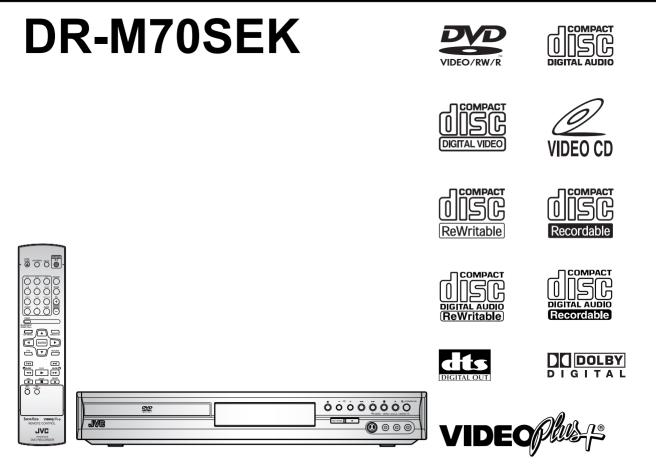
JVC



DVD VIDEO RECORDER





VIDEO Plus+ and PlusCode are registered trademarks of Gemstar Development Corporation. The VIDEO Plus+ system is manufactured under license from Gemstar Development Corporation.

LPT1081-001A



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Accessories Supplied

- · Remote control with two R6 (AA) batteries
- RF cable

Instruction Manual

Precautions

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



CAUTION:

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

The rating plate and the safety caution are on the rear and the bottom of the unit.



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

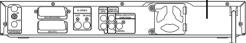
This unit employs a laser. Only a qualified service personnel should remove the cover or attempt to service this unit, due to the possibility of eye injury.

- **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.
- This unit is classified as a CLASS 1 LASER product.
 The CLASS 1 LASER

embossed on the rear cover.

PRODUCT marking is





Power Supply

The power supply is connected and the unit is live when the mains cable is plugged into a 220–240 V \sim , 50 Hz AC outlet. To operate the unit, press **[STANDBY/ON** \bigcirc /**I]**.

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.
- 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 or covered.

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.
- 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.
- Do not spill liquid on the unit. If liquid is spilled and enters the unit, consult qualified service personnel.
- 7. 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.
- 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 outlet.

Information for Users on **Disposal of Old Equipment** [European Union] This symbol indicates that the electrical and electronic equipment should not be disposed as general household waste at its end-of-life. Instead, the product should be handed over to the applicable collection point for the recycling of electrical and electronic equipment for proper treatment, recovery and recycling in accordance with your national legislation. By disposing of this product correctly, you Attention: will help to conserve natural resources This symbol is and will help prevent potential negative only valid in the European Union. effects on the environment and human health which could otherwise be caused by inappropriate waste handling of this product. For more information about collection point and recycling of this product, please contact your local municipal office, your household waste disposal service or the shop where you purchased the product. Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation. (Business users) If you wish to dispose of this product, please visit our web page www.jvc-europe.com to obtain information about the take-back of the product **[Other Countries outside** the European Union1 If you wish to dispose of this product, please do so in accordance with applicable national legislation or other rules in your country for the treatment of old electrical and electronic equipment. 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 waste.



· Contact your council for details.

For Customer Use:

Carefully read the Model No. and Serial No. located at the back of the unit and enter the information below. Retain this information for future reference. Model No

		_
0	NI -	
Serial	INO.	

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.

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.

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.

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 mains.

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.

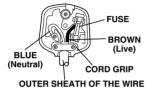
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

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

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 $\frac{1}{2}$ or coloured green or green and yellow.



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 disc 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 Instruction 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.

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Features

Along with playing back CDs and recording, editing, and playing back DVDs, this unit offers you the following features.

Recording

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

Recording up to 8 programmes :

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 o]** is pressed during recording, the recording time will be increased by 30 minutes up to 4 hours. The recording automatically stops when the recording time you set is finished.

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.

Left channel stereo recording:

The unit can record monaural sound from the Left channel as pseudo stereo sound (same Left and Right channels) automatically. (This function is not available for input source of AV3 jacks on the rear panel.)

Playback

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.

Editing

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

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.

VIDEO Plus+® system:

You can set timer recording using the VIDEO Plus+ system by just entering the PlusCode number from a TV guide magazine.

Guide to the Instruction Manual

Symbols used in the Instruction Manual

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

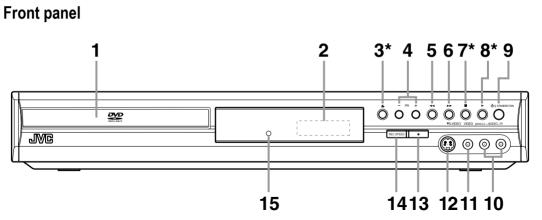
Symbol	Description
BVD-V	Available for DVD-Videos
DVD-RW	Available for DVD-RW discs in Video mode
	Available for DVD-RW discs in VR mode
BVD-R	Available for DVD-R discs in Video mode
BVD+RW	Available for DVD+RW discs*
BVD+R	Available for DVD+R discs*
Ged	Available for Audio CDs
GVCD	Available for Video CDs
CMP3	Available for CD-RW / R discs with MP3 files
	Available for CD-RW / R discs with JPEG files

* There may be a disc which cannot be used or played back.

Button names described in the Instruction 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



*You can also turn on the unit by pressing these buttons.

1 Disc tray

• Place a disc here when open.

2 Display

• Refer to "Front Panel Display Guide" on page 14.

3 OPEN/CLOSE ▲ button*

· Press to open or close the disc tray.

4 PR(OGRAMME) +/- buttons

• Press up or down to change the channel.

5 REV **44** button

- During playback, press to skip to the previous chapter or track.
- During playback, press and hold for 1.5 seconds to fast reverse.
- When playback is paused, press repeatedly to slow reverse.

6 FWD ►► button

- During playback, press to skip to the next chapter or track.
- During playback, press and hold for 1.5 seconds to fast forward.
- When playback is paused, press repeatedly to slow forward.

7 STOP ■ button*

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

8 PLAY ▶ button*

· Press to start or resume playback.

9 STANDBY/ON Ů/I button

- Press to turn on or off the unit.
- If timer programming is set, press to switch the unit to timer-standby mode.

10 AUDIO input jacks (AV4)

• Use to connect external equipment with standard Audio cables.

11 VIDEO input jack (AV4)

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

12 S-VIDEO input jack (AV4)

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

13 REC button

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

14 REC SPEED button

• Press to switch the recording speed.

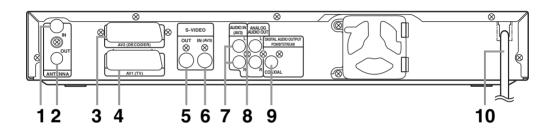
15 Remote control sensor

• Receives signals from your remote control so you can control the unit from a distance.

Button names described in the Instruction 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.

Rear panel



1 ANTENNA IN

· Connect to an antenna or a cable.

2 ANTENNA OUT

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

3 AV2 (DECODER)

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

4 AV1 (TV)

• Connect to the Scart jack on your TV. Use a commercially available Scart cable.

5 S-VIDEO OUT jack

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

6 S-VIDEO IN (AV3) jack

• Connect to the S-Video output jack on your VCR, camcorder or other equipment. Use a commercially available S-Video cable.

7 AUDIO IN (AV3) jacks

 Connect to the audio output jacks on your VCR, camcorder or other Audio-Video equipment. Use commercially available Audio cables.

