SONY

CD/DVD Player

Operating Instructions

DVD VIDEO

COMPACT
disc
DIGITAL VIDEO

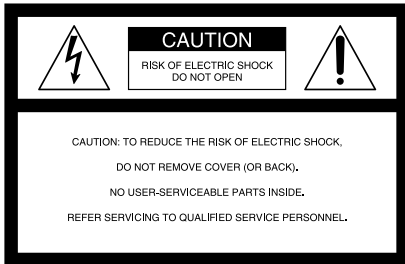energy

DVP-C675D
DVP-C670D

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.

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

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

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,

DO NOT REMOVE COVER (OR BACK).

NO USER-SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

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.

CAUTION

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

For customers in the U.S.A

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-C675D/DVP-C670D
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.

For the model supplied with the AC plug adaptor

If the AC plug of your unit does not fit into the wall outlet, attach the supplied AC plug adaptor.
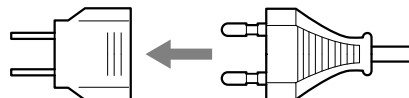
Welcome!

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

TABLE OF CONTENTS

About This Manual

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.
DVD	Indicates that the function is for DVD VIDEOs.
VIDEO CD	Indicates that the function is for VIDEO CDs.
CD	Indicates that the function is for Audio CDs.

This Player Can Play the Following Discs

	DVD VIDEOs		VIDEO CDs		Audio CDs	
Disc logo	**DVD VIDEO**		COMPACT disc DIGITAL VIDEO		COMPACT disc DIGITAL AUDIO	
Contents	Audio + Video		Audio + Video		Audio	
Disc size	12 cm	8 cm	12 cm	8 cm	12 cm	8 cm (CD single)
Play time	About 4 h (for single-sided DVD)/ about 8 h (for double-sided DVD)	About 80 min. (for single-sided DVD)/ about 160 min. (for double-sided DVD)	74 min.	20 min.	74 min.	20 min.

The "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 "Playback prohibited by area limitations." 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 area restrictions.

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 section of a picture or music feature on a DVD, the movie, etc. in video software, or the name of an album in audio software.

- **Chapter**

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

DVD structure

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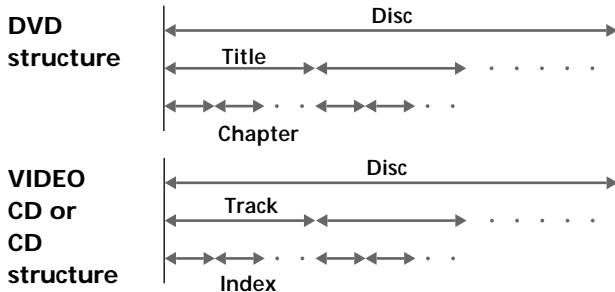
- **Index (CD) / Video Index (VIDEO CD)**

  A number that divides a track into 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 (playback control) 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-Rs, CD-ROMs including PHOTO CDs, data sections in CD-EXTRAs, DVD-ROMs, DVD-audio, HD (high density) layer of Super Audio CD etc., cannot be played.

When playing DTS*-encoded CDs, excessive noise will be heard from the analog stereo outputs. To avoid possible damage to the audio system, the consumer should take proper precautions when the analog stereo outputs of the DVD player are connected to an amplification system. To enjoy DTS Digital Surround™ playback, an external 5.1-channel DTS Digital Surround™ decoder system must be connected to the digital output of the DVD player.

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.

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

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.

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.
• When you move the player, take out any discs. If you don't, the disc may be damaged.

On adjusting volume
• Do not turn up the volume while listening to a section with very low level inputs or no audio signals. If you do, the speakers may be damaged when a peak level section 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 benzine.

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 on-screen display image on your television screen indefinitely. If you leave the still video image or on-screen display image displayed on your TV for an extended period of time you risk permanent damage to your television screen. Projection televisions are especially susceptible to this.

Notes About the 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.
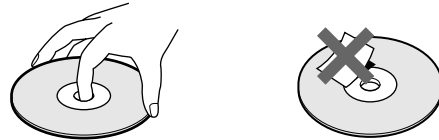
• Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight as the temperature may rise considerably inside the car.
• After playing, store the disc in its case.

On cleaning
• Before playing, clean the disc with a cleaning cloth. Wipe the disc from the center out.
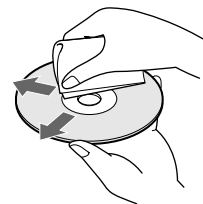
• Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.

On novelty discs
• Do not use irregularly shaped CDs such as heart- or star-shaped CDs as they may cause the player to malfunction.

Getting Started

This section describes how to hook up the CD/DVD player to a TV (with audio/video input jacks) and/or an AV receiver (amplifier). You cannot connect this player to a TV which does not have a video input connector. Be sure to turn off the power of each component before making the connections.

Unpacking

Check that you have the following items:
• Audio/video/S-link connecting cord (1)
• S video cord (1)
• Remote commander (remote) RMT-D121A (1)
• Size AA (R6) batteries (2)
• Plug adaptor (1) (DVP-C675D only)

Inserting batteries into the remote

You can control the player using the supplied remote. Insert two Size AA (R6) batteries by matching the + and – ends on the batteries to the markings inside the compartment. When using the remote, point it at the remote sensor ▉ on the player.
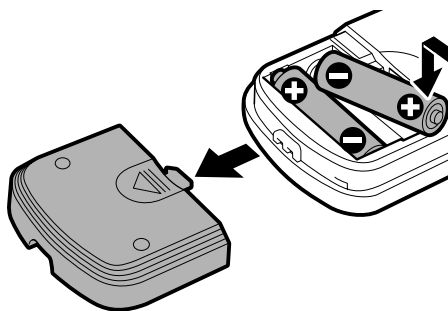
ʖʼ **You can control TVs and AV receivers (amplifiers) using the supplied remote**
See page 70.

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 do not use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

Transporting the player

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

1 Remove all the discs from the disc tray.

2 Press ⏏ to close the disc tray.
Make sure that "NO DISC" appears on the front panel display.

3 Wait for 10 seconds, then press I/⏻ on the remote, followed by ① on the player.
This will safely turn off the player.

TV Hookups

This connection is for listening to the sound through TV speakers (L: left, R: right). Refer to the instructions supplied with the component to be connected.

ᆟ You can enjoy surround sound using your TV's built-in speakers
You can use 3D sound imaging to create virtual rear speakers from the sound of built-in TV speakers without using actual rear speakers (VES TV: Virtual Enhanced Surround TV). For details, see page 39.

Required cords

Audio/video/S-link connecting cord (supplied) (1)
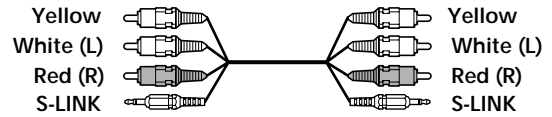
Yellow
White (L)
Red (R)
S-LINK

Yellow
White (L)
Red (R)
S-LINK

S video cord (supplied) (1)

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.
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.
If your TV has an S video input connector, connect the component via the S VIDEO OUT connector using the supplied S video cord. You will get a better picture.
Refer to the instructions supplied with the TV to be connected.

CD/DVD player

To AUDIO OUT

To S-LINK

To VIDEO OUT

To S VIDEO OUT

To an AC outlet

To S VIDEO input

TV

To S-LINK
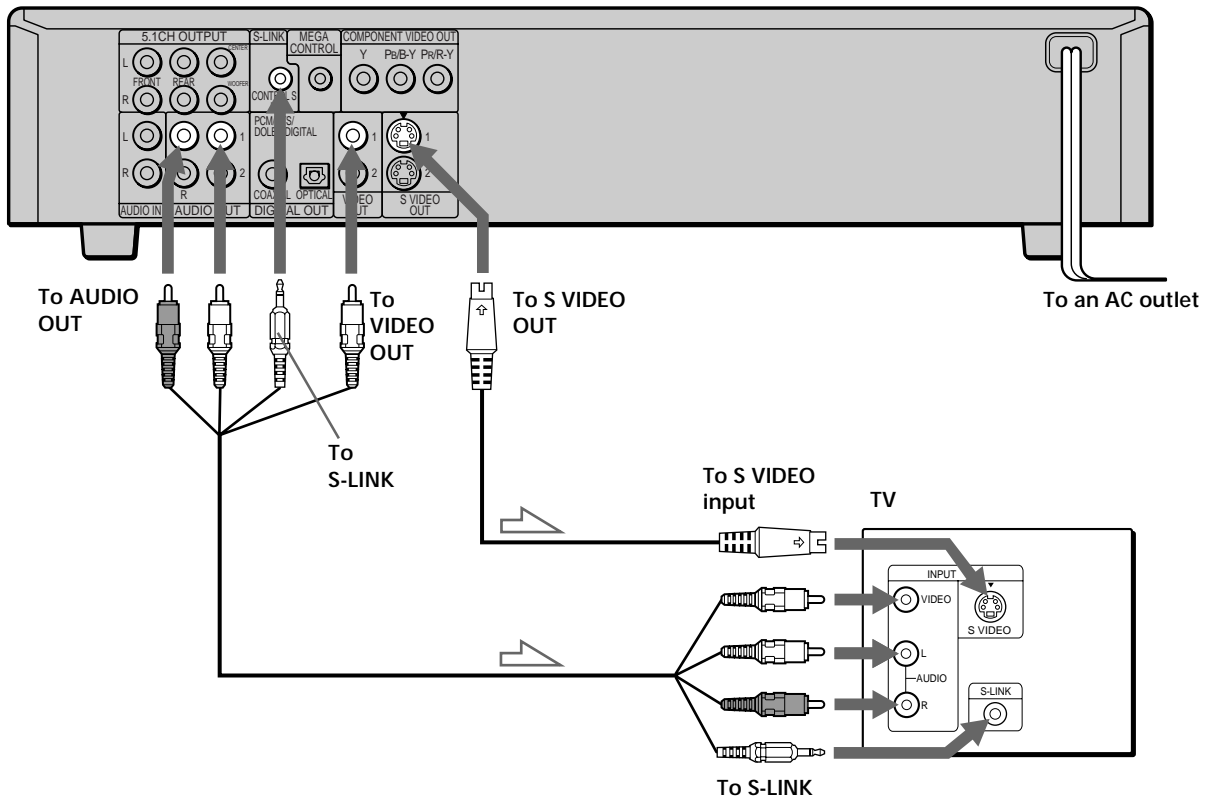
⟋ : Signal flow

If you connect the player to a monitor or projector having component video input connectors that conform to output signals from the COMPONENT VIDEO OUT (Y, PB/B-Y, PR/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.

CD/DVD player

Monitor or projector with component video input connectors

COMPONENT VIDEO OUT
Y   PB/B-Y PR/R-Y

COMPONENT VIDEO IN

PR

PB

Y
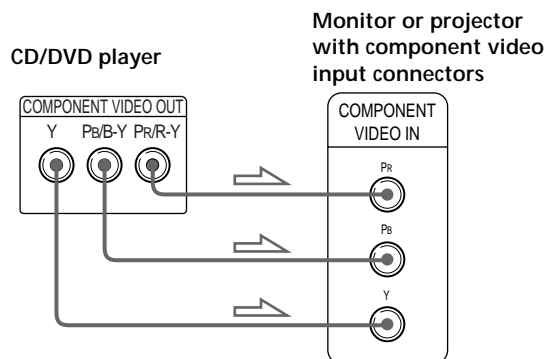
Notes
• Refer to the instructions supplied with the component to be connected.
• Do not connect this player to a video deck. If you do, noise may appear in the picture.

VCR   TV

CD/DVD player   Connect directly
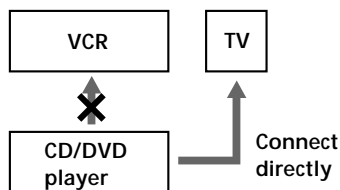
• Depending on the TV or receiver (amplifier), sound distortion may occur because the audio output level is high. In this case, set "AUDIO ATT" in "AUDIO SETUP" to "ON" in the setup display. For details, see page 65.

Setups for the player

Some setup adjustments are necessary for the player depending on the TV or other components to be connected.
Use the setup display to change the various settings.
For details on using the setup display, see page 56.

• **To connect the player to a normal TV**
In the setup display, set "TV TYPE" in "SCREEN SETUP" to "4:3 LETTER BOX" (default setting) or "4:3 PAN SCAN." For details, see page 60.
• **To connect the player to a TV having the WIDE MODE function**
In the setup display, set "TV TYPE" in "SCREEN SETUP" to "16:9/4:3 WIDE MODE." For details, see page 60.
• **To connect the player to a wide-screen TV**
In the setup display, set "TV TYPE" in "SCREEN SETUP" to "16:9/4:3 WIDE MODE." For details, see page 60.

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Receiver (Amplifier) Hookups

Connect your receiver (amplifier) as follows.
Refer as well to the instructions supplied with the
component to be connected.

💡 **You can enjoy surround sounds even if you only connect
front speakers**

You can use 3D sound imaging to create virtual rear speakers
from the sound of the front speakers (L, R) without using actual
rear speakers (VES: Virtual Enhanced Surround and VIRTUAL
SEMI MULTI DIMENSION). For details, see page 39.

Required cords

Audio connecting cord (not supplied) (1)
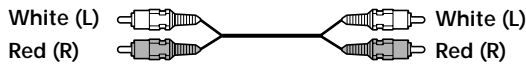
White (L) ▭⊏▥▥▭ ━━━ ▭▥▥⊐▭ White (L)
Red (R) ▭⊏▥▥▭ ━━━ ▭▥▥⊐▭ Red (R)

S video cord (supplied) (1)

▭⊏ ▥▥━━━━━━━▥▥ ⊐▭

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

If you have a digital component such as a receiver (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).

Optical digital connecting cord (not supplied) (1)

⊏▭━━━━━━━━━━━━▭⊐

Coaxial digital connecting cord (not supplied) (1)
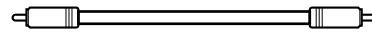
⊏▭▥▥━━━━━━━━▥▥▭⊐

> Do not connect the power cord to a switched AC outlet
> such as the AC outlet on a receiver (amplifier). Doing so
> may cause the Playback Memory, Bookmark, Disc Memo
> and menu settings to be cancelled when you turn off the
> receiver.

CD/DVD player

To AUDIO OUT (R, L)
To DIGITAL OUT (COAXIAL)
To DIGITAL OUT (OPTICAL) Take off the cap.
To S VIDEO OUT
To an AC outlet

To S VIDEO input — TV

To optical digital input
or
To coaxial digital input
Receiver (Amplifier) with a digital connector, MD deck, DAT deck, etc.

or

Receiver (Amplifier)

To audio input

◁ : Signal flow

10
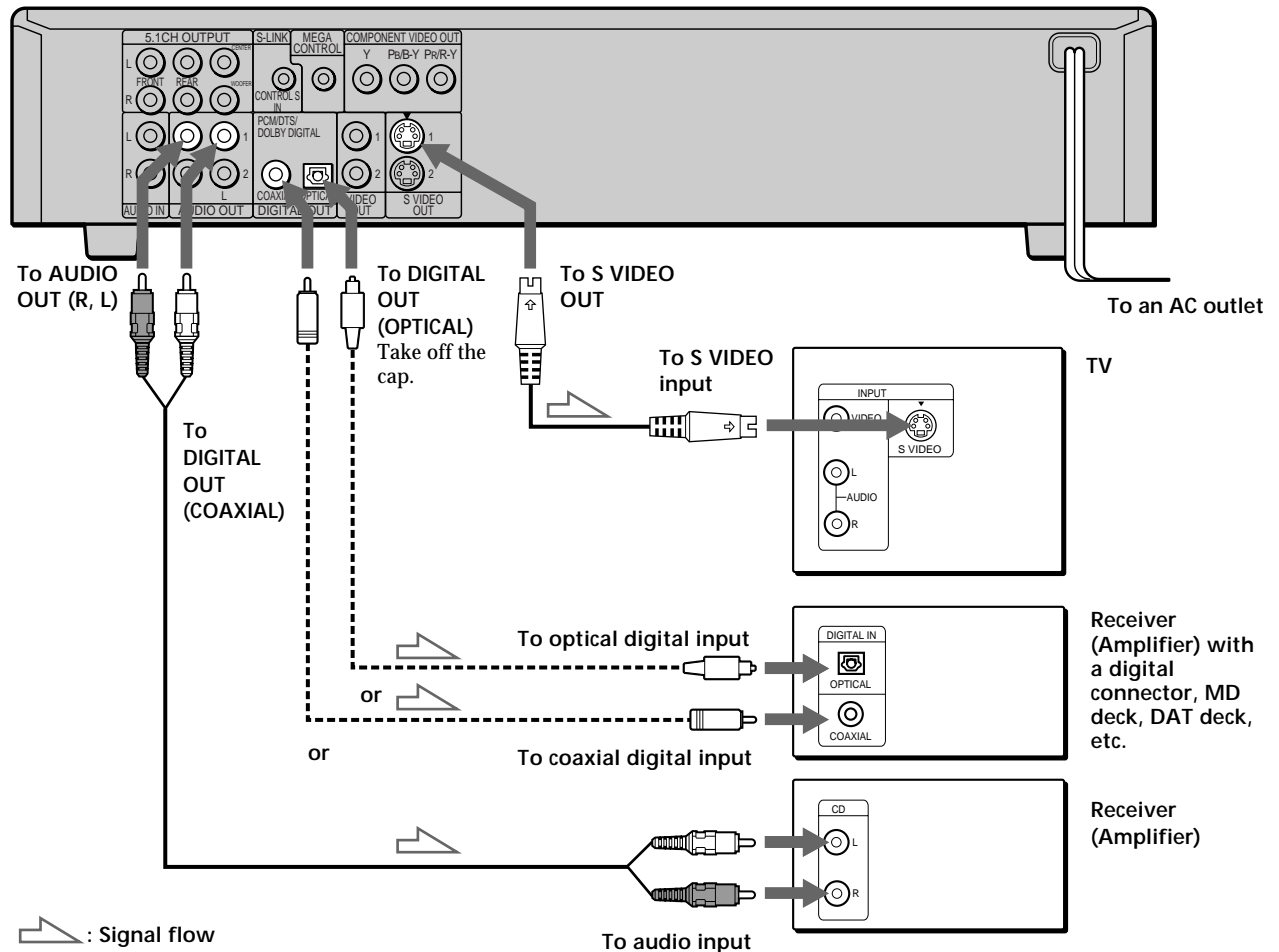
Note

You cannot enjoy a picture with an S video signal if your TV does not conform to the S video signal. When your TV does not have an S VIDEO input, connect the component via the VIDEO INPUT connector using the supplied audio/video connecting cord instead of the S video cord. For details, see page 8. Refer to the instructions supplied with your TV.

Setups for the player when using the digital connecting cords

Connect the component via the DIGITAL OUT OPTICAL or COAXIAL connector using an optical or coaxial digital connecting cord (not supplied). You do not need to use the audio connecting cord.

Some setup adjustments are necessary for the player depending on the components to be connected.

Use the setup display to change the various settings.

For details on using the setup display, see page 56.

If your receiver (amplifier) does not have a built-in Dolby* Digital decoder or DTS decoder

• **To listen to the sound through speakers connected to a receiver (amplifier) which has a digital connector, or to output the sound to a digital component such as a DAT or MD deck**

Set the "AUDIO SETUP" items in the setup display (page 65) as shown in the illustration below. These are the default settings.

```
AUDIO SETUP
  AUDIO ATT:                      OFF
  AUDIO DRC:                  STANDARD
  CENTER SPEAKER EQ:              FLAT
  DOWNMIX:            DOLBY SURROUND
  DIGITAL OUT:                     ON      ─ Set the
    DOLBY DIGITAL:             D-PCM          items as
    DTS:                       D-PCM          shown
    48kHz/96kHz PCM:       48kHz/16bit

To set, press ◀▲▼▶, then ENTER .
To quit, press DISPLAY .
```
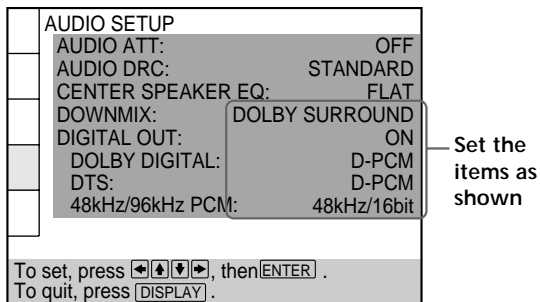
When you have made the connections using an optical or coaxial digital connecting cord, do not set "DOLBY DIGITAL" to "DOLBY DIGITAL," "DTS" to "DTS" and "48kHz/96kHz PCM" to "96kHz/24bit." If you do, a loud noise will suddenly come out from the speakers, affecting your ears or causing the speakers to be damaged.

Note

You cannot make direct digital audio recordings of discs recorded in multichannel surround format using an MD deck or DAT deck.

If you have an audio component with a built-in Dolby Digital decoder or DTS decoder

• **When you connect an audio component with a built-in Dolby Digital decoder Ⓐ**
  Set "DIGITAL OUT" in "AUDIO SETUP" to "ON" and then set "DOLBY DIGITAL" to "DOLBY DIGITAL" in the setup display (page 66).

• **When you connect an audio component with a built-in DTS decoder Ⓑ**
  Set "DIGITAL OUT" in "AUDIO SETUP" to "ON" and then set "DTS" to "DTS" in the setup display (page 67).

• **When you connect an audio component that is compatible with 96kHz/24bit Ⓒ**
  Set "DIGITAL OUT" in "AUDIO SETUP" to "ON" and then set "48kHz/96kHz PCM" to "96kHz/24bit" in the setup display (page 67).

```
AUDIO SETUP
  AUDIO ATT:                      OFF
  AUDIO DRC:                  STANDARD
  CENTER SPEAKER EQ:              FLAT
  DOWNMIX:            DOLBY SURROUND
  DIGITAL OUT:                     ON   ─Ⓐ
    DOLBY DIGITAL:     DOLBY DIGITAL
    DTS:                         DTS   ─Ⓑ
    48kHz/96kHz PCM:       96kHz/24bit ─Ⓒ

To set, press ◀▲▼▶, then ENTER .
To quit, press DISPLAY .
```
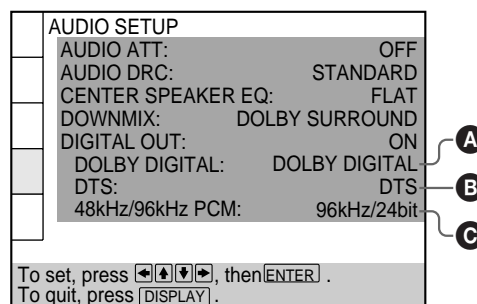
Notes

• **When you do not connect an audio component with a built-in Dolby Digital decoder, do not set "DOLBY DIGITAL" to "DOLBY DIGITAL."**
• **When you do not connect an audio component with a built-in DTS decoder, do not set "DTS" to "DTS."**
• **Do not set to "96kHz/24bit" if your receiver (amplifier) is not compatible with 96 kHz.**
• When you connect the component via the DIGITAL OUT OPTICAL or COAXIAL connector, the Virtual 3D Surround effect cannot be heard.

* Manufactured under license from Dolby Laboratories. "Dolby," "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works. ©1992-1997 Dolby Laboratories. All rights reserved.

5.1 Channel Surround Hookups

Some DVDs have a sound track with up to 5.1 channels recorded in Dolby Digital or DTS format. Using a receiver (amplifier) having 5.1 channel inputs and 6 speakers, you can enjoy a more realistic audio presence in the comfort of your own home.

"5.1 channel" stands for the 2 front speakers (Left and Right), 2 rear speakers (Left and Right), 1 center speaker, and a subwoofer.

Even if you have fewer than 6 speakers, the player appropriately distributes the output signal to the speakers.

This player also has a VIRTUAL 3D SURROUND mode. You can use 3D sound imaging to shift the sound of the rear speakers away from the actual speaker position (VIRTUAL REAR SHIFT) or to create 3 sets of virtual rear speakers from 1 set of actual rear speakers (VIRTUAL MULTI REAR, etc.). For details on the VIRTUAL 3D SURROUND mode, see page 39.

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.
- Place the subwoofer between the front (L, R) speakers if possible.

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

Required cords

Audio cords (not supplied) (2)
For the 5.1CH OUTPUT FRONT and REAR jacks

White (L)　　　　　　　　　　　White (L)
Red (R)　　　　　　　　　　　　Red (R)
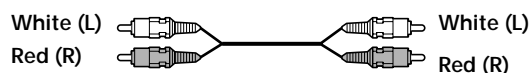
Monaural audio cords (not supplied) (2)
For 5.1CH OUTPUT CENTER and WOOFER jacks.

S video cord (supplied) (1)
For the S VIDEO OUT jack

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

Do not connect the power cord to a switched AC outlet such as the AC outlet on a receiver (amplifier). Doing so may cause the Playback Memory, Bookmark, Disc Memo and menu settings to be cancelled when you turn off the receiver.

Notes
- Do not connect the power cord to an AC outlet or press the POWER switch before completing all connections.
- Refer to the instructions supplied with the component to be connected.
- The cord connectors should be fully inserted into the jacks. A loose connection may cause hum and noise.
- If you want to connect the component via the DIGITAL OUT OPTICAL or COAXIAL connector using an optical or coaxial digital connecting cord (not supplied), see page 10.

Setups for the player

Some setup adjustments are necessary for the player depending on the components to be connected.
Use the setup display to change the various settings.
For details on using the setup display, see page 56.

- **To enjoy surround sounds by connecting the player to a receiver (amplifier) with 5.1 channel inputs**
Correctly adjust each speaker to your listening position (page 67).

13
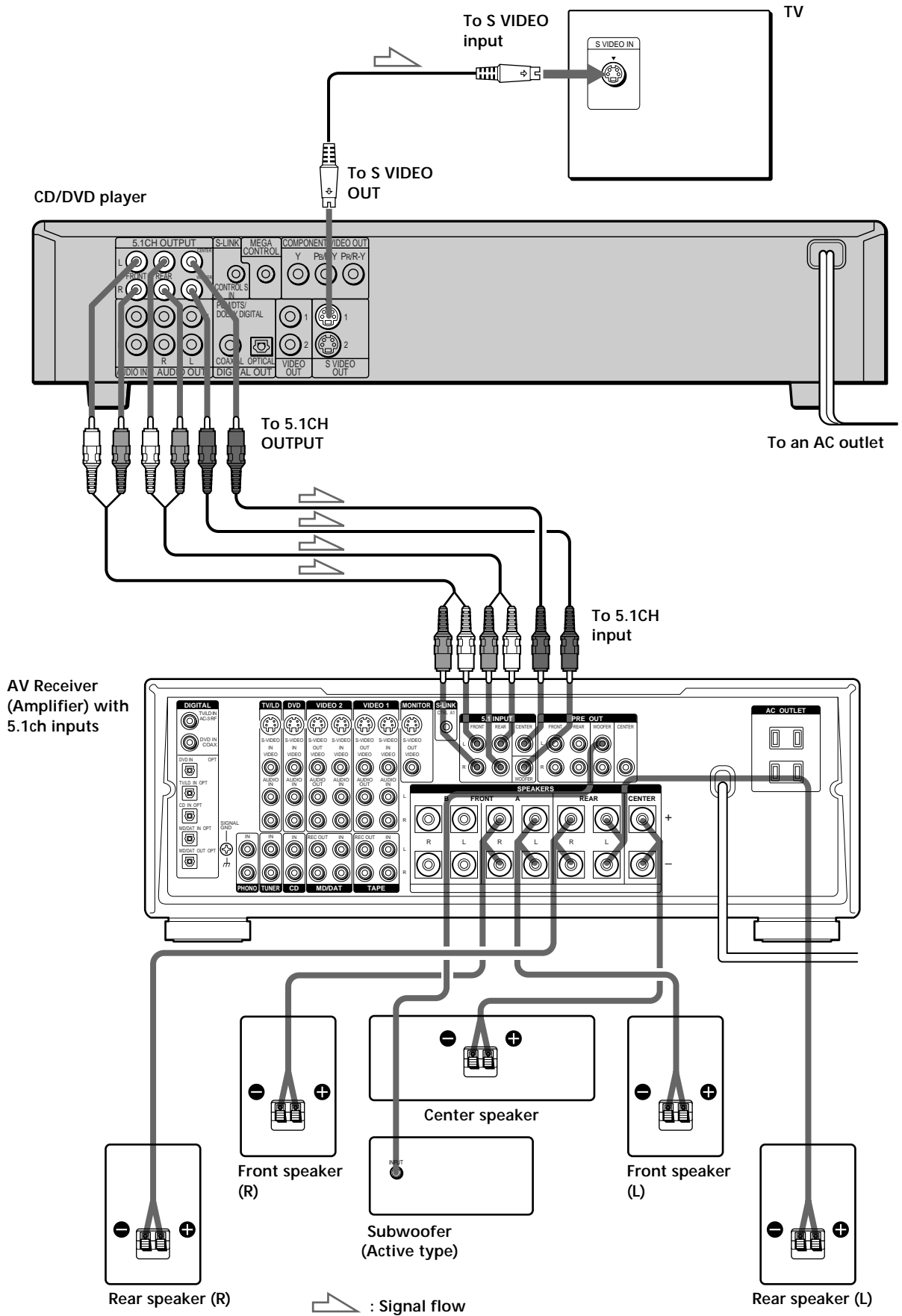
Selecting the Language for the On-Screen Display

You can select the language for the setup display, the Control Menu display or the messages displayed on the screen. The default setting is "ENGLISH."

