SONY

3-864-642-12(1)

Portable DVD Player

Operating Instructions

DVD Discman

PBD-V30

©1998 by Sony Corporation

WARNING

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

CAUTION

The use of optical instruments with this product will increase eye hazard. As the laser beam used in this Portable DVD Player is harmful to eyes, do not attempt to disassemble the cabinet.

Refer servicing to qualified personnel only.

CAUTION-
Laser radiation when open.
DO NOT STARE INTO BEAM.

This label is located on the bottom.

For customers in the U.S.A.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Owner's Record

The model and serial numbers are located at the bottom of the player. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. PBD-V30
Serial No._____

CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

For customers in Canada

CAUTION

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT. FULLY INSERT.

ATENTION

POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU' AU FOND.

Welcome!

Thank you for purchasing the Sony Portable DVD Player. Before operating the player, please read this manual thoroughly and retain it for future reference.

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Manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby," the double-D symbol DD, "Pro Logic," and "AC-3" are trademarks of Dolby Laboratories Licensing Corporation.

This player can play the following discs

DVD VIDEOs	DVD VIDEO
VIDEO CDs	COMPACT disc DIGITAL VIDEO
AUDIO CDs (CD-DA)	COMPACT disc DIGITAL AUDIO

About playing a CD-R
You can play a CD-R recorded with a VIDEO CD or an AUDIO CD. However, depending on the CD-R, playback may not be possible.

You cannot play the discs below:
- DVD-ROMs
- CD-ROMs
- PHOTO CDs
- CD EXTRAs (data sections)

Note
This player conforms to the NTSC color system. You cannot play discs recorded in other color systems such as PAL or SECAM.

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 player can play the discs.
Unless "1" is included in the indications or ALL is labelled on the DVD VIDEOs, you cannot play the discs on this player. 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 player 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
3	The number of audio tracks
2	The number of sub-titles
3	The number of angles
16:9 LB	The picture aspect ratio
1	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 authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering of disassembly is prohibited.

Notes on VIDEO CDs with PBC (Playback Control) functions

This player 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.

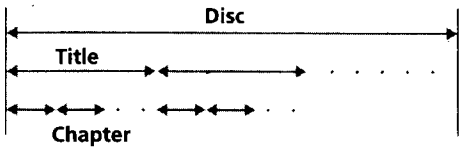
Disc type	You can
VIDEO CDs without PBC functions (Ver. 1.1 discs)	Enjoy video playback (moving pictures) as well as music.
VIDEO CDs with PBC functions (Ver. 2.0 discs)	Play interactive software using menu screens displayed on the TV screen (PBC Playback), in addition to the video playback functions 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.

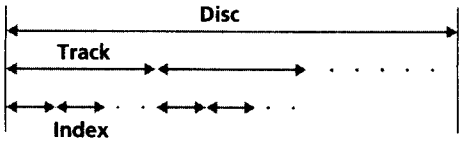
DVD VIDEO structure



- **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.

VIDEO CD or CD structure



- **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.

About this manual

- Complete the set up using "Getting Started" (pages 9 to 13).
- For basic operations, see "Playing a DVD VIDEO" (pages 14 to 21) and "Playing a CD/VIDEO CD" (pages 22 to 29).
- For additional features, see pages 30 to 52.
- The icons shown below are used in this manual:

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

Unpacking

Check to make sure you have received the following items.

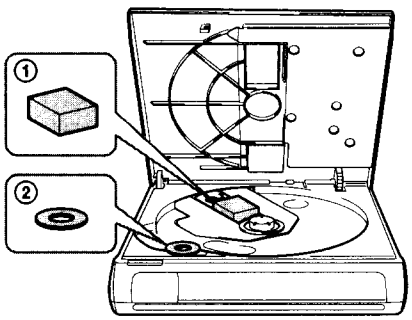
- Audio/video cable (stereo mini plug × 1 ⟷ phono plug × 3) (1)
- AC-PBD1 AC power adapter (1)
- RM-PBD1 remote commander (remote) (1)

CAUTION

Before using this player, 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.



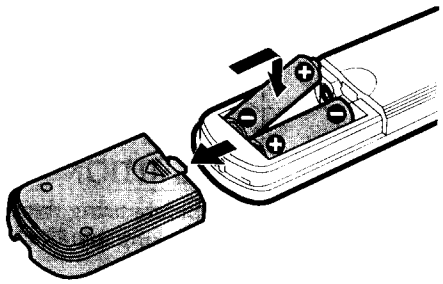
If you turn on the player without removing these materials, it may cause a malfunction.

When to replace batteries

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

Inserting batteries into the remote

You can control the player 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

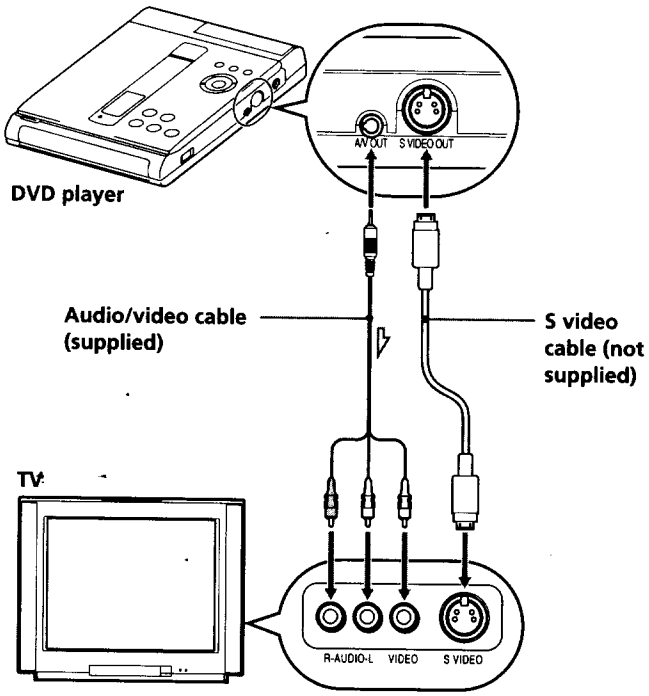
- If you do not use batteries correctly, it may cause damage from leakage and corrosion. Please follow the directions below:
  - Make sure the polarity is correct.
  - Do not use a new battery with an old one or mix different types of batteries.
  - Do not charge a dry cell battery.
  - If you will not 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.

Hooking up the system

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

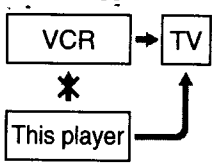
1 Hookups

When connecting the cord, be sure to match the color-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

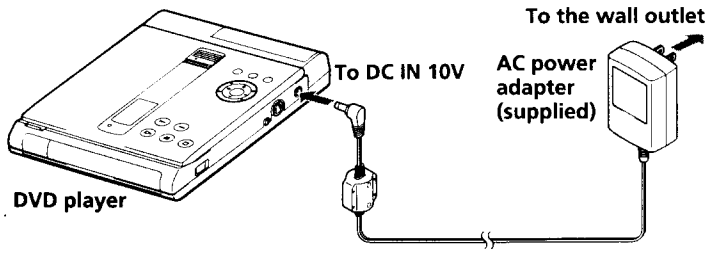
Do not connect this player to a VCR. If you view the pictures on your TV after making connections shown below, picture noise may appear.



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 46).

1. Connect the supplied AC power adapter to this player and the wall outlet.
2. Press POWER.

   The POWER indicator lights up green.

Necessary setup before using the player

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

For details on using the menu, see page 53.

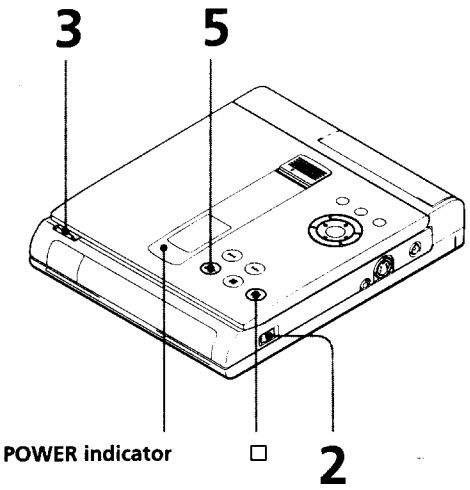
For details on each menu item, see pages 54 to 56.

- **To connect the player to a normal TV**
  Set "TV TYPE" in "INITIAL SETUP" to "4:3 (PANSCAN)" or "4:3 (LETTERBOX)."
- **To connect the player 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 53.

For basic operations such as using the player, see "Playing a DVD VIDEO" (page 14) and "Playing a CD/VIDEO CD" (page 22). For additional features, see from page 30.

Playing a DVD VIDEO



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

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 player.

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

2 Press POWER to turn on the player.

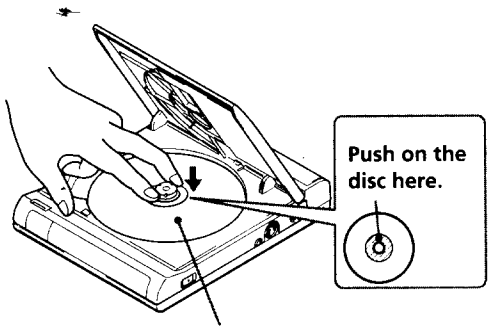
The POWER indicator lights up green and the front panel display lights up. When using the battery pack, the front panel display doesn't light up.

3 Press OPEN to open the disc cover.

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.



With the playback side facing down

5 Close the disc cover, then press ▷.

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 18 or 19).

