanced Setting Menu" will appear.
- 2 Select "Disc" using [Cursor ▲ / ▼], then press [ENTER].
- Select "Title List" using [Cursor ▲ / ▼], then press [ENTER].
- 4 Select the desired title using [Cursor  $\blacktriangle / \blacktriangledown / \blacktriangleleft / \blacktriangleright$ ], then press [ENTER].
- 5 Select "Chapter Mark" using [Cursor  $\blacktriangle$  /  $\blacktriangledown$ ], then press [ENTER].
- **6** Select the desired interval using [Cursor ▲ / ▼], then press [ENTER].



7 Select "Yes" using [Cursor ▲ / ▼], then press [ENTER].



Chapter markers are added. If you select "OFF" at step 6, all the chapter markers are erased.

## **8** Press [SETUP].

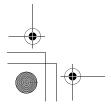
Writing on the disc starts. It may take a while to write the data on a disc.

### Note

- · You cannot select a chapter marker interval that exceeds the length of a title.
- The length of chapters may slightly deviate from the one specified at the step 6.
- · A chapter marker may be delayed depending on the recording content.

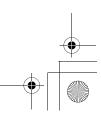






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# Editing discs in VR mode

For discs in VR mode, you can edit from the "Original" menu or the "Playlist" menu that you create from the original.

### Editing original titles Original

You can perform the following operations on the original titles.

- Deleting titles (See this page.)
- Protecting titles (See page 52.)
- Releasing titles from protecting (See page 52.)

### Editing playlists Playlist

You can create a Playlist from original titles, and edit it to your preference without losing the original titles. You can perform the following operations on the Playlist.

- Deleting titles (See page 53.)
- Deleting parts of titles (Scene Delete) (See page 53.)
- Editing titles (See page 54.)
- Setting or clearing chapter markers (See page 54.)
- Setting pictures as thumbnails (See page 55.)
- Dividing a title (See page 55.)
- Combining titles (See page 55.)
- Adding titles to a Playlist (See page 56.)
- Deleting a Playlist (See page 56.)

### Note

 After editing, titles will not remain as recorded originally. If you want to keep the original as it is, edit the Playlist to your preference.

# **Original** Editing Original titles in VR mode

Insert a recordable disc before editing.

# Original Deleting titles



When a title is deleted from an original list in VR mode, the available recording time on the disc will increase.

### Note

• It is not possible to retrieve deleted titles.

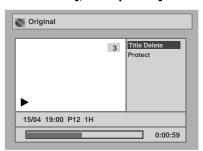
### Press [DVD 🔘] first.

- 1 In stop mode, press [SETUP].

  "Easy Setting Menu" or "Advanced Setting Menu"
- 2 Select "Disc" using [Cursor ▲ / ▼], then press [ENTER].
- 3 Select "Original" using [Cursor ▲ / ▼], then press [ENTER].



- 4 Select the desired title using [Cursor ▲ / ▼ / ◀ / ▶], then press [ENTER].
- 5 Select "Title Delete" using [Cursor ▲ / ▼], then press [ENTER].



**6** Select "Yes" using [Cursor ▲ / ▼], then press [ENTER].

The title is deleted.

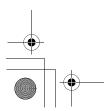
# **7** Press [SETUP].

Writing on the disc starts.

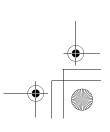
It may take a while to write the data on a disc.

### Note

 When you delete the original title, the corresponding part of the playlist will also be deleted.











# Original Protecting titles



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

### Press [DVD @] first.

1 In stop mode, press [SETUP].

"Easy Setting Menu" or "Advanced Setting Menu" will appear.

- **2** Select "Disc" using [Cursor ▲ / ▼], then press [ENTER].
- 3 Select "Original" using [Cursor  $\blacktriangle$  /  $\blacktriangledown$ ], then press [ENTER].
- 4 Select the desired title using [Cursor ▲ / ▼ / ◀ / ▶], then press [ENTER].
- 5 Select "Protect" using [Cursor ▲ / ▼], then press [ENTER].



6 Press [ENTER] again.



# **7** Press [SETUP].

Writing on the disc starts. It may take a while to write the data on a disc.

### To protect a whole disc (DVD-RW VR mode only):

Select "Disc Protect" from the Disc menu, then select "Yes." Refer to "Setting a disc to protect" on page 34.

• The protected title is marked with a key icon in the original list.

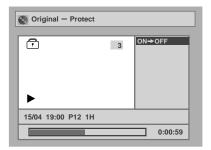
# **Original** Releasing titles from protecting



You can cancel the title protection feature after it is applied.

### Press [DVD @] first.

- 1 Follow steps 1 to 4 in "Original Protecting titles."
- **2** Press [ENTER].

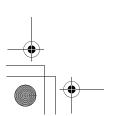


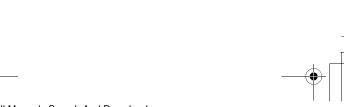
## **3** Press [ENTER] again.

The key icon will disappear from the title in the original list.

### 4 Press [SETUP].

Writing on the disc starts. It may take a while to write the data on a disc.





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# Playlist Editing the Playlist in VR mode

### Note

 When you play back the disc of which the playlist is edited, select "Playlist" in the title menu.

### Insert a recordable disc before editing.

# Playlist Deleting titles



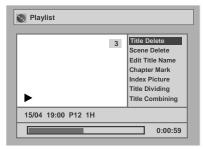
In VR mode, even when a title is deleted from the Playlist, the original title will remain in the Original list. The recordable disc space to record will not increase.

### Press [DVD 6] first.

1 In stop mode, press [SETUP].

"Easy Setting Menu" or "Advanced Setting Menu" will appear.

- 2 Select "Disc" using [Cursor ▲ / ▼], then press [ENTER].
- 3 Select "Playlist" using [Cursor ▲ / ▼], then press [ENTER].
- 4 Select the desired title using [Cursor ▲ / ▼ / ◀ / ▶], then press [ENTER].
- 5 Select "Title Delete" using [Cursor ▲ / ▼], then press [ENTER].



6 Select "Yes" using [Cursor ▲ / ▼], then press [ENTER].

The title is deleted.

**7** Press [SETUP].

Writing on the disc starts.

It may take a while to write the data on a disc.

# Playlist Deleting parts of titles (Scene Delete)

## ØVD-RW

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

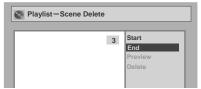
The available recording time on the disc will not increase.

### Press [DVD @] first.

- 1 Follow steps 1 to 4 in "Playlist Deleting titles."
- 2 Select "Scene Delete" using [Cursor ▲ / ▼], then press [ENTER].
- 3 Use [SKIP I◄◄ / ▶►I], [◄◄], [▶►], [PLAY ▶] and [PAUSE II] to find the start point, then press [ENTER].



Use [SKIP I◀◀ / ▶▶I], [◀◀], [▶▶], [PLAY ▶] and [PAUSE II] again to move to the end point, and press [ENTER].



The cursor will move to "Preview." You can check the preview by pressing **[ENTER]**.

The bar at the bottom of the screen indicates the total and the elapsed time of the title, and the area selected for deletion is indicated in red during the provider.

