

Portable DVD-ROM Drive

Operating Instructions

DVD-ROM **Discman**



PBD-D50

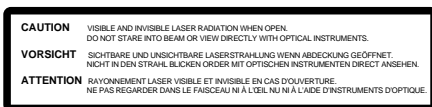
WARNING

To prevent fire or shock hazard, do not expose the player to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

The socket outlet shall be installed near the equipment and shall be easily accessible.

The nameplate is located on the bottom.



This label is located on the bottom.

For customers in Germany

Directive: EMC Directive 89/336/EEC,
92/31/EEC
Low Voltage Directive 73/23/EEC,
93/68/EEC

This equipment complies with the EMC regulations when used under the following circumstances:

- Residential area
- Business district
- Light-industry district

(This equipment complies with the EMC standard regulations EN 55022 Class B.)

The supplied interference Audio/Video cable must be used with the equipment in order to comply with the limits for a digital device pursuant to EN 55022.

Welcome!

Thank you for purchasing the Sony Portable DVD-ROM Drive. Before operating the unit, please read this manual thoroughly and retain it for future reference.

The latest information about this unit is in the "Readme.txt" on the supplied floppy disk.

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Overview

■ Using as the portable DVD-ROM drive

You can use this unit as a DVD-ROM drive using with the supplied SCSI PC card.

You can use this unit without the AC power adapter while using the optional battery pack.

- Complete the set up using “Installing the software” (pages 13 to 19).
- For basic operations, see “Operating a DVD-ROM drive” (pages 20 to 24).

System requirements

You can connect this unit using the PC connecting kit to a PC as follows:

- IBM PC/AT compatible personal computer
- CPU: i486SX 33MHz or higher (Pentium processor or higher recommended)
- PC card slot: Type II × 1 slot
- Main memory: more than 16MB (32MB or higher recommended)
- Data capacity space on the hard disc: more than 10 MB
- A 3.5 inch or higher density floppy disk drive
- OS: Microsoft Windows 95¹⁾, Windows 95 (OSR 2)²⁾

¹⁾ Using a lower version of Windows 95 other than OSR2 limits the capabilities of use as a DVD-ROM drive. For the details, see page 19.

²⁾ This unit is not compatible with Windows 3.1 or Windows NT or a Macintosh system.

When using a desk top type PC, a SCSI board is required. (The Adeptec AHA-2940AU SCSI board is recommended. Other SCSI boards compatibility is not guaranteed.)





Please contact to the dealer or sales agency of the SCSI board.

■ Using as the portable DVD player

You can play a DVD VIDEO, VIDEO CD, or audio CD. In addition, you can enjoy powerful sound when connected to a digital component with a built-in Dolby Digital decoder when playing DVD VIDEOS with sound recorded in Dolby Digital (AC-3) format.

When using the optional battery pack, you can play back without the AC power adapter.

- Complete the set up using “Getting started” (pages 25 to 28).
- For basic operations, see “Playing a DVD VIDEO” (pages 29 to 36) and “Playing a CD/VIDEO CD” (pages 37 to 44).
- For additional features, see pages 45 to 69.
- The icons shown below are used in this manual:

Icon	Meaning
	Indicates that you can use only the remote to do the task.
	Indicates the functions for DVD VIDEOS.
	Indicates the functions for VIDEO CDs.
	Indicates the functions for AUDIO CDs.

Unpacking

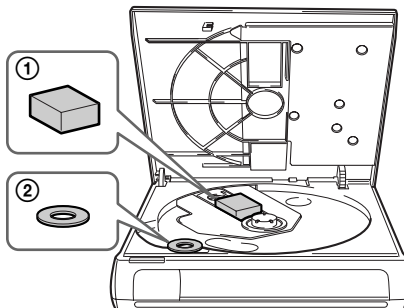
Check to make sure you have received the following items.

- Audio/video cable (stereo mini plug × 1 ↔ phono plug × 3) (1)
- AC-PBD1 AC power adapter (1)
- RM-PBD1 remote commander (remote) (1)
- VMC-91 Scart adapter (1)
- IC-PBD1 SCSI PC card (with cable) (1)
- Installing disc (3.5 inch floppy disk) (1)

CAUTION

Before using this unit, be sure to remove the packing materials (① and ②) from inside the front cover.

- ① Black, square shaped cushion near the lens.
- ② Black ring near the OPEN button.



If you turn on the unit without removing these materials, it may cause a malfunction.

This unit can play the following discs

	This unit only	With PC ¹⁾
DVD-ROMs	×	○
CD-ROMs	×	○
CD-Rs	○ ²⁾	○
PHOTO CDs	×	○
CD EXTRAs (CD +)	○ ³⁾	○
DVD VIDEOS	○	×
VIDEO CDs	○	○
AUDIO CDs (CD-DA)	○	○

¹⁾ Depending on the disc, optional software or an MPEG playing card may be required for playback.

²⁾ Depending on the CD-R, playback may not be possible.

³⁾ You can play back the audio part only.


You cannot play the discs below:


- DVD-RAM
- DVD-R
- DVD+RW
- CD-RW

You can play a disc recorded in PAL or NTSC colour system. See page 28.

Notes on DVD VIDEO discs

Region code of DVD VIDEOS you can play

Region code indications such as  are labelled on some DVD VIDEOS to indicate which type of unit can play the discs.

Unless “2” is included in the indications or  is labelled on the DVD VIDEOS, you cannot play the discs on this unit. If you try to play these DVD VIDEOS, the message “PLAYING THIS DISC PROHIBITED BY AREA LIMITS” will appear on the TV screen.

Depending on the DVD VIDEO, no region code indications may be provided, even though playing the DVD VIDEO is prohibited by the area limits.

Note on playback operations of DVD VIDEOS and VIDEO CDs




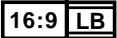

Some playback operations of DVD VIDEOS and VIDEO CDs may be intentionally fixed by software producers. Since this unit plays DVD VIDEOS and VIDEO CDs according to the disc contents the software producers designed, some playback features may not be available. Also refer to the instructions supplied with the DVD VIDEOS or VIDEO CDs.

Logo marks of DVD VIDEOS

Logo marks on DVD VIDEO discs or cases are shown as below. These marks show available contents or functions.

Some DVD VIDEOS do not have these marks even though you may be able to use these functions.

For more details of the marks, refer to the instruction of the DVD VIDEO disc.

Logo	Meaning
	The number of audio tracks
	The number of sub-titles
	The number of angles
	The picture aspect ratio
	Region code

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

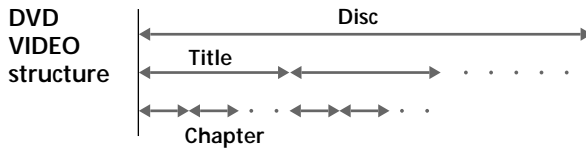
Notes on VIDEO CDs with PBC (Playback Control) functions

This unit conforms to Ver. 1.1 and Ver. 2.0 of VIDEO CD standards. You can enjoy two kinds of playback according to the disc type.

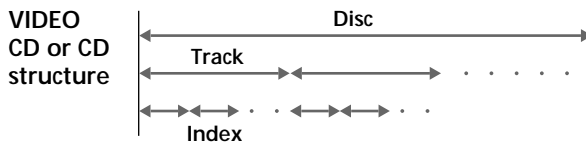
Disc type	You can
VIDEO CDs without PBC functions (Ver. 1.1 discs)	Enjoy video playback (moving pictures) as well as music.
VIDEO CDs with PBC functions (Ver. 2.0 discs)	Play interactive software using menu screens displayed on the TV screen (PBC Playback), in addition to the video playback functions of Ver 1.1 discs. Moreover, you can play high-resolution still pictures, if they are included on the disc.

Terms for discs

- **Title**
The longest sections of a picture or a music piece on a DVD VIDEO; a movie, etc. for a picture piece on a video software or an album, etc. for a music piece on an audio software. Each title is assigned a title number enabling you to locate the title you want.
- **Chapter**
Sections of a picture or a music piece that are smaller than titles. A title is composed of several chapters. Each chapter is assigned a chapter number enabling you to locate the chapter you want. Depending on the disc, no chapters may be recorded.



- **Track**
Sections of a picture or a music piece on a VIDEO CD or a CD. Each track is assigned a track number enabling you to locate the track you want.
- **Index**
A number that divides a track into some sections to easily locate the point you want on a VIDEO CD or a CD. Depending on the disc, no index may be recorded.



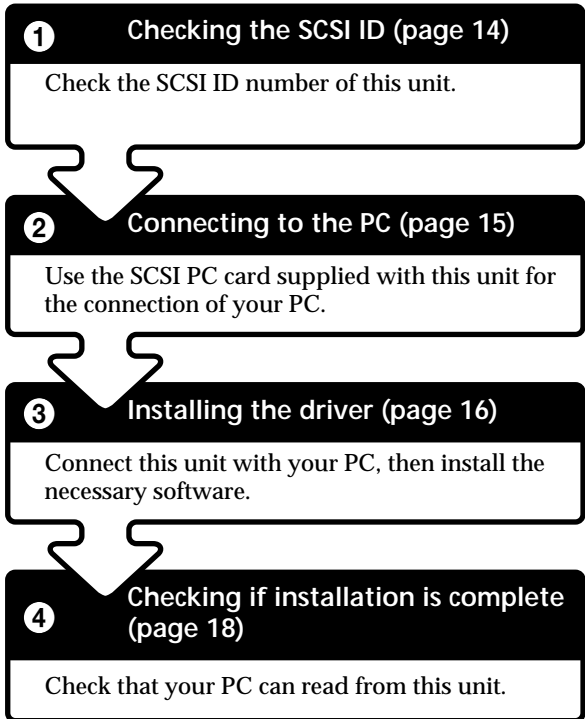
- **Scene**
On a VIDEO CD with PBC functions, the menu screens, moving pictures, and still pictures are divided into sections called "scenes." Each scene is assigned a scene number enabling you to locate the scene you want.

Installing the software

You can use this unit as a DVD-ROM drive with SCSI PC card. You can play back not only a DVD-ROM, but also a CD-ROM and a CD-R.

When you use this unit as a DVD-ROM drive, the buttons (other than the POWER button and the OPEN button on the unit) do not work on either the unit or the remote.

Follow the instructions below to use this unit with your PC.



To set the SCSI terminator

It is not necessary to set the SCSI terminator because the SCSI terminator of this unit is always "ON."

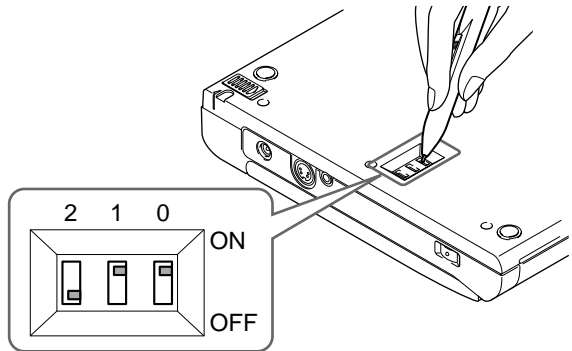
① Checking the SCSI ID

Before connecting to your PC, it is necessary to set the SCSI ID using the DIP switch on the rear panel of the unit to prevent an overlap with the other units connected to your PC.

Change the default setting using a pointed object such as the tip of a ballpoint pen.

If your PC is connected to one or more other units using SCSI ID numbers, you cannot use the same SCSI ID number for more than one unit.

The default number of the SCSI ID of this unit is "3."



SCSI ID	Switch number		
	2	1	0
0	OFF	OFF	OFF
1	OFF	OFF	ON
2	OFF	ON	OFF
3	OFF	ON	ON
4	ON	OFF	OFF
5	ON	OFF	ON
6	ON	ON	OFF
7 ¹⁾	ON	ON	ON

¹⁾ The default number of the SCSI ID of the PC is usually "7." Therefore you need to use "0" to "6" to set the SCSI ID of this unit.

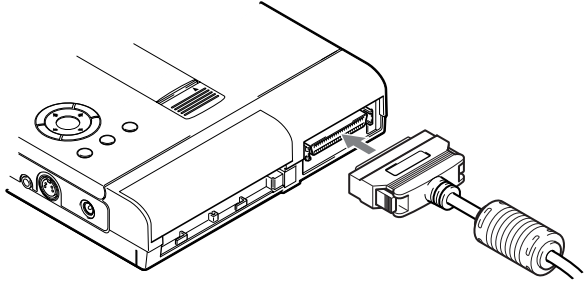
Note

Do not pull on the plug of the interface firmly. It may cause a malfunction.

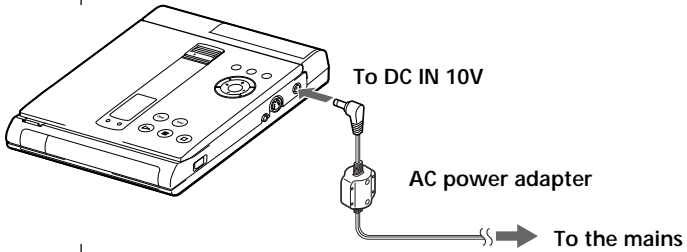
② Connecting to the PC

Before installing, follow the steps below to connect the SCSI PC card (supplied).

- 1** Insert the plug of the SCSI PC card into the SCSI connector.



- 2** Connect the AC power adapter to the unit and the wall outlet.

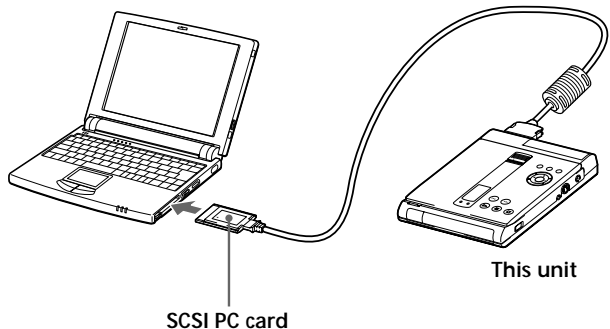


③ Installing the driver

Install the SCSI Miniport Driver and the DVD Driver after connecting this unit with your PC. There are two ways of installing the SCSI Miniport Driver; the standard installation and the manual installation. The following steps explain the standard installation. For more details on the manual installation, refer to the "Readme.txt" file in the supplied floppy disk.

Installing the SCSI Miniport Driver

- 1** Before inserting the SCSI PC card into your PC, press POWER on this unit to turn the power on. Remove the disc, if inserted into the drive.
- 2** Turn on the power of your PC.
- 3** After checking that the SCSI PC card and the unit are connected correctly, then insert the SCSI PC card into the PC card slot of your PC.



