

# ***CD/DVD Player***

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Operating Instructions



***DVP-C600D***

## WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture. To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

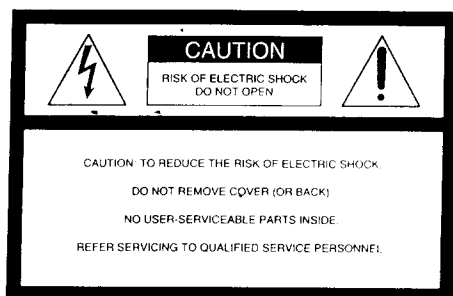
### CAUTION

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

Refer servicing to qualified personnel only.



This label is located on the left side enclosure (Laser protective housing).



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



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 rear of the unit. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. DVP-C600D

Serial No. \_\_\_\_\_

### CAUTION

You are cautioned that any change 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.

## Welcome!

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

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
## Dolby\* Digital Surround

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## About This Manual




The instructions in this manual are for model DVP-C600D.

### Conventions

- Instructions in this manual describe the controls on the player.  
You can also use the controls on the remote if they have the same or similar names as those on the player.
- The icons on the right are used in this manual:

| Icon  | Meaning  |
|---|--|
|  | Indicates that you can use only the remote to do the task. |
|  | Indicates tips and hints for making the task easier.       |
|   | Indicates the functions for DVD VIDEOS.                    |
|   | Indicates the functions for VIDEO CDs.                     |
|   | Indicates the functions for Audio CDs.                     |

## This Player Can Play the Following Discs


|           | DVD VIDEOS   |  | VIDEO CDs   |         | Audio CDs  |                     |
|-----------|--|--|---|---------|--|---------------------|
| Disc logo |  |  |  |         |  |                     |
| Contents  | Audio + Video  |  | Audio + Video   |         | Audio  |                     |
| Disc size | 12 cm  | 8 cm   | 12 cm   | 8 cm    | 12 cm  | 8 cm<br>(CD single) |
| Play time | About 4 h (for single-sided DVD)/<br>about 8 h (for double-sided DVD)              | About 80 min. (for single-sided DVD)/<br>about 160 min. (for double-sided DVD) | 74 min.   | 20 min. | 74 min.  | 20 min.             |

"DVD VIDEO" logo is a trademark.

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

### Region code of DVDs you can play on this unit

Your DVD player has a region code printed on the back of the unit and will only play DVDs that are labeled with identical region codes.

DVDs labeled  will also play on this unit.

If you try to play any other DVD, the message "Playing this disc prohibited by area limits." will appear on the TV screen.

Depending on the DVD, no region code indication may be labeled even though playing the DVD is prohibited by the area limits.



Region code

### Note on playback operations of DVDs and VIDEO CDs

Some playback operations of DVDs and VIDEO CDs may be intentionally fixed by software producers. Since this player plays DVDs 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 DVDs or VIDEO CDs.

## Terms for discs

- **Title**

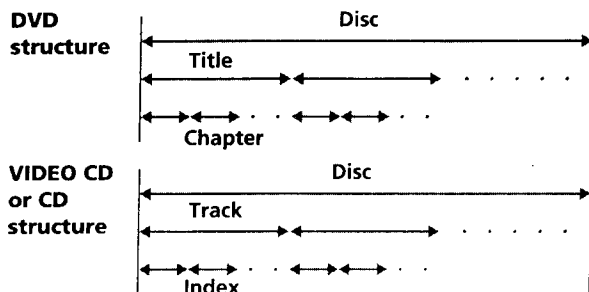
The longest sections of a picture or a music piece on a DVD; a movie, etc, for a picture piece on a video software; or an **album**, etc, for a music piece on an audio software. Each title is assigned a title number enabling you to locate the title you want.

- **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 (CD) / Video Index (VIDEO CD)**

A number that divides a track some sections to easily locate the point you want on a VIDEO CD or a CD. Depending on the disc, no indexes 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.

### Note on PBC (Playback Control) (VIDEO CDs)

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. |

### Discs that the player cannot play

The player cannot play discs other than the ones listed in the table on page 4. CD-ROMs including PHOTO CDs, data sections in CD-EXTRAS and DVD-ROMs etc. can not be played.


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

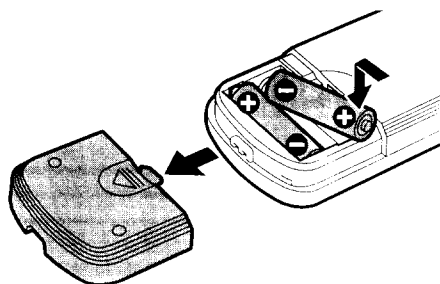
## Unpacking


Check that you have the following items:

- Audio/video/S-link connecting cord (1)
- S video cable (1)
- Remote commander (remote) RMT-D104A (1)
- Size AA (R6) batteries (2)

## Inserting batteries into the remote

You can control the player using the supplied remote. Insert two R6 (size AA) batteries by matching the + and – on the batteries. When using the remote, point it at the remote sensor  on the player.



 You can control TVs and Sony AV receivers using the supplied remote  
See page 33.

## Notes

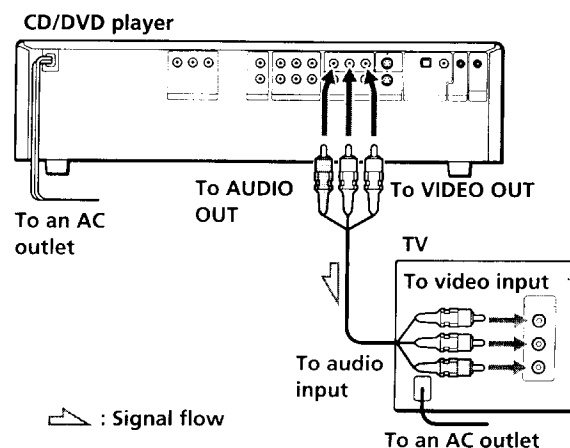
- Do not leave the remote in an extremely hot or humid place.
- Do not drop any foreign object into the remote casing, particularly when replacing the batteries.
- Do not expose the remote sensor to direct sunlight or lighting apparatuses. Doing so may cause a malfunction.
- If you will not use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

## Hooking Up the System

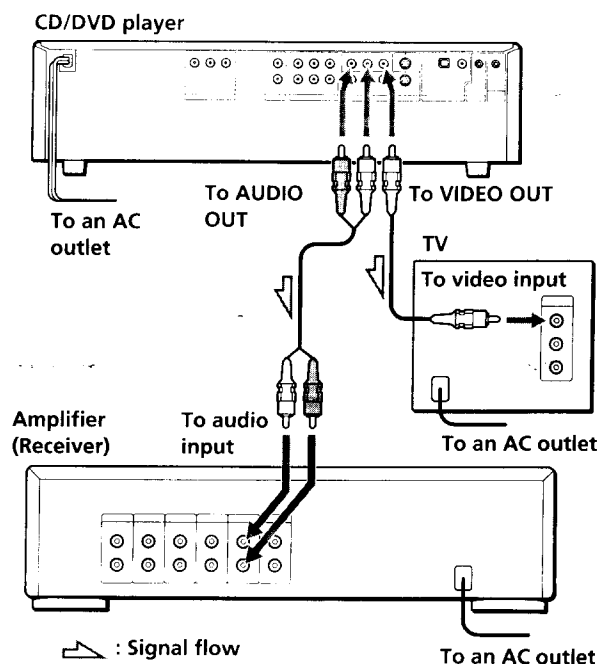
### Overview

This section describes how to hook up the CD/DVD player to a TV (with audio/video input jacks) 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.**

#### ■ To listen to the sound through TV speakers (2ch – L,R)



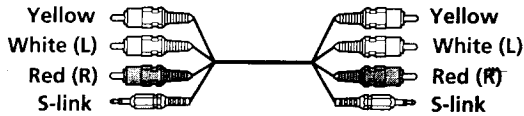
#### ■ To listen to the sound through speakers connected to an amplifier (receiver) (2ch – L,R)



#### ■ To enjoy Dolby Digital surround sound by connecting the player to an amplifier with 5.1 channel inputs See page 40.

## What cords will I need?

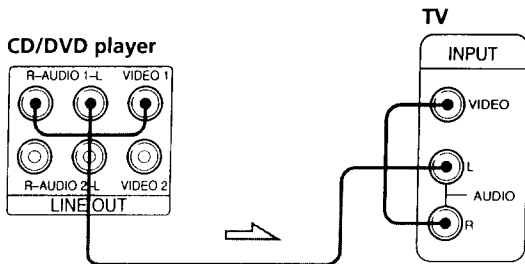
Audio/video/S-link connecting cord (supplied) (1)



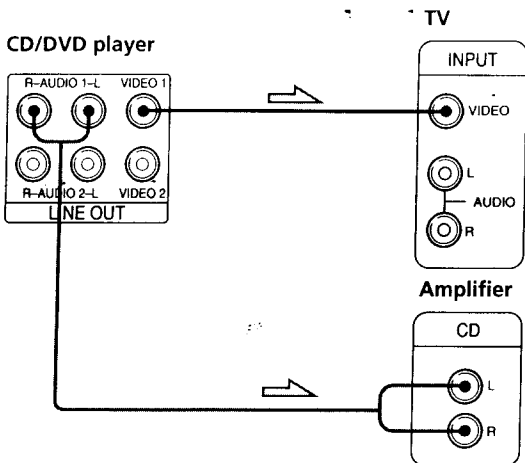
## Hookups

When connecting the cords, be sure to match the color-coded cord to the appropriate jacks 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.

### ■ To listen to the sound through TV speakers

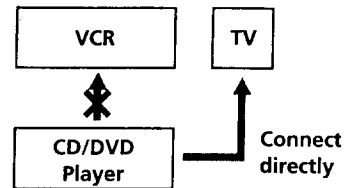


### ■ To listen to the sound through speakers connected to an amplifier



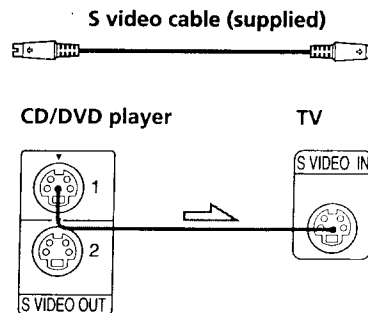
## Notes

- Do not connect this player to a video deck. If you view the pictures on your TV after making the connections shown on the right, a picture noise may appear.
- Depending on the TV or amplifier, sound distortion may occur because the audio output level is high. In this case, set "AUDIO ATT" in "INITIAL SETUP 2" to "ON" in the setup display. For details, see page 39.



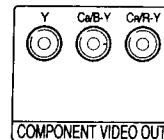
### 💡 If your TV has an S video input connector

Connect the component via the S VIDEO OUT connector using the S video cable (supplied) instead of the video connecting cord. You will get a better picture.



### 💡 If you connect the player to a monitor or projector with component video input connectors that conform to output signals from the COMPONENT VIDEO OUT (Y, Cb/B-Y, Cr/R-Y) connectors on the player

Connect the component via the COMPONENT VIDEO OUT connectors using three video connecting cords (not supplied) of the same kind. You will get a better picture.



## Note

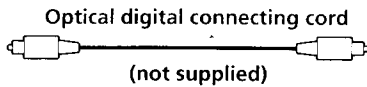
Refer to the instructions supplied with the component to be connected.

(Continued)

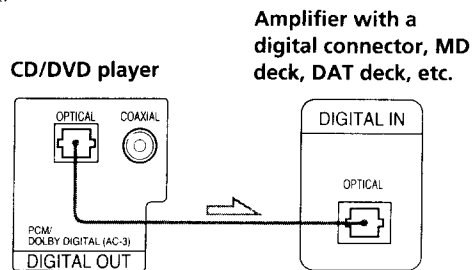
- 💡 If you have a digital component such as an amplifier with a digital connector, DAT or MD  
Connect the component via the DIGITAL OUT OPTICAL or COAXIAL connector using an optical or coaxial digital connecting cord (not supplied).

When you play a DVD, set "DIGITAL OUT" in "INITIAL SETUP 2" to "PCM" in the setup display. (page 39)

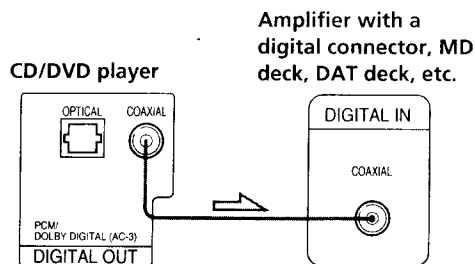
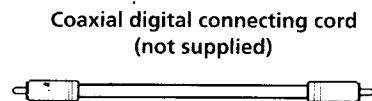
### ■ When using an optical digital connecting cord



Take off the cap and plug in the optical digital connecting cord.



### ■ When using a coaxial digital connecting cord



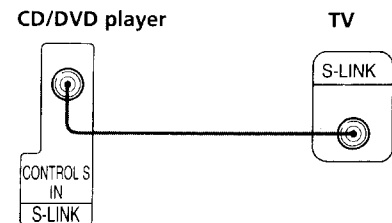
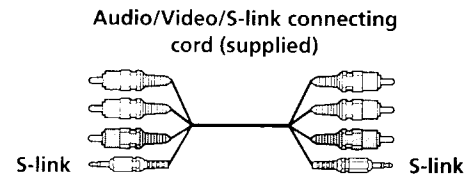
#### Notes

- 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.

When you make the connections above, do not set "DIGITAL OUT" in "INITIAL SETUP 2" to "DOLBY DIGITAL/PCM." If you do, a loud noise will suddenly come out from the speakers, affecting your ears or causing the speakers to be damaged.

- 💡 If your TV has an S-link connector

You can control the CD/DVD player from the TV. Connect the TV via the S-LINK connector using the S-link cable (supplied). Refer to the instructions supplied with the TV to be connected.



## Transporting the player

Before transporting the player, follow the procedure below to return the internal mechanisms back to their original position.

- 1 Remove all the discs from the disc tray.
- 2 Press to close the disc tray.  
"NO DISC" appears in the display.
- 3 Wait for 10 seconds, then press I/⏻ to turn off the player.



## Necessary Setup Before Using the Player

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

For details on using the setup display, see page 36.

For details on each setup display item, see pages 37 to 39.

For details to enjoy Dolby Digital Surround, see pages 40 to 45.

### ■ To connect the player to a wide-screen TV

In the setup display, set "TV TYPE" in "INITIAL SETUP 1" to "16:9."

### ■ To connect the player to a normal TV

In the setup display, set "TV TYPE" in "INITIAL SETUP 1" to "4:3 LETTER BOX" (default setting) or "4:3 PAN SCAN." For details, see page 38.

### ■ 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

When you play a DVD, set "DIGITAL OUT" in "INITIAL SETUP 2" to "PCM" or "D-PCM" in the setup display.

"PCM" is default setting. For details, see page 39.

### ■ To enjoy Dolby Digital surround sound by connecting the player to an amplifier with 5.1 ch inputs

In the setup display, set "MODE" in "5.1 OUTPUT SETUP 2" to "OFF." This is default setting. See page 40 to hookup the speaker system and page 42 to set each speaker position or distance etc.

### ■ To connect the player to an audio component with a built-in Dolby Digital decoder

In the setup display, set "DIGITAL OUT" in "INITIAL SETUP 2" to "DOLBY DIGITAL/PCM."

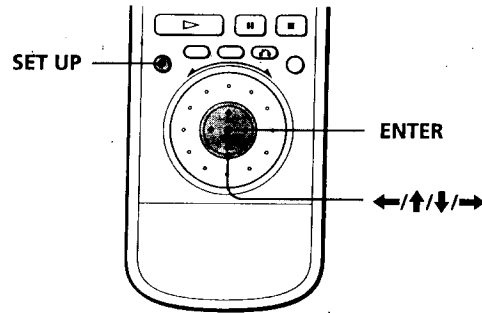
Use the setup display to change the various settings for the picture and sound.

For details, see page 36.

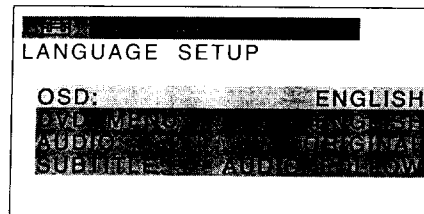
To enjoy surround sound with front speakers only, set "MODE" in "5.1 OUTPUT SETUP 2" to "VES A" or "VES B." You can enjoy surround sound through both the LINE OUT (AUDIO 1, 2) and FRONT (L/R) of the 5.1CH OUTPUT connectors. See page 44 for details.

## Selecting the Language for On-screen Display

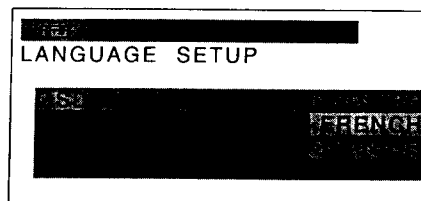
You can select the language for the setup display or the messages displayed on the screen. Default setting is "ENGLISH."



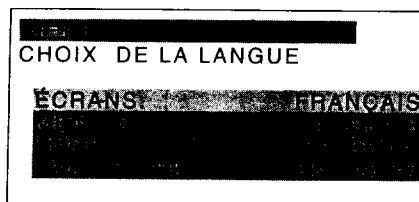
- 1 Press SET UP and select "SET UP" using ←/→, and then press ENTER.



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



- 3 Select the language you want using ↑/↓, then press ENTER.

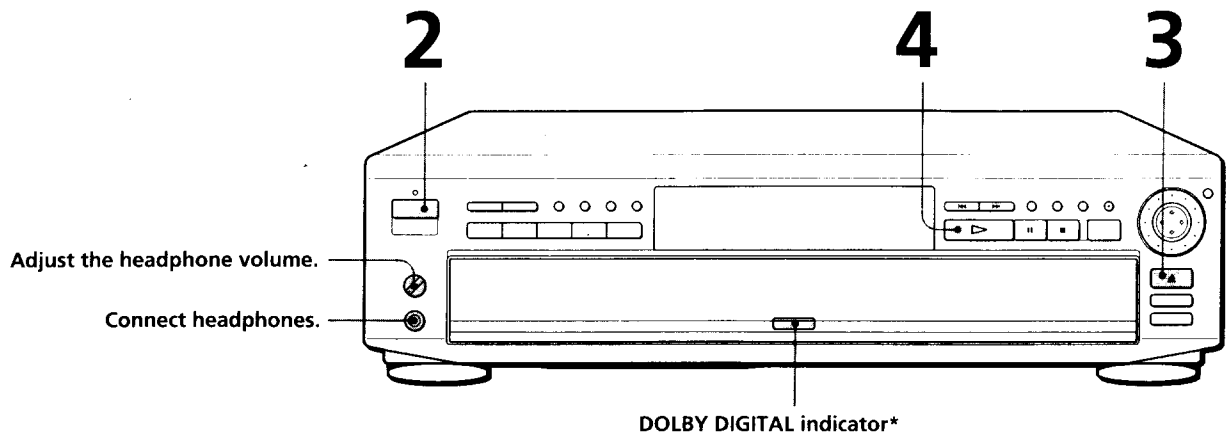


**To cancel using the setup display on the way**  
Press SET UP.

### Note

The languages you can select are the ones displayed in step 2. For details, see page 37.

# Playing a DVD



- The operating procedure of CDs or VIDEO CDs is different from that of DVDs. For details, see pages 14 to 17.

You can turn on the player using the remote. Press I/⏻ when the indicator above the I/⏻ button on the front panel is lit in red.

- \* The DOLBY DIGITAL indicator lights up except for the case as follows:
- you insert a CD or a VIDEO CD.
  - the current audio format is PCM or MPEG Audio.
  - you open the disc tray.

You can place the DVD, Video CD and CD mixed.

**Note**  
If you leave the player or the remote in pause or stop mode for 15 minutes, the screen saver image appears automatically. To disappear the screen saver, press ▷. (If you want to set the screen saver function to off, see page 38.)

Depending on the DVD, some operations may be different or restricted. Refer to the instructions supplied with your disc.

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

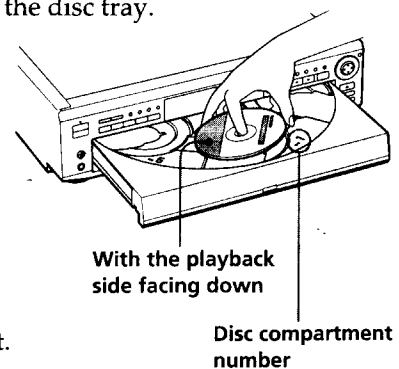
## When using an amplifier

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

- 2** Press I/⏻ (POWER) to turn on the player.  
The indicator (red) above the I/⏻ button changes to green and the front panel display lights up.

- 3** Press ≡, and place the disc on the disc tray.  
To place other discs, press DISC SKIP and place the discs in the order you want to play.

Each time you press DISC SKIP, the disc tray turns and you can place the discs in the empty compartments. The player plays from the disc placed in DISC 1 compartment.



- 4** Press ▷.  
The disc tray closes, and the player starts playing back all discs (Continuous Play). Adjust the volume on the TV or the amplifier.