- 4 Select "Delete" using [Cursor ▲ / ▼], then press [ENTER].
- 5 Select "Yes" using [Cursor ▲ / ▼], then press [ENTER].

The part of the title is deleted.

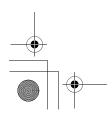
# **6** Press [SETUP].

Writing on the disc starts.

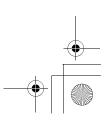
It may take a while to write the data on a disc.

### Note

- You cannot select "Scene Delete" if the number of chapter markers in the Original or Playlist is more than 900.
- The recordable disc space will not increase after deleting parts of titles.











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# Playlist Editing titles



You can edit the title names from this menu. The names you edit will appear on the title list.

### Press [DVD @] first.

- 1 Follow steps 1 to 4 in "Playlist Deleting titles."
- 2 Select "Edit Title Name" using [Cursor ▲ / ▼], then press [ENTER].
- To enter the title name, refer to "Guide to editing title names" on page 49.



When you finish entering the title name, press **[ENTER]**.

4 Select "Yes" using [Cursor ▲ / ▼], then press [ENTER].

The name you edited becomes the title.

**5** Press [SETUP].

Writing on the disc starts.

It may take a while to write the data on a disc.

# Playlist Setting or clearing chapter markers



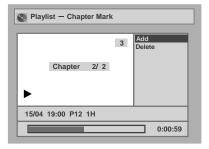
You can add chapter markers to a title. After a title is marked with chapters, you can use the chapter search feature.

You can set a chapter marker anywhere you want. You cannot set more than 999 chapter markers in the Playlist.

### Press [DVD @] first.

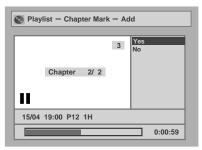
- 1 Follow steps 1 to 4 in "Playlist Deleting titles."
- 2 Select "Chapter Mark" using [Cursor ▲ / ▼], then press [ENTER].

- 3 Use [SKIP I◄◄ / ▶►I], [◄◄], [▶►], [PLAY ▶] and [PAUSE II] to find the point where you will create a new chapter marker.
  - Or, use [SKIP |◄◄ / ▶▶I] to find a chapter marker that you wish to delete.
- 4 Select "Add" or "Delete" accordingly using [Cursor ▲ / ▼], then press [ENTER].



You cannot delete the first chapter of a title.

5 Select "Yes" using [Cursor ▲ / ▼], then press [ENTER].



A chapter marker is added.

### Adding a chapter marker:

If you select "Add" at step 4, a new chapter marker is created at the point you specified.

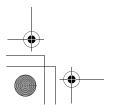
### Deleting a chapter marker:

If you select "Delete" at step 4, the chapter marker you selected is deleted.

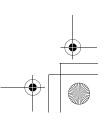
## 6 Press [SETUP].

Writing on the disc starts.

It may take a while to write the data on a disc.



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# Playlist Setting pictures as thumbnails



You can set a picture as a thumbnail for each title. This helps you to remember the content of the title without having to play it back. The first picture of the title is selected as the default.

## Press [DVD @] first.

- 1 Follow steps 1 to 4 in "Playlist Deleting titles."
- 2 Use [SKIP I◄◄ / ▶▶I], [◄◄], [▶▶], [PLAY ▶] and [PAUSE II] to find the picture you want to set as a thumbnail, then press [ENTER].
- 3 Select "Index Picture" using [Cursor ▲ / ▼], then press [ENTER].
- 4 Select "Yes" using [Cursor ▲ / ▼], then press [ENTER].

The picture is set as the thumbnail.



# **5** Press [SETUP].

Writing on the disc starts.

It may take a while to write the data on a disc.

### Note

 If a picture selected as a thumbnail is deleted by deleting a part of a title, the default picture is selected.

# Playlist Dividing a title



You can divide a title into two new titles.

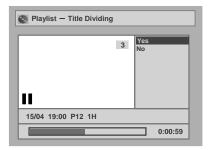
### Press [DVD @] first.

- 1 Follow steps 1 to 4 in "Playlist Deleting titles."
- 2 Use [SKIP I◄◄ / ▶►I], [◄◄], [▶►], [PLAY ▶] and [PAUSE II] to find the point where you wish to divide the title.

- 3 Select "Title Dividing" using [Cursor ▲ / ▼], then press [ENTER].
- 4 Select "Yes" using [Cursor ▲ / ▼], then press [ENTER].

The title is divided into two new titles with the same title names.

The thumbnail you set is reset to the first picture of each title.



## **5** Press [SETUP].

Writing on the disc starts.
It may take a while to write the data on a disc.

### Note

- If a disc contains the maximum number of recordings (99), you cannot divide any titles.
- You cannot divide the titles if the total number of the chapters have already reached 999.

# Playlist Combining titles

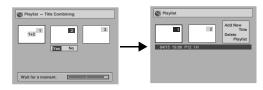


You can combine two titles into a single title.

### Press [DVD (6)] first.

- 1 Follow steps 1 to 4 in "Playlist Deleting titles."
- 2 Select "Title Combining" using [Cursor ▲ / ▼], then press [ENTER].
- 3 Select another title to combine using [Cursor ▲ / ▼ / ◀ / ▶], then press [ENTER].
- 4 Select "Yes" using [Cursor ◀/▶], then press [ENTER].

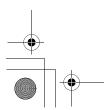
The two titles will combine into a single title.



# **5** Press [SETUP].

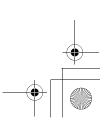
Writing on the disc starts.

It may take a while to write the data on a disc.





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### Note

- You cannot select the same title twice and combine it into a single title.
- If either one of the two original titles is deleted, the combined new title is also deleted.

# Playlist Adding titles to a Playlist

ØVD-RW

You can add a title to the playlist as you wish. You can add up to 99 titles to a Playlist (as long as the total number of the playlist does not exceed 999 chapters).

### Press [DVD @] first.

- 1 Follow steps 1 to 3 in "Playlist Deleting titles."
- 2 Select "Add New Title" using [Cursor ▲ / ▼ / ◀ / ▶], then press [ENTER].



- 3 Select the desired title using [Cursor ▲ / ▼ / ◀ / ▶], then press [ENTER].
- 4 Press [SETUP].

Writing on the disc starts.

It may take a while to write the data on a disc.

### Hint

- To delete a title from the Playlist, refer to "Deleting titles" on page 53.
- To delete the Playlist, refer to "Deleting a Playlist" on this page.

# Playlist Deleting a Playlist 🥄



A Playlist can be deleted if it is no longer needed.

### Press [DVD @] first.

1 Follow steps 1 to 3 in "Playlist Deleting titles."

2 Select "Delete Playlist" using [Cursor ▲ / ▼ / ◀ / ▶], then press [ENTER].



3 Select "Yes" using [Cursor ◀/▶], then press [ENTER].

The Playlist is deleted.

4 Press [SETUP].

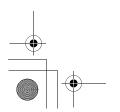
Writing on the disc starts. It may take a while to write the data on a disc.

### Note

- Deleting a Playlist will not increase the available recording time on the disc.
- When the disc contains 99 titles or more, or 999 chapters or more, "Add New Title" cannot be selected.