After the "New Hardware Found" window appears, the driver is installed automatically. Go to "Installing the DVD driver" (page 17).

If the "Insert a disk" window appears after "New Hardware Found" window appears

- 1** Insert the supplied install disk into the floppy disk drive of your PC, then click "OK."
- 2** Type "A:\WIN95\WIN95_AT" in "Copy from:," then click "OK."
- 3** Follow the instructions on the screen to continue installation.
- 4** When installation finishes, remove the install disk, then restart your PC.

Note

Make sure to restart your PC after installing. If not, this unit may not work as the DVD-ROM drive.

Note

Make sure to restart your PC after installing. If not, this unit may not work as the DVD-ROM drive.

If the “New Hardware” does not appear

The PC card device driver on your PC does not work or the PC card device is not set to use the 32 bit support.

- 1 Double click the “PC card (PCMCIA)” icon on the Control Panel.
“PC card (PCMCIA) wizard” appears.
- 2 Follow the instructions on the screen.
- 3 When it finishes, restart your PC, then follow the instructions of “Installing the SCSI Miniport Driver.”

Installing the DVD driver

- 1 Click “Start,” then set the pointer to “Settings” and click “Control Panel.”
- 2 Double click “Add/Remove Program Properties,” then click “Setup.”
The “Install Program From Floppy Disk or CD-ROM” window appears.
- 3 Insert the supplied install disk into the floppy disk drive of your PC, then click “Next.”
- 4 Enter “A:\DVD\Setup.exe” on “Command line for installation program:,” then click “Finish.”
- 5 Follow the instructions on the screen to continue installation.
- 6 When installation finishes, remove the install disk, then restart your PC.

Reinstalling the ASPI manager


For smooth operation when using this unit with other SCSI units are also connected, reinstalling the ASPI manager is highly recommended.

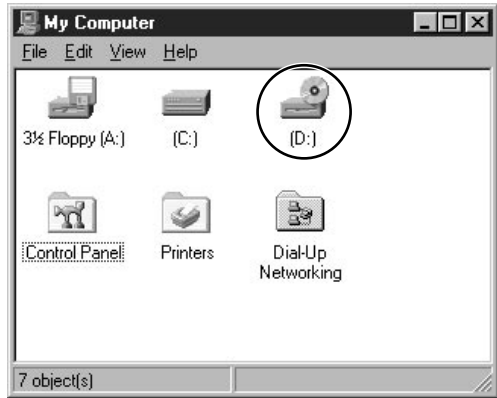
- 1 Follow Steps 1 to 3 in “Installing the DVD driver.”
- 2 Enter “A:\WIN95\Setup32.exe” on “Command line for installation program:,” then click “Finish.”
- 3 Follow the instructions on the screen to continue installation.
- 4 When installation is complete, remove the install disk, then restart your PC.
Go to “④Checking if installation is complete.”

④ Checking if installation is complete

Double-click the “My Computer” icon.

When the icon shown below appears, you can use this unit.

When using a CD-ROM drive, more than one  icon appears.



If the icon shown above does not appear, see “Troubleshooting.”

Note




Make sure to restart your PC after installing. If not, this unit may not work as the DVD-ROM drive.

Using with MS-DOS

The DOS prompt of Windows 95 can read this unit, but you cannot use this unit with MS-DOS as the DVD-ROM drive. (However, you can use MS-DOS for the CD-ROM drive.)

When using a unit with MS-DOS or reinstalling Windows 95 from this unit, you need to install the driver separately. To install the CD-ROM drive software, PCMCIA Release2.1 or higher is required.

Make sure your PC is installed with either Card Service or Socket Service before installing the driver into MS-DOS. Refer to the instructions of your PC for more details.

- 1** Before inserting the SCSI PC card into your PC, press POWER on this unit to turn the power on.
Remove the disc, if inserted into the drive.
- 2** After checking that the SCSI PC card is connected to this unit correctly, insert the SCSI PC card into the PC card slot of your PC.
- 3** Insert the supplied install disk into the floppy disk drive of your PC.
- 4** Enter keys as below on the DOS command line to change the DOS directory to the floppy drive.
a: 
- 5** Enter keys as below on the DOS command line.
cd dos 
dosinst 
- 6** Follow the instructions on the screen to continue installation.
- 7** When installation finishes, restart your PC.

When using the PC installed with IBM Card Service or Socket Service

Refer to "Readme.txt" of the supplied floppy disk.

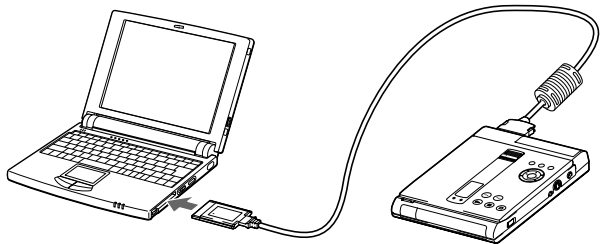
Operating a DVD-ROM drive

Notes

- Make sure to turn on this unit before connecting to your PC. If not, Windows 95 cannot read the connection with this unit.
- When using a game or some CD-ROM or DVD-ROM software with sound, a sound system is necessary on your PC.
- Depending on the CD-ROM and DVD-ROM, you can listen to the sound or music through the headphones jack on this unit.
- Do not turn off this unit while your PC is scanning the unit. If you turn off the unit accidentally, the PC may not operate. Restart the PC.
- When this unit is idle for more than 5 minutes when connected to a PC, the disc will stop rotating due to the power saving function.

Make sure, following the operations below, to connect with other equipment and to turn the power on. If you turn the power on in the wrong order, you can not use the DVD-ROM drive.

- 1** Turn on this unit.
- 2** After checking that the SCSI PC card is connected to this unit correctly, insert the SCSI PC card into the PC card slot of your PC.



- 3** Turn on your PC.
If your PC has already been turned on, you don't have to restart.

Note

If the disc is not inserted correctly, it may cause a malfunction.

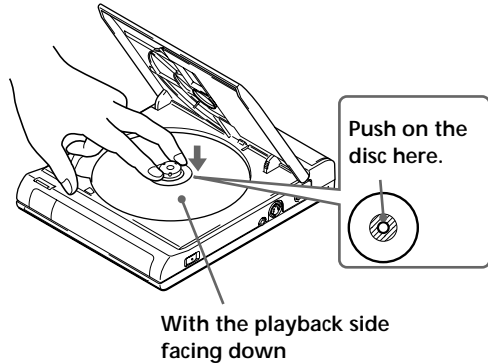
Inserting the disc

1 Press OPEN to open the disc cover.

2 Insert a disc.

When inserting a disc, please take note of the following.

- Insert the disc in a horizontal position.
- Push down gently with two fingers.
- Make sure the disc clicks into the position.



3 Close the disc cover.

Now your PC is ready to read data on the DVD-ROM. When you start reading data on the DVD-ROM, the BUSY indicator on the unit lights up orange.

Notes

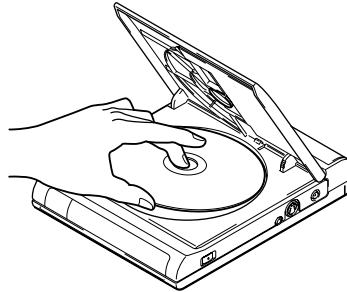
- Make sure the disc has completely stopped rotating before removing the disc.
- Do not open the disc cover using the OPEN button while the BUSY indicator is lit. If you do, your PC may not work correctly. In this case, reset and restart your PC.
- When you remove the disc, close the application software first.
- If the OPEN button does not work, slide the MANUAL LID RELEASE switch in the direction of the arrow to open the disc cover. Then restart this unit and your PC.

Removing the disc

Do not turn the power off while removing the disc.

- 1** Press OPEN to open the disc cover.
- 2** Remove the disc.

To remove the disc, gently hold the centre of the turntable down with your finger and pull up from the edge of the disc.



To access to the area over 4 GB

The data capacity of a single-layer and single-sided DVD disc is up to 4.7 GB, a dual-layer and double-sided DVD disc has up to 8.5 GB.

After installing the driver using the supplied install disk, Windows 95 can read the DVD-ROM disc. However, depending on the version of Windows 95, any files containing over 4 GB may not be able to be read due to the limitation of the OS file system.

To check the version of your Windows 95, using the mouse button on the right, click the "My Computer" icon, then click "Properties" on the Shortcut menu.

If the following version number of Windows 95 appears;

"4.00.950" or "4.00.950a"

the file contained over 4 GB can not be read. That means the maximum data capacity of a single-layer and single-sided DVD-ROM disc or dual-layer and double-sided DVD-ROM disc may not be able to be read and operating the programme may cause a malfunction.

If the following version number of Windows 95 appears;

"4.00.950 B"

you can access all of the DVD disc. The display shown above called "OSR2 (OEM Service Release 2)," is a version of Windows 95 pre-installed.

The data capacity of the DVD disc displayed on the explorer may not be the exact number. This is caused by the limitation of the explorer function and this is not a malfunction even if a smaller number of the data capacity of the DVD disc than the exact number is displayed.



The version number of Windows 95

Note

If you disconnect the PC card while the PC is working, an accidental malfunction may occur.

When you are finished using this unit as the DVD-ROM drive

- 1** Exit and close the application software of the DVD-ROM drive.
- 2** Click the PC card icon on the right of the taskbar.



PC card icon

The Short Cut menu appears.

- 3** Click “Adaptec APA-1425/50/60 PCMCIA SCSI Host Adapter.”
The “You may safely remove this device” message appears.
- 4** Click “OK.”

Now you can remove the SCSI PC card from your PC.

To stop using this unit while connected to your PC by the SCSI PC card.

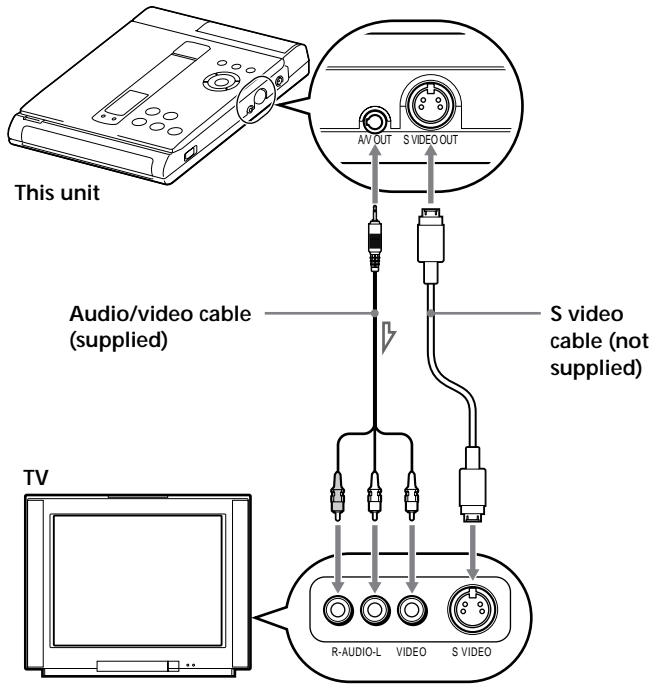
Turn off your PC, then turn off this unit.

Hooking up the system

This section describes how to hook up the unit to a TV (with audio/video input connectors) and/or an amplifier. You cannot connect this unit to a TV without a video input connector. Be sure to turn off the power of each component before making the connections.

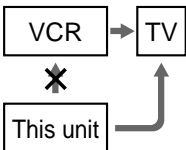
1 Hookups

When connecting the cord, be sure to match the colour-coded cord to the appropriate connectors on the components: Yellow (video) to Yellow, Red (right) to Red, and White (left) to White. Be sure to make connections firmly to avoid hum and noise.

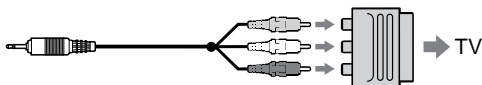


Note

Do not connect this unit to a VCR. If you view the pictures on your TV after making connections shown below, picture noise may appear.

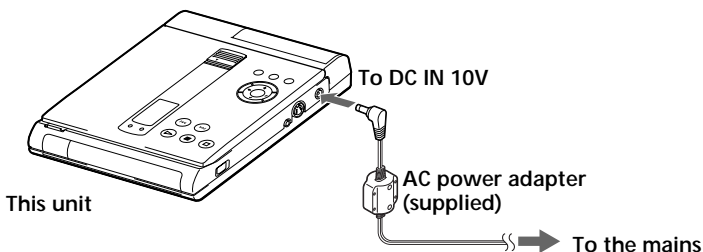


If your TV has a EURO AV (SCART) connector
Use the supplied Scart adapter.



If your TV has an S video input connector
Connect the component via the S VIDEO OUT connector using the S video cable (not supplied) instead of the video connecting cord. You will get a better picture.

2 Connecting the AC power adapter



You can attach the optional battery pack.
See "Using the rechargeable battery pack" (page 71).

When to replace batteries

With normal use, the batteries should last for about six months. When the remote no longer operates the unit, replace all the batteries with new ones.

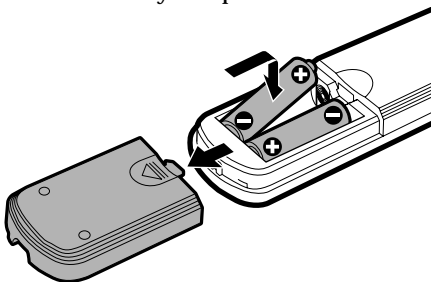
1 Connect the supplied AC power adapter to this player and the mains.

2 Press POWER.


The POWER indicator lights up green.

Inserting batteries into the remote

You can control the unit using the supplied remote. Insert two R6 (size AA) batteries (not supplied) by matching the + and - ends on the batteries to those inside the battery compartment.



Notes

- If you do not use batteries correctly, it may cause damage from leakage and corrosion. Please follow the directions below:
 - Make sure the polarity is correct.
 - Do not use a new battery with an old one or mix different types of batteries.
 - Do not charge a dry cell battery.
 - If you will not use the remote for an extended period of time, remove the batteries.
 - If you have battery leakage, replace with new batteries after cleaning the battery case.
- Do not expose the remote sensor  to direct sunlight or other lighting apparatuses. Doing so may cause a malfunction.

Necessary setup before using the unit




Note

This unit conforms to the PAL colour system. When you play a disc recorded in the NTSC colour system, the unit outputs the video signal in the PAL colour system.

Some initial setups are necessary for the unit depending on the TV or other components to be connected.

For details on using the menu, see page 60.