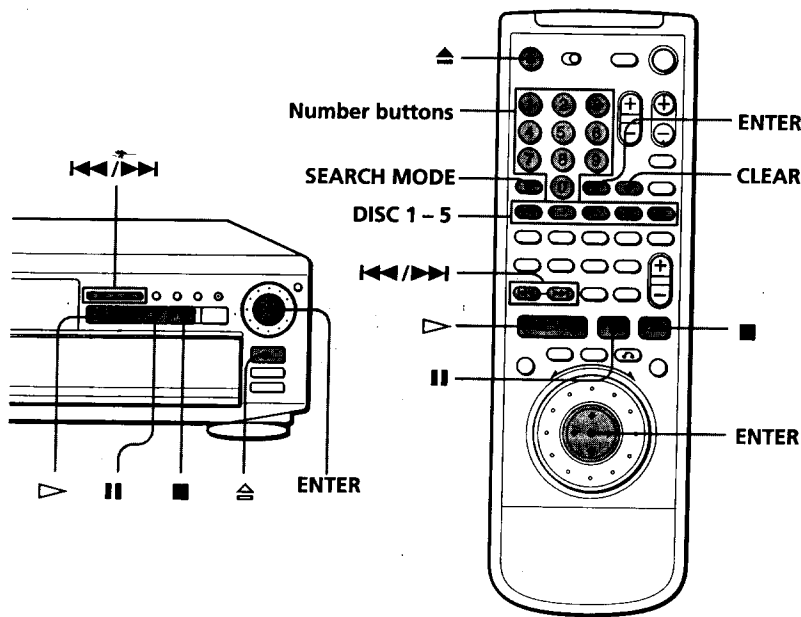
## After following Step 4

A DVD menu or title menu may appear on the TV screen (see page 13).

## When "RESUME" appears on the front panel display

You can resume playback from the point where you stopped the DVD.  
For details on playing from the beginning of the disc, see page 27.

**Note**  
You may not be able to do Resume Play depending on the DVD.



## What are chapter and title?

See page 5.

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

**Each time you press SEARCH MODE**  
"CHAPTER SEARCH," "TITLE SEARCH" and "TIME SEARCH" appear on the TV screen.

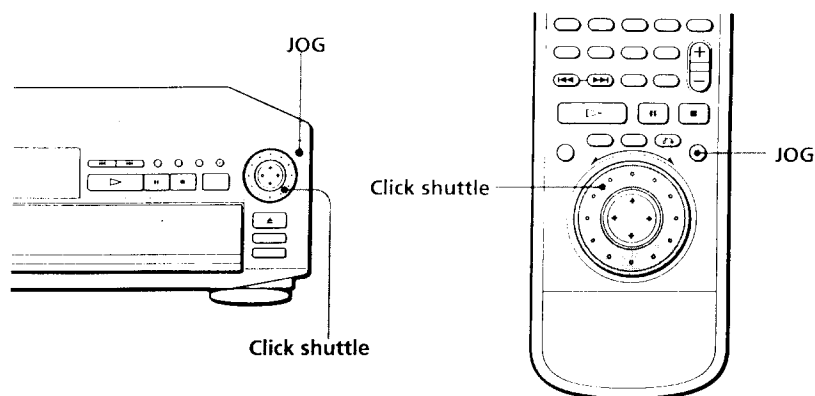
**If you want to play only 1 disc**  
First press REPEAT to display "1 DISC," and then press  $\triangleright$  or the disc number button (DISC 1-5).  
To return playing all discs, press REPEAT to display "ALL DISCS."

| To   | Press  |
|--|--|
| Select a disc  | DISC 1-5   |
| Stop   | ■  |
| Pause  |  |
| Resume play after pause                                  | or $\triangleright$  |
| Go to the next chapter in Continuous Play mode           | $\triangleright$   |
| Go back to the preceding chapter in Continuous Play mode | $\triangleleft$  |
| Select the chapter                                       | 1 SEARCH MODE repeatedly until "CHAPTER SEARCH" appears on the TV screen.<br>2 Number buttons to select the chapter number, then ENTER or $\triangleright$ . |
| Select the title   | 1 SEARCH MODE repeatedly until "TITLE SEARCH" appears on the TV screen.<br>2 Number buttons to select the title number, then ENTER or $\triangleright$ .     |
| Locate a point using the time code                       | 1 SEARCH MODE repeatedly until "TIME SEARCH" appears on the TV screen.<br>2 Number buttons to enter a time code, then ENTER or $\triangleright$ .            |
| Stop play and remove the disc                            | $\blacktriangle$   |

**If you have made a mistake when you press the number button.**  
Press CLEAR, then the correct number button.

## To play at various speeds/frame-by-frame

Using the click shuttle and the JOG button/indicator, you can playback a DVD with various speed or frame-by-frame. Each time you press JOG, it changes between shuttle mode and jog mode.



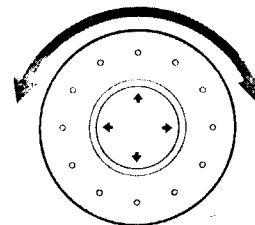
### Notes

- Depending on the DVD, you may not be able to do some of the operations described on the right.
- When you play back a DVD at twice the normal speed in either direction, the sounds of the picture will come out from the LINE OUT (AUDIO 1, 2) connectors. The sounds are lower than the ones at normal speed. In this case, no sounds come out from the DIGITAL OUT OPTICAL and COAXIAL connectors.

### ■ To change the playback speed (Shuttle mode)

Turn the click shuttle. The playback speed changes depending on the turning direction and angle as follows:

- FF2▶▶ (about 30 times the normal speed)
- FF1▶▶ (about 10 times the normal speed)
- ×2▶ (about twice the normal speed)
- PLAY▶ (Normal speed)
- SLOW1▶▶ (playback direction)
- SLOW2▶▶ (playback direction – slower than "SLOW1▶▶")
- PAUSE||
- SLOW2◀◀ (opposite direction – slower than "SLOW1◀◀")
- SLOW1◀◀ (opposite direction)
- ×2◀ (about twice the normal speed : opposite direction)
- FR1◀◀ (about 10 times the normal speed)
- FR2◀◀ (about 30 times the normal speed)



If you turn the click shuttle quickly, the playback speed goes to FF2▶▶/FR2◀◀ at once.

### ■ To play the DVDs frame-by-frame changing the playback speed (Jog mode)

- Press JOG.  
JOG lights up during jog mode. When you press JOG on the player, it becomes pause.
- Turn the click shuttle.

Depending on the turning speed, the playback goes to frame-by-frame toward the turning direction of the click shuttle. If you turn the click shuttle with constant speed for a while, the playback speed goes to slow or normal.

### ■ To return to Continuous Play

Press ▶.

### Notes

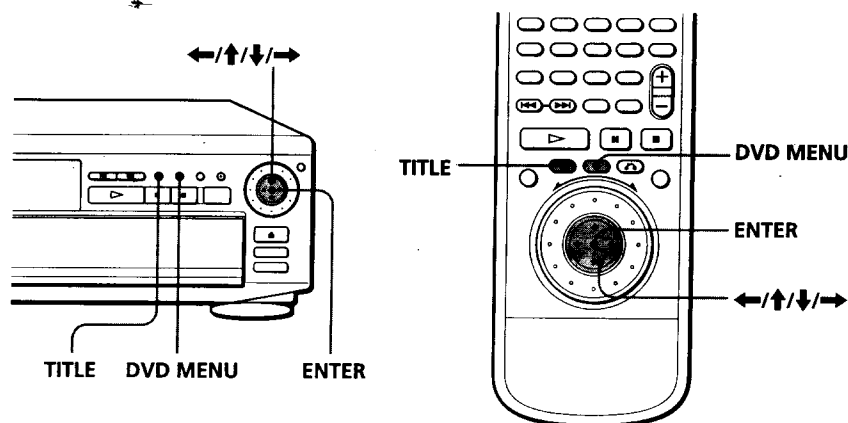
- The JOG indicator shows the mode of the click shuttle close to the indicator only. When the indicator on the remote does not light up, it keeps shuttle mode on the remote even if the indicator on the player lights up.
- If you don't operate the click shuttle for about 20 seconds after pressing JOG, it returns to shuttle mode on the remote. On the player, it keeps jog mode.

## Notes


- Depending on the DVD, you may not be able to select the title.
- Depending on the DVD, a "title menu" may simply be called a "menu" or "title" in the instructions supplied with the disc. "Press ENTER." may also be expressed as "Press SELECT."

## Using the Title Menu

A DVD is divided into long sections of a picture or a music piece called "titles." When you play the DVD which contains several titles, you can select the title you want using the title menu.



- 1 Press TITLE.  
The title menu appears on the TV screen. The contents of the menu varies from disc to disc.
- 2 Press  $\leftarrow/\uparrow/\downarrow/\rightarrow$  to select the title you want to play.  
Depending on the disc, you can use the number buttons to select the title.
- 3 Press ENTER.  
The player starts playing the selected title.

 If you want to select the language for the DVD menu Change the setting using "LANGUAGE SETUP" in the setup display (page 37).

## Note

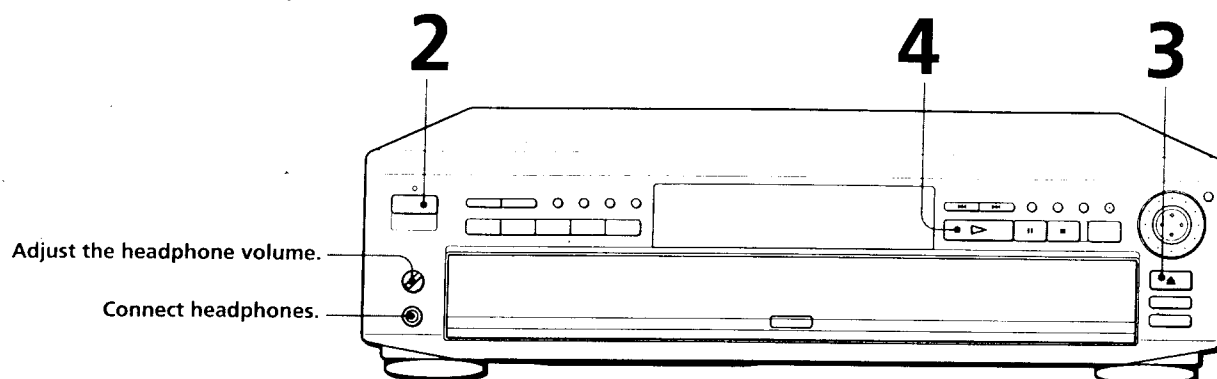
Depending on the DVD, a "DVD menu" may simply be called a "menu" in the instructions supplied with the disc.

## Using the DVD menu


Some DVDs allow you to select the disc contents using the menu. When you play these DVDs, you can select the language for the subtitles, the language for the sound, etc., using the DVD menu.


- 1 Press DVD MENU.  
The DVD 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 item you want to change.  
Depending on the disc, you can use the number buttons to select the item.
- 3 To change other items, repeat Step 2.
- 4 Press ENTER.


# Playing a CD/VIDEO CD



- The operating procedure of DVDs is different from that of CDs or VIDEO CDs. For details, see pages 10 to 13.

 You can turn on the player using the remote. Press I/⏻ when the indicator above the I/⏻ button on the front panel is lit in red.

 You can place the DVD, Video CD and CD mixed.

 **After following Step 4**  
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 17.)

**Note**  
If you leave the player or the remote in pause or stop mode for 15 minutes, the screen saver image appears automatically. To disappear the screen saver, press ▷. (If you want to set the screen saver function to off, see page 38.)

## 1 Make 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.

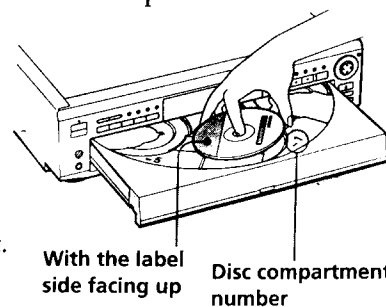
## 2 Press I/⏻ (POWER) to turn on the player.

The indicator (red) above the I/⏻ button changes to green and the front panel display lights up.

## 3 Press ⏮, and place the disc on the disc tray.

To place other discs, press DISC SKIP and place the discs in the order you want to play.

Each time you press DISC SKIP, the disc tray turns and you can place the discs in the empty compartments. The player plays from the disc placed in DISC 1 compartment.

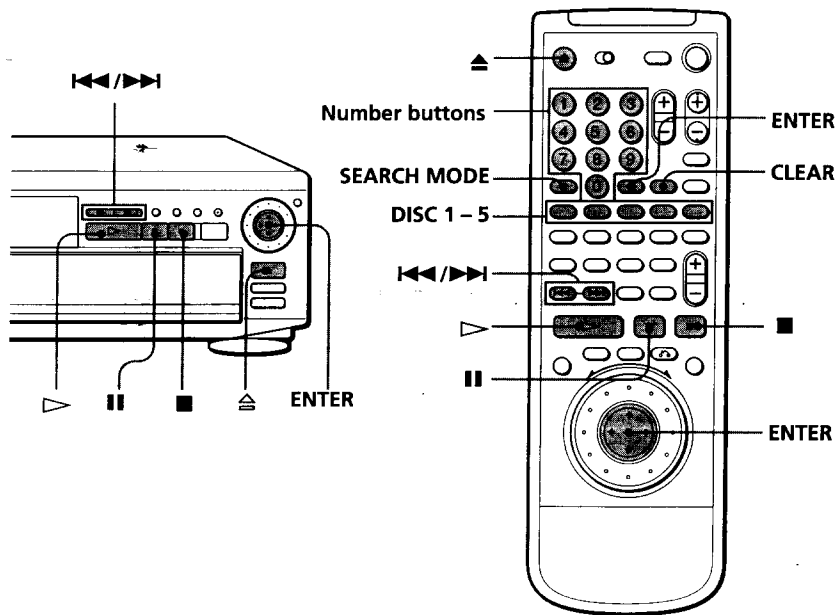


## 4 Press ▷.

The disc tray closes, and the player starts playing back all discs (Continuous Play). Adjust the volume on the TV or the amplifier.

Depending on the VIDEO CD, some operations may be different or restricted. Refer to the instructions supplied with your disc.

**When "RESUME" appears on the front panel display**  
You can resume playback from the point where you stopped the CD/VIDEO CD. For details on playing from the beginning of the disc, see page 25.



**What is a track?**  
See page 5.

**What is an index?**  
See page 5.

**What is a scene?**  
See page 5.

**If you want to change the search mode**  
Press SEARCH MODE. Each time you press in case of a VIDEO CD, "SCENE SEARCH," "TRACK SEARCH" and "V. (VIDEO) INDEX SEARCH" appear on the TV screen. In case of a CD, only "TRACK SEARCH" appears.

## Note

Some discs do not allow you to start playing from a particular scene. In this case, if you do Scene Search before you start playing, the player starts playing from scene 1. If you do Scene Search while playing a disc, the player starts playing from the current scene.

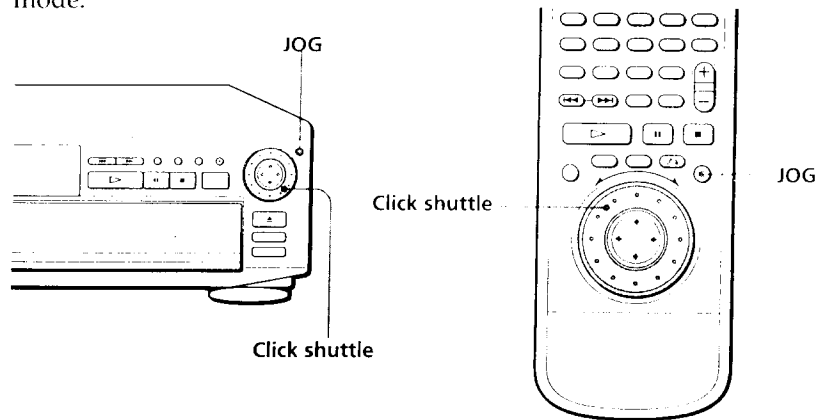
**If you want to play only 1 disc**  
First press REPEAT to display "1 DISC," and then press  $\triangleright$  or the disc number button (DISC 1 - 5). To return playing all discs, press REPEAT to display "ALL DISCS."

| To   | Press   |
|--|---|
| Select a disc  | DISC 1 - 5  |
| Stop   | ■   |
| Pause  |   |
| Resume play after pause  | or $\triangleright$   |
| Go to the next track in Continuous Play mode   | $\gg$   |
| Go back to the preceding track in Continuous Play mode   | $\ll$   |
| Select the track   | 1 SEARCH MODE repeatedly until "TRACK SEARCH" appears on the TV screen.<br>2 Number buttons to select the track number, then ENTER or $\triangleright$ .  |
| 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.<br>2 Number buttons to select the scene number, then ENTER or $\triangleright$ . (To check the current scene number, press DISPLAY. The scene number appears at the left top of the TV screen.) |
| Stop play and remove the disc  | $\triangle$   |

**If you have made a mistake when you press the number button.**  
Press CLEAR, then the correct number button.

## To play at various speeds / frame-by-frame

Using the click shuttle and the JOG button/indicator, you can playback a CD/VIDEO CD with various speed or frame-by-frame. Each time you press JOG, it changes between shuttle mode and jog mode.

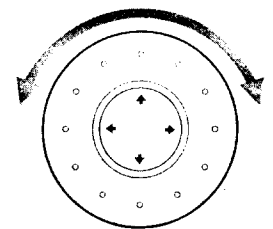
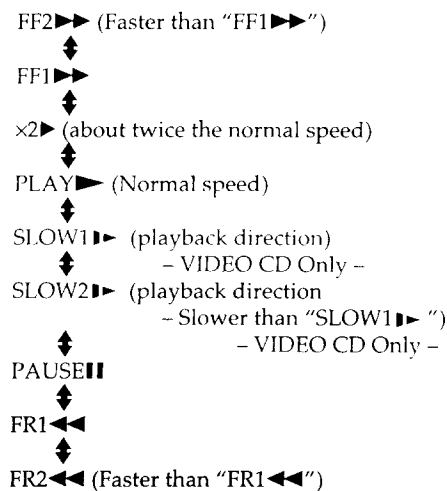


### Notes

- Depending on the VIDEO CD, you may not do some of the operations described on the right.
- When you play a VIDEO CD, there is no sound except for the playback at normal speed.

### ■ To change the playback speed (Shuttle mode)

Turn the click shuttle. The playback speed changes depending on the turning direction and angle as follows:



If you turn the click shuttle quickly, the playback speed goes to FF2 / FR2 at once.

### ■ To play the VIDEO CDs frame-by-frame changing the playback speed (Jog mode - VIDEO CD Only)


#### 1 Press JOG.

JOG lights up during jog mode. When you press JOG on the player, it becomes pause.

#### 2 Turn the click shuttle.

Depending on the turning speed, the playback goes to frame-by-frame toward the playback direction only. If you turn the click shuttle with constant speed for a while, the playback speed goes to slow or normal.

### ■ To return to Continuous Play

Press .

### Notes

- The JOG indicator shows the mode of the click shuttle close to the indicator only. When the indicator on the remote does not light up, it keeps shuttle mode on the remote even if the indicator on the player lights up.
- If you don't operate the click shuttle for about 20 seconds after pressing JOG, it returns to shuttle mode on the remote. On the player, it keeps jog mode.



**When playing VIDEO CDs with PBC functions**  
PBC playback starts automatically.

**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 play still pictures such as a menu screen. To return to PBC playback, press **■** twice then press **▷**.

**Note**

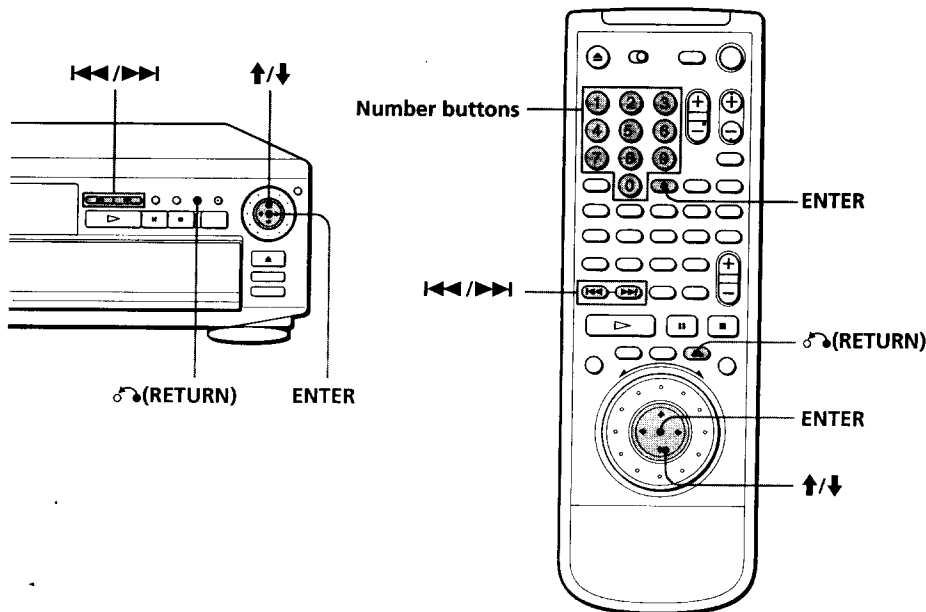
Depending on the VIDEO CD, "Press ENTER" in Step 3 may be expressed as "Press SELECT" in the instructions supplied with the disc.

## 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 screen on the TV screen.

On this player, you can use the number buttons, **ENTER**, **◀◀**, **▶▶**, **↑/↓** and **↶**(RETURN) during PBC Playback.