DISPLAY

ENTER

←/↑/↓/→
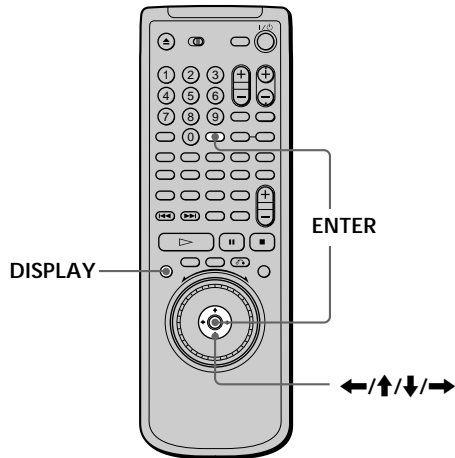
1 When the player is in stop mode, press DISPLAY and select "SETUP" using ↑/↓.
The on-screen menu items are different depending on whether there is a disc in the player or not.

```
1                               STOP
   ( 1 )                        DVD

              :   :

┌────┐
│    │
└────┘
Selected ─── SETUP
item      Select: ←↑↓→ → ENTER
```
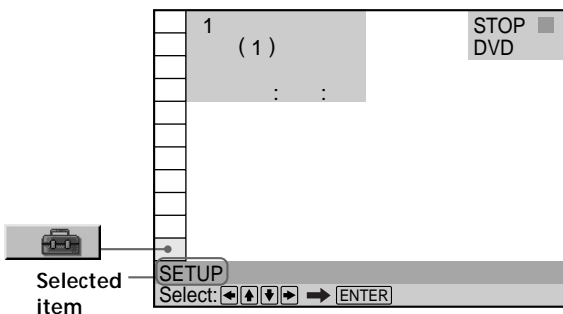
2 Press ENTER.
The setup display appears on the TV screen.

```
LANGUAGE SETUP
OSD:                    ENGLISH
DVD MENU:               ENGLISH
AUDIO:                  ORIGINAL
SUBTITLE:          AUDIO FOLLOW



To set, press ←↑↓→, then ENTER .
To quit, press DISPLAY.
```
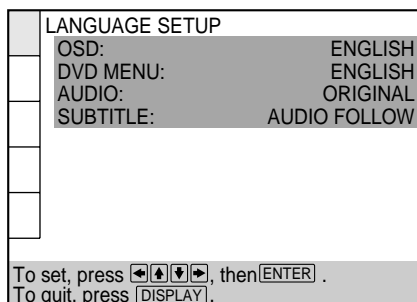
3 Select "LANGUAGE SETUP" using ↑/↓, and then press ENTER.

```
LANGUAGE SETUP
OSD:                    ENGLISH
DVD MENU:               ENGLISH
AUDIO:                  ORIGINAL
SUBTITLE:          AUDIO FOLLOW



To set, press ←↑↓→, then ENTER .
To quit, press DISPLAY.
```
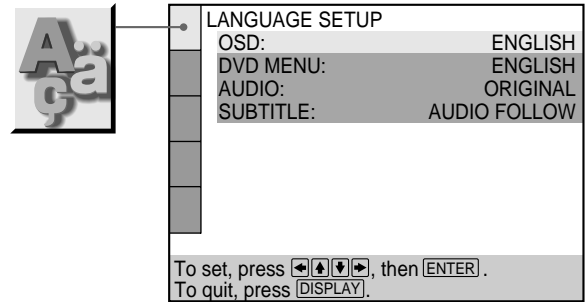
4 Select "OSD" using ↑/↓, then press → or ENTER.
The languages you can select are displayed.

```
LANGUAGE SETUP
OSD:                    ENGLISH
DVD MENU:               ENGLISH
AUDIO:                   FRENCH
SUBTITLE:               SPANISH
                     PORTUGUESE



To set, press ←↑↓→, then ENTER .
To quit, press DISPLAY.
```
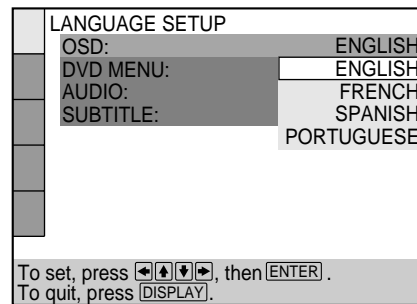
5 Select the desired language using ↑/↓, then press ENTER.

```
CHOIX DE LA LANGUE
ÉCRANS:                FRANÇAIS
MENU DVD :              ANGLAIS
AUDIO:                 ORIGINAL
SOUS-TITRE:          IDEM AUDIO



Pour régler, appuyez sur ←↑↓→, puis sur
ENTER.  Pour quitter, appuyez sur DISPLAY.
```

6 Press DISPLAY.
The setup display disappears.

7 Press DISPLAY repeatedly to turn off the on-screen menu.

To return to the previous screen
Press ⚡RETURN.

To quit while making a selection
Press DISPLAY.

Note
The languages you can select are the ones displayed in step 4.
For details, see page 59.

Operation Sound Effects (Sound Feedback)

The player beeps when the following operations are performed.
The default setting of the Sound Feedback function is set to off.

Operation	Operation sound
Power is turned on	One beep
Power is turned off	Two beeps
▷ is pressed	One beep
❚❚ is pressed	Two beeps
Playback is stopped	One long beep
Operation is not possible	Three beeps
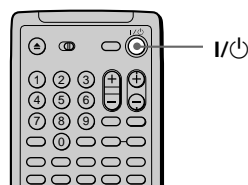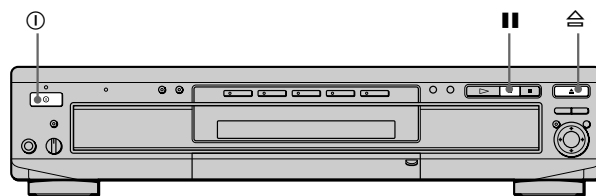
1 Press ① on the player, then press I/☉ on the remote.
The power indicator lights up in green.
When there is a disc in the player, press ⏏ and remove the disc. Then press ⏏ again to close the disc tray.

2 Press and hold ❚❚ on the player for more than two seconds.
You will hear one beep and the Sound Feedback function is turned on.

To turn off the Sound Feedback Function
When there is no disc in the player, press and hold ❚❚ on the player for more than two seconds. You will hear two beeps and the Sound Feedback function is turned off.

Playing Discs

This chapter describes how to play a DVD/CD/VIDEO CD.

Playing Discs DVD VIDEO CD CD

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

Power indicator ▷ ⏏

Adjust the headphone volume. DISC SKIP
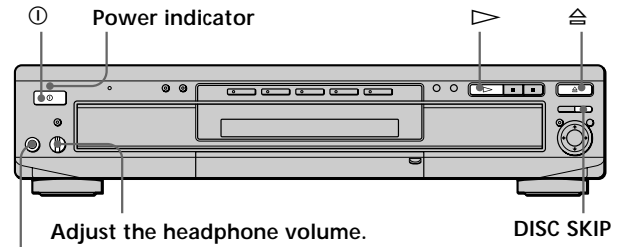
Connect headphones*.

I/⏻
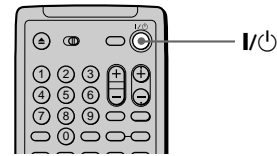
* For details on using the VIRTUAL SURROUND HEADPHONES function, see "Digital Cinema Sound Settings" on page 39.

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

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

2 Press ① to turn on the player.
The player enters standby mode and the power indicator lights up in red.

3 Press ⏏ on the player, and place a disc on the disc tray.
To place other discs on the tray, press DISC SKIP on the player and place the discs in the order you want to play them.
Each time you press DISC SKIP, the disc tray turns so you can place the discs in the empty compartments.
The player plays from the last disc placed on the tray.
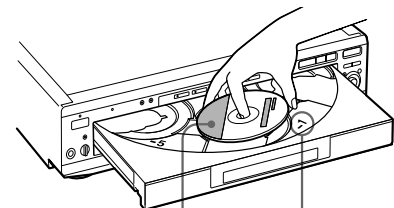
With the playback side facing down Disc tray number

4 Press ▷.
The disc tray closes and the player starts playback of all discs (continuous play). Adjust the volume on the TV or the receiver (amplifier).

After following Step 4

■When playing a DVD
 A DVD menu or title menu may appear on the TV
 screen (see page 21).
■When playing a VIDEO CD
 Depending on the VIDEO CD, a menu may appear on
 the TV screen. You can play the disc interactively by
 following the instructions on the menu. (PBC Playback,
 see page 21.)

To turn on the player

Press ① on the player. The player enters standby mode
and the power indicator lights up in red.
Then press I/⏻ on the remote. The player turns on and
the power indicator lights up in green. In standby mode,
the player also turns on by pressing ⏏ on the player or by
pressing ▷.

To turn off the player

Press I/⏻ on the remote. The player enters standby mode
and the power indicator lights up in red.
To disconnect the power of the player, press ① on the
player.

Notes on playing DTS sound tracks on a CD
• Do not play DTS sound tracks without first connecting the
 player to an audio component having a built-in DTS decoder.
 The player outputs the DTS signal via the DIGITAL OUT
 OPTICAL and COAXIAL connectors even if "DTS" in "AUDIO
 SETUP" is set to "D-PCM" in the setup display, and may affect
 your ears or cause your speakers to be damaged.
• Set the sound to "STEREO" when you play DTS sound tracks
 on a CD. (See "Changing the Sound" on page 35.) If you set
 the sound to "1/L" or "2/R", no sound will come from the
 DIGITAL OUT OPTICAL and COAXIAL connectors.
• If you play a CD with a DTS sound track, a loud noise may
 come out from the AUDIO OUT connectors, affecting your ears
 or causing the speakers to be damaged.

Notes
• If you leave the player or the remote in pause or stop mode for
 15 minutes, the screen saver image appears automatically. It
 will also appear if you play back a CD for more than 15
 minutes. To make the screen saver image go away, press ▷.
 (If you want to set the screen saver function to off, see page 60.)
• While playing a disc, do not turn off the player by pressing ①.
 Doing so may cancel the settings of the menu. When you turn
 off the player, press ■ first to stop playback and then press I/⏻
 on the remote. After the power indicator lights up in red and
 the player enters standby mode, press ① on the player.

Additional operations

DISC SELECT 1 – 5   I◀◀ /▶▶I   ⏏

▷   II   ■

DISC SKIP

DISC 1 – 5

I◀◀ /▶▶I

▷   ■

II
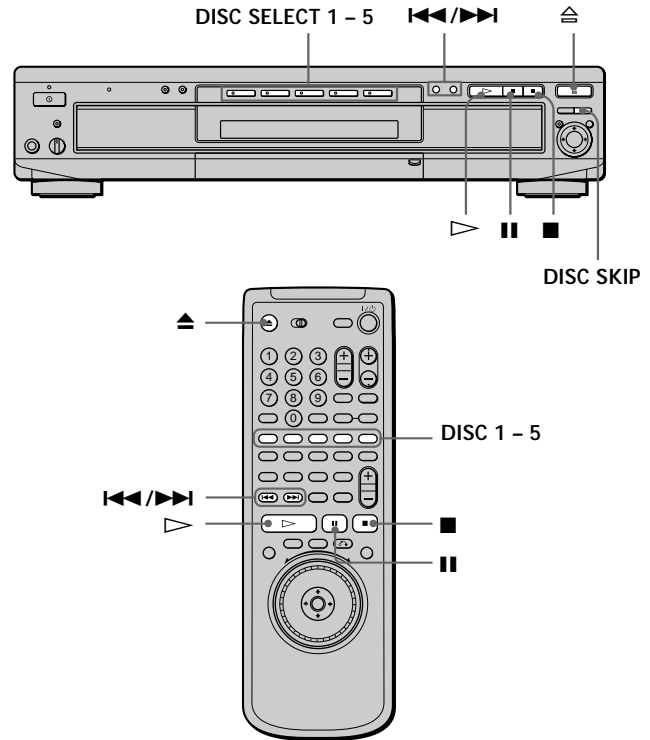
To	Operation
Select a disc	Press DISC SELECT 1 – 5 on the player or DISC 1 – 5 on the remote
Stop	Press ■
Pause	Press II
Resume play after pause	Press II or ▷
Go to the next disc	Press DISC SKIP on the player
Go to the next chapter, track or scene in continuous play mode	Press ▶▶I
Go back to the preceding chapter, track or scene in continuous play mode	Press I◀◀
Stop play and remove the disc	Press ⏏

You can play discs in various modes such as Program Play
using the on-screen menu (Control Menu). For Control
Menu operations, see page 28.

Playing at Various Speeds/Frame by Frame
📱 **DVD** **VIDEO CD** **CD**

Using the click shuttle and the JOG button/indicator, you can play back a DVD/CD/VIDEO CD at various speeds or frame by frame. Each time you press JOG, it changes between shuttle mode and jog mode.

JOG
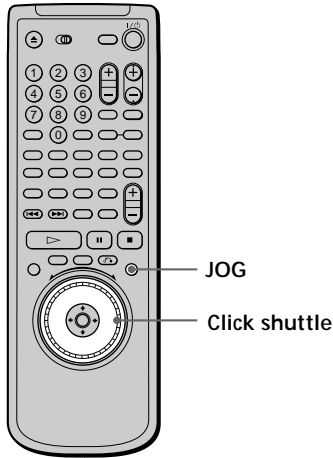
Click shuttle

To change the playback speed (Shuttle mode)

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

When you play back a DVD

During playback

FF2►► Fast forward (about 30 times the normal speed)
↕
FF1►► Fast forward (about 10 times the normal speed)
↕
×2► (about twice the normal speed)
↕
PLAY► (normal speed)
↕
×2◄ (about twice the normal speed)
↕
FR1◄◄ Fast rewind (about 10 times the normal speed)
↕
FR2◄◄ Fast rewind (about 30 times the normal speed)
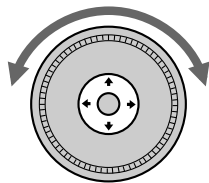
If you turn the click shuttle quickly, the playback speed goes to FF2►► or FR2◄◄ at once.

During pause

SLOW1▮► Slow (playback direction)
↕
SLOW2▮► Slow (playback direction – slower than "SLOW1▮► ")
↕
PAUSE▮▮ Pause
↕
SLOW2◄▮ Slow (opposite direction – slower than "SLOW1◄▮ ")
↕
SLOW1◄▮ Slow (opposite direction)

When you play back a CD/VIDEO CD

During playback

FF2►► Fast forward (faster than "FF1►►")
↕
FF1►► Fast forward
↕
×2► (about twice the normal speed)*
↕
PLAY► (normal speed)
↕
FR1◄◄ Fast rewind
↕
FR2◄◄ Fast rewind(faster than "FR1◄◄")
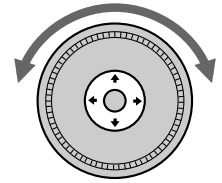
* CD Only

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

During pause (VIDEO CD only)

SLOW1▮► Slow (playback direction)
↕
SLOW2▮► Slow (playback direction – slower than "SLOW1▮► ")
↕
PAUSE▮▮ Pause

To return to continuous play
Press ▷.

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

To play the disc frame by frame (Jog mode) DVD VIDEO CD

1 Press JOG.
JOG lights up during jog mode.

2 Turn the click shuttle.
Depending on the turning speed, playback goes to frame-by-frame playback in the direction that the click shuttle is turned. If you turn the click shuttle at a constant speed for a while, the playback speed goes to slow or normal.

To return to Continuous Play
Press ▷.

Note
If you don't operate the click shuttle for about 20 seconds after pressing JOG, it returns to shuttle mode.

Resuming Playback from the Point Where You Stopped the Disc (Resume Play) DVD VIDEO CD CD

The player remembers the point where you stopped the disc, and when "RESUME" appears on the front panel display, you can resume playback from that point.
As long as you do not open the disc tray, Resume Play will work even if the player enters standby mode by pressing I/⏻ on the remote.
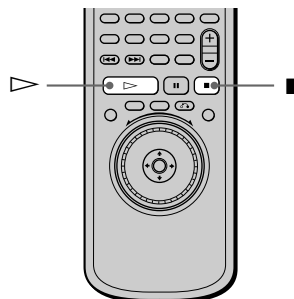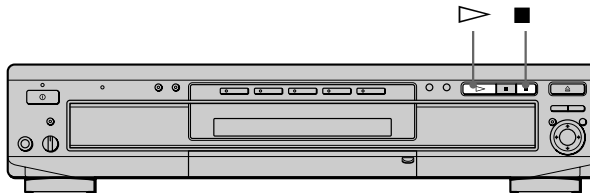
1 While playing a disc, press ■ to stop playback.
"RESUME" appears on the front panel display and "Disc will restart from current point. To start from beginning, press STOP again." appears on the TV screen.
If "RESUME" does not appear, Resume Play is not available.

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

💡 To play from the beginning of the disc
When the playing time appears on the front panel display before you start playing, press ■ to reset the playing time, then press ▷.

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

Notes
• Resume Play may not be available on some DVDs.
• 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 turn the power off by pressing ① on the player
  – you change the play mode
  – you start playback after selecting a title, chapter or track
  – you change the settings in the setup display
  – you press DISC EXPLORER
  – you load disc information by pressing LOAD
  – you press MEGA CONTROL (CTL)

Using the DVD's Menu **DVD**

Some DVDs have a title menu or a DVD menu that is
provided with DVDs only.

Using the title menu

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

TITLE ←/↑/↓/→ ENTER

TITLE

ENTER

←/↑/↓/→
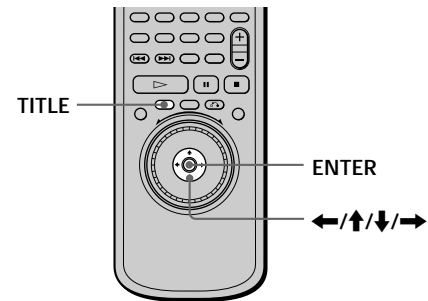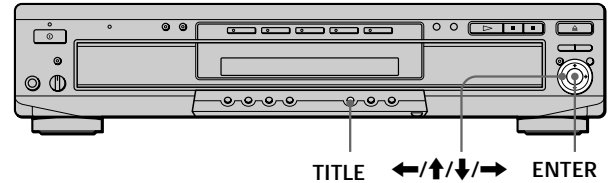
1 Press TITLE.
The title menu appears on the TV screen. The contents
of the menu vary from disc to disc.

2 Press ←/↑/↓/→ to select the title you want to
play.
Depending on the disc, you can use the number
buttons to select the title.

3 Press ENTER.
The player starts playing the selected title.

Notes
• On some DVDs, you may not be able to select the title.
• On some DVDs, 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 DVD menu

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

←/↑/↓/→   ENTER

DVD MENU

DVD MENU

ENTER

←/↑/↓/→
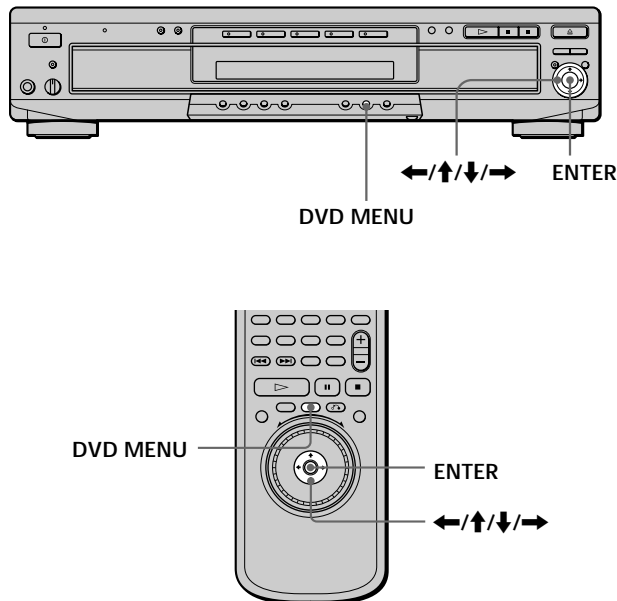
1 Press DVD MENU.
The DVD menu appears on the TV screen. The contents of the menu vary from disc to disc.

2 Press ←/↑/↓/→ to select the item you want to change.
Depending on the disc, you can use the number buttons to select the item.

3 To change other items, repeat Step 2.

4 Press ENTER.

ヅ If you want to select the language for the DVD menu
Change the setting using "DVD MENU" in "LANGUAGE SETUP" in the setup display. For details, see page 59.

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

Playing VIDEO CDs with PBC Functions (PBC Playback) VIDEO CD

When playing VIDEO CDs with PBC (Play Back Control) functions (Ver. 2.0 discs), you can enjoy simple interactive operations, search functions, and other such operations. PBC Playback allows you to play VIDEO CDs interactively by following the menu on the TV screen.
On this player, you can use the number buttons, ENTER, ⏮, ⏭, ↑/↓ and ♂RETURN during PBC Playback.

⏮/⏭   ENTER

♂RETURN   ▷   ↑/↓

Number buttons

⏮/⏭

▷

♂RETURN

ENTER

↑/↓
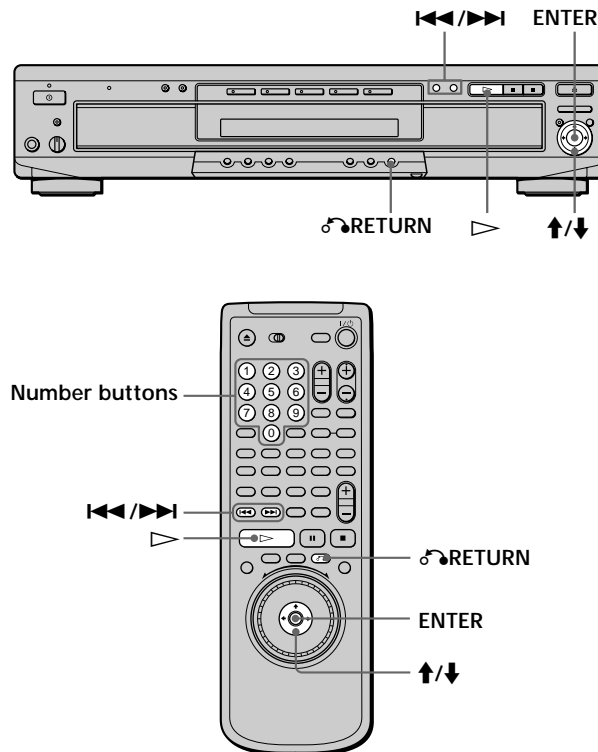
1 Start playing a VIDEO CD with PBC functions by following Steps 1 to 4 in "Playing Discs" on page 16.

2 Select the item number you want.
Press ↑/↓ to select the item number.
You can also select the item number with the number buttons on the remote.

3 Press ENTER.

4 Follow the instructions in the menu for interactive operations.
Refer to the instructions supplied with the disc, as the operating procedure may differ according to the VIDEO CD.

Playing VIDEO CDs with PBC Functions (PBC Playback)

To go back to the menu

Press ♂⟲RETURN, |◀◀ , or ▶▶|.

🔆 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.

  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. In this case, press ▷.

Replacing Discs while Playing a Disc (EXCHANGE)

You can open the disc tray while playing a disc so that you can check which discs are to be played next and replace discs without interrupting playback of the current disc.
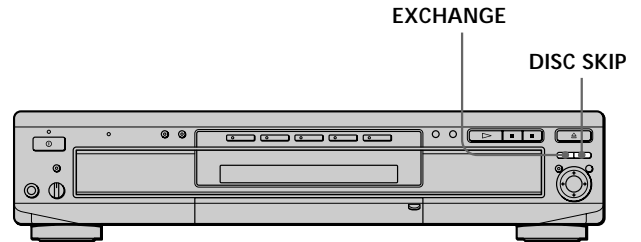
1 Press EXCHANGE.
The disc tray opens and two disc compartments appear. Even if the player is playing a disc, it doesn't stop playing.

2 Replace the discs in the compartments with new ones.

3 Press DISC SKIP.
The disc tray turns and another two disc compartments appear.

4 Replace the discs in the compartments with new ones.

5 Press EXCHANGE.
The disc tray closes.

🔆 While the disc tray is open after being opened with the EXCHANGE 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 49), the current disc starts playing again.
- In ALL DISCS Shuffle Play mode (page 48), titles/tracks/ chapters are reshuffled on the current disc.
- In Program Play mode (page 45), only the titles/tracks/ chapters on the current disc are played.

Note

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

Using the Front Panel Display 📱 **DVD** **VIDEO CD** **CD**

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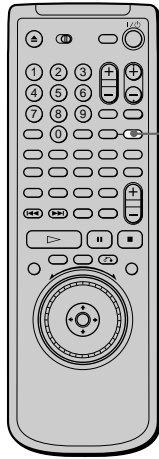
TIME/TEXT

When playing back a DVD **DVD**

Displaying information while playing the disc

Disc type

Playing status

1 disc or all discs play mode

Current disc number

Current title number

Current chapter number

Current surround format

Current play mode

Lights up when Text or Disc Memo is recorded

Playing time

Lights up when you can change the angle
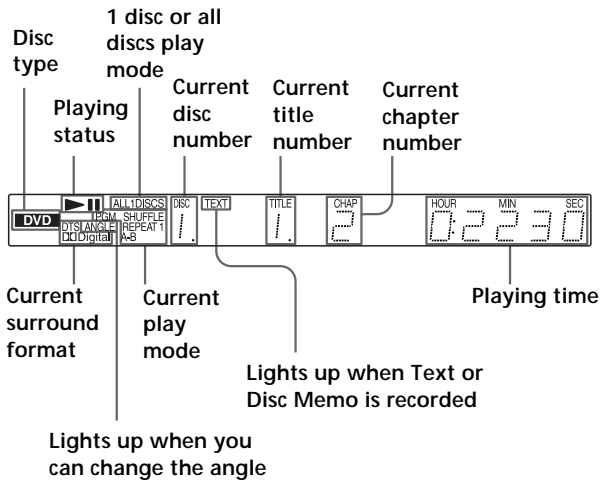
Checking the remaining time
Press TIME/TEXT.
Each time you press TIME/TEXT while playing the disc, the display changes as shown in the following chart.

Playing time and number of the current chapter
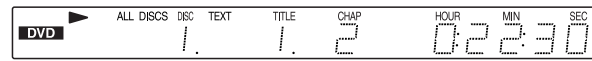
↓ Press TIME/TEXT

Remaining time of the current chapter
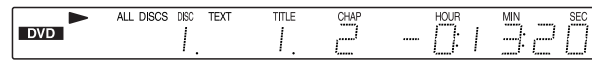
↓ Press TIME/TEXT

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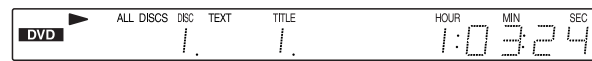
↓ Press TIME/TEXT

Remaining time of the current title
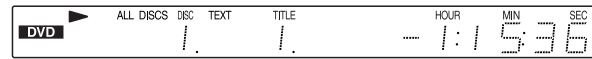
↓ Press TIME/TEXT

Text or Disc Memo
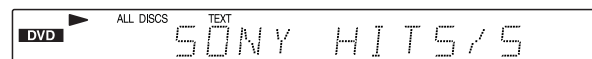
↓ Press TIME/TEXT

Notes
• On some DVDs, the chapter number or time may not appear or you may not be able to change the front panel display.
• While you are doing Shuffle Play or Program Play, the playing time of the title and the remaining time of the title are not displayed.