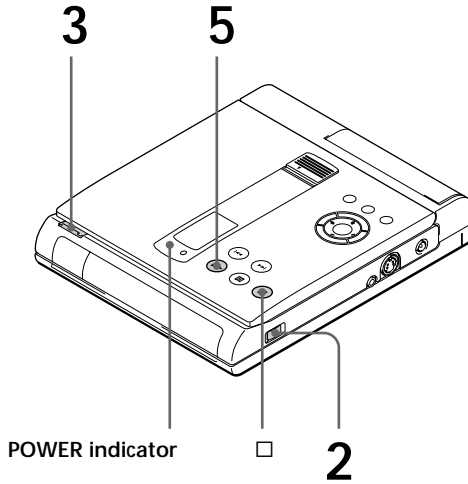
For details on each menu item, see pages 61 to 63.

- **To connect the unit to a normal TV**
Set "TV TYPE" in "INITIAL SETUP" to "4:3  (PANSCAN)" or "4:3  (LETTERBOX)."
- **To connect the unit to a wide-screen TV**
Set "TV TYPE" in "INITIAL SETUP" to "16:9 .
- **To connect the player to a digital component with a built-in Dolby Digital decoder**
Set "DIGITAL OUT" in "INITIAL SETUP" to "DOLBY DIGITAL."
- **To listen to the sound through speakers connected to an amplifier with a digital connector, or to output the sound to a digital component such as a DAT or MD deck**
Set "DIGITAL OUT" in "INITIAL SETUP" to "D-PCM."

"INITIAL SETUP" also includes other items such as "DVD MENU," "PARENTAL CONTROL," etc. For details, see page 60.

For basic operations such as using the unit, see "Playing a DVD VIDEO" (page 29) and "Playing a CD/VIDEO CD" (page 37). For additional features, see from page 45.

Playing a DVD VIDEO



When using the battery pack

Normally you cannot use the remote to turn on the unit. However, within 5 minutes after having used the battery pack, you can use the remote to turn on the unit.

- 1** Make the appropriate settings on your TV. Turn on the TV and select the video input so that you can view the pictures from this unit.

When using an amplifier

Turn on the amplifier and select the appropriate position so that you can listen to the sound from this unit.

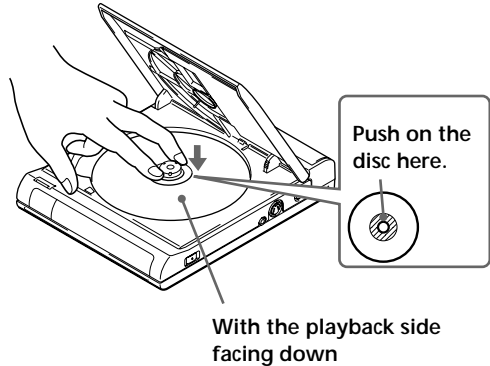
- 2** Press POWER to turn on the unit.
The POWER indicator lights up green and the front panel display lights up.
When using the battery pack, the front panel display doesn't light up.
- 3** Press OPEN to open the disc cover.

(continued)

4 Insert a DVD VIDEO disc.

When inserting a disc, please take note of the following.

- Insert the disc in a horizontal position.
- Push down gently with two fingers.
- Make sure the disc clicks into the position.



Notes

- If the disc is not inserted correctly, it may cause a malfunction.
- The power is automatically turned off whenever,
 - a disc is not being played.
 - you do not operate the unit or the remote for more than 30 minutes when using the AC power adapter (10 minutes when using the optional battery pack).
- When using as the DVD-ROM drive, the Auto Power Off function does not work.

Refer to the instructions supplied with your disc.

5 Close the disc cover, then press \blacktriangleright .

The player starts playback (Continuous Play).
Adjust the volume on the TV or the amplifier.

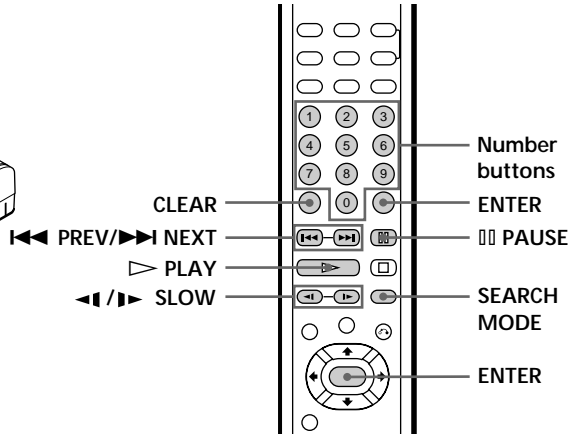
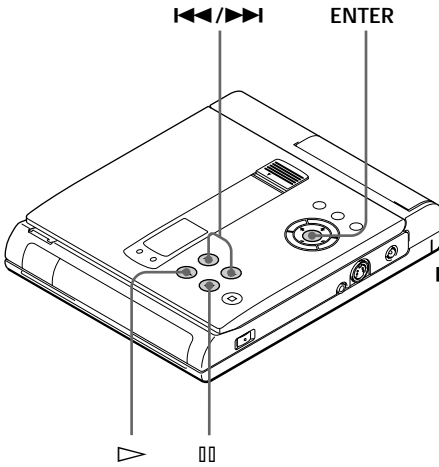
After doing Step 5

A DVD menu or title menu may appear on the TV screen (see page 33 or 34).

To stop playback

Press \square .

Various modes of playback



What are title and chapter?

See page 12.

Each time you press SEARCH MODE

“TITLE SEARCH,”
“CHAPTER SEARCH,”
and “TIME SEARCH”
appear on the TV screen.

Note

Depending on the DVD VIDEO, you may not be able to do some of the operations described on the right.

To	Press
Pause	II
Resume playback after pause	II or I>
Play in slow motion	I<< SLOW or I> SLOW. To return to Continuous Play mode, press I>.
Go/back to the next/preceding chapter in Continuous Play mode	I<</>I>>
Select the chapter	1 SEARCH MODE repeatedly until “CHAPTER SEARCH” appears on the TV screen. 2 The number buttons to select the chapter number, then ENTER.
Select the title	1 SEARCH MODE repeatedly until “TITLE SEARCH” appears on the TV screen. 2 The number buttons to select the title number, then ENTER.

(continued)

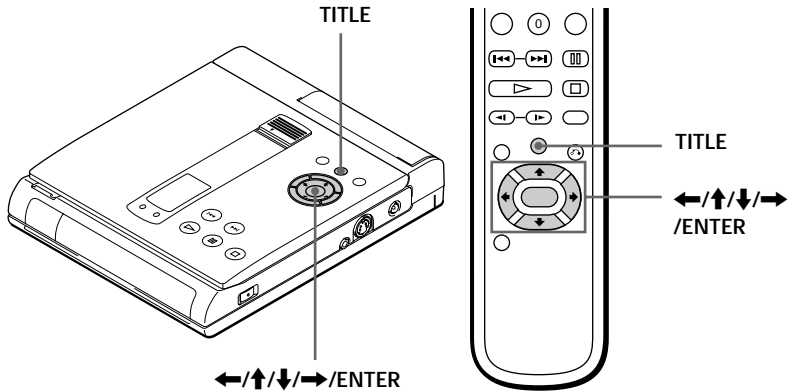
To	Press
Locate a point using the time code	1 SEARCH MODE repeatedly until "TIME SEARCH" appears on the TV screen. 2 The number buttons to enter a time code, then ENTER.
Quickly locate a point while monitoring the picture (Search)	⏪/⏩ and hold down until you find the point. (There is no sound during Search mode.)

If you enter the wrong number

Press CLEAR, then the correct number button.

Using the title menu

On a DVD VIDEO, long sections of movies or music pieces are divided into smaller segments. Each of these segments is called "title." When you play a DVD VIDEO which contains several titles, you can select the title you want using the title menu.



Notes

- Depending on the DVD VIDEO, you may not be able to select the title.
- Depending on the DVD VIDEO, the instructions supplied with the disc may refer to "title menu" as simply "menu" or "title ." Likewise, "Press ENTER." in Step 3 may be expressed as "Press SELECT."

1 Press TITLE.

The title menu appears on the TV screen. The contents of the menu vary from disc to disc.

2 Press $\leftarrow/\uparrow/\downarrow/\rightarrow$ to select the title you want to play.

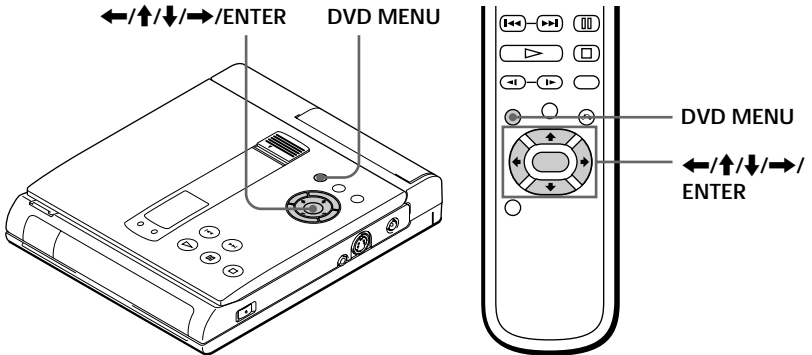
(Depending on the DVD VIDEO, you may be able to use the number buttons to select the title.)

3 Press ENTER.

The unit starts playing the selected title.

Using the DVD menu

Some DVD VIDEOS allow you to select the disc contents using the menu. When you play these DVD VIDEOS, you can select the item, the language for the sub-titles, the language for the sound, etc., using the DVD menu.



If you want to select the language for the DVD menu

Change the setting using "INITIAL SETUP" (see page 60).

Notes

- Depending on the DVD VIDEO, the instructions supplied with the disc may refer to "DVD menu" as simply "menu." Likewise, "Press ENTER." in Step 3 may be expressed as "Press SELECT."
- Depending on the DVD VIDEO, the DVD menu may not appear on the TV screen.

1 Press DVD MENU.

The DVD menu appears on the TV screen. The contents of the menu vary from disc to disc.

2 Press ←/↑/↓/→ to select the item you want to change.

(Depending on the DVD VIDEO, you may be able to use the number buttons to select the item.)

3 Press ENTER.

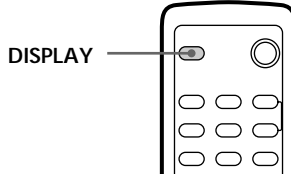
What is angle?
See page 58.

What is language for the sound and sub-titles?
See pages 61 and 62.

Note
Depending on the DVD VIDEO, some information may not appear on the TV screen.

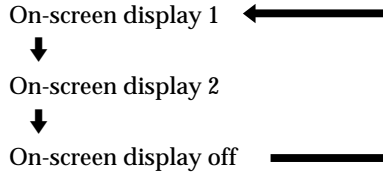
Using the on-screen display

You can check the operating status of the unit and information about the disc using the on-screen display on the TV screen.



Press DISPLAY.

Each time you press the button, the on-screen display changes as follows:



■ Display information of the on-screen display 1 (2) mode

Current title number/ total number of titles	Current play mode	Playing status
	DVD	PLAY
Playing time of the current title ¹⁾	TITLE / TOTAL :	1 / 1
	TITLE PLAY :	0 : 12 : 01
Playing time of the current chapter ²⁾	CHAPTER / TOTAL :	3 / 10
	CHAPTER PLAY :	0 : 00 : 43
	SUBTITLE / TOTAL :	
Current language for the sound/total number of languages for the sound	AUDIO / TOTAL :	OTHER / 1
	DOLBY DIGITAL :	5.1
	ANGLE / TOTAL :	1 / 6
		Current chapter number/total number of chapters in the current title
		Current language for the sub-titles/total number of languages for sub-titles
	Selected angle/total number of angles	Current audio format*

* "PCM," "MPEG," or "DOLBY DIGITAL" is displayed. In "DOLBY DIGITAL" case, the channel in the playing track is displayed.

(continued)

- 1) The contents of the display change according to the on-screen display setting:
 - When "On-screen display 1" is selected, the playing time of the current title is displayed.
 - When "On-screen display 2" is selected, the remaining time of the current title is displayed.
- 2) The contents of the display change according to the on-screen display setting:
 - When "On-screen display 1" is selected, the playing time of the current chapter is displayed.
 - When "On-screen display 2" is selected, the remaining time of the current chapter is displayed.

■ Display information of the on-screen display off mode

No information concerning on-screen display is displayed. (Other messages, etc., will be displayed.)

Using the front panel display

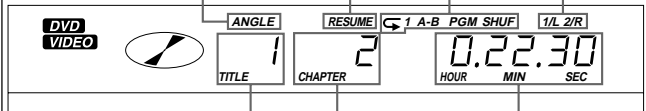
■ Display information while playing a disc

Lights up when you can switch the angle

Lights up when Resume Play is set

Current play mode

Current sound status

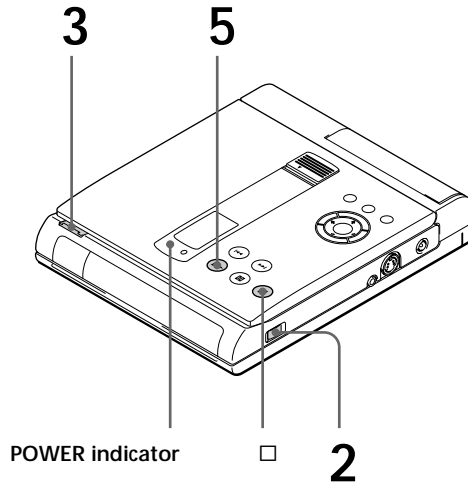


Current title number

Current chapter number

Playing time

Playing a CD/VIDEO CD



When using the battery pack
Normally you cannot use the remote to turn on the unit. However, within 5 minutes after having used the battery pack, you can use the remote to turn on the unit.

- 1** Make the appropriate settings on your TV. Turn on the TV and select the video input so that you can view the pictures from this unit.

When using an amplifier
Turn on the amplifier and select the appropriate position so that you can listen to the sound from this unit.

- 2** Press POWER to turn on the unit.
The POWER indicator lights up green and the front panel display lights up.
When using the battery pack, the front panel display doesn't light up.
- 3** Press OPEN to open the disc cover.

(continued)

After doing Step 5

The menu screen may appear on the TV screen depending on the VIDEO CD. You can play the disc interactively following the instructions on the menu screen. (PBC Playback, see page 41.)

Notes

- If the disc is not inserted correctly, it may cause a malfunction.
- The power is automatically turned off whenever,
 - a disc is not being played.
 - you do not operate the unit or the remote for more than 30 minutes when using the AC power adapter (10 minutes when using the optional battery pack).
- When using as the DVD-ROM drive, the Auto Power Off function does not work.

Refer to the instructions supplied with your disc.