**1** Start playing a VIDEO CD with PBC functions, following Steps 1 to 4 in "Playing a CD/VIDEO CD" on page 14.

**2** Select the item number you want.

**On the player**

Press **↑/↓** to select the item number.

**On the remote**

Press the number button of the item you want.

**3** Press **ENTER**.

**4** Follow the instructions on the menu screen for interactive operations.

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

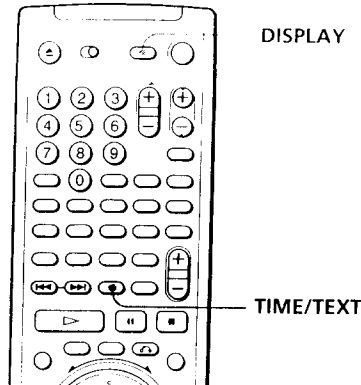
### Going back to the menu screen

Press **↶**, **◀◀**, or **▶▶**.

## Using the On-Screen Display



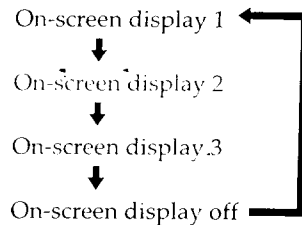
You can check the operating status of the player and the information about the disc using the on-screen display on the TV screen.



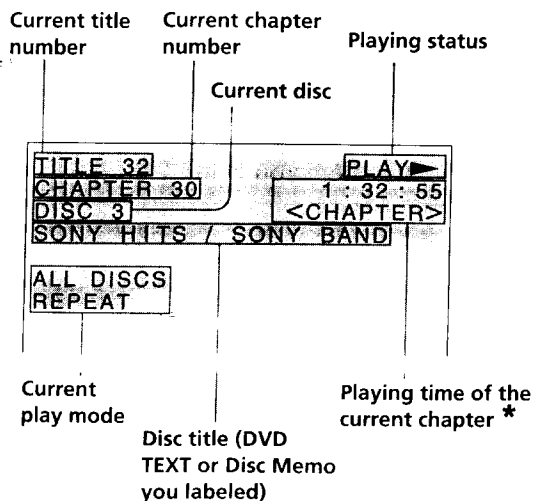
### When playing back a DVD **DVD**

Press DISPLAY.

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

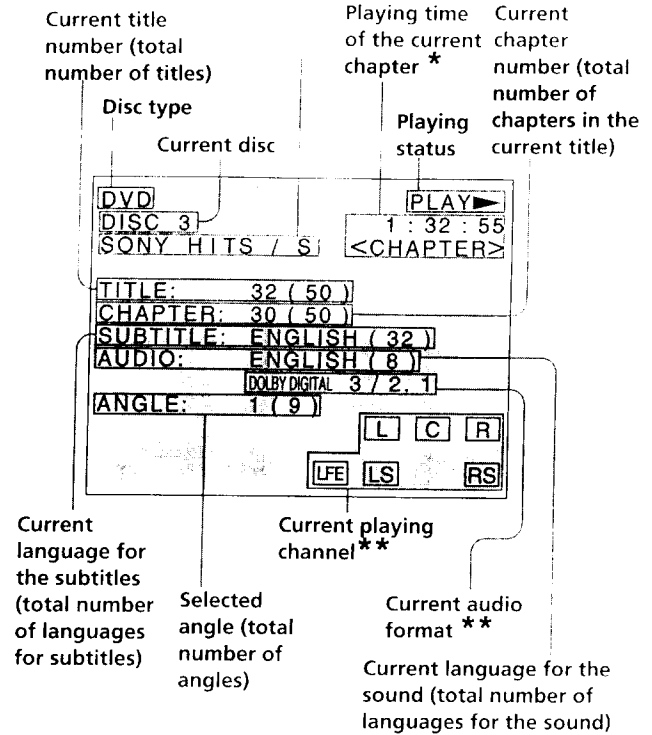


#### ■ Display information of the on-screen display 1 mode

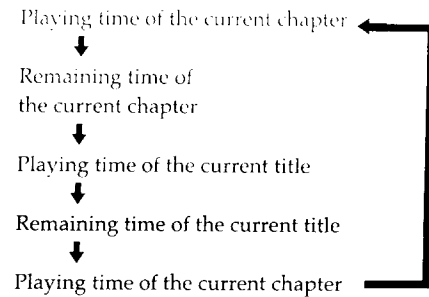


#### ■ Display information of the on-screen display 2 mode

Disc title (DVD TEXT or Disc Memo you labeled)



\* In display 1 or 2 mode, each time you press TIME/TEXT the information changes as shown below.



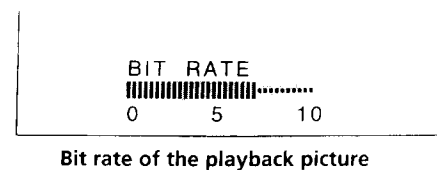
\*\* See page 45 for details.

#### Note

Some information may not be displayed depending on a DVD.

#### ■ Display information of the on-screen display 3 mode

While playing a disc, the approximate bit rate of the playback picture is always displayed by Mbps (Mega bit per second).



#### What is bit rate?

Bit rate refers to the amount of video data per second in a disc. The higher the bit rate is, the larger the amount of data. However, this does not always mean that you can get higher quality pictures.

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

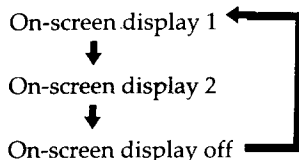
No information is displayed. (Messages, etc., will be displayed.)

## When playing back a CD/VIDEO CD

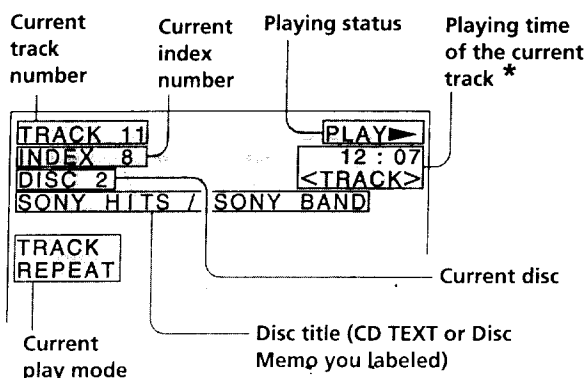


Press DISPLAY.

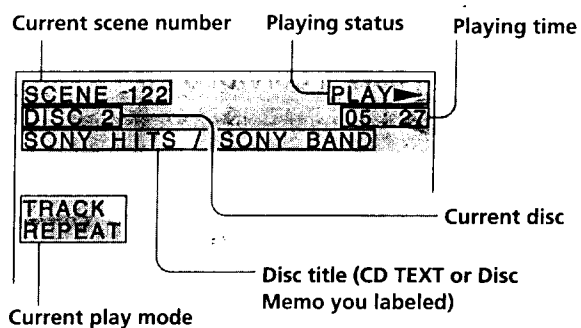
Each time you press the button, the on-screen display changes as follows:



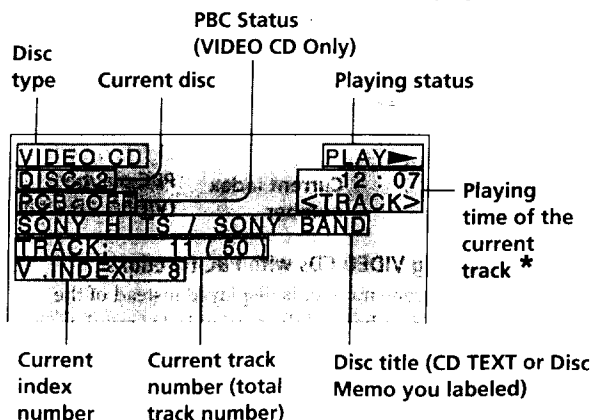
## ■ Display information of the on-screen display 1 mode



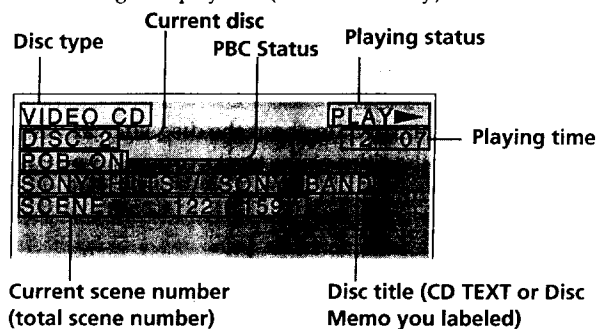
- During PBC playback (VIDEO CD Only)



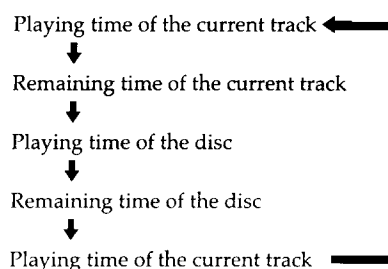
## ■ Display information of the on-screen display 2 mode



- During PBC playback (VIDEO CD Only)



- \* In display 1 or 2 mode, each time you press TIME/TEXT, the information changes as shown below.



While you are doing Shuffle Play, Program Play, or PBC Playback, the playing time of the disc and the remaining time of the disc are not displayed.

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

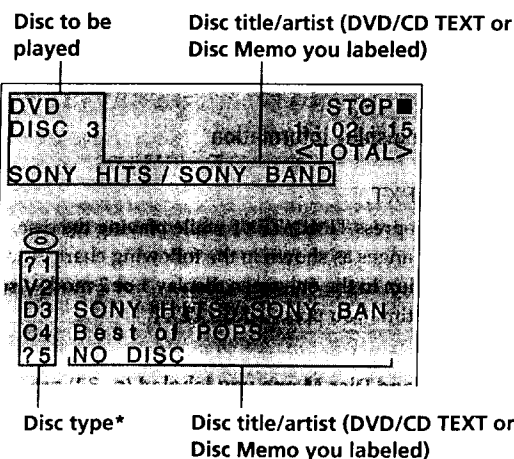
No information is displayed. (Messages, etc., will be displayed.)

## When stopping a DVD/CD/VIDEO CD



If you press TIME/TEXT, the following display appears.

To turn off the display, press TIME/TEXT again.

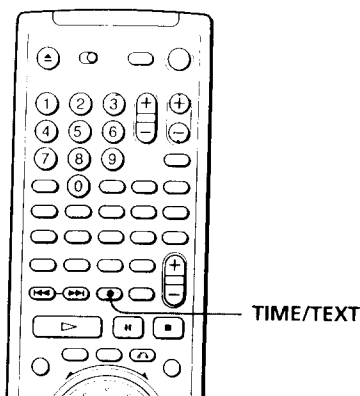


- \* D stands for DVD.
- V stands for Video CD.
- C stands for CD.
- "?" stands for unknown disc type since this disc has not been played. The type and title of the disc is not displayed until the disc is played.

## Using the Front Panel Display



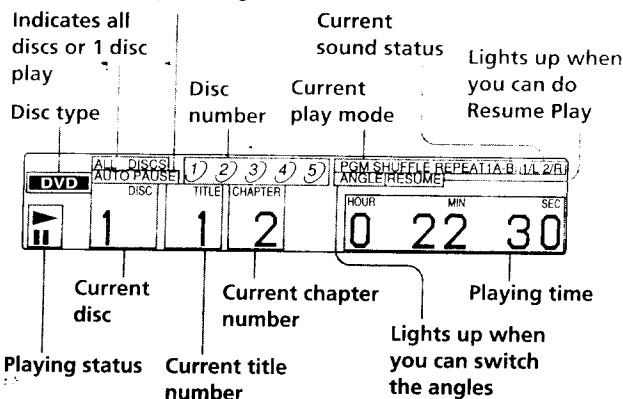
You can check information about the disc, such as the total number of the titles or the tracks or remaining time, using the front panel display.



## When playing back a DVD

■ Display information while playing the disc

Lights up while playing the sections with the auto pause signal



■ Changing the display information

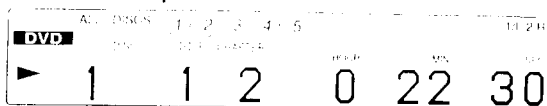
Press TIME/TEXT.

Each time you press TIME/TEXT while playing the disc, the display changes as shown in the following chart. The time information in the on-screen display 1 or 2 mode also changes each time you press TIME/TEXT.

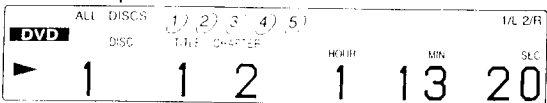
💡 **DVD TEXT and Disc Memo you labeled (p. 32) are displayed for "Text"**

Up to 13 characters are displayed during playing. When stopping the disc, the entire text scrolls once. DVD TEXT is displayed as "disc title/artist." However, some discs may have DVD TEXT which consists of only title or artist.

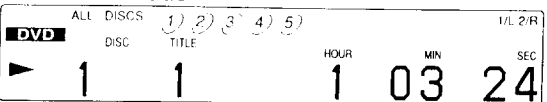
Playing time and number of the current chapter



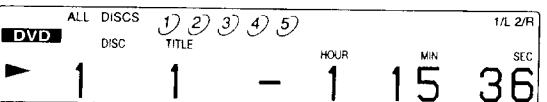
Remaining time of the current chapter Press TIME/TEXT.



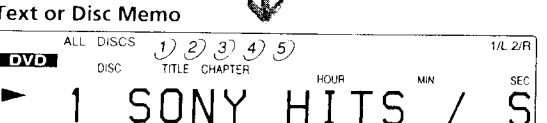
Playing time and number of the current title Press TIME/TEXT.



Remaining time of the current title Press TIME/TEXT.



Text or Disc Memo Press TIME/TEXT.



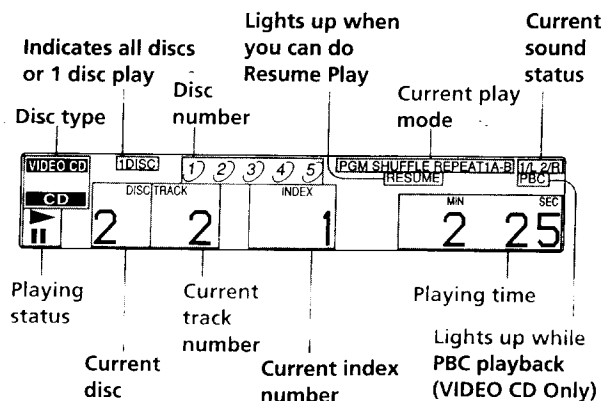
## Notes

- Depending on the DVD, the chapter number or time may not appear.
- While you are doing Shuffle Play or Program Play, the playing time of the disc and the remaining time of the disc are not displayed.
- Some characters in European languages may not appear correctly on the front panel display.

## When playing back a CD/VIDEO CD



■ Display information while playing a disc



💡 **When playing VIDEO CDs with PBC functions**

The current scene number is displayed instead of the current track number and the current index number. In this case, the front panel display does not change when you press TIME/TEXT.

## ■ Changing the display information

Press TIME/TEXT.

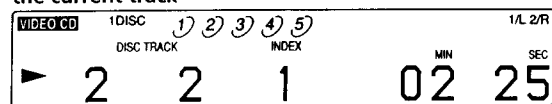
Each time you press TIME/TEXT while playing a disc, the display changes as shown in the following chart. The time information in the on-screen display 1 and 2 mode also changes each time you press TIME/TEXT.

### 💡 CD TEXT and Disc Memo you labeled (p. 32) are displayed for "Text"

Up to 13 characters are displayed during playing. When stopping the disc, the entire text scrolls once.

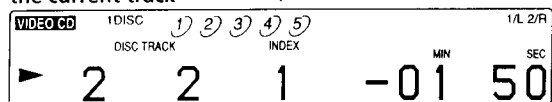
CD TEXT is displayed as "disc title/artist." However, some discs may have CD TEXT which consists of only title or artist.

Playing time and number of the current track



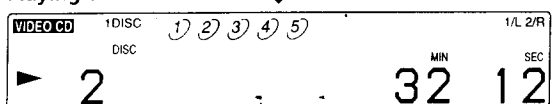
Remaining time of the current track

Press TIME/TEXT.



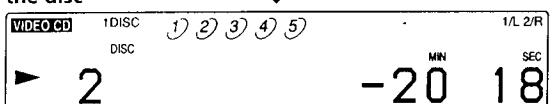
Playing time of the disc

Press TIME/TEXT.



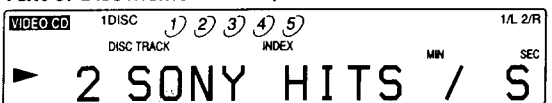
Remaining time of the disc

Press TIME/TEXT.



Text or Disc Memo

Press TIME/TEXT.



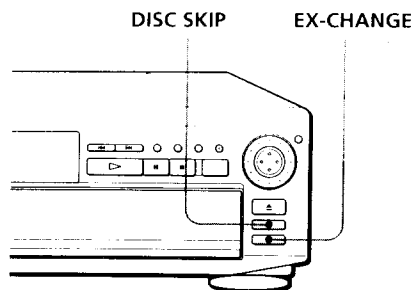
Press TIME/TEXT.

### Notes

- While you are doing Shuffle Play, Program Play, or PBC playback, the playing time of the disc and the remaining time of the disc are not displayed.
- Some characters in European languages may not appear correctly on the front panel display.

## Replacing Discs While Playing a Disc (EX-CHANGE)

You can open the disc tray while playing a disc so that you can check what discs are to be played next and replace discs without interrupting playback of the current disc.



- 1** Press EX-CHANGE.  
The disc tray opens and two disc compartments appear. Even if the player is playing a disc, it doesn't stop playing.
- 2** Replace discs in the compartments with new ones.
- 3** Press DISC SKIP.  
The disc tray turns and other two disc compartments appears.
- 4** Replace discs in the compartments with new ones.
- 5** Press EX-CHANGE.  
The disc tray closes.

### While the disc tray is open by pressing the EX-CHANGE button

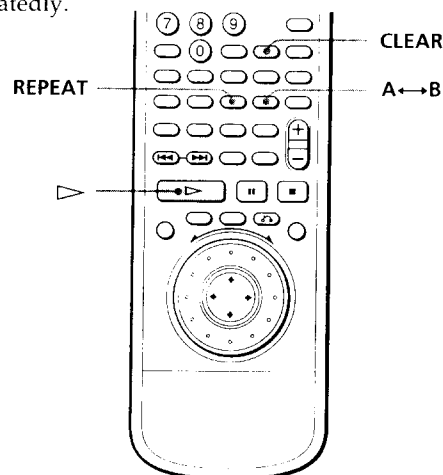
- If the playback of the current disc ends, the player stops playing. If the disc is played in 1 DISC Repeat play mode (page 23), the current disc starts playing again.
- In ALL DISCS Shuffle Play mode (page 24), titles/tracks are reshuffled on the current disc.
- In Program Play mode (page 25), only the titles/tracks on the current disc are played.

### Note

Do not push the disc tray to close in Step 5, as you may damage the player.

## Playing Repeatedly (Repeat Play)

You can play all discs, all titles/tracks on a disc, a single title/chapter/track or a specific portion repeatedly.



### Repeating all discs



In Shuffle or Program Play mode, the player repeats the titles or tracks on all discs in the shuffled or programmed order.

You cannot do Repeat Play during PBC playback of VIDEO CDs (page 17). You may not be able to do Repeat Play depending on the DVD.

**Press REPEAT during playback until "ALL DISCS" "REPEAT" appears on the screen and on the front panel display.**

The player repeats the discs/titles/chapters/tracks as follows:

| When the disc is played in      | The player repeats  |
|---------------------------------|---|
| Continuous Play (page 10 or 14) | All the titles or tracks in all discs ("ALL DISCS" and "REPEAT" appear.)                            |
| Shuffle Play (page 24)          | All the titles or tracks in all discs in random order ("ALL DISCS," "REPEAT" and "SHUFFLE" appear.) |
| Program Play (page 25)          | Programmed titles /chapters /tracks in all discs ("ALL DISCS," "REPEAT" and "PGM" appear.)          |

### To cancel repeating all discs

Press CLEAR.

### Note

While repeating all discs, playing stops at PBC playback of VIDEO CD or DVD having title menu.

## Repeating all the titles/tracks on a disc



In Shuffle or Program Play mode, the player repeats the titles or tracks in the shuffled or programmed order.

You cannot do Repeat Play during PBC playback of VIDEO CDs (page 17). You may not be able to do Repeat Play depending on the DVD.

**Press REPEAT during playback until "1 DISC" "REPEAT" appears on the screen and on the front panel display.**

You may press DISC 1 – 5 to select the disc first and then press REPEAT to repeat the disc.

The player repeats the discs/titles/chapters/tracks as follows:

| When the disc is played in      | The player repeats  |
|---------------------------------|---|
| Continuous Play (page 10 or 14) | All the titles or tracks in current disc ("1 DISC" and "REPEAT" appear.)                            |
| Shuffle Play (page 24)          | All the titles or tracks in current disc in random order ("1 DISC," "REPEAT" and "SHUFFLE" appear.) |
| Program Play (page 25)          | Programmed titles / chapters / tracks in current disc ("1 DISC," "REPEAT" and "PGM" appear.)        |

**To cancel repeating all the titles or all the tracks on a disc**  
Press CLEAR.

## Repeating the current title or chapter



You can repeat only the current title or chapter in Continuous Play mode. You may not be able to do Repeat Play depending on the DVD.