To stop playback

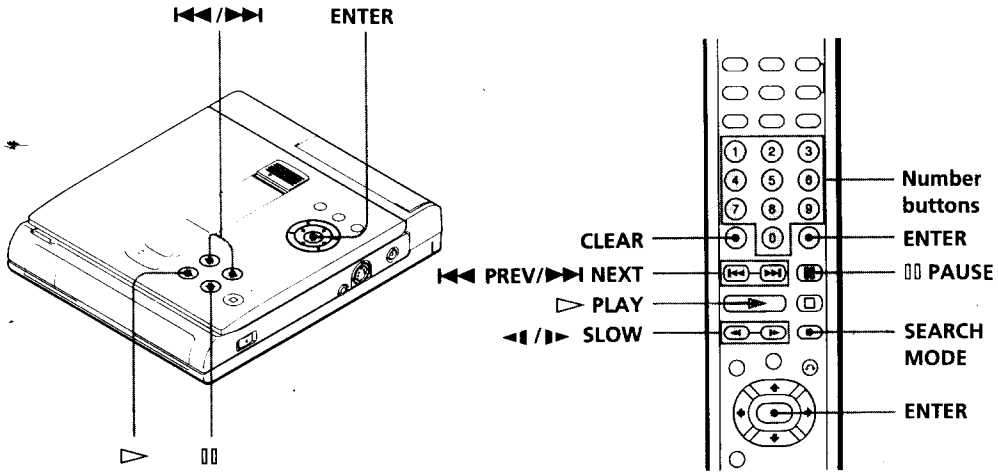
Press □.

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 player or the remote for more than 30 minutes when using the AC power adapter (10 minutes when using the optional battery pack).

Refer to the instructions supplied with your disc.

Various modes of playback



What are title and chapter?
See page 7.

Each time you press SEARCH MODE
"TITLE SEARCH" and "CHAPTER 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	▯▯
Resume playback after pause	▯▯ or ▷
Play in slow motion	◀I SLOW or I▶ SLOW. To return to Continuous Play mode, press ▷.
Go/back to the next/preceding chapter in Continuous Play mode	⏮/⏭
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.

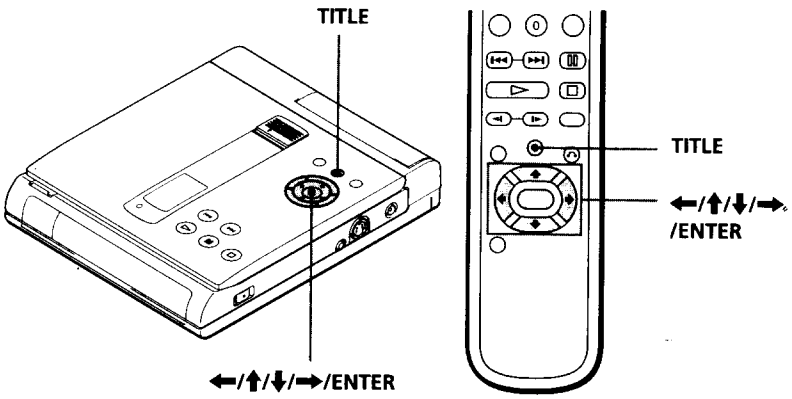
To	Press
Quickly locate a point while monitoring the picture (Search)	⏮ / ⏭ and hold down until you find the point. (There is no sound during Search mode.)

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 ." Linkwise, "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 ←/↑/↓/→ to select the title you want to play.

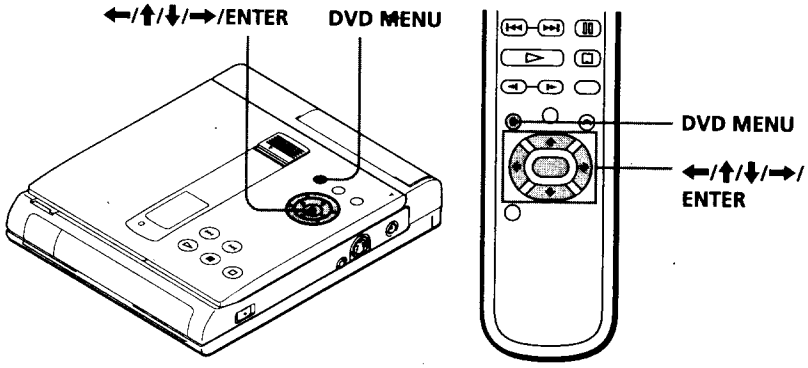
(Depending on the DVD VIDEO, you may be able to use the number buttons to select the title.)

3 Press ENTER.

The player 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 53).

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.

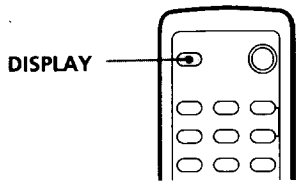
What is angle?
See page 44.

What is language for the sound and sub-titles?
See pages 54 and 55.

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 player and information about the disc using the on-screen display on the TV screen.

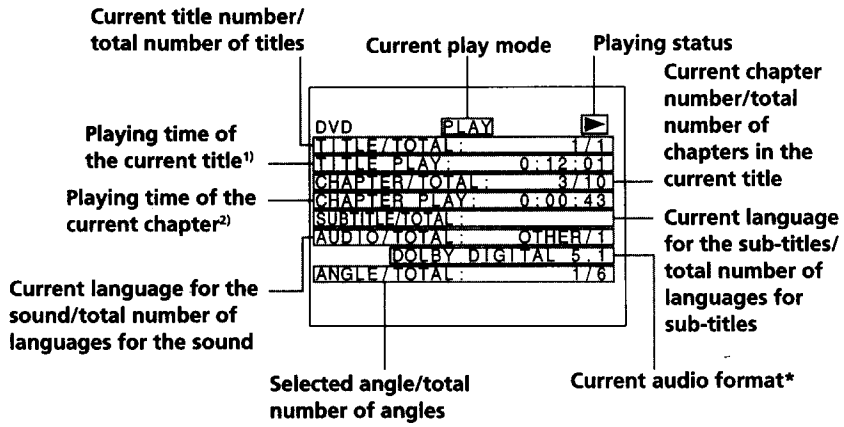


Press DISPLAY.

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

On-screen display 1
↓
On-screen display 2
↓
On-screen display off

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



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

[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.

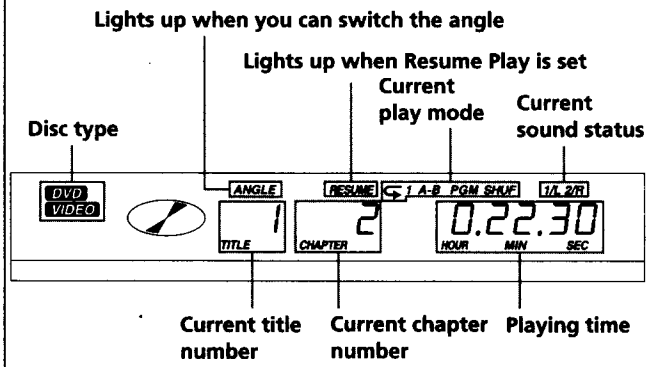
[2] **The contents of the display change according to the on-screen display setting:**
- When "On-screen display 1" is selected, the playing time of the current chapter is displayed.
- When "On-screen display 2" is selected, the remaining time of the current chapter is displayed.

■ Display information of the on-screen display off mode

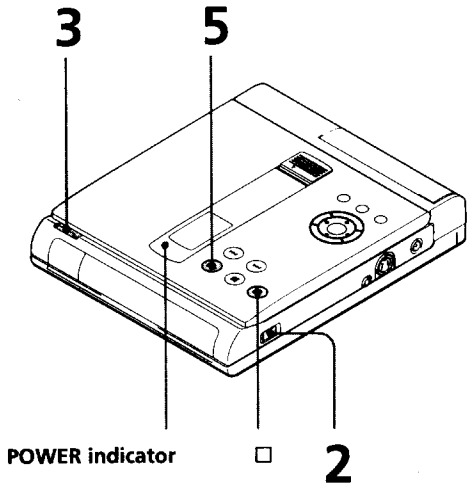
No information concerning on-screen display is displayed. (Other messages, etc., will be displayed.)

Using the front panel display

■ Display information while playing a disc



Playing a CD/VIDEO CD



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

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 player.

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

2 Press POWER to turn on the player.

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.

fter doing Step 5

ıe menu screen may ›pear on the TV screen ;pending on the VIDEO D. You can play the disc .teractively following the ıstructions on the menu :reen. (PBC Playback, ›e page 26.)

otes

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 player or the remote for more than 30 minutes when using the AC power adapter (10 minutes when using the optional battery pack).

Refer to the instructions supplied with your disc.

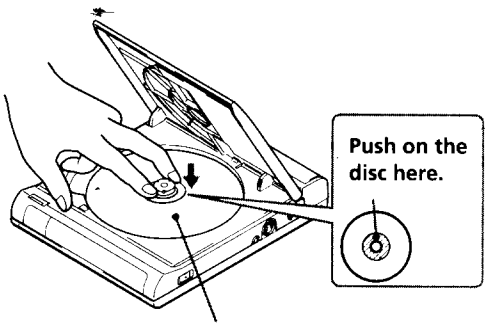
When starting playback

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 ▷.

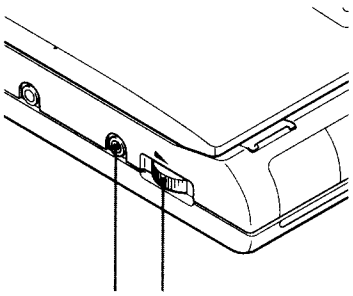
The player starts playback (Continuous Play). Adjust the volume on the TV or the amplifier.