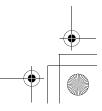






ΕN











# **Changing the Setting menu**

# Tour of the Setting menu

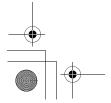
The following table shows the items you can set and their default settings. Use the table as a reference for efficient operation.

Setting menu	Menu items		Default	Function
Language setting	Disc Menu Language		English	Sets the disc menu language.
page 58	Audio Language		Original	Sets the audio language.
	Subtitle Language		OFF	Sets the subtitle language.
Display setting page 59	FL Dimmer		Bright	Sets the front display brightness.
	Screen Saver		10 minutes	Sets the idling time before the screen saver starts.
Audio Setting pages 59-60	Digital Out	PCM	48 kHz	Sets whether sound recorded at 96 kHz is down sampled to 48 kHz or not.
		Dolby Digital	Stream	Sets the digital audio output signal specification.
		MPEG	PCM	Sets the digital audio output signal specification.
		DTS	OFF	Sets whether DTS signal is output or not.
	Dynamic Range Control	'	ON	Compresses the sound volume range.
	Fast Forward with Audio		OFF	Outputs sound during fast forward play back.
Parental setting page 61	Parental Lock		All	Sets the DVD parental control level.
	Change password			Sets and change the password.
Output setting page 62	Video Out	TV System	PAL	Sets the TV system.

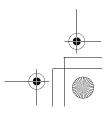
### Note

- Changes you make to the Setting menu remain even after power to the unit is switched off or the disc tray is
  opened or closed.
- [SETUP] will not function when the unit is turned on by pressing [STANDBY-ON] during either the DVD or VCR timer-standby mode.













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# Language setting

- 1 In stop mode, press [SETUP].
- 2 Select "Advanced Setting Menu" using [Cursor ▲ / ▼], then press [ENTER].

If it has already appeared, proceed to step 3.

- 3 Select "Playback" using [Cursor ▲ / ▼], then press [ENTER].
- 4 Select the desired item using [Cursor ▲ / ▼], then press [ENTER].

### Disc Menu Language (Default: English)

Set the Disc Menu language.



# Select a setting using [Cursor ▲ / ▼], then press [ENTER].

Your setting is activated.

### Audio Language (Default: Original)

Set the Audio language.



# Select a setting using [Cursor ▲ / ▼], then press [ENTER].

Your setting is activated.

If Original is selected, the audio language is the default of the inserted disc.

### Subtitle Language (Default: OFF)

Set the Subtitle language.



# Select a setting using [Cursor ▲ / ▼], then press [ENTER].

Your setting is activated.

# If "Other" is selected, enter the appropriate 4-digit code using [the Number buttons].

Refer to the language code table on page 70.



When you finish entering the code, press [ENTER].

## **5** Press [SETUP] to exit.

### Hint

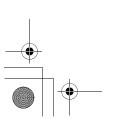
- You can also change or switch off the subtitles on a DVD from the disc menu if it is available.
- Press [CLEAR] or [Cursor ◀] to erase numbers entered incorrectly.

### Note

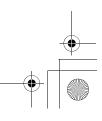
- You can only select the languages supported by the inserted disc.
- The Audio Language setting may not be available for some discs.



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# **Display setting**

- 1 In stop mode, press [SETUP].
- 2 Select "Advanced Setting Menu" using [Cursor ▲ / ▼], then press [ENTER].

If it has already appeared, proceed to step 3.

- 3 Select "Display" using [Cursor ▲ / ▼], then press [ENTER].
- 4 Select the desired item using [Cursor ▲ / ▼], then press [ENTER].

### FL Dimmer (Default: Bright)

Set the front panel display brightness.



# Select a setting using [Cursor ▲ / ▼], then press [ENTER].

You can choose one from "Auto", "Bright" and "Dark"

If "Auto" is selected, the display gets dark when the power is OFF.

### Screen Saver (Default: 10 minutes)

Set the screen saver time delay.



Select a setting using [Cursor ▲ / ▼], then press [ENTER]. Your setting is activated.

**5** Press [SETUP] to exit.

## Audio setting

Choose the appropriate Audio settings for your audio equipment.

This will only affect DVDs playback.

- 1 In stop mode, press [SETUP].
- 2 Select "Advanced Setting Menu" using [Cursor ▲ / ▼], then press [ENTER].

If it has already appeared, proceed to step 3.

- 3 Select "Playback" using [Cursor ▲ / ▼], then press [ENTER].
- 4 Select the desired item using [Cursor ▲ / ▼], then press [ENTER].

### Note

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

### **Digital Out**

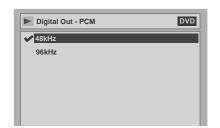
Set the digital audio output.



# Select a setting using [Cursor ▲ / ▼], then press [ENTER].

Proceed with either of the following steps.

### PCM sampling (Default: 48 kHz)



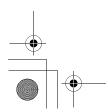
# Select a setting using [Cursor ▲ / ▼], then press [ENTER].

Your setting is activated.

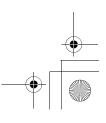
48 kHz: If your amplifier / decoder is NOT compatible with 96 kHz PCM, select "48 kHz." Sound recorded at 96 kHz is down sampled to 48 kHz.

96 kHz: If your amplifier / decoder is compatible with 96 kHz PCM, select "96 kHz." Sound is sampled at 96 kHz.











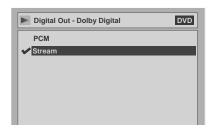
# •

### Note

When playing back disc with copyright protection:

 Even if you select "96 kHz," the sound is down sampled to 48 kHz.

### **Dolby Digital conversion (Default: Stream)**



# Select a setting using [Cursor ▲ / ▼], then press [ENTER].

Your setting is activated.

PCM: Converts the Dolby Digital into PCM

(2 channel).

If your amplifier / decoder is NOT compatible

with Dolby Digital, set to "PCM".

Stream: Outputs Dolby Digital signals.

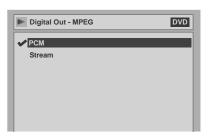
If your amplifier / decoder is compatible with Dolby Digital, set to "Stream".

### Hint

When playing back a DVD-RW disc recorded in VR mode:

 If the audio source on a disc is in Dolby Digital format, set "Dolby Digital" to "PCM" so that you can switch to main audio (L), sub audio (R), or a combination of both (L / R) using your amplifier / decoder.

### Settings for MPEG (Default: PCM)



# Select a setting using [Cursor ▲ / ▼], then press [ENTER].

Your setting is activated.

PCM: Converts MPEG into PCM.

If your amplifier / decoder is NOT compatible

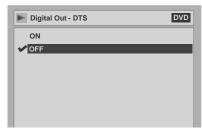
with MPEG, set to "PCM."

Stream: Outputs MPEG Audio signals.

If your amplifier / decoder is compatible with

MPEG, set to "Stream."

### Settings for DTS (Default: OFF)



# Select a setting using [Cursor $\blacktriangle$ / $\blacktriangledown$ ], then press [ENTER].

Your setting is activated.

ON: Outputs DTS signals.

If your amplifier / decoder is compatible with

DTS, set to "ON."

OFF: No DTS signal is output.

If your amplifier / decoder is NOT compatible

with DTS, set to "OFF."

### **Dynamic Range Control (Default: ON)**

Set to "ON" to make the dynamic range narrower.