### ■ Repeating the current title

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

The player repeats the current title.

### ■ Repeating the current chapter

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

The player repeats the current chapter.

**TITLE** — "CHAPTER" is displayed when  
**REPEAT** you select the current chapter

**To cancel repeating the current title or chapter**  
Press CLEAR.

## Repeating the current track

You can repeat only the current track in Continuous Play mode.

While the track you want is being played, press REPEAT until "TRACK" and "REPEAT" appear on the TV screen.

The player repeats the current track.

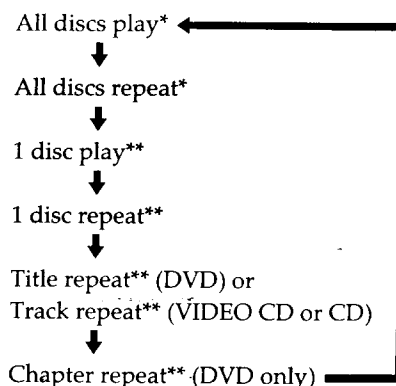
**TRACK**  
**REPEAT**

**To cancel repeating the current track**  
Press CLEAR.

### Notes

- Repeat play is canceled when you turn the power off.
- If you select a VIDEO CD or CD in TITLE REPEAT or CHAPTER REPEAT mode, repeat mode automatically switches to TRACK REPEAT. In the VIDEO CD case, the PBC function is automatically turned off and TRACK REPEAT starts.
- If you select a DVD in TRACK REPEAT mode, repeat mode automatically switches to TITLE REPEAT.

 Each time you press REPEAT during Continuous Play, the play mode of the player changes as follows:



\* If you press CLEAR to cancel repeating, the play mode becomes "All discs play."

\*\* If you press CLEAR to cancel repeating, the play mode becomes "1 disc play."

### Repeating a specific portion

(A↔B Repeat)



DVD

VIDEO CD

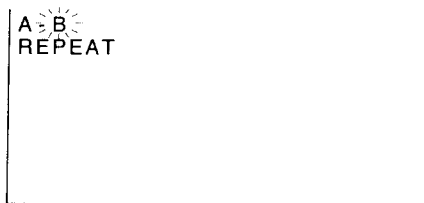
CD

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

During PBC Playback of VIDEO CDs (page 17), this function is available only while playing moving pictures.

You may not be able to do Repeat Play depending on the DVD.

- During playback, when you find the starting point (point A) of the portion to be played repeatedly, press A↔B. The starting point (point A) is set. "A-B REPEAT" appears on the TV screen and "B" flashes.



"REPEAT A-" also appears on the front panel display and "B" flashes.

- When you reach the ending point (point B), press A↔B again. "A-B REPEAT" on the TV screen disappears and the player starts repeating this specific portion.

"REPEAT A-B" appears on the front panel display during A↔B repeat play.

#### To cancel A↔B Repeat

Press CLEAR.

#### To cancel setting halfway

Press CLEAR.

#### Notes

- A↔B Repeat is canceled when:
  - you open or close the disc tray
  - you turn the power off
- When you set A↔B Repeat, the settings for Shuffle Play and Program Play are canceled.
- You may not be able to set A↔B Repeat, depending on the scene of a DVD or a VIDEO CD.
- You cannot set the start point (point A) on one disc and ending point (point B) on other disc.

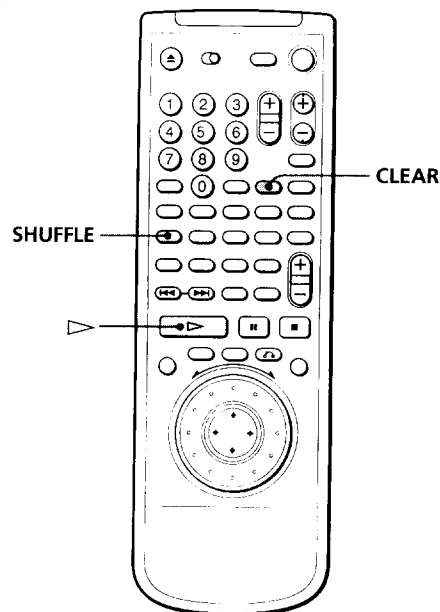
### Playing in Random Order (Shuffle Play)

DVD

VIDEO CD

CD

You can have the player "shuffle" titles or tracks on all discs or a specific disc and play them in a random order.



- Press SHUFFLE.

- To shuffle all discs

Press ▷.

#### To shuffle and play a specific disc

Press REPEAT to display "1 DISC" and then select the disc by pressing DISC 1 – 5.

(During playback, the player starts Shuffle Play when you follow the step 1.)

#### To cancel Shuffle Play

Press CLEAR.

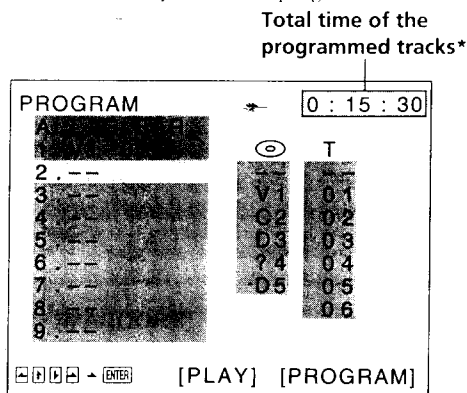
#### Notes

- The Shuffle Play is canceled when:
  - you open or close the disc tray
  - you turn the power off
- You may not be able to do Shuffle Play depending on the DVD.
- When you play a DVD, you can do Shuffle Play only by titles.



## ■ When selecting a VIDEO CD or CD

Select the track you want to program.

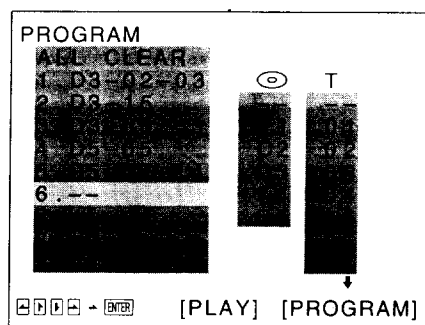


\* If a DVD is included in the program, total time of the program does not appear.

## ■ When selecting a disc indicated by "?"

You can select up to 99 titles and 99 chapters on the programming display. If the title numbers or chapter numbers you have selected in the "?" disc are not available while playing the disc during Program Play, those title numbers and chapter numbers are skipped. If the "?" disc turned out to be a CD or VIDEO CD, the selected chapter numbers are ignored. The title numbers are regarded as the track numbers and played.

- To program other discs, titles, chapters or tracks, repeat Steps 2 to 4.  
The programmed titles, chapters or tracks are displayed from 2 in order.



- Press  $\triangleright$  to start Program Play.

## To cancel Program Play

Press CLEAR.

## To cancel programming

Press PROGRAM.

## To change programming

- In Step 2, select the disc you want to change using  $\uparrow/\downarrow$ .
- Follow Step 3 for new programming.

## To cancel the programmed order

To cancel all the discs, titles, chapters or tracks in the programmed order, select "ALL CLEAR" in Step 3. To cancel the selected program, select the program using  $\uparrow/\downarrow$  in Step 3 then press CLEAR, or select "--" in Step 4 then press ENTER.

## 💡 The program remains even after the Program Play ends

When you press  $\triangleright$ , you can play the same program again.

## 💡 You can do Repeat Play or Shuffle Play of the programmed titles, chapters or tracks

During Program Play, press REPEAT or SHUFFLE.

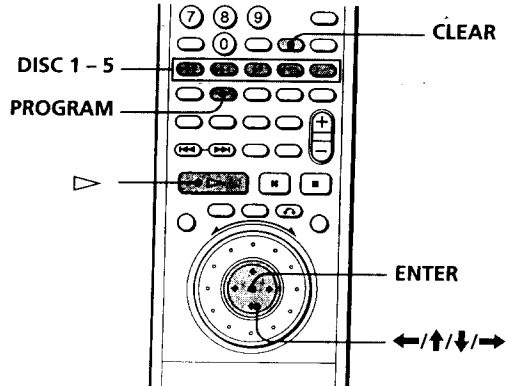
## Notes

- The number of titles, chapters or tracks displayed are that of the titles, chapters or tracks recorded on a disc.
- The program is canceled when:
  - you open or close the disc tray
  - you turn the power off
- You may not be able to do Program Play depending on the DVD.
- While you are doing PBC playback, you cannot set a program unless you stop playback once.

## Creating Your Own Program (Program Play)

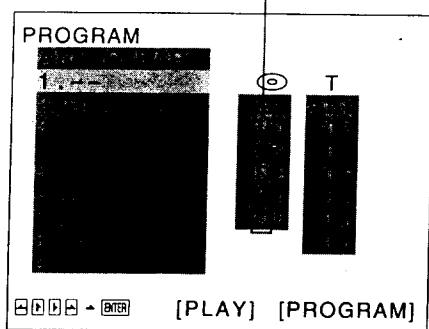


You can arrange the order of the titles, chapters or tracks on one disc or on all discs, and create your own program. The program can contain up to 99 titles, chapters and tracks.



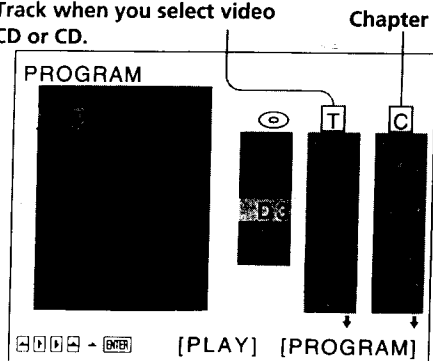
- 1 Press PROGRAM.  
The programming display appears.  
On the front panel display, "STEP 1" appears. The STEP number indicates the program number currently selected.

Disc (D=DVD, V=Video CD, C=CD, ? is for unknown disc since it is not played yet.)

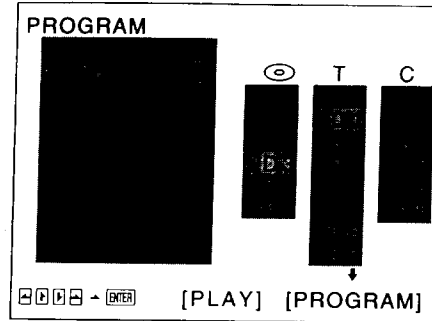


- 2 Select the disc you want to program using  $\uparrow/\downarrow$ , then press ENTER.

Title when you select DVD.  
Track when you select video CD or CD.



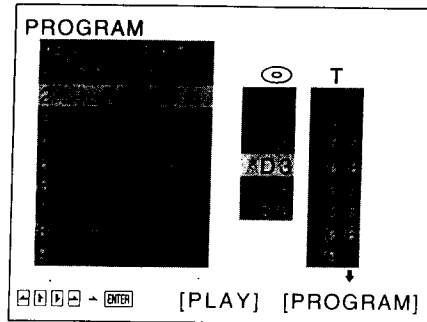
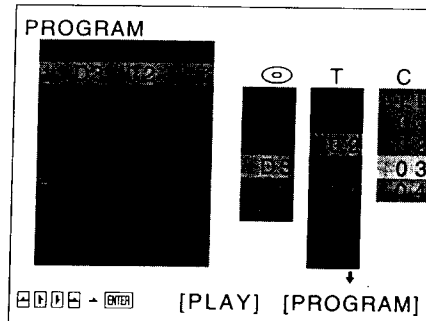
- 3 Press  $\rightarrow$ .  
"01" is highlighted.



- 4 Select the title, chapter or track you want to program using  $\uparrow/\downarrow$ , then press ENTER.  
For example, select title or track 2.  
(You can also use the number buttons and ENTER button to select. In this case, the selected number is displayed on the screen.)

### ■ When selecting a DVD

When both titles and chapters are recorded on the disc, select the title, then the chapter.

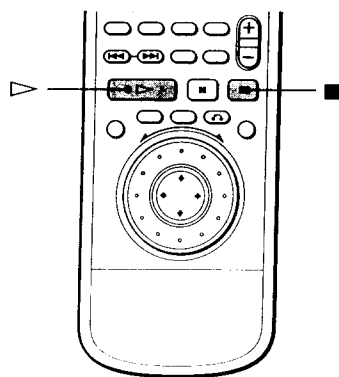


(Continued)

## Resuming Playback from the Point Where You Stopped a Disc (Resume Play)



The player stores the point where you stopped a disc if "RESUME" appears on the front panel display. In this case, you can resume playback from that point. As long as you do not open the disc tray, Resume Play is available even if you turn the power off.



- 1 While playing a disc, press ■ to stop playback. "RESUME" appears in the front panel display and "When playing next time, disc restarts from point you stopped." appears on the TV screen. If "RESUME" does not appear, Resume Play is not available.

- 2 Press ▷.  
The player starts playback from the point you stopped the disc in Step 1.



### To play from the beginning of the disc

When "RESUME" appears on the front panel display before you start playing, press ■ to turn off "RESUME," then press ▷.

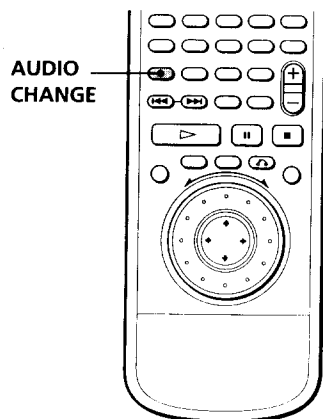
### Notes

- You may not do Resume Play depending on the DVD.
- Resume Play is not available in Shuffle or Program Play mode.
- Depending on where you stopped the disc, the player may resume playback from a different point.
- The point where you stopped playing is cleared when:
  - you open or close the disc tray
  - you disconnect the AC power cord
  - you change the play mode
  - you start playback after selecting a title, chapter or track
  - you change the settings of "DVD MENU", "AUDIO" or "SUBTITLE" in "LANGUAGE SETUP" in the setup display
  - you change the settings of "TV TYPE", "PARENTAL CONTROL" in "INITIAL SETUP 1" in the setup display
  - you pressed the MEGA CONTROL button (page 35).

## Changing the Sounds

**DVD** **VIDEO CD** **CD**

With DVDs on which multilingual sounds are recorded, you can select the language you want while playing the DVD.  
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 CHANGE 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

AUDIO 1 → AUDIO 2 → .....

AUDIO  
3: PORTUGUESE

### ■ When playing a VIDEO CD or a CD

1/L : The sound of the left channel

2/R : The sound of the right channel

STEREO (1/L 2/R) : The standard stereo sound

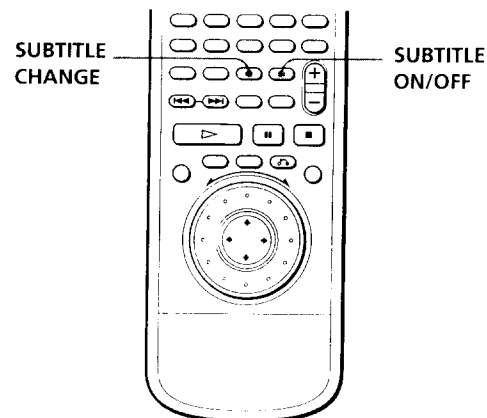
### Notes

- Depending on the DVD, you may not be able to change the languages even if multilingual sounds are recorded on the DVD.
- While playing the CD/VIDEO CD, the standard stereo playback will be resumed when:
  - you open or close the disc tray
  - you turn the power off
- While playing the DVD, the sound may be changed when:
  - you open or close the disc tray
  - you change the title
- If the language is displayed as 4 digits number, refer to the language code list in page 57.

## Displaying the Subtitles

**DVD**

With DVDs on which subtitles are recorded, you can turn the subtitles on and off whenever you want while playing the DVD. With DVDs on which multilingual subtitles are recorded, you can change the subtitle language whenever you want while playing the DVD.



### Turning the Subtitles On and Off

Press SUBTITLE ON/OFF while playing a DVD.  
Subtitles appear on the TV screen.

### To turn off the subtitles

Press SUBTITLE ON/OFF again.

### Notes

- When playing the DVD on which no subtitles are recorded, no subtitles appear even if you press SUBTITLE ON/OFF.
- Depending on the DVD, you may not be able to turn the subtitles on even if they are recorded on the DVD.
- Depending on the DVD, you may not be able to turn the subtitles off.
- If the language is displayed as 4 digits number, refer to the language code list in page 57.

## Changing the Subtitle Language

When subtitles are turned off, press SUBTITLE ON/OFF to turn on the subtitles.

While playing a DVD, press SUBTITLE CHANGE repeatedly until the subtitles you want appear on the TV screen.

SUBTITLE 1 → SUBTITLE 2 → ...

SUBTITLE  
1: ENGLISH

### Notes

The type and number of languages for subtitles vary from disc to disc.

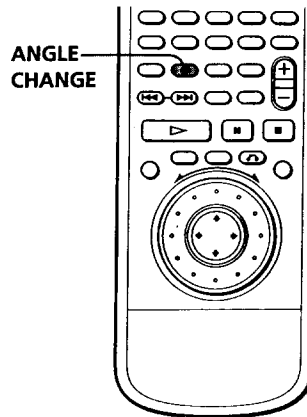
Depending on the DVD, you may not be able to change the subtitles even if multilingual subtitles are recorded on the DVD.

While playing the DVD, the subtitle may be changed when:

- you open or close the disc tray
- you change the title

## Changing the Angles DVD

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



When "ANGLE" appears on the front panel display while playing a DVD, press ANGLE CHANGE repeatedly until you get the angle you want.



ANGLE 1 → ANGLE 2 → ...

ANGLE  
1



### You can specify the angle beforehand

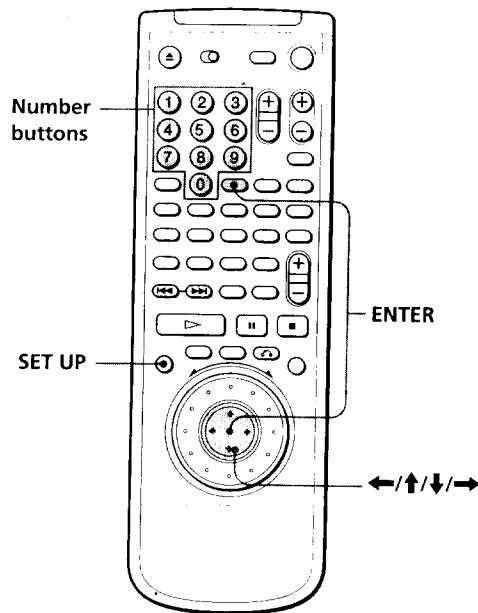
Specify the angle when "ANGLE" is not displayed on the front panel display. When a scene on which multi-angles are recorded comes, the angle is automatically selected.

### Notes

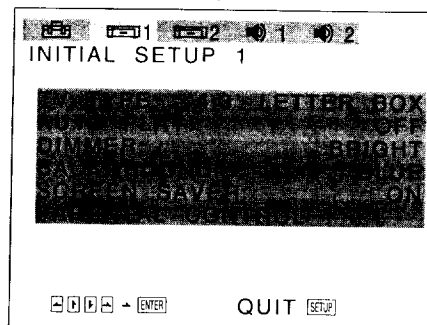
- The number of angles varies from disc to disc or from scene to scene. The number of angles that can be changed on a scene is that of angles recorded for that scene.
- Depending on the DVD, you may not be able to change the angles even if multi-angles are recorded on the DVD.

## Limiting Playback by Children (Parental Control) DVD

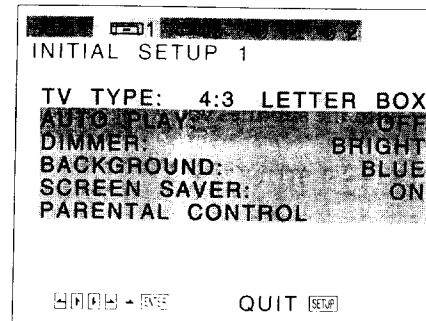
Playing some DVDs can be limited depending on the age of users. The "Parental Control" function allows you to set a playback limitation level.



- 1 Press SET UP to display the setup display on the TV screen before playing.

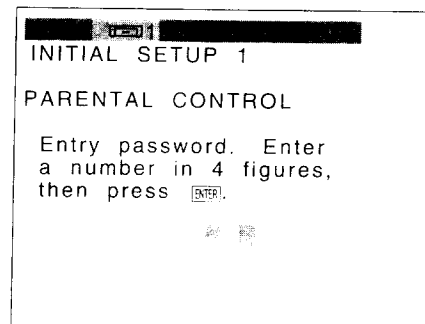


- 2 Select "INITIAL SETUP 1" using  $\leftarrow/\rightarrow$ , then press  $\downarrow$  or ENTER.

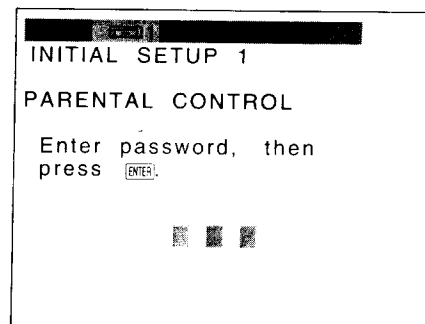


- 3 Select "PARENTAL CONTROL" using  $\uparrow/\downarrow$ , then press ENTER.