To stop playback

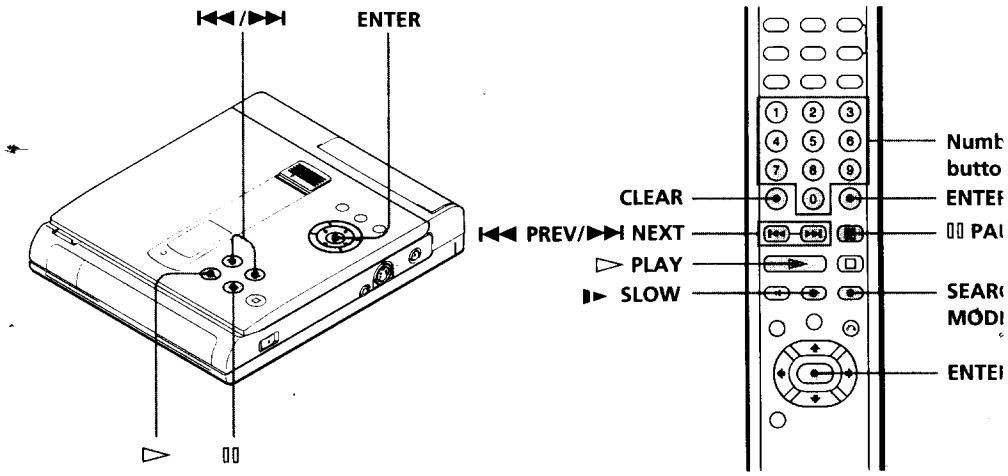
Press □.

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**



What are track, index, and scene?
See page 7.

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	⏸
Resume playback after pause	⏸ or ▷
Play in slow motion[1] (VIDEO CD only)	I▶ SLOW (forward way only). To return to Continuous Play mode, press ▷.
Go/back to the next/preceding track 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.
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

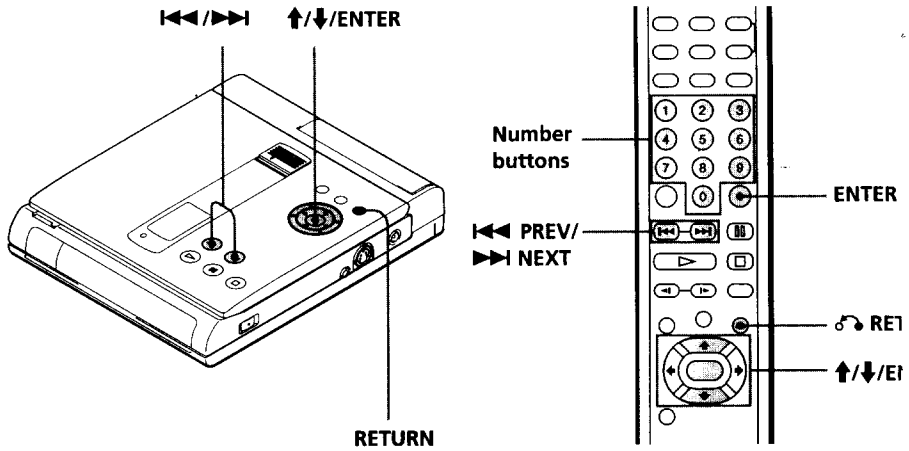
Press CLEAR, then the correct number button.

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 player, use the number buttons, ENTER, ⏮, ⏭, ↶ RETURN, and ↑/↓ 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 22.
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 ▷.

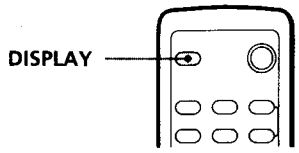
"PLAY WITHOUT PBC" appears on the TV screen and the player starts Continuous Play. You cannot display still pictures such as a menu screen.

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 player and the information about the disc using the on-screen display on the TV screen.



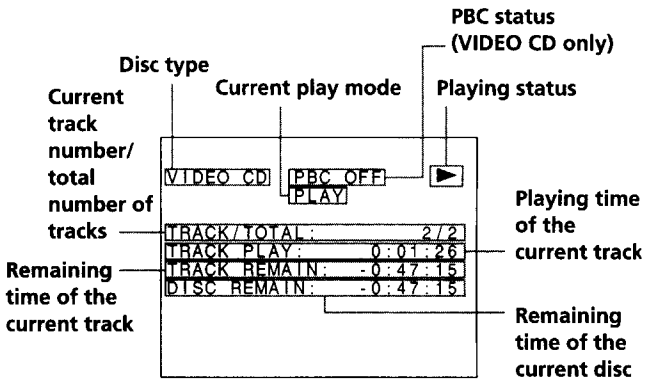
Press DISPLAY.

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

On-screen display on ⟷ On-screen display off

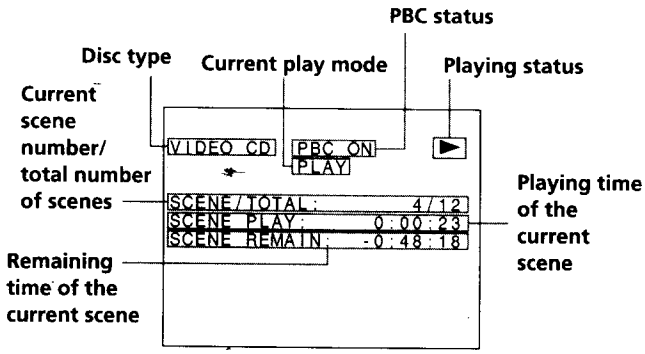
■ Display information of the on-screen display on mode

- During Continuous Play mode



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

• During PBC Playback (VIDEO CD only)

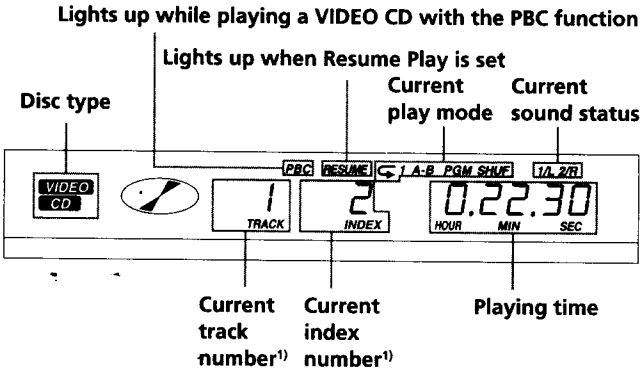


■ **Display information of the on-screen display off mode**

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

Using the front panel display

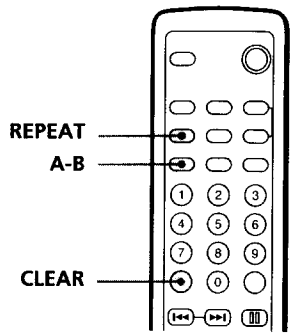
■ **Display information while playing a disc**



[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.



Repeating all the tracks on a disc

VIDEO CD CD

In Shuffle or Program Play mode, the player 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 player repeats the tracks as follows:

DISC REPEAT

Notes

- The player 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.

When the disc is played in	The player repeats
Continuous Play (page 22)	All the tracks in the recorded order
Shuffle Play (page 35)	All the tracks in random order every time repeat
Program Play (page 36)	Programmed tracks

To cancel Repeat Play

Press REPEAT.

Note

The player reverts to Continuous Play the next time playback starts whenever you;
- open the disc cover.
- turn the power off.
- stop playback in resume off.

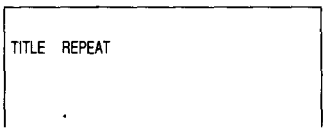
Repeating the current title or chapter

DVD

In Continuous Play mode (page 14), 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 player 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 player repeats the current chapter.

To cancel repeating the current title or chapter

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

Notes

- The player 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 VIDEO CD CD

In Continuous Play mode (page 22), 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 player repeats the current track.

```
TRACK  REPEAT
```

To cancel repeating the current track

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

Notes

- The player 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 Program 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) DVD VIDEO CD CD

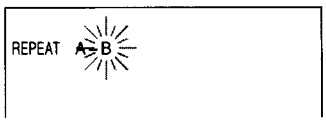
You can play a specific portion of a title / chapter / track repeatedly. This is useful, for example when you want to memorize lyrics.

During PBC Playback of VIDEO CDs (page 26), 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.

Note

You cannot use Track Repeat with A-B Repeat.

Using Repeat Play with other play modes VIDEO CD CD

You can use Repeat Play with Program Play (page 36) or Shuffle Play (page 35). For example, when you use Repeat Play with Shuffle Play, Shuffle Play plays repeatedly. When you use Repeat Play with Program Play, you can play the programed tracks you want repeatedly.

Playing in random order (Shuffle Play) VIDEO CD CD

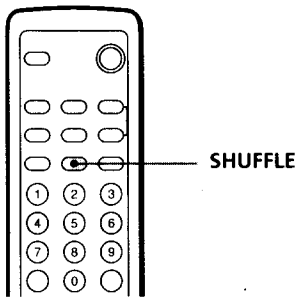
The unit can perform Repeat Play and Shuffle Play together

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

Notes

- The player 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 player "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.

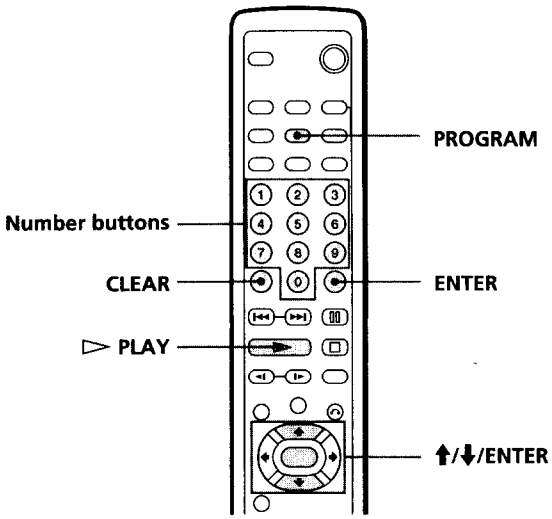
SHUFFLE

To cancel Shuffle Play

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

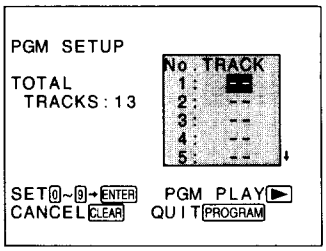
Creating your own program (Program Play) VIDEO CD CD

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



1 Press PROGRAM.

"PGM SETUP" appears on the TV screen.