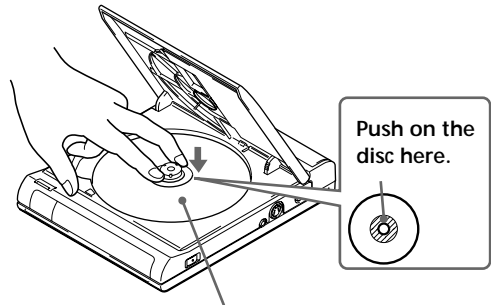
When starting playback

Adjust the sound volume to MIN (lowest level), then turn up the volume little by little.

4 Insert the disc.

When inserting a disc, please take note of the following.

- Insert the disc in a horizontal position.
- Push down gently with two fingers.
- Make sure the disc clicks into the position.



With the label side facing up

5 Close the disc cover, then press \blacktriangleright .

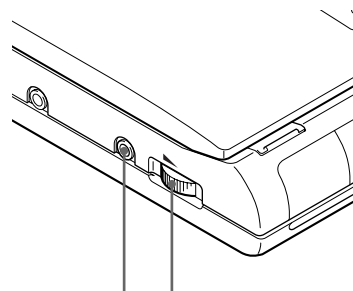
The unit starts playback (Continuous Play).
Adjust the volume on the TV or the amplifier.

To stop playback

Press \square .

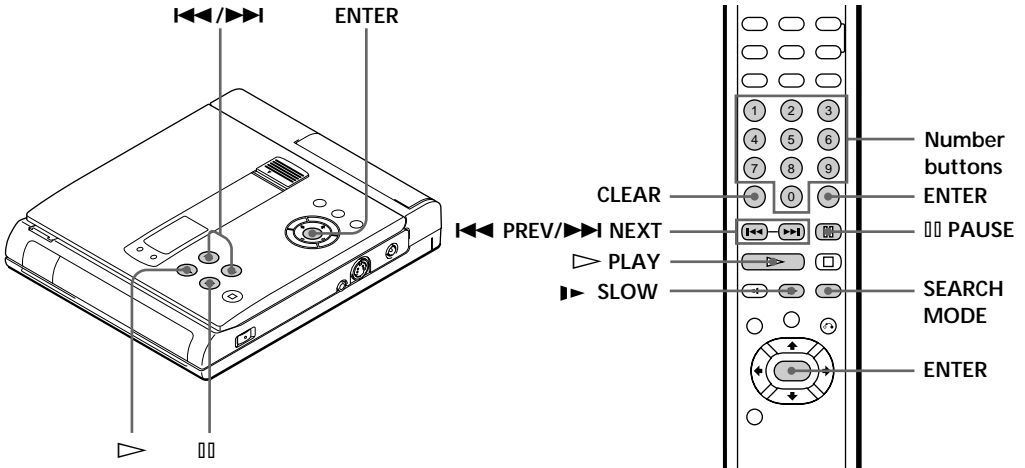
Listening through the headphones

You can enjoy the audio sound through headphones (not supplied) after connecting to the PHONES jack. Adjusting the sound volume, turn VOL.



PHONES jack VOL dial

Various modes of playback



What are track, index, and scene?

See page 12.

Each time you press SEARCH MODE

“TRACK SEARCH,” “SCENE SEARCH,” and “VIDEO INDEX SEARCH” appear on the TV screen.

Notes

- Depending on the VIDEO CD, you may not be able to do some of the operations described on the right.
- Depending on the VIDEO CD, the scene you selected may not start.

To	Press
Pause	PAUSE
Resume playback after pause	PAUSE or PLAY
Play in slow motion ¹⁾ (VIDEO CD only)	▶ SLOW (forward way only). To return to Continuous Play mode, press ▷.
Go/back to the next/preceding chapter in Continuous Play mode	◀◀/▶▶
Select the track	The number buttons to select the track number, then ENTER.
Select the scene before you start playing a VIDEO CD with PBC functions and during PBC playback (Scene Search)	1 SEARCH MODE repeatedly until “SCENE SEARCH” appears on the TV screen. 2 The number buttons to select the scene number, then ENTER.

(continued)

To	Press
Quickly locate a point while monitoring the picture (Search)	⏪/⏩ and hold down until you find the point. (There is no sound during Search mode.)

¹⁾ You may not be able to play in slow motion with the PBC function.

If you enter the wrong number

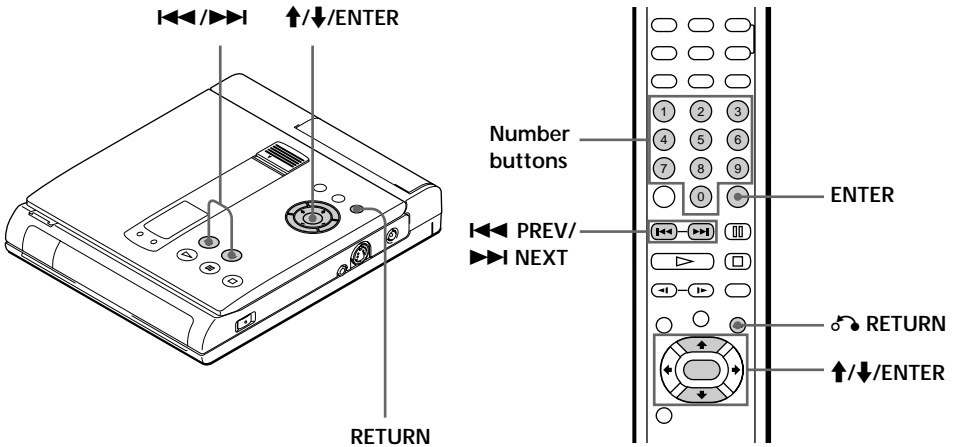
Press CLEAR, then the correct number button.

Playing VIDEO CDs with PBC functions (PBC Playback — VIDEO CD only)

When playing VIDEO CDs with PBC functions (Ver. 2.0 discs), you can enjoy simple interactive operations, operations with search functions, etc.

PBC Playback allows you to play VIDEO CDs interactively, following the menu displayed on the TV screen.

On this unit, use the number buttons, ENTER, **◀◀/▶▶**, **▶▶/◀◀**, **↻ RETURN**, and **↑/↓/ENTER** buttons to enjoy PBC Playback.



When playing VIDEO CDs with PBC functions
PBC Playback starts automatically.

Note

Depending on the VIDEO CD, "Press ENTER" in Step 3 may be expressed as "Press SELECT" in the instructions supplied with the disc.

- 1 Start playing a VIDEO CD with PBC functions, following Steps 1 to 5 in "Playing a CD/VIDEO CD" on page 37.
- 2 Select the item number you want on the menu screen.
Press **↑/↓** to select the item number or the number buttons of the item you want.
- 3 Press ENTER.
- 4 Follow the instructions on the menu screen for interactive operations.

To cancel PBC Playback of a VIDEO CD with PBC functions (and play the disc in Continuous Play mode)

There are two ways.

- Before you start playing, select the track you want using **⏮** or **⏭**, then press ENTER or **▷**.
- Before you start playing, select the track number using the number buttons on the remote, then press ENTER or **▷**.

“PLAY WITHOUT PBC” appears on the TV screen and the units starts Continuous Play. You cannot display still pictures such as a menu screen.

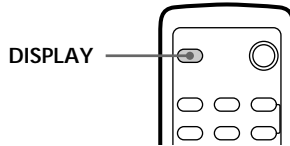
Follow the operation below to enjoy PBC Playback.

Refer to the instructions supplied with the disc, as the operating procedure may differ according to the VIDEO CD.

To	Press
Select the item	↑/↓ to select the item number, then press ENTER. The number button of the item you want, then press ENTER.
Go back to the menu screen	↶ RETURN, ⏮ , or ⏭ .

Using the on-screen display

You can check the operating status of the unit and the information about the disc using the on-screen display on the TV screen.



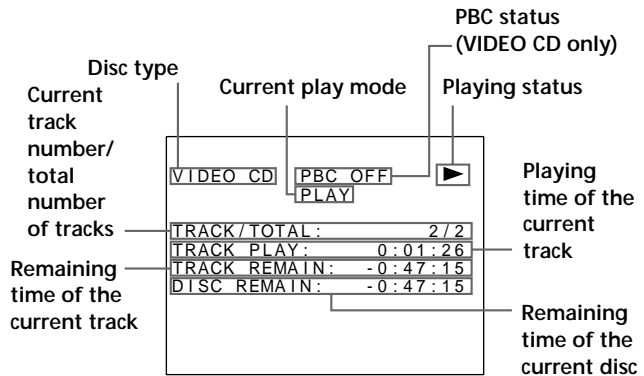
Press DISPLAY.

Each time you press the button, the on-screen display changes as follows:

On-screen display on ↔ On-screen display off

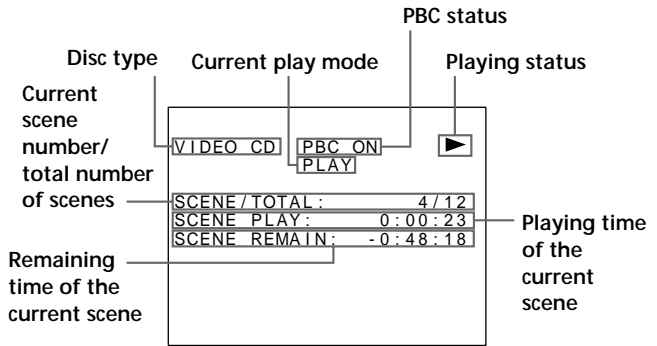
■ Display information of the on-screen display on mode

- During Continuous Play mode



During Shuffle Play or Programme Play, the remaining time of the disc is not displayed.

- During PBC Playback (VIDEO CD only)



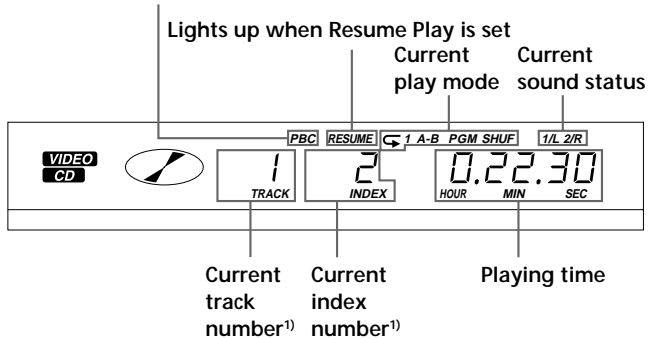
■ Display information of the on-screen display off mode

No information concerning on-screen display is displayed. (Other messages, etc., will be displayed.)

Using the front panel display

■ Display information while playing a disc

Lights up while playing a VIDEO CD with the PBC function

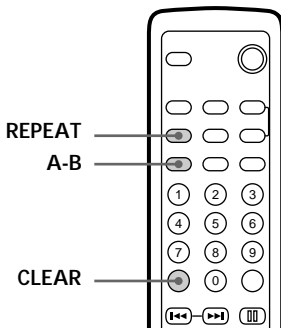


¹) When you play a VIDEO CD with the PBC function, the current scene number is displayed instead of the current track and index numbers.

Playing repeatedly (Repeat Play)



You can play all the tracks on a disc, a single title/ chapter/ track, or a specific portion repeatedly. To set Repeat Play, use the REPEAT or A-B button.



Notes

- The unit reverts to Continuous Play the next time playback starts whenever you;
 - open the disc cover.
 - turn the power off.
 - stop playback in resume off.
- You cannot repeat all the tracks in Continuous Play mode on a VIDEO CD with the PBC function.

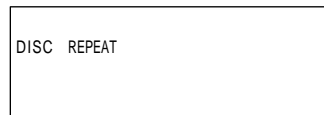
Repeating all the tracks on a disc



In Shuffle or Programme Play mode, the unit repeats the tracks in the shuffled or programmed order.

Press REPEAT repeatedly until "DISC REPEAT" appears on the TV screen.

"↶" appears in the front panel display. The unit repeats the tracks as follows:



ni ep si sid et

stap t in et

Continuous Play (page 37)	All the tracks in the recorded order
Shuffle Play (page 49)	All the tracks in random order every time repeat
Programme Play (page 50)	Programmed tracks

To cancel Repeat Play

Press REPEAT.

Note

The unit reverts to Continuous Play the next time playback starts whenever you;

- open the disc cover.
- turn the power off.
- stop playback in resume off.

Repeating the current title or chapter

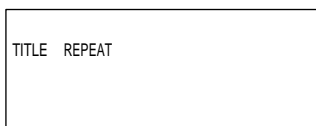


In Continuous Play mode (page 29), you can repeat only the current title or chapter. (You may not be able to do Repeat Play depending on the disc.)

■ To repeat the current title

While the title you want is being played, press REPEAT repeatedly until "TITLE REPEAT" appears on the TV screen.

"↶ 1" appears in the front panel display. The unit repeats the current title.



■ To repeat the current chapter

While the chapter you want is being played, press REPEAT repeatedly until "CHAPTER REPEAT" appears on the TV screen.

"↶ 1" appears in the front panel display. The unit repeats the current chapter.

To cancel repeating the current title or chapter

Press REPEAT repeatedly until "PLAY" appears on the TV screen.

Notes

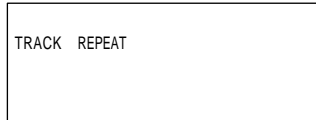
- The unit reverts to Continuous Play the next time playback starts whenever you;
 - open the disc cover.
 - turn the power off.
 - stop playback in resume off.
- You cannot repeat only the current track in Continuous Play mode on a VIDEO CD with the PBC function.

Repeating the current track

In Continuous Play mode (page 37), you can repeat only the current track.

While the track you want is being played, press REPEAT repeatedly until “TRACK REPEAT” appears on the TV screen.

“↶ 1” appears in the front panel display. The unit repeats the current track.



To cancel repeating the current track

Press REPEAT repeatedly until “PLAY” appears on the TV screen.

Notes

- The unit reverts to Continuous Play the next time playback starts whenever you;
 - open the disc cover.
 - turn the power off.
 - stop playback in resume off.
- When you set the A↔B Repeat, the settings for the other Repeat Play, Shuffle Play, and Programme Play are cancelled.
- Some scenes in the DVD VIDEO and VIDEO CD do not allow you to do A↔B Repeat playback.

Repeating a specific portion

(A↔B Repeat)

You can play a specific portion of a title/chapter/track repeatedly. This is useful, for example when you want to memorise lyrics.

During PBC Playback of VIDEO CDs (page 41), this function is available only while playing moving pictures. (You can repeat only a specific portion of moving pictures.)

You may not be able to do A-B Repeat depending on the DVD VIDEO.

- 1** When you find the starting point, press A-B.

The TV screen: "REPEAT A-" appears, then "B" flashes.