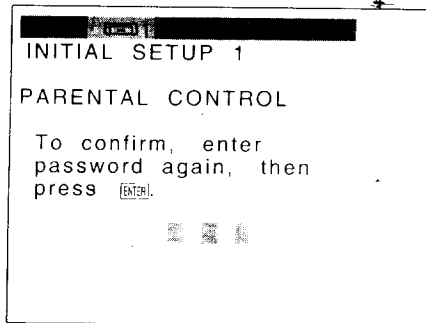
■ When you have not entered a password yet  
The display for entering a password appears.



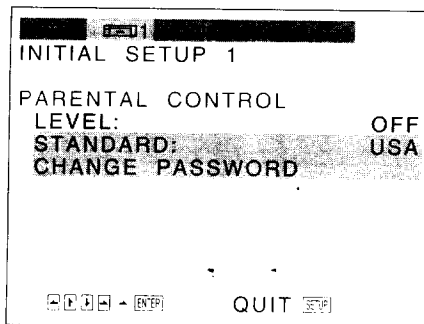
■ When you have already entered a password  
The display for confirming the password appears. Skip Step 4.



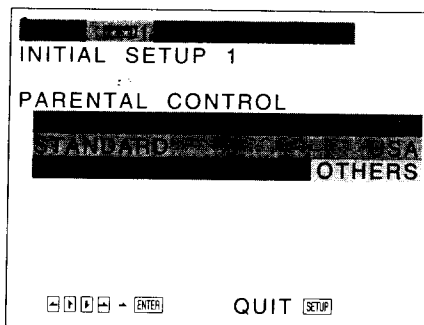
- 4** Enter a password in 4 figures using the number buttons, then press ENTER.  
The figures change to asterisks (\*), and the display for confirming the password appears.



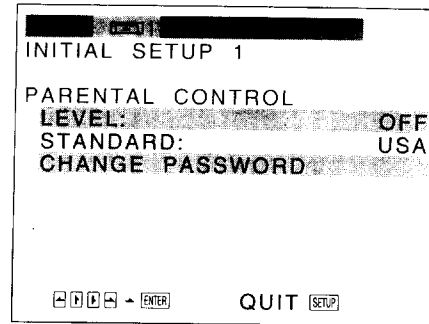
- 5** To confirm your password, enter it using the number buttons, then press ENTER.  
The display for setting the playback limitation level and changing the password appears.



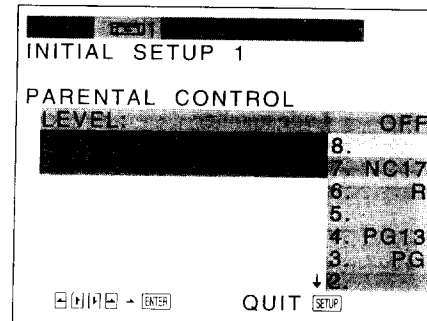
- 6** Select "STANDARD" using ↑/↓, then press →.



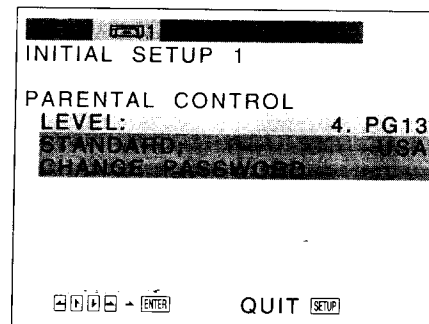
- 7** Select an area as the standard for playback limitation level using ↑/↓, then press →.  
When you select "OTHERS", select and enter the standard code in the table below using number buttons.



- 8** Select "LEVEL" using ↑/↓, then press →.



- 9** Select the level you want using ↑/↓, then press ENTER.



The lower the value is, the more strict the limitation.

## To return to the normal screen

Press SET UP.

## To turn off the Parental Control function and play the DVD after entering your password

Set "LEVEL" to "OFF" in Step 9, then press ▷.

(Continued)

## To change the password

- 1 In Step 5, select "CHANGE PASSWORD" using  $\uparrow/\downarrow$ , then press  $\rightarrow$  or ENTER.  
The display for changing the password appears.
- 2 Follow Steps 4 and 5 to enter a new password.

## If you have forgot your password

Enter 6 digits number "199703" in Step 4 to clear the current password. To enter a new password, follow the procedure from Step 4 again.

## Notes

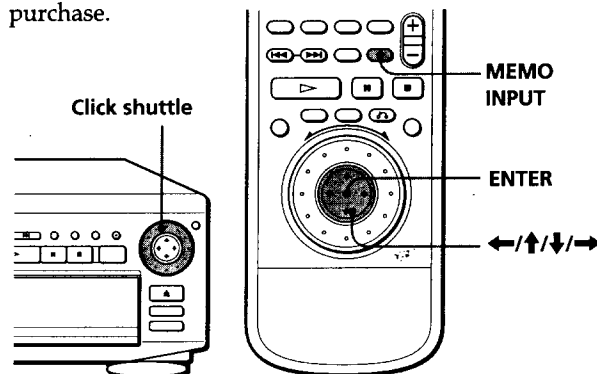
- When you play DVDs which do not have the Parental Control function, playback cannot be limited on this player.
- When you do not set a password, you cannot change the settings for playback limitation.
- Depending on the DVD, you may be asked to change the parental control level while playing the disc. In this case, enter the password, then change the level.  
When you stop playing the DVD, the level returns to the original level.

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

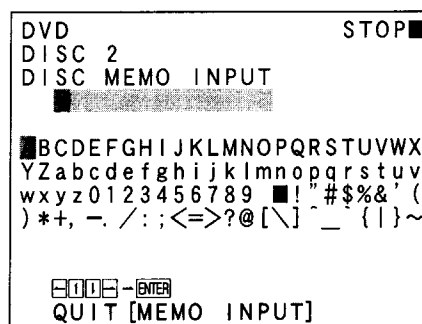
## Labeling Discs (Disc Memo)



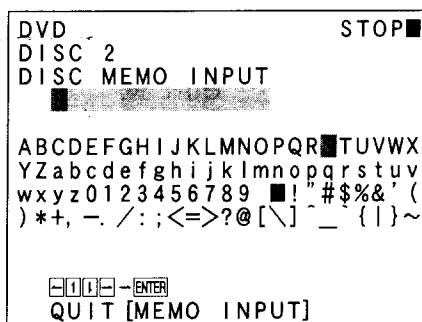
You can label discs using up to 13 characters and have the player display the Disc Memo each time you select the disc. The Disc Memo can be anything you like, such as a title, musician's name, category or date of purchase.



- 1 Insert or select the disc.
- 2 Press MEMO INPUT.  
The Disc Memo input display appears.



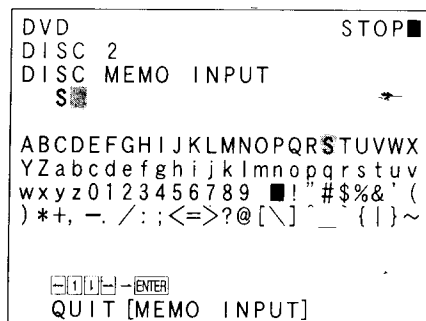
- 3 Select the character by pressing  $\uparrow/\downarrow/\leftarrow/\rightarrow$  or by turning the click shuttle.  
The selected character changes color.





## 4 Press ENTER.

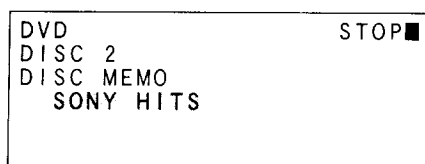
If you selected a wrong character, press CLEAR.



## 5 Repeat steps 3 and 4 to input other characters.

## 6 When you have entered the characters for the disc label, press MEMO INPUT.

The disc label is stored.



### ■ To correct the characters

- You can erase the last character one by one by pressing CLEAR.
- To insert or overwrite the characters:
  - Move the cursor to the character you want to correct by pressing ◀▶, ▶▶, or ◀◀.
  - Select the correct character by pressing ↑/↓/←/→ or by turning the click shuttle.
  - To insert the character, press ENTER.
    - To overwrite, don't press ENTER but move the cursor by pressing ▶▶.

## Erasing the disc memo

- Select the disc you want to erase the disc memo.
- Press MEMO INPUT.
- Press CLEAR in succession.

### ■ To erase the disc memo of all discs

While pressing CLEAR of the player, turn on the power.



### When you select a DVD TEXT or CD TEXT disc

The disc title is stored as the Disc Memo automatically. If the disc title has more than 13 characters, the first 13 characters of the disc title are stored.


Note that you cannot change the Disc Memo of the DVD TEXT or CD TEXT disc.

### Notes

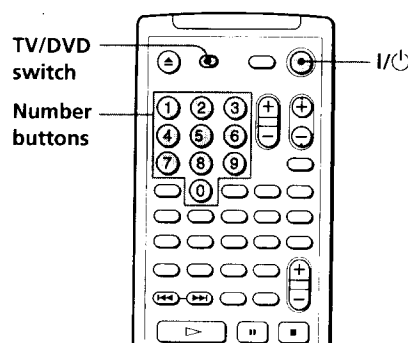
- You can label up to 64 discs.
- If power is disconnected for 6 hours, the disc label may be erased. Be careful when you operate this player by connecting a timer (not supplied).

## Controlling the TV or the AV Receiver with the Supplied Remote



If you adjust the remote signal, you can control your TVs with the supplied remote. Default setting is to control Sony TVs with the  mark.

When you connect the player to a Sony AV receiver, you can also set the input of the receiver to this player with the supplied remote.



## Controlling TVs with the remote

- Slide TV/DVD switch to TV.
- Hold down I/ON, and enter your TV's manufacturer's code in the table below using the number buttons. Then release I/ON.

### Code numbers of controllable TVs

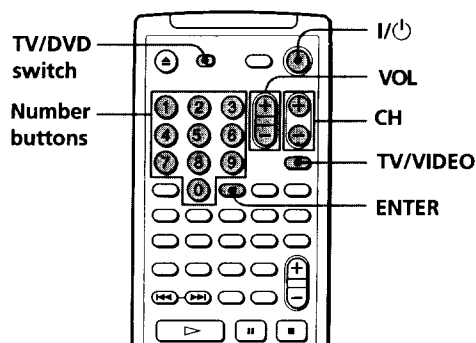
If more than one code number is listed, try entering them one at a time until you find the one that works with your TV.

### Notes

- If you enter a new code number, the code number previously entered will be erased.
- When you replace the batteries of the remote commander, the code number may reset to 01 (Sony). Reset the appropriate code number.

| Manufacturer     | Code number | Manufacturer | Code number |
|------------------|-------------|--------------|-------------|
| Sony (default)   | 01          | Panasonic    | 06,19       |
| Akai             | 04          | Philco       | 03,04       |
| AOC              | 04          | Philips *    | 08          |
| Centurion        | 12          | Pioneer      | 16          |
| Coronado         | 03          | Portland     | 03          |
| Curis-Mathes     | 12          | Quasar       | 06,18       |
| Daytron          | 12          | Radio Shack  | 05,14       |
| Emerson          | 03,04,14    | RCA          | 04,10       |
| Fisher           | 11          | Sampo        | 12          |
| General Electric | 06,10       | Sanyo        | 11          |
| Gold Star        | 03,04,17    | Scott        | 12          |
| Hitachi          | 02,03       | Sears        | 07,10,11    |
| J.C.Penny        | 04,12       | Sharp        | 03,05,18    |
| JVC              | 09          | Sylvania     | 08,12       |
| KMC              | 03          | Teknika      | 03,08,14    |
| Magnavox         | 03,08,12    | Toshiba      | 07          |
| Marantz          | 04,13       | Wards        | 03,04,12    |
| MGA/Mitsubishi   | 04,12,13,17 | Yorx         | 12          |
| NEC              | 04,12       | Zenith       | 15          |

When you set the TV/DVD switch to TV, you can control your TV using the keys below.



| By pressing              | You can                            |
|--------------------------|------------------------------------|
| I/⏻                      | Turn on or off the TV              |
| TV/VIDEO                 | Select the input source for the TV |
| VOL                      | Adjust the volume of the TV        |
| CH                       | Change the channel of the TV       |
| Number buttons and ENTER | Select the channel of the TV       |

## Note

Depending on the TV, you may not be able to control your TV or to use some buttons above.

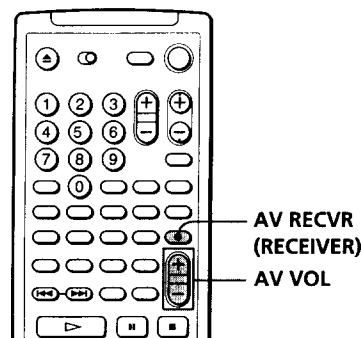
## Controlling a Sony AV receiver with the remote

- 1 Slide TV/DVD switch to DVD.
- 2 Hold down I/⏻, and enter your AV receiver's input connector code (see the table below) using the number buttons.\* Then release I/⏻.

| AV receiver connector    | Code number |
|--------------------------|-------------|
| VIDEO 1                  | 91          |
| VIDEO 2                  | 92          |
| VIDEO 3                  | 93          |
| AUX 1                    | 94          |
| LD/DVD (default setting) | 95          |
| AC-3                     | 96          |
| TV                       | 97          |

\* If you connect the player to the SONY Mini Hi-Fi Component system, enter "98".

When you press AV RECVR on the supplied remote, you can set the input of AV receiver to the player.\*\* You can also change the volume of the sound using AV VOL.



\*\* If you connect the player to the SONY Mini Hi-Fi Component system, press AV RECVR repeatedly to change the input of the system.

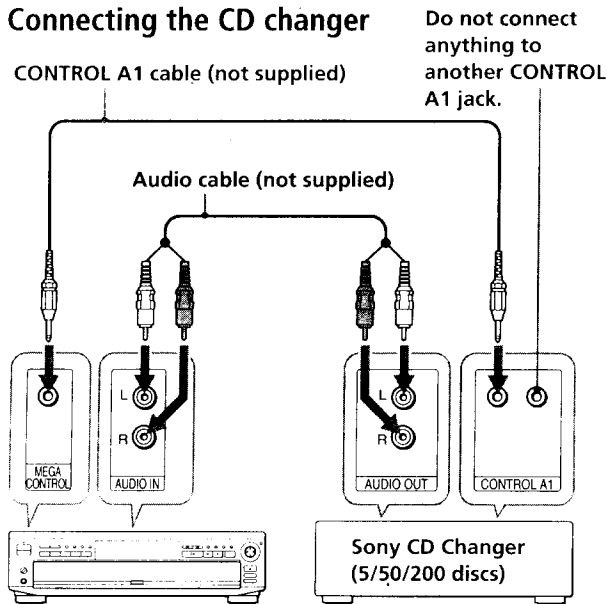
## Note

Depending on the AV receiver, you may not be able to control your AV receiver.

## Controlling the CD Changer (Mega Control)

This unit can control a Sony CD changer (5/50/200 discs) connected to the MEGA CONTROL jack of this unit.

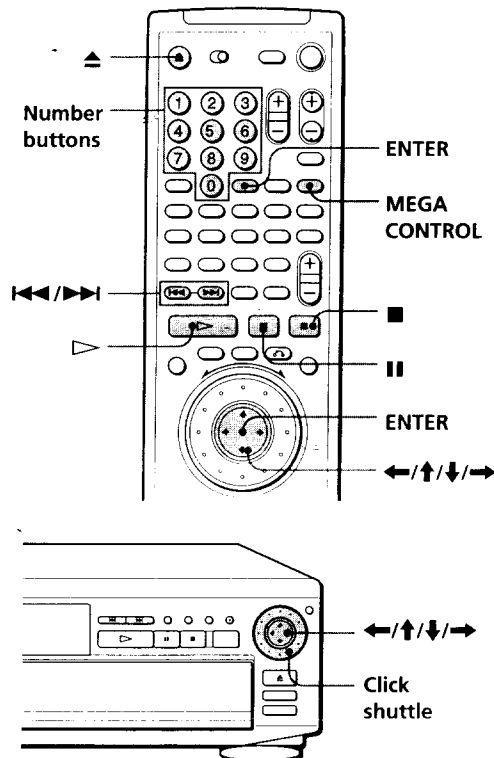
### Connecting the CD changer



This player

### Controlling the CD changer

The controls indicated below are effective while the MEGA CONTROL button is lit.



- 1 Set the command mode selector of the CD changer to "CD 3."
- 2 Turn on this player and the CD changer.
- 3 Press MEGA CONTROL.  
The MEGA CONTROL button of the front panel lights up and the display shows the current disc number of the CD changer.
- 4 Select the play mode you want on the CD changer.
- 5 Press  $\triangleright$  on this player to start playing.  
The playback starts and the display shows the current disc and track numbers and the playing time of the track.  
While the MEGA CONTROL button of the front panel is lit, you can control the CD changer with the controls on this player as follows:

| To   | Press   |
|--|---|
| Select a disc  | the number button and ENTER, or $\uparrow/\downarrow$ and ENTER, or turn the click shuttle of this player slowly. |
| Skip by 10 discs                                       | $\leftarrow/\rightarrow$ , or turn the click shuttle of this player quickly.                                      |
| Stop   | $\blacksquare$  |
| Pause  | $\parallel$   |
| Resume play after pause                                | $\parallel$ or $\triangleright$   |
| Go to the next track in Continuous Play mode           | $\triangleright\triangleright$  |
| Go back to the preceding track in Continuous Play mode | $\triangleleft\triangleleft$  |

### To control this player again

Press MEGA CONTROL.

The MEGA CONTROL button goes off and you can control this player.

### Notes

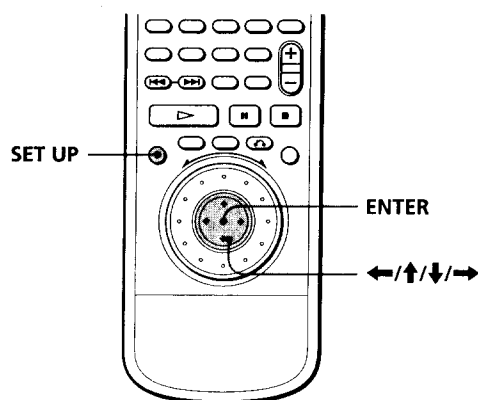
- Connect only Sony CD changer (5/50/200 discs) to the MEGA CONTROL jack.
- You cannot locate a particular point in a track of the CD changer using the controls on this player.
- Some controls on this player work on the CD changer differently from they do to this player.
- You cannot control this player when the MEGA CONTROL button on the front is on.
- This player does not do Resume Play after the MEGA CONTROL button on the front was turned on and off.
- You cannot control the CD changer right after turning on the player or connecting the CD changer. Wait a few seconds until the player recognizes the CDs.

## Using the Setup display

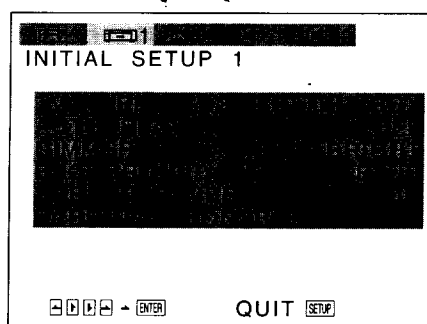
Using the setup display, you can do the initial setup, adjusting the picture and sound quality, setting the various outputs, etc. You can also set a language for the subtitles and the setup display, limit playback by children, etc.

For details on each setup display item, see pages 37 to 39. If you want to change the settings for 5.1 channel, see pages 40 to 45.

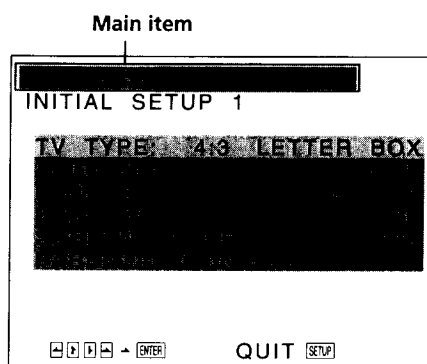
The setup display items are listed in page 56.



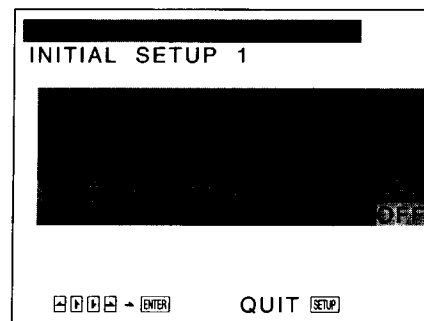
- 1 Press SET UP to display the setup display on the TV screen.



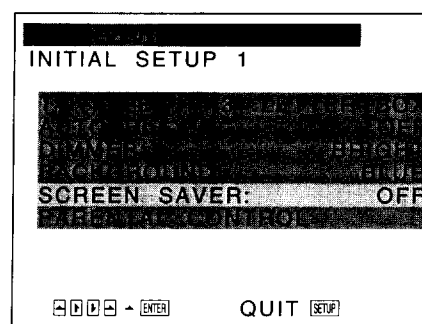
- 2 Select the main item you want using ←/→, and then press ENTER. The selected main item is highlighted.



- 3 Select the item you want using ↑/↓, then press → or ENTER.



- 4 Select the setting you want using ↑/↓, then press ENTER.