8 ANALOG AUDIO OUT jacks

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

9 DIGITAL AUDIO OUTPUT PCM/BITSTREAM (COAXIAL) jack

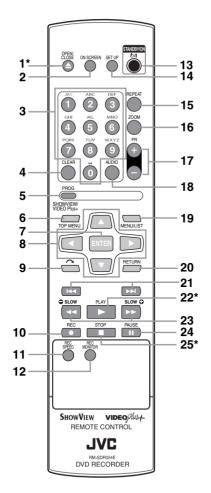
• Connect to an amplifier with digital input jacks such as a Dolby Digital decoder or DTS decoder. Use a commercially available Coaxial cable.

10 Mains cable

· Connect to a standard AC outlet.

- 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



*You can also turn on the unit by pressing these buttons.

1 OPEN/CLOSE ▲ button*

• Press to open or close the disc tray.

2 ON SCREEN button

• Press to display the on-screen display.

3 Number buttons

- 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 characters in edit function.

4 CLEAR button

- 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.

5 PROG/VIDEO Plus+ button

- Press once to display the VIDEO Plus+ setting window.
- Press twice to display the Timer Programming list.

6 TOP MENU button

• Press to display the top menu.

7 ENTER button

• Press to confirm or select menu items.

8 Cursor $\blacktriangle / \checkmark / \checkmark / \blacklozenge$ buttons

Press to select items or settings.

9 🔿 (CM SKIP) button

• During playback, press to skip 30 seconds. (See page 38.)

10 REC button

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

11 REC SPEED button

• Press to switch the recording speed.

12 REC MONITOR button

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

13 STANDBY/ON රා/I button

- Press to turn on or off the unit.
- If timer programming is set, press to switch the unit to the timer-standby mode.

14 SET UP button

• Press to display the setting menu in stop mode.

15 REPEAT button

· Press to select the repeat mode.

16 ZOOM button

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

17 PR(OGRAMME) +/- buttons

• Press up and down to change the channel.

18 AUDIO button

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

19 MENU/LIST button

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

20 RETURN button

• Press to return to the previously displayed menu screen.

21 Idd (SKIP) button

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

►► (SKIP) button

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

22 PLAY ► button*

Press to start or resume playback.

23 SLOW 🗢 /REV < button

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

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

24 PAUSE II button

· Press to pause playback or recording.

25 STOP ■ button*

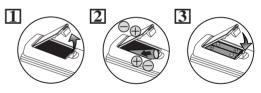
· Press to stop playing back or recording.

Button names described in the Instruction 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.

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.

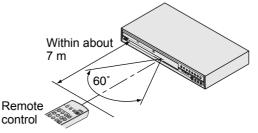


Caution

- 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.

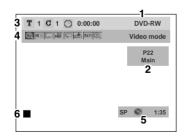


- Remote control operation may become unreliable if the remote control sensor of the unit is being exposed by the strong sunlight or fluorescent light.
- Remote controls for different devices can interfere with each other. Be careful when using remote controls for other equipment located close to the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

Guide to On Screen Displays

DISPLAY menu

With a disc inserted into the unit, press [ON SCREEN] 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
- E : Subtitle
- E : Angle (except VR mode)
- C: Repeat
- : Marker
- **NR**: Noise Reduction
- 🕑 : Zoom
- 5 Recording mode and remaining time.
- 6 Status of the current disc.

Setting menus

Press **[SET UP]** 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 [SET UP] 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 [SET UP] in stop mode.)

Easy Setting Menu:

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

	Easy Setting Menu	
1	Clock	
2	CH Channel	
3	NVD-RW Recording Format	Video mode
4	IIII Timer Programming	
5	Auto Finalise	
6	S Disc	
	Advanced Setting Menu	

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.

4 Timer Programming:

Programme a timer recording.

5 Auto Finalise:

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 containing MP3 / JPEG files is inserted into the unit.

Advanced Setting Menu:

You can make all the settings available as follows.

	Advanced Setting Menu
1	▶ Playback
2	Recording
3	Display
	Select Video
5	Clock
6	CH Channel
7	Disc Disc
l	Easy Setting Menu

1 Playback:

Set up the unit to play back a disc.

2 Recording:

Set up the unit to record to a disc.

3 Display:

Set up the screen and the front panel display of the unit.

4 Select Video:

Choose an external input to record from other video equipment to DVDs.

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 containing MP3 / JPEG files is inserted into the unit.

DVD-R & DVD-RW (Video mode)

	S Disc
1	Title List
1 2 3	Format
3	Finalise

DVD-RW (VR mode)

	S Disc
1	Playlist
1	Original
1 2 3 4	Format
3	Finalise
4	Disc Protect OFF ⇒ON

CD, MP3, JPEG & Video CD

Random Play	
Program Play	
PBC(Video CD only)	ON
Slide Show	5 sec.

Before you star

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 in Video mode with this unit on other DVD recorder. When you use a disc with other 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.

6 Program Play (except MP3 / JPEG files):

Activate the programmed playback feature.

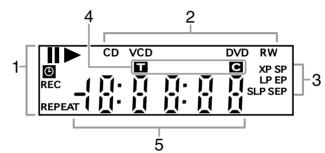
7 PBC (Video CD only):

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

8 Slide Show (JPEG files only):

Select the display time.

Front Panel Display Guide



1 Current status of the unit

- II: Appears when disc playback is paused. Appears also during step by step playback.
- : Appears when playing back a disc.
- Appears during slow forward or slow reverse 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. : Appears when recording.
- REC: Appears when recording. Flashes when recording being paused. REPEAT:

Appears during repeat playback.

2 Disc type and Current status of the unit

- **CD:** Appears when an Audio CD or a disc containing MP3 / JPEG files 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 during the recording.

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.

3 Recording speed

· Selected recording speed appears.

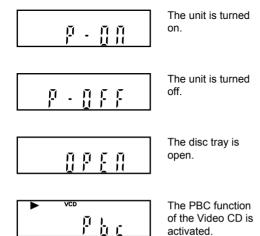
4 Title / Track and Chapter mark

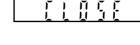
- T: Title / track number
- C: Chapter number

5 Displays the following

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

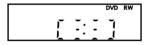
Display messages





The disc tray is closing.

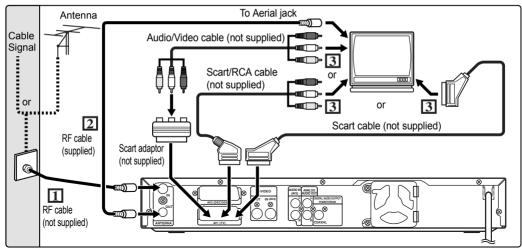




A disc is inserted into the unit.

Data is being recorded on a disc.

Getting Started



Connections

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 ANTENNA IN jack of this unit.
- 2 Connect the ANTENNA 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 a commercially available Scart cable or Scart / RCA cable.

Note

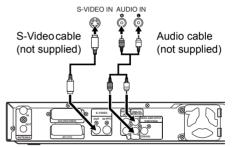
 If your TV does not have a Scart jack, use commercially available Scart adaptor or Scart / RCA cable to connect.

Using the S-VIDEO OUT jack and the ANALOG AUDIO OUT jack

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 a commercially available S-Video cable.

3 Connect the ANALOG AUDIO OUT jacks of this unit to the analogue Audio input jacks of your TV. Use a commercially available Audio cable.



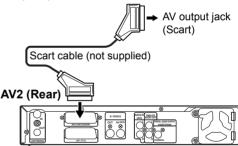
Note for a TV with no S-Video input jacks or Scart jack:

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

Connecting to external equipment

This unit has four input terminals, AV1, AV2 or AV3 on the rear panel and AV4 on the front panel. Be sure that all the units are off before making connections.