# Select a setting using [Cursor ▲ / ▼], then press [ENTER].

Your setting is activated.

The Dynamic Range Control function is effective only with analogue audio connection.

### Fast Forward with Audio (Default: OFF)

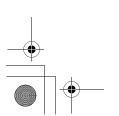
Set to "ON" to output the sound during DVD playback at x1.5 fast forward.



# Select a setting using [Cursor $\blacktriangle$ / $\blacktriangledown$ ], then press [ENTER].

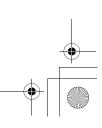
Your setting is activated.

**5** Press [SETUP] to exit.



Changing the Setting menu









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## **DVD-Videos Parental lock level**

Some DVD-Videos feature a Parental Lock function. If the rating of the inserted disc exceeds the level you set, playback will stop. You must enter a password before the disc will be played back. This feature prevents your children from viewing inappropriate

- 1 In stop mode, press [SETUP].
- 2 Select "Advanced Setting Menu" using [Cursor ▲ / ▼], then press [ENTER].

If it has already appeared, proceed to step 3.

- 3 Select "Playback" using [Cursor ▲ / ▼], then press [ENTER].
- 4 Select "Parental Lock" using [Cursor ▲ / ▼], then press [ENTER].



### Note

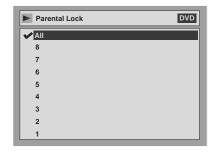
- The parental lock function may not be available on some discs.
- It may be difficult to determine if some DVDs support the parental lock function. Be sure to confirm that the parental lock function operates in the way that you have set.
- Record the password in case you forget it.

### Parental Lock (Default: All)

Set the Parental Lock level.

# Change the Parental Lock level using [Cursor ▲ / ▼], then press [ENTER].

Proceed with either of the following steps.



### Parental level

All: All parental locks are cancelled.
8: DVD software of any grade (adult / general / children) can be played back.

7 to 2: Only DVD software intended for general use and children can be played back.

1: Only DVD softwares intended for children can be played back.

### A password is not yet set

Select "Yes" using [Cursor ▲ / ▼], then enter a new password using [the Number buttons], then press [ENTER].

Your setting is activated.

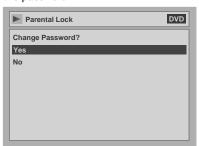
If you select "No", proceed to Step 5.

### A password is already set

Enter the current password using [the Number buttons].



Change the password



Select "Yes" using [Cursor ▲ / ▼], then enter a new password using [the Number buttons], then press [ENTER].

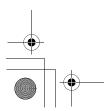
Your setting is activated.

If you press [ENTER] without entering a password, you can set up without a password.

# **5** Press [SETUP] to exit.

### Note

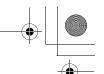
- Press [CLEAR] to erase numbers entered incorrectly.
- If you forget your password or you want to clear all settings in Parental lock, enter [4], [7], [3], [7] using [the Number buttons] at the option window. Your password is cleared and parental levels are set to "All."



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Changing the Setting menu





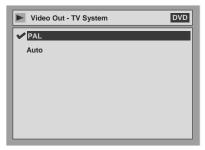


## **Setting TV system**

- 1 In stop mode, press [SETUP].
- 2 Select "Advanced Setting Menu" using [Cursor ▲ / ▼], then press [ENTER].

If it has already appeared, proceed to step 3.

- 3 Select "Playback" using [Cursor ▲ / ▼], then press [ENTER].
- 4 Select "Video Out" using [Cursor ▲ / ▼], then press [ENTER].
- **5** Press [ENTER].
- 6 Select the desired system setting using [Cursor ▲ / ▼], then press [ENTER].



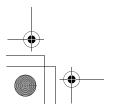
PAL: Outputs a modified PAL signal for viewing discs recorded with the NTSC system on a PAL system TV.

Auto: Changes the video system (PAL / NTSC) automatically according to the format of

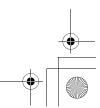
the inserted disc.

### Press [SETUP] to exit.

- With discs recorded using the PAL system, a PAL signal is output for viewing on a PAL system TV.
- Discs recorded with the PAL system cannot be viewed on an NTSC system TV.
- With discs recorded using the NTSC system, an NTSC signal is output for viewing on an NTSC or Multi system TV.
- With discs recorded using the NTSC system, select PAL to view on a PAL system TV.











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# **VCR** functions

# **Playback**



1 Press [STANDBY-ON] to turn on the

To play back a tape, turn on the TV and be sure to select the input to which the unit is connected.

- **2** Press [VCR **5**0].
- 3 Insert a prerecorded tape, then press [PLAY ▶] to begin playback.
- 4 During playback, press [PAUSE II].
  Playback will be paused and sound will be muted.
- **5** Press [PLAY ▶] to resume playback.
- 6 Press [STOP ■] to stop playback.
- 7 Press [STOP / EJECT ■▲] on the unit to eject the tape.

### Note

- When a tape without record tab is inserted, the unit will start playback automatically.
- Tracking will be automatically adjusted upon playback. To adjust the tracking manually, press [PROG. ▲ / ▼].

# Recording and one-touch timer recording (OTR)

### **Basic Recording**



### Before recording, make sure:

- The desired channel is selected by pressing the number buttons on the remote control.
- There is a tape with a record tab in the unit.
- The desired recording speed is selected in SP (standard play) or LP (long play) mode by pressing [REC SPEED] on the remote control.

Tape speed	Recording / Playback Time			
Type of tape	E60	E120	E180	
SP mode	1 hour	2 hours	3 hours	
LP mode	2 hours	4 hours	6 hours	

- Refer to page 28 for instructions on timer recording.
- 1 Turn on the unit and insert a recordable tape.

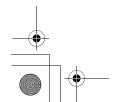
Make sure that the TV input is set on the unit.

- 2 Press [VCR  $\sigma \circ$  ].
- 3 Select the recording speed using [REC SPEED].
  - The desired recording speed is selected in SP (standard play) or LP (long play) mode by pressing [REC SPEED].
- 4 Select the desired channel to record using [PROG. ▲ / ▼] or [the Number buttons].
- **5** Press [REC / OTR] to start recording. To temporarily stop recording or to resume it,

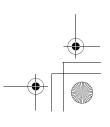
press [PAUSE II]. After the unit has been in pause mode for 5 minutes, it will stop automatically to protect the tape and the video head from damage.

**6** Press [STOP ■] when the recording is completed.

VCR function.











### 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.



## One-touch timer recording



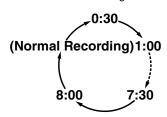
This feature allows you to set the recording length simply by pressing [REC / OTR].

1 Turn on the unit and insert a recordable tape.

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

- 2 Press [VCR  $\infty$ ].
- 3 Select the recording speed using [REC SPEED] (See page 63.).
- 4 Select the desired channel to record using [PROG. ▲ / ▼] or [the Number buttons].
- Press [REC / OTR] repeatedly until the desired recording time (30 minutes to 8 hours) appears on the TV screen.

One-touch timer recording will start.



- When the unit reaches the specified time, it will be turned off automatically.
- To change the recording length during one-touch timer recording, press [REC / OTR] repeatedly until the desired length appears.
- To cancel one-touch timer recording within the specified time, press [STOP ■].