**To cancel using the setup display on the way**  
Press SET UP.

### Note

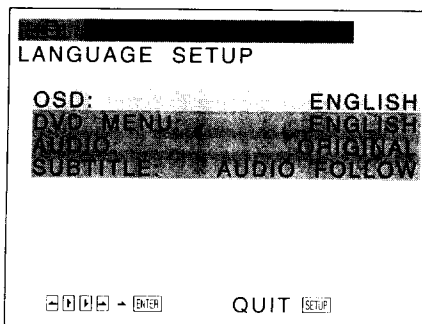
Some setup display items require operations other than selecting the setting. For details on these items, see the relevant pages.

## Setting the Language for Display and Sound (LANGUAGE SETUP)

Select "OSD" after pressing SET UP.  
"LANGUAGE SETUP" allows you to set various languages for on-screen display or sound.  
Default settings are underlined.

### Note

When you select a language that is not recorded on the DVD, one of the recorded languages is automatically selected except for "OSD".



### ■ OSD (On-Screen Display)

Switches the language for the on-screen display.

- ENGLISH
- FRENCH
- SPANISH

### ■ DVD MENU

Switches the language for the DVD menu.

- ENGLISH
- FRENCH
- SPANISH
- ITALIAN
- GERMAN
- DUTCH
- PORTUGUESE
- CHINESE
- JAPANESE
- OTHERS➔

When you select "OTHERS," select and enter the language code from the list using the number buttons (page 57).

### ■ AUDIO

Switches the language for the sounds.

- ORIGINAL : the language given the priority in the disc
- ENGLISH
- FRENCH
- SPANISH
- ITALIAN
- GERMAN
- DUTCH
- PORTUGUESE
- CHINESE
- JAPANESE
- OTHERS➔

When you select "OTHERS," select and enter the language code from the list using the number buttons (page 57).

### ■ SUBTITLE

Switches the language for the subtitles.

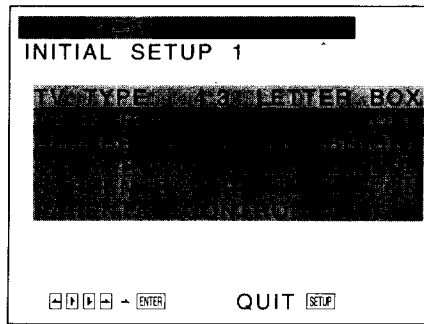
- AUDIO FOLLOW\*
- ENGLISH
- FRENCH
- SPANISH
- ITALIAN
- GERMAN
- DUTCH
- PORTUGUESE
- CHINESE
- JAPANESE
- OTHERS➔

When you select "OTHERS," select and enter the language code from the list using the number buttons (page 57).

\* When you select "AUDIO FOLLOW," the language for the subtitles change according to the language for the sound.

## Settings for Display (INITIAL SETUP 1)

Select "1" after pressing SET UP.  
"INITIAL SETUP 1" allows you to set the display according to the playback conditions.  
Default settings are underlined.



### ■ 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. Displays the wide picture with bands displayed on the upper and lower portions of the screen.
- 4:3 PAN SCAN: when you connect a normal TV to the player. Displays the wide picture on the whole screen with a portion automatically cut off.
- 16:9: when you connect a wide-screen TV to the player.

4:3 LETTER BOX



4:3 PAN SCAN



16:9



### Note

Depending on the DVD, "4:3 LETTER BOX" may be selected automatically instead of "4:3 PAN SCAN" and vice versa.

### ■ AUTO PLAY

Selects the setting of Auto Play when you connect the AC power cord to the AC outlet.

- OFF: does not use "TIMER", "DEMO1" or "DEMO2" to start playing.
- TIMER: starts playing a disc automatically when you connect the AC power cord to the AC outlet. By connecting a timer (not supplied), you can start playing at any time you want.
- DEMO1: starts playing the demonstration 1 automatically.
- DEMO2: starts playing the demonstration 2 automatically.

### ■ DIMMER

Adjusts the lighting of the front panel display.

- BRIGHT: makes the front panel display bright.
- DARK: makes the front panel display dark.
- OFF: turns off the lighting of the front panel display.

### ■ BACKGROUND

Selects the background color of the TV screen in stop mode.

- BLUE: The background color is blue.
- BLACK: The background color is black.

### ■ SCREEN SAVER

Turns on and off the screen saver. If you turn on the screen saver, the screen saver image appears when you leave the player or the remote in pause or stop mode for 15 minutes. The screen saver is useful to prevent your display from damage.

- ON: turns on the screen saver.
- OFF: turns off the screen saver.

### ■ PARENTAL CONTROL

Sets a password and playback limitation level when you play DVDs with playback limitation for children.

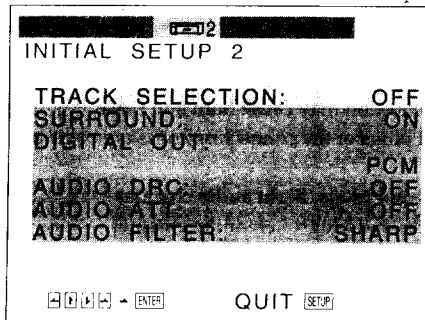
For details, see page 30.

## Settings for Sound (INITIAL SETUP 2)

Select "2" after pressing SET UP.

"INITIAL SETUP 2" allows you to set the sound according to the playback conditions.

Default settings are underlined.



### ■ TRACK SELECTION

Gives the Dolby Digital (AC-3) format priority when you play a DVD on which multiple audio formats are recorded. If multiple audio channels are recorded in Dolby Digital (AC-3) format, the higher-numbered channel audio recorded in Dolby Digital (AC-3) format is played.

- OFF: No priority given.
- AUTO: Priority given.

#### Notes

- When you set this item to "AUTO", the language set in "AUDIO" in "LANGUAGE SETUP" may change. The "TRACK SELECTION" setting has higher priority than that of "AUDIO" settings in "LANGUAGE SETUP" (page 37).
- Depending on the DVD, the audio with priority may be predetermined. In this case, you cannot give priority to the Dolby Digital (AC-3) format by selecting "AUTO."

### ■ SURROUND\*

Switches the mixing down methods when you play a DVD on which the sound in Dolby Digital (AC-3) format is recorded.

- ON: when the player is connected to an audio component that conforms to Dolby surround, Dolby Pro Logic surround, etc.
- OFF: when the player is connected to a normal audio component.

\* The setting affects the connectors as follows:

- LINE OUT (AUDIO 1, 2) connectors
- DIGITAL OUT (OPTICAL, COAXIAL) connectors.

### ■ DIGITAL OUT

Switches the methods of outputting audio signals from the DIGITAL OUT OPTICAL and COAXIAL connectors on the rear panel of the player.

- PCM: when the player is connected to an audio component without a built-in Dolby Digital (AC-3) decoder  
If you play the Dolby Digital (AC-3) sound track, the player outputs no sound.
- DOLBY DIGITAL/PCM: when the player is connected to audio component with a built-in Dolby Digital (AC-3) decoder
- D-PCM (Downmix PCM): when you play the Dolby Digital (AC-3) sound tracks, the output audio signals are mixed down to 2 channels. By the settings of the item "SURROUND," you can select whether the signals contain the surround component or not. The output audio signals from the 5.1CH OUTPUT connectors are also mixed down in the same way. To enjoy the original Dolby Digital (AC-3) sound through the 5.1CH OUTPUT connectors, do not set this item to "D-PCM."

#### Note

Select the setting correctly. Otherwise, no sound or strange sound will come out from the speakers, affecting your ears or causing the speakers to be damaged.

### ■ AUDIO DRC (Dynamic Range Control)

Makes the sound clear with the volume turned down at night, etc. when you play a DVD. This affects the output from the DIGITAL OUT connectors only when "DIGITAL OUT" in "INITIAL SETUP 2" is set to "PCM," the output from the LINE OUT (AUDIO 1,2), and 5.1CH OUTPUT connectors.

- OFF: Normally select this position.
- ON: makes the sound clear even if you turned the volume down.

#### Note

When you play DVDs without the AUDIO DRC function, there may be no effect on the sound.

### ■ AUDIO ATT (attenuation)

Selects the setting of the output from the LINE OUT (AUDIO 1, 2) and 5.1CH OUTPUT connectors according to audio equipment to be connected.

- OFF: turns off the audio attenuation.
- ON: reduces the audio output level so that no sound distortion occurs.

#### Note

The setting does not affect the output from the DIGITAL OUT OPTICAL and COAXIAL connectors.

### ■ AUDIO FILTER

Selects the type of digital filter to reduce the noise higher frequency than 22.05kHz (fs 44.1kHz), 24kHz (fs 48kHz) or 48kHz (fs 96kHz).

- SHARP: makes the sound clear and provides smooth sound reproduction. Normally set this position.
- SLOW: makes the sound warm and deep.

#### Note

Depending on the disc, there may be no effect on the sound.

## What is Dolby Digital Surround?

Some DVDs have up to 5.1 channel soundtrack recorded in Dolby Digital (AC-3) format. Using an amplifier with 5.1 channel inputs and the 5 (+1\*) speakers, you can enjoy more real audio presence in the comfort of your own home.

Even if you have fewer than 5 (+1\*) speakers, the player distributes the output signal to the speakers appropriately.

You can also enjoy the VES (Virtual Enhanced Surround) system using the DCS (Digital Cinema Sound) method that Sony developed. The VES system realize surround sound only with front speakers.

\* Subwoofer

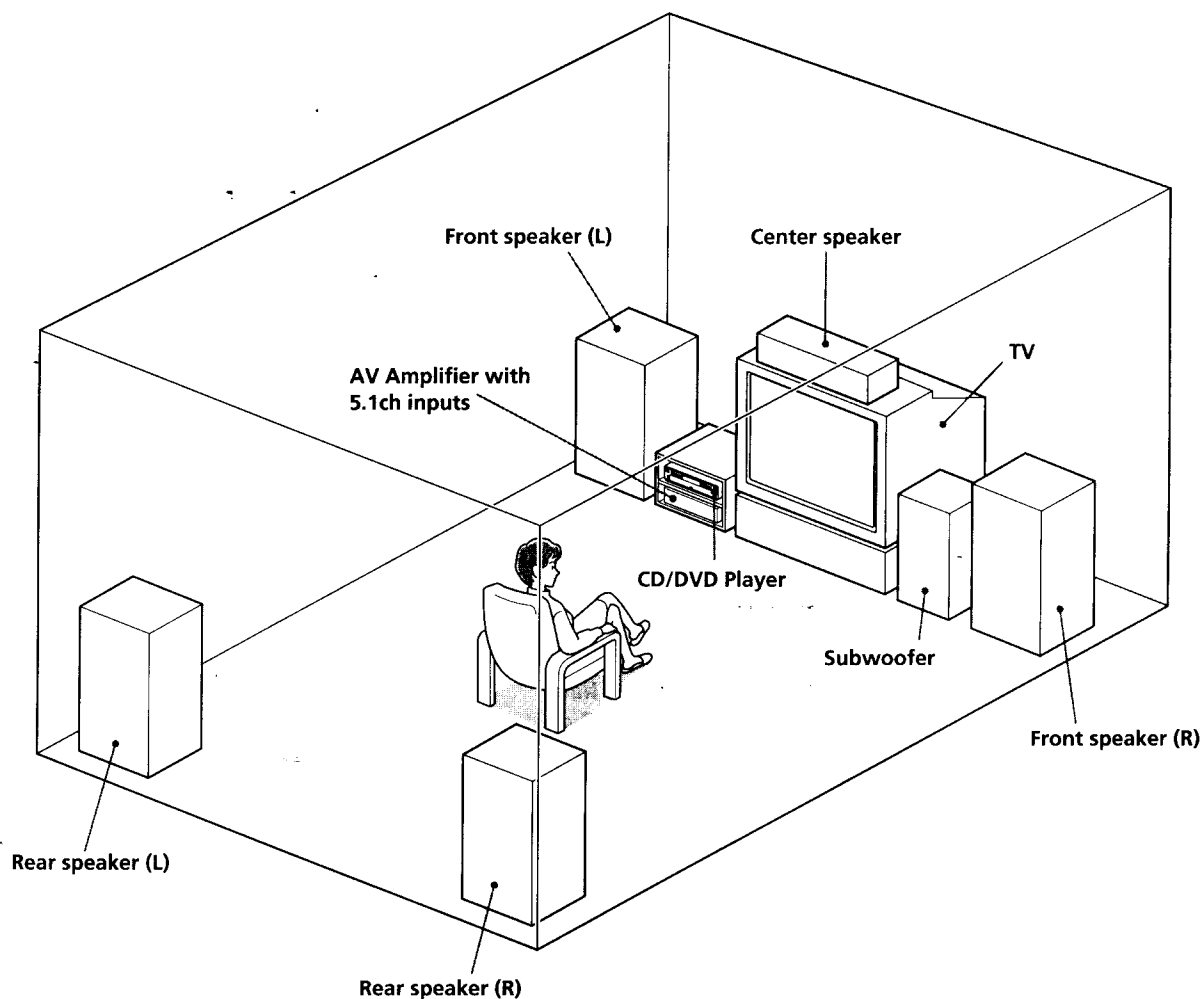
## Speaker System Hookups

### Hookups

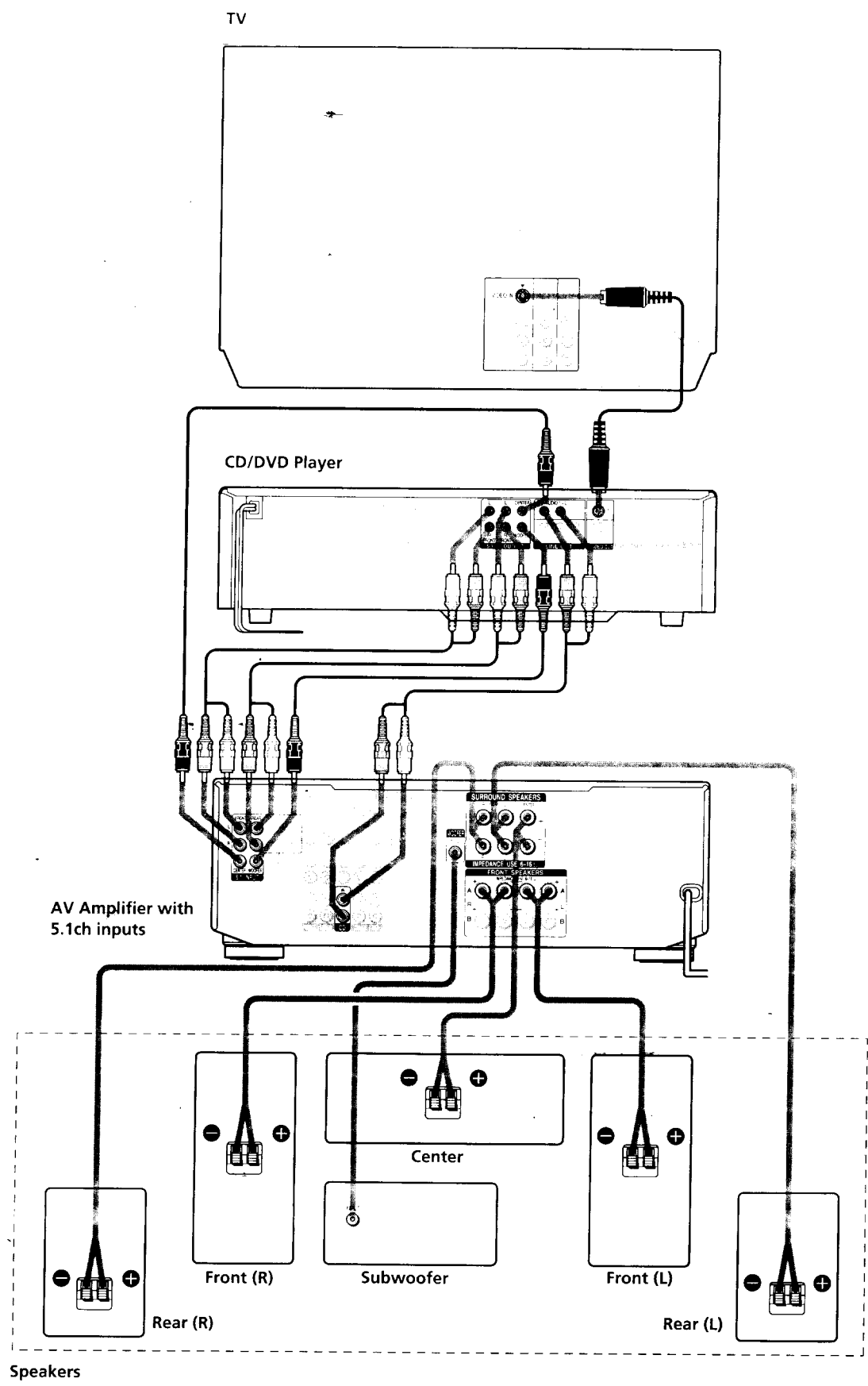
Connect an amplifier with 5.1 channel inputs to the player and to the speakers. See the figure on the next page.

### Notes on connection

- Do not connect the power cord to an AC outlet or press the I/⏻ switch before completing all connections.
- The cable connectors should be fully inserted into the jacks. Loose connection may cause hum and noise.
- Jacks and plugs of the connecting cords are color-coded as follows:  
Red jacks and plugs: Right audio channel  
White jacks and plugs: Left audio channel  
You can use either red or white cables to connect the center speaker and sub woofer.







## Speaker Placement

For the best possible surround sound, we recommend the following conditions.

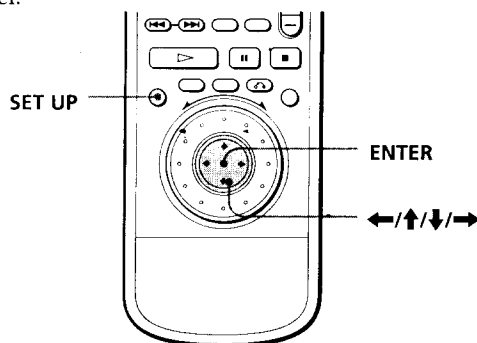
- Use higher performance speakers.
- Use rear and center speakers that match your front speakers in size and performance.
- All speakers should be the same distance from the listening position.
- Place the subwoofer between the front (L, R) speakers if possible.

### Note

Do not place the center or rear speakers farther away from the listening position than the front speakers.

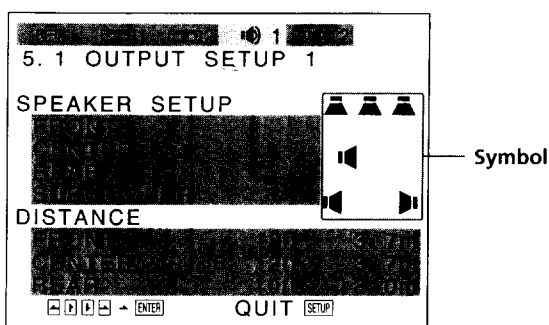
## Speaker Set Up

To obtain the best possible surround sound, first specify the type of speakers you have connected and their distance from your listening position. Then use the test tone to adjust the speaker volumes to the same level.



## Specifying the speaker type

- 1 Press SET UP and select "1," then press ENTER.
- 2 Select the speaker you want to adjust in "SPEAKER SETUP" and press ENTER.
- 3 Select the appropriate symbol for the speaker, then press ENTER.



### Note

When you select a symbol, the sound cuts off for a moment.

### ■ Front speaker, Center speaker, or Rear speaker

Generally, if you are utilizing large, full-range (large) speakers that effectively reproduce bass frequencies, select this symbol. This is default setting.

If you are utilizing small speakers with minimal (small) bass response, select this symbol.

If you will not connect the speaker, select this symbol. You cannot select this symbol for the front speakers.

The above speaker selections will activate the Dolby Digital bass redirection circuitry and output the bass frequencies to the appropriate speakers.

### ■ Sub woofer

If you connect a sub woofer, select this symbol to output the LFE (low frequency effects) channel from the sub woofer. This is default setting.

If you do not connect a sub woofer, select this symbol. This activates the Dolby Digital (AC-3) bass redirection circuitry and outputs the LFE signals from other speakers.

### Notes

- The cut off frequency for the subwoofer is fixed at 100Hz.
- Set the subwoofer's cut off frequency as high as possible.
- Depending on the settings of other speakers, the subwoofer may output excessive sound.
- The bass management options provided by the bass redirection circuitry in this player will optimize system set-up based on total system configuration selected. In some instances, independent speaker selections might be changed to reflect the most optimum multi-channel sound experience.
- If your speakers are too small to reproduce low bass frequencies, please set all speaker setting to "▲" (small) and utilize a subwoofer for low frequency sound.

## Specifying the speaker distance

- 1 Press SET UP and select "1," then press ENTER.
- 2 Select the speaker you want to adjust in "DISTANCE" and press ENTER.
- 3 Adjust the value using  $\uparrow/\downarrow$ , then press ENTER.

### Note

When you set the distance, the sound cuts off for a moment.

You can vary the distance of each speaker as follows. Default adjustments are in the brackets.

### ■ Front speaker (12ft. 3.7m)

- Front speaker distance can be set in 1 foot (0.3 meter) steps from 4 to 50 feet (1.2 to 15.2 meters).
- If both speakers are not placed an equal distance from your listening position, set the distance of the closest speaker.

### ■ Center speaker (12ft. 3.7m)

Center speaker distance can be set in 1 foot (0.3 meter) steps from a distance equal to the front speaker distance to a distance 4 feet (1.2 meter) closer to your listening position.