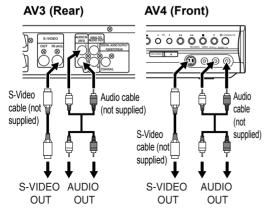
Recording from a DVD player, VCR or other Audio-Video equipment with a Scart output jack (AV2)



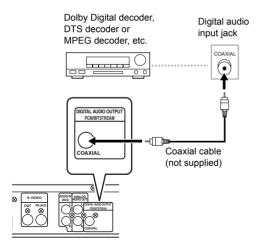
Recording from a camcorder or other Audio-Video equipment with no Scart output jack (AV3 or AV4)

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

Change the setup when using S-VIDEO input jack. (See page 30.)



Digital audio for better sound quality



The connections illustrated above are optional for better sound.

1 For clear digital sound quality, use the DIGITAL AUDIO OUTPUT PCM/ BITSTREAM (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 57.)
- After connecting to a DTS decoder, set "DTS" to "ON" in the AUDIO menu. (See page 57.)
- After connecting to a MPEG decoder, set "MPEG" to "Stream" in the AUDIO menu. (See page 57.)

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 ANALOG 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 Instruction Manual of your TV.

Note

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

Channel setting

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

Auto tuning 🔍

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

- 1 Press [STANDBY/ON ♡/I] 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 [SET UP]. "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 [SET UP] to exit.

You can select only the channels memorized in this unit by using **[PR +/-]**.

To select a channel

You can select a channel using **[PR +/-]**, or directly enter the channel using **[the Number buttons]** on the remote control.

To cancel auto tuning

Press [RETURN] or [SET UP] during scanning.

Note

- 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.
- Sorting of TV channels from P01 to P06 will be performed automatically as follows.
 P01: BBC1 P02: BBC2 P03: ITV P04: CH4 P05: CH5 P06: SKY NEWS
 If you are using a satellite receiver, turn it on and
- * If you are using a satellite receiver, turn it on and select SKY NEWS before commencing tuning.

Manual tuning 🔍

Manually tune each channel.

- In stop mode, press [SET UP]. "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].

Position	P01
Channel	12
Decoder	OFF
Skip	ON

- 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.

- 6 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.
 (To select channel 4, press [0] first and then press [0] and [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.
- 8 After completion, press [SET UP] to exit.

To select a channel

Getting Starteo

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", "AV3" or "AV4."
 - To select "AV1," press [0], [0], [1].
 - To select "AV2," press [0], [0], [2].
 - To select "AV3," press [0], [0], [3].
 - To select "AV4," press [0], [0], [4].

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 **[PR +/-]**.

- 1 Follow steps 1 to 3 in "Manual tuning."
- 2 Select "Position" using [Cursor ▲ / ▼], then press [ENTER].
- 3 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 [SET UP] to exit.

Move

You can replace two channels.

- 1 In stop mode, press [SET UP].
- 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.

6 Move the channel to another position number using [Cursor ▲ / ▼], then press [ENTER].

• To move another channel, repeat steps 5 to 6.

7 Press [SET UP] to exit.

Setting the clock

Clock Setting

- 1 In stop mode, press [SET UP]. "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 Press [ENTER].

5 Press [ENTER] again.

The default date will appear.

Clock Setti	ing
	01 / 01/ 2005(SAT) 0: 00

6 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 [SET UP] 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.

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).

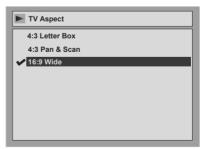
- 1 In stop mode, press [SET UP].
- 2 Select "Advanced Setting Menu" using [Cursor ▲ / ▼], then press [ENTER].

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].

Playback	
TV Aspect	16:9 Wide
Parental Lock	All 💼
Disc Menu Language	English
Audio Language	Original
Subtitle Language	OFF
Digital Out	
Dynamic Range Control	ON
Fast Forward with Audio	ON
Video Out	

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



6 Press [SET UP] 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."

This unit will automatically switch a compatible widescreen TV into widescreen mode when playing back the discs recorded in Video mode with this unit. To play back 4:3 recordings on a 16:9 TV, please select 4:3 mode on your TV.

Recording

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.



 8 cm / 12 cm, single-sided, single layer disc

• Max. recording time (SEP mode, approx.):

600 minutes (4.7 GB) (for 12 cm) 180 minutes (1.4 GB) (for 8 cm)

If you want to record repeatedly on the same disc, or if you want to edit the disc after recording, use a rewritable DVD-RW type disc.

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

- Discs that should be used with this recorder: DVD-R: 4x or 8x DVD-RW: 2x or 4x
- 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 31) before playing them back in other DVD players. Unless finalised, you can 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.

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

Disc type Disc format		Functions	
ava	Video mode	Playing back, Limited recording, Limited editing	
RW	VR mode	Playing back, Recording, Original / Playlist editing	
R R4.7	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	ng speed	Recording time		Video /	
TV screen	Front Panel Display	12 cm	8 cm	Sound Quality	
ХР	ХР	60 min	18 min	Excellent	
SP	SP	120 min	36 min	Very good	
LP	LP	240 min	72 min	Good	
EP	EP	360 min	108 min	Average	
SLP	SLP	480 min	144 min	Low	
SEP	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.

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 screen.

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.

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- once	Copy- prohibited
ver.1.1 / ver. 1.2	☆ ☆	 ☆	
ver.1.1 / ver. 1.2 ver.1.1 / ver. 1.2 ver.1.1 / ver. 1.2 CPRM compatible	☆ ☆	_	_
BVD-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 recorders.
- It is not possible to use a DVD-RW (Video mode) disc formatted with this unit on other 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 31.) You cannot finalise discs in other DVD recorders.

After finalising

- After DVD-R discs are finalised:
 - A title menu is created automatically.
 - Undo finalising is not possible.
 - Additional recording or editing is not possible.
- After DVD-RW (Video mode) discs are finalised:
 A title menu is created automatically.
 - A me menu is created automatically.
 Undo finalising is possible (See page 31).
 - Additional recording or editing is possible if you undo finalise. (See page 31.)
- After DVD-RW (VR mode) discs are finalised:
 - A title menu is not created.
- Undo finalising is possible. (See page 31.)Additional recording or editing is possible even
- Additional recording or eating is possible even without undo finalising.

Usable discs

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

Applications	DVD-RW		DVD-R
Applications	VR	VIDEO	DVD-R
Record TV programmes	***	***	**
Reuse by deleting the current contents	***	黄黄	—
Edit the contents	***	★	★
Edit / Record from external equipment	***	***	***
Copy discs for distribution	★★*	黄黄黄	贪贪贪
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

* 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 Instruction 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 [SET UP].

- 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].

V V	deo mode
V	R mode
Vida	o mode
vide	
	VD Player Compatibility mode.

6 Press [SET UP] to exit.

Note

- 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.
- 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



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.

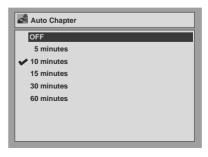
- 1 In stop mode, press [SET UP].
- 2 Select "Advanced Setting Menu" using [Cursor ▲ / ▼], then press [ENTER].

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].



5 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 / \triangledown], then press [ENTER].

6 Press [SET UP] to exit.

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 [SET UP].

"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].

۲	Format
Ye	s
No	
	Are you sure?
	Are you sure? Yes No
L '	

A popup window will appear and prompt you to confirm.

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 in Video mode with this unit on other DVD recorder. When you use a disc with other DVD recorder, format a disc using that DVD recorder.
- · You cannot cancel formatting once it has started.

Selecting the Sound mode

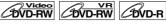
This unit can receive bilingual broadcasts.

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



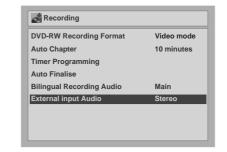
When the external input audio is a bilingual broadcast, you can choose "Stereo" or "Bilingual" to record on a DVD.

1 In stop mode, press [SET UP].

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].