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Using the Front Panel Display

When playing back a CD/VIDEO CD
VIDEO CD **CD**

Displaying information while playing a disc

1 disc or all discs play mode

Current track number

Playing status

Current disc number

Current index number

Disc type

Current play mode

Lights up during PBC playback (VIDEO CD only)

Playing time

Lights up when Text or Disc Memo is recorded
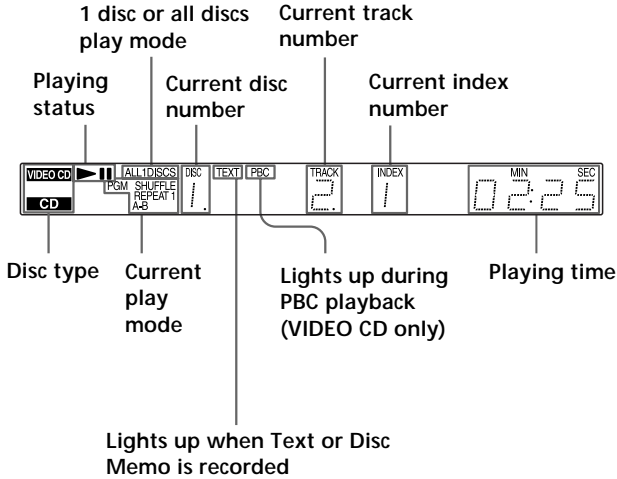
💡 **When playing VIDEO CDs with PBC functions**

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. If TEXT is recorded on the disc, the front panel display changes to the Text display when you press TIME/TEXT (see page 34).

Checking the remaining time
Press TIME/TEXT.
Each time you press TIME/TEXT while playing a disc, the display changes as shown in the following chart.

Playing time and current track number

↓ **Press TIME/TEXT**

Remaining time of the current track

↓ **Press TIME/TEXT**

Playing time of the disc
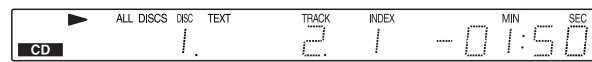
↓ **Press TIME/TEXT**

Remaining time of the disc

↓ **Press TIME/TEXT**

Text or Disc Memo
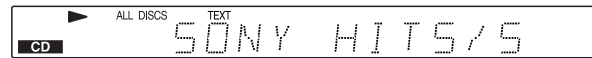
Press TIME/TEXT

Note
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.

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Displaying the Disc Information (Disc Explorer)

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

You can check the contents of each disc loaded.

Loading the disc information
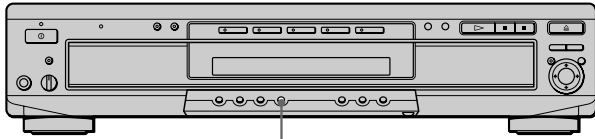
LOAD

Press LOAD on the player when the player is in stop or standby mode.
The player reads the disc information of all the discs and loads it into memory so that the disc type, titles and other text information can be displayed.

To cancel loading
Press ■.

ヅ **The player can load the disc information even when the power is in standby mode**
Press LOAD before turning on the player. The player reads and loads all the disc information.

Displaying the information of the loaded discs 🛈

You can look at the loaded disc information on the Disc Explorer, and also select the disc to be played on the Disc Explorer.

DISC EXPLORER

Number buttons

ENTER

←/↑/↓/→
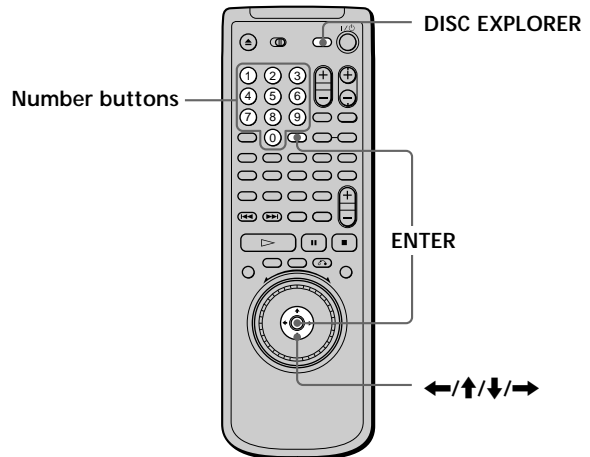
Press DISC EXPLORER.
The Disc Explorer appears. If a disc is playing, it will stop.

Disc tray number   Jacket picture   Genre   Disc type

DISC EXPLORER		
1	Super Car Chase	DVD
2	BRAHMS SYMPHONY4	CD
3	Skiing the World	Action / DVD
4	Music Madness	Pop / CD
5		VIDEO CD

Select: ←↑↓→ → ENTER Cancel: RETURN

Text information (DVD TEXT, CD TEXT, Disc Memo)   Current disc

Jacket picture
The jacket picture recorded on the disc appears automatically. If the jacket picture is not recorded, the genre picture recorded in the memory of the player is displayed when you select the genre.

Text information (DVD TEXT, CD TEXT or Disc Memo)
The text information (DVD TEXT or CD TEXT) recorded on the disc appears automatically. If no text information is recorded, you can store the text information (Disc Memo) yourself (page 34).

Playing Discs

25

Displaying the Disc Information (Disc Explorer)

Genre
You can select the genre of the disc yourself.

Disc type
The disc type appears automatically. "?" appears when the player has not loaded the disc information in the memory.

To select the disc on the Disc Explorer

1 Select the disc by pressing ↑/↓.

2 Press ENTER.
The Disc Explorer disappears and playback starts.

To cancel using the Disc Explorer
Press ⟲RETURN.

Notes
• If you open the tray, the disc information disappears. Press LOAD again to load the disc information.
• If you load or try to play an empty tray, it appears as a white blank in the Disc Explorer. You cannot select this.
• Even if the disc has a jacket picture recorded on it, the jacket picture may not appear on the Disc Explorer.

Selecting a genre

You can assign a genre to your disc.

←/↑/↓/→   ENTER

ENTER

←/↑/↓/→
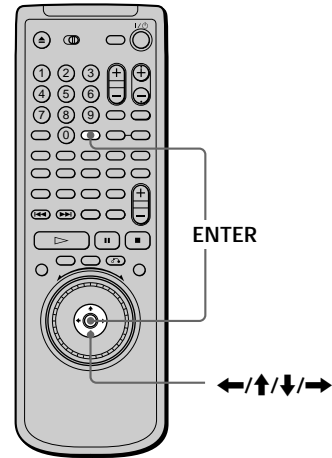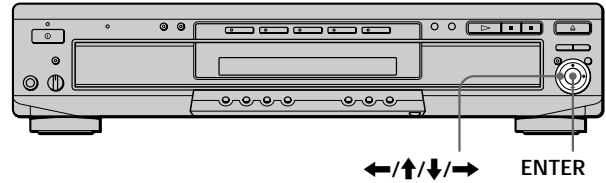
1 Select the disc on the Disc Explorer using ↑/↓, then press →.
The genre row only is highlighted.


```
DISC EXPLORER
1  Super Car Chase    Super Car Chase
                                          DVD
2                     BRAHMS SYMPHONY4
                                          CD
3  Ski                Skiing the World     Action
                                          DVD
4                     Music Madness        Pop
                                          CD
5                      ―――――――             VIDEO CD
Select: ← → → ENTER  Cancel: RETURN
```

2 Press ENTER.
The GENRE SELECTION display appears.

```
GENRE  SELECTION

Action       Classics     Comedy
Drama        Family       Horror
Non Feature  Sci–fi       Thriller
Western
Classical    Country      Jazz/R&B
Pop          Rock         Others

Select: ← ↑ ↓ → → ENTER  Cancel: RETURN
```

Playing Discs

3 Select the genre by using ←/↑/↓/→, then press
ENTER.
The genre for the selected disc is stored in memory. If
no jacket picture is recorded in the disc, the genre
picture in the memory of the player is displayed.

```
DISC EXPLORER
┌─┐┌────────┐ Super Car Chase
│1││Super Car Chase│              ┌────────┐
└─┘└────────┘                    │DVD     │
                                 └────────┘
┌─┐┌────────┐ BRAHMS SYMPHONY4   ┌────────┐
│2││        │                    │Classical│
└─┘└────────┘                    │CD      │
                                 └────────┘
┌─┐┌────────┐ Skiing the World   ┌────────┐
│3││Ski     │                    │Action  │
└─┘└────────┘                    │DVD     │
                                 └────────┘
┌─┐┌────────┐ Music Madness      ┌────────┐
│4││        │                    │Pop     │
└─┘└────────┘                    │CD      │
                                 └────────┘
┌─┐┌────────┐ ─────────          ┌────────┐
│5││        │                    │VIDEO CD│
└─┘└────────┘                    └────────┘
Select: ← → → ENTER  Cancel: RETURN
```

4 Press ← to return to the original Disc Explorer
display.

```
DISC EXPLORER
┌─┐┌────────┐ Super Car Chase
│1││Super Car Chase│              ┌────────┐
└─┘└────────┘                    │DVD     │
                                 └────────┘
┌─┐┌────────┐ BRAHMS SYMPHONY4   ┌────────┐
│2││        │                    │Classical│
└─┘└────────┘                    │CD      │
                                 └────────┘
┌─┐┌────────┐ Skiing the World   ┌────────┐
│3││Ski     │                    │Action  │
└─┘└────────┘                    │DVD     │
                                 └────────┘
┌─┐┌────────┐ Music Madness      ┌────────┐
│4││        │                    │Pop     │
└─┘└────────┘                    │CD      │
                                 └────────┘
┌─┐┌────────┐ ─────────          ┌────────┐
│5││        │                    │VIDEO CD│
└─┘└────────┘                    └────────┘
Select: ← ↑ ↓ → → ENTER  Cancel: RETURN
```
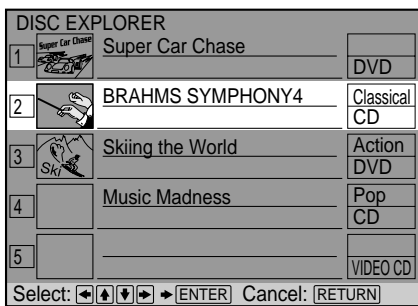
Using Various Functions with the Control Menu

This chapter describes how to play discs in various modes and how to use the convenient features of the on-screen menu (Control Menu).

Using the Control Menu Display DVD VIDEO CD CD

Using the Control Menu display, you can select the starting point, play scenes in any order you like, change the viewing angles, make Digital Cinema Sound settings, and other such operations.
The possible operations are different depending on the kind of disc.
For details on each Control Menu display item, see pages 31 to 55.

ENTER   DISPLAY

ꭥRETURN   ←/↑/↓/→

DISPLAY   ꭥRETURN

ENTER

←/↑/↓/→
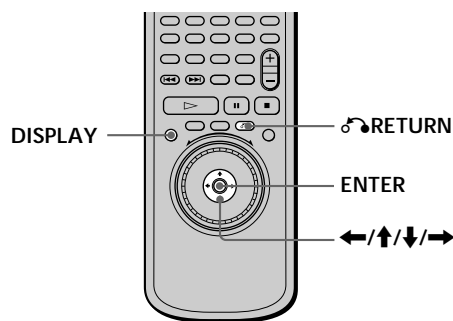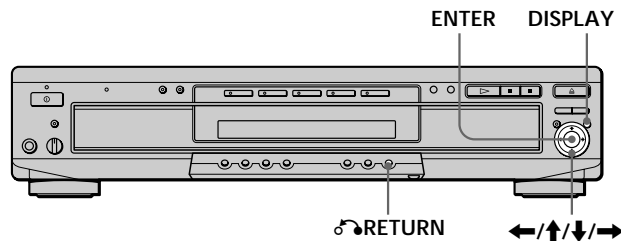
1 Press **DISPLAY** to show the Control Menu display on the TV screen.
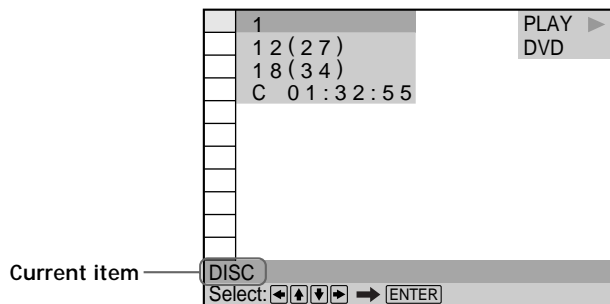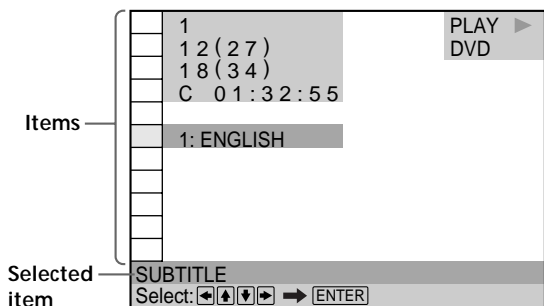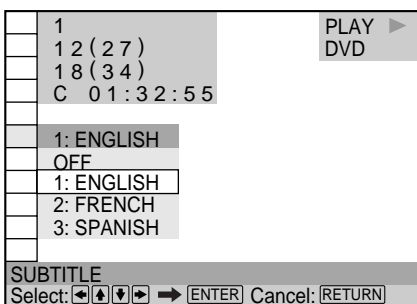
```
1                          PLAY  ▷
12(27)                     DVD
18(34)
C  01:32:55
```

Current item ─── DISC

Select: ◀▲▼▶ ➡ ENTER

2 Select the item you want using ↑/↓.

Items ——
Selected item ——

```
1                           PLAY ▶
12(27)                      DVD
18(34)
C  01:32:55

1: ENGLISH




SUBTITLE
Select: ◀▲▼▶ → ENTER
```

3 Press ENTER.

```
1                           PLAY ▶
12(27)                      DVD
18(34)
C  01:32:55

1: ENGLISH
OFF
1: ENGLISH
2: FRENCH
3: SPANISH

SUBTITLE
Select: ◀▲▼▶ → ENTER Cancel: RETURN
```

4 Select the item you want using ↑/↓.

```
1                           PLAY ▶
12(27)                      DVD
18(34)
C  01:32:55

1: ENGLISH
OFF
1: ENGLISH
2: FRENCH
3: SPANISH

SUBTITLE
Select: ◀▲▼▶ → ENTER Cancel: RETURN
```

—— Selected item
—— Items

5 Press ENTER.

```
1                           PLAY ▶
12(27)                      DVD
18(34)
C  01:32:55

OFF




SUBTITLE
Select: ◀▲▼▶ → ENTER
```
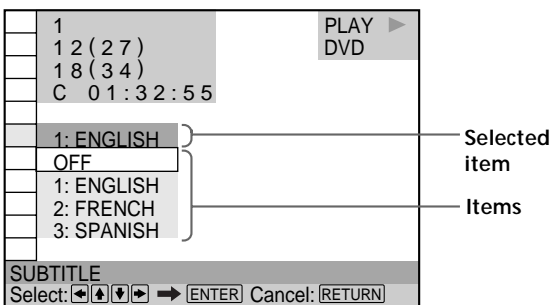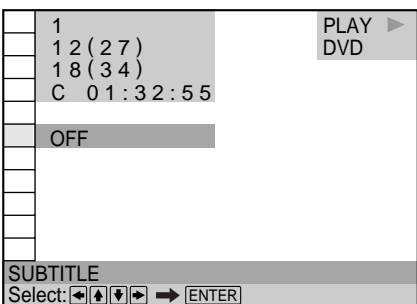
To cancel while making a selection
Press ⮌ RETURN.

To display other items
Each time you press DISPLAY, the Control Menu display changes as follows:

┌→ Control Menu display 1
│   ↓
│   Control Menu display 2
│   (The items except the first three items from the top
│   are changed to other items.)
│   ↓
│   ADVANCED display (see page 42)
│   ↓
└── Control Menu display off
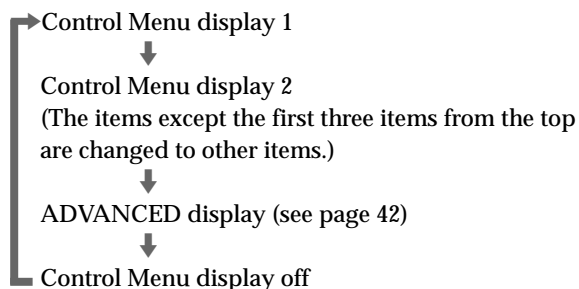
The Control Menu display items are different depending on the disc.

💡 **You can select some items directly**
Some items can be selected by pressing the corresponding button on the remote or on the player. In this case, only the item you selected is displayed. For instructions on using the buttons, see the pages of each relevant item. For a list of available buttons on the player and remote, see pages 82 and 84.

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

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Control Menu Item List

DISC (page 31)

TITLE (DVD only) (page 31)/
SCENE (VIDEO CD during PBC playback only) (page 31)/
TRACK (VIDEO CD only) (page 31)

CHAPTER (DVD only) (page 31)/
INDEX (VIDEO CD only) (page 31)

TRACK (CD only) (page 31)

INDEX (CD only) (page 31)

You can select a disc or search for a point on the disc by selecting the title, chapter, track, index or scene.

TIME/MEMO (pages 32, 33, 34)

TIME/TEXT (pages 32, 33, 34)

You can check the playing time and remaining time of the current title, chapter, track and the total playing time or remaining time of the disc.
You can also search for a scene by inputting the time code. You can check the DVD TEXT or CD TEXT of the disc on the TV screen and the front panel display. When the disc is a VIDEO CD or the DVD TEXT/CD TEXT is not recorded on the disc, you can label the disc using the Disc Memo function.

AUDIO (page 35)

If the DVD is recorded with multilingual tracks, you can select the language you want while playing the DVD.
If the DVD is recorded in multiple audio formats (PCM, Dolby Digital or DTS), you can select the audio format you want while playing the DVD.
With CDs or 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.

SUBTITLE (DVD only) (page 37)

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

ANGLE (DVD only) (page 38)

With DVDs on which various angles (multi-angles) are recorded, you can change the angle of the scene.

VIRTUAL 3D SURROUND (page 39)

Select one of the surround modes to enjoy multichannel Dolby Digital DVDs with only 2 or 4 speakers.
When you connect only 2 front speakers, Virtual Enhanced Surround (VES) and VIRTUAL SEMI MULTI DIMENSION let you enjoy 3D sound by using 3D sound imaging to create virtual rear speakers from the sound of the front speakers (L, R) without using actual rear speakers.
When you connect 2 front speakers and 2 rear speakers, you can use this function's 3D sound imaging to shift the sound of the rear speakers away from the actual speaker position (VIRTUAL REAR SHIFT) or create 3 sets of virtual rear speakers from 1 set of actual rear speakers (VIRTUAL MULTI REAR, etc.).

ADVANCED (DVD only) (page 42)

You can check play information about the bit rate or the position where the disc is being played (layer).

CUSTOM PARENTAL CONTROL (page 43)

Using a registered password, you can set playback restrictions for a desired disc.
The same password is used for both Parental Control (page 62) and Custom Parental Control.

SETUP (page 56)

Using the setup display, you can do the initial setup, adjust the picture and sound and set the various outputs. You can also set a language for the subtitles and the setup display, limit playback by children, and so on. For details about the setup display, see page 56.

1/ALL DISCS (page 45)

You can have the player play one or all of the discs. You can switch between one disc mode or all disc mode in the Program Play, Shuffle Play and Repeat Play modes.

PROGRAM (page 45)

You can play the contents of the disc(s) in the order you want by arranging the order of the titles, chapters or tracks on the disc(s) to create your own program.

SHUFFLE (page 48)

You can have the player "shuffle" titles, chapters or tracks and play them in a random order. Subsequent "shuffling" may produce a different playing order.

REPEAT (page 49)

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

A-B REPEAT (page 50)

You can play a specific portion of a title, chapter, or track repeatedly.

VIDEO EQUALIZER (DVD, VIDEO CD only) (page 51)

You can adjust the video output of the DVD or VIDEO CD from the player, not from the TV, to obtain the picture quality you want.

DIGITAL VIDEO ENHANCER (DVD, VIDEO CD only) (page 52)

You can make the picture clearer by emphasizing the outlines of images on your TV screen.

VIEWER (DVD, VIDEO CD only) (page 53)

You can divide the screen into 9 sections (quick reference screen) and quickly search for a scene or a bookmark.

Searching for a Disc/Title/ Chapter/Track/Index/Scene

 DVD VIDEO CD CD

You can select a disc, or search the disc by title, chapter, track, index or scene.

Select "DISC," "TITLE," "CHAPTER," "TRACK," "INDEX" or "SCENE" after pressing DISPLAY.
When you play back a DVD, "TITLE" and "CHAPTER" are displayed.
When you play back a VIDEO CD/CD, "TRACK" and "INDEX" are displayed. When you play back a VIDEO CD with PBC functions, "SCENE" is displayed.
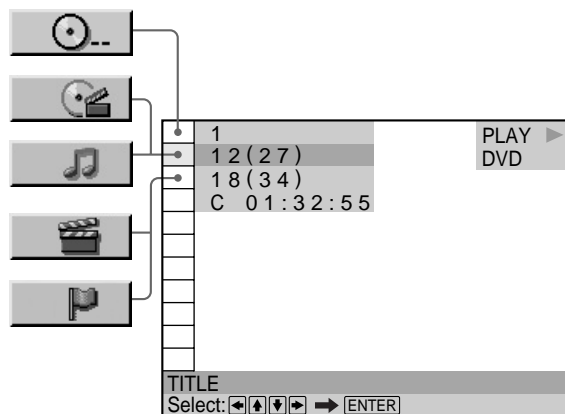
1 Select "DISC," "TITLE," "CHAPTER," "TRACK," "INDEX" or "SCENE" using ↑/↓.

"✱✱ (✱✱)" is highlighted (✱✱ refers to a number).
The number in parentheses indicates the total number of titles, chapters, tracks, indexes or scenes.

31
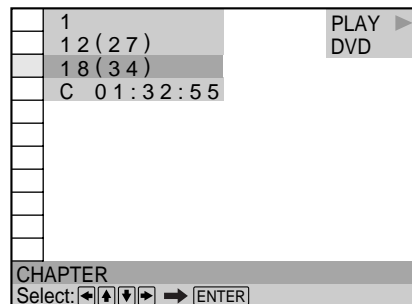
Searching for a Disc/Title/Chapter/Track/
Index/Scene

2 Press ➡ or ENTER.
"✽✽(✽✽)" changes to "——(✽✽)".

```
┌─┬──────────────────────────────────┐
│ │ 2                    PLAY ►       │
│ │ 12(27)               DVD          │
│ │ ――(34)                            │
│ │ C 01:32:55                        │
├─┤                                   │
├─┤                                   │
├─┤                                   │
├─┤                                   │
├─┤                                   │
├─┤                                   │
│ │ CHAPTER                           │
│ │ Number buttons ➡ ENTER Cancel:RETURN│
└─┴──────────────────────────────────┘
```
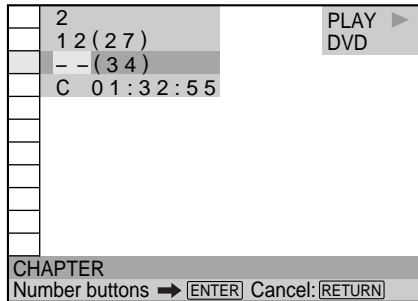
3 Select the number of the disc, title, chapter, track, index or scene you want to search for using the number buttons, then press ENTER.
The player starts playback at the selected number.
To cancel the number, press CLEAR before pressing ENTER.

To cancel while making a selection
Press ⌒RETURN.

💡 **You can select a disc directly**
Press DISC SELECT 1 – 5 on the player or DISC 1 – 5 on the remote.

Notes
• The title, chapter or track number displayed is the same number recorded on the disc.
• The index numbers are not displayed during PBC playback of VIDEO CDs.

Checking the Playing Time and Remaining Time
🎴 **DVD** **VIDEO CD** **CD**

You can check the playing time and remaining time of the current title, chapter or track and the total playing time or remaining time of the disc.

Press DISPLAY. Then press TIME/TEXT on the remote to change the time information.
You can also check the DVD TEXT, CD TEXT or Disc Memo, and label the disc. See page 34.

```
┌──────┐   ┌─┬──────────────────────────────────┐
│      │   │ │ 1                    PLAY ►       │
│  🕐✎ │──▶│ │ 12(27)               DVD          │
│      │   │ │ 18(34)                            │
└──────┘   │ │ C 01:32:55                        │
┌──────┐ ──┤ │                                   │
│      │   ├─┤                                   │
│  🕐➡ │   ├─┤                                   │
│      │   ├─┤                                   │
└──────┘   ├─┤                                   │
           ├─┤                                   │
           │ │ TIME/MEMO                         │
           │ │ Select:◀▲▼▶ ➡ ENTER               │
           └─┴──────────────────────────────────┘
```
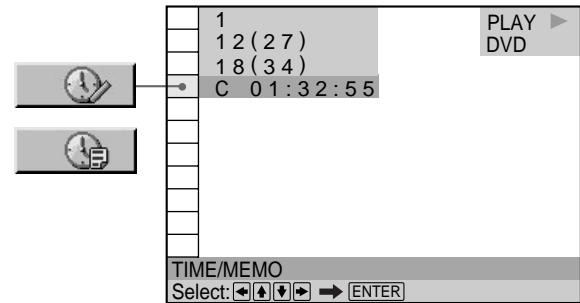
When playing a DVD
■ **TIME/MEMO or TIME/TEXT**
• C ✽✽:✽✽:✽✽ : Playing time of the current chapter
• C –✽✽:✽✽:✽✽ : Remaining time of the current chapter
• T ✽✽:✽✽:✽✽ : Playing time of the current title
• T –✽✽:✽✽:✽✽ : Remaining time of the current title

When playing a VIDEO CD (during PBC playback)
■ **TIME/MEMO**
• ✽✽:✽✽ : Playing time of the current scene

When playing a VIDEO CD (in continuous play) or CD
■ **TIME/MEMO or TIME/TEXT**
• T ✽✽:✽✽ : Playing time of the current track
• T –✽✽:✽✽ : Remaining time of the current track
• D ✽✽:✽✽ : Playing time of the current disc
• D –✽✽:✽✽ : Remaining time of the current disc

💡 **You can select "TIME/MEMO" or "TIME/TEXT" directly**
Press TIME/TEXT on the remote. Each time you press the button, the time information changes.

Selecting a Starting Point Using the Time Code 📱 **DVD**

You can search for a starting point by inputting the time code.

Select "TIME/MEMO" or "TIME/TEXT" after pressing DISPLAY.
The time code corresponds to the approximate actual playing time. For example, to search for a scene 2 hours 10 minutes 20 seconds past the beginning, input 2:10:20.

1 Select "C ✳✳:✳✳:✳✳" (playing time of the current chapter) when playing a DVD.
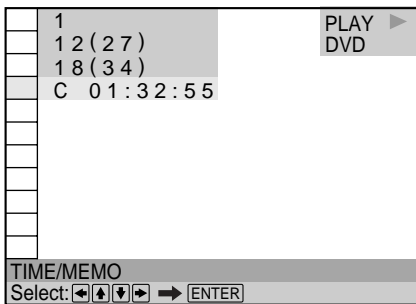
2 Press ➡ or ENTER.
Time code changes to "T – – : – – : – –".

3 Input the time code using the number buttons, then press ENTER.
The player starts playback at the selected time code.
To cancel the number, press CLEAR before pressing ENTER.

To cancel while making a selection
Press ↩RETURN.

Note
When you input the time code, input the playing time of the title, not the chapter or track time.

Using Various Functions with the Control Menu

33

Labeling the Disc 📶 **DVD** **VIDEO CD** **CD**
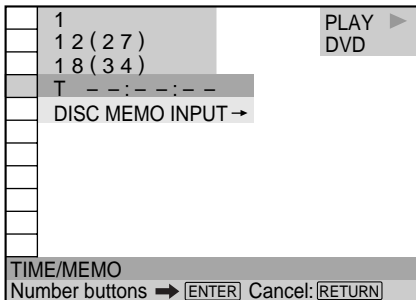
You can label discs so that the label appears on your TV screen and the front panel display when you play the disc. If the disc already has DVD TEXT or CD TEXT recorded on it, then this information will appear instead.

Press DISPLAY. "TIME/MEMO" appears. Press TIME/TEXT on the remote until the Disc Memo appears at the bottom of the display. If the disc does not contain a label, "NO TEXT" is displayed. Follow the steps below to label a disc.
If the disc has DVD TEXT or CD TEXT already recorded on it, "TIME/TEXT" appears instead. Press TIME/TEXT on the remote until the information is displayed at the bottom of the display. You cannot change this information.