### Note

Do not place the center speaker farther away from your listening position than the front speakers.

### ■ Rear speaker (10ft. 3.0m)

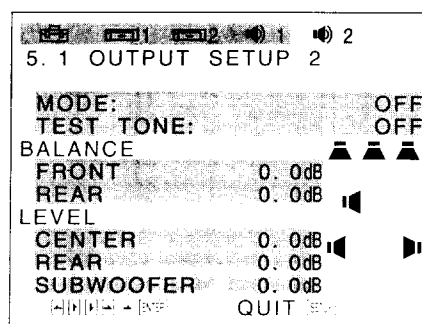
- Rear speaker distance can be set in 1 foot (0.3 meter) steps from a distance equal to the front-speaker distance to a distance 16 feet (4.9 meters) closer to your listening position.
- If both speakers are not placed an equal distance from your listening position, set the distance of the closest speaker.

### Note

Do not place the rear speaker farther away from your listening position than the front speakers.

## Adjusting the speaker volume

- 1 While you stop playback, press SET UP and select "2," then press ENTER.
- 2 Set "TEST TONE" to "ON."  
You will hear the test tone from each speaker in sequence.
- 3 From your listening position, adjust the value of "BALANCE" and "LEVEL" using  $\uparrow/\downarrow$  and ENTER.  
During this adjustment, the test tone is emitted from both speakers simultaneously.
- 4 Set "TEST TONE" to "OFF" to turn off the test tone.



### Note

While you are playing a disc, you cannot hear the test tone.

You can vary the balance and the level of each speaker as follows. Default adjustments are in the brackets.

### ■ Front speaker balance (0dB)

Adjust the balance between the front left and right speakers (-8dB [L] ~+8dB [R], 0.5dB steps).

### ■ Rear speaker balance (0dB)

Adjust the balance between the rear left and right speakers (-8dB [L] ~+8dB [R], 0.5dB steps).

### ■ Center speaker level (0dB)

Adjust the level of the center speaker (-20dB ~+6dB, 0.5dB steps).

### ■ Rear speaker level (0dB)

Adjust the level of the rear speakers (-20dB ~+6dB, 0.5dB steps).

### ■ Sub woofer level (0dB)

Adjust the level of the sub woofer (-10dB ~+6dB, 0.5dB steps). The test tone does not be output from the subwoofer.

### To adjust the volume of all the speakers at one time

Use the amplifier's volume control.

### To return to the default setting

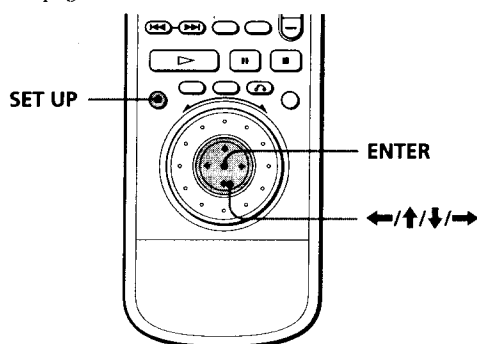
Select the symbol or the item, then press CLEAR.

## Setting for Dolby Digital Surround

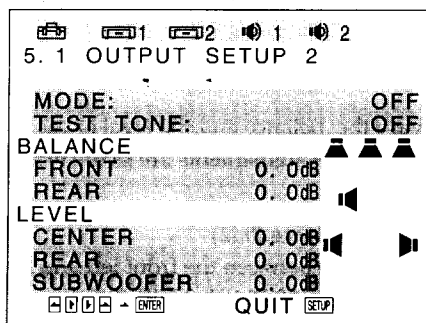
To enjoy Dolby Digital Surround sound, set the output signal from the 5.1 channel output connectors.

### Note

To enjoy the original Dolby Digital (AC-3) sound through the 5.1CH OUTPUT connectors, do not set "DIGITAL OUT" to "D-PCM" under "INITIAL SETUP 2" in the setup display. For details, see page 39.



- 1 Press SET UP and select "2," then press ENTER.
- 2 Set "MODE" to the desired item.



Default setting is "OFF."

### MODE

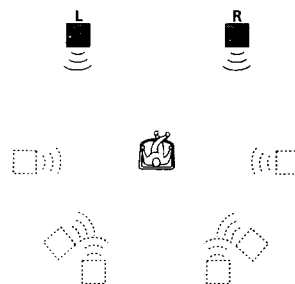
- **OFF**: outputs all channel signals recorded on the DVD. When you connect fewer than 5 (+1) speakers, the player distributes the output signal for the missing speaker to other speakers appropriately. When you play a CD or a VIDEO CD, outputs the stereo signal to the front speakers.
- **PRO LOGIC**: outputs the Pro Logic processed signals when the input signals are stereo.
- **VES A\***: uses 3D sound imaging to create virtual rear speakers from the sound of the front speakers (L, R) without using actual rear speakers. The virtual speakers are reproduced as shown in III. 1.
- **VES B\***: uses 3D sound imaging to create virtual rear speakers from the sound of the front speakers (L, R) without using actual rear speakers. The virtual speakers are reproduced as shown in III. 2.

\* These settings also affect the output from the LINE OUT (AUDIO 1, 2) connectors.

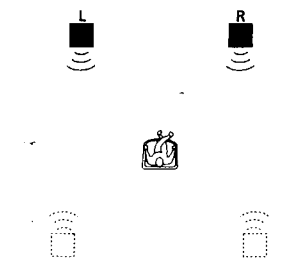
### Notes

- When you select an item, the sound cuts off for a moment.
- When you select "PRO LOGIC", the sound may only come from the center speaker depending on the disc.
- When the playing signal does not contain the surround component, the effects may be difficult to hear even if you select "PRO LOGIC", "VES A" or "VES B." In this case, set this item to "OFF".
- If the sound distortion occurs when you select "PRO LOGIC", "VES A" or "VES B," set this item to "OFF".
- If you connect the front speakers only, there is no surround effects even if you select "PRO LOGIC."
- When you select "VES A" or "VES B," you cannot adjust the level or the balance of the speakers except for the front speakers.
- If both the front speakers are not placed an equal distance from your listening position, the effects may be difficult to hear even though you select "VES A" or "VES B."
- The setting "PRO LOGIC" affects only when:
  - you play a CD/VIDEO CD
  - you play the PCM sound track on a DVD
  - you play the "DOLBY DIGITAL 2/0" sound track on a DVD.

### III.1 VES (Virtual Enhanced Surround) A

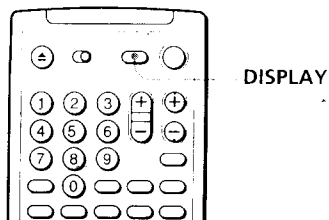


### III.2 VES (Virtual Enhanced Surround) B

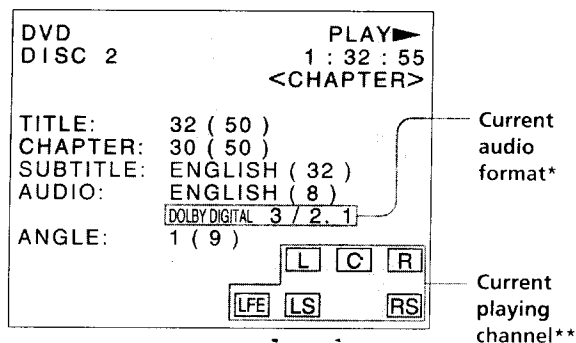


## To display the playing channels

You can display the playing channels on the screen. In Dolby Digital (AC-3) format, the signals from monaural to 5.1 channel can be recorded on a DVD. Depending on the DVD the numbers of the recorded channels are different.

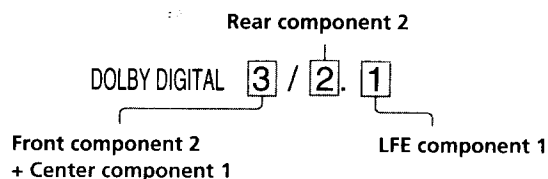


Press DISPLAY repeatedly until the channel display appears.



\* "PCM" or "DOLBY DIGITAL" is displayed. In "DOLBY DIGITAL" case, the channels in the playing track are displayed by number as follows:

The case of Dolby Digital (AC-3) 5.1 ch:



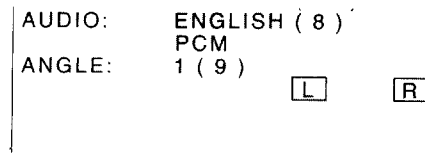
\*\* The playing channel shows the signals from 5.1CH OUTPUT connectors on the assumption that five speakers are connected to the amplifier. The letters in the channel display mean the following:

- L: Front (L)
- R: Front (R)
- C: Center (monaural)
- LS: Rear (L)
- RS: Rear (R)
- S: Rear (monaural sound comes from both of the left and right rear speakers)
- LFE: – displayed only when the LFE (Low Frequency Effects) signal is playing

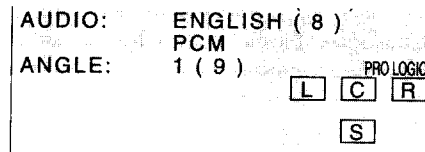
If "S" is displayed in gray, you can enjoy the surround effect when you set "MODE" under "5.1 OUTPUT SETUP 2" to "PRO LOGIC," "VES A" or "VES B" in the setup display. This affects only when the current audio format is "DOLBY DIGITAL 2/0."

The display examples are as follows:

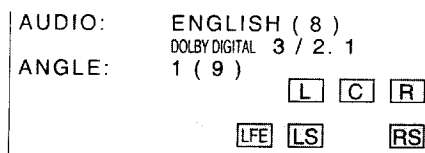
• PCM (stereo)



• PRO LOGIC (PCM)



• Dolby Digital (AC-3) 5.1ch



**You can find Dolby Digital encoded software by looking at the packaging**

Use discs with the logo. In order to enjoy Dolby Digital (AC-3) playback you must use discs bearing this logo.

### Note

The DOLBY DIGITAL indicator turns off when:

- you insert a CD or a VIDEO CD.
- the current audio format is PCM or MPEG Audio.

### Precautions

#### On safety

- Caution – The use of 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.
- Should any object fall between the disc compartment and the disc tray, first disconnect the AC power cord and then remove the object.

#### On power sources

- The player is not disconnected from the AC power source (mains) as long as it is connected to 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. To disconnect the AC power cord (mains lead), grasp the plug itself; never pull the cord.
- Should the AC power cord (mains lead) need to be changed, have it done at a qualified service shop only.

#### On placement

- Place the player in a location with adequate ventilation to prevent heat build-up in the player.
- Do not place the player on a soft surface such as a rug that might block the ventilation holes on the bottom.
- Do not place the player in a location near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock.

#### 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 half an hour until the moisture evaporates.

#### On adjusting 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.

#### On cleaning

- 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 benzene.

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

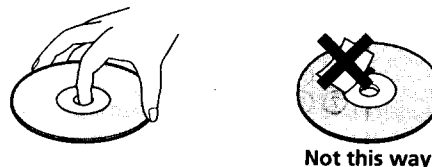
#### IMPORTANT NOTICE

Caution: The enclosed DVD Player is capable of holding a still video image or Setup display image on your television screen indefinitely. If you leave the still video image or Setup display 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 stick paper or tape on the disc.  
If there is glue (or a similar substance) on the disc, remove the glue completely before using the disc.



- 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.

#### On cleaning

- Before playing, clean the disc with a cleaning cloth. Wipe the disc from the center out.



- Do not use solvents such as benzene, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.

## 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 indicator above the I/⏻ button is not lit, check that the AC power cord is connected securely.

### There is no picture.

- ➔ Check that the player is connected securely.
- ➔ The video connecting cord is damaged. Replace it with a new one.
- ➔ Make sure you connect the player to the video input connector on the TV. (page 6)
- ➔ 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 cord is damaged. Replace it with a new one.
- ➔ Make sure you connect the player to the audio input connectors on the amplifier. (page 6)
- ➔ Make sure you turn on the TV and 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 normal play mode.
- ➔ Fast forward (FF1 or FF2) or fast reverse (FR1 or FR2) is performed. Press ▷ to return to normal play mode.
- ➔ Check the speaker connections and settings. (page 41) Refer to the operating manual of your amplifier.
- ➔ When you play the Dolby Digital (AC-3) sound tracks and attempt to output from the DIGITAL OUT connectors, set "DIGITAL OUT" to "D-PCM" under "INITIAL SETUP 2" in the setup display. Otherwise no sound will come out from the DIGITAL OUT connectors. (page 39)

### 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.

### The picture noise appears.

- ➔ Clean the disc.
- ➔ If video from your DVD player has to go through your VCR to get to your TV, the copy-protection applied to some DVD programs could affect picture quality. If you still experience problems after checking your connections, please try connecting your DVD player directly to your TV's S-input, if your TV is equipped with these input. (page 7)

### The sound noise is heard.

- ➔ Clean the disc.

### The sound distortion occurs.

- ➔ In the setup display, set "AUDIO ATT" in "INITIAL SETUP 2" to "ON."

### The disc does not play.

- ➔ There is no disc inside ("INSERT DISC" appears on the TV screen). Insert a disc.
- ➔ Insert the disc with the playback side facing down on the disc tray correctly.
- ➔ Place the disc on the disc tray correctly.
- ➔ Clean the disc.
- ➔ The player cannot play CD-ROMs, etc. (page 5) Insert a DVD, a VIDEO CD, or CD.
- ➔ Check the region code of the DVD. (page 4)
- ➔ Moisture has condensed inside the player. Remove the disc and leave the player turned on for about half an hour. (page 46)

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

- ➔ Repeat Play, Shuffle Play or Program Play has been selected. Press CLEAR. (page 22 to 26)
- ➔ Resume Play has been selected. Press ■ on the front panel or on the remote before you start playing. (page 27)
- ➔ A title menu or a DVD menu automatically appears on the TV screen when you play your DVD, or a setup display automatically appears on the TV screen when you play your VIDEO CD with PBC functions.

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

- ➔ The Parental Control functions. (page 30)

### The player starts playing the DVD automatically.

- ➔ The DVD features the auto playback function.

### Playback stops automatically.

- ➔ Depending on the disc, the auto pause signal is recorded. While playing such a disc, the player stops playback at the signal.

**Stopping playback, Search, Slow-motion Play, Repeat Play, Shuffle Play or Program Play, etc., cannot be done.**

- ➔ Depending on the disc, you may not do some of the operations above.

**Messages do not appear on the TV screen in the language you want.**

- ➔ In the setup display, select the language for the on-screen display in "OSD" under "LANGUAGE SETUP." (page 37)

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

- ➔ Multilingual sound is not recorded on the DVD.
- ➔ Changing the language for the sound is prohibited on the DVD.

**The language for the sound changes automatically.**

- ➔ When you set the "TRACK SELECTION" in "INITIAL SETUP 2" to "AUTO" in the setup display, the language set in "AUDIO" in "LANGUAGE SETUP" may change. The "TRACK SELECTION" setting has higher priority than that of "AUDIO" settings. (page 37)

**The language for the subtitles cannot be changed when you play a DVD.**

- ➔ Multilingual subtitles are not recorded on the DVD.
- ➔ Changing the language for the subtitles is prohibited on the DVD.

**The subtitles cannot be turned off when you play a DVD.**

- ➔ Depending on the DVD, you may not be able to turn the subtitles off.

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

- ➔ Multi-angles are not recorded on the DVD.
- ➔ Change the angles when "ANGLE" appears on the front panel display. (page 29)
- ➔ Changing the angles is prohibited on the DVD.

**The aspect ratio of the screen cannot be changed even though you set "TV TYPE" in "INITIAL SETUP 1" in the setup display when you play a wide picture.**

- ➔ The aspect ratio is fixed on your DVD.
- ➔ If you connect the player with the S video cable, connect directly to the TV. Otherwise, you may not change the aspect ratio.
- ➔ Depending on the TV, you may not change the aspect ratio.

**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 disc.)

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

- ➔ "1/L" or "2/R" appears on the front panel display.  
On the remote, press AUDIO CHANGE repeatedly until "1/L 2/R" appears. (page 28)
- ➔ Make sure you connect the player appropriately. (page 10, 11)

**The surround effect is difficult to hear when you are playing a Dolby Digital (AC-3) sound track.**

- ➔ Check the speaker connections and settings. (page 42) Refer to the operating manual of your amplifier.
- ➔ Set "MODE" in "5.1 OUTPUT SETUP 2" to "OFF" in setup display. (page 44)
- ➔ Depending on the DVD, the output signal may not be the entire 5.1 channel but monaural or stereo even if the sound track is recorded in Dolby Digital (AC-3) format.

**The sound comes from the center speaker only.**

- ➔ Set "MODE" in "5.1 OUTPUT SETUP 2" to "OFF" in setup display. (page 44)
- ➔ Depending on the disc, the sound may come from the center speaker only.

**The player does not operate properly.**

- ➔ Static electricity, etc., may affect the player's operation.  
Disconnect the AC power cord once, then connect it again.

**The sound does not come from the CD changer connected using the CONTROL A1 cable.**

- ➔ Turn on this player.
- ➔ Press MEGA CONTROL to turn on the MEGA CONTROL button on the front panel (page 35).

**The numbers or letters of 5 characters are displayed on the screen.**

- ➔ Self diagnosis function was activated. See the table in page 49 and treat the player appropriately.



## Self-diagnosis Function

The self-diagnosis function works to prevent the player from malfunctioning, a five-digit service number (combination of a letter and figures) flashes on the screen. In this case, check the following table.



| First three digits     | Cause and/or Corrective Action  |
|------------------------|---|
| C13                    | <ul style="list-style-type: none"> <li>The disc is dirty.</li> <li>➔ Clean the disc with a cleaning cloth. (page 46)</li> </ul>   |
| C31                    | <ul style="list-style-type: none"> <li>The disc is not inserted correctly.</li> <li>➔ Open the disc tray and insert the disc correctly.</li> </ul>  |
| Exx (xx is any number) | <ul style="list-style-type: none"> <li>To prevent the player from operating malfunctioning, the self-diagnosis function has worked.</li> <li>➔ When you contact your Sony dealer or local authorized Sony service facility, inform the service number with five digits. (example: E:61:10)</li> </ul> |

## Specifications

### CD/DVD player

|                      |                     |
|----------------------|---------------------|
| Laser                | Semiconductor laser |
| Signal format system | NTSC                |

### Audio characteristics

|                       |   |
|-----------------------|---|
| Frequency response    | DVD (PCM 96 kHz): 2 Hz to 44 kHz (±0.5 dB)*<br>DVD (PCM 48 kHz): 2 Hz to 22 kHz (±0.5 dB)<br>CD: 2 Hz to 20 kHz (±0.5 dB) |
| Signal-to-noise ratio | More than 115 dB (LINE OUT (AUDIO 1, 2) connectors only)  |
| Harmonic distortion   | Less than 0.0028%   |
| Dynamic range         | More than 100 dB (DVD)<br>More than 97 dB (CD)  |
| Wow and flutter       | Less than detected value (±0.001% W PEAK)   |

### Outputs and inputs

|   | Jack type                | Output/Input level                      | Load impedance                               |
|---|--------------------------|---|--|
| LINE OUT (AUDIO 1, 2)                   | Phono jacks              | 2 Vrms (at 50 kilohms)                  | Over 10 kilohms                              |
| DIGITAL OUT (OPTICAL)                   | Optical output connector | -18 dBm                                 | Wave length: 660 nm                          |
| DIGITAL OUT (COAXIAL)                   | Phono jack               | 0.5 Vp-p                                | 75 ohms terminated                           |
| LINE OUT (VIDEO 1, 2)                   | Phono jacks              | 1.0 Vp-p                                | 75 ohms, sync negative                       |
| S VIDEO OUT (1, 2)                      | 4-pin mini DIN           | Y: 1.0 Vp-p<br>C: 0.286 Vp-p            | 75 ohms, sync negative<br>75 ohms terminated |
| COMPONENT VIDEO OUT (Y, Cb/B-Y, Cr/R-Y) | Phono jacks              | Y: 1.0 Vp-p<br>Cb/B-Y, Cr/R-Y: 0.7 Vp-p | 75 ohms, sync negative<br>75 ohms            |
| PHONES                                  | Phone jack               | 12 mW                                   | 32 ohms                                      |
| S-LINK                                  | Mini jack                |   |  |
| 5.1CH OUTPUT                            | Phono jacks              | 1.6 Vrms (at 50 kilohms)                | Over 10 kilohms                              |
| MEGA CONTROL                            | Mini jack                |   |  |
| AUDIO IN                                | Phono jack               | 2 Vrms                                  | 47 kilohms                                   |

### General

|                       |  |
|-----------------------|--|
| Power requirements    | 120 V AC, 60 Hz  |
| Power consumption     | 22 W   |
| Dimensions (approx.)  | 430 × 120 × 425 mm (17 × 4 3/4 × 16 3/4 in.) (w/h/d)<br>incl. projecting parts |
| Mass (approx.)        | 6.1 kg (13 lb 7 oz)  |
| Operating temperature | 41 °F to 95 °F (5 °C to 35 °C)   |
| Operating humidity    | 5% to 90%  |

### Supplied accessories

See page 6.

\* The signals from LINE OUT (AUDIO 1, 2) connectors are measured. When you play the PCM sound tracks with 96 kHz sampling frequency, the output signals from the DIGITAL OUT (OPTICAL, COAXIAL) and 5.1CH OUTPUT connectors are converted to 48 kHz (sampling frequency)/16 bits (quantization bits).