The front panel display: "↶ A-" appears, then "B" flashes.



- 2** When you reach the ending point (point B), press A-B again.

Repeat Play starts this specific portion.

The TV screen: "REPEAT A-B" appears.

The front panel display: "↶ A-B" appears.

To cancel A↔B Repeat

Press A-B repeatedly until "PLAY" appears on the TV screen.

To cancel the setting midway

Press CLEAR.

Playing in random order (Shuffle Play)



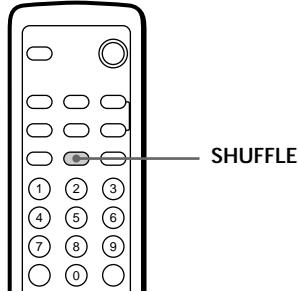
The unit can perform Repeat Play and Shuffle Play together

During Shuffle Play, press REPEAT to display "SHUFFLE REPEAT."

Notes

- The unit reverts to Continuous Play the next time playback starts whenever you;
 - open the disc cover.
 - turn the power off.
 - stop playback in resume off.
- You may not be able to do Shuffle Play during PBC Playback.

You can have the unit "shuffle" tracks and play them in a random order. To set Shuffle Play, use the SHUFFLE button.



Press SHUFFLE.

"SHUF" appears in the front panel display. You can play the current disc in a random order.



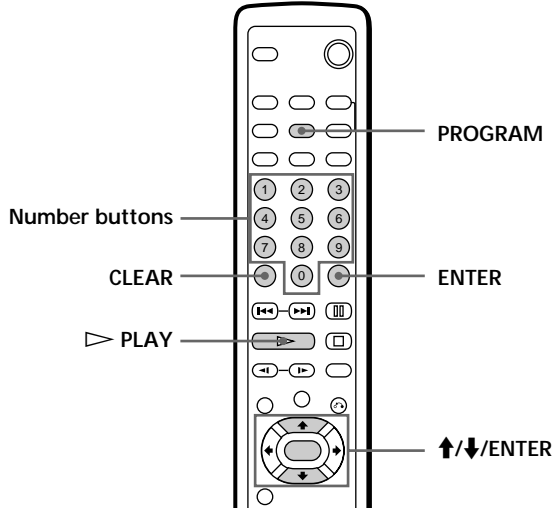
To cancel Shuffle Play

Press SHUFFLE repeatedly until "PLAY" appears on the TV screen.

Creating your own programme (Programme Play)

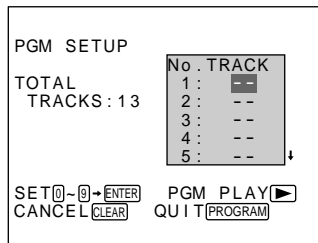


You can arrange the order of the tracks on the disc and create your own programme. The programme can contain up to 20 tracks.



1 Press PROGRAM.

“PGM SETUP” appears on the TV screen.



The programme remains even after the Programme Play ends

When you press \triangleright PLAY, you can play the same programme again.

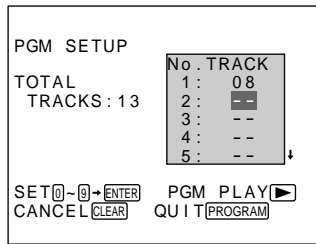
The unit can perform Repeat Play and Programme Play together

After programming, press REPEAT to change to "PROGRAM REPEAT" on the TV screen.

Notes

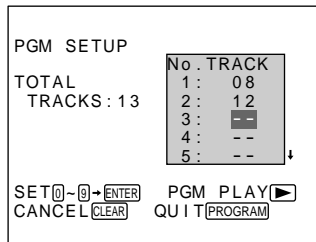
- The number of tracks displayed is that of the tracks recorded on a disc.
- The programme is cancelled and Continuous Play starts the next time playback starts when you;
 - open the disc cover.
 - turn the power off.
 - stop playback in resume off.
- You may not be able to do Programme Play during PBC Playback.

- 2 Select the track you want to programme using the number buttons, then press ENTER.



- 3 To programme other tracks, repeat Step 2.

The programmed tracks are displayed from 2 in order.



- 4 Press \triangleright PLAY.

The programmed tracks start in order.

To cancel Programme Play

Press PROGRAM repeatedly until "PLAY" appears on the TV screen.

To cancel programming midway

Press PROGRAM.

To change programming

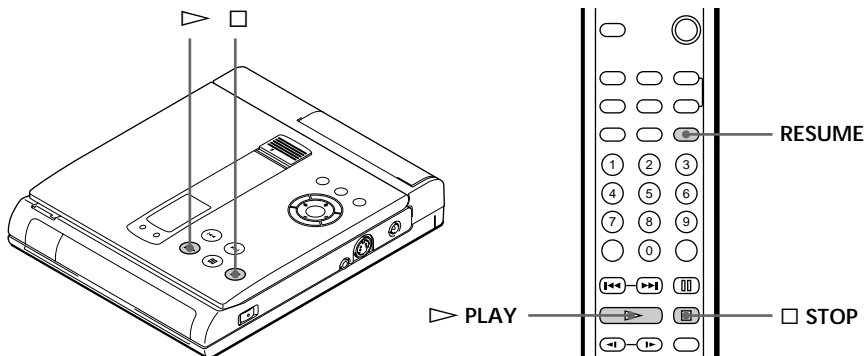
In Step 3, select the programme number of the track you want to change using the ↑/↓ buttons, then press CLEAR. Follow Step 2 for new programming.


To cancel the programmed order

To cancel a programmed track, select the track you want to clear using the ↑/↓ buttons in Step 3, then press CLEAR twice.


Resuming playback from the point where you stopped a disc (Resume Play)


The unit can store the point where you stop playback and the current play mode. During playback or stop playback, you can set Resume Play to ON/OFF using the RESUME button. When you play a VIDEO CD or CD, as long as you do not open the disc cover, the unit stores the point where you stop playback even if you turn the power off.



- 1** During playback or stop playback, press RESUME to display "RESUME ON" on the TV screen. "RESUME" appears in the front panel display.
- 2** While playing a disc, press  to stop playback. "WHEN PLAYING NEXT TIME, DISC RESTARTS FROM POINT YOU STOPPED." appears on the TV screen.

If Resume Play is set to OFF
Resume Play is not available.

- 3** Press .
The unit starts playback from the point you stopped the disc in Step 2.

To play from the beginning of the disc
When "RESUME" appears in the front panel display during stop playback, press RESUME to turn off "RESUME," then press .

(continued)

Notes

- You may not do Resume Play depending on the DVD VIDEO.
- Depending on where you stopped the disc, the unit may resume playback from a different point.
- The point where you stopped playback is cleared when you;
 - open or close the disc cover.
 - disconnect the AC power adapter and the battery pack.
 - start playback after selecting a title, chapter, or track.
 - change the setting of “INITIAL SETUP.”

Changing the sounds

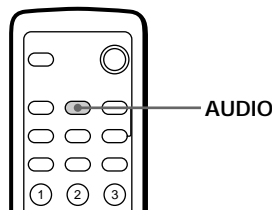


DVD

VIDEO
CD

CD

With DVD VIDEOS on which multilingual sounds are recorded, you can select the language you want while playing the DVD VIDEO. With multiplex VIDEO CDs, you can select the sound from the right or left channel and listen to the sound of the selected channel through both the right and left speakers. In this case, the sound loses the stereo effect.

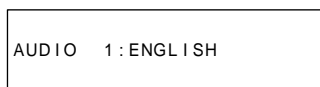


Press AUDIO while playing a disc.

Each time you press the button, the indication and the language/sound from the speakers change as follows:

■ When playing a DVD VIDEO

AUDIO 1 → AUDIO 2 →



■ When playing a VIDEO CD or CD

Indicator in the front panel display	You will hear
1/L	The sound of the left channel
2/R	The sound of the right channel
1/L 2/R	The standard stereo sound

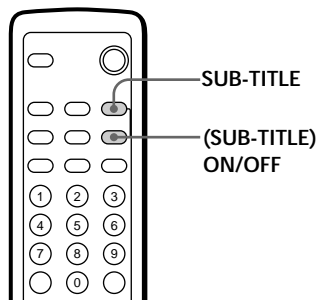
Notes

- Depending on the DVD VIDEO, you may not be able to change the languages even if multilingual sounds are recorded on the DVD VIDEO.
- Since the setting is not stored in memory, after turning the unit off or opening the disc cover, the next time an audio CD or VIDEO CD is played, the sound reverts to stereo.
- Likewise, after changing the title or opening the disc cover, the next time a DVD VIDEO is played, the sound may be changed.

Using the sub-titles



With DVD VIDEOS on which sub-titles are recorded, you can turn the sub-titles on and off and change the language of the sub-titles whenever you want while playing the DVD VIDEO.



Notes

- When playing the DVD VIDEO on which no sub-titles are recorded, no sub-titles appear even if you press (SUB-TITLE) ON/OFF.
- Depending on the DVD VIDEO, you may not be able to turn the sub-titles on even if they are recorded on the DVD VIDEO.
- Depending on the DVD VIDEO, you may not be able to turn the sub-titles off.

Turning the sub-titles on and off

Press (SUB-TITLE) ON/OFF while playing a DVD VIDEO.

Sub-titles appear on the TV screen.

To turn off the sub-titles

Press (SUB-TITLE) ON/OFF again.

Notes

- The sorts and number of languages for sub-titles vary from disc to disc.
- Depending on the DVD VIDEO, you may not be able to change the sub-titles even if multilingual subtitles are recorded on the DVD VIDEO.
- Depending on the DVD VIDEO, you may not be able to change the sub-titles following the language for the sound, even if "AUDIO FOLLOW" is displayed.
- Since the setting is not stored in memory, after changing the title or opening the disc cover, the next time a DVD VIDEO is played, the sub-title may be changed.

Changing the sub-titles

Press SUB-TITLE while playing a DVD VIDEO.

Each time you press the button, the indication and the sub-title change as follows:

SUBTITLE 1 → SUBTITLE 2 → ... → AUDIO FOLLOW *



SUBTITLE 1: ENGLISH

- * When you select "AUDIO FOLLOW," the language for the sub-titles changes according to the language for the sound.

Changing the angles



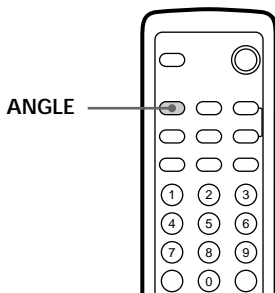
You can set the angle before reaching the position where you can change the angle

While playing a DVD VIDEO, press ANGLE when "ANGLE" is not displayed in the front panel display. When you reach the available position to change the angle, the angle is changed automatically.

Notes

- The number of angles varies from disc to disc or from scene to scene. The number of angles that can be changed for a given scene is the same as the number of angles recorded for that scene.
- Depending on the DVD VIDEO, you may not be able to change the angles even if multi-angles are recorded on the DVD VIDEO.
- Depending on the DVD VIDEO, the angle may not be changed immediately even after pressing the ANGLE button.

With DVD VIDEOS on which various angles (multi-angles) for a scene are recorded, you can change the angles whenever you want while playing the DVD VIDEO.



Press ANGLE while playing a DVD VIDEO and "ANGLE" appears in the front panel display.

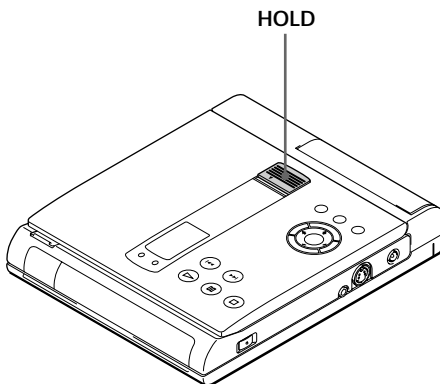
Each time you press the button, the indication and the angle change as follows:

ANGLE 1 → ANGLE 2 → ...



Preventing accidental pressing of the buttons

You can prevent accidental pressing of the buttons on this unit (when carrying, for example). After setting the HOLD switch to ON, the buttons are locked. (You can still use the remote to operate.)



Set HOLD to the direction of the arrow.

The buttons are locked.

To cancel Hold function

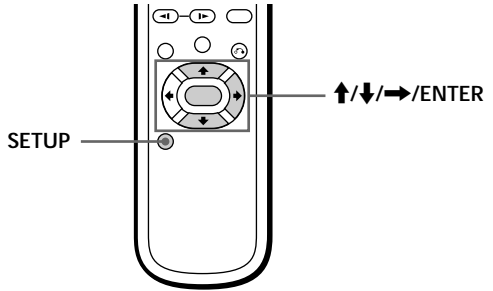
Set HOLD back.

Basic settings (INITIAL SETUP)



Steps 1-6

1



2

INITIAL SETUP	
DVD MENU:	ENGLISH
AUDIO:	ORIGINAL
SUBTITLE:	AU. FOLLOW
TV TYPE:	4 : 3
DIGITAL OUT:	D-PCM
PARENTAL:	OFF
SETUP	QUIT

3



INITIAL SETUP	
DVD MENU:	ENGLISH
AUDIO:	DEUTSCH
SUBTITLE:	FRANÇAIS
	ITALIANO
TV TYPE:	NEDERLANDS ↓
DIGITAL OUT:	D-PCM
PARENTAL:	OFF
SETUP	QUIT

4



To cancel the Initial Setup midway



Note
Some items on “INITIAL SETUP” require operations other than selecting the setting. For details on these items, see the relevant pages.

INITIAL SETUP items

Initial Setup

Note

When you select a language that is not recorded on the DVD VIDEO, another recorded language is automatically selected.

■ DVD MENU

VIDEO

- ENGLISH

EN

ENCA

AD •

VIDEO

EN •



ORIGINAL

h m a t s →

Initial Setup

VIDEO

Note

When you select a language that is not recorded on the DVD VIDEO, another recorded language is automatically selected.

■ AUDIO

VIDEO

- ORIGINAL

EN

EN

EN •

EN •

ENCA

AD •

VIDEO

EN •



ORIGINAL

h m a t s →

Initial Setup

VIDEO

Notes

- You cannot edit the subtitles with some DVD VIDEOS on which subtitles are not recorded.
- Depending on the DVD VIDEO, you may not be able to change the subtitles even if sub-titles are recorded on the DVD VIDEO.
- When you select a language that is not recorded on the DVD VIDEO, another recorded language is automatically selected.
- When you select AU. FOLLOW, the same language used as "DVD AUDIO" appears as the sub-title.

■ SUBTITLE

- AU.FOLLOW

■

■

■

■

■

■

■

■

■

■



h m d t s

Note

Depending on the DVD VIDEO, you may not be able to change the aspect ratio of the playback picture (see "Logo marks of DVD VIDEOS" on page 10).