Recording



6 Press [SET UP] to exit.

Hint

- If you select "Stereo": The audio will be recorded as "stereo audio."
- If you select "Bilingual": The audio will be recorded as "bilingual audio" (see next section for more detail).

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 [SET UP].

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].

💰 B	ilingual Reco	rding Audio)	
✓ M	ain			
Su	b			

6 Press [SET UP] to exit.

Note

 If you are recording onto a VR mode disc, both "Main" and "Sub" will be recorded regardless of your setting here. And when you play back, you can choose either audio format or a combination of both as your playback audio.

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 Select the recording speed using [REC SPEED]. (See page 20.)

Make sure that the recording format is set to the desired mode. (See page 22.)

3 Select the desired channel to record using [PR +/-] or [the Number buttons].

4 Press [REC ●] to start recording.

The ● mark will be displayed for 5 seconds.

To pause the recording, press [PAUSE II]. Press [REC \bullet] to restart the recording.

5 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.

- 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.

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.

1 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 XP ightarrow SP ightarrow LP ightarrow EP ightarrow SLP ightarrow 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 will be output.

One-touch timer recording (OTR)

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.

1 Turn on the unit and insert a recordable disc.

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

2 Select the recording speed using [REC SPEED]. (See page 20.)

Make sure that the recording format is set to the desired mode. (See page 22.)

- 3 Select the desired channel to record using [PR +/-] or [the Number buttons].
- 4 Press [REC ●] repeatedly until the desired recording time (30 minutes to 4 hours) appears on the TV screen.

One-touch timer recording will start.



- To change the recording length during onetouch timer recording, press [REC •] 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 ION SCREENI 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 •] or [STOP ■].

- 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.
- When an OTR finishes, the unit automatically turns itself off. If there is any timer recording in standby, the unit automatically switches to the timer-standby mode. Press **[STANDBY/ON** *⊕*/**I**] 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 [PROG] twice. In this case, continue from step 5.

Insert a recordable disc.

1 In stop mode, press [SET UP].

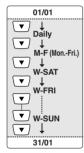
- 2 If you select "Advanced Setting Menu," proceed to step 3. If you select "Easy Setting Menu," proceed to step 4.
- 3 Select "Recording" using [Cursor ▲ / ▼], then press [ENTER].
- 4 Select "Timer Programming" using [Cursor ▲ / ▼], then press [ENTER]. The Timer Programming list will appear.
- 5 Select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

IIII Timer	Programm	ing		
Date	Start	End	СН	Speed
1				
2				
3				
4				
5				
6				
7				
8				

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

Each time you press **[Cursor** \checkmark] 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," "AV3" or "AV4".

9 Select the recording speed using [Cursor ▲ / ▼], then press [Cursor ▶]. (See page 20.)

10 Press [ENTER] when all information required is entered.

Your programme setting is stored.

- To set another programme, repeat steps 5 to 10.
- To exit, press [SET UP] or [PROG].
- If the recording times of two or more programmes overlap, "Overlap" and overlapped programme numbers are displayed. (See pages 27 and 29.)

III Timer	Programn	ning		
Date	Start	End	СН	Speed
1.01/01	12:00	13:00	P01	XP
2				
3				
4				
5				
6				
7				
8				

11 Press [STANDBY/ON U/I].

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

- If you have not set the clock, the clock setting window will appear after step 4. Continue from step 5 in "Clock Setting" on page 19 before programming the timer.
- Press [Cursor ◀ / ▶] to move the cursor in the timer programming menu.

Recording

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.

Timer	Programn	ning		
Date	Start	End	СН	Speed
1.01/01	12:00	13:00	AV3	XP
2				
3	[Ove	erlap	
4		No.1 6		
5. 01/01	12:30	14:00	P02	SP
6. 01/01	13:45	21:00	P12	SEP
7				
8				

1 Press [STANDBY/ON ୰/I] so that the ⓒ icon disappears from the front panel display.

2 Press [PROG] twice.

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

- Select the desired programme using [Cursor ▲ / ▼], then press [ENTER].
- 2) Correct the timer programming using [Cursor ▲ / ▼ / ◀ / ▶].
 3) Press [ENTER] again.
- 5 Press [PROG] to exit.
- 6 Press [STANDBY/ON ୰/I] to return to the timer-standby mode.

To check the timer programming in progress Press [PROG].

Note

• If a timer recording is proceeding, that programme is highlighted in red. In such a case, you cannot select any other programmes.

To stop the timer recording in progress

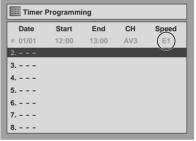
Press [STOP ■] on the front panel of the unit.

Note

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

If the timer programming did not complete correctly

The error number appears on the timer programming list.



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.
- 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.

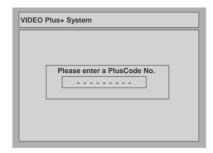
Timer recording using the VIDEO Plus+® system

You can programme the timer using the PlusCode numbers that are printed in your local TV guide magazine.

1 In stop mode, press [the VIDEO Plus+ button].

- If the Timer Programming list is full, the Timer Programming mode is activated instead of the VIDEO Plus+ programming mode.
- Press [the VIDEO Plus+ button] again in the VIDEO Plus+ programming mode to switch to the Timer Programming mode.

2 Set the PlusCode number of the programme you want to record using [the Number buttons], then press [ENTER].



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

VIDEO Plus+ System	
Once	
Daily	
M-F	
Weekly	

Once: To record a TV programme once, as you set.

Daily: To record a TV programme at the same time on the same channel everyday.

M-F: To record a TV programme at the same time on the same channel from Monday through Friday.

Weekly: To record a TV programme at the same time on the same channel every week.

4 Select a recording channel using [Cursor ▲ / ▼], then press [Cursor ▶].

Timer	Programm	ning		
Date	Start	End	СН	Speed
1. Daily	7:30	14:15	P08	LP
2				
3				
4				
5				
6				
7				
8				

- If your local channel information is programmed in the unit's memory, your local channel number appears automatically.
- If your local channel information is not programmed in the unit's memory, "P- –" may appear.
- If you select the channel number using [Cursor ▲ / ▼], it is stored in the unit's memory.
- 5 Select a recording speed using [Cursor ▲ / ▼], then press [Cursor ▶].
- **6** Press [SET UP] or [the VIDEO Plus+ button] to exit.
- 7 Press [STANDBY/ON ₼/I].

The ① icon 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 1. Continue from step 5 in "Clock Setting" before programming the timer. (See page 19.)
- If the PlusCode number is not available, "Code Error" is displayed and the number will clear when you press **[ENTER]** in step 2.
- If the PlusCode number previously set overlaps with the one you entered and the channel is different, "Overlap" is displayed but the timer programming will be cleared when you press [ENTER] in step 3.
- If you enter the same PlusCode number and the recording pattern which you have already entered, the previously set programme will be overwritten.
- If you enter the same PlusCode number but a different recording pattern, it will be saved as a new programme and added to the timer programming list.

"Code Error" is displayed if:

- A past time is entered for start and end times.
- The PlusCode number cannot be decoded.

"Overlap" is displayed if:

• There is an overlap with a timer recording setting in different channels.

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 icon will flash and timer recording will not occur. Insert a recordable disc.
- When all timer recordings are complete, the icon flashes. To play back or eject the recorded disc, press [STANDBY/ON ☉/I], and then press [PLAY ▶] or [OPEN/CLOSE ▲].
- During timer recording or timer-standby mode (icon appears on the front panel display), no operations on the unit are available. To make operations available, cancel the timer recording or timer-standby mode (icon disappears).
- To cancel the timer-standby mode, press [STANDBY/ON ☉/I].
- 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.
- 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 turn the power off.