The program remains even after the Program Play ends

When you press ▷ PLAY, you can play the same program again.

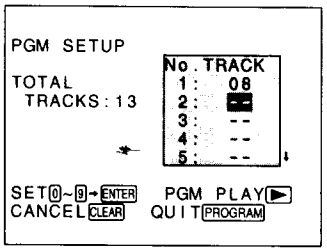
The unit can perform Repeat Play and Programme Play together

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

Notes

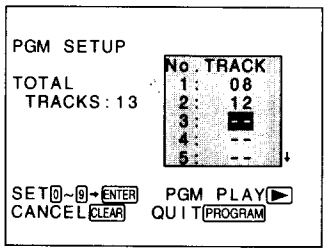
- The number of tracks displayed is that of the tracks recorded on a disc.
- The program is cancelled and Continuous Play starts the next time playback starts when you;
  - open the disc cover.
  - turn the power off.
  - stop playback in resume off.
- You may not be able to do Program Play during PBC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

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



3 To program other tracks, repeat Step 2.

The programmed tracks are displayed from 2 in order.



4 Press ▷ PLAY.

The programmed tracks start in order.

To cancel Program Play

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

To cancel programming midway

Press PROGRAM.

To change programming

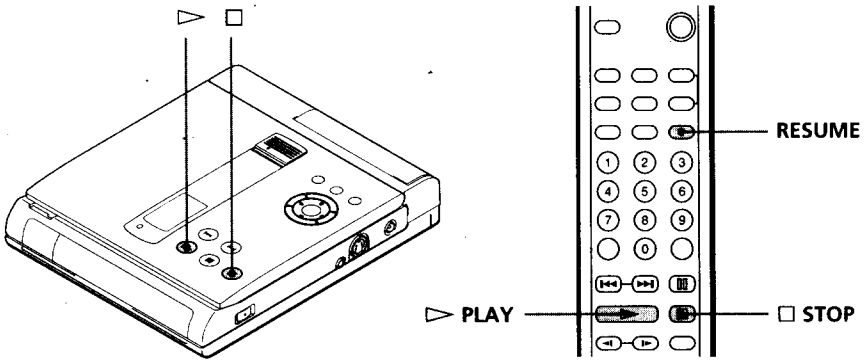
In Step 3, select the program number of the track you want to change using the ↑/↓ buttons, then press CLEAR. Follow Step 2 for new programming.

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) DVD VIDEO CD CD

The player 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 player 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 player starts playback from the point you stopped the disc in Step 2.

To play from the beginning of the disc

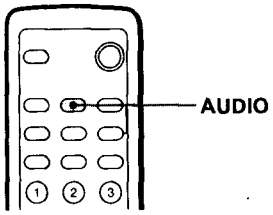
When "RESUME" appears in the front panel display during stop playback, press RESUME to turn off "RESUME," then press ▷.

Notes

- You may not do Resume Play depending on the DVD VIDEO.
- Depending on where you stopped the disc, the player 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

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 → .....

AUDIO 1 : ENGLISH

■When playing a VIDEO CD or CD

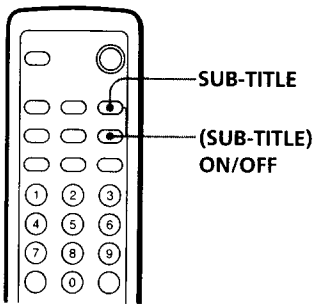
Indicator in the front panel display	You will hear
1/L	The sound of the left channel
2/R	The sound of the right channel
1/L 2/R	The standard stereo sound

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 player 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.



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

- 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.

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:

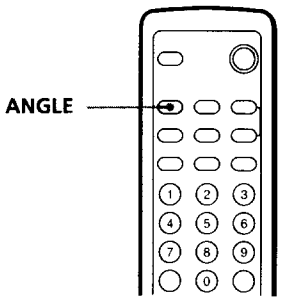
SUBTITLE 1 → SUBTITLE 2 → ... → AUDIO FOLLOW *

```
SUBTITLE   1:ENGLISH
```

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

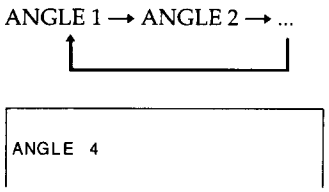
Changing the angles

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:



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

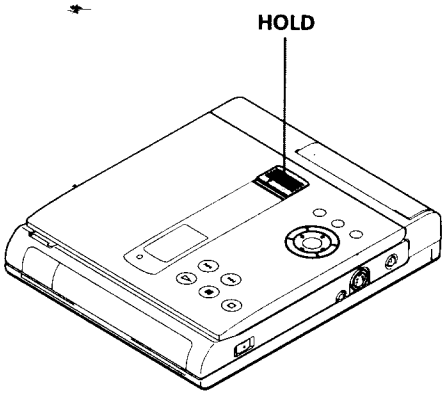
While playing a DVD VIDEO, press ANGLE when "ANGLE" is not displayed in the front panel display. When you reach the available position to change the angle, the angle is changed automatically.

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.

Preventing accidental pressing of the buttons

You can prevent accidental pressing of the buttons on this player (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.

Using the rechargeable battery pack

Note
NP-F530 and NP-F550 are not compatible.

You can use headphones (not supplied) and a rechargeable battery pack (not supplied) to enjoy the player indoors or outdoors.

See below for compatible batteries.

Compatible battery pack

See below for a list of compatible battery packs, and the corresponded playing time and charging time.

Battery life

unit (approx.): hour

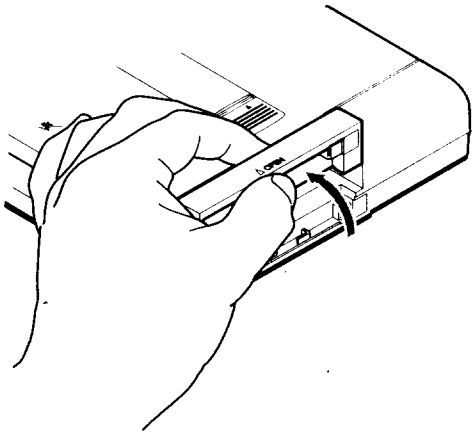
Battery pack	Playing time with		
	DVD VIDEO	VIDEO CD	Audio CD
NP-F730	2.0	3.0	2.8
F750	2.3	3.4	3.2
F930	3.3	4.8	4.5
F950	3.6	5.2	4.9

Charging time

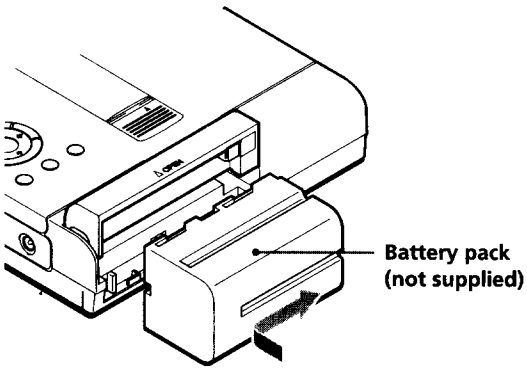
Battery pack	Charging time (Fully charged)
NP-F730	6.5
F750	7.0
F930	10.0
F950	11.0

Attaching the battery pack

1 Open the battery cover until the click sounds.



2 Attach the battery pack.



To prevent accidental pressing of the buttons

Turn the power off during the attachment.

Notes

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

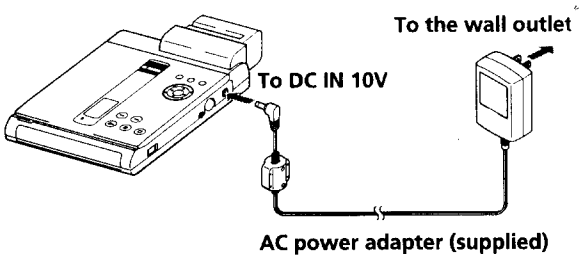
Recharging the battery pack

After attaching the battery pack, connect the AC power adapter, then recharge the battery pack. (When using a recharged battery pack, the AC power adapter is not necessary.)

1 Attach the battery pack to the player.

2 Connect the AC power adapter to the player and plug into the wall outlet.

When charging starts, "CHG" appears in the front panel display.



3 Disconnect the AC power adapter from the player and pull out from the wall outlet after charging.

When charging is complete, "CHG" disappears from the front panel display.

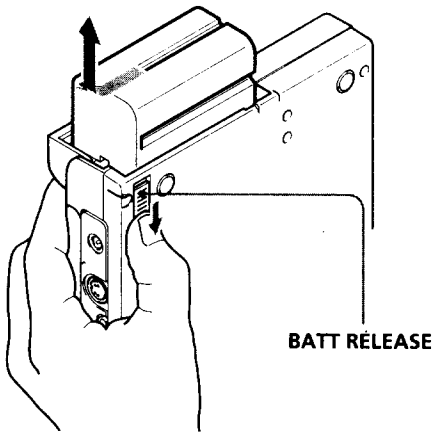
When to recharge the battery pack

When the battery power becomes weak, "▭" appears on the TV screen and in the front panel display while using the player. If you continue to use the player while "▭" is displayed, eventually the player will stop working. Connect the AC power adapter to start recharging the battery pack.

Detaching the battery pack

Slide BATT RELEASE to detach the battery pack.