■ TV TYPE

34 • ■

■

■

■

■

■

■

■

31 • ■

■

■

■

■

■

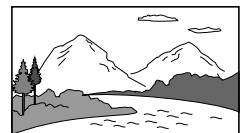
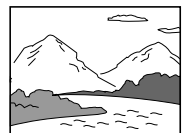
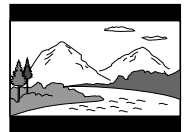
■

■

98 • ■

■

■



■ DIGITAL OUT

Note

Select the settings correctly using "DIGITAL OUT". Otherwise, either no sound will come from the speakers or else strange sound will come from the speakers, affecting your ears or causing the speakers to be damaged.

When using the digital output, the sound will be output to the digital output terminal.

- D-PCM (Dolby Digital)

NE:

■

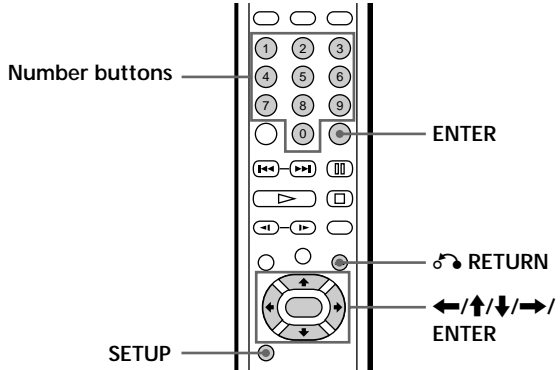
NETWORK

■ PARENTAL CONTROL

When using parental control, the content of the DVD will be restricted according to the parental control level.

Limiting playback by children (Parental Control)

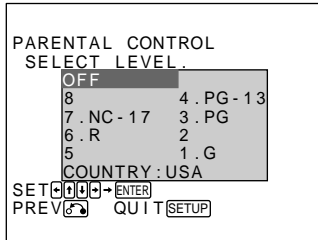
Limiting playback by children (Parental Control)



Note

If you change a country as the standard for playback limitation level, select "COUNTRY" using ←/↑/↓/→, then press ENTER. When you select "OTHER," select and enter the country code from the list using the number buttons (page 66).

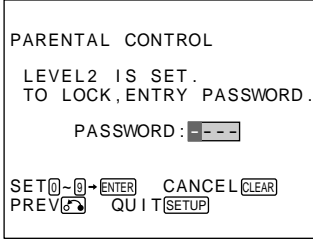
Setting the Parental Control



3

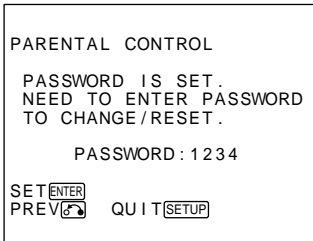


hi ,rth sg lcl hi 6 rbt A
as m sg rcttr
.spa clp a gric rf yslid th



4

.spa clp a gric rf yslid th



5

hi d th si lcl h6 htr th
sp rth

To go back to the previous menu to change the setting



To return to the normal screen



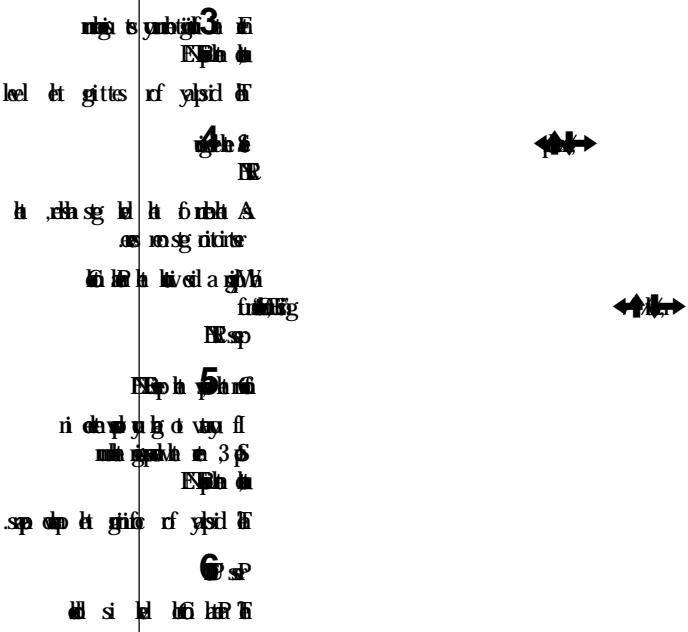
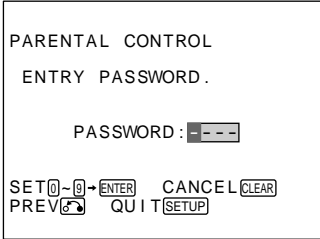
Country code list

Code	Country	Code	Country
2046	Austria	2363	Malaysia
2057	Belgium	2376	Netherlands
2079	Canada	2379	Norway
2092	China	2424	Philippines
2115	Denmark	2501	Singapore
2165	Finland	2149	Spain
2174	France	2499	Sweden
2109	Germany	2086	Switzerland
2219	Hong Kong	2543	Taiwan
2238	Indonesia	2528	Thailand
2254	Italy	2184	United Kingdom
2276	Japan		

Notes

- When you play DVD VIDEOS without the Parental Control function, playback cannot be limited on this unit.
 - Depending on the DVD VIDEO, you may be asked to change the Parental Control level while playing the disc. In this case, enter the password, then change the level.
- When you stop playing the DVD VIDEO, the level returns to the original level.

Changing/cancelling the Parental Control



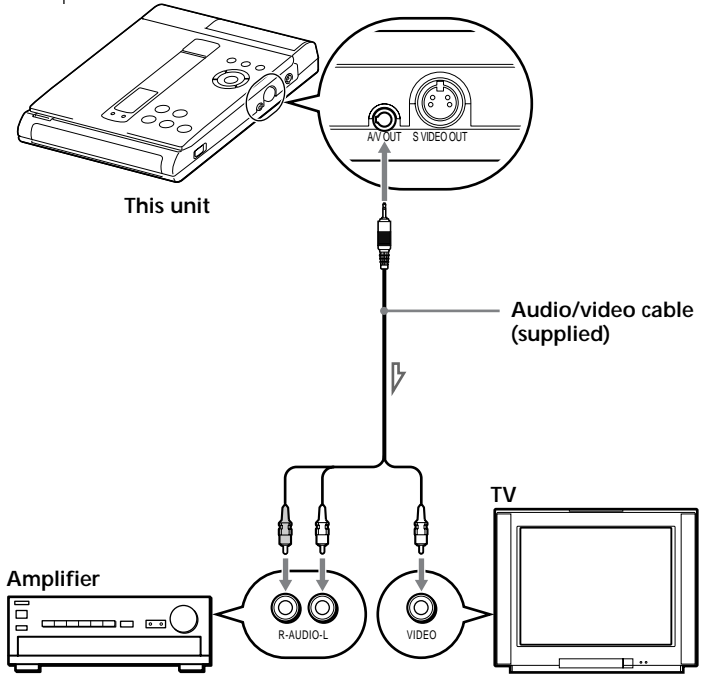
If you forget your password

3 ps ri vph a 3B ri

Using the audio amplifier

Connecting to the audio amplifier

of h g r i s p h a TV h G
)di ps(elac etv



Use the same connections if your amplifier conforms to "Pro Logic."

Note

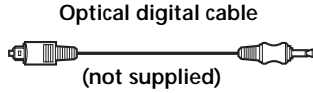
Refer to the instructions supplied with the component to be connected.

Connecting to a digital component with a built-in MPEG Audio decoder or Dolby Digital decoder

PCM/MPEG/DOBY

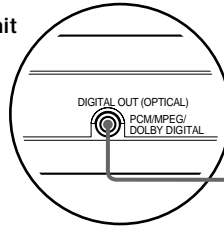
to the high level digital
MPEG audio decoder
the signal level of the
in the digital output
level of the digital
a digital signal for the
to

PCM/MPEG/DOBY
MPEG
DOBY

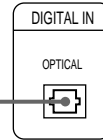


to the high level

This unit



Component with a built-in MPEG Audio decoder or Dolby Digital decoder



Notes

- Refer to the instructions supplied with the component to be connected.
- You cannot make digital audio recordings of discs recorded in Dolby Digital (AC-3) format directly using an MD deck or DAT deck.

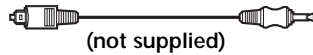
Note on digital recording

This player can be connected to an optional MD unit. Before making a digital recording, be sure that "CD" appears in the front panel display after turning this player on or closing the disc cover. Otherwise, the track numbers may not be recorded correctly.

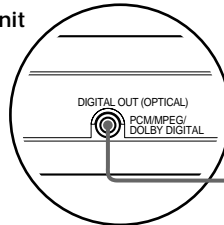
Connecting to a digital component such as an amplifier with a digital input connector, DAT or MD

COMPACT MCDOLBY

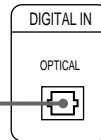
Optical digital cable



This unit



Amplifier with a digital connector, MD deck, DAT deck, etc.



When you make the connections above, set "DIGITAL OUT" in "INITIAL SETUP" to "D-PCM" (Downmix PCM). Otherwise, a loud noise will suddenly come out from the speakers, affecting your ears or causing the speakers to be damaged.

Using the rechargeable battery pack

Note

NP-F530 and NP-F550 are not compatible.

Compatible battery pack

Battery life

unit (approx.): hour

yret tã kãp	hivret gãP		
	EV/D	D EV	D oidã
NP-F730	2.0	3.0	2.8
F750	2.3	3.4	3.2
F930	3.3	4.8	4.5
F950	3.6	5.2	4.9

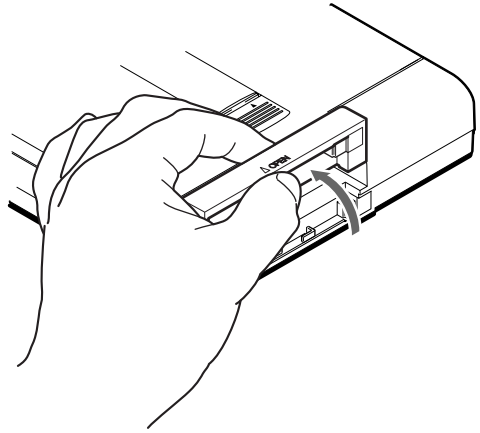
yret tã kãp	hivret gãP	
	EV	EV/D
NP-F730	2.4	1.8
F750	2.7	2.1
F930	4.0	3.2
F950	4.3	3.5

Charging time

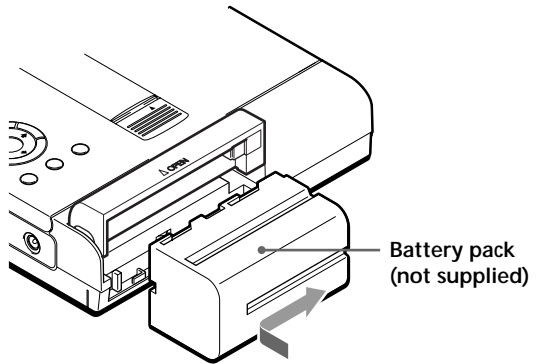
yret tã kãp	ret gãP ylãf
NP-F730	6.5
F750	7.0
F930	10.0
F950	11.0

Attaching the battery pack

1



2



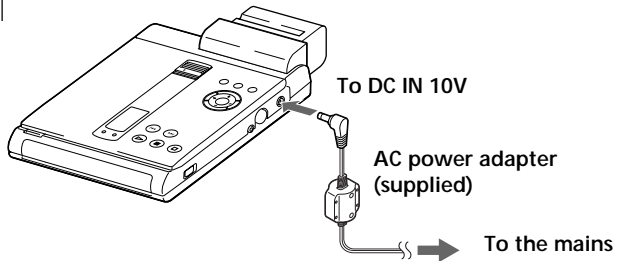
To prevent accidental pressing of the buttons

to prevent accidental pressing of the buttons

Notes

- If you turn on the unit while charging, charging is suspended until you turn off the unit.
- If you press \blacktriangleleft while charging, charging is suspended and playback starts. Charging will resume when you turn off the unit.
- If you press OPEN while charging, charging is suspended. After a while, the charging restarts.

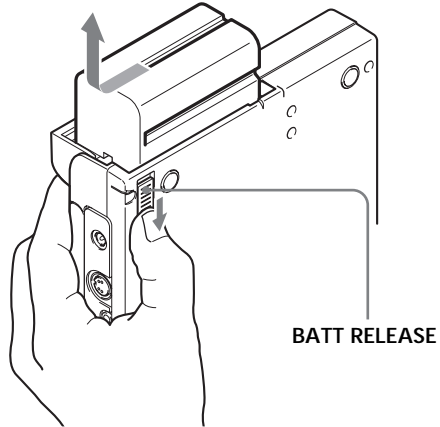
Recharging the battery pack



When to recharge the battery pack

Detaching the battery pack

1. Turn the camera off.
2. Press the battery release button.



Precautions

On safety

- Caution - The optical instruments with this product will increase eye hazard.
- Should any solid object or liquid fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.

Road safety

Do not use headphones/earphones while driving, cycling, or operating any motorised vehicle. It may create a traffic hazard and is illegal in some areas. It can also be potentially dangerous to play your headsets at high volume while walking, especially at pedestrian crossings. You should exercise extreme caution or discontinue use in potentially hazardous situations.

On power sources

- Disconnect the DC IN 10V jack first, then disconnect from the mains, even if the unit itself has been turned off.
- If you are not going to use the unit for a long time, be sure to disconnect the unit from the mains and/or detach the battery pack. To disconnect the AC power adapter, grasp the plug itself; never pull the cord.

On placement

Do not place the unit in a location where it is;

- On pedestal or unstable place
- On the rug or carpet
- On unlevelled surface
- Very humid or a wobble where there is no ventilation
- Subject to excessive dust
- Subject to direct sunlight or extremely hot
- Extremely cold
- Near a tuner, TV, or VCR.

(Sound noise or picture noise may occur when another TV, tuner, VCR, or other electrical appliance is near by. Indoor aerials may also adversely effect picture and sound quality. In this case, use an outdoor aerial instead.)

On operation

- If the unit is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lenses inside the unit. Should this occur, the unit may not operate properly. In this case, remove the disc and leave the unit turned on for about 30 minutes until the moisture evaporates. If the unit doesn't operate properly after hours, please consult your nearest Sony dealer.
- While operating, do not move, shake, or otherwise allow any shock to the unit. It may cause a malfunction.
- Use this unit in a stable, horizontal position where it is not subject to vibration.