Priority of overlapped settings

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

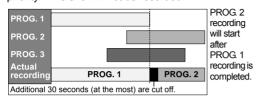
If the starting time is same:

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

PROG. 1			PROG. 2 recording
PROG. 2			will start
			after PROG. 1 recording is
Actual recording	PROG. 1	PROG. 2	completed.
Additional 3	80 seconds (at the most) are c	ut off.]

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.

PROG. 1		
PROG. 2		
Actual recording	PROG. 2	PROG. 1
Additional 3	0 seconds (at the most) are ci	ut off.

If the recording time entirely overlaps:

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

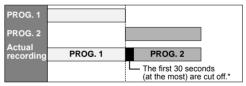
PROG. 1		
PROG. 2		
Actual recording	PROG. 2	

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.

Settings for external equipment

Connection to external equipment

Connect the external equipment using either the input jacks, AV1, AV2, AV3 (Rear) or AV4 (Front). However, for AV4 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 [SET UP].

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].

AV4 (Front)	
✔ Video In	
S-Video In	

- 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 [SET UP] to exit.

Recording from external equipment



Before recording from external equipment, see page 15 for connection instructions.

- **1** Turn the TV and the unit on, and select the input of the TV to which the unit is connected.
- 2 Press [OPEN/CLOSE ▲] to open the disc tray, then place the disc to record on.
- 3 Press [OPEN/CLOSE ▲] to close the disc tray.
- 4 Select the input terminal to which the external equipment is connected. (AV1, AV2, AV3 or AV4)

To use the input jacks on the back of the unit, select the "AV1," "AV2," or "AV3" position by pressing **[0]**, **[0]**, **[1]** or **[0]**, **[0]**, **[2]** or **[0]**, **[0]**, **[3]** on the remote control or using **[PR +/-]**. To use the input jacks on the front of this unit, select "AV4" position by pressing **[0]**, **[0]**, **[1]** on the remote control or using **[PR +/-]**.

- 5 Select a recording speed using [REC SPEED]. (See page 20.)
- 6 Press [REC ●] on the unit to start recording.
- 7 Press the PLAY button on the external recording component.
- 8 Press [STOP ■] on the unit to stop recording.

Note

• During recording, if a signal other than PAL is detected (such as NTSC), recording is paused.

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.

1 In stop mode, press [SET UP].

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

- 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

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

To cancel the disc protect:

- Select "Disc Protect ON \rightarrow 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 🔊



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.

- 1 In stop mode, press [SET UP]. "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.

Yes			
Yes No			

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.



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]** is pressed, finalising is continued.

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

5 Finalising is complete.

Hint

Recording

- 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 🔍

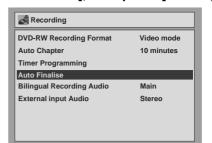


You can finalise discs automatically when the disc space runs out if you set this in the Setting menu.

- 1 In stop mode, press [SET UP].
- 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 [SET UP] to exit.

Note

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

Information on playing back DVDs

Read the following information before you play back a DVD.

Playable discs

You can play back all the discs listed on the right. 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.

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). This unit can play back DVD discs labelled with the following region codes only:



You cannot play back DVDs that are labelled for other regions. 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.

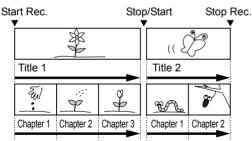
A DVD labelled for a specific region can only be played back in the unit with the same region code.

DVD-Video		VIDEO
DVD-RW (VIDEO/VR mode)		
DVD-R (VIDEO mode)		R R4.7
DVD+RW*		
DVD+R*		RW DVD+R
CD-DA (AUDIO CD)		
VCD (VIDEO CD)		VIDEO CD
CD-RW (CD-DA FORMAT, MP3, JPEG files)	ReWritable	DIGITAL AUDIO ReWritable
CD-R (CD-DA FORMAT, MP3, JPEG files)	Recordable	
There may be a disc v played back.		
is a trademark Licensing Corporation		at / Logo

Basic playback

Hint for DVD playback

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



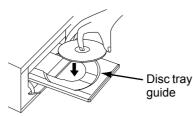
Playing back a DVD-RW / DVD-R / DVD+RW / DVD+R disc



1 Press [STANDBY/ON ♡/I] to turn on the unit.

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

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



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

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

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

Playback will start.

7 Press [STOP ■] to stop playback.

To eject the disc, press **[OPEN/CLOSE ▲]** to open the disc tray, then remove the disc. Press **[OPEN/CLOSE ▲]** 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 37 for details.
- This unit will automatically switch a compatible widescreen TV into widescreen mode when playing back the discs recorded in Video mode with this unit. To play back 4:3 recordings on a 16:9 TV, please select 4:3 mode on your TV.

Note

· Some discs may start playback automatically.

Playing back a DVD-Video / CD / Video CD



- 1 Follow steps 1 to 4 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 35 - 36 for details.

3 Press [STOP ■] to stop playback.

Playing back an MP3 /JPEG

CMP3 CIPEG

Follow steps 1 to 4 in "Playing back a DVD-RW / DVD-R / DVD+RW / DVD+R disc."

The file list will appear.

disc	name			
				
🗇 f	older name 1			
🗇 f	older name 2			
🗇 f	older name 3			
🗇 f	older name 4			
JI 1	file name 1			
11 2	file name 2			
03	file name 1			
o 4	file name 2			

To exit the menu, press [TOP MENU].

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

If a file is selected: Playback will start.

If a folder is selected: The files in the folder will appear. Press [Cursor ▲ / ▼] to select the track or folder you want, then press [ENTER].

- Press [PLAY ▶], [ENTER] or [Cursor ▶] to move to any lower folders.
- Press [Cursor 4] 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 \int 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 folder and file 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:

[MP3]

- 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

Hint

 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.

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.

1 Press [MENU/LIST].

If the feature is not available, $\boldsymbol{\heartsuit}$ 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 / \bigtriangledown / \blacklozenge / \blacklozenge] 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

BVD-V

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.

1 Press [TOP MENU].

The title menu will appear.

If the feature is not available, \bigotimes 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 / \bigtriangledown / \blacklozenge / \blacklozenge] 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

- **ITOP MENUI** will not be available for some DVDs.
- Menus vary among discs. Refer to the information accompanying the disc for details.

PBC function for Video CDs

*G*VCD

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

• 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 [SET UP].

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

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



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

5 Press [SET UP] 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



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 back on the unit.

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 [FWD ►►] or [REV ◄◄].