Design and specifications are subject to change without notice.

## Glossary

### Bit rate (page 18)

Value indicating the amount of video data compressed in a DVD per second. The unit is Mbps (Mega bit per second). 1 Mbps indicates that the data per second is 1,000,000 bits. The higher the bit rate is, the larger the amount of data. However, this does not always mean that you can get higher quality pictures.

### Chapter (page 5)

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

### Digital Cinema Sound (DCS) (page 44)

The general name of technology that Sony developed to enjoy the surround sound in a home. To enjoy the surround sound of the movie theater in the comfort of your own home, it simulates the sound not in a concert hall as usual but in a movie editing studio. This player adopts VES (Virtual Enhanced Surround) system from various DCS programs. The VES system can create the sound image of virtual rear speakers from the sound of the front speakers (L, R) without using actual rear speakers.

**Dolby Digital (AC-3) (page 40)**

Digital audio compression technology that the Dolby Laboratories Corporation developed. This technology conforms to 5.1-channel surround. The rear channel is stereo and there is discrete subwoofer channel in this format. The good channel separation is realized because the all channel data is recorded discrete and processed in digital.

**Dolby Pro Logic (page 44)**

Audio signal processing technology that Dolby Laboratories Corporation developed for surround sound. When the input signal has the surround component, the Pro Logic process outputs the front, center and rear signals. The rear channel is monaural.

**DVD (page 4)**

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.

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 the DVD.

**Multi-angle function (page 29)**

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

**Multilingual function (page 28)**

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

**Parental Control (page 30)**

A function of the DVD to limit playback 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, violent scenes are skipped or replaced with other scenes and so on.

**Playback Control (PBC) (page 17)**

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 (page 5)**

The longest sections of a picture or a music piece on a DVD; a movie, etc., for a picture piece on 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.

**Track (page 5)**

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.

**VES (Virtual Enhanced Surround) (page 44)**

See DCS (Digital Cinema Sound).

**VIDEO CD (page 4)**

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.

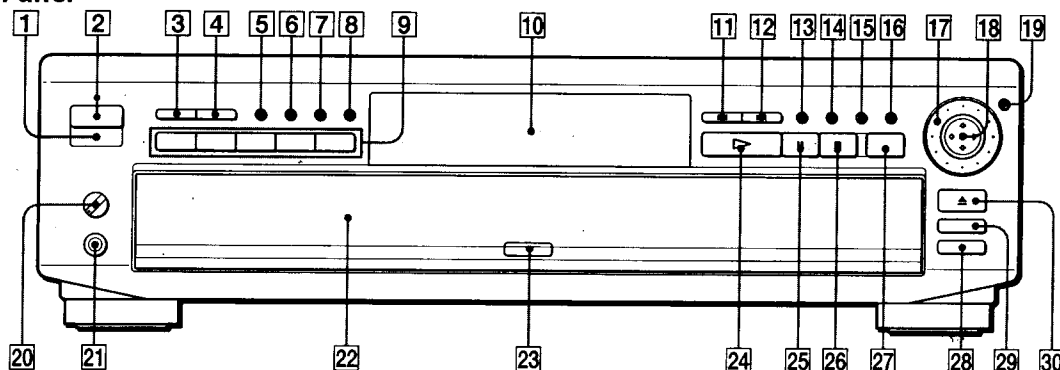
- Version 1.1: You can play only moving pictures and sounds.
- Version 2.0: You can play high-resolution still pictures and enjoy PBC functions.

This player conforms to both versions.

## Index to Parts and Controls

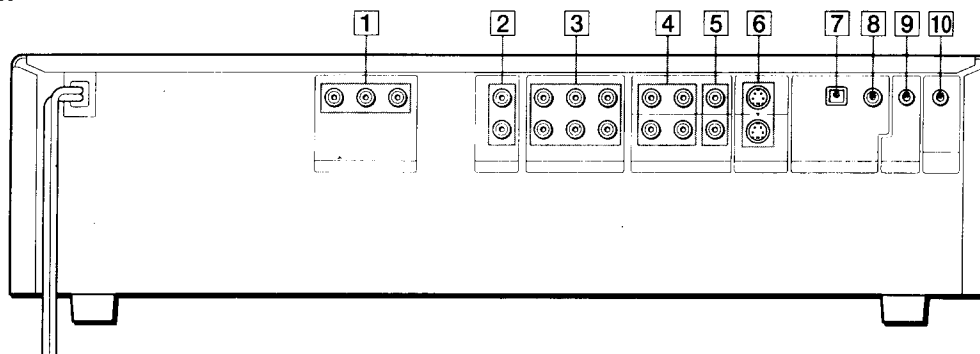
Refer to the pages indicated in parentheses for details.

### Front Panel



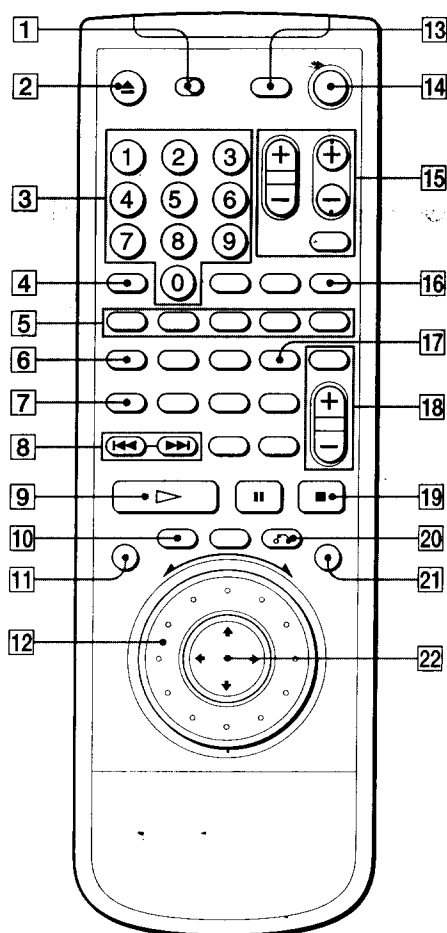
- 1** (remote sensor) (6)  
Accepts the remote control signals.
- 2** I/⏻ (POWER) switch and indicator (10, 14)  
Turns on and off the power of the player.
- 3** DISPLAY button (18, 45)  
Displays the current playing status on the TV screen.
- 4** TIME/TEXT button (18, 20)  
Displays the playing time of the disc, etc., on the front panel display.
- 5** SHUFFLE button (24)  
Press to execute the shuffle play.
- 6** PROGRAM button (25)  
Press to execute the program play.
- 7** REPEAT button (22)  
Press to execute the repeat play.
- 8** CLEAR button (11, 15, 22, 23, 24)  
Press to return to the continuous play etc.
- 9** DISC 1 – 5 buttons (11, 15, 25)  
Press to select a disc.
- 10** Front Panel Display (20)  
Indicates the playing time, etc.
- 11** ⏮ PREV button (11, 15)  
Press to go back to the preceding chapter or track.
- 12** ⏭ NEXT button (11, 15)  
Press to go to the next chapter or track.
- 13** TITLE button (13)  
Displays the title menu on the TV screen.
- 14** DVD MENU button (13)  
Displays the DVD menu on the TV screen.
- 15** ⏪ RETURN button (17)  
Press to return to the preceding selection screen, etc.
- 16** MEMO INPUT button/indicator (32)  
Press when labeling a disc.
- 17** Click shuttle (12, 16)  
Changes the playback speed.
- 18** ⏪/⏩/⏮/⏭ / ENTER button  
Selects and executes the items or settings.
- 19** JOG button / indicator (12, 16)  
Press to play a disc frame by frame.
- 20** PHONE LEVEL control (10, 14)  
Adjusts the headphone volume.
- 21** PHONES connector (10, 14)  
Connect the headphones to this connector.
- 22** Disc tray (10, 14)  
Place up to 5 discs on the tray.
- 23** DOLBY DIGITAL indicator (10, 45)  
Indicates Dolby Digital (AC-3) sound tracks.
- 24** ▷ PLAY button (10, 14)  
Plays a disc.
- 25** ⏸ PAUSE button (11, 15)  
Pauses playing a disc.
- 26** ■ STOP button (11, 15, 27)  
Stops playing a disc.
- 27** MEGA CONTROL button/indicator (35)  
Press to control the connected CD changer.
- 28** EX-CHANGE button (22)  
Press to change discs during playback.
- 29** DISC SKIP button (10, 14, 22)  
Press to turn the disc tray to place other discs.
- 30** ⏴ OPEN/CLOSE button (10, 14)  
Opens or closes the disc tray.

## Rear Panel

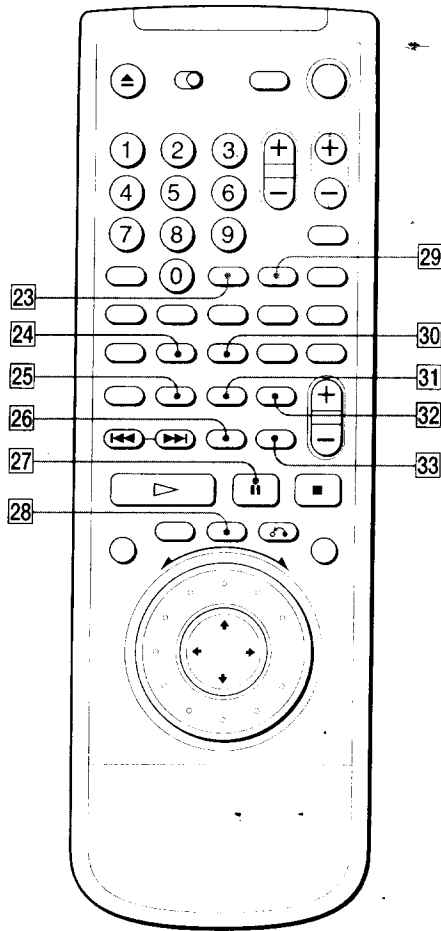


- 1 COMPONENT VIDEO OUT connectors (7)**  
Connects to the monitor or projector with component video input connectors (Y, CB/B-Y, CR/R-Y) that conform to output signals from the player.
- 2 AUDIO IN connectors (35)**  
Connects to the audio output on a Sony CD changer (200 discs).
- 3 5.1CH OUTPUT connectors (41)**  
Connects to the amplifier with 5.1 channel input connectors.
- 4 LINE OUT (AUDIO 1, 2) connectors (7)**  
Connects to the audio input connector on the TV or amplifier.
- 5 LINE OUT (VIDEO 1, 2) connectors (7)**  
Connects to the video input connector on the TV or monitor.
- 6 S VIDEO OUT (1, 2) connectors (7)**  
Connects to the S video input connector on the TV or VCR.
- 7 DIGITAL OUT (OPTICAL) connector (8)**  
Connects to an audio component using the optical digital connecting cord.
- 8 DIGITAL OUT (COAXIAL) connector (8)**  
Connects to an audio component using the coaxial digital connecting cord.
- 9 S-LINK/CONTROL S IN connector (8)**  
Connects to the S-link connector on an external component.
- 10 MEGA CONTROL connector (35)**  
Connects to the control connector on a Sony CD changer (5/50/200 discs).

## Remote



- 1 TV/DVD switch (33)**  
Selects to control the player or the TV with the remote.
- 2 OPEN/CLOSE button (11, 15)**  
Opens or closes the disc tray.
- 3 Number buttons (12, 16)**  
Selects the items or settings.
- 4 SEARCH MODE button (12, 16)**  
Press to select the unit for search (track, index, etc.)
- 5 DISC 1 - 5 buttons (11, 15, 25)**  
Press to select a disc.
- 6 SHUFFLE button (26)**  
Press to execute the shuffle play.
- 7 AUDIO CHANGE button (28)**  
Changes the sound while playing a DVD or VIDEO CD.
- 8 PREVIOUS/NEXT buttons (11, 15)**  
Press to go to the next chapter or track or to go back to the preceding chapter or track.
- 9 PLAY button (10, 14)**  
Plays a disc.
- 10 TITLE button (13)**  
Displays the title menu on the TV screen.
- 11 SET UP button (36)**  
Displays the setup display on the TV screen to set or adjust the items.
- 12 Click shuttle (12, 16)**  
Changes the playback speed.
- 13 DISPLAY button (18, 45)**  
Displays the current playing status on the TV screen.
- 14 I/O (POWER) button (14, 33)**  
Turns on and off the power of the player and TV.
- 15 TV operation buttons (33)**  
Controls TVs.
- 16 MEGA CONTROL button (35)**  
Press to control the connected CD changer.
- 17 A ↔ B button (22)**  
Press to execute the A ↔ B repeat play.
- 18 Receiver operation buttons (34)**  
Controls Sony AV receivers.
- 19 STOP button (11, 15, 27)**  
Stops playing a disc.
- 20 RETURN button (17)**  
Press to return to the preceding selection screen, etc.
- 21 JOG button / indicator (12, 16)**  
Press to enter JOG mode.
- 22 Directional buttons / ENTER button**  
Selects and executes the items or settings.

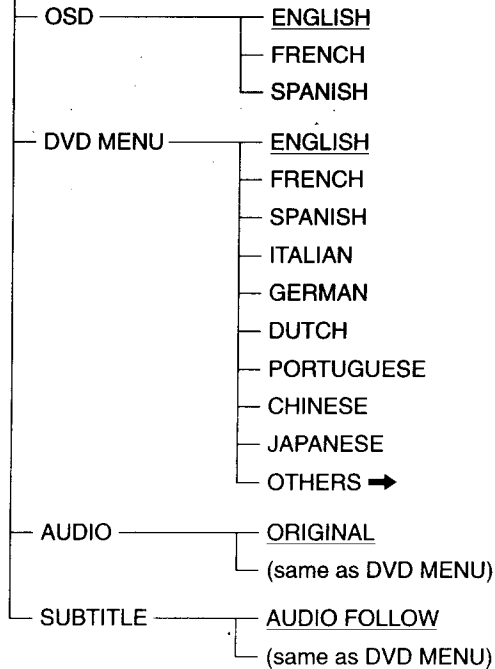


- 23 ENTER button**  
Executes the items or settings.
- 24 PROGRAM button (25)**  
Press to execute the program play.
- 25 ANGLE CHANGE button (29)**  
Changes the angles when playing a DVD.
- 26 TIME/TEXT button (18, 20)**  
Displays the playing time of the disc, etc., on the front panel display.
- 27 PAUSE button (11, 15)**  
Pauses playing a disc.
- 28 DVD MENU button (13)**  
Displays the DVD menu on the TV screen.
- 29 CLEAR button (22, 23, 24)**  
Press to return to the continuous play etc.
- 30 REPEAT button (22)**  
Press to execute the repeat play.
- 31 SUBTITLE CHANGE button (28)**  
Changes the subtitles when playing a DVD.
- 32 SUBTITLE ON/OFF button (28)**  
Turns the subtitles on and off when playing a DVD.
- 33 MEMO INPUT button (32)**  
Press when labeling a disc.

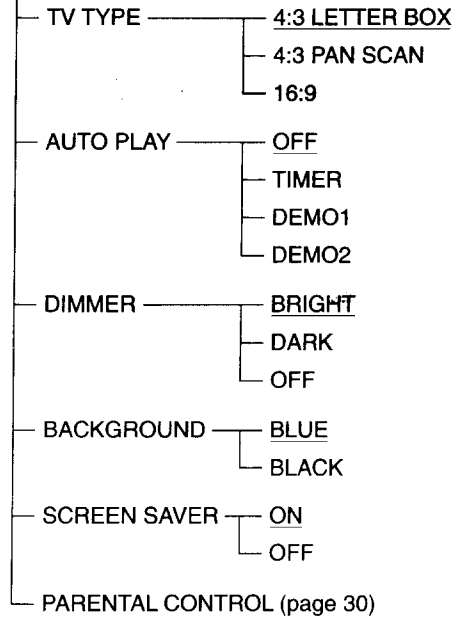
## Setup Display Item List

Default settings are underlined.

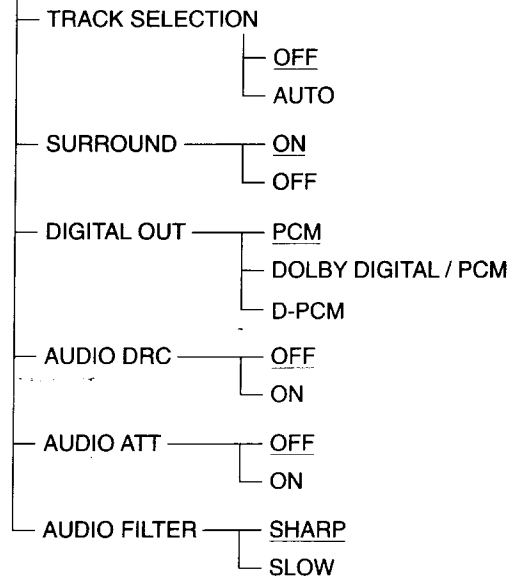
### **LANGUAGE SETUP** (page 37)



### **1 INITIAL SETUP 1** (page 38)



### **2 INITIAL SETUP 2** (page 39)





## Language Code List

For details, see page 37.

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

| Code | Language        | Code | Language         | Code | Language       | Code | Language      |
|------|-----------------|------|------------------|------|----------------|------|---------------|
| 1027 | Afar            | 1186 | Scots Gaelic     | 1350 | Malayalam      | 1513 | Siswati       |
| 1028 | Abkhazian       | 1194 | Galician         | 1352 | Mongolian      | 1514 | Sesotho       |
| 1032 | Afrikaans       | 1196 | Guarani          | 1353 | Moldavian      | 1515 | Sundanese     |
| 1039 | Amharic         | 1203 | Gujarati         | 1356 | Marathi        | 1516 | Swedish       |
| 1044 | Arabic          | 1209 | Hausa            | 1357 | Malay          | 1517 | Swahili       |
| 1045 | Assamese        | 1217 | Hindi            | 1358 | Maltese        | 1521 | Tamil         |
| 1051 | Aymara          | 1226 | Croatian         | 1363 | Burmese        | 1525 | Telugu        |
| 1052 | Azerbaijani     | 1229 | Hungarian        | 1365 | Nauru          | 1527 | Tajik         |
| 1053 | Bashkir         | 1233 | Armenian         | 1369 | Nepali         | 1528 | Thai          |
| 1057 | Byelorussian    | 1235 | Interlingua      | 1376 | Dutch          | 1529 | Tigrinya      |
| 1059 | Bulgarian       | 1239 | Interlingue      | 1379 | Norwegian      | 1531 | Turkmen       |
| 1060 | Bihari          | 1245 | Inupiak          | 1393 | Occitan        | 1532 | Tagalog       |
| 1061 | Bislama         | 1248 | Indonesian       | 1403 | (Afan) Oromo   | 1534 | Setswana      |
| 1066 | Bengali; Bangla | 1253 | Icelandic        | 1408 | Oriya          | 1535 | Tonga         |
| 1067 | Tibetan         | 1254 | Italian          | 1417 | Punjabi        | 1538 | Turkish       |
| 1070 | Breton          | 1257 | Hebrew           | 1428 | Polish         | 1539 | Tsonga        |
| 1079 | Catalan         | 1261 | Japanese         | 1435 | Pashto; Pushto | 1540 | Tatar         |
| 1093 | Corsican        | 1269 | Yiddish          | 1436 | Portuguese     | 1543 | Twi           |
| 1097 | Czech           | 1283 | Javanese         | 1463 | Quechua        | 1557 | Ukrainian     |
| 1103 | Welsh           | 1287 | Georgian         | 1481 | Rhaeto-Romance | 1564 | Urdu          |
| 1105 | Danish          | 1297 | Kazakh           | 1482 | Kirundi        | 1572 | Uzbek         |
| 1109 | German          | 1298 | Greenlandic      | 1483 | Romanian       | 1581 | Vietnamese    |
| 1130 | Bhutani         | 1299 | Cambodian        | 1489 | Russian        | 1587 | Volapük       |
| 1142 | Greek           | 1300 | Kannada          | 1491 | Kinyarwanda    | 1613 | Wolof         |
| 1144 | English         | 1301 | Korean           | 1495 | Sanskrit       | 1632 | Xhosa         |
| 1145 | Esperanto       | 1305 | Kashmiri         | 1498 | Sindhi         | 1665 | Yoruba        |
| 1149 | Spanish         | 1307 | Kurdish          | 1501 | Sangho         | 1684 | Chinese       |
| 1150 | Estonian        | 1311 | Kirghiz          | 1502 | Serbo-Croatian | 1697 | Zulu          |
| 1151 | Basque          | 1313 | Latin            | 1503 | Singhalese     | 1703 | Not specified |
| 1157 | Persian         | 1326 | Lingala          | 1505 | Slovak         |      |               |
| 1165 | Finnish         | 1327 | Laothian         | 1506 | Slovenian      |      |               |
| 1166 | Fiji            | 1332 | Lithuanian       | 1507 | Samoan         |      |               |
| 1171 | Faroese         | 1334 | Latvian; Lettish | 1508 | Shona          |      |               |
| 1174 | French          | 1345 | Malagasy         | 1509 | Somali         |      |               |
| 1181 | Frisian         | 1347 | Maori            | 1511 | Albanian       |      |               |
| 1183 | Irish           | 1349 | Macedonian       | 1512 | Serbian        |      |               |

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