On adjusting the volume

Do not turn up the volume while listening to a portion with very low level inputs or no audio signals. If you do, the speakers may be damaged when a peak level portion is played.

Turn the volume down before you start playback.

On the rechargeable lithium-ion battery (not supplied)

- Keep the battery away from fire.
- Keep the battery dry.
- Do not expose the battery to any mechanical shock.
- Do not open nor convert the battery.

On SCSI PC card

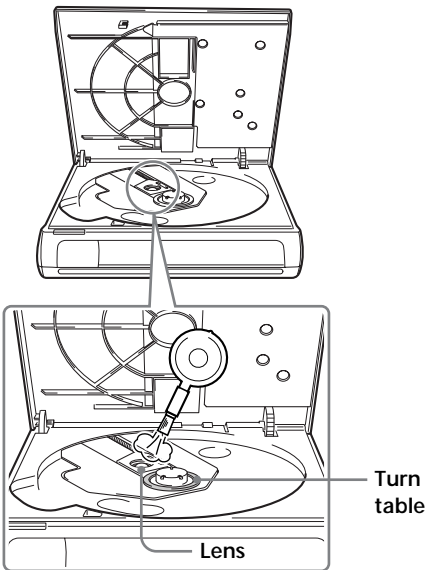
- Do not leave the SCSI PC card on a rug, etc. to protect it from static electricity. The components on the card can be destroyed by static electricity.
- Do not directly touch the connector.
- The SCSI PC card consists of electronic components that have precise dimensions. Do not drop or bump the SCSI PC card.
- To remove the SCSI PC card, follow the instructions for the PC card slot on your PC. If you remove the SCSI PC card by force, the SCSI PC card or your PC may be damaged.
- Do not disconnect or connect the interface cable when the SCSI PC card is connected to your PC.
- Do not expose the SCSI PC card to water.

On cleaning the cabinet

Clean the cabinet, panel, and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent such as alcohol or benzine.

On cleaning the lens and turn table

- Do not touch the lens or surrounding area and be sure to keep the disc cover closed except when inserting or removing discs to protect against dust.
- If you accidentally touch the lens with dirty fingers or if dust on the lens prevents the unit from operating properly, clean the lens with the KK-DM1 lens cleaning kit (not supplied).



- If the turn table does not work properly, check for dust or dirt on the turntable and clean using a soft cloth.
- Never remove the printed "Warranty void if removed." seal attached around the lens.

On transportation

- When you transport this unit, use the original carton box and packing materials.
- Before you move this unit, make sure to remove the disc inserted.

If you have any questions or problems concerning your unit, please consult your nearest Sony dealer.

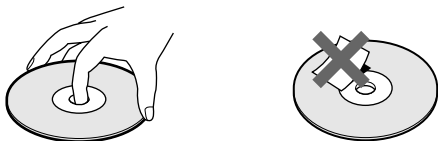
IMPORTANT NOTICE

Caution: The enclosed DVD Unit is capable of holding a still video image or Menu image on your television screen indefinitely. If you leave the still video image or Menu image displayed on your TV for an extended period of time, you risk permanent damage to your television screen. Projection televisions are very susceptible.

Notes on discs

On handling discs

- To keep the disc clean, handle the disc by its edge. Do not touch the surface.
- Do not write on or stick paper or tape to the surface of the disc.
- Do not use a disc with tape, seals, or paste on it as this may damage the unit.



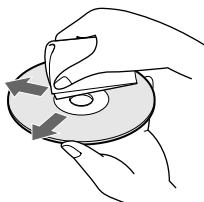
- Use only a disc with a circle shape. Do not use a disc with any other shape (star type, heart type, etc.), as this may damage the unit.

On safekeeping

- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight as there can be considerable rise in temperature inside the car.
- After playing, store the disc in its case. Piling up discs without cases or leaving the disc exposed may cause the disc shape to warp.

On cleaning

- Dirt from a fingerprint or dust causes picture noise or declining sound quality. Always keep the disc clean.
- Clean the disc with a cleaning cloth. Wipe the disc from the centre out.



- For dirt, clean the disc with a soft cloth slightly moistened with water, then remove the moisture with a soft dry cloth.
- Do not use solvents such as benzine, thinner, commercially available cleaners, or antistatic spray intended for vinyl LPs.

Specifications

System

System

Portable DVD Unit

Laser

Semiconductor laser

Signal format system

PAL colour system

Disc

Compatible discs

- DVD-ROM
- CD-ROM (mode-1 or mode-2 form 1)
- CD-R
- PHOTO CD (multisession)
- CD EXTRA (CD+)
- DVD VIDEO (PAL/NTSC)
- VIDEO CD (PAL/NTSC)
- AUDIO CD (CD-DA)

Note

Depending on the disc, optional software or the MPEG playing card is necessary for use.

Disc diameter

12 cm (4 ³/₄ inch), 8 cm (3 inch)

Drive performance

Data transfer rate

DVD-ROM: less than 1.352 MB/s

CD-ROM: less than 1.2 MB/s

(8× speed)

(with the AC power adapter)

less than 0.6 MB/s

(4× speed)

(with the battery pack)

These sustained rates are differ, depending on the PC.

Averaged access time (random access)

DVD-ROM: 300 ms

CD-ROM: 250 ms

Buffer memory capacity

1024 KB (DVD)

512 KB (CD)

Laser Diode Properties

DVD unit

Material

AlGaInP

Wavelength

650 nm

Emission Duration

Continuous

Laser Output

Less than 1000 μW

* This output is the value measured at a distance of 100 mm from the objective lens surface on the Optical Pick-up Block.

CD unit

Material

GaAlAs

Wavelength

780 nm

Emission Duration

Continuous

Laser Output

Less than 173 μW

* This output is the value measured at a distance of 100 mm from the objective lens surface on the Optical Pick-up Block.

Audio characteristics

Frequency response

DVD (PCM): 20 Hz to 44 kHz (+1.0 dB to -3.0 dB)

CD: 20 Hz to 20 kHz (+1.0 dB to -2.0 dB)

Signal-to-noise ratio (S/N)

More than 85 dB

High wave distortion rate

Less than 0.02 %

Dynamic range

More than 88 dB

Wow and flutter

Less than detected value (±0.001 % W PEAK)

Outputs

Jack name	Jack type	Maximum output levels	Load impedance
A/V OUT	Stereo mini jack	1 Vrms	Audio/Vrms 47 kilohms Video/Vpp 75 ohms terminated
PCM/MPEG/DOLBY DIGITAL	Optical output connector	-17 dBm	Wave length: 660 nm
S VIDEO OUT	4-pin mini DIN	Y: 1.0 Vp-p C: 0.286 Vp-p	75 ohms sync negative 75 ohms terminated
PHONES	Stereo mini jack	12 mV + 12 mV	16 ohms

General

Power requirements

- Power supply jack
DC IN 10V jack accepts the AC-PBD1 AC power adapter (supplied), AC 220-240 V, 50/60 Hz
- Battery pack (not supplied)

Power consumption

- AC 220-240 V, 50 Hz, 0.18 A (max, AC power adapter)
- DC 10 V, 1.1 A (max, DVD VIDEO playback with the AC power adapter)

Dimensions (approx.)

149.6 × 33.5 × 182.3 mm
(6 × 1 ³/₈ × 7 ¹/₄ inches) (w/h/d)

Mass (approx.)

570 g (1 lb 4 oz) (unit only)

Operating temperature

5°C to 35°C (-41°F to 95°F)

Operating humidity

5 % to 80 %

Environment

Temperature

-20°C to 55°C (-4°F to 131°F)

Humidity

15 % to 90 % Rh

SCSI PC card specifications

Operating temperature

5°C to 35°C (-41°F to 95°F)

Operating humidity

20 % to 80 % (no condensation)

Non-operating temperature

-20°C to 55°C (-4°F to 131°F)

Non-operating humidity

15 % to 90 % Rh (no condensation)

Acceptable interface

SCSI-2 based

MPC standard

MPC1, MPC2, MPC3 based

IC-PBD1 SCSI cable type PC card

Interface

PCMCIA 2.1 based

Card type

PCMCIA type II

Cable connected type

Half pitch pin type

50 pins

Cable length (approx.)

80 cm (31 ¹/₂ inch)

DC current required

DC 5V about 80 mA

PC card dimensions (approx.)

54 × 85.6 × 5 mm
(2 ¹/₄ × 3 ³/₈ × ⁷/₃₂ inches) (w/h/d)

Mass (approx.)

28 g (1 oz)

Supplied accessories

See page 7.

Optional accessories

- Battery pack
NP-F750/F950
- AC battery charger
AC-V700
- DC battery charger
DC-V700
DC-V515
- Optical digital cable
POC-15B/15AB
- Headphones
MDR-605LP

Design and specifications are subject to change without notice.

Troubleshooting

Sound jumps or data cannot be read.

When using as a DVD-ROM drive

The POWER/BUSY indicators are not lit when you turn on the unit.

This unit cannot be read on your PC or cannot work normally.

→

→

→

→

There is no sound.

→

→

→

→

→

→

Sending the data speed is slow.

→

→

→

→

Motion pictures do not play on your PC.

There is no picture.

IVM

da si tin h h G

ylas

si da gja G Fi

va a hviv ti caR qh

a

o unhoynh

Nbonyh

.)E ep(

Nbonyh

cl/ h tets y G M

qph S Nhoyn

tin hviv hv

When using as a DVD player

There is no sound.

The power is not turned on.

da si tin h h G

ylas

si da gja G Fi

va a hviv ti caR qh

a

o unhoynh

h n hviv hv

.)E ep(reifi h

h unhoynh

.reifi h

h tets y G M

h n hviv hv

d rsil n y h s rihp

tin hviv hv

ni ondan si hv

PrvG

rhvivo

sp rlas ni si hv

Gv

rel

andvlin

ts QM hviv rihp

rhvivo

.) E ep y hv G

qph h G

si lej qh hv G

tin hviv hv

d ts hv hv hv hv hv

.)E

n si hv hv hv

el hv hv hv

h hv hv hv

h hv hv hv

oxmhn

Gv hv hv hv

es hv hv hv

) .repa hv hv hv

s hv hv hv

.ffo ot

hv hv hv hv

h hv hv hv hv

rhvivo

h hv hv hv hv

hv hv hv hv hv

hv hv hv hv hv

hv hv hv hv hv

.relaed

"COS Lo dc In" appears in the front panel display.

h hv hv hv hv

da hv hv hv hv

hv hv hv hv hv

cl hv hv hv hv

hv hv hv hv hv

tin hviv hv

hv hv hv hv hv

hv hv hv hv hv

hv hv hv hv hv

hv hv



(continued)

The remote does not function.

The disc does not play.

h v s b y
 .tin h el n
 .tin h m n h
 n h a n h
 u h o
 et h et lla
 a h fi s w h v n
 .lav
 h g a y e n
 n d i p

.sid a t e s i c i l n s i
 h h h i v c i l h
 y l a o d u g f e s
 3 g y l a o c i l h
 .) 8 3
 .s i l e t
 t i n h h i c i l a t r i
 .) 7 g y p t e
 I V h 6 d i g h
 .) 7 g I V

Picture noise appears when the unit is connected to the TV via the VCR.

V h o y u i t i n h
 .) 2 g

h e s i d e t s h e s i
 h e d c i l h t i n
 n h e l f o p h n t i
 .) 7 g l e p t e s e r i g
 a r i e p s i t i n s t h

Picture noise appears when you record and play back the picture DVD VIDEO on a VCR.

t p a s e f t i n
 e a g s c i p y
 h e r e l y h
 V C R n s i l e 6 s i p
 . s e p e i n a t i p

e f a r i t i n h i h
 .) 6 g

The unit does not play from the beginning when playing a disc.

Sound or picture noise occurs.

.s i l e t
 h 6 g e l h
 n h d e g
 t p a s e f t i n
 e a g s c i p y
 n e d
 e p s i l e y h
 e l e s e n p a e h
 s i p
 b s i t i n s t h
 e i p h

h e p . s s i f h
 h e p h i n n
 e t n i s e p i d e t A
 h e p t e s y s i l h t f
 .) 5 g
 h n s p y l a t i n m
 . 1 3 3 g s V

The DVD VIDEO does not play when you select a title.

t s i r i t i n h i h
 .) 6 g

The unit starts playing automatically.

d a e t s e t a f
 e i p

Stopping playback, Search, Slow-motion Play, etc. cannot be performed.

s i p h f o e n d a e h b
 e i p s i t u s i e t a e r
 .) . s i l e t h i v

Shuffle Play, Programme Play, etc. cannot be performed.

The Parental Control function does not work.

The disc rotation speed is changed.

The aspect ratio of the screen cannot be changed when you play a wide picture of the DVD VIDEO.

The language for the sound cannot be changed when you play a DVD VIDEO.

The menu screen does not appear when you play a VIDEO CD.

The language for the sub-titles cannot be changed when you play a DVD VIDEO.

The sound loses stereo effect when you play a VIDEO CD or a CD.

The sub-titles cannot be turned off when you play a DVD VIDEO.

The power is turned off automatically.

The angles cannot be changed when you play a DVD VIDEO.

(continued)

Indications in the front panel display are too light.

When a DVD VIDEO, VIDEO CD, or audio CD is inserted, "DVD-ROM" or "CD-ROM" appears in the front panel display.

sil h h h o sil h si →
stas ch to sil
yo sil h si →

The unit or the AC power adapter heats up.

Note

If the unit does not play normally while using the AC power adapter due to static electricity, etc., disconnect the plug from the mains and the AC power adapter from the unit, then plug in and connect the AC power adapter to the unit again.

The OPEN button does not work.

"⊙" appears on the TV screen even after pressing operation buttons.

The alphabet and numbers appear on the TV screen or in the front panel display.