Disc Memo or DVD/CD TEXT
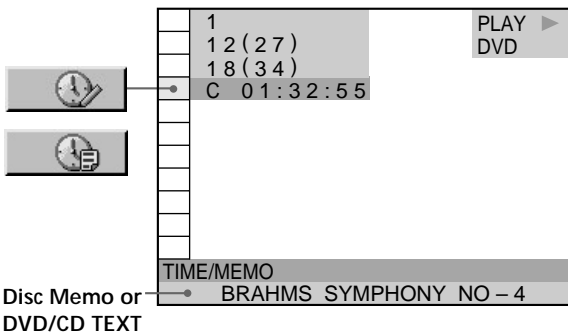
ʾ☿ **You can select "TIME/MEMO" or "TIME/TEXT" directly**
Press TIME/TEXT on the remote. To display DVD/CD TEXT or Disc Memo, press TIME/TEXT until DVD/CD TEXT or Disc Memo is displayed.

ʾ☿ **You can view the entire DVD/CD TEXT or Disc Memo recorded on the disc**
DVD/CD TEXT or Disc Memo is scrolled on the front panel display.

Note
This player can only display the first level of DVD/CD TEXT information.

Labeling discs (Disc Memo)

When DVD TEXT or CD TEXT is not recorded on the disc, you can put a personal title on the disc by labeling it on the on-screen display. You can input up to 20 characters per disc.
You can also 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 Select the disc you want to label.

2 Select "TIME/MEMO" and press ENTER.
"DISC MEMO INPUT➡" appears.
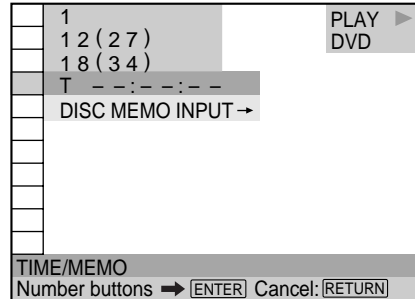
3 Select "DISC MEMO INPUT➡" and press ENTER.
The DISC MEMO INPUT display appears.
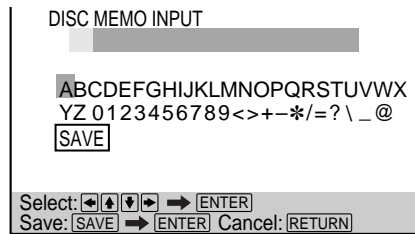
4 Select a character by pressing ←/↑/↓/→ or by turning the click shuttle on the remote.
The selected character changes color.
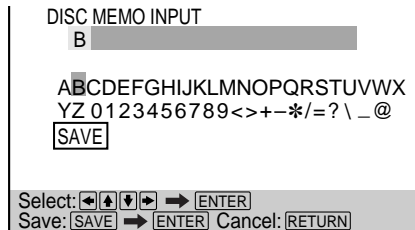
5 Press ENTER.
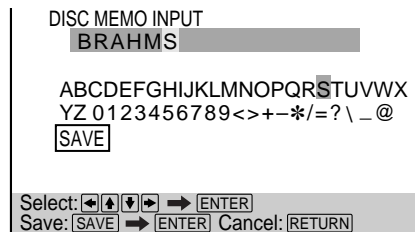
6 Repeat Steps 4 and 5 to input other characters.

7 When you have entered all the characters for the Disc Memo, select $\boxed{\text{SAVE}}$ by pressing ←/↑/↓/→ and then press ENTER.
The Disc Memo is stored.

```
┌─┐ ┌──────────────────────────┐
│ │ │ 1                PLAY  ▶ │
├─┤ │ 1 2 ( 2 7 )      DVD     │
├─┤ │ 1 8 ( 3 4 )              │
├─┤ │ C  0 1 : 3 2 : 5 5       │
├─┤ │                          │
├─┤ │                          │
├─┤ │                          │
├─┤ │                          │
├─┤ │                          │
├─┤ │                          │
├─┤ │ TIME/MEMO                │
└─┘ │  BRAHMS  SYMPHONY  NO – 4│
    └──────────────────────────┘
```
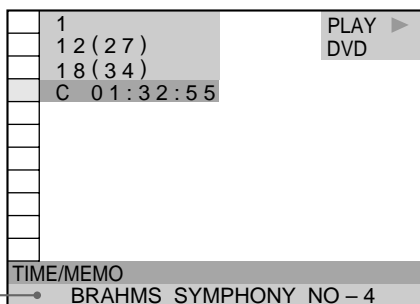
Disc Memo or DVD/CD TEXT

To correct the characters
- To erase the characters:
  1 Move the cursor to the character you want to erase by pressing |◀◀ or ▶▶|.
  2 Press CLEAR.
- To insert or overwrite the characters:
  1 Move the cursor to the character you want to correct by pressing |◀◀ or ▶▶|.
  2 Select the correct character by pressing ←/↑/↓/→ or by turning the click shuttle on the remote.
  3 To insert the character, press ENTER.
  To overwrite, don't press ENTER but move the cursor by pressing |◀◀ or ▶▶|.

ジ゙ **You can save the Disc Memo using the remote**
After you have entered the characters, press INPUT on the remote to store the Disc Memo.

ジ゙ **You can display the Disc Memo input display using the remote**
Press INPUT on the remote.

Notes
- Do not turn off the player by pressing ①. Doing so may cancel the settings. When you turn off the player, press ■ first to stop playback and then press I/① on the remote. After the power indicator lights up in red and the player enters standby mode, press ① on the player.
- You can label up to 300 discs. When you have the player store over 300 discs in memory, each new Disc Memo erases the oldest Disc Memo from those first stored.

Changing the Sound
DVD **VIDEO CD** **CD**

If the DVD is recorded with multilingual tracks, you can select the language you want while playing the DVD.
If the DVD is recorded in multiple audio formats (PCM, Dolby Digital or DTS), you can select the audio format you want while playing the DVD.
With multiplex CDs or 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 its stereo effect. For example, with a disc containing a song, the right channel may output the vocals and the left channel may output the instrumental. If you only want to hear the instrumental, you can select the left channel and hear it from both speakers.

Select "AUDIO" after pressing DISPLAY.

```
        ┌─┐ ┌──────────────────────────┐
        │ │ │ 1                PLAY  ▶ │
        ├─┤ │ 1 2 ( 2 7 )      DVD     │
        ├─┤ │ 1 8 ( 3 4 )              │
┌──────┐├─┤ │ C  0 1 : 3 2 : 5 5       │
│ ◁))  ││ │ │ 1: ENGLISH   PROGRAM FORMAT│
└──────┘├─┤ │ 1: ENGLISH   DOLBY DIGITAL 3/2.1│
        ├─┤ │ 2: ENGLISH               │
        ├─┤ │ 3: FRENCH    [L] [C] [R] │
        ├─┤ │                  [LFE]   │
        ├─┤ │              [LS]    [RS]│
        ├─┤ │ AUDIO                    │
        └─┘ │ Select:◀↑↓▶ → ENTER Cancel:RETURN│
            └──────────────────────────┘
```
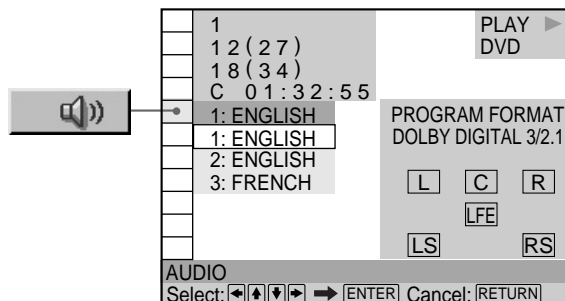
■ AUDIO
When playing a DVD
Select the language. The languages you can select are different depending on the DVD. When 4 digits are displayed, they represent the language code. Select the language code from the list on page 81.
When the same language is displayed two or more times, the DVD is recorded in multiple audio formats. The current audio format is shown on the "PROGRAM FORMAT" display.

When playing a VIDEO CD or a CD
The default setting is underlined.
- STEREO : The standard stereo sound
- 1/L : The sound of the left channel (monaural)
- 2/R : The sound of the right channel (monaural)

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Changing the Sound

ʾ̣ʾ You can select "AUDIO" directly
Press AUDIO on the remote. Each time you press the button, the
item changes.

Notes
- Depending on the DVD, you may not be able to change the
  languages even if multilingual tracks are recorded on the DVD.
- While playing the CD/VIDEO CD, standard stereo playback
  will be resumed when:
  – you open or close the disc tray
  – the player enters standby mode by pressing I/⏻ on the
    remote
  – you turn the power off by pressing ① on the player
- While playing the DVD, the sound may be changed when:
  – you open or close the disc tray
  – you change the title

Displaying the audio information of the disc DVD

When you select "AUDIO," the channels being played are
displayed on the screen.
For example, in Dolby Digital format, multiple signals
ranging from monaural to 5.1 channel signals can be
recorded on a DVD. Depending on the DVD, the number
of the recorded channels may be different.

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

For Dolby Digital 5.1 ch:

Rear component 2

DOLBY DIGITAL 3 / 2 . 1

Front component 2
+ Center component 1

LFE (Low
Frequency Effect)
component 1
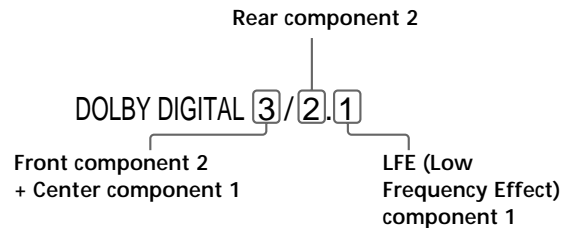
** The letters in the program format display mean the
   following:
   L: Front (left)
   R: Front (right)
   C: Center (monaural)
   LS: Rear (left)
   RS: Rear (right)
   S: Rear (monaural) – the rear component of the
         Dolby Surround processed stereo signal and the
         Dolby Digital signal.
   LFE: LFE (Low Frequency Effect)

The display examples are as follows:
•PCM (stereo)

```
  C  0 1 : 3 2 : 5 5
  1: ENGLISH          PROGRAM FORMAT
                      PCM 48kHz 24bit




AUDIO
Select: ◄▲▼► ➡ ENTER
```

•Dolby Surround

```
  C  0 1 : 3 2 : 5 5
  1: ENGLISH          PROGRAM FORMAT
                      DOLBY DIGITAL  2/0
                      DOLBY SURROUND
                       L   C   R


                           S
AUDIO
Select: ◄▲▼► ➡ ENTER
```
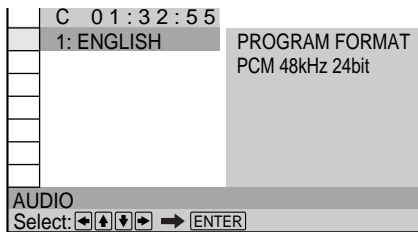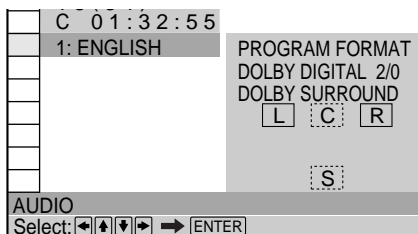
•Dolby Digital 5.1ch
When an LFE signal component is output, "LFE" is
enclosed in a solid line. When an LFE signal component
is not output, "LFE" is enclosed in a broken line.

```
  C  0 1 : 3 2 : 5 5
  1: ENGLISH          PROGRAM FORMAT
                      DOLBY DIGITAL 3/2.1

                       L    C    R
                           LFE
                      LS        RS
AUDIO
Select: ◄▲▼► ➡ ENTER
```

•DTS
When an LFE signal component is output, "LFE" is
enclosed in a solid line. When an LFE signal component
is not output, "LFE" is enclosed in a broken line.

```
  C  0 1 : 3 2 : 5 5
  1: ENGLISH          PROGRAM FORMAT
                      DTS 3/2.1

                       L    C    R
                           LFE
                      LS        RS
AUDIO
Select: ◄▲▼► ➡ ENTER
```
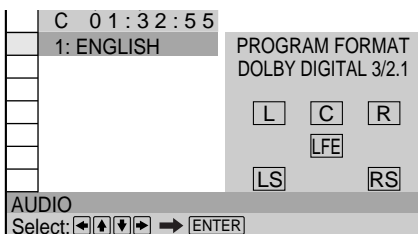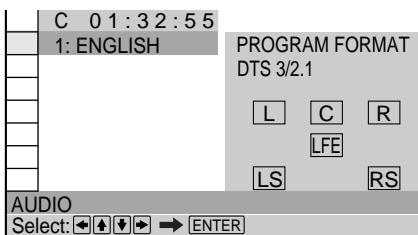
Note
When the signal contains rear signal components such as LS, RS
or S, the Virtual 3D Surround effect is enhanced (page 39).

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, and turn it on or off whenever
you want. For example, you can select the language you
want to practice and turn the subtitles on for better
understanding.

Select "SUBTITLE" after pressing DISPLAY.

```
        1                       PLAY  ►
        1 2 ( 2 7 )             DVD
        1 8 ( 3 4 )
        C  0 1 : 3 2 : 5 5

        1: ENGLISH
        OFF
        1: ENGLISH
        2: FRENCH
        3: SPANISH

SUBTITLE
Select: ◄▲▼► ➡ ENTER Cancel: RETURN
```
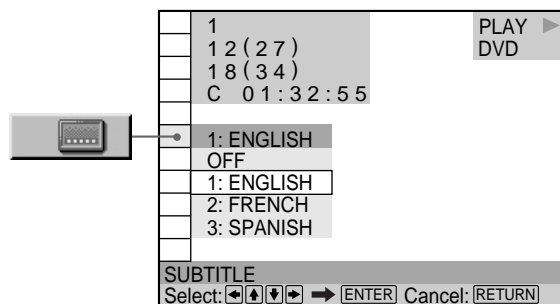
■ SUBTITLE
Select the language. The languages you can select are
different depending on the DVD. When 4 digits are
displayed, they indicate the language code. Select the
language code from the list on page 81.

💡 You can select "SUBTITLE" directly
Press SUBTITLE on the remote. Each time you press the button,
the item changes.

Notes
• When playing a DVD on which no subtitles are recorded, no
  subtitles appear.
• 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.
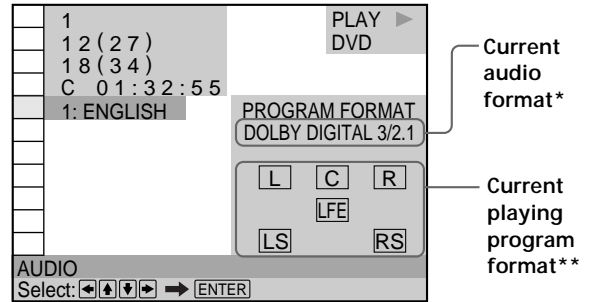• The type and number of languages for subtitles vary from disc
  to disc.
• Depending on the DVD, you may not be able to change the
  subtitles even if multilingual subtitles are recorded on it.
• While playing the DVD, the subtitle may change when:
  – you open or close the disc tray
  – you change the title

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Changing the Angles 🎤 DVD

With DVDs on which various angles (multi-angles) for a
scene are recorded, you can change the angles. For
example, while playing a scene of a train in motion, you
can display the view from either the front of the train, the
left window of the train or from the right window without
having the train's movement interrupted.

Select "ANGLE" after pressing DISPLAY. When the
angles can be changed, the "ANGLE" indicator lights up
in green.
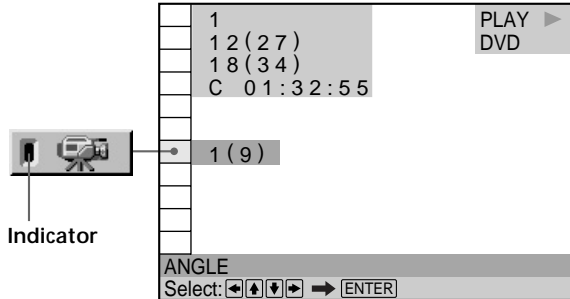
Indicator

1 Select "ANGLE."
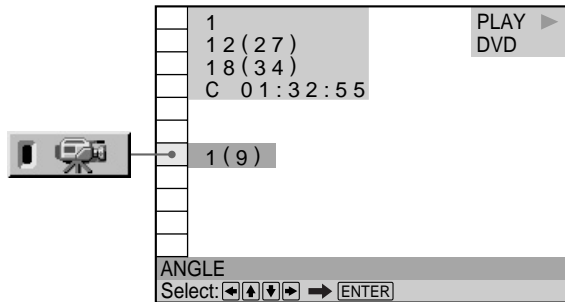
2 Press ➡.
The number of the angle changes to "–". The number
in parentheses indicates the total number of angles.
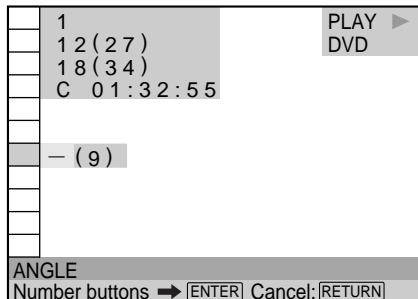
3 Select the angle number using the number buttons
or ↑/↓, then press ENTER.
The angle is changed to the selected angle.
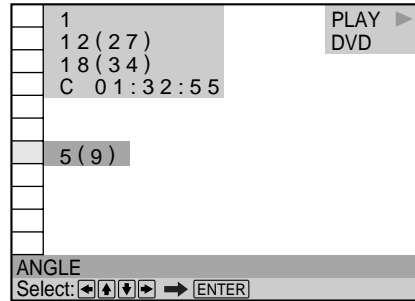
💡 **You can select the angle directly**
Press ANGLE on the remote. Each time you press the button, the
angle changes.

💡 **You can display different angles simultaneously (ANGLE
VIEWER)**
You can display all the angles recorded on the disc on the same
screen, and start playback in continuous mode from the chosen
angle directly. The angles are displayed on a screen divided in 9
sections. For details, see page 53.

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
  equal to the number 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.

Using Various Functions with the Control Menu

Digital Cinema Sound Settings DVD VIDEO CD

You can enjoy 3D surround sounds while playing discs including Dolby Digital and DTS DVDs, even if you only have 2 or 4 speakers. Select the surround mode that best suits your speaker setup.
You can also experience virtual 3D surround sound effects through your headphones.

Select "VIRTUAL 3D SURROUND" after pressing DISPLAY. When you select any item except "OFF," the "VIRTUAL 3D SURROUND" indicator lights up in green.

```
┌─────────────────────────────────┐
│ 1                     PLAY ▶     │
│ 1 2 ( 2 7 )           DVD        │
│ 1 8 ( 3 4 )                      │
│ C  0 1 : 3 2 : 5 5               │
│                                  │
│                                  │
│              VES TV              │
│  ((▣))       ▲                   │
│              VES TV              │
│              VES A               │
│                     ▼            │
│ VIRTUAL 3D SURROUND              │
│ Select:◀▲▼▶ → ENTER Cancel:RETURN│
└─────────────────────────────────┘
```
Indicator
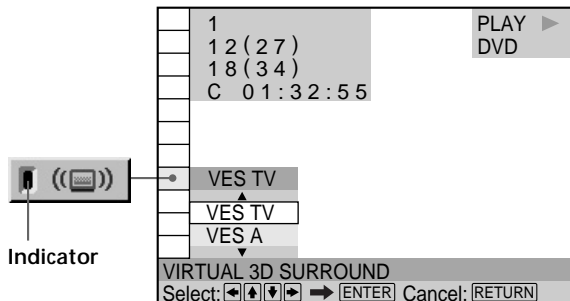
■ VIRTUAL 3D SURROUND
The default setting is underlined.
- OFF

For 2 speaker setups
- VES TV
- VES A
- VES B
- VIRTUAL SEMI MULTI DIMENSION

For 4 (or more) speaker setups
- NORMAL SURROUND
- ENHANCED SURROUND
- VIRTUAL REAR SHIFT
- VIRTUAL MULTI REAR
- VIRTUAL MULTI DIMENSION

When using headphones
- VIRTUAL SURROUND HEADPHONES

Select the desired item. For details on each item, see the following explanation.

Notes
- If you connect only 2 front speakers, you can only use "VES TV," "VES A," "VES B" or "VIRTUAL SEMI MULTI DIMENSION." If you connect more speakers, we recommend that you select an item other than those above.
- To enjoy the original Dolby Digital sound through the 5.1CH OUTPUT connectors, correctly set each speaker position and distance. For details on setting each speaker, see page 67.

For 2 speaker setups

When you connect only 2 front speakers, Virtual Enhanced Surround lets you enjoy surround sound effects by using 3D sound imaging to create virtual rear speakers from the sound of the front speakers (L: left, R: right) without using actual rear speakers. Select one of the following modes:
VES TV, VES A, VES B, VIRTUAL SEMI MULTI DIMENSION.
If the player is set up to output the signal from the DIGITAL OUT (OPTICAL or COAXIAL) connector, the surround effect will be heard only when you set "DOLBY DIGITAL" to "D-PCM" and "DTS" to "D-PCM" in "AUDIO SETUP."

OFF
Outputs all channel signals recorded on the disc. For example, outputs 2-channel signals for the stereo sound of a CD or the Dolby Digital and DTS sounds of the DVD. When you connect fewer than 6 speakers, the player appropriately distributes the output signal for the missing speaker to other speakers.

VES (Virtual Enhanced Surround) TV
Uses 3D sound imaging to create virtual rear speakers from the sound of the front speakers (L, R) without using actual rear speakers. This mode is effective when the distance between the front L and R speakers is short, such as built-in speakers on a stereo TV.

VES (Virtual Enhanced Surround) 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 the illustration below.

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Digital Cinema Sound Settings

VES (Virtual Enhanced Surround) 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 the illustration below.
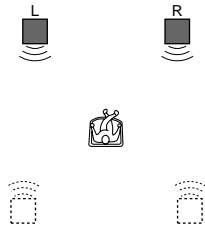
VIRTUAL SEMI MULTI DIMENSION

Uses 3D sound imaging to create virtual rear speakers from the sound of the front speakers (L, R) without using actual rear speakers. This mode creates 5 sets of virtual speakers surrounding the listener at a 30˚ angle of elevation.
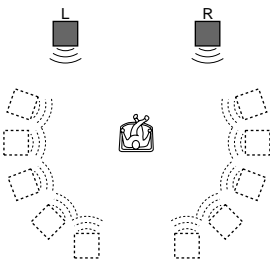
L: Front speaker (left)
R: Front speaker (right)
: Virtual speaker

For 4 (or more) speaker setups

When you connect 2 front speakers and 2 rear speakers, you can enjoy Dolby Surround (Pro Logic) sounds, or use 3D sound imaging to shift the sound of the rear speakers away from the actual speaker position or create entire sets of virtual rear speakers from 1 set of actual rear speakers. Select one of the following modes:
NORMAL SURROUND, ENHANCED SURROUND, VIRTUAL REAR SHIFT, VIRTUAL MULTI REAR, VIRTUAL MULTI DIMENSION.

OFF

Outputs all channel signals recorded on the disc. For example, outputs 2-channel signals for the stereo sound of a CD or the Dolby Digital and DTS sounds of the DVD. When you connect fewer than 6 speakers, the player appropriately distributes the output signal for the missing speaker to other speakers.

NORMAL SURROUND

Software with 2 channel audio signals is decoded with Dolby Surround (Pro Logic) to create surround effects. The rear speakers will emit identical monaural sounds. If you are using a center speaker, Dolby Surround (Pro Logic) will also create the appropriate sounds for the center speaker.
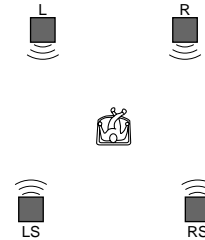
ENHANCED SURROUND

Provides a greater sense of presence from a Dolby Surround (Pro Logic) source with a monaural rear channel signal. Produces a stereo like effect in the rear channels.

VIRTUAL REAR SHIFT

Uses 3D sound imaging to shift the sound of the rear speakers away from the actual speaker position. The virtual speakers are reproduced as shown in the illustration below. The shift postion differs according to the setting of the rear speaker position (page 68).

SIDE   REAR
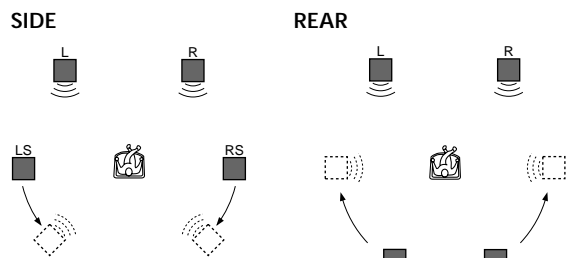
VIRTUAL MULTI REAR

Uses 3D sound imaging to create an array of virtual rear speakers from a single pair of actual rear speakers. The virtual speakers are reproduced as shown in the illustration below. The position of the virtual rear speakers differs according to the setting of the rear speaker position (page 68).

SIDE   REAR
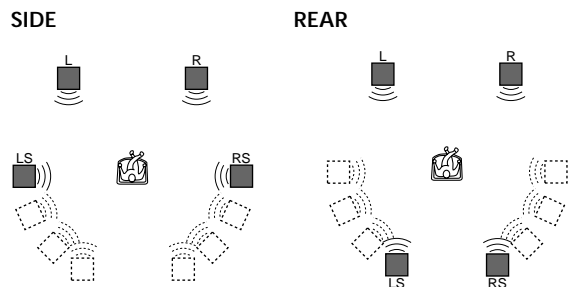
VIRTUAL MULTI DIMENSION
Uses 3D sound imaging to create an array of virtual rear speaker positions higher than the listener from a single pair of actual rear speakers. This mode creates 5 sets of virtual speakers surrounding the listener at approximately a 30˚ angle of elevation. The effect differs according to the setting of the rear speaker position (page 68).

SIDE   REAR
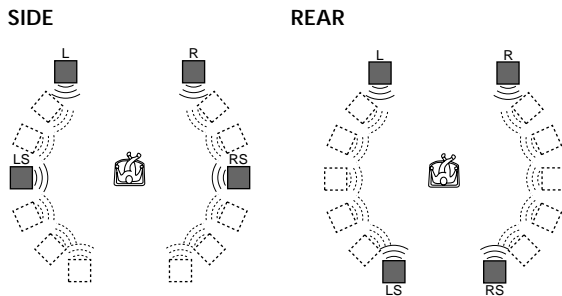
L: Front speaker (left)
R: Front speaker (right)
LS: Rear speaker (left)
RS: Rear speaker (right)
▢: Virtual speaker

💡 You can select ″VIRTUAL 3D SURROUND″ directly
Press VIRTUAL 3D SURROUND on the player. Each time you press the button, the mode changes.

Notes
• When you select an item, the sound cuts off for a moment.
• When the playing signal does not contain a signal for the rear speakers, the 3D surround effects may be difficult to hear.
• When you connect a center speaker and a subwoofer, you can also hear the sound from the center speaker and the subwoofer. However, when you select "VES TV," "VES A," ″VES B″ or "VIRTUAL SEMI MULTI DIMENSION," the player does not output the sound from the center speaker.
• When you select one of the VIRTUAL 3D SURROUND modes, set the surround setting of the connected units, such as the amplifier, to OFF.
• The sampling frequency is converted to 48 kHz when a VIRTUAL 3D SURROUND mode is selected.
• If the player is set up to output the signal from the DIGITAL OUT (OPTICAL or COAXIAL) connectors, the surround effect will not be heard when you play a CD.
• Set the front speakers to form an equilateral triangle with the listening position at the top. Otherwise, the effects may be difficult to hear even if you select "VES A," ″VES B″ or "VIRTUAL SEMI MULTI DIMENSION."
• When you connect 4 speakers, the surround effect will not be heard if you use the DIGITAL OUT (OPTICAL or COAXIAL) connectors.

When using headphones

Select VIRTUAL SURROUND HEADPHONES when you want to experience Virtual 3D Surround effects through your headphones.

VIRTUAL SURROUND HEADPHONES
Uses 3D sound imaging to place the listener in an acoustically sophisticated movie studio by giving greater definition to the sound. Adjust the volume using the PHONES LEVEL control to the right of the PHONES connector. You can also enjoy the surround effect through your receiver's headphones connector when your receiver is connected to this player.

💡 You can select "VIRTUAL SURROUND HEADPHONES" directly
Press VIRTUAL SURROUND HEADPHONES on the player.
To turn it off, press the button again.