### Hint

 The remaining recording time will appear on the TV screen during one-touch timer recording. Press [DISPLAY] to see it on the TV screen.

### Note

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- If VCR one-touch timer recording is completed during DVD playback or recording, the VCR will be in stop mode and the DVD keeps the current mode.
- You cannot use the pause function during one-touch timer recording.
- When one-touch timer recording is finished and the power is turned off, the unit will switch to the timerstandby mode automatically if a timer recording has been programmed. Press [T-SET] to cancel the timer-standby mode to use the unit continuously.

### Search

### Index search



- 1 Press [VCR  $\infty$  ].
- 2 During tape playback, press [SEARCH] so that the index search menu appears.
- 3 Enter the number of recordings you wish to skip using [the Number buttons] within 30 seconds.
- 4 Press [►►] or [◄◄] to start index search.

If you want to go in the forward direction, press [▶▶].

If you want to go in the reverse direction, press [◄◄].

After index search, the VCR will play back the tape automatically.

### Note

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

### 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.

- 1 Press [VCR oo ].
- 2 During tape playback, press [SEARCH] repeatedly so that the Time search menu appears.
- 3 Enter your desired time to skip using [the Number buttons] within 30 seconds.
- 4 Press [►►] or [◄◄] to start time search.

If you want to go in the forward direction, press [▶▶].

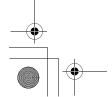
If you want to go in the reverse direction, press

After time search, the unit will play back the tape automatically.

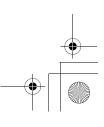
### Note

- · These functions are not available during recording.
- Press [STOP ■] to stop the search.
- If the tape reaches the end during a Search, this unit will cancel the search and rewind the tape.















# Other operations



Press [VCR] first.

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

Press [FWD ▶▶] or [REW ◄◄] during playback.
Press it again and the unit will search in super high speed

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

Press [PAUSE II]. Each time you press the button, the picture will be forwarded frame by frame. If the picture begins to vibrate vertically during the still mode, stabilize the picture by pressing the [PROG. ▲ / ▼].

If the picture is distorted or rolling vertically, adjust the vertical hold control on your TV, if equipped.

### Counter Reset:

Press [CLEAR].

### To play back in slow motion:

Press [SLOW] during playback or the still mode. If the noise bars appear on the TV screen, you can reduce it by pressing [PROG.  $\blacktriangle$  /  $\blacktriangledown$ ].

### 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 play back from the Picture Search / Still / Slow mode, press [PLAY ].

## Hi-Fi Stereo Sound System

This unit will record and playback Hi-Fi stereo sound. This unit will receive stereo and bilingual broadcasts and it is possible to record in several ways and to play back the sound.

### **Selecting the Sound Mode**

You can select each mode by pressing [AUDIO] on the remote control. Each mode is indicated on the TV screen as following.

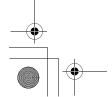
· During reception of bilingual broadcasts

Mode	Audio output	Display on the TV screen
Main	Main audio from the both speakers	Main
Sub	Sub audio from the both speakers	Sub
Main / Sub	Main audio from the left speaker     Sub audio from the right speaker	Main Sub

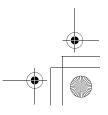
### Note

- If you play back non-Hi-Fi tapes, the unit will play back automatically in monaural even if you select any mode.
- If the stereo signal becomes weak, the broadcast is automatically recorded in monaural.















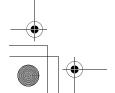
# **Others**

# **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 by you may eliminate the problem and restore correct operation.

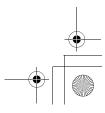
DVD • VCR		
Symptom	Remedy	
The power does not turn on.	Check the mains cable is connected securely.     Check building circuit the breaker (In case of power failure) .	
There is no picture.	<ul> <li>Check signal cables are connected securely.</li> <li>Check if a connecting cable is damaged.</li> <li>Check connections to your TV. (See page 16.)</li> <li>Switch the input selector on your TV (to "AV1," for example) until a picture appears on the screen.</li> </ul>	
TV programme picture does not fill the screen.	<ul> <li>Set channels with "Auto Tuning" from the screen menu. (See page 18.)</li> <li>Select the channel of a TV program using [PROG. ▲ / ▼].</li> </ul>	
TV programme pictures are distorted.	<ul> <li>Adjust the direction of the TV antenna.</li> <li>Adjust the picture (see the TV instruction manual).</li> <li>Place the antenna and the TV farther apart.</li> <li>Separate any bunched antenna cables and the TV.</li> </ul>	
TV channel cannot be changed.	<ul><li>Switch the TV input.</li><li>Check if the antenna cable is connected correctly. (See page 16.)</li></ul>	
The channel cannot be changed from the channel you are recording.	Set the TV input to "TV."	
Playback picture is distorted.	<ul> <li>Do not bring equipment that may cause electrical interference, such as a cellular phone, near the unit.</li> </ul>	
The playback picture or TV programme from equipment connected through the unit is distorted.	<ul> <li>If a DVD player, VCR or tuner is connected to your TV via the unit, 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.</li> </ul>	
Nothing was recorded even though you set the timer setting correctly.	<ul> <li>There was a power failure during recording.</li> <li>The unit's internal clock stopped due to a power failure that lasted for more than 30 seconds.</li> <li>Reset the clock. (See page 20.)</li> <li>Unplug the mains cable from the AC outlet and plug it in again.</li> <li>The programme contains copy protection signals that restrict copying.</li> <li>The timer setting overlapped with another setting that was set later or has priority.</li> </ul>	
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. (See page 30.) There was not enough disc space.	
There is no sound.	The disc is dirty or flawed. Check if all cables are connected securely. Check if a connecting cable is damaged. Check the connections to the amplifier input. Check if the input source setting on the amplifier is correct. Check if the recorder is in Pause mode or in Slow-motion Playback mode. Check if the recorder is in Fast Forward or Fast Reverse mode.	
Timer recording is not possible.	<ul> <li>Make sure indicator appears on the front panel display of this unit. If not, press [T-SET].</li> </ul>	
The remote control does not function.	Batteries are exhausted. There are obstacles between the remote control and the unit. The remote control is too far from the unit. There are no batteries in the remote control. The unit is not turned on. The remote control is not pointed at the remote sensor on the unit. Press [DVD ◎] or [VCR ○ □], whichever you need. Then, try again. If the above remedies do not solve the problem, please call the Service Centre for help.	
The unit does not operate correctly.	If static electricity or anything else causes the unit to operate abnormally, unplug the mains cable and plug it in again.	