Glossary

Chapter

DVD VIDEO

Dolby Digital (AC-3)

DVD

MPEG Audio

Multi-angle function

Multilingual function

VIDEO CD

rf ~~del~~ h6
tp a ni stit

ng h ~~del~~
stip

~~del~~

NZ h si al etp T
stais ~~del~~ et f e ,anf

Parental Control

Ti ~~del~~ ~~del~~ hgl 6

~~del~~ 6 ~~del~~ A
h 6 ritail ~~del~~
a sas h f g
h la ri h ~~del~~
ilom siw ritail
p ~~del~~ si ti
s tiv o ~~del~~
tiv ~~del~~ o ~~del~~
.ce

I h o ~~del~~ si al etp
a ~~del~~ ~~del~~ hji si f @

~~del~~
~~del~~

~~del~~ ~~del~~

f gr et elsto ~~del~~ .atal

~~del~~ ~~del~~ ~~del~~

n ea h a w al h

6 ~~del~~

f ritafi ca et rit

~~del~~ ~~del~~

Playback Control (PBC)

~~del~~ 6 ~~del~~ 2 ea ~~del~~

~~del~~ ~~del~~

~~del~~ ~~del~~ ~~del~~

~~del~~ ~~del~~

~~del~~

ritai ~~del~~ ~~del~~ ~~del~~ n

~~del~~ ~~del~~
~~del~~ ~~del~~

h ~~del~~ n ~~del~~ ~~del~~

sa al etp llis ritel

~~del~~

asal ~~del~~

~~del~~ ~~del~~

Title

a f sites ~~del~~ T

~~del~~ ~~del~~

b etp a o ,ce

a o ,~~del~~ ~~del~~ ~~del~~

ca na o ~~del~~

gh ~~del~~ ~~del~~ a ~~del~~

gr etit h ~~del~~

Track

a o etp a f ~~del~~

si h ~~del~~ ~~del~~

gr ~~del~~ ~~del~~ a ~~del~~

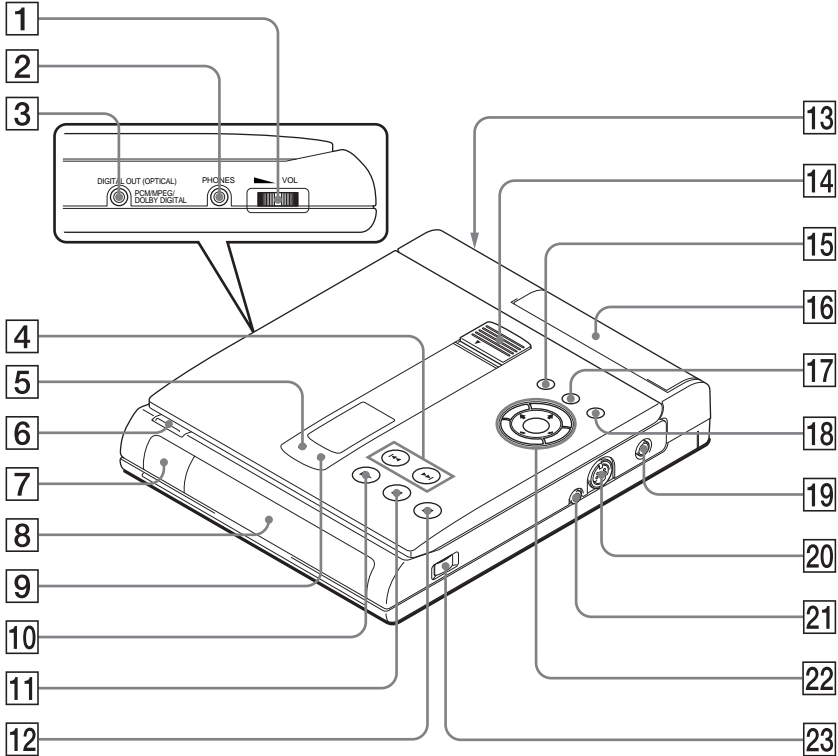
gr ~~del~~ h ~~del~~ o

Self-diagnosis function

Code number	Means	Do
C01	The battery pack is fully consumed.	Connect the AC power adapter to recharge.
C05	The AC power adapter has a problem.	Connect the supplied AC power adapter firmly. If the code number is still displayed, see page 81.
C13	The disc is dirty.	Clean the disc with a soft cloth (page 77).
EXXXXX (XXXXX are optional numbers.)	To prevent a malfunction, the self-decision function is working.	Please contact your Sony dealer and present the five digits number displayed. Example: E0002

Index to parts and controls

Front and side panel



1 VOL (volume) dial (38)

2 PHONES jack (38)

3 PCM/MPEG/DOLBY DIGITAL connector (69, 70)

4 ◀▶ (previous/next) buttons (31, 39)

5 POWER indicator (29, 37)

6 OPEN button (29, 37)

18 RETURN button (41, 64)

7 (remote sensor) (27)

19 DC IN 10V jack (26)

8 Front panel display (36, 44)

20 S VIDEO OUT connector (25)

9 BUSY indicator

21 A/V OUT connector (25, 68)

ROM.

10 ▷ (play) button (30, 38)

22 ←/↑/↓/→/ENTER buttons

11 ⏸ (pause) button (31, 39)

23 POWER button (29, 37)

12 □ (stop) button (30, 38, 53)

13 SCSI connector (half pitch pin type 50 pins)

14 HOLD switch (59)

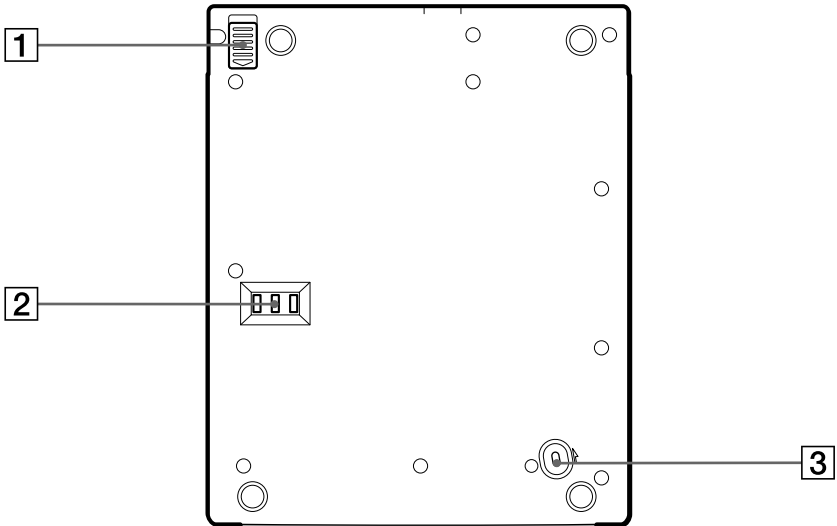
15 DVD MENU button (34)

16 Battery pack connector (72)

17 TITLE button (33)

(continued)

Rear Panel



1 BATT RELEASE switch (74)

to yth hRw

2 DIP switch

phó DSh p S

hW Shtg

at sStp

h2g

stBM a tu

3 MANUAL LID RELEASE switch

(84)

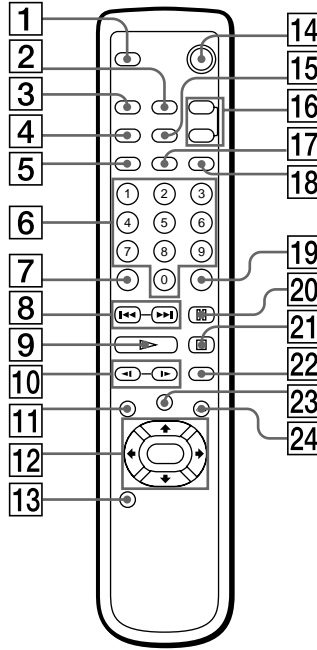
yth w sil hQa

el xpl pA t v

ea lq yetto t

clousd

Remote



1 DISPLAY button (35, 43)

gip in h spD
ns Vh n sS

2 AUDIO button (55)

clur h G
MEP
Cila oD

3 ANGLE button (58)

va sg h G
MEP

4 REPEAT button (45, 46, 47)

lep spR

5 A-B button (48)

ritp cifp a spR

6 Number buttons

gits onsi h tES

7 CLEAR button

mi clur h skE

8 ◀◀ PREV/▶▶ NEXT buttons
(31, 39)

h o vG
h o hP
hs o D

9 ▷ PLAY button (30, 38)

.sil a lo spR

10 ◀◀/▶▶ SLOW buttons (31, 39)

mi ni cl a P

11 DVD MENU button (34)

h clur h G
h sp D ts o ns V
clur

(continued)

12 ←/↑/↓/→/ENTER buttons

gits nri h s

13 SETUP button (60, 64)

h s

14 POWER button (29, 37)

h f d n p h s
.in

15 PROGRAM button (50)

g h a s

16 SUB-TITLE, (SUB-TITLE) ON/OFF
buttons (56)

d n s t t i s h n i
h e t t i s h e d
h s

17 SHUFFLE button (49)


h f s n i s i d a s

18 RESUME button (53)

h n i s i d a s

19 ENTER button (31, 39, 50, 64)

gits nri h s

20  PAUSE button (31, 39)

.s i a l b s

21  STOP button (30, 38, 53)

s i a l b s

22 SEARCH MODE button (31, 39)

r e l a s n i t i n h s
) . c e x l a t (

23 TITLE button (33)

h n e d t i t h s
s V

24  RETURN button (41, 64)

h h a s
c e s t i c s

Language code list

Code	Language	Code	Language	Code	Language
1027	Afar	1149	Spanish	1261	Japanese
1028	Abkhazian	1150	Estonian	1269	Yiddish
1032	Afrikaans	1151	Basque	1283	Javanese
1039	Amharic	1157	Persian	1287	Georgian
1044	Arabic	1165	Finnish	1297	Kazakh
1045	Assamese	1166	Fiji	1298	Greenlandic
1051	Aymara	1171	Faroese	1299	Cambodian
1052	Azerbaijani	1174	French	1300	Kannada
1053	Bashkir	1181	Frisian	1301	Korean
1057	Byelorussian	1183	Irish	1305	Kashmiri
1059	Bulgarian	1186	Scots Gaelic	1307	Kurdish
1060	Bihari	1194	Galician	1311	Kirghiz
1061	Bislama	1196	Guarani	1313	Latin
1066	Bengali; Bangla	1203	Gujarati	1326	Lingala
1067	Tibetan	1209	Hausa	1327	Laothian
1070	Breton	1217	Hindi	1332	Lithuanian
1079	Catalan	1226	Croatian	1334	Latvian; Lettish
1093	Corsican	1229	Hungarian	1345	Malagasy
1097	Czech	1233	Armenian	1347	Maori
1103	Welsh	1235	Interlingua	1349	Macedonian
1105	Danish	1239	Interlingue	1350	Malayalam
1109	German	1245	Inupiak	1352	Mongolian
1130	Bhutani	1248	Indonesian	1353	Moldavian
1142	Greek	1253	Icelandic	1356	Marathi
1144	English	1254	Italian	1357	Malay
1145	Esperanto	1257	Hebrew	1358	Maltese

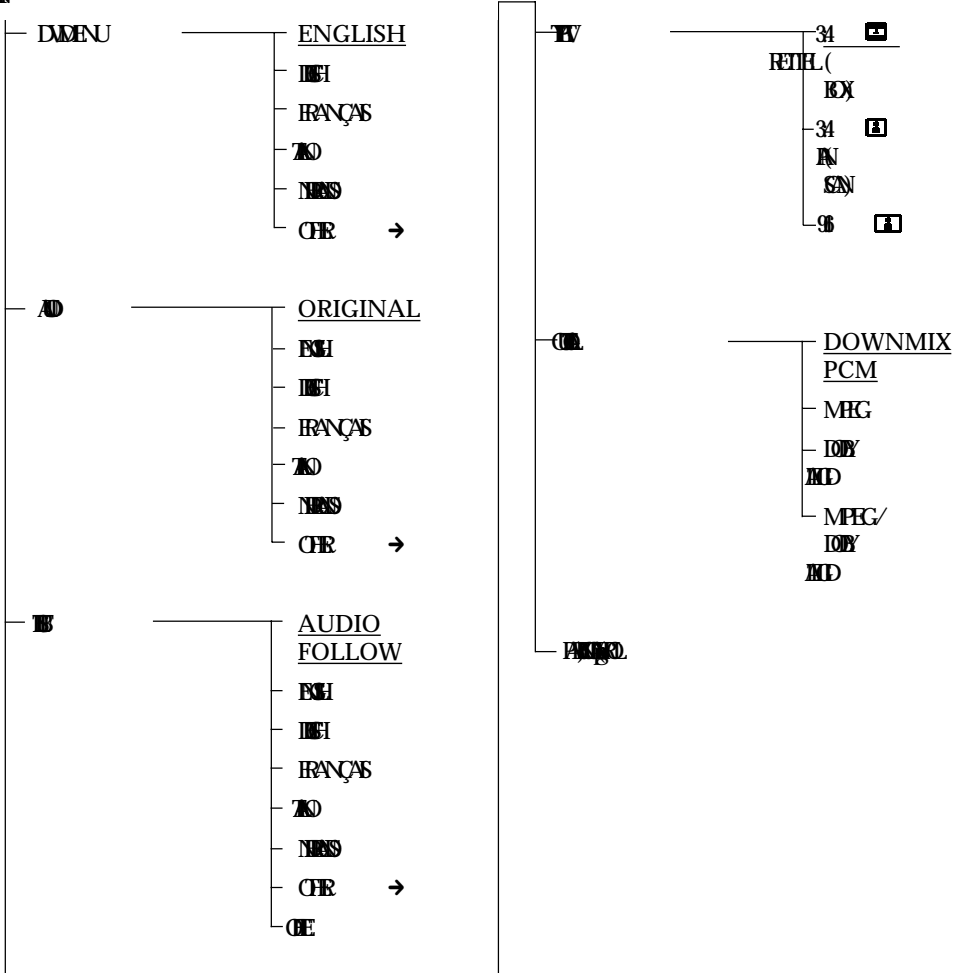
(continued)

Code	Language	Code	Language	Code	Language
1363	Burmese	1501	Sangho	1531	Turkmen
1365	Nauru	1502	Serbo-Croatian	1532	Tagalog
1369	Nepali	1503	Singhalese	1534	Setswana
1376	Dutch	1505	Slovak	1535	Tonga
1379	Norwegian	1506	Slovenian	1538	Turkish
1393	Occitan	1507	Samoaan	1539	Tsonga
1403	(Afan) Oromo	1508	Shona	1540	Tatar
1408	Oriya	1509	Somali	1543	Twi
1417	Punjabi	1511	Albanian	1557	Ukrainian
1428	Polish	1512	Serbian	1564	Urdu
1435	Pashto; Pushto	1513	Siswati	1572	Uzbek
1436	Portuguese	1514	Sesotho	1581	Vietnamese
1463	Quechua	1515	Sundanese	1587	Volapük
1481	Rhaeto-Romance	1516	Swedish	1613	Wolof
1482	Kirundi	1517	Swahili	1632	Xhosa
1483	Romanian	1521	Tamil	1665	Yoruba
1489	Russian	1525	Telugu	1684	Chinese
1491	Kinyarwanda	1527	Tajik	1697	Zulu
1495	Sanskrit	1528	Thai	1703	Not specified
1498	Sindhi	1529	Tigrinya		

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ittes tlaif

6 of 7 AM



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