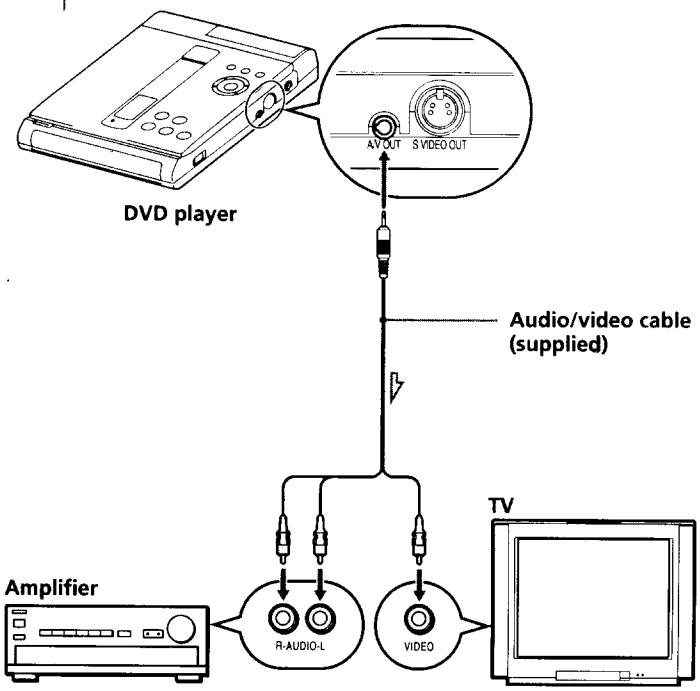
Be careful not to drop the battery pack.



Using the audio amplifier

Connecting to the audio amplifier

Connect the TV and the amplifier using the audio/video cable (supplied).



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

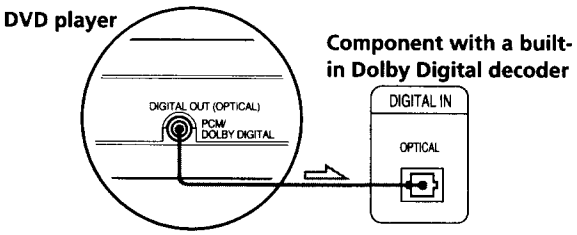
Note
Refer to the instructions supplied with the component to be connected.

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

Connect the component via the PCM/DOLBY DIGITAL connector using an optical digital cable (not supplied). When the component with a built-in Dolby Digital decoder is connected, the player plays DVD VIDEOs with sound recorded in Dolby Digital (AC-3) format which produces the effect of being in a movie theater or a concert hall.

When you play a DVD VIDEO, set "DIGITAL OUT" in "INITIAL SETUP" to "DOLBY DIGITAL" (page 56).

Insert the plug firmly.



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

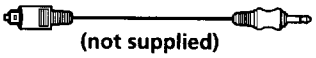
This player can be connected to an optional MD unit. Before making a digital recording, be sure that "CD" appears in the front panel display after turning this player on or closing the disc cover. Otherwise, the track numbers may not be recorded correctly.

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

Connect the component via the PCM/DOLBY DIGITAL connector using an optical digital cable (not supplied).

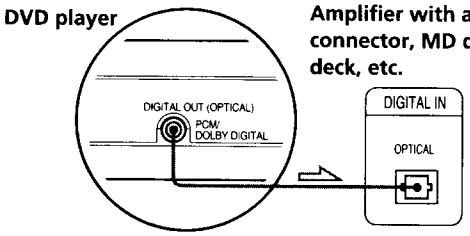
When you play a DVD VIDEO, set "DIGITAL OUT" in "INITIAL SETUP" to "D-PCM" (page 56).

Optical digital cable



(not supplied)

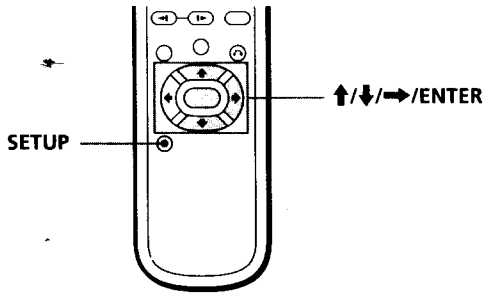
Insert the plug firmly.



When you make the connections above, do not set "DIGITAL OUT" in "INITIAL SETUP" to "DOLBY DIGITAL." If you do, a loud noise will suddenly come out from the speakers, affecting your ears or causing the speakers to be damaged.

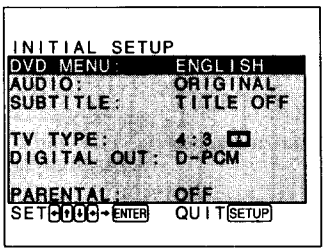
Basic settings (INITIAL SETUP)

You can make all the necessary settings for setup and connections for this player using the INITIAL SETUP menu.

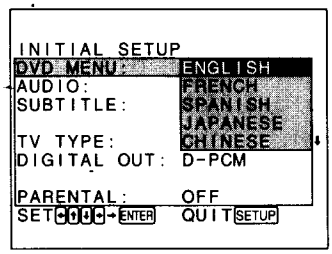


1 Press SETUP during stop playback.

The INITIAL SETUP menu appears on the TV screen.



2 Select the item using ↑/↓, then press → or ENTER.



3 Select the setting using ↑/↓, then press ENTER.

4 Press SETUP.

To cancel the Initial Setup midway

Press SETUP.

Note

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

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

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

INITIAL SETUP items

Default settings are underlined.

■DVD MENU

Switches the language for the DVD menu recorded on the DVD VIDEO.

- ENGLISH
- FRENCH
- SPANISH
- JAPANESE
- CHINESE
- KOREAN
- OTHER→

When you select "OTHER→," select and enter the language code from the list using the number buttons (page 78).

■AUDIO

Switches the language for the sound recorded on the DVD VIDEO.

- ORIGINAL

  The original language of the disc has playing priority.
- ENGLISH
- FRENCH
- SPANISH
- JAPANESE
- CHINESE
- KOREAN
- OTHER→

When you select "OTHER→," select and enter the language code from the list using the number buttons (page 78).

Notes

- You cannot use the sub-titles with some DVD VIDEOs on which sub-titles are not recorded.
- Depending on the DVD VIDEO, you may not be able to change the sub-titles 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.

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 5).

■SUBTITLE

Switches the language for the sub-title recorded on the DVD VIDEO.

- TITLE OFF
- AU. FOLLOW
- ENGLISH
- FRENCH
- SPANISH
- JAPANESE
- CHINESE
- KOREAN
- OTHER→

When you select "OTHER→," select and enter the language code from the list using the number buttons (page 78).

■TV TYPE

Selects the aspect ratio of the TV to be connected.

- 4:3 (LETTER BOX)

  When you connect a normal TV to the player.

  When you play a wide picture recorded on a DVD VIDEO, the picture is displayed with bands across the upper and lower portions of the screen.

- 4:3 (PAN SCAN)

  When you connect a normal TV to the player.

  When you play a wide picture recorded on a DVD VIDEO, a portion of the picture is automatically cut off from the left and right sides of the image.

- 16:9

  When you connect a wide-screen TV to the player.

Note
Select the setting 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.

■DIGITAL OUT

Switches the outputting methods of audio signals from the PCM/DOLBY DIGITAL connector on the side panel of the player.

- D-PCM (Downmix PCM)

  When the player is connected to an audio component without a built-in Dolby Digital (AC-3) decoder.

  When you play Dolby Digital (AC-3) sound tracks, the output audio signals are mixed down to 2 channels.

- DOLBY DIGITAL

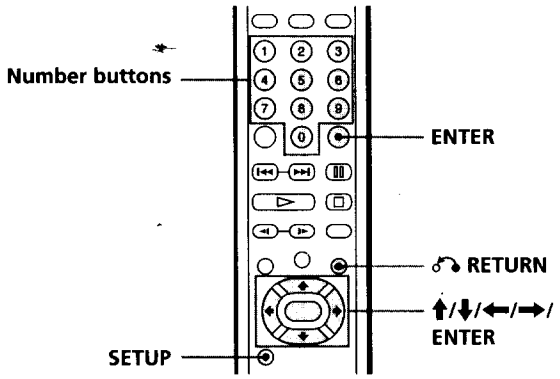
  When the player is connected to an audio component with a built-in Dolby Digital (AC-3) decoder.

■PARENTAL CONTROL

Set a password and playback limitation level when you play DVD VIDEOs with playback limitation for children. For details, see "Limiting playback by children (Parental Control)" on the next page.

Limiting playback by children (Parental Control) DVD

Playing some DVD VIDEOs can be limited depending on the age of users. The "Parental Control" function allows you to set a playback limitation level.



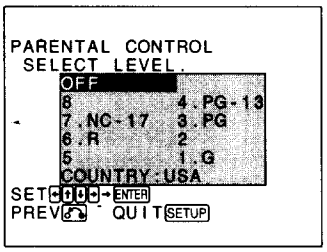
Setting the Parental Control

1 Press SETUP during stop playback.

The INITIAL SETUP menu appears on the TV screen.

2 Select "PARENTAL" using ↑/↓, then press → or ENTER.

The PARENTAL CONTROL menu appears.



(continued)

3 Select the level using ←/↑/↓/→, then press ENTER.

As the number of the level gets smaller, the restriction gets more severe.

The display for entering a password appears.

```
PARENTAL CONTROL

 LEVEL2 IS SET.
 TO LOCK, ENTRY PASSWORD.

      PASSWORD : ■---

SET 0~9→ENTER   CANCEL CLEAR
PREV↶    QUIT SETUP
```

4 Enter a four-digit number using number buttons, then press ENTER.

The display for confirming a password appears.

```
PARENTAL CONTROL

 PASSWORD IS SET.
 NEED TO ENTER PASSWORD
 TO CHANGE/RESET.

      PASSWORD : 1234

SET ENTER
PREV↶    QUIT SETUP
```

5 Press ENTER.

The Parental Control level is locked, and the INITIAL SETUP menu appears.