Each time you press **[FWD ►►]** or **[REV ◄◄]**, 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 "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: ►
x20: ►
x40: ►
x40: ►
```

Skipping TV commercials during playback



To enjoy recorded programmes without any interruptions, press [].

1 During playback, press [~].

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

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



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 [I◄◀ / ►►I] repeatedly.

Each time you press $[\blacktriangleright \bullet I]$, playback will go forward one frame (or step) at a time with the sound muted.

To go backward one frame (or step), press $[I \triangleleft]$.

Press and hold **[▶▶i]** to continue going forward. To continue going backward, press and hold **[I◄◀]**.

3 Press [PLAY ▶] to resume playback.

Note

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 [SLOW ⊕] or [SLOW ⊕]. Each time you press [SLOW ⊕] or [SLOW ⊕].

the approximate speed change as follows. (The sound will remain muted.)



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

Hint

• 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: ►•••

Note

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

Zoom



	DVD-Video
()	

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

Hint

- You can also select the zoom function by pressing [ON SCREEN]. In this case, press [ON SCREEN] first, select the (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.

Hint

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

Note

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

Marker Setup



You can assign a specific point on a disc to return later.

1 During playback, press [ON SCREEN].

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

Marker setup menu for DVD-Video mode



Marker setup menu for Audio CD mode

T 1 🕒 0:00:00	Audio CD
<u>対</u> <u>京</u> <u>京</u> <u>京</u> <u>京</u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>	

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 ▲ / ▼], 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.

- 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 [I◄◀ / ►►I] buttons

1 During playback, press [►►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 [III] repeatedly.

Using the [ON SCREEN] button

- 1 During playback, press [ON SCREEN].
- 2 Select the *icon* using
 [Cursor ◀ / ▶], then press [ENTER].
 If 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 [I◄◀ / ►►I] buttons

1 During playback, press [►►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 **[I=4]** repeatedly. The unit moves backward one track at a time.

Using the [ON SCREEN] button

- 1 During playback, press [ON SCREEN].
- 2 Select the icon using
 [Cursor ◀ / ▶], then press [ENTER].
 In for the track number is highlighted.
- 3 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 manually.

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 [ON SCREEN].
- 2 Select the icon using
 [Cursor ◀ / ▶], then press [ENTER].
 If or 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.

Hint

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

Note

- 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.

Repeat / Random / Program playback / Slide Show

Repeat playback



1 During playback, press [ON SCREEN].

The Repeat mode menu will appear.

- You can directly access this menu by pressing [REPEAT] also.
- 3 Select the desired option to repeat using [Cursor ▲ / ▼], then press [ENTER].

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

Title:

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

Chapter:

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

All:

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)

Group:

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

Hint

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

Note

- 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.
- For Video CDs with PBC function, repeat playback does not work while the PBC function is on.

Random playback 🖳



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

1 In stop mode, press [SET UP].

"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. "Playmode 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.

Note

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

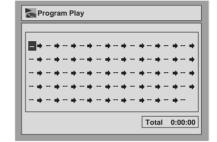
Program playback 🖳



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

1 Follow steps 1 and 2 in "Random playback".

2 Select "Program Play" using [Cursor ▲ / ▼], then press [ENTER].



- 3 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. "Playmode OFF" appears on the screen.
- You may also select the desired track using [the Number buttons] at step 3.
- For Video CDs with PBC function, the PBC setting will switch to off automatically during program playback.

Note

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

Slide Show 🔍



You can select the display time between 5 seconds and 10 seconds.

- 1 Follow steps 1 and 2 in "Random playback."
- 2 Select "Slide Show" using [Cursor ▲ / ▼], then press [ENTER].
- 3 Select the display time using [Cursor ▲ / ▼], then press [ENTER].

Note

• 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 audio soundtrack



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 [ON SCREEN].

Press **[AUDIO]** during playback, and follow from step 3.

- 2 Select the **I** icon using [Cursor **I** / **▶**], then press [ENTER].
- 3 Select a desired audio soundtrack or audio channel using [Cursor ▲ / ▼], then press [ENTER].

With a DVD-Video: Audio soundtrack will switch. Example: English \rightarrow Spanish \rightarrow 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 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 [ON SCREEN].
- 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 63.

Switching camera angles

BVD-V

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.

1 During playback, press [ON SCREEN].

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 ﷺ icon using [Cursor ◀ / ▶], then press [ENTER]. The angle will switch each time you press [ENTER].

Hint

• Even when the E 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 [ON SCREEN].
- 2 Select the MR 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 SLP or SEP, select "Type 1" or "Type 2." "Type 2" is more effective.

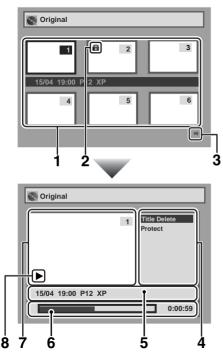
When playing back discs with a little noise, such as DVD-Videos, select "OFF."

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.



- 1 To select a title recorded on the disc for editing, move the cursor to the title and press [ENTER].
- 2 If the title is protected, the Protect icon will appear.
- It is not possible to protect a title on the Playlist.
- 3 Arrow icons mean the title list includes a next or previous page. Press [Cursor ◀ / ▶] in the direction of the icon you wish to follow.
- 4 Available title editing menu items vary depending on the disc and format types.
- 5 You can edit the title and details as you wish.
- 6 Time status bar of the recording.
- After editing, playback starts from this point.
 7 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 46.)
- Setting or clearing chapter markers (See page 47.)

Note

- After a disc is finalised, editing the disc or recording on the disc is not possible (except DVD-RW discs in VR mode).
- 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 or DVD-RW (in Video mode) discs, you cannot select the title list because it cannot be edited once finalised.

Note

- It is not possible to retrieve deleted titles.
- 1 In stop mode, press [SET UP]. "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].

🕙 Disc	
Title List	
Format	
Finalise	

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



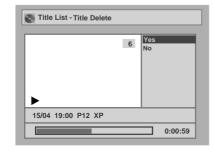
5 Select "Title Delete" using [Cursor ▲ / ▼], then press [ENTER].



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.

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

The title is deleted.



7 Press [SET UP].

Writing on the disc starts.

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

Editing titles 🔍

BVD-RW BVD-R

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

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.

3 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 the title.

5 Press [SET UP].

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.

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

• 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

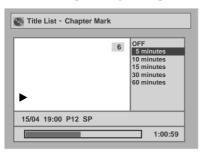
You can add chapter markers to a title. After a title is marked with chapters, you can use the chapter search feature.

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

1 In stop mode, press [SET UP].

"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].
- 4 Select the desired title using [Cursor ▲ / ▼ / ◀ / ▶], then press [ENTER].
- 5 Select "Chapter Mark" using [Cursor ▲ / ▼], then press [ENTER].
- 6 Select the desired interval using [Cursor ▲ / ▼], then press [ENTER].



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

S Title List - Chapter M	ark - 5 m	inute	5
	6	Yes No	_
•			
15/04 19:00 P12 SP			
			1:00:59

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

8 Press [SET UP].

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

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

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 49.)
- Releasing titles from protecting (See page 49.)

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 50.)
- Deleting parts of titles (Scene Delete) (See page 50.)
- Editing titles (See page 51.)
- Setting or clearing chapter markers (See page 51.)
- Setting pictures as thumbnails (See page 52.)
- Dividing a title (See page 52.)
- Combining titles (See page 53.)
- Adding titles to a Playlist (See page 53.)
- Deleting a Playlist (See page 53.)

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