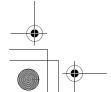




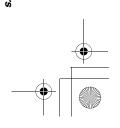


	DVD
Symptom	Remedy
There is no picture.	<ul> <li>If the setting menu display appears, press [SETUP] or [RETURN —] to turn off the display.</li> </ul>
Picture noise appears.	The disc is dirty or flawed. If the unit is connected to your TV via a VCR, or if it is connected to a combination TV / VIDEO player, 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.
Sound is noisy.	The disc is dirty or flawed.
The unit does not play back the disc.	<ul> <li>No disc is inserted.</li> <li>A blank disc is inserted.</li> <li>No cassetetape is inserted.</li> <li>The disc is upside down. Insert the disc with the labeled side facing up.</li> <li>The disc is not correctly inserted.</li> <li>The unit cannot play back certain discs (such as a CD-ROM). (See page 36.)</li> <li>The region codes on the DVD-Video and the unit are not matched. (See page 36.)</li> <li>Moisture has condensed inside the unit. Remove the disc and leave the unit turned on for about two hours until the moisture evaporates. (See page 3.)</li> <li>The unit cannot play back the disc if it was recorded on another recorder and not finalised. (See page 34)</li> </ul>
There is no sound.	If the audio signal is not output from the DIGITAL OUT (OPTICAL (DRV-B2737 only), COAXIAL) jack, check the Audio setting (See page 59).
Playback image freezes for a moment.	<ul> <li>During the playback of a two layered disc, the picture may freeze for a moment while playback switches from the first to the second layer. This is not a malfunction.</li> </ul>
The unit does not play back the disc from the beginning.	<ul> <li>Resume playback is activated. (See page 41.) Press [STOP ■] twice.</li> <li>You have inserted a disc whose title menu or DVD menu automatically appears on the TV screen when it is first inserted.</li> </ul>
The unit starts playing back the disc automatically.	The DVD-Video features an auto playback function.
Some functions such as Stop, Search, or Slow-motion Playback cannot be performed.	<ul> <li>Depending on the disc, you may not be able to perform some of those operations. See the instruction manual supplied with the disc.</li> </ul>
The language for the sound track cannot be changed.	<ul> <li>Multilingual tracks are not recorded on the DVD-Video, DVD-R, or DVD-RW being played back.</li> <li>The DVD-Video prohibits the changing of the language for the sound track.</li> <li>Try changing the language using the DVD-Video menu.</li> </ul>
The subtitle language cannot be changed or turned off.	<ul> <li>Multilingual subtitles are not recorded on the DVD-Video.</li> <li>The DVD-Video prohibits changing the subtitles.</li> <li>Try changing the subtitles using the DVD-Video menu.</li> </ul>
Angles cannot be changed.	<ul> <li>Multi-angles are not recorded on the DVD-Video being played back.</li> <li>You can change the angle only if the disc contains multi-angle scene. Angles can be changed only when the multi-angle scene appears on the screen.</li> <li>The DVD-Video prohibits changing angles.</li> <li>Try changing the angle using the DVD-Video menu.</li> </ul>
Recording does not start immediately after pressing [REC / OTR].	<ul> <li>An unused DVD-R or DVD-RW was inserted. It takes a while for the unit to automatically format a DVD-RW.</li> <li>Make sure the tape has a record tab when you record to a cassette tape. If needed, cover the hole with cellophane tape.</li> </ul>
Recording does not stop immediately after you press [STOP ■].	It will take a few seconds for the unit to send data to disc before recording can stop.
The disc tray does not open when you press [OPEN / CLOSE / EJECT ♠].	<ul><li>It may take a few seconds for the disc tray to open after you have recorded or edited a disc.</li><li>This is because the unit is sending data to the disc.</li></ul>
"Repairing" appears on the display.	<ul> <li>If a power failure occurs or the mains cable is unplugged during recording, finalising, formatting or editing (even after "Wait for moment." message disappeared), a repairing process will begin automatically when the unit is turned on next time. It may take several minutes up to about four hours.</li> </ul>

DVD









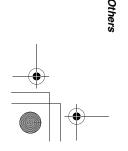




VCR		
Symptom	Remedy	
Picture noise appears.	<ul> <li>Adjust tracking control for better picture by pressing [PROG. ▲ / ▼] while you are playing back a video tape.</li> <li>Head cleaning for VCR may be necessary.</li> <li>Refer to "AUTO HEAD CLEANING".</li> </ul>	
The unit does not play back the tape.	No video tape is inserted.	
Recording does not start immediately after pressing [REC / OTR].	<ul> <li>Make sure the video tape has a record tab when you record to a video tape. If needed, cover the hole with cellophane tape.</li> </ul>	
The remote control does not function.	Check if a video tape is in the unit. Press [VCR  ]. Then, try again.	
The motor rotates even when playback / recording is stopped.	<ul> <li>The motor may rotate for the duration of approximately 5 minutes for efficient operation. This is not a malfunction.</li> </ul>	

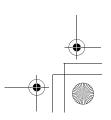












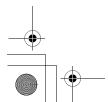




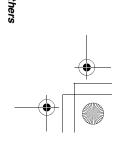


Error message	Cause	Solution
Disc Error  — Please eject the disc. — Playback feature may not be available on this Disc.	An unplayable disc is inserted in the unit.     The disc is upside down.	Insert a standard disc shown in "Playable discs." (See page 36.)     Insert the disc with the labeled side facing up.
Region Error  — Please eject the disc. — Playback is not authorized in your region.	Playback is not authorized in the region of the DVD-Video that you inserted in the unit.	Insert a DVD-Video with region codes 2 or ALL.
Parental Lock On The current selected parental level prohibits playback.	The current selected parental level in the setting menu prohibits playback.	Check the "Parental Lock" setting. (See page 61.)
Recording Error This programme is not allowed to be recorded.	The recording function encountered a copy prohibited programme.     Original source is in NTSC system.	You cannot record copy prohibited programmes.
Recording Error This programme is not recordable in Video mode.	You are trying to record a copy-once programme onto a DVD-RW disc in Video mode.	Set "DVD-RW Recording Format" to "VR mode." (See page 24.)
Recording Error Cannot record on this disc.	You are trying to record onto a disc that is unrecordable, or the disc status does not satisfy recording requirements. The disc is dirty. The disc is damaged.	Insert a recordable disc, and ensure the disc status satisfies the recording requirements. (See page 22.) Clean the disc with a cleaning cloth. Replace the disc.
Recording Error This programme is not allowed to be recorded on this disc.	You are trying to record a copy-once programme onto a DVD-RW disc that is not compatible with CPRM.	Insert a ver. 1.1 or ver. 1.2 DVD-RW disc (compatible with CPRM.)
Recording Error This disc is protected and not recordable.	You are trying to record onto a disc that is set as protected in the Disc Setting Menu.	Remove the disc protect setting in the Disc Setting menu. (See page 34.)
Recording Error Disc is full. (No area for new recording)	You are trying to record onto a disc that has no space for recording.	Insert a 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 a disc on which the number of recorded titles has reached the maximum (99).	Delete unnecessary titles. (See page 51.)
Recording Error You cannot record more than 999 chapters on one disc. (The maximum is 999.)	You are trying to record onto a disc on which the number of recorded chapters has reached the maximum (999).	This unit cannot delete the original chapter. Delete unnecessary chapter marker on other DVD recorders.  Delete unnecessary titles from an original list. (See page 51.)
Recording Error You cannot record on this disc as Control Information is full.	This disc has no space to write Control Information when recording or deleting contents. When editing has been repeatedly performed, the control information area may become full even though the recording area has enough space.	Delete unnecessary titles. (See page 51.)
Recording Error You cannot record on this disc as Power Calibration Area is full.	When recordings are performed repeatedly onto an unstable disc, this area may become full.  Every time you insert a disc for recording, part of the disc's working area will be used.  If you repeat this frequently, it will be used up quicker and you may not be able to record full 99 titles.	• Insert a new disc.
Recording Error This disc is already finalised.	You are trying to record onto a disc that is already finalised.	Release the finalising for the disc. (See page 34.)