Notes
• When you press VIRTUAL SURROUND HEADPHONES on the player, the VIRTUAL 3D SURROUND mode turns off and vice versa.
• If the player is set up to output the signal from DIGITAL OUT (OPTICAL or COAXIAL) and you are using your receiver's headphones, the surround effect will be heard only when you set "DOLBY DIGITAL" to "D-PCM" and "DTS" to "D-PCM" in "AUDIO SETUP."

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Checking the Play Information DVD

You can check information such as the bit rate or the disc layer that is being played.
While playing a disc, the approximate bit rate of the playback picture is always displayed as Mbps (Mega bit per second) and the audio as kbps (kilo bit per second).

Select "ADVANCED" after pressing DISPLAY.

```
1                           PLAY ▶
12(27)                      DVD
18(34)
C 01:32:55


                            BIT RATE
 □□□□□        BIT RATE               384 kbps
                            ▐▐▐▐▐▐▐▐     Mbps
                            0    5    10
ADVANCED
Select: ◀▲▼▶ ➡ ENTER
```
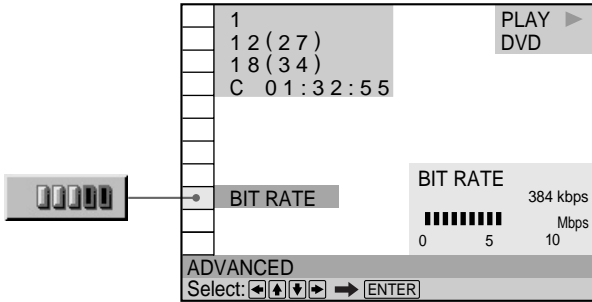
■ ADVANCED
The default setting is underlined.

When playing a DVD
• BIT RATE: displays the bit rate.
• LAYER: displays the layer and the pick-up point.
• OFF: turns off ADVANCED display.

Displays of each item

By pressing DISPLAY repeatedly, you can display either "BIT RATE" or "LAYER," whichever was selected in "ADVANCED."

BIT RATE
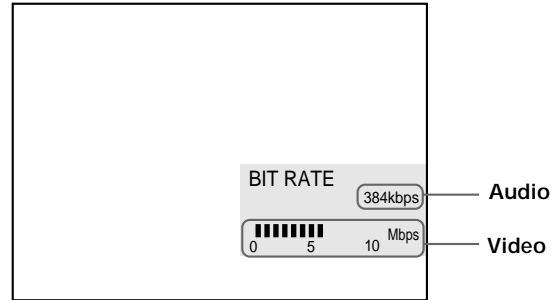
Bit rate refers to the amount of video/audio data per second in a disc. The higher the bit rate, the larger the amount of data. When the bit rate level is high, there is a large amount of data. However, this does not always mean that you can get higher quality pictures or sounds.

LAYER

Appears when the DVD has dual layers

Indicates the approximate point where the disc is playing. If it is a dual-layer DVD, the player indicates which layer is being read ("Layer 0" or "Layer 1").
For details on the layers, see page 79 (DVD).

Locking Discs (Custom Parental Control) 📶 **DVD** **VIDEO CD** **CD**

Using a registered password, you can set playback restrictions for the desired disc(s).
You can set the same Custom Parental Control password for up to 300 discs. When you set the three-hundred and first disc, the first disc is canceled.
The same password is used for both Parental Control (page 62) and Custom Parental Control.

Select "CUSTOM PARENTAL CONTROL" after pressing DISPLAY.

```
┌─┬─────────────────────────┐
│ │ 1                  PLAY ▶│
│ │ 1 2 ( 2 7 )        DVD   │
│ │ 1 8 ( 3 4 )              │
│ │ C  0 1 : 3 2 : 5 5       │
│ ├─────────────────────────┤
│ │                         │
│ │                         │
│ │                         │
│ │                         │
┌─────┐ OFF                 │
│ 🔒  ├─                     │
└─────┘                      │
   CUSTOM PARENTAL CONTROL   │
   Select: ◀▲▼▶ ➡ ENTER     │
```
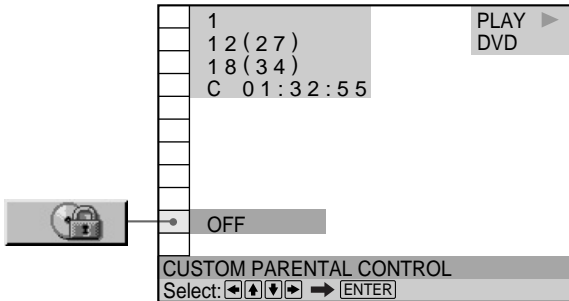
Setting the Custom Parental Control for a disc

1 **Insert and select the disc you want to lock.**
If a disc is playing, press ■ to stop playback.

2 **Select "CUSTOM PARENTAL CONTROL" using ↑/↓, then press ENTER.**

```
┌─┬─────────────────────────┐
│ │ 1                  STOP ■│
│ │ 1 2 ( 2 7 )        DVD   │
│ │ 1 8 ( 3 4 )              │
│ │ C  0 1 : 3 2 : 5 5       │
│ ├─────────────────────────┤
│ │                         │
│ │ ON →                    │
│ │ PASSWORD→               │
┌─────┐ OFF                 │
│ 🔒  ├─                     │
└─────┘                      │
   CUSTOM PARENTAL CONTROL   │
   Select: ◀▲▼▶ ➡ ENTER Cancel: RETURN │
```
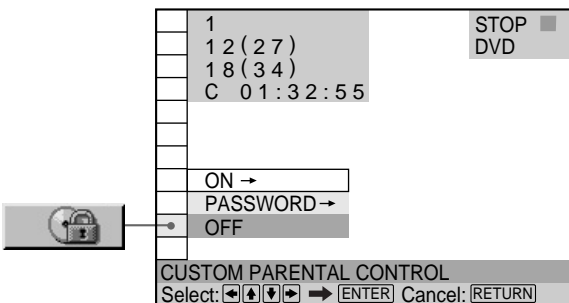
3 **Select "ON➡" using ↑/↓, then press ENTER.**

■ **If you have not entered a password**
The display for entering a password appears.
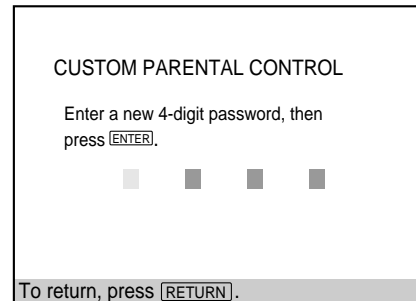
```
┌───────────────────────────────┐
│                               │
│  CUSTOM PARENTAL CONTROL      │
│                               │
│   Enter a new 4-digit password, then │
│   press ENTER.                │
│                               │
│    ▫    ▪    ▪    ▪            │
│                               │
│                               │
├───────────────────────────────┤
│ To return, press RETURN.      │
```

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

```
┌───────────────────────────────┐
│                               │
│  CUSTOM PARENTAL CONTROL      │
│                               │
│   Enter password, then press ENTER. │
│                               │
│    ▫    ▪    ▪    ▪            │
│                               │
│                               │
├───────────────────────────────┤
│ To return, press RETURN.      │
```
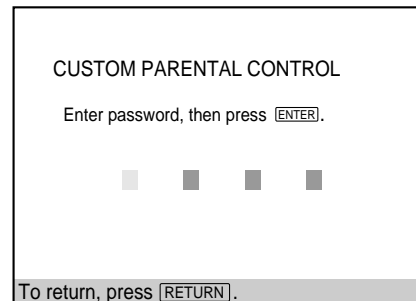
4 **Enter a 4-digit password using the number buttons, then press ENTER.**
The digits change to asterisks (✳), and the display for confirming the password appears.

```
┌───────────────────────────────┐
│                               │
│  CUSTOM PARENTAL CONTROL      │
│                               │
│   To confirm, enter password again, │
│   then press ENTER.           │
│                               │
│    ▫    ▪    ▪    ▪            │
│                               │
│                               │
├───────────────────────────────┤
│ To return, press RETURN.      │
```
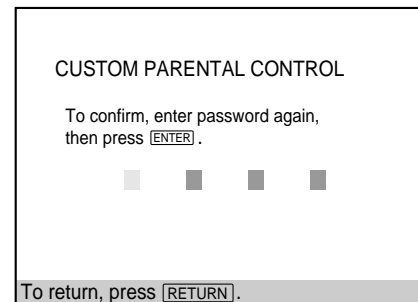
5 **Enter the same 4-digit password using the number buttons, then press ENTER.**
"Custom parental control is set." appears and then the screen returns to the Control Menu display.

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Locking Discs (Custom Parental Control)

To return to the normal screen
Press ⟲RETURN.

To turn off the Custom Parental Control function
1 Select the disc for which you want to turn off the Custom Parental Control function.
2 Select "CUSTOM PARENTAL CONTROL" using ↑/↓, then press ENTER.
3 Select "OFF➡" using ↑/↓, then press ENTER.
4 Enter your 4-digit password using the number buttons, then press ENTER.

To change the password
1 Select "CUSTOM PARENTAL CONTROL" using ↑/↓, then press ENTER.
2 Select "PASSWORD➡" using ↑/↓, then press ENTER.
3 Enter your 4-digit password using the number buttons, then press ENTER.
   The display for changing the password appears.
4 Enter a new 4-digit password using the number buttons, then press ENTER.
5 To confirm your password, re-enter it using the number buttons, then press ENTER.

Playing the disc for which the Custom Parental Control is set

1 Insert the disc.
The CUSTOM PARENTAL CONTROL display appears.
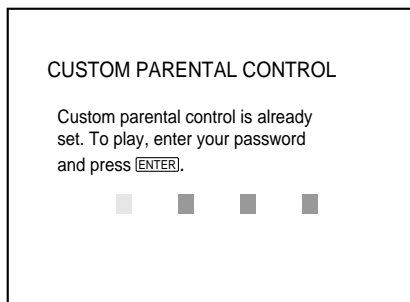
```
CUSTOM PARENTAL CONTROL

Custom parental control is already
set. To play, enter your password
and press ENTER .

  ■    ■    ■    ■
```

2 Enter your 4-digit password using the number buttons, then press ENTER.
The player starts playback.

💡 **If you forget your password**
Enter the 6-digit number "199703" whenever the CUSTOM PARENTAL CONTROL display asks you for your password, then press ENTER. The display will ask you to enter a new 4-digit password.

Note
Unless you enter the password, the player cannot play the disc for which the Custom Parental Control is set. When you do not know the password, press ⏏ and remove the disc.

Selecting the Disc Mode (1 Disc or All Discs)
DVD **VIDEO CD** **CD**

You can have the player play one disc or all of the discs in the player.
Before setting Program Play, Shuffle Play, or Repeat Play, you must select whether to set those play modes on one disc or all of the discs.

Select "1/ALL DISCS" after pressing DISPLAY.

```
                    1                    PLAY ►
                    1 2 ( 2 7 )          DVD
                    1 8 ( 3 4 )
      ( ⊙)))  ─┤    ALL DISCS
                    ALL DISCS
                    1 DISC



                    1/ALL DISCS
                    Select: ◄ ▲ ▼ ► ➡ ENTER  Cancel: RETURN
```
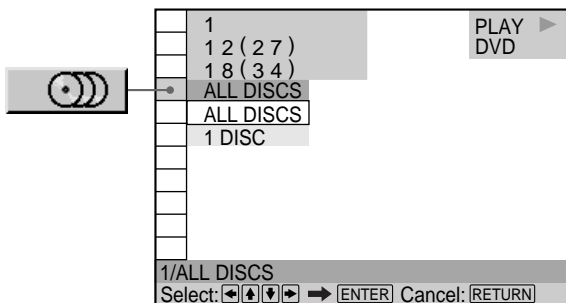
■ 1/ALL DISCS
• ALL DISCS: will play all of the discs in the player in consecutive order. Also allows you to set Program Play, Shuffle Play or Repeat Play for all of the loaded discs.
• 1 DISC: will play the selected disc to the end. Also allows you to set Program Play, Shuffle Play or Repeat Play for 1 disc only.

�’ You can select the mode directly
Press 1/ALL on the player or 1/ALL DISCS on the remote. Each time you press the button, 1 DISC or ALL DISCS mode is selected.

Creating Your Own Program (Program Play)
📱 **DVD** **VIDEO CD** **CD**

You can play the contents of the disc(s) in the order you want by arranging the order of the titles, chapters or tracks on the disc and create your own program. One program can be stored in the player and contain up to 99 titles, chapters and tracks. By selecting "1/ALL DISCS," you can create a program for one or all of the discs in the player.

Select "PROGRAM" after pressing DISPLAY. When you select "ON," the "PROGRAM" indicator lights up in green.

```
                    1                    PLAY ►
                    1 2 ( 2 7 )          DVD
                    1 8 ( 3 4 )

      🔋 🎞 ─┤     OFF
                    OFF
                    SET →
                    ON



                    PROGRAM
                    Select: ◄ ▲ ▼ ► ➡ ENTER  Cancel: RETURN
```
Indicator
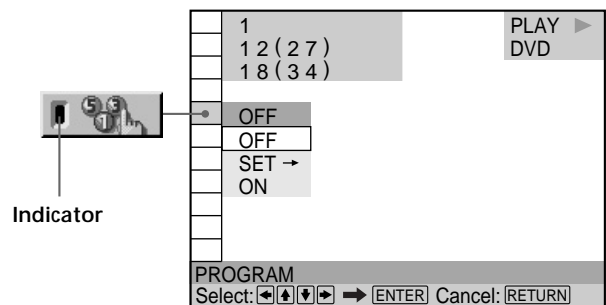
■ PROGRAM
The default setting is underlined.
• OFF: plays normally.
• SET➡: allows you to create your own program.
• ON: plays Program Play.

Creating the program

1 Select "SET➡" in "PROGRAM."
The programming display appears and "1" is highlighted.

```
        PROGRAM
        ⊙ – : – – –                    T

        ALL CLEAR              ALL
        1. – – – –
        2. – – – –
        3. – – – –
        4. – – – –
        5. – – – –
        6. – – – –
              ▼

        Set: ▲ ▼ ➡ ENTER
        Quit: PROGRAM  Start: PLAY
```
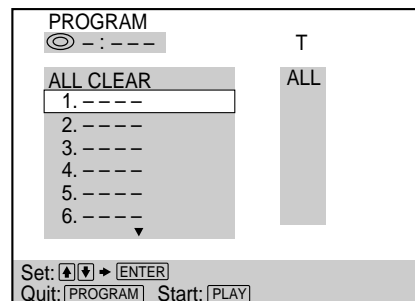
Creating Your Own Program (Program Play)

2 Press ENTER.

It is ready to set the first disc of a title or track for Program Play.

```
PROGRAM
 ◎ – : – – –                    T

ALL CLEAR                      ALL
 1. – – – –
 2. – – – –
 3. – – – –
 4. – – – –
 5. – – – –
 6. – – – –
          ▼
Number buttons ➛ ENTER  Return: RETURN
Quit: PROGRAM  Start: PLAY
```
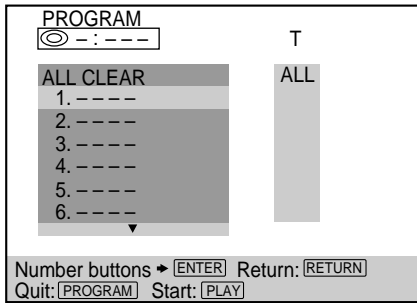
3 Select the disc you want to program using the number buttons or ↑/↓, then press ENTER.

Disc type*   Title   Chapter

```
PROGRAM
 ◎ 3 : DVD          T     C

ALL CLEAR          ALL    ALL
 1. – – – –        01     01
 2. – – – –        02     02
 3. – – – –        03     03
 4. – – – –        04     04
 5. – – – –        05     05
 6. – – – –               06
          ▼                ▼
Set: ↑↓ ➛ ENTER   Return: RETURN
Quit: PROGRAM  Start: PLAY
```
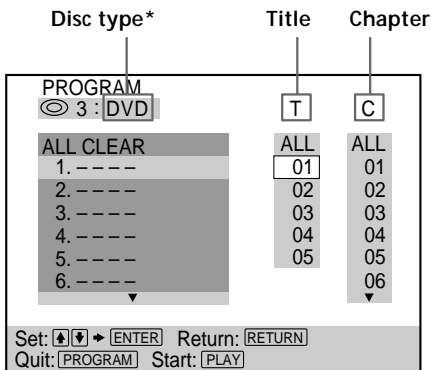
* "?" appears when the player has not loaded the disc information in the memory. If an empty tray is loaded, the disc type does not appear.

4 Select the title, chapter or track you want to program using ↑/↓, then press ENTER.

You can also use the number buttons and ENTER button to make a selection. In this case, the selected number is displayed on the screen.

■ **When playing a DVD**

For example, select title 1, chapter 1 in disc 3. When both titles and chapters are recorded on the disc, select the title, then the chapter.

```
PROGRAM
 ◎ 3 : DVD          T     C

ALL CLEAR          ALL    ALL
 1. – – – –        01     01
 2. – – – –        02     02
 3. – – – –        03     03
 4. – – – –        04     04
 5. – – – –        05     05
 6. – – – –               06
          ▼                ▼
Set: ↑↓ ➛ ENTER   Return: RETURN
Quit: PROGRAM  Start: PLAY
```

↓

```
PROGRAM
 ◎ – : – – –                    T

ALL CLEAR                      ALL
 1. 3DVD –T01–C01
 2. – – – –
 3. – – – –
 4. – – – –
 5. – – – –
 6. – – – –
          ▼
Set: ↑↓ ➛ ENTER
Quit: PROGRAM  Start: PLAY
```
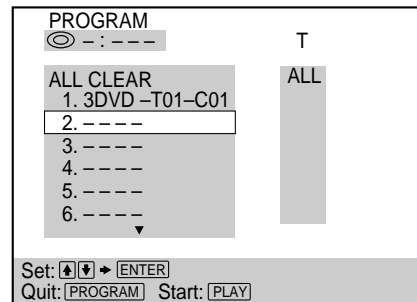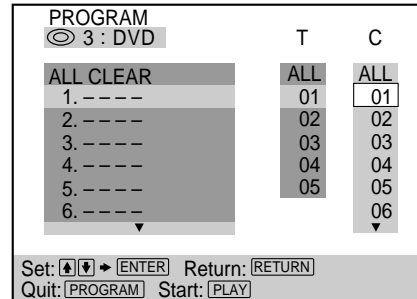
■ **When playing a VIDEO CD or CD**

For example, select track 1 in disc 2.

```
PROGRAM
 ◎ 2 : VCD          T

ALL CLEAR          ALL
 1. 3DVD –T01–C01  01
 2. – – – –        02
 3. – – – –        03
 4. – – – –        04
 5. – – – –        05
 6. – – – –        06
          ▼         ▼
Set: ↑↓ ➛ ENTER   Return: RETURN
Quit: PROGRAM  Start: PLAY
```
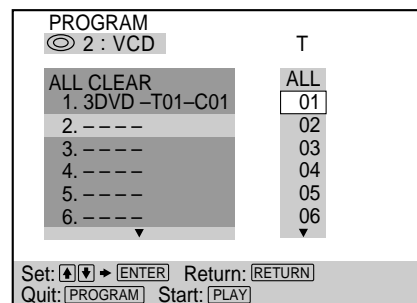
5 To program other discs, titles, chapters or tracks, repeat Steps 3 and 4.

The programmed discs, titles, chapters or tracks are displayed in the selected order.

6 Press ▷ to start Program Play.

To stop Program Play
Press CLEAR on the remote.

To cancel programming
Press PROGRAM on the remote.

To change the program
1 In Step 3, select the disc for which you want to change the program using ↑/↓.
2 Follow Step 4 for new title, chapter or track programming.

To cancel the programmed order
To cancel all the titles, chapters or tracks in the programmed order, select "ALL CLEAR".
To cancel the selected program, select the program using ↑/↓ then press CLEAR.

ˇΩ´ The program remains even after Program Play ends
When you press ▷, you can play the same program again.

ˇΩ´ You can do Repeat Play or Shuffle Play of the programmed titles, chapters or tracks
During Program Play, press REPEAT or SHUFFLE.
Or set "REPEAT" or "SHUFFLE" to "ON" in the Control Menu display.

ˇΩ´ You can select "PROGRAM" directly
Press PROGRAM on the remote.

ˇΩ´ For easier programming, load the disc information
Press LOAD when the player is in standby or stop mode so that the player reads and loads the disc information.

ˇΩ´ You can select discs, titles, chapters and tracks for the program by looking at the front panel display
You can program by looking at the front panel display instead of using the programming display on the TV screen.
When you select Track 3 in a VIDEO CD in disc tray 2 for Program 1, the front panel display will appear as follows:

[VIDEO CD] ▶   ALL DISCS
                PGM   P01.D .T

↑ Program number

[VIDEO CD] ▶   ALL DISCS
                PGM   P01.D2.T

↑ Disc number

[VIDEO CD] ▶   ALL DISCS
                PGM   P01.D2.T03

↑ Track number

[VIDEO CD] ▶   ALL DISCS
                PGM   P02.D .T
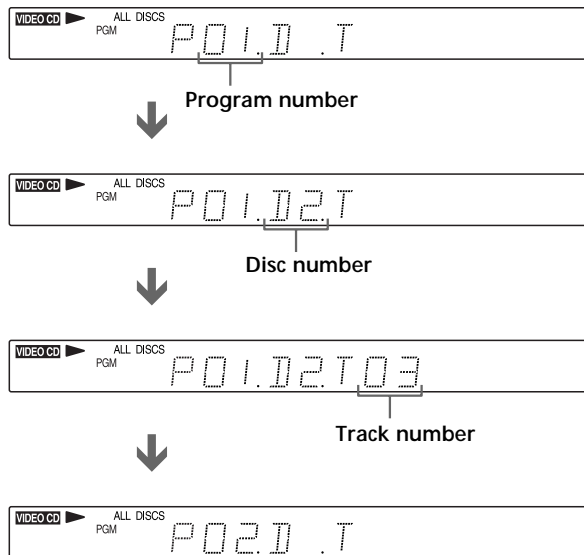
Notes
• The number of titles, chapters or tracks displayed are the same number of titles, chapters or tracks recorded on a disc.
• Program play is canceled when:
  – you open the disc tray
  – the player enters standby mode by pressing I/⏻ on the remote
  – you turn the power off by pressing ① on the player
• Depending on the DVD, you may not be able to perform Program Play.
• If you are using the PBC playback function, you must first stop the disc before you can set a program.

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Playing in Random Order (Shuffle Play) DVD VIDEO CD CD

You can have the player "shuffle" discs, titles, chapters or tracks and play them in a random order. Subsequent "shuffling" may produce a different playing order. By selecting "1/ALL DISCS," you can have the player shuffle one disc or all of the discs in the player.

Select "SHUFFLE" after pressing DISPLAY. When you select a shuffle mode other than "OFF," the "SHUFFLE" indicator lights up in green.

Indicator
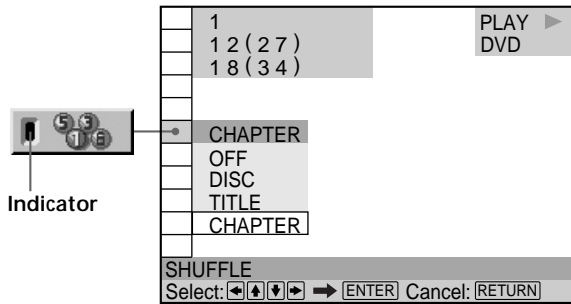
■ SHUFFLE
Selects the Shuffle Play setting.
The default settings are underlined.

When playing a DVD and when Program Play is set to OFF
- OFF: does not play the disc(s) in random order.
- DISC*: has the player "shuffle" discs and play them in a random order.
- TITLE: has the player "shuffle" titles and play them in a random order.
- CHAPTER: has the player "shuffle" chapters and play them in a random order.

When playing a VIDEO CD or CD (when Program Play is set to OFF)
- OFF: does not play the disc(s) in random order.
- DISC*: has the player "shuffle" discs and play them in a random order.
- TRACK: has the player "shuffle" tracks and play them in a random order.

When playing a VIDEO CD, CD or DVD (when Program Play is set to ON)
- OFF: does not play the disc(s) in random order.
- ON: has the player "shuffle" titles or tracks selected in Program Play and play them in a random order.

* Appears only when you select "ALL DISCS" in "1/ALL DISCS."

To stop Shuffle Play
Press CLEAR on the remote.

ᯤ You can set Shuffle Play while the disc is stopped
After selecting the "SHUFFLE" option, press ▷.
The player starts Shuffle Play.

ᯤ You can select "SHUFFLE" directly
Press SHUFFLE on the player or the remote. Each time you press the button, the item changes.

Notes
- Shuffle Play is canceled when:
  – you open the disc tray
  – the player enters standby mode by pressing ▌/⏻ on the remote
  – you turn the power off by pressing ⏽ on the player
- Depending on the DVD, you may not be able to perform Shuffle Play.
- Up to 96 chapters in a disc can be played in random order when "CHAPTER" is selected.
- You cannot perform Shuffle Play during PBC playback of VIDEO CDs (page 21).

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Playing Repeatedly (Repeat Play) `DVD` `VIDEO CD` `CD`

You can play all discs, or all of the titles or tracks on a disc, or a single title, chapter or track repeatedly.
In Shuffle or Program Play mode, the player repeats the titles or tracks in the shuffled or programmed order. By selecting "1/ALL DISCS," you can have the player repeat one disc or all of the discs in the player.
You cannot perform Repeat Play during PBC playback of VIDEO CDs (page 21).

Select "REPEAT" after pressing DISPLAY. When you select a repeat mode other than "OFF," the "REPEAT" indicator lights up in green.

```
┌─────────────────────────────────────┐
│  1                       PLAY ▶      │
│  1 2 ( 2 7 )             DVD         │
│  1 8 ( 3 4 )                         │
│                                      │
│                                      │
│                                      │
│                                      │
│        DISC                          │
│  ⌐┐    OFF                           │
│  └╚    DISC                          │
│        TITLE                         │
│        CHAPTER                       │
│  REPEAT                              │
│  Select: ◄▲▼► ➜ ENTER Cancel: RETURN │
└─────────────────────────────────────┘
```

Indicator

■ REPEAT
Selects the Repeat Play setting.
The default settings are underlined.

When playing a DVD and when Program Play and Shuffle Play are set to OFF
• <u>OFF</u>: does not play repeatedly.
• DISC: repeats all titles on the selected disc when you select "1 DISC" in "1/ALL DISCS," and repeats all titles in all discs when you select "ALL DISCS."
• TITLE: repeats the current title on a disc.
• CHAPTER: repeats the current chapter.

When playing a VIDEO CD/CD and when Program Play and Shuffle Play are set to OFF
• <u>OFF</u>: does not play repeatedly.
• DISC: repeats all tracks on the selected disc when you select "1 DISC" in "1/ALL DISCS," and repeats all tracks in all discs when you select "ALL DISCS."
• TRACK: repeats the current track.

When Program Play or Shuffle Play is on
• <u>OFF</u>: does not play repeatedly.
• ON: repeats Program Play or Shuffle Play.

To stop Repeat Play
Press CLEAR on the remote.

`ˇ☿` **You can set Repeat Play while the disc is stopped**
After selecting the "REPEAT" option, press ▷.
The player starts Repeat Play.

`ˇ☿` **You can select "REPEAT" directly**
Press REPEAT on the player or the remote. Each time you press the button, the item changes.
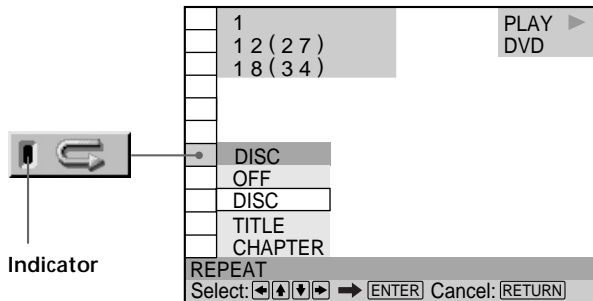
Notes
• Repeat play is canceled when:
  – you open the disc tray
  – the player enters standby mode by pressing I/⏻ on the remote
  – you turn the power off by pressing ① on the player
• Depending on the DVD, you may not be able to perform Repeat Play.