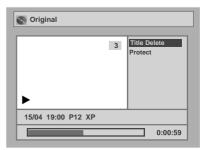
• It is not possible to retrieve deleted titles.

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

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

S Disc	
Playlist	
Original	
Format	
Finalise	
Disc Protect OFF⇒ON	

- 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 [SET UP].

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.

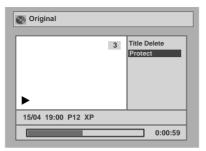
Original Protecting titles 🔍

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

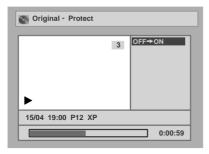
1 In stop mode, press [SET UP]. "Easy Setting Menu" or "Advanced Setting Menu"

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

- 2 Select "Disc" using [Cursor ▲ / ▼], then press [ENTER].
- 3 Select "Original" using [Cursor ▲ / ▼], 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 [SET UP].

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 31.

Hint

• 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.

1 Follow steps 1 to 4 in "Original Protecting titles."

2 Press [ENTER].

S Original - Protect	
	3 ON→OFF
15/04 19:00 P12 XP	
	0:00:59

3 Press [ENTER] again.

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

4 Press [SET UP].

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

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.

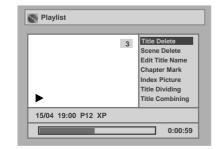
Playlist Deleting titles 🔍

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.

1 In stop mode, press [SET UP].

"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 [SET UP].

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

Playlist Deleting parts of titles (Scene Delete)

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.

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

🔊 Playlist- Scene D	elete
	3 Start End Preview Delete

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

:	3 Start End Preview Delete

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 preview.

- 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 [SET UP].

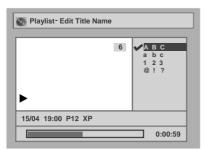
Writing on the disc starts. It may take a while to write the data on a disc.

- 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.

Playlist Editing titles 🔍

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

- Follow steps 1 to 4 in "Playlist Deleting titles."
- 2 Select "Edit Title Name" using [Cursor ▲ / ▼], then press [ENTER].
- **3** To enter the title name, refer to "Guide to editing title names" on page 46.



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 [SET UP].

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.

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

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

		3	Add
		3	Delete
	Chapter 2/2		
	Chapter 2/2		
45/04	19:00 P12 XP		

You cannot delete the first chapter of a title.

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

S Playlist - Chapter Mark - Add	
3 Chapter 2/2	Yes No
15/04 19:00 P12 XP	
	0:00:59

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 [SET UP].

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

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.

- 1 Follow steps 1 to 4 in "Playlist Deleting titles."
- 2 Use [I◄◀ / ►►I], [REV ◄◀], [FWD ►►], [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 [SET UP].

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.

- Follow steps 1 to 4 in "Playlist Deleting titles."
- 2 Use [I◄◀ / ►►I], [REV ◄◀], [FWD ►►], [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.

Yes No	
	 0:0

5 Press [SET UP].

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

- 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.

- 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 [SET UP].

Writing on the disc starts.

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

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 🔍

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).

- 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 [SET UP].

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 50.
- 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.

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

Playlist		
1	2	3
Add New Title Delete Playlist		

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

The Playlist is deleted.

4 Press [SET UP].

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

- 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.

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 ite	ms	Default	Function
Language setting	Disc Menu Language		English	Sets the disc menu language.
➡ page 55	Audio Language		Original	Sets the audio language.
	Subtitle Language		OFF	Sets the subtitle language.
Display setting page 56	FL Dimmer		Auto	Sets the front display brightness.
	Screen Saver		10 minutes	Sets the idling time before the screen saver starts.
Audio setting pages 56-57	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	ON	Sets whether DTS signal is output or not.
	Dynamic Range Control	'	ON	Compresses the sound volume range.
	Fast Forward with Audio		ON	Outputs sound during fast forward playback.
Parental setting pages 58-59	Parental Lock		All 	Sets the DVD parental control level.
	Change password			Sets and changes the password.
Output setting page 59	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.

Language setting

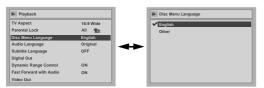
- **1** In stop mode, press [SET UP].
- 2 Select "Advanced Setting Menu" using [Cursor ▲ / ▼], then press [ENTER].

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 \blacktriangle / \triangledown], 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 63.

Subtitle Language		
Code input a 7 a m		

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

5 Press [SET UP] 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 4] to erase numbers entered incorrectly.

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

Display setting

- 1 In stop mode, press [SET UP].
- 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: Auto)

Set the front panel display brightness.



Select a setting using [Cursor \blacktriangle / \triangledown], 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 [SET UP] to exit.

Audio setting

Choose the appropriate Audio settings for your audio equipment.

This will only affect DVDs playback.

- 1 In stop mode, press [SET UP].
- 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 \blacktriangle / \triangledown], then press [ENTER].

Proceed with either of the following steps.



🖌 48kHz		
96kHz		

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

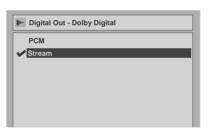
Your setting is activated.

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

Note

- When playing back a disc with copyright protection:
- Even if you select "96kHz," the sound is down sampled to 48 kHz.

Dolby Digital conversion (Default: Stream)



Select a setting using [Cursor \blacktriangle / \triangledown], then press [ENTER].

Your setting is activated.

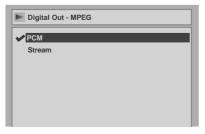
- PCM: Converts the Dolby Digital into PCM (2 channel). If your amplifier / decoder is NOT compatible with Dolby Digital, set to "PCM".
- Stream: Outputs Dolby Digital signals. If your amplifier / decoder is compatible with Dolby Digital, set to "Stream".

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: ON)

►	Digital Out - DTS	
~	ON	
	ON OFF	

Select a setting using [Cursor ▲ / ▼], 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: ON)

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

Playback	
TV Aspect	16:9 Wide
Parental Lock	All 🖬
Disc Menu Language	English
Audio Language Subtitle Language Digital Out	Original OFF
Dynamic Range Control	ON
Fast Forward with Audio	ON

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

5 Press [SET UP] to exit.

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 material.

1 In stop mode, press [SET UP].

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].

Playback	
TV Aspect	16:9 Wide
Parental Lock	All 🗈
Disc Menu Language	English
Audio Language	Original
Subtitle Language	OFF
Digital Out	
Dynamic Range Control	ON
Fast Forward with Audio	ON
Video Out	

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 \blacktriangle / \triangledown], then press [ENTER].

Proceed with either of the following steps.

Parental Lock		
All		
8		
7		
6		
5		
4		
3		
2		
1		

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 \blacktriangle / \bigtriangledown], then enter a new password using [the Number buttons], then press [ENTER].

Your setting is activated.

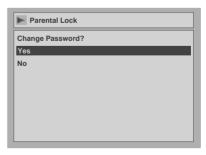
If you select "No", proceed to Step 5.

A password is already set

Enter the current password using [the Number buttons].

Passwo	ord Input	
* *	* *	

Change the password.



Select "Yes" using [Cursor \blacktriangle / \triangledown], 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 [SET UP] to exit.



- 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."

Changing Video Out system

Setting TV system

- 1 In stop mode, press [SET UP].
- 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].

Video Out - TV Syst	em
✓ PAL Auto	

- 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.

7 Press [SET UP] to exit.

Note

- 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.

Changing the Setting menu

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.

operatio	лі. 	
	Symptom	Remedy
Power	The power does not turn on.	 Check the mains cable is connected securely. Check building circuit the breaker (in case of power failure).
Picture	There is no picture.	 Check signal cables are connected securely. Check if a connecting cable is damaged. If the setting menu display appears, press [SET UP] or [RETURN] to turn off the display. Check connections to your TV. (See page 15.) Switch the input selector on your TV (to "AV1," for example) until a picture appears on the screen.