<sup>\*</sup> If you are still having trouble with the unit after checking all the Troubleshooting points, write down the error code and the error description and consult your dealer or an authorized service centre.













# Language code

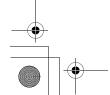
Language	Code	
(Afan) Oromo	6159	F
Abkhazian	4748	F
Afar	4747	F
Afrikaans	4752	G
Albanian	6563	G
Amharic	4759	G
Arabic	4764	G
Armenian	5471	G
Assamese	4765	G
Aymara	4771	G
Azerbaijani	4772	Н
Bashkir	4847	Н
Basque	5167	Н
Bengali;Bangla	4860	Н
Bhutani	5072	lo
Bihari	4854	Ir
Bislama	4855	Ir
Breton	4864	Ir
Bulgarian	4853	Ir
Burmese	5971	Ir
Byelorussian	4851	It
Cambodian	5759	Ja
Catalan	4947	Ja
Chinese	7254	K
Corsican	4961	K
Croatian	5464	K
Czech	4965	K
Danish	5047	K
Dutch	6058	K
English	5160	K
Esperanto	5161	K
Estonian	5166	L
Faroese	5261	L
Fiji	5256	L

Finnish         5255           French         5264           Frisian         5271           Galician         5358           Georgian         5747           German         5051           Greek         5158           Greenlandic         5758           Guarani         5360           Gujarati         5367           Hausa         5447           Hebrew         5569           Hindi         5455           Hungarian         5467           Icelandic         5565           Indonesian         5560           Interlingua         5547           Interlingua         5551           Inupiak         5557           Irish         5347           Italian         5566           Jayanese         5669           Kannada         5760           Kashmiri         5765           Kazakh         5757           Kinyarwanda         6469           Kirghiz         5771           Kirudish         5767           Latin         5847           Latin         5847           Latvian; Lettish	Language	Code
Frisian         5271           Galician         5358           Georgian         5747           German         5051           Greek         5158           Greenlandic         5758           Guarani         5360           Gujarati         5367           Hausa         5447           Hebrew         5569           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           Kiryarwanda         6469           Kirundi         6460           Korean         5761           Kurdish         5767           Laothian         5861           Latin         5847	Finnish	5255
Galician         5358           Georgian         5747           German         5051           Greek         5158           Greenlandic         5758           Guarani         5360           Gujarati         5367           Hausa         5447           Hebrew         5569           Hindi         5455           Hungarian         5467           Icelandic         5565           Indonesian         5560           Interlingua         5547           Inupiak         5557           Irish         5347           Italian         5566           Japanese         5669           Kannada         5760           Kashmiri         5765           Kazakh         5757           Kinyarwanda         6469           Kirundi         6460           Korean         5761           Kurdish         5767           Laothian         5861           Latin         5847	French	5264
Georgian         5747           German         5051           Greek         5158           Greenlandic         5758           Guarani         5360           Gujarati         5367           Hausa         5447           Hebrew         5569           Hindi         5455           Hungarian         5467           Icelandic         5565           Indonesian         5560           Interlingua         5547           Interlingue         5551           Inupiak         5557           Irish         5347           Italian         5566           Jayanese         5669           Kannada         5760           Kashmiri         5765           Kazakh         5757           Kinyarwanda         6469           Kirundi         6460           Korean         5761           Laothian         5861           Latin         5847	Frisian	5271
German         5051           Greek         5158           Greenlandic         5758           Guarani         5360           Gujarati         5367           Hausa         5447           Hebrew         5569           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           Kirundi         6460           Korean         5761           Laothian         5861           Latin         5847	Galician	5358
Greek         5158           Greenlandic         5758           Guarani         5360           Gujarati         5367           Hausa         5447           Hebrew         5569           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           Kirundi         6460           Korean         5761           Kurdish         5767           Laothian         5861           Latin         5847	Georgian	5747
Greenlandic         5758           Guarani         5360           Gujarati         5367           Hausa         5447           Hebrew         5569           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           Kirundi         6460           Korean         5761           Kurdish         5767           Laothian         5847	German	5051
Guarani         5360           Gujarati         5367           Hausa         5447           Hebrew         5569           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           Kirundi         6460           Korean         5761           Kurdish         5767           Laothian         5861           Latin         5847	Greek	5158
Gujarati         5367           Hausa         5447           Hebrew         5569           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           Laothian         5861           Latin         5847	Greenlandic	5758
Hausa         5447           Hebrew         5569           Hindi         5455           Hungarian         5467           Icelandic         5565           Indonesian         5560           Interlingua         5547           Interlingue         5551           Inupiak         5557           Irish         5347           Italian         5566           Japanese         5647           Javanese         5669           Kannada         5760           Kazakh         5757           Kinyarwanda         6469           Kirghiz         5771           Kirundi         6460           Korean         5761           Kurdish         5767           Laothian         5861           Latin         5847	Guarani	5360
Hebrew         5569           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           Laothian         5861           Latin         5847	Gujarati	5367
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           Laothian         5861           Latin         5847	Hausa	5447
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         5767           Laothian         5861           Latin         5847	Hebrew	5569
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           Laothian         5861           Latin         5847	Hindi	5455
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           Laothian         5861           Latin         5847	Hungarian	5467
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           Laothian         5861           Latin         5847	Icelandic	5565
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           Laothian         5861           Latin         5847	Indonesian	5560
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	Interlingua	5547
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	Interlingue	5551
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	Inupiak	5557
Japanese         5647           Javanese         5669           Kannada         5760           Kashmiri         5765           Kazakh         5757           Kinyarwanda         6469           Kirghiz         5771           Kirundi         6460           Korean         5761           Kurdish         5767           Laothian         5861           Latin         5847	Irish	5347
Javanese       5669         Kannada       5760         Kashmiri       5765         Kazakh       5757         Kinyarwanda       6469         Kirghiz       5771         Kirundi       6460         Korean       5761         Kurdish       5767         Laothian       5861         Latin       5847	Italian	5566
Kannada       5760         Kashmiri       5765         Kazakh       5757         Kinyarwanda       6469         Kirghiz       5771         Kirundi       6460         Korean       5761         Kurdish       5767         Laothian       5861         Latin       5847	Japanese	5647
Kashmiri       5765         Kazakh       5757         Kinyarwanda       6469         Kirghiz       5771         Kirundi       6460         Korean       5761         Kurdish       5767         Laothian       5861         Latin       5847	Javanese	5669
Kazakh       5757         Kinyarwanda       6469         Kirghiz       5771         Kirundi       6460         Korean       5761         Kurdish       5767         Laothian       5861         Latin       5847	Kannada	5760
Kinyarwanda       6469         Kirghiz       5771         Kirundi       6460         Korean       5761         Kurdish       5767         Laothian       5861         Latin       5847	Kashmiri	5765
Kirghiz         5771           Kirundi         6460           Korean         5761           Kurdish         5767           Laothian         5861           Latin         5847	Kazakh	5757
Kirundi         6460           Korean         5761           Kurdish         5767           Laothian         5861           Latin         5847	Kinyarwanda	6469
Korean         5761           Kurdish         5767           Laothian         5861           Latin         5847	Kirghiz	5771
Kurdish         5767           Laothian         5861           Latin         5847	Kirundi	6460
Laothian 5861 Latin 5847	Korean	5761
Latin 5847	Kurdish	5767
	Laothian	5861
Latvian; Lettish 5868	Latin	5847
	Latvian; Lettish	5868