49

Repeating a Specific Portion (A–B Repeat) DVD VIDEO CD CD

You can play a specific portion of a title, chapter or track repeatedly. This function is useful when you want to do such things as memorize lyrics.
During PBC Playback of VIDEO CDs (page 21), this function is available only while playing moving pictures.

Select "A-B REPEAT" after pressing DISPLAY. During A-B Repeat Play, the "A-B REPEAT" indicator lights up in green.

```
┌──────────────┬──────────┐
│ 1            │ PLAY  ▶  │
│ 12(27)       │ DVD      │
│ 18(34)       │          │
├──────────────┤          │
│              │          │
│              │          │
│  ┌────┐      │          │
│  │OFF │      │          │
│  │SET→│      │          │
│  │OFF │      │          │
├──────────────┴──────────┤
│ A–B REPEAT              │
│ Select: ◄▲▼► ➡ ENTER Cancel: RETURN │
└─────────────────────────┘
```

Indicator

■ A-B REPEAT
The default setting is underlined.
• SET➡: sets the A and B points.
• OFF: does not play a specific portion of a title/chapter/ track repeatedly.

Setting a portion for A-B repeat

1 Select "A-B REPEAT" and press ENTER.

```
┌──────────────┬──────────┐
│ 1            │ PLAY  ▶  │
│ 12(27)       │ DVD      │
│ 18(34)       │          │
├──────────────┤          │
│              │          │
│              │          │
│              │          │
│  OFF         │          │
│  SET →       │          │
│  OFF         │          │
├──────────────┴──────────┤
│ A–B REPEAT              │
│ Select: ◄▲▼► ➡ ENTER Cancel: RETURN │
└─────────────────────────┘
```

2 Select "SET➡" and press ENTER.
The A-B REPEAT setting display appears.

```
┌─────────────────────────┐
│ A-B REPEAT              │
│                         │
│  Set point A with ENTER.│
│                         │
│                         │
│                         │
│                         │
│ Return: RETURN          │
└─────────────────────────┘
```
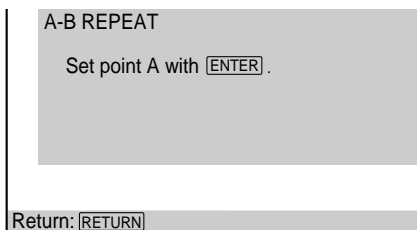
3 During playback, when you find the starting point (point A) of the portion to be played repeatedly, press ENTER.
The starting point (point A) is set.

```
┌─────────────────────────┐
│ A-B REPEAT              │
│                         │
│  Set point B with ENTER.│
│                         │
│                         │
│            CHAPTER  TIME│
│            A: 18 – 01 : 32 : 55│
│                         │
│ Cancel: CLEAR           │
└─────────────────────────┘
```
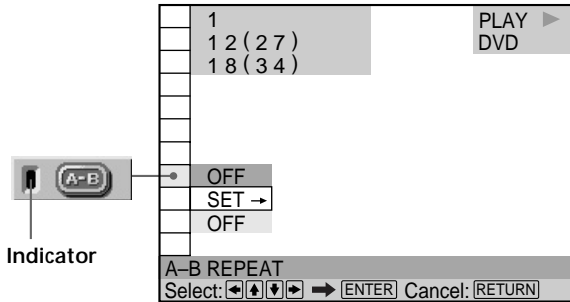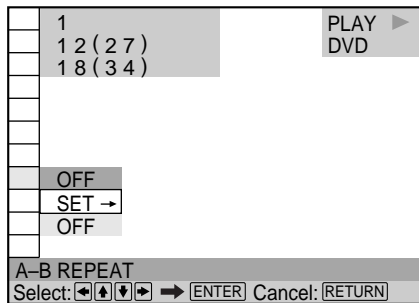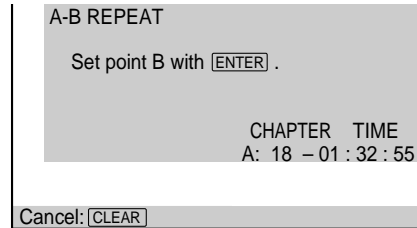
4 When you reach the ending point (point B), press ENTER again.
The set points are displayed and the player starts repeating this specific portion.
"A-B" appears on the front panel display during A-B repeat play.

```
┌──────────────┬──────────┐
│ 1            │ PLAY  ▶  │
│ 12(27)       │ DVD      │
│ 18(34)       │          │
├──────────────┤          │
│              │          │
│              │          │
│  ON          │          │
│              │ CHAPTER  TIME│
│              │ A: 18 – 01 : 32 : 55│
│              │ B: 18 – 01 : 34 : 30│
├──────────────┴──────────┤
│ A–B REPEAT              │
│ Select: ◄▲▼► ➡ ENTER    │
└─────────────────────────┘
```
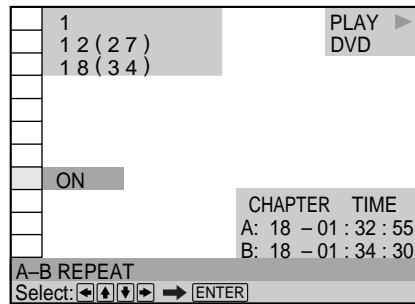
To stop A-B Repeat Play
Press CLEAR on the remote.

Notes
• You can set A-B Repeat for only one specific portion.
• A–B Repeat is canceled when:
  – you open the disc tray
  – the player enters standby mode by pressing I/⏻ on the remote
  – you turn the power off by pressing ① on the player
• When you set A-B Repeat, the settings for Shuffle Play, Repeat Play, and Program Play are canceled.
• You may not be able to set A-B Repeat for some DVD or VIDEO CD scenes.
• You cannot set the start point (point A) on one disc and ending point (point B) on other disc.

Adjusting the Playback Picture (Video Equalizer) DVD VIDEO CD

You can adjust the video output of the DVD or VIDEO CD from the player, not from the TV, to obtain the picture quality you want. Choose the video mode that suits the program you are watching.
When you select "MEMORY➡," you can make further adjustments to each element of the picture (color, brightness, etc.).

Select "VIDEO EQUALIZER" after pressing DISPLAY. When you select a setting other than "STANDARD," the "VIDEO EQUALIZER" indicator lights up in green.

Indicator
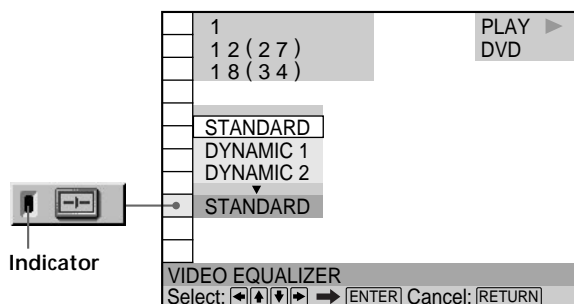
■ VIDEO EQUALIZER
Selects the video control setting.
The default setting is underlined.
- <u>STANDARD</u>: displays a standard picture.
- DYNAMIC 1: produces a bold dynamic picture by increasing the picture contrast and the color intensity.
- DYNAMIC 2: produces a more dynamic picture than DYNAMIC 1 by further increasing the picture contrast and the color intensity.
- CINEMA 1: enhances details in dark areas by increasing the black level.
- CINEMA 2: white colors become brighter and black colors become richer, and the color contrast is increased.
- MEMORY➡: adjusts the picture in greater detail.

💡 When you watch a movie
CINEMA 1 or CINEMA 2 is recommended.

To adjust the picture items in MEMORY

You can adjust each element of the picture individually.
- PICTURE: changes the contrast
- BRIGHTNESS: changes the overall brightness
- COLOR: makes the colors deeper or lighter
- HUE: changes the color balance

1 Select "VIDEO EQUALIZER" and press ENTER.
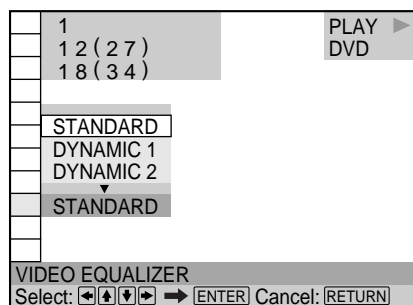
2 Select "MEMORY➡" and press ENTER.
The video equalizer display appears.
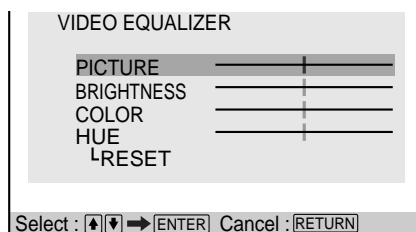
3 Select the picture item you want to adjust using ↑/↓, then press ENTER.
The adjustment bar of the selected item appears.
To cancel adjusting the picture, press ⟲RETURN.

Using Various Functions with the Control Menu
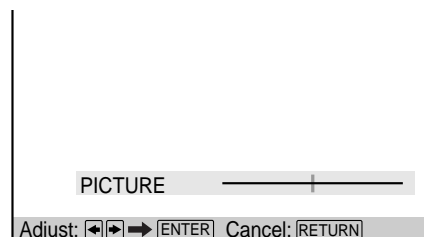
Adjusting the Playback Picture (Video Equalizer)

4 Adjust the selected picture item using ←/→, then press ENTER.
The setting is stored in memory.

```
VIDEO EQUALIZER

PICTURE          ━━━━━━━ ▼  ┃
BRIGHTNESS       ━━━━━━━━━━┃━
COLOR            ━━━━━━━━━━┃━
HUE              ━━━━━━━━━━┃━
 └RESET

Select : ▲▼ → ENTER  Cancel : RETURN
```
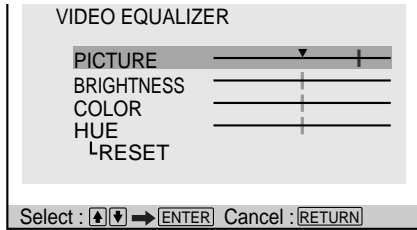
5 To adjust other items, repeat Steps 3 and 4.

To exit the video equalizer display
Press ⌒RETURN.

💡 **To reset the picture items**
Select "RESET" in "MEMORY→."

Note
Only one set of "MEMORY→" adjustments can be stored. When you adjust the items again, the new setting erases the previous setting.

Enhancing the Playback Picture (Digital Video Enhancer) 〈DVD〉 〈VIDEO CD〉

The Digital Video Enhancer function makes the picture appear clear and crisp by enhancing the outlines of images on your TV screen.

Select "DIGITAL VIDEO ENHANCER" after pressing DISPLAY. When you select a level other than "OFF," the "DIGITAL VIDEO ENHANCER" indicator lights up in green.

```
┌──┐                          PLAY ▶
│ 1│                          DVD
│12(27)│
│18(34)│

│OFF│
│ 1 │
│ 2 │
│ 3 │
📱 ▢  ─── │OFF│

DIGITAL VIDEO ENHANCER
Select: ◄▲▼► → ENTER  Cancel: RETURN
```

Indicator
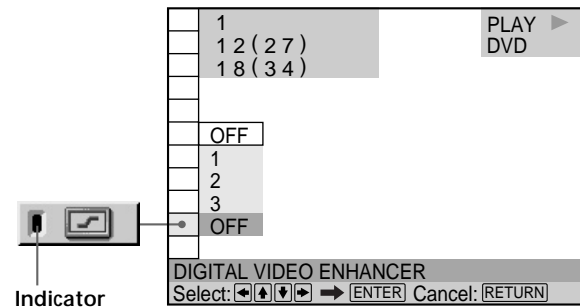
■ **DIGITAL VIDEO ENHANCER**
Selects the level of enhancement. As the value increases, the outlines of images on your TV screen will become crisper.
Select the level that best suits the image on your TV screen.
The default setting is underlined.
• OFF: turns off the Digital Video Enhancer function.
• 1: enhances the outline.
• 2: enhances the outline more than 1.
• 3: enhances the outline more than 2.

💡 **You can select "DIGITAL VIDEO ENHANCER" directly**
Press DVE on the player or the remote. Each time you press the button, the level changes.

Note
Depending on the DVD/Video CD disc or the scene being played, noise found in the disc may become more apparent. If this happens, reduce the Digital Video Enhancer level.

Using the Quick Reference Screen (VIEWER) DVD VIDEO CD

You can divide the screen into 9 sections (quick reference screen) and enjoy the following functions.
- STROBE PLAYBACK
- TITLE VIEWER (DVD only)
- CHAPTER VIEWER (DVD only)
- TRACK VIEWER (VIDEO CD only)
- ANGLE VIEWER (DVD only)
- BOOKMARK

Select "VIEWER" after pressing DISPLAY.

```
┌─┐ 1                          PLAY ►
├─┤ 1 2 ( 2 7 )                DVD
├─┤ 1 8 ( 3 4 )
├─┤
├─┤
├─┤ STROBE PLAYBACK
├─┤ TITLE VIEWER
├─┤ CHAPTER VIEWER
├─┤ ANGLE VIEWER
├─┤ BOOKMARK
├─┤ STROBE PLAYBACK
└─┘ VIEWER
    Select:◄▲▼► → ENTER Cancel:RETURN
```

Indicator*

* The indicator lights up when a bookmark is in memory.

Dividing a track into 9 sections (STROBE PLAYBACK) DVD VIDEO CD
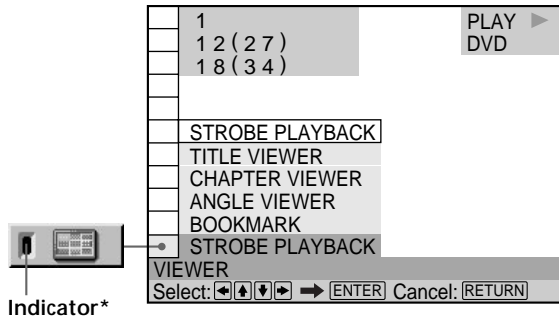
You can display 9 consecutive sections of the disc on the screen. If you are playing a disc, you can change the speed of the images on the screen by turning the click shuttle. When you press ▐▐, 9 still images around the pause position are displayed.

Select "STROBE PLAYBACK" in "VIEWER" and press ENTER. Nine consecutive scenes appear on the screen.

To cancel watching the strobe play
Press ♂RETURN.

Notes
- Depending on the disc, there are some scenes you may not be able to watch with the strobe play function.
- The sound is muted when using this function.

Scanning the title and chapter DVD VIDEO CD

You can check the first picture of titles, chapters or tracks of the disc, and start playback from the chosen title, chapter or track.

When playing a DVD, select "TITLE VIEWER" or "CHAPTER VIEWER" in "VIEWER" and press ENTER.

When playing a VIDEO CD, select "TRACK VIEWER" in "VIEWER" and press ENTER.

The screen will divide into 9 sections and show the first picture of each title, chapter or track.

To start playback from the selected picture
Select the picture using ←/↑/↓/→, then press ENTER. Playback starts from the selected picture.

🔆 When there are over 9 titles, chapters or tracks
▼ appears at the right bottom of the screen. Select the right bottom scene (the position 9) and use ↓ to display the next titles, tracks or chapters. To return to the previous scene, select the left top scene (the position 1) and press ↑.

```
┌───────┬───────┬───────┬──┐
│       │       │       │  │
│       │       │       │  │
│ 1     │ 2     │ 3     │  │
├───────┼───────┼───────┤  │
│       │       │       │  │
│ 4     │ 5     │ 6     │  │
├───────┼───────┼───────┤  │
│       │       │       │  │
│ 7     │ 8     │ 9     │▼ │
├───────┴───────┴───────┴──┤
│ ◄▲▼► → ENTER  Cancel: RETURN │
└──────────────────────────┘
```

🔆 You can check the number on the front panel display
The number of the title, chapter or track you selected is displayed on the front panel display.

To cancel scanning the title, chapter or track
Press ♂RETURN.

Notes
- Depending on the disc, you may not be able to scan the title, chapter or track.
- The sound is muted when using this function.

53

Displaying different angles simultaneously DVD

With DVDs on which various angles (multi-angles) for a scene are recorded, you can display all of the angles recorded on the disc on the same screen, and start playback in continuous mode at the chosen angle. The angles are displayed on a screen divided in 9 sections.

Select "ANGLE VIEWER" in "VIEWER." The available angles appear on the screen.

To select one angle
Select the angle using ←/↑/↓/→, then press ENTER. The selected angle is displayed.

To cancel displaying multi-angles
Press ⚊RETURN.

ϙ̈ You can check the angle number on the front panel display
The number of the angle you selected is displayed on the front panel display.

Notes
• If only one angle is recorded on the disc, then you will not be able to use this function.
• Depending on the DVD, you may not be able to change the angles even if multi-angles are recorded on the DVD.
• When a scene for which various angles (multi-angles) are not recorded appears when using this function, the player returns to normal playback.
• The sound is muted when using this function.

Setting and selecting favorite scene (Bookmark) 📖 DVD VIDEO CD

You can have the player store specific portions of the disc in memory and play them immediately whenever you want (Bookmark). Up to 9 bookmarks per disc for up to 300 discs can be stored in memory.

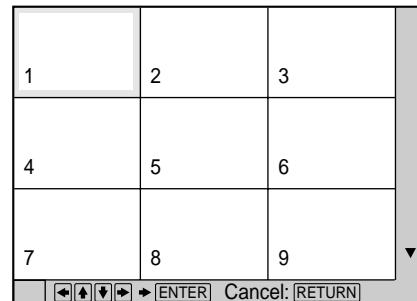Select "BOOKMARK" in "VIEWER." The bookmarks appear on the screen.

To start playback from the selected picture
Select the picture using ←/↑/↓/→, then press ENTER. Playback starts from the selected picture.

To cancel scanning the bookmark pictures
Press ⚊RETURN.

To reset the bookmark
Select the bookmark you want to reset using ←/↑/↓/ →, then press CLEAR.

To reset all of the bookmarks for the player
Select "BOOKMARK RESET➡" under "CUSTOM SETUP" in the setup display. For details on resetting all of the bookmarks for the player, see page 61.

Setting a bookmark
During playback, when you find a scene to be bookmarked, press BOOKMARK on the remote.
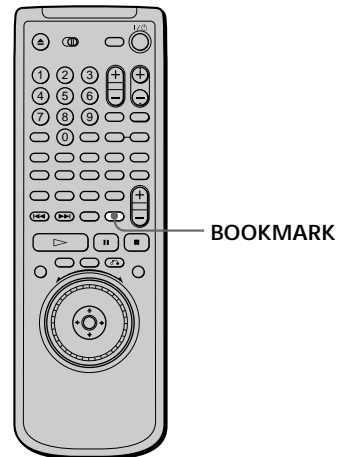
BOOKMARK

ϙ̈ You can check the bookmark number on the front panel display
The number of the bookmark you selected is displayed on the front panel display.

Notes
• The player can store in memory the bookmarks of up to 300
  discs. When you have the player store over 300 discs in
  memory, each new bookmark erases the oldest bookmark.
• Depending on the DVD, you may not be able to set the
  bookmark.
• Do not turn off the player by pressing ⏻. Doing so may cancel
  the settings. When you turn off the player, press ■ first to stop
  playback and then press I/⏻ on the remote. After the power
  indicator lights up in red and the player enters standby mode,
  press ⏻ on the player.
• The sound is muted when using this function.

Settings and Adjustments

This chapter describes how to set and adjust the player using the on-screen setup menu. Most settings and adjustments are required to be set when you first use the player.
This chapter also describes how to set the remote for controlling the TV or the AV receiver (amplifier) or the CD changer.

Using the Setup Display
DVD   VIDEO CD   CD

Using the setup display, you can do the initial setup, adjust the picture and sound and set the various outputs. You can also set a language for the subtitles and the setup display, limit playback by children, and so on.
For details on each setup display item, see pages 59 to 69.

Note
You can display the setup display only when the player is in stop mode.
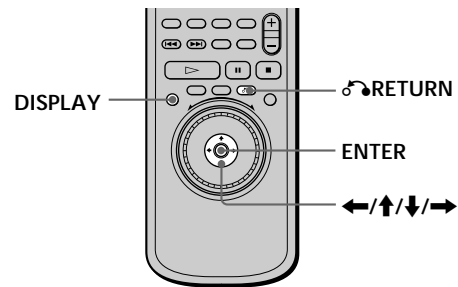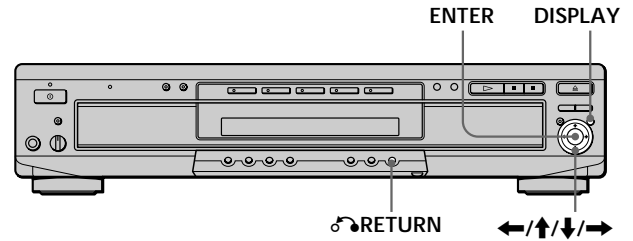
ENTER   DISPLAY

♪RETURN   ←/↑/↓/→

DISPLAY   ♪RETURN

ENTER

←/↑/↓/→

1 Press DISPLAY and select "SETUP" using ↑/↓.

1
(1)
:   :

STOP ■
DVD

SETUP
Select: ◄▲▼► ➡ ENTER

Selected item

2 Press ENTER.
The setup display appears.

LANGUAGE SETUP
OSD: ENGLISH
DVD MENU: ENGLISH
AUDIO: ORIGINAL
SUBTITLE: AUDIO FOLLOW

To set, press ◄▲▼►, then ENTER .
To quit, press DISPLAY .
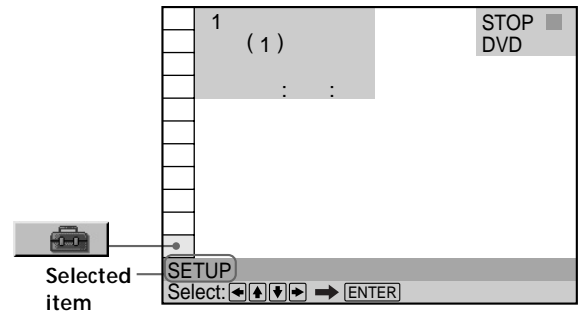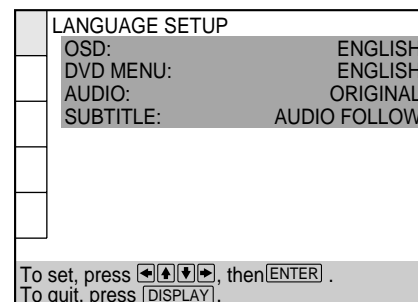
3 Select the main item you want using ↑/↓.

```
        ┌──────────────────────────────────────┐
        │ LANGUAGE SETUP                       │
        │ OSD:                    ENGLISH      │
        │ DVD MENU:               ENGLISH      │
Main item│ AUDIO:                  ORIGINAL     │
        │ SUBTITLE:           AUDIO FOLLOW     │
        │                                      │
        │                                      │
        │                                      │
        │                                      │
        │ To set, press ◄▲▼►, then ENTER .    │
        │ To quit, press DISPLAY .            │
        └──────────────────────────────────────┘
```
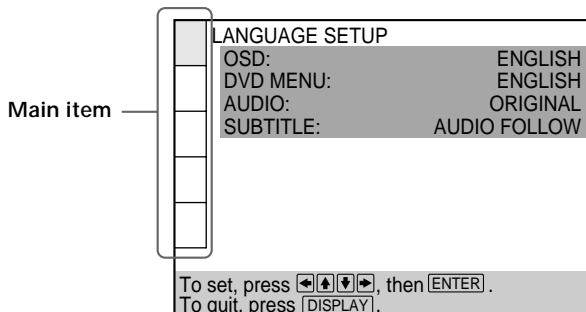
4 Press ENTER.
The selected main item is highlighted.

```
┌──────────────────────────────────────┐
│ SCREEN SETUP                         │
│ TV TYPE:               4:3 LETTER BOX│
│ SCREEN SAVER:                     ON │
│ BACKGROUND:         JACKET PICTURE   │
│ STARTUP SCREEN:          STANDARD    │
│                                      │
│                                      │
│                                      │
│ To set, press ◄▲▼►, then ENTER .    │
│ To quit, press DISPLAY .            │
└──────────────────────────────────────┘
```

5 Select the item you want using ↑/↓.

```
┌──────────────────────────────────────┐
│ SCREEN SETUP                         │
│ TV TYPE:               4:3 LETTER BOX│
│ SCREEN SAVER:                     ON │
│ BACKGROUND:         JACKET PICTURE   │
│ STARTUP SCREEN:          STANDARD    │
│                                      │
│                                      │
│                                      │
│ To set, press ◄▲▼►, then ENTER .    │
│ To quit, press DISPLAY .            │
└──────────────────────────────────────┘
```

6 Press ENTER.

```
┌──────────────────────────────────────┐
│ SCREEN SETUP                         │
│ TV TYPE:               4:3 LETTER BOX│
│ SCREEN SAVER:          4:3 LETTER BOX│
│ BACKGROUND:            4:3 PAN SCAN   │
│ STARTUP SCREEN:     16:9/4:3 WIDE MODE│
│                                      │
│                                      │
│                                      │
│ To set, press ◄▲▼►, then ENTER .    │
│ To quit, press DISPLAY .            │
└──────────────────────────────────────┘
```

7 Select the setting you want using ←/↑/↓/→.

```
┌──────────────────────────────────────┐
│ SCREEN SETUP                         │
│ TV TYPE:               4:3 LETTER BOX│
│ SCREEN SAVER:          4:3 LETTER BOX│
│ BACKGROUND:            4:3 PAN SCAN   │
│ STARTUP SCREEN:     16:9/4:3 WIDE MODE│
│                                      │
│                                      │
│                                      │
│ To set, press ◄▲▼►, then ENTER .    │
│ To quit, press DISPLAY .            │
└──────────────────────────────────────┘
```

8 Press ENTER.

```
┌──────────────────────────────────────┐
│ SCREEN SETUP                         │
│ TV TYPE:          16:9/4:3 WIDE MODE │
│ SCREEN SAVER:                     ON │
│ BACKGROUND:         JACKET PICTURE   │
│ STARTUP SCREEN:          STANDARD    │
│                                      │
│                                      │
│                                      │
│ To set, press ◄▲▼►, then ENTER .    │
│ To quit, press DISPLAY .            │
└──────────────────────────────────────┘
```
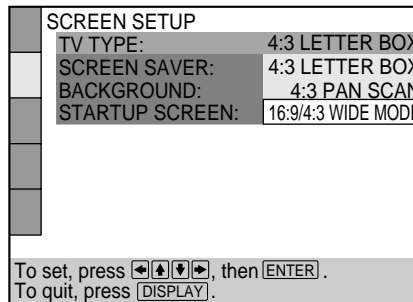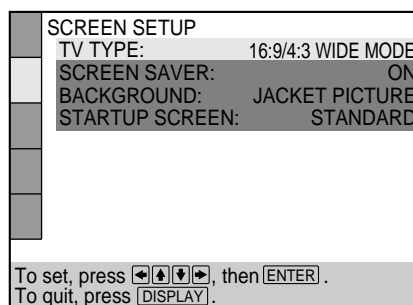
9 Press DISPLAY.
The setup display disappears.

10 Press DISPLAY repeatedly to turn off the on-screen menu.

To return to the previous screen
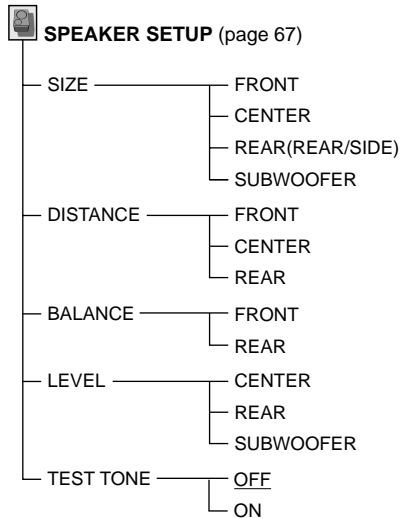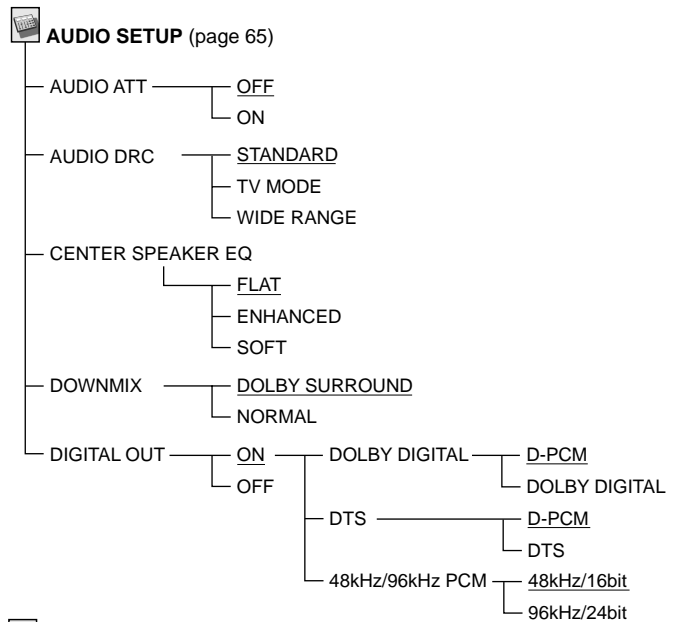Press ♂RETURN.