To go back to the previous menu to change the setting

Press ↶ RETURN.

To return to the normal screen

Press SETUP.

To change the country for the Parental Control

Select the country setting in Step 2, then press ENTER.

Notes

- When you play DVD VIDEOs without the Parental Control function, playback cannot be limited on this player.
- 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

1 Press SETUP during stop playback.

The INITIAL SETUP menu appears on the TV screen.

2 Select "PARENTAL" using ↑/↓, then press → or ENTER.

The display for confirming the password appears.

```
PARENTAL CONTROL
 ENTRY PASSWORD.

      PASSWORD : ■---

SET 0~9→ENTER   CANCEL CLEAR
PREV      QUIT SETUP
```

3 Enter the four-digit number you set using number buttons, then press ENTER.

The display for setting the level appears.

4 Select the level using ←/↑/↓/→, then press ENTER.

As the number of the level gets smaller, the restriction gets more severe.

When playing a disc without the Parental Control function, select "OFF" using ←/↑/↓/→, then press ENTER.

5 Confirm the password, then press ENTER.

If you want to change your password entered in Step 3, enter the new password using the number buttons, then press ENTER.

The display for confirming the password appears.

6 Press SETUP.

The Parental Control level is locked.

If you forget your password

Enter "84173" as the password in Step 3.

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 player 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 motorized 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 wall outlet, even if the player itself has been turned off.
- If you are not going to use the player for a long time, be sure to disconnect the player from the wall outlet 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 player in a location where it is;

- On pedestal or unstable place
- On the rug or carpet
- On unleveled 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 antennas may also adversely effect picture and sound quality. In this case, use an outdoor antenna instead.)

On operation

- If the player 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 player. Should this occur, the player may not operate properly.
  In this case, remove the disc and leave the player turned on for about 30 minutes until the moisture evaporates. If the player 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 player. It may cause a malfunction.
- Use this player 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.

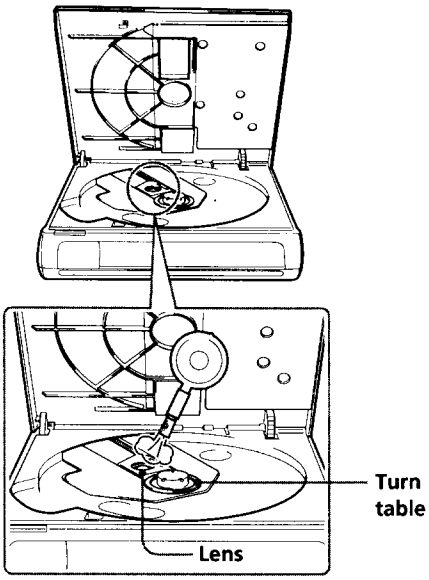
On cleaning the cabinet

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.

(continued)

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

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

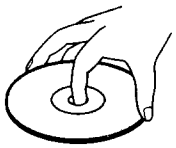
IMPORTANT NOTICE

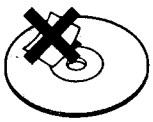
Caution: The enclosed DVD Player is capable of holding a still video image or Menu image on your television screen indefinitely. If you leave the still video image or Menu image displayed on your TV for an extended period of time, you risk permanent damage to your television screen. Projection televisions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





- 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 player.

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 center 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 Player
Laser
Semiconductor laser
Signal format system
NTSC color system, Macrovision

Disc

Compatible discs
- DVD VIDEO
- VIDEO CD
- AUDIO CD (CD-DA)
- CD-R

Disc diameter
12 cm (4 3/4 inch), 8 cm (3 inch)

Laser Diode Properties

DVD player
Material
AlGaInP
Wavelength
650 nm
Emission Duration
Continuous
Laser Output
Less than 1000 μW
* This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

CD player
Material
GaAlAs
Wavelength
780 nm
Emission Duration
Continuous
Laser Output
Less than 44.6 μW
* This output is the value measured at a distance of 200 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/ 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 120 V, 60 Hz
- Battery pack (not supplied)

Power consumption

AC 120 V, 60 Hz, 0.30 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) (player 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

Supplied accessories

See page 9.

Optional accessories

- Battery pack
  NP-F750SP/F950
- AC battery changer
  AC-V700
- DC battery changer
  DC-V700
- Optical digital cable
  POC-15B/15AB
- Headphones
  MDR-605LB

Design and specifications are subject to change without notice

Troubleshooting

If you experience any of the following difficulties while using the player, use this troubleshooting guide to help you remedy the problem. Should any problem persist, consult your nearest Sony dealer.

The power is not turned on.

- ➔If the POWER indicator is not lit, check that the AC power adapter is connected securely. When using the battery pack, check the consumption.
- ➔Make sure you use the supplied AC power adapter. (Do not use any other AC power adapter.)
- ➔Check that the HOLD switch is set to off.
- ➔Disconnect the AC power adapter from this player and the wall outlet for more than one minute. Then connect the AC power adapter and turn the power on again. If the power is still not turned on, disconnect the AC power adapter and the battery pack and refer to your nearest Sony dealer.

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

- ➔When using the battery pack, the AC power adapter is not connected to the wall outlet even if the AC power adapter is connected to the player. Disconnect the AC power adapter from the player.
- ➔Check that the AC power adapter is connected to the wall outlet, then disconnect from this player and connect again.

There is no picture.

- ➔Check that the player is connected securely.
- ➔The video connecting cable is damaged. Replace it with a new one.
- ➔Make sure you connect the player to the video input connector on the TV (page 11).
- ➔Make sure you turn on the TV.
- ➔Make sure you select the video input on the TV so that you can view the pictures from the player.

There is no sound.

- ➔Check that the player is connected securely.
- ➔The audio connecting cable is damaged. Replace it with a new one.
- ➔Make sure you connect the player to the audio input connectors on the amplifier (page 50).
- ➔Make sure you turn on the TV or the amplifier.
- ➔Make sure you select the appropriate position on the amplifier so that you can listen to the sound from the player.
- ➔The player is in pause mode or in Slow-motion Play mode. Press ▷ to return to Continuous Play mode.
- ➔The player is in Search mode. Press ▷ to return to Continuous Play mode.
- ➔When you connect the player to an amplifier with DIGITAL OUT, set "DIGITAL OUT" in "INITIAL SETUP" correctly (pages 51, 52).
- ➔Check that the headphones plug connected to the headphones jack is firmly connected to this player.
- ➔Check that the VOL dial is not set to "0."

The remote does not function.

→Remove any obstacles between the remote and the player.
→Use the remote near the player.
→Point the remote at the remote sensor ■ on the player.
→Replace all the batteries in the remote with new ones if they are weak.
→Make sure you are using the supplied remote.

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

→Do not connect the player to the VCR. Connect the player directly to the TV (page 11).

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

→This player features a copy protection function developed by Macrovision. Copy protection signals are recorded on some DVD VIDEOs. When you play and record the pictures of these discs on a VCR, picture noise appears.

Sound or picture noise occurs.

→Clean the disc.
→Connect the audio plug of the connecting cable firmly.
→This player features a copy protection function developed by Macrovision. Copy protection signals are recorded on some DVD VIDEOs. When you play these discs, picture noise may appear on some TVs and projectors.
→Check that this player is placed in a horizontal position.

The disc does not play.

→There is no disc inside. Insert a disc.
→Insert the disc with the playback side facing down correctly.
→Insert the disc correctly (pages 15, 23).
→Clean the disc.
→Do not insert a disc which the player cannot play (page 4).
→Check the region code of the DVD VIDEO (page 4).
→Moisture has condensed inside the player. Remove the disc and leave the player turned on for about one hour. Then turn the power off and then on again, and start playback (page 61).
→Check that this player is placed in a horizontal position.
→The Parental Control function is set (page 57).

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

→Resume Play is set. Press RESUME on the remote during stop playback. After "RESUME" disappears in the front panel display, start playback (page 39).
→A title menu, a DVD menu, or a PBC menu automatically appears on the TV screen (pages 18, 19, 26).

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

→The Parental Control function is set (page 57).

The player starts playing automatically.

→The DVD VIDEO features the auto playback function.

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

→Depending on the disc, you may not be able to do some of the operations. (Refer to the instructions supplied with the discs.)

(continued)

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

→Depending on the DVD VIDEO or VIDEO CD, you may not be able to do these functions.

The disc rotation speed is changed.

→The disc rotation speed may differ, depending on the disc.

→When the optional digital cable is connected, the disc rotation speed may be changed.

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

→Multilingual sound is not recorded on the DVD VIDEO.

→Changing the language for the sound is prohibited on the DVD VIDEO.

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

→Multilingual sub-titles are not recorded on the DVD VIDEO.

→Changing the language for the sub-titles is prohibited on the DVD VIDEO.

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

→Turning the sub-titles off is prohibited on the DVD VIDEO.

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

→Multi-angles are not recorded on the DVD VIDEO.

→Change the angles when "ANGLE" appears in the front panel display (page 44).

→Changing the angles is prohibited on the DVD VIDEO.

The Parental Control function does not work.

→Parental Control is not recorded on the DVD VIDEO.

→The country setting on the Parental Control level menu is not correct. Set the country (page 59) and refer to the instruction of the DVD VIDEO.

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

→The aspect ratio is fixed on your DVD VIDEO (page 5).

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

→The VIDEO CD does not feature PBC functions.

→Follow the correct operating procedure. (Also refer to the instructions supplied with the VIDEO CD.)