	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.
	TV programme picture does not fill the screen.	 Set channels with "Auto Tuning" from the screen menu. (See page 17.) Select the channel of a TV program using [PR +/-].
	TV programme pictures are distorted.	 Adjust the direction of the TV antenna. Adjust the picture (see the TV instruction manual). Place the antenna and the TV farther apart. Separate any bunched antenna cables and the TV.
	TV channel cannot be changed.	 Switch the TV input. Check if the antenna cable is connected correctly. (See page 15.)
	The playback picture is distorted.	 Do not bring equipment that may cause electrical interference, such as a cellular phone, near the unit.
	The playback picture is distorted when playing back 4:3 recordings.	Select 4:3 mode on your TV.
	The playback picture or TV programme from equipment connected through the unit is distorted.	 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.
Sound	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. If the audio signal is not output from the DIGITAL AUDIO OUTPUT (COAXIAL jack, check the Audio setting. (See page 56.)
	Sound is noisy.	The disc is dirty or flawed.
Remote	e control 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.

Symptom	Remedy
k The unit does not play back the disc.	 No disc is inserted. A blank disc is inserted. The disc is upside down. Insert the disc with the labelled side facing up. The disc is not correctly inserted. The unit cannot play back certain discs (such as a CD-ROM). (See page 33.) The region codes on the DVD-Video and the unit are not matched. (See page 33.) 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.) The unit cannot play back the disc if it was recorded on another recorder and not finalised. (See page 31.)
Playback image freezes for a moment.	 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.
The unit does not play back the disc from the beginning.	 Resume playback is activated. (See page 37.) Press [STOP] twice. You have inserted a disc whose title menu or DVD menu automatically appears on the TV screen when it is first inserted.
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.	 Depending on the disc, you may not be able to perform some of those operations. See the instruction manual supplied with the disc.
The language for the sound track cannot be changed.	 Multilingual tracks are not recorded on the DVD-Video, DVD-R, or DVD-RW being played back. The DVD-Video prohibits the changing of the language for the sound track. Try changing the language using the DVD-Video menu.
The subtitle language cannot be changed or turned off.	 Multilingual subtitles are not recorded on the DVD-Video. The DVD-Video prohibits changing the subtitles. Try changing the subtitles using the DVD-Video menu.
Angles cannot be changed.	 Multi-angles are not recorded on the DVD-Video being played back. 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. The DVD-Video prohibits changing angles. Try changing the angle using the DVD-Video menu.
ng / Timer recording / Editing The channel cannot be changed from the channel you are recording.	Set the TV input to "TV."
Recording does not start immediately after pressing [REC ●].	 An unused DVD-R or DVD-RW was inserted. It takes a while for the unit to automatically format a DVD-RW.
Nothing was recorded even though you set the timer setting correctly.	 There was a power failure during recording. The unit's internal clock stopped due to a power failure that lasted for more than 30 seconds. Reset the clock. (See page 19.) Unplug the mains cable from the AC outlet and plug it in again. The programme contains copy protection signals that restrict copying. The timer setting overlapped with another setting that was set later or has priority.
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.
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 29.) There was not enough disc space.
Timer recording is not possible.	• Make sure ⓒ icon appears on the front panel display of this unit. If not, press [STANDBY/ON ♡/I].
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.
The disc tray does not open when you press [OPEN/CLOSE ▲] .	 It may take a few seconds for the disc tray to open after you have recorded or edited a disc. This is because the unit is sending data to the disc.
"Repairing" appears on the display.	 If a power failure occurs or the mains cable is unplugged during recording, finalising, formatting or editing (even after "Wait for a 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.
	k The unit does not play back the disc. Playback image freezes for a moment. The unit does not play back the disc from the beginning. The unit starts playing back the disc automatically. Some functions such as Stop, Search, or Slow-motion Playback cannot be performed. The language for the sound track cannot be changed. The subtitle language cannot be changed or turned off. Angles cannot be changed. ng / Timer recording / Editing The channel cannot be changed from the channel you are recording. Recording does not start immediately after pressing [REC ●]. Nothing was recorded even though you set the timer setting correctly. Recording does not stop immediately after you press [STOP ■] . Timer recording is not complete or did not start from the beginning. Timer recording is not possible. The unit does not operate correctly. The disc tray does not stop when you press [OPEN/CLOSE ▲] .

*If the above remedies do not solve the problem, please call the service centre for help.

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 33.) Insert the disc with the labelled 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 58.)		
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. This unit cannot record an NTSC signal.		
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 22.)		
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. 			
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 31.)		
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. Delete unnecessary titles from an original list. (See page 48.) 		
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 pages 45 and 48.)		
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 chapter markers in the original list. To delete unnecessary chapter markers, use other DVD recorders. Delete unnecessary titles from an original list. (See page 48.) 		
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 pages 45 and 48.)		
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 31.)		

*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	Language	Code	Language	Code	Language	Code
Abkhazian	4748	French	5264	Lithuanian	5866	Sindhi	6550
Afar	4747	Frisian	5271	Macedonian	5957	Singhalese	6555
Afrikaans	4752	Galician	5358	Malagasy	5953	Siswat	6565
Albanian	6563	Georgian	5747	Malay	5965	Slovak	6557
Amharic	4759	German	5051	Malayalam	5958	Slovenian	6558
Arabic	4764	Greek	5158	Maltese	5966	Somali	6561
Armenian	5471	Greenlandic	5758	Maori	5955	Spanish	5165
Assamese	4765	Guarani	5360	Marathi	5964	Sundanese	6567
Aymara	4771	Gujarati	5367	Moldavian	5961	Swahili	6569
Azerbaijani	4772	Hausa	5447	Mongolian	5960	Swedish	6568
Bashkir	4847	Hebrew	5569	Nauru	6047	Tagalog	6658
Basque	5167	Hindi	5455	Nepali	6051	Tajik	6653
Bengali;Bangla	4860	Hungarian	5467	Norwegian	6061	Tamil	6647
Bhutani	5072	Icelandic	5565	Occitan	6149	Tatar	6666
Bihari	4854	Indonesian	5560	Oriya	6164	Telugu	6651
Bislama	4855	Interlingua	5547	(Afan) Oromo	6159	Thai	6654
Breton	4864	Interlingue	5551	Panjabi	6247	Tibetan	4861
Bulgarian	4853	Inupiak	5557	Pashto; Pushto	6265	Tigrinya	6655
Burmese	5971	Irish	5347	Persian	5247	Tonga	6661
Byelorussian	4851	Italian	5566	Polish	6258	Tsonga	6665
Cambodian	5759	Japanese	5647	Portuguese	6266	Turkish	6664
Catalan	4947	Javanese	5669	Quechua	6367	Turkmen	6657
Chinese	7254	Kannada	5760	Rhaeto-Romance	6459	Twi	6669
Corsican	4961	Kashmiri	5765	Romanian	6461	Ukrainian	6757
Croatian	5464	Kazakh	5757	Russian	6467	Urdu	6764
Czech	4965	Kinyarwanda	6469	Samoan	6559	Uzbek	6772
Danish	5047	Kirghiz	5771	Sangho	6553	Vietnamese	6855
Dutch	6058	Kirundi	6460	Sanskrit	6547	Volapuk	6861
English	5160	Korean	5761	Scots Gaelic	5350	Welsh	4971
Esperanto	5161	Kurdish	5767	Serbian	6564	Wolof	6961
Estonian	5166	Laothian	5861	Serbo-Croatian	6554	Xhosa	7054
Faroese	5261	Latin	5847	Sesotho	6566	Yiddish	5655
Fiji	5256	Latvian; Lettish	5868	Setswana	6660	Yoruba	7161
Finnish	5255	Lingala	5860	Shona	6560	Zulu	7267

Glossary

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 [~] is pressed, the start point will be set forward 30 seconds and playback resume automatically. (You can press [~] 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-todigital 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.

РСМ

(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	
Power requirements	220–240 V \sim ± 10%, 50 Hz ± 0.5%	
Power consumption	25 W (standby: 5.0 W)	
Weight	2.4 kg	
Dimensions (width x height x depth)	435 x 66 x 244 mm	
Operating temperature	5°C to 40°C	
Operating humidity	Less than 80% (no condensation)	
TV format	PAL - I	
Recording		
Recording format	at Video Recording format (DVD-RW only), Video format (DVD-RW, DVD-R)	
Recordable discs	DVD-ReWritable, DVD-Recordable	
Video recording format Sampling frequency Compression format	13.5 MHz MPEG	
Audio recording format Sampling frequency Compression format	48 kHz Dolby Digital	

Tuner

Receivable channels IRA-E69

Note

CE Marking:

• The specifications and design of this product are subject to change without notice.

Declaration of Conformity

This product complies with the requirement of the directivesEMC-Directive:89 / 336 / EECLow Voltage Directive:73 / 23 / EEC

73 / 23 / EEC 93 / 68 / EEC

We declare that the following product:

DVD Video Recorder, Model DR-M70SEK

is 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 Œ



DR-M70SEK

JVC

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