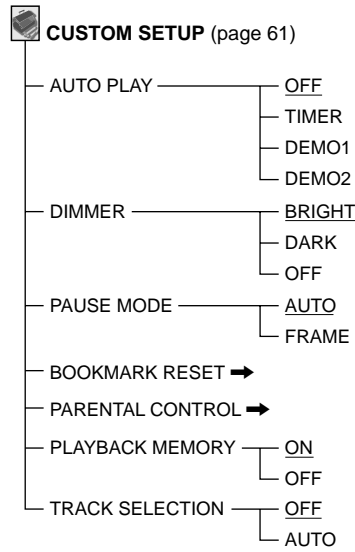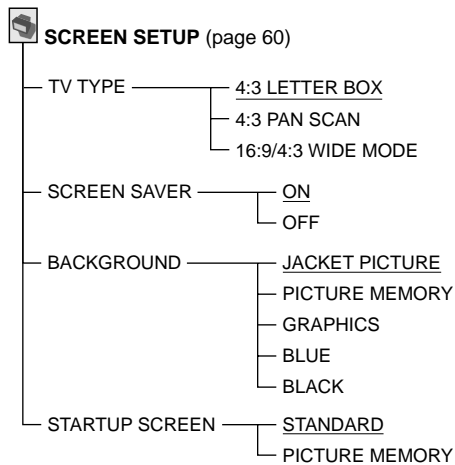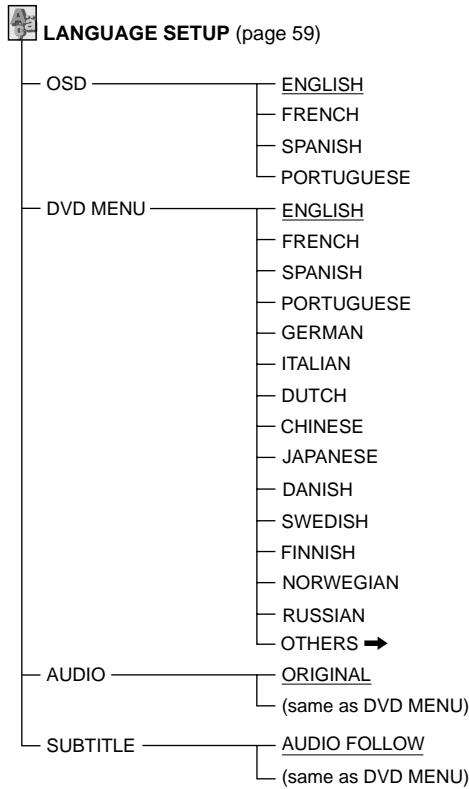**To quit while making a selection**
Press DISPLAY.

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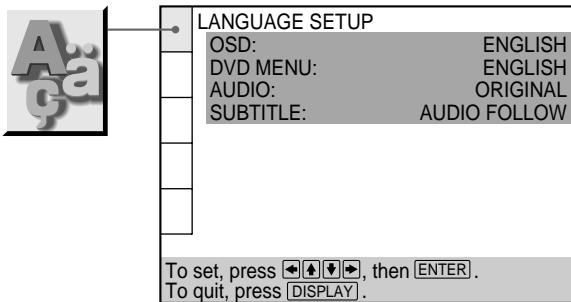
Setup Display Item List

The default settings are underlined.

LANGUAGE SETUP (page 59)

- OSD
  - <u>ENGLISH</u>
  - FRENCH
  - SPANISH
  - PORTUGUESE
- DVD MENU
  - <u>ENGLISH</u>
  - FRENCH
  - SPANISH
  - PORTUGUESE
  - GERMAN
  - ITALIAN
  - DUTCH
  - CHINESE
  - JAPANESE
  - DANISH
  - SWEDISH
  - FINNISH
  - NORWEGIAN
  - RUSSIAN
  - OTHERS ➡
- AUDIO
  - <u>ORIGINAL</u>
  - (same as DVD MENU)
- SUBTITLE
  - <u>AUDIO FOLLOW</u>
  - (same as DVD MENU)

SCREEN SETUP (page 60)

- TV TYPE
  - <u>4:3 LETTER BOX</u>
  - 4:3 PAN SCAN
  - 16:9/4:3 WIDE MODE
- SCREEN SAVER
  - <u>ON</u>
  - OFF
- BACKGROUND
  - <u>JACKET PICTURE</u>
  - PICTURE MEMORY
  - GRAPHICS
  - BLUE
  - BLACK
- STARTUP SCREEN
  - <u>STANDARD</u>
  - PICTURE MEMORY

CUSTOM SETUP (page 61)

- AUTO PLAY
  - <u>OFF</u>
  - TIMER
  - DEMO1
  - DEMO2
- DIMMER
  - <u>BRIGHT</u>
  - DARK
  - OFF
- PAUSE MODE
  - <u>AUTO</u>
  - FRAME
- BOOKMARK RESET ➡
- PARENTAL CONTROL ➡
- PLAYBACK MEMORY
  - <u>ON</u>
  - OFF
- TRACK SELECTION
  - <u>OFF</u>
  - AUTO

AUDIO SETUP (page 65)

- AUDIO ATT
  - <u>OFF</u>
  - ON
- AUDIO DRC
  - <u>STANDARD</u>
  - TV MODE
  - WIDE RANGE
- CENTER SPEAKER EQ
  - <u>FLAT</u>
  - ENHANCED
  - SOFT
- DOWNMIX
  - <u>DOLBY SURROUND</u>
  - NORMAL
- DIGITAL OUT
  - <u>ON</u>
    - DOLBY DIGITAL
      - <u>D-PCM</u>
      - DOLBY DIGITAL
    - DTS
      - <u>D-PCM</u>
      - DTS
    - 48kHz/96kHz PCM
      - <u>48kHz/16bit</u>
      - 96kHz/24bit
  - OFF

SPEAKER SETUP (page 67)

- SIZE
  - FRONT
  - CENTER
  - REAR(REAR/SIDE)
  - SUBWOOFER
- DISTANCE
  - FRONT
  - CENTER
  - REAR
- BALANCE
  - FRONT
  - REAR
- LEVEL
  - CENTER
  - REAR
  - SUBWOOFER
- TEST TONE
  - <u>OFF</u>
  - ON

Settings and Adjustments

Setting the Display Language or Sound Track (LANGUAGE SETUP) DVD VIDEO CD CD

"LANGUAGE SETUP" allows you to set various languages for the on-screen display or sound track. The default settings are underlined.

Select "LANGUAGE SETUP" in the setup display.

```
LANGUAGE SETUP
OSD:                    ENGLISH
DVD MENU:               ENGLISH
AUDIO:                  ORIGINAL
SUBTITLE:          AUDIO FOLLOW




To set, press ← ↑ ↓ →, then ENTER .
To quit, press DISPLAY .
```

Notes
- When you select a language that is not recorded on the DVD, one of the recorded languages is automatically selected for the "DVD MENU," "AUDIO" and "SUBTITLE" settings.
- Depending on the DVD, the player may not start playing with the selected language even when you select a language in "DVD MENU," "AUDIO" or "SUBTITLE."

■ OSD (On-Screen Display)
Selects the language for the on-screen display.
- ENGLISH
- FRENCH
- SPANISH
- PORTUGUESE

■ DVD MENU
Selects the language for the DVD menu.
- ENGLISH
- FRENCH
- SPANISH
- PORTUGUESE
- GERMAN
- ITALIAN
- DUTCH
- CHINESE
- JAPANESE
- DANISH
- SWEDISH
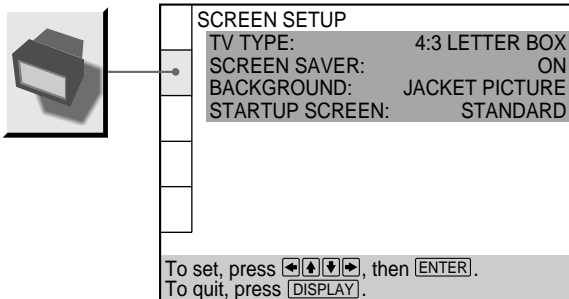- FINNISH
- NORWEGIAN
- RUSSIAN
- OTHERS➡

  When you select "OTHERS➡," select and enter the language code from the list using the number buttons (page 81). After you have made a selection, the language code (4 digits) is displayed.

■ AUDIO
Selects the language for the sound track.
- ORIGINAL: the language given priority in the disc
- ENGLISH
- FRENCH
- SPANISH
- PORTUGUESE
- GERMAN
- ITALIAN
- DUTCH
- CHINESE
- JAPANESE
- DANISH
- SWEDISH
- FINNISH
- NORWEGIAN
- RUSSIAN
- OTHERS➡

  When you select "OTHERS➡," select and enter the language code from the list using the number buttons (page 81). After you have made a selection, the language code (4 digits) is displayed.

■ SUBTITLE
Selects the language for the subtitles.
- AUDIO FOLLOW*
- ENGLISH
- FRENCH
- SPANISH
- PORTUGUESE
- GERMAN
- ITALIAN
- DUTCH
- CHINESE
- JAPANESE
- DANISH
- SWEDISH
- FINNISH
- NORWEGIAN
- RUSSIAN
- OTHERS➡

  When you select "OTHERS➡," select and enter the language code from the list using the number buttons (page 81). After you have made a selection, the language code (4 digits) is displayed.

* When you select "AUDIO FOLLOW," the language for the subtitles changes according to the language you selected for the sound track.

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Settings for the Display (SCREEN SETUP) DVD VIDEO CD CD

"SCREEN SETUP" allows you to set the display according to the playback conditions.
The default settings are underlined.

Select "SCREEN SETUP" in the setup display.

```
SCREEN SETUP
TV TYPE:              4:3 LETTER BOX
SCREEN SAVER:                    ON
BACKGROUND:         JACKET PICTURE
STARTUP SCREEN:          STANDARD




To set, press ←↑↓→, then ENTER.
To quit, press DISPLAY.
```

■ TV TYPE
Selects the aspect ratio of the TV to be connected.
• 4:3 LETTER BOX: select this when you connect a normal TV to the player. Displays a wide picture with bands on the upper and lower portions of the screen.
• 4:3 PAN SCAN: select this when you connect a normal TV to the player. Displays the wide picture on the whole screen automatically and cuts off the portions that do not fit.
• 16:9/4:3 WIDE MODE: select this when you connect a wide-screen TV to the player or when you connect a TV with the WIDE MODE function to the player (displays a wide picture with bands displayed on the upper and lower portions of the screen).
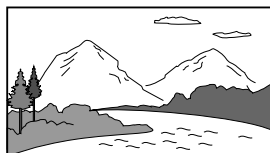
4:3 LETTER BOX

4:3 PAN SCAN
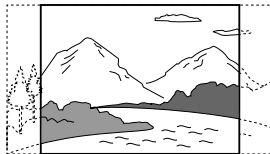
16:9

4:3 WIDE MODE

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

■ 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, or when you play back a CD for more than 15 minutes. The screen saver will help prevent your display device from becoming damaged.
• ON: turns on the screen saver.
• OFF: turns off the screen saver.

■ BACKGROUND
Selects the background color or picture on the TV screen in stop mode or while playing a CD.
• JACKET PICTURE: The jacket picture appears in the background, but only when the jacket picture is already recorded on the disc.
• PICTURE MEMORY: Your favorite picture appears in the background. For an explanation of how to store your favorite scene recorded on the disc for the background picture, see the following section "Storing a picture in memory."
• GRAPHICS: A preset picture stored in the player appears in the background.
• BLUE: The background color is blue.
• BLACK: The background color is black.

Note
If a disc which does not contain the jacket picture is played while "BACKGROUND" is set to "JACKET PICTURE," the picture stored in the player will automatically appear in the background.

■ STARTUP SCREEN
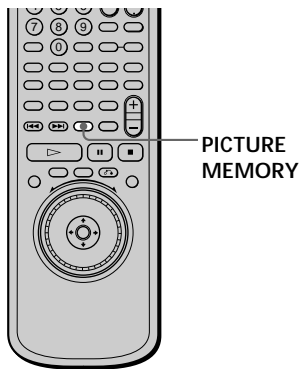Selects the startup screen. The startup screen image you selected appears when you turn on the player.
• STANDARD: The standard startup screen in the player's memory appears.
• PICTURE MEMORY: Your favorite picture appears in the startup screen. For an explanation of how to store your favorite scene recorded on the disc for the startup screen, see the following section "Storing a picture in memory."
If you select PICTURE MEMORY before setting a picture in memory, the standard startup screen will appear.

Settings and Adjustments

Storing a picture in memory

During playback, when you find the scene to be stored in memory, press PICTURE MEMORY on the remote.
The picture is stored in memory.

PICTURE
MEMORY

Notes
• The player can store only one scene in memory. The stored picture appears in both the background and the startup screen.
• Depending on the DVD, some scenes cannot be stored in memory when using the remote.
• When the picture is stored in memory by pressing PICTURE MEMORY, the picture stored before is erased.
• If you operate this player while the picture is being stored in memory, the player will fail to store the picture.

Custom Settings (CUSTOM SETUP)
DVD **VIDEO CD** **CD**

"CUSTOM SETUP" allows you to set the playback conditions.
The default settings are underlined.

Select "CUSTOM SETUP" in the setup display.

```
CUSTOM SETUP
AUTO PLAY:            OFF
DIMMER:              BRIGHT
PAUSE MODE:           AUTO
BOOKMARK RESET         →
PARENTAL CONTROL       →
PLAYBACK MEMORY:       ON
TRACK SELECTION:      OFF


To set, press ◀▲▼▶, then ENTER .
To quit, press DISPLAY .
```
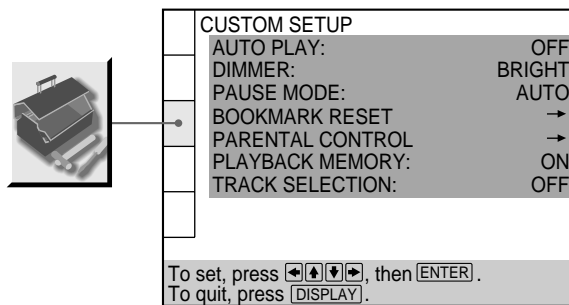
■ AUTO PLAY
Selects the Auto Play setting when you connect the AC power cord to the AC outlet.
• OFF: does not use "TIMER," "DEMO1" or "DEMO2" to start playback.
• TIMER: starts playing when the player is turned on, or at any time you want when connected to a timer (not supplied). Set the timer when the player is in standby mode (the power indicator lights up in red).
• DEMO1: starts playing the first demonstration automatically.
• DEMO2: starts playing the second demonstration 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.

■ PAUSE MODE (DVD only)
Selects the picture in pause mode.
• AUTO: A picture, including subjects that move dynamically, is output with no jitter. Normally select this position.
• FRAME: A picture including subjects that do not move dynamically is output with high resolution.

■ BOOKMARK RESET➜
Select "BOOKMARK RESET." The BOOKMARK reset display appears. And then press ENTER to reset all bookmarks.

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■ **PARENTAL CONTROL**➜

Sets a password and playback limitation level for DVDs with playback limitation for children.
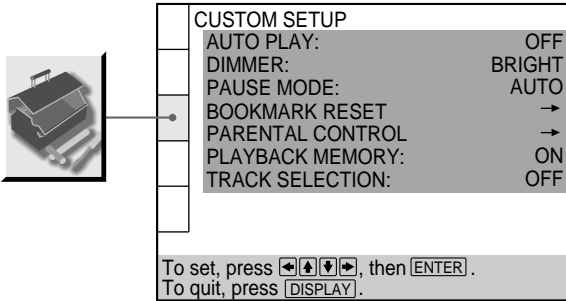
The same password is used for both Parental Control and Custom Parental Control (page 43) .

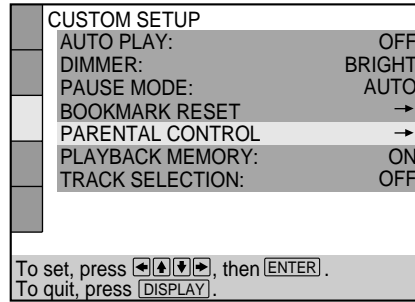For details, see "Limiting Playback by Children (Parental Control) ."

Limiting Playback by Children (Parental Control) DVD

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

Select "CUSTOM SETUP" in the setup display.

```
CUSTOM SETUP
AUTO PLAY:              OFF
DIMMER:                 BRIGHT
PAUSE MODE:             AUTO
BOOKMARK RESET          →
PARENTAL CONTROL        →
PLAYBACK MEMORY:        ON
TRACK SELECTION:        OFF


To set, press ◄▲▼►, then ENTER.
To quit, press DISPLAY.
```

1 Select "PARENTAL CONTROL" using ↑/↓, then press ENTER.

```
CUSTOM SETUP
AUTO PLAY:              OFF
DIMMER:                 BRIGHT
PAUSE MODE:             AUTO
BOOKMARK RESET          →
PARENTAL CONTROL        →
PLAYBACK MEMORY:        ON
TRACK SELECTION:        OFF


To set, press ◄▲▼►, then ENTER.
To quit, press DISPLAY.
```

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

```
CUSTOM SETUP

PARENTAL CONTROL

  Enter a new 4-digit password, then
  press ENTER .

    ▢    ▪    ▪    ▪


To return, press RETURN.
To cancel, press DISPLAY.
```

■ **When you have already registered a password**
  The display for confirming the password appears. Skip Step 2.

```
CUSTOM SETUP

PARENTAL CONTROL

  Enter password, then press ENTER.

    ▢    ▪    ▪    ▪



To return, press RETURN.
To cancel, press DISPLAY.
```
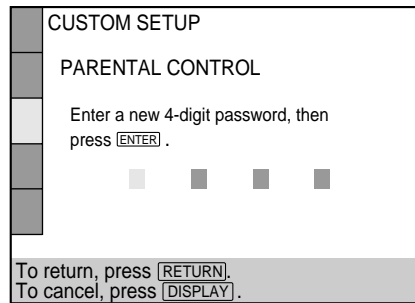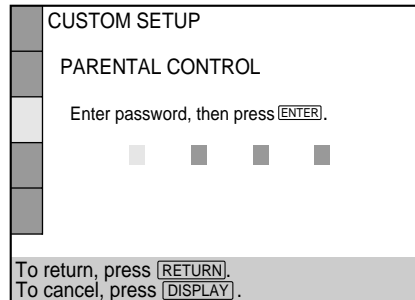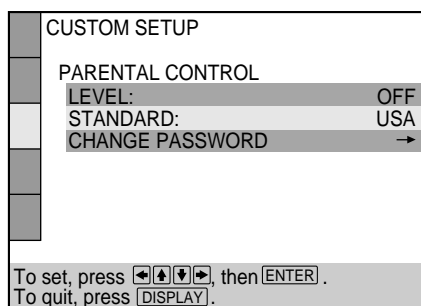
2 Enter a password in 4 digits using the number buttons, then press ENTER.
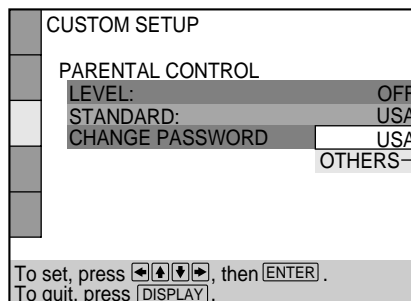The digits change to asterisks (✶), and the display for confirming the password appears.

```
┌─────────────────────────────────────────┐
│  CUSTOM SETUP                            │
│                                          │
│  PARENTAL CONTROL                        │
│                                          │
│    To confirm,enter password again,      │
│    then press ENTER .                    │
│          ▢    ▪    ▪    ▪                │
│                                          │
│                                          │
│                                          │
│  To return, press RETURN .               │
│  To cancel, press DISPLAY .              │
└─────────────────────────────────────────┘
```
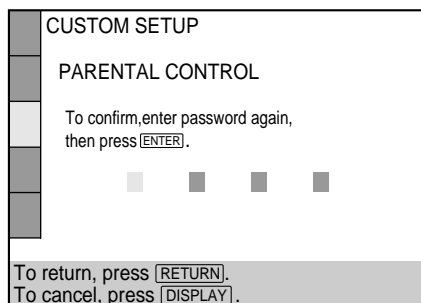
3 To confirm your password, enter it again using the number buttons, then press ENTER.
The display for setting the playback limitation level and changing the password appears.

```
┌─────────────────────────────────────────┐
│  CUSTOM SETUP                            │
│                                          │
│  PARENTAL CONTROL                        │
│  LEVEL:                       OFF        │
│  STANDARD:                    USA        │
│  CHANGE PASSWORD               →         │
│                                          │
│                                          │
│                                          │
│  To set, press ◀▲▼▶, then ENTER .        │
│  To quit, press DISPLAY .                │
└─────────────────────────────────────────┘
```
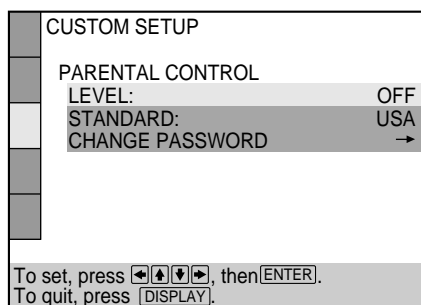
4 Select "STANDARD" using ↑/↓, then press ➡.

```
┌─────────────────────────────────────────┐
│  CUSTOM SETUP                            │
│                                          │
│  PARENTAL CONTROL                        │
│  LEVEL:                       OFF        │
│  STANDARD:                    USA        │
│  CHANGE PASSWORD               →         │
│                                          │
│                                          │
│                                          │
│  To set, press ◀▲▼▶, then ENTER .        │
│  To quit, press DISPLAY .                │
└─────────────────────────────────────────┘
```

5 Select a geographic area as the playback limitation level standard using ↑/↓, then press ➡.
When you select "OTHERS➡," select and enter the standard code in the table on the next page using the number buttons.

```
┌─────────────────────────────────────────┐
│  CUSTOM SETUP                            │
│                                          │
│  PARENTAL CONTROL                        │
│  LEVEL:                       OFF        │
│  STANDARD:                    USA        │
│  CHANGE PASSWORD              USA        │
│                               OTHERS→    │
│                                          │
│                                          │
│  To set, press ◀▲▼▶, then ENTER .        │
│  To quit, press DISPLAY .                │
└─────────────────────────────────────────┘
```

6 Select "LEVEL" using ↑/↓, then press ➡.

```
┌─────────────────────────────────────────┐
│  CUSTOM SETUP                            │
│                                          │
│  PARENTAL CONTROL                        │
│  LEVEL:                       OFF        │
│  STANDARD:                    OFF        │
│  CHANGE PASSWORD                         │
│                        8:                │
│                        7:    NC17        │
│                        6:      R         │
│                        5:      ▼         │
│  To set, press ◀▲▼▶, then ENTER .        │
│  To quit, press DISPLAY .                │
└─────────────────────────────────────────┘
```
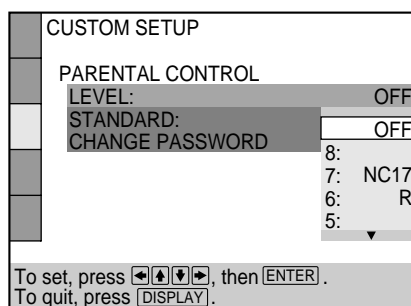
7 Select the level you want using ↑/↓, then press ENTER.

```
┌─────────────────────────────────────────┐
│  CUSTOM SETUP                            │
│                                          │
│  PARENTAL CONTROL                        │
│  LEVEL:                  4:   PG13        │
│  STANDARD:                    USA        │
│  CHANGE PASSWORD               →         │
│                                          │
│                                          │
│                                          │
│  To set, press ◀▲▼▶, then ENTER .        │
│  To quit, press DISPLAY .                │
└─────────────────────────────────────────┘
```
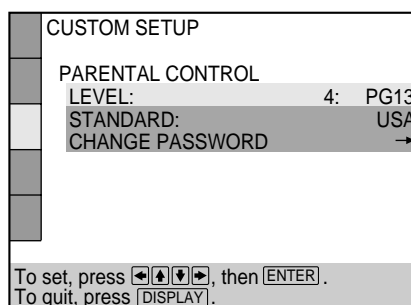
The lower the value, the more strict the limitation.

To return to the normal screen
Press DISPLAY.

To turn off the Parental Control function and play the DVD after entering your password
Set "LEVEL" to "OFF" in Step 7, then press ▷.

Custom Settings (CUSTOM SETUP)

To change the password

1 After Step 3, select "CHANGE PASSWORD" using
↑/↓, then press → or ENTER.
The display for changing the password appears.
2 Follow Steps 2 and 3 to enter a new password.

Playing a disc which is blocked by the playback limitation level

1 Insert the disc and press ▷.
The PARENTAL CONTROL display appears.
2 Enter your 4-digit password using the number buttons, then press ENTER.
The player starts playback.
When you stop playing the DVD, the level returns to the original level.

◊ If you forget your password

Enter the 6-digit number "199703" whenever the PARENTAL CONTROL display asks you for your password, then press ENTER. The display will ask you to enter a new 4-digit password.

Notes

• When you play DVDs which do not have the Parental Control function, playback cannot be limited on this player.
• If 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 your password, then change the level.
When you stop playing the DVD, the level returns to the original level.
• The same password is used for both Parental Control and Custom Parental Control (page 43).

Standard	Code number
Argentina	2044
Australia	2047
Austria	2046
Belgium	2057
Brazil	2070
Canada	2079
Chile	2090
China	2092
Denmark	2115
Finland	2165
France	2174
Germany	2109
Hong Kong	2219
India	2248
Indonesia	2238
Italy	2254
Japan	2276
Korea	2304
Malaysia	2363
Mexico	2362
Netherlands	2376
New Zealand	2390
Norway	2379
Pakistan	2427
Philippines	2424
Portugal	2436
Russia	2489
Singapore	2501
Spain	2149
Sweden	2499
Switzerland	2086
Taiwan	2543
Thailand	2528
United Kingdom	2184

■ PLAYBACK MEMORY

The player can store the SUBTITLE, VIDEO EQUALIZER, and other settings of each disc for up to 300 discs (Playback Memory).

Set the Playback Memory function on or off.

• <u>ON</u> : stores the settings in memory when you eject the disc.
• OFF : does not store the settings in memory.

The following settings are stored in memory by the Playback Memory function.

  – AUDIO (page 35)*
  – SUBTITLE (page 37)*
  – ANGLE (page 38)*
  – VIRTUAL 3D SURROUND (page 39)
  – VIDEO EQUALIZER (page 51)
  – DIGITAL VIDEO ENHANCER (page 52)
  * DVD only

Notes

• The player can store the settings of up to 300 discs. When you store the setting of disc number 301, the first disc setting is canceled.
• Depending on the DVD, the information stored in the disc takes priority over the Playback Memory settings and the function does not work.
• Do not turn off the player by pressing ①. Doing so may cancel the settings. When you turn off the player, press ■ first to stop playback and then press I/① on the remote. After the power indicator lights up in red and the player enters standby mode, press ① on the player.

■ TRACK SELECTION

Gives the sound track which contains the highest number of channels priority when you play a DVD on which multiple audio formats (PCM, DTS or Dolby Digital format) are recorded.

• <u>OFF</u> : No priority given.
• AUTO : Priority given.

Notes

• When you set this item to "AUTO," the language may change depending on the "AUDIO" settings in "LANGUAGE SETUP." The "TRACK SELECTION" setting has higher priority than the "AUDIO" settings in "LANGUAGE SETUP" (page 59).
• If you set "DTS" in "AUDIO SETUP" to "D-PCM", the DTS sound track is not played even if you set this item to "AUTO" and the highest-numbered audio channel is recorded in DTS format.
• If PCM, DTS and Dolby Digital sound tracks have the same number of channels, the player selects PCM, DTS and Dolby Digital sound tracks in this order.
• Depending on the DVD, the audio channel with priority may be predetermined. In this case, you cannot give priority to the DTS or Dolby Digital format by selecting "AUTO."