Language	Code
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
Russian	6467
Samoan	6559
Sangho	6553
Sanskrit	6547
Scots Gaelic	5350
Serbian	6564
Serbo-Croatian	6554
Sesotho	6566
Setswana	6660
Shona	6560

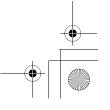
Language	Code
Sindhi	6550
Singhalese	6555
Siswat	6565
Slovak	6557
Slovenian	6558
Somali	6561
Spanish	5165
Sundanese	6567
Swahili	6569
Swedish	6568
Tagalog	6658
Tajik	6653
Tamil	6647
Tatar	6666
Telugu	6651
Thai	6654
Tibetan	4861
Tigrinya	6655
Tonga	6661
Tsonga	6665
Turkish	6664
Turkmen	6657
Twi	6669
Ukrainian	6757
Urdu	6764
Uzbek	6772
Vietnamese	6855
Volapuk	6861
Welsh	4971
Wolof	6961
Xhosa	7054
Yiddish	5655
Yoruba	7161
Zulu	7267





ΕI







# \_\_\_\_







### Analogue audio

An electrical signal that directly represents sound. In contrast, digital audio can also 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 (i.e., the screen is almost square). widescreen models are 16:9 (the screen is almost twice as wide as its height).

### 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.

### **CM SKIP**

This unit can skip TV commercials during DVD Video playback. Once [CM SKIP] is pressed, the start point will be set forward 30 seconds and playback resume automatically. (You can press [CM SKIP] up to 6 times.)

### CPRM (Content Protection for Recordable Media)

CPRM is a scrambling copy protection system for the protection of "copy-once" broadcast programmes (e.g. some satellite broadcasts).

### Digital audio

An indirect representation of sound using numbers. During recording, the sound is measured at discrete intervals (44 or 100 times a second for CD audio) by an analogue-to-digital converter, generating a stream of numbers. On playback, a digital-to-analogue converter generates an analogue signal based on these numbers. See also Sampling frequency and Analogue audio.

### **Dolby Digital**

A system developed by Dolby Laboratories that compresses digital sound. It works with stereo (2ch) or multi-channel audio.

# DTS (Digital Theater System)

DTS is a Multi-channel surround sound system, but it is different from Dolby Digital. Both formats were developed by Digital Theater System, Inc.

### **Finalise**

To make DVDs that have been recorded playable in DVD players. It is possible to finalise DVD-R / DVD-RW discs with this unit.

### JPEG (Joint Photographic Experts Group)

JPEG is a method of compressing still image files. You can copy JPEG files on CD-RW / R discs from a computer and play back the files on this unit.

# MP3 (MPEG Audio Layer 3)

MP3 is a method of compressing files. You can copy MP3 files on CD-RW / R discs from a computer and play back the files on this unit.

### PBC (Video CD only) (Playback Control)

This function enables you to play back interactive software using a menu screen. See also Title.

# PCM (Pulse Code Modulation)

PCM is a format that converts audio into digital data. It is mainly used for Audio CDs and DAT. This unit can play back sounds as realistic as possible by converting even compressed Dolby Digital and MPEG audio to PCM.

### **Playlist**

From this list you can play back contents of a disc in your desired order or in sequence. It is also possible to directly search for a specific scene.

### Region code

Regions associate discs and players with particular areas of the world. This unit will only play back 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 at which sound is measured by a specified interval to turn it into digital audio data. The number of samples in one second is defined as the sampling frequency. The higher the rate is, the better the possible sound quality.

### S-Video output

Video is output as the individual signals of colour(C) and luminance(Y), so a higher-quality picture will be displayed.

### Title

### (DVD)

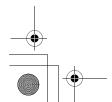
A collection of chapters on a DVD. See also chapter.

### (Video CD)

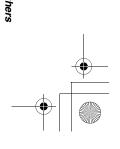
The contents of a Video CD. When playing back a Video CD with the PBC function, the title menu will appear automatically.

### Track

Audio CDs and Video CDs use tracks to divide the contents of a disc. The DVD equivalent is called a chapter. See also Chapter.













# **Specifications**

•	
General	
System	DVD-Video, DVD-RW / R, DVD+RW / R, CD-DA, CD-RW / R. Video Cassette Tape
VCR video heads	Four heads
Power requirements	220–240 V ~ ± 10%, 50 Hz ± 0.5%
Power consumption	35 W (standby: 5.0 W)
Weight	4.3 kg
Dimensions (width x height x depth)	435 x 100 x 261 mm
Operating temperature	5°C to 40°C
Operating humidity	5% to 85% (no condensation)
TV format	PAL - I
Recording	
Recording format	Video Recording format (DVD-RW only), Video format (DVD-RW, DVD-R)
Recordable discs	DVD-ReWritable, DVD-Recordable
Video recording format	
Sampling frequency	13.5 MHz
Compression format	MPEG
Audio recording format	40 141-

48 kHz Dolby Digital

### Tuner

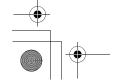
Receivable channels IRA - E69

Sampling frequency Compression format

## Note

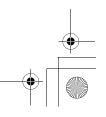
• The specifications and design of this product are subject to change without notice.

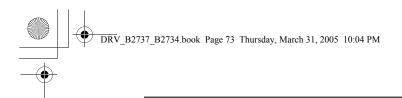


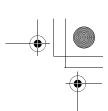






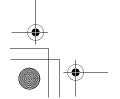




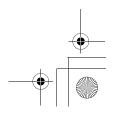


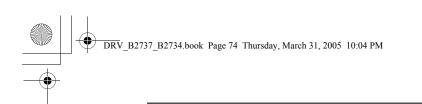


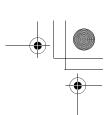






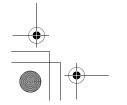






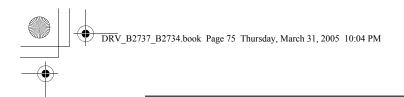


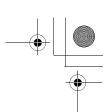






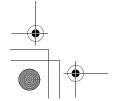




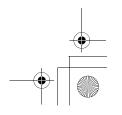




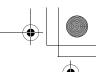














This product complies with the requirement of the directives

EMC-Directive: 89 / 336 / EEC
Low Voltage Directive: 73 / 23 / EEC
CE Marking: 93 / 68 / EEC

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We declare that the following product:

DVD Recorder with Video Cassette Recorder, Models DRV-B2737/DRV-B2734 are in compliance with following Regulations.

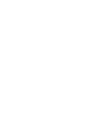
EN55013: 2001+A1:2003, EN55020: 2002+A1:2003, EN61000-3-2: 2000, EN61000-3-3: 1995 + A1: 2001

EN60065: 1998

EN60825-1 Edition 1.2: 2001

Questions and Help on this products, please call

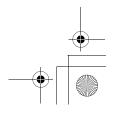
Help Line: 0870 3833010 in UK.







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