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

→"1/L" or "2/R" appears in the front panel display.
On the remote, press AUDIO CHANGE repeatedly until "1/L 2/R" appears (page 41).

The power is turned off automatically.

→The Auto Power Off function is activated. (If you do not operate the player or the remote for more than 30 minutes while using the AC power adapter or for more than 10 minutes while using the battery pack when a disc is not being played, the power will be automatically turned off.

Indications in the front panel display are too light.

→The liquid crystal of the front panel display is already adjusted to be seen clearly from the front. It is not a malfunction if the indication appears vague when viewing from an obscure angle.

The player or the AC power adapter heats up.

→It is not a serious problem. (If the AC power adapter heats up excessively, disconnect the AC power adapter and the optional battery pack, then consult your nearest Sony dealer.)
Touching this player or the AC power adapter for a long time may cause a slight burning sensation.

Note

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

The OPEN button does not work.

→ The Hold function is on. Slide the HOLD switch to OFF.

→ The power is not supplied from the AC power adapter or the battery pack. Supply the power source or slide the MANUAL LID RELEASE switch on the rear panel in the direction of the arrow.

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

→The DVD VIDEO is unable to do the operation.

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

→ Self-diagnosis function is currently working (page 72).

Glossary

Chapter

Sections of a picture or a music piece on a DVD VIDEO 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.

Dolby Digital (AC-3)

Digital audio compression technology that the Dolby Laboratories Corporation developed. This technology conforms to 5.1-channel surround. When connecting a component with a built-in Dolby Digital decoder, you can enjoy more real audio presence.

DVD

A disc that contains up to 8 hours of moving pictures even though its diameter is the same as a CD.

The data capacity of a single-layer and single-sided DVD, at 4.7 GB (Giga Byte), is 7 times that of a CD. Furthermore, the data capacity of a dual-layer and single-sided DVD is 8.5 GB, a single-layer and double-sided DVD 9.4 GB, and a dual-layer and double-sided DVD 17 GB.

DVD VIDEO

A DVD recorded with moving pictures. On a DVD VIDEO, the picture data uses the MPEG 2 format, one of the worldwide standards of digital compression technology. The picture data is compressed to about 1/40 of its original size. The DVD also uses the variable rate coding technology that changes the data to be allocated according to the status of the picture. The audio data is recorded in Dolby Digital (AC-3) as well as in PCM, allowing you to enjoy more real audio presence.

Furthermore, various advanced functions such as the multi-angle, multilingual, and Parental Control functions are provided with DVD VIDEOs.

Multi-angle function

Various angles, or viewpoints of the video camera, for a scene are recorded on some DVD VIDEOs.

Multilingual function

Several languages for the sound or sub-titles in a picture are recorded on some DVD VIDEOs.

Parental Control

A function of the DVD VIDEO for playback limitation of the disc by the age of the users according to the limitation level in each country. The limitation varies from disc to disc; when it is activated, playback is completely prohibited, or violent scenes are skipped or replaced with other scenes etc.

Playback Control (PBC)

Signals encoded on VIDEO CDs (Version 2.0) to control playback.

By using menu screens recorded on VIDEO CDs with PBC functions, you can enjoy playing simple interactive programs, programs with search functions, and so on.

Title

The longer sections of a picture or a music piece on a DVD VIDEO; a movie, etc., or a picture piece on a video software or an album, etc., or a music piece on an audio software. Each title is assigned a title number enabling you to locate the title you want.

Track

Sections of a picture or a music piece on a CD or VIDEO CD. Each track is assigned a track number enabling you to locate the track you want.

VIDEO CD

A compact disc that contains moving pictures.

The picture data uses the MPEG 1 format, one of the worldwide standards of digital compression technology. The picture data is compressed to about 1/140 of its original size. Consequently, a 12 cm VIDEO CD can contain up to 74 minutes of moving pictures.

VIDEO CDs also contain compact audio data. Sounds outside the range of human hearing are compressed while the sounds we can hear are not compressed. VIDEO CDs can hold 6 times the audio information of conventional audio CDs.

There are 2 versions of VIDEO CDs.

- Version 1.1: You can play only moving pictures and sounds.
- Version 2.0: You can play high-resolution still pictures and enjoy PBC functions.

This player conforms to both versions.

Self-diagnosis function

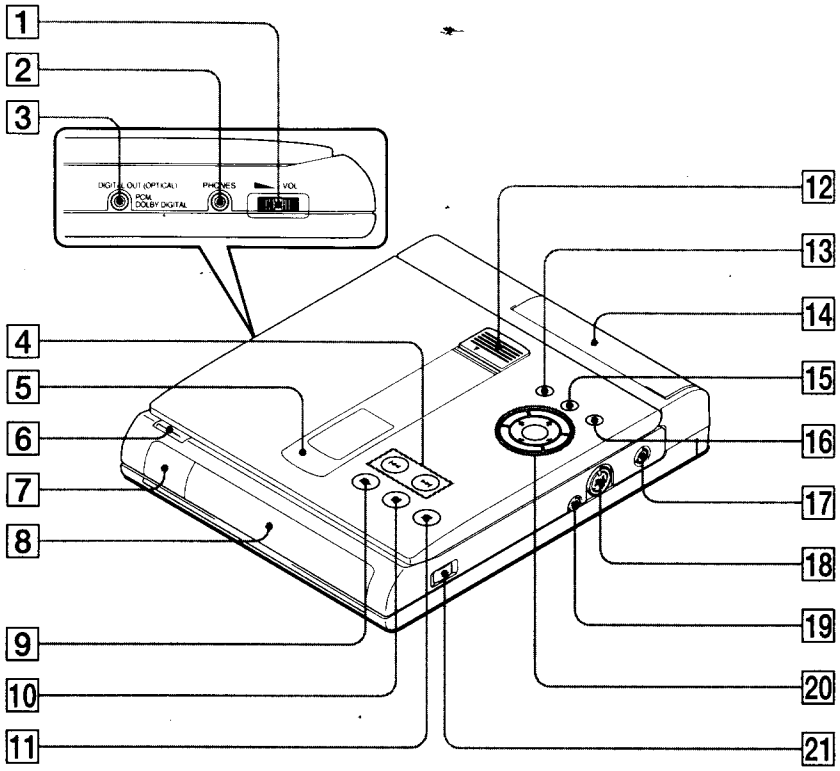
This function displays the player's condition with three or five digits (a combination of the alphabet and numbers) on the TV screen or in the front panel display. If this occurs, check the following code chart.

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 powe adapter firmly. If the code number is still displayed, see page 66.
C13	• The disc is dirty. • The player cannot play the disc.	• Clean the disc with a soft cloth (page 63). • Make sure that the disc is compatible (page 4).
EXXXX (XXXX 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

Refer to the pages indicated in parentheses for details.

Front and side panel



1 **VOL (volume) dial (23)**
Adjusts the volume.

2 **PHONES jack (23)**
Used when connecting headphones.

3 **PCM/DOLBY DIGITAL connector (51, 52)**
Connects to an audio component using the optical digital cable.

4 **⏮/⏭ (previous/next) buttons (16, 24)**
Go back/forward to the previous/next chapter or track, or to search.

5 **POWER indicator (14, 22)**
Lights up in green when turning on the power.

(continued)

6 **OPEN button (14, 22)**
Opens the disc cover. The player does not work without connecting the AC power adapter or battery pack.

7 **■ (remote sensor) (10)**
Accepts the remote control signals.

8 **Front panel display (21, 29)**
Indicates the playing time, etc.

9 **▷ (play) button (15, 23)**
Plays back a disc.

10 **❚❚ (pause) button (16, 24)**
Pauses playing back a disc.

11 **□ (stop) button (15, 23, 39)**
Stops playing back a disc.

12 **HOLD switch (45)**
Prevents accidental pressing of the buttons.

13 **DVD MENU button (19)**
Displays the DVD menu on the TV screen to set or adjust the menu items.

14 **Battery pack connector (47)**
Connects the optional battery pack.

15 **TITLE button (18)**
Displays the title menu on the TV screen.

16 **RETURN button (26, 57)**
Returns to the preceding selection screen, etc.

17 **DC IN 10V jack (12)**
Connects the AC power adapter (supplied).

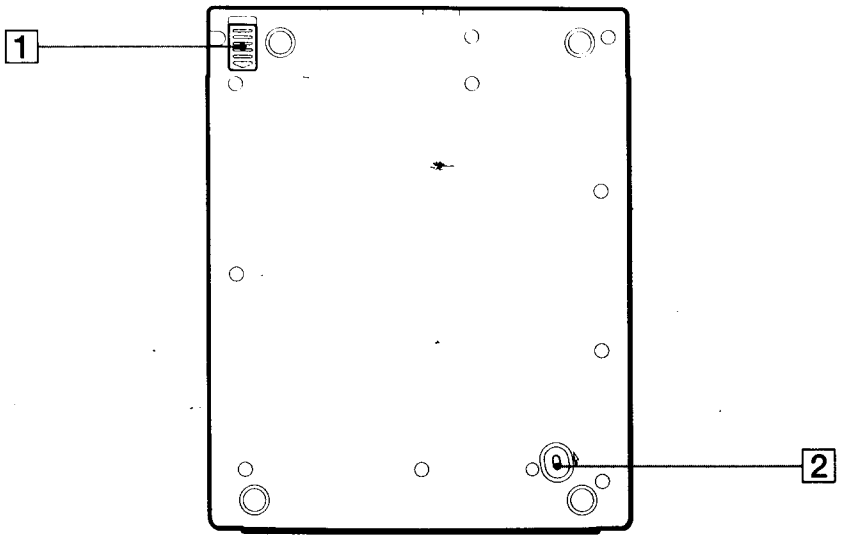
18 **S VIDEO OUT connector (11)**
Connects to the S video input connector on the TV.