Settings for the Sound (AUDIO SETUP)

"AUDIO SETUP" allows you to set the sound according to the playback conditions.
The default settings are underlined.

Select "AUDIO SETUP" in the setup display.

```
AUDIO SETUP
  AUDIO ATT:                        OFF
  AUDIO DRC:                   STANDARD
  CENTER SPEAKER EQ:               FLAT
  DOWNMIX:          DOLBY SURROUND
  DIGITAL OUT:                       ON
    DOLBY DIGITAL:               D-PCM
    DTS:                         D-PCM
    48kHz/96kHz PCM:      48kHz/16bit

To set, press ←↑↓→, then ENTER .
To quit, press DISPLAY .
```
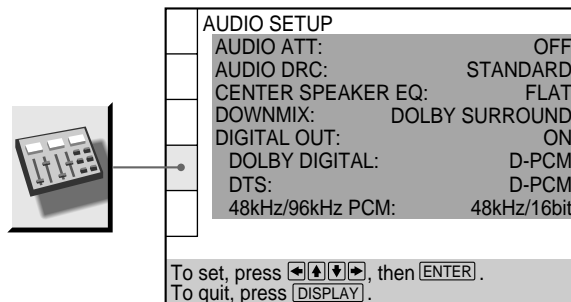
■ AUDIO ATT (attenuation)

If the playback sound is distorted, set this item to "ON."
The player reduces the audio output level.
Selects the setting of the output from the AUDIO OUT (1, 2) connectors according to the audio equipment to be connected.

• <u>OFF</u>: turns off the audio attenuation. Normally select this position.
• ON: reduces the audio output level so that no sound distortion occurs. Select this when the playback sound from the built-in TV speakers is distorted.

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

■ AUDIO DRC (Dynamic Range Control) (DVD only)

Makes the sound clear when the volume is turned down when playing a DVD. This function works only when you play a DVD which has the AUDIO DRC function. This affects the output from the DIGITAL OUT connectors only when "DOLBY DIGITAL" is set to "D-PCM" and "DTS" to "D-PCM" in "DIGITAL OUT."

• <u>STANDARD</u>: Normally select this position.
• TV MODE: makes the low sounds clear even if you turn the volume down. It is especially recommended when you listen to the sound using the speakers of the TV.
• WIDE RANGE: It gives you the feeling of being at a live performance. This function only works when you are playing a Dolby Digital disc and is more effective when you connect 6 speakers using the 5.1 channel connectors. When you use high quality speakers, it is even more effective.

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

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■ **CENTER SPEAKER EQ (equalizer)**

Makes the spoken track clear by changing the frequency response when speech is difficult to hear. A center speaker must be connected to the CENTER connector of 5.1CH OUTPUT for this function to work.

- FLAT: outputs the spoken track as it was recorded.
- ENHANCED: enhances the spoken track only.
- SOFT: makes the sound softer by rounding out the sound frequency above 8 kHz. Select this when the spoken track sounds shrill.

■ **DOWNMIX**

Switches the mixing down methods when you play a DVD on which rear signal components such as LS, RS, or S are recorded in Dolby Digital or DTS format. For details on the rear signal components, see "Displaying the audio information of the disc" (page 36).

This affects the output from the DIGITAL OUT connectors only when "DOLBY DIGITAL" is set to "D-PCM" and "DTS" to "D-PCM" in "DIGITAL OUT."

- DOLBY SURROUND: when the player is connected to an audio component that conforms to Dolby Surround (Pro Logic). The output signals which reproduce the Dolby Surround (Pro Logic) effect are mixed down to 2 channels.
- NORMAL: when the player is connected to an audio component that does not conform to Dolby Surround (Pro Logic). The signals without the Dolby Surround (Pro Logic) effect are output.

■ **DIGITAL OUT**

Selects output signals via the DIGITAL OUT OPTICAL and COAXIAL connectors.

- ON: Normally select this position. When you select "ON," set "DOLBY DIGITAL," "DTS" and "48kHz/96kHz PCM." For details on setting these items, see "Setting the Digital Output Signal."
- OFF: when the player does not output the sound signals via the DIGITAL OUT OPTICAL and COAXIAL connectors, the influence of the digital circuit upon the analog circuit is at a minimum.

Note

When you select "OFF," you cannot set "DOLBY DIGITAL," "DTS" and "48kHz/96kHz PCM."

Setting the Digital Output Signal

Switches the methods of outputting audio signals when you, connect 1. a digital component such as a receiver (amplifier) having a digital connector, 2. an audio component having a built-in decoder (Dolby Digital or DTS), 3. a DAT or MD via the DIGITAL OUT OPTICAL or COAXIAL connector using an optical or coaxial digital connecting cord. For connection details, see page 11. You cannot adjust "DOLBY DIGITAL," "DTS" and "48kHz/96kHz PCM" if you set "DIGITAL OUT" to "OFF."

```
AUDIO SETUP
AUDIO ATT:                        OFF
AUDIO DRC:                   STANDARD
CENTER SPEAKER EQ:               FLAT
DOWNMIX:           DOLBY SURROUND
DIGITAL OUT:                       ON
  DOLBY DIGITAL:              D-PCM
  DTS:                        D-PCM
  48kHz/96kHz PCM:       48kHz/16bit


To set, press ◄▲▼►, then ENTER .
To quit, press DISPLAY .
```

■ **DOLBY DIGITAL**

Selects the Dolby Digital signals to be output via the DIGITAL OUT OPTICAL and COAXIAL connectors.

- D-PCM (Downmix PCM): when the player is connected to an audio component lacking a built-in Dolby Digital decoder. If you play Dolby Digital sound tracks, the output audio signals are mixed down to 2 channels. You can select whether the signals conform to Dolby Surround (Pro Logic) or not by making adjustments to the "DOWNMIX" item in "AUDIO SETUP."
- DOLBY DIGITAL: when the player is connected to an audio component with a built-in Dolby Digital decoder. If the player is connected to an audio component lacking a built-in Dolby Digital decoder, do not set this. Otherwise, when you play the Dolby Digital sound track, a loud noise (or no sound) will come out from the speakers, affecting your ears or causing the speakers to be damaged.

■ DTS

Selects the DTS signals to be output via the DIGITAL OUT OPTICAL and COAXIAL connectors.

• D-PCM: when the player is connected to an audio component lacking a built-in DTS decoder. If you play DTS sound tracks, the player outputs stereo signals via the DIGITAL OUT OPTICAL and COAXIAL connectors.
• DTS: when the player is connected to an audio component having a built-in DTS decoder.
  If the player is connected to an audio component lacking a built-in DTS decoder, do not set this. Otherwise, when you play the DTS sound track, a loud noise (or no sound) will come out from the speakers, affecting your ears or causing the speakers to be damaged.

■ 48kHz/96kHz PCM (DVD only)

Selects the sampling frequency of the audio signal to be output via the DIGITAL OUT OPTICAL and COAXIAL connectors.

• 48kHz/16bit: The audio signals of DVDs are always converted to 48 kHz/16 bit.
• 96kHz/24bit: All types of signals including 96 kHz/24 bit are output in their original format. However, if the signal is encrypted for copyright protection purposes, the signal is only output as 48 kHz/16 bit.

Notes
• If you select "96kHz/24bit" when a receiver (amplifier) which cannot accept 96 kHz is connected to the player, no sound or a loud noise will come out from the speakers.
• Even if you set "48kHz/96kHz PCM" in "AUDIO SETUP" to "96kHz/24bit," the sampling frequency is converted to 48 kHz/16 bit when a VIRTUAL 3D SURROUND mode is selected.
• The analog audio signals from the AUDIO OUT connectors are not affected by this setting and keep their original sampling frequency level.

Settings for the Speakers (SPEAKER SETUP)

To obtain the best possible surround sound when you use the 5.1CH OUTPUT connectors, use the SPEAKER SETUP display to first specify the size of the speakers you have connected and their distance from your listening position. Then set the balance and level. Use the test tone to adjust the volume of the speakers to the same level.
For speaker hookup instructions, see page 12.
The default settings are underlined.

Select "SPEAKER SETUP" in the setup display.


```
SPEAKER SETUP
  SIZE:
  DISTANCE:
  BALANCE:
  LEVEL:
  TEST TONE:        OFF
    FRONT:                      LARGE
    CENTER:                     LARGE
    REAR:                 LARGE(REAR)
    SUBWOOFER:                     YES

To set, press ←↑↓→, then ENTER .
To quit, press DISPLAY .
```
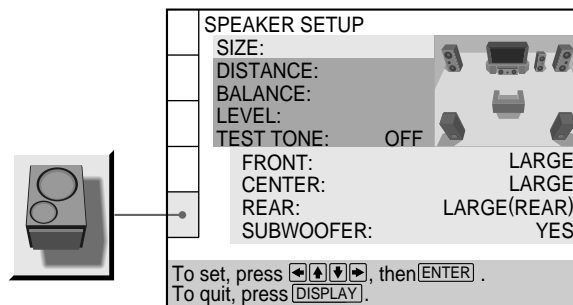
■ SIZE

Selects the size of the speakers to be connected.
• FRONT
  — LARGE: Normally select this.
  — SMALL: When the sound cracks or the surround sound effects are difficult to hear, select this. This activates the Dolby Digital bass redirection circuitry and outputs the bass frequencies of the speaker from the subwoofer.
• CENTER
  — NONE: If you do not connect a center speaker, select this.
  — LARGE: Normally select this.
  — SMALL: When the sound cracks, select this. This activates the Dolby Digital bass redirection circuitry and outputs the bass frequencies of the center speaker from other speakers .
• REAR
  — NONE: If you do not connect rear speakers, select this.
  — LARGE (REAR/SIDE): Normally select either of these according to the rear speaker's position*.
  — SMALL (REAR/SIDE): When the sound cracks or the surround sound effects are difficult to hear, select either of these according to the rear speaker's position*. This activates the Dolby Digital bass redirection circuitry and outputs the bass frequencies of the rear speaker from other speakers .

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Settings for the Speakers (SPEAKER SETUP)

- SUBWOOFER
  — <u>NONE</u>: If you do not connect a subwoofer, select this. This activates the Dolby Digital bass redirection circuitry and outputs the LFE signals from the front speakers as long as the front speaker size is set to "LARGE."
  — YES: If you connect a subwoofer, select this to output the LFE (low frequency effect) channel from the subwoofer.

* Rear speaker position
Specify the location of the rear speakers for correct "VIRTUAL REAR SHIFT," "VIRTUAL MULTI REAR" and "VIRTUAL MULTI DIMENSION" effects. These effects can be found in "VIRTUAL 3D SURROUND" of the Control Menu display.
- SIDE: If the location of the rear speakers corresponds to section **A** in the illustration below.
- REAR: If the location of the rear speakers corresponds to section **B** in the illustration below.

This setting affects only the "VIRTUAL REAR SHIFT," "VIRTUAL MULTI REAR" and "VIRTUAL MULTI DIMENSION" mode.
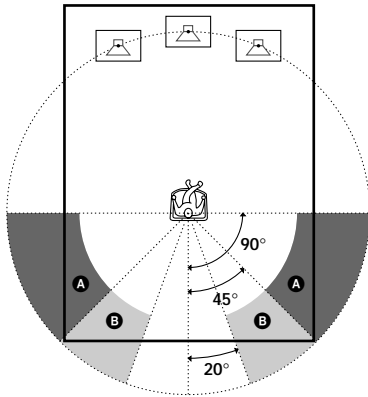
Notes
- The cut off frequency for the subwoofer is fixed at 120 Hz.
- If your speakers are too small to reproduce low bass frequencies, please set all speaker settings to "SMALL" and utilize a subwoofer for low frequency sound.

■ DISTANCE
The default distance setting for the speakers in relation to the listening position is shown below.
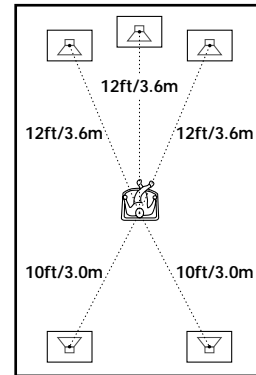
You can vary the distance of each speaker as follows. The default adjustments are in parentheses. Be sure to change the value in the setup display when you move the speakers.
- FRONT (12ft/3.6m)
  Front speaker distance can be set in 1 foot (0.3 meter) increments from 4 to 50 feet (1.2 to 15.2 meters). Distance is measured from the front speaker to the listening position.
- CENTER (12ft/3.6m)
  Center speaker distance can be set in 1 foot (0.3 meter) increments. Place the center speaker directly between the front speakers. You can move it up to 2 feet (0.6 meter) backwards or 5 feet (1.5 meters) forwards if necessary.
- REAR (10ft/3.0m)
  Rear speaker distance can be set in 1 foot (0.3 meter) increments. Place the speakers behind the listening position at a distance equal to the front speaker distance. If necessary you can move the rear speakers up to 16 feet (5 meters) closer to your listening position.

To return to the default setting
Select the item, then press CLEAR.

Notes
- If each of the front or rear speakers are not placed at an equal distance from your listening position, set the distance according to the closest speaker.
- Do not place the rear speakers farther away from your listening position than the front speakers.

Settings and Adjustments

■ **BALANCE**

You can vary the balance of the left and right speakers as follows. Be sure to set "TEST TONE" to "ON" for easy adjustment (see ■ TEST TONE below). The default adjustments are in parentheses.

• FRONT (0dB)

Adjust the balance between the front left and right speakers (–6dB [L] to +6dB [R], 0.5dB increments).

• REAR (0dB)

Adjust the balance between the rear left and right speakers (–6dB [L] to +6dB [R], 0.5dB increments).

To return to the default setting

Select the item, then press CLEAR.

■ **LEVEL**

You can vary the level of each speaker as follows. The front speaker level becomes the criterion for adjusting the other speakers. Be sure to set "TEST TONE" to "ON" for easy adjustment (see ■ TEST TONE below). The default adjustments are in parentheses.

• CENTER (0dB)

Adjust the level of the center speaker (–6dB to +6dB, 0.5dB increments).

• REAR (0dB)

Adjust the level of the rear speakers (–6dB to +6dB, 0.5dB increments).

• SUBWOOFER (0dB)

Adjust the level of the subwoofer (–10dB to +10dB, 0.5dB increments).

To return to the default setting

Select the item, then press CLEAR.

■ **TEST TONE**

The speakers will emit a test tone. Use this when you use the 5.1CH OUTPUT connectors and adjust the BALANCE and LEVEL.

• OFF: The test tone is not emitted from the speakers.
• ON: The test tone is emitted from each speaker in sequence. When you select one of the "SPEAKER SETUP" items, the test tone is emitted from both left and right speakers simultaneously.

Note

When you adjust the speaker settings, the sound cuts off for a moment.

Adjusting the speaker volume

1 After you stop playback, select "SPEAKER SETUP" in the setup display.

2 Select "TEST TONE" and set "TEST TONE" to "ON."

You will hear the test tone from each speaker in sequence.

3 From your listening position, select "BALANCE" or "LEVEL" and adjust the value of "BALANCE" using ←/→ and "LEVEL" using ↑/↓.

The test tone is emitted from both left and right speakers simultaneously.

4 Select "TEST TONE" and set "TEST TONE" to "OFF" to turn off the test tone.

To adjust the volume of all the speakers at one time

Use the receiver's (amplifier's) volume control.

Settings and Adjustments

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Controlling Your TV or AV Receiver (Amplifier) with the Supplied Remote 📶

By adjusting the remote signal, you can control your TV or AV receiver (amplifier) with the supplied remote.

Controlling TVs with the remote

TV/DVD switch ─── ⊙ ⊙ ─ ⊙ ─── I/(1)

Number ─── ① ② ③ ⊕ ⊕
buttons   ④ ⑤ ⑥
             ⑦ ⑧ ⑨
             ⓪
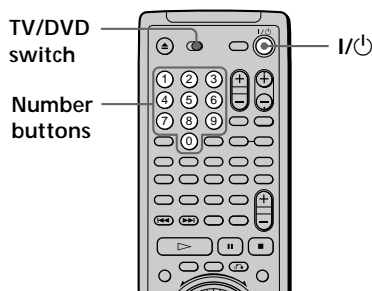
1 Slide the TV/DVD switch to TV.

2 Hold down I/(1), and enter your TV's manufacturer's code (see the table) using the number buttons.

3 Release I/(1).

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.

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.Penney	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

Notes
- If you enter a new code number, the code number previously entered will be erased.
- When you replace the batteries of the remote, the code number may be reset to the default setting. Reset the appropriate code number.

Controlling the TV

You can control your TV using the buttons below. When you set the TV/DVD switch to TV, you can also control the number, I/$\circlearrowleft$ and ENTER buttons.
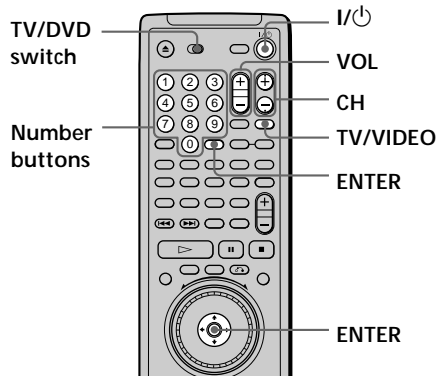
By pressing	You can
I/$\circlearrowleft$	Turn the TV on or off
TV/VIDEO	Switch the TV's input source between the TV and other input sources
VOL	Adjust the volume of the TV
CH	Select the channel of the TV
Number buttons and ENTER	Select the channel of the TV

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

Controlling AV receivers (amplifiers) with the remote
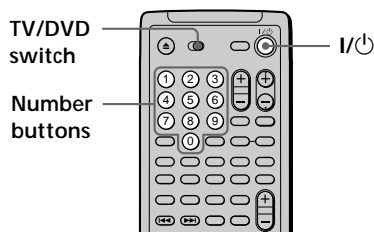
1 Slide the TV/DVD switch to DVD.

2 Hold down I/$\circlearrowleft$, and enter your AV receiver's manufacturer's code (see the table) using the number buttons.

3 Release I/$\circlearrowleft$.

Code numbers of controllable AV receivers (amplifier)

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

Manufacturer	Code number
Sony	91 (default), 89
Denon	84, 85, 86
Kenwood	92, 93
Onkyo	81, 82, 83
Pioneer	99
Sansui	87
Technics	97, 98
Yamaha	94, 95, 96

Notes
- If you enter a new code number, the code number previously entered will be erased.
- When you replace the batteries of the remote, the code number may be reset to the default setting. Reset the appropriate code number.

Controlling the AV receiver (amplifier)
You can change the volume of the AV receiver (amplifier) using AV VOL.
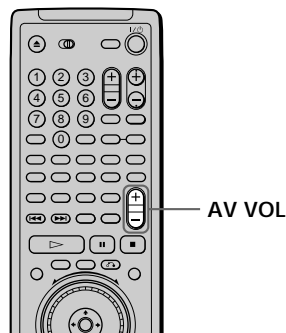
Notes
- Depending on the AV receiver (amplifier), you may not be able to control your AV receiver (amplifier).
- You can control the AV receiver (amplifier) regardless of the position of the TV/DVD switch.

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Controlling the CD Changer (Mega Control)

You can control a Sony CD changer of 5/50/200/300 discs connected to the MEGA CONTROL jack of the player.

Connecting the CD changer

CONTROL A1 cable (not supplied)

Do not connect anything to the other CONTROL A1 jack.

Audio cable (not supplied)

MEGA CONTROL

L

R

AUDIO IN

L

R

AUDIO OUT

CONTROL A1

Sony CD changer (5/50/200/300 discs)

This player
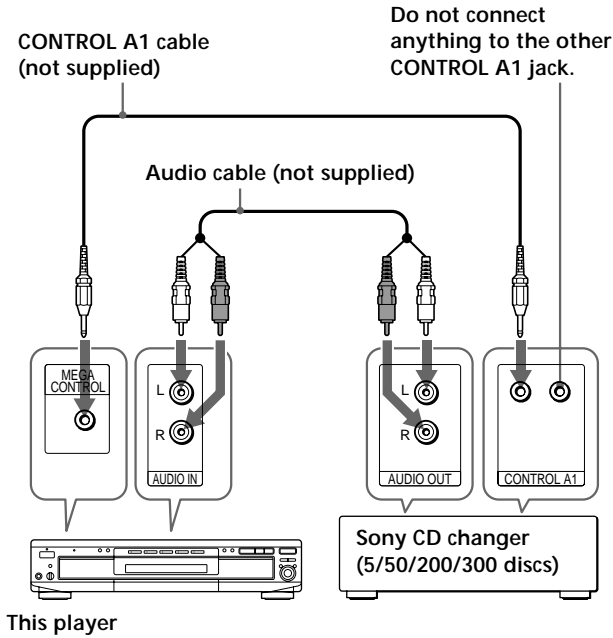
Controlling the CD changer

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

Number buttons

MEGA CTL

ENTER

|◄◄ /►►|

II

▷

■

ENTER

←/↑/↓/→

|◄◄ /►►| ▷   II   ■
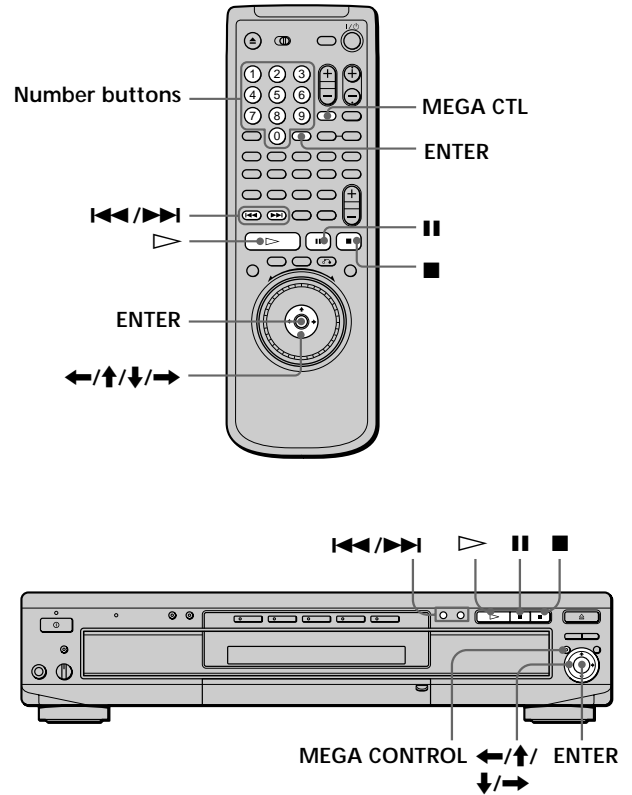
MEGA CONTROL ←/↑/ ENTER
              ↓/→

1 Set the command mode selector of the CD changer to "CD 3."

2 Turn on the player and the CD changer.

3 Press MEGA CONTROL (MEGA CTL).
The MEGA CONTROL button on the front panel lights up and the display shows the current disc number in the CD changer.

4 Select the play mode you want on the CD changer.

5 Press ▷ on the player to start playing.
Playback starts and the display shows the current disc and track numbers and the playing time of the track.
While the MEGA CONTROL button on the front panel is lit, you can control the CD changer with the controls on the player as follows:

Settings and Adjustments

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To	Operation
Select a disc in continuous play mode	Press the number button on the remote and ENTER, or ↑/↓ and ENTER.
Skip by 10 discs in continuous play mode	Press ←/→.
Stop	Press ■.
Pause	Press ❚❚.
Resume play after pause	Press ❚❚ or ▷.
Go to the next track	Press ▶▶❙.
Go back to the preceding track	Press ❙◀◀.

To control the player again
Press MEGA CONTROL (MEGA CTL).
The MEGA CONTROL (MEGA CTL) button on the player turns off and you can control the player.

Notes
• Connect only a Sony 5/50/200/300 CD changer to the MEGA CONTROL jack.
• You cannot locate a particular point on a CD's track using the controls on the player.
• Depending on the CD changer, some controls on the player may not operate the CD changer as they do the player.
• You cannot control the player when the MEGA CONTROL button on the front is lit.
• The player will not enter Resume Play after the MEGA CONTROL button on the front has been 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.
• When the MEGA CONTROL button is lit, you cannot use the Control menu.

Settings and Adjustments

Additional Information

Troubleshooting

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

Power

The power is not turned on.
➡ Check that the AC power cord is connected securely.

Picture

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 8)
➡ 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.

Picture noise appears.
➡ Clean the disc.
➡ If the video signal 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 this input. (page 8)

Even though you set the aspect ratio in "TV TYPE" in "SCREEN SETUP" of the setup display, the picture does not fill the screen.
➡ The aspect ratio is fixed on your DVD.

Sound

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 receiver (amplifier). (page 10)
- ➡ Make sure you turn on the TV and the receiver (amplifier).
- ➡ Make sure you select the appropriate input on the receiver (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.
- ➡ The player is in fast forward or fast reverse mode. Press ▷ to return to normal play mode.
- ➡ Check the speaker connections and setting (page 12, 67). Refer to the operating manual of your receiver (amplifier).
- ➡ If you use the DIGITAL OUT connectors, set "DIGITAL OUT" to "ON" in the setup display. Otherwise no sound will come from the DIGITAL OUT connectors. (page 66)

Sound is noisy.
- ➡ Clean the disc.
- ➡ When you play a CD with DTS sound tracks, noise will come from any connector other than the DIGITAL OUT OPTICAL or COAXIAL connector. (page 17)

Sound distortion occurs.
- ➡ In the setup display, set "AUDIO ATT" in "AUDIO SETUP" to "ON." (page 65)

The sound loses its stereo effect when you play a VIDEO CD or a CD.
- ➡ Set "AUDIO" to "STEREO" in the Control Menu display. (page 35)
- ➡ Make sure you connect the player correctly. (pages 8, 10, 12)

The surround effect is difficult to hear when you are playing a Dolby Digital or DTS sound track.
- ➡ Check the speaker connections and setting (pages 12, 67). Refer to the operating manual of your receiver (amplifier).
- ➡ Depending on the DVD, the output signal may not be the entire 5.1 channels. It may be monaural or stereo even if the sound track is recorded in Dolby Digital or DTS format.

The sound comes from the center speaker only.
- ➡ Depending on the disc, the sound may come from the center speaker only.
- ➡ Set "VIRTUAL 3D SURROUND" to "OFF" in the Control Menu display. (page 39)

Operation

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 of the batteries in the remote with new ones if they are weak.

The disc does not play.
- ➡ There is no disc inside ("Insert disc." appears on the TV screen).
  Insert a disc.
- ➡ Insert the disc correctly with the playback side facing down on the disc tray.
- ➡ 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 6)

The player does not play from the beginning when playing a disc.
- ➡ Program Play, Shuffle Play, Repeat Play or A-B Repeat Play has been selected. Press CLEAR. (pages 47 through 50)
- ➡ Resume Play has been selected.
  Press ■ on the front panel or on the remote before you start playing. (page 19)
- ➡ 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.

Troubleshooting

The player starts playing the disc automatically.
➡ The DVD features the auto playback function.
➡ "AUTO PLAY" in "CUSTOM SETUP" is set to "TIMER." (page 61)

Playback stops automatically.
➡ The disc may contain an auto pause signal. While playing such a disc, the player stops playback at the signal.

You cannot perform some functions such as Stop, Search, Slow-motion Play, Repeat Play, Shuffle Play or Program Play.
➡ Depending on the disc, you may not be able to 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 desired language for the on-screen display in "OSD" under "LANGUAGE SETUP." (page 59)

The language for the sound track cannot be changed when you play a DVD.
➡ Multilingual tracks are not recorded on the DVD.
➡ Changing the language for the track is prohibited on the DVD.

The subtitle language 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 38)
➡ Changing the angles is prohibited on the DVD.

The player does not operate properly.
➡ Static electricity, etc., may affect the player's operation.
Press ① on the player to turn the player off and then on again.

Nothing is displayed on the front panel display.
➡ In the set up display, "DIMMER" in "CUSTOM SETUP" is set to "OFF."
Set "DIMMER" to "BRIGHT" or "DARK." (page 61)

The sound does not come from the CD changer connected using the CONTROL A1 cable
➡ Turn on the player.
➡ Press the MEGA CONTROL button on the front panel. (page 72)

5 numbers or letters are displayed on the screen and on the front panel display.
➡ The self-diagnosis function was activated. See the table on page 77.

The disc tray does not open and "LOCKED" is displayed on the front panel display.