19 **A/V OUT connector (11, 50)**
Connects to the audio/video input connectors on the TV or amplifier.

20 **←/↑/↓/→/ENTER buttons**
Select the items or settings.

21 **POWER button (14, 22)**
Turns the power on and off the player.

Rear Panel

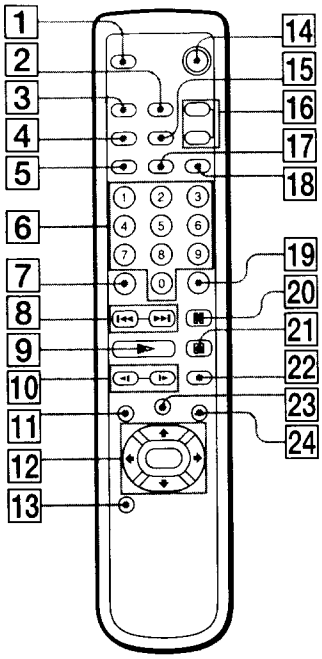


1 **BATT RELEASE switch (49)**
Removes the battery pack.

2 **MANUAL LID RELEASE switch (69)**
Opens the disc cover forcibly when the AC power adapter and the battery pack are disconnected.

(continued)

Remote



1 **DISPLAY button (20, 28)**
Displays the current playing status on the TV screen.

2 **AUDIO button (41)**
Changes the sound while playing a DVD VIDEO, VIDEO CD, or an audio CD.

3 **ANGLE button (44)**
Changes the angles when playing a DVD VIDEO.

4 **REPEAT button (30, 31, 32)**
Repeats playback.

5 **A–B buttons (33)**
Repeat a specific portion.

6 **Number buttons**
Select the items or settings.

7 **CLEAR button**
Cancels the selected item.

8 **⏮ PREV/⏭ NEXT buttons (16, 24)**
Go back/forward to the previous/next chapter or track, or to search.

9 **▷ PLAY button (15, 23)**
Plays back a disc.

10 **◁I/I▷ SLOW buttons (16, 24)**
Play a disc in slow motion.

11 **DVD MENU button (19)**
Displays the DVD menu on the TV screen to set or adjust the menu items.

12 **←/↑/↓/→/ENTER buttons**
Select the items or settings.

13 **SETUP button (53, 57)**
Sets the INITIAL SETUP.

14 **POWER button (14, 22)**
Turns the power on and off the player.

15 **PROGRAM button (36)**
Plays a disc in Program Play.

16 **SUB-TITLE, (SUB-TITLE) ON/OFF buttons (42)**
Turn the sub-titles on and off, and change the sub-title when playing a DVD VIDEO.

17 **SHUFFLE button (35)**
Plays a disc in Shuffle Play.

18 **RESUME button (39)**
Plays a disc in Resume Play.

19 **ENTER button (16, 24, 36, 57)**
Executes the items or settings.

20 **II PAUSE button (16, 24)**
Pauses playing back a disc.

21 **□ STOP button (15, 23, 39)**
Stops playing back a disc.

22 **SEARCH MODE button (16, 24)**
Sets the player in search mode (track, index, etc.)

23 **TITLE button (18)**
Displays the title menu on the TV screen.

24 **↶ RETURN button (26, 57)**
Returns to the preceding selection screen, etc.

Language code list

For details, see pages 54 and 55.

The language spellings conform to the ISO 639: 1988 (E/F) standard (December 1996).

Code	Language	Code	Language	Code	Language
1027	Afar	1150	Estonian	1283	Javanese
1028	Abkhazian	1151	Basque	1287	Georgian
1032	Afrikaans	1157	Persian	1297	Kazakh
1039	Amharic	1165	Finnish	1298	Greenlandic
1044	Arabic	1166	Fiji	1299	Cambodian
1045	Assamese	1171	Faroese	1300	Kannada
1051	Aymara	1174	French	1301	Korean
1052	Azerbaijani	1181	Frisian	1305	Kashmiri
1053	Bashkir	1183	Irish	1307	Kurdish
1057	Byelorussian	1186	Scots Gaelic	1311	Kirghiz
1059	Bulgarian	1194	Galician	1313	Latin
1060	Bihari	1196	Guarani	1326	Lingala
1061	Bislama	1203	Gujarati	1327	Laothian
1066	Bengali; Bangla	1209	Hausa	1332	Lithuanian
1067	Tibetan	1217	Hindi	1334	Latvian; Lettish
1070	Breton	1226	Croatian	1345	Malagasy
1079	Catalan	1229	Hungarian	1347	Maori
1093	Corsican	1233	Armenian	1349	Macedonian
1097	Czech	1235	Interlingua	1350	Malayalam
1103	Welsh	1239	Interlingue	1352	Mongolian
1105	Danish	1245	Inupiak	1353	Moldavian
1109	German	1248	Indonesian	1356	Marathi
1130	Bhutani	1253	Icelandic	1357	Malay
1142	Greek	1254	Italian	1358	Maltese
1144	English	1257	Hebrew	1363	Burmese
1145	Esperanto	1261	Japanese	1365	Nauru
1149	Spanish	1269	Yiddish	1369	Nepali

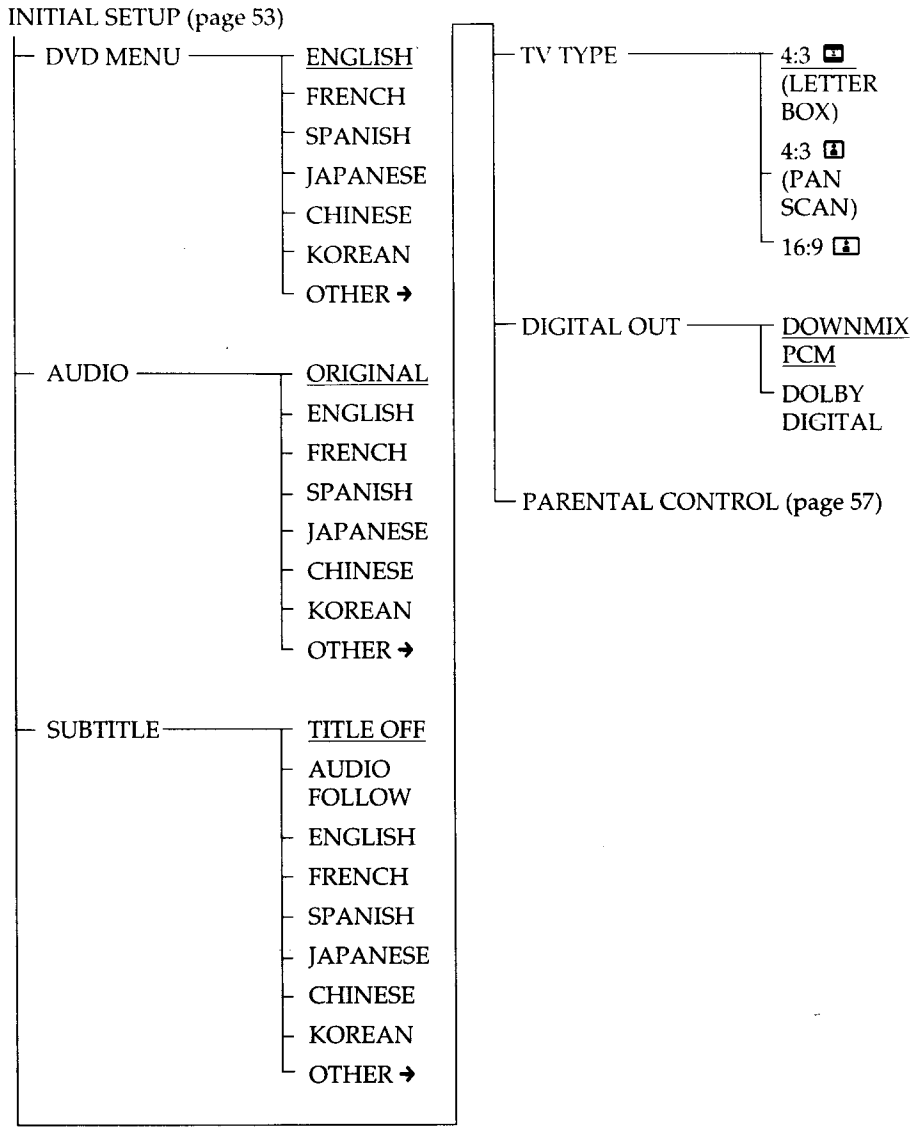
Code	Language
1376	Dutch
1379	Norwegian
1393	Occitan
1403	(Afan) Oromo
1408	Oriya
1417	Punjabi
1428	Polish
1435	Pashto; Pushto
1436	Portuguese
1463	Quechua
1481	Rhaeto-Romance
1482	Kirundi
1483	Romanian
1489	Russian
1491	Kinyarwanda
1495	Sanskrit
1498	Sindhi
1501	Sangho
1502	Serbo-Croatian

Code	Language
1503	Singhalese
1505	Slovak
1506	Slovenian
1507	Samoan
1508	Shona
1509	Somali
1511	Albanian
1512	Serbian
1513	Siswati
1514	Sesotho
1515	Sundanese
1516	Swedish
1517	Swahili
1521	Tamil
1525	Telugu
1527	Tajik
1528	Thai
1529	Tigrinya
1531	Turkmen

Code	Language
1532	Tagalog
1534	Setswana
1535	Tonga
1538	Turkish
1539	Tsonga
1540	Tatar
1543	Twi
1557	Ukrainian
1564	Urdu
1572	Uzbek
1581	Vietnamese
1587	Volapük
1613	Wolof
1632	Xhosa
1665	Yoruba
1684	Chinese
1697	Zulu
1703	Not specified

INITIAL SETUP items list

Default settings are underlined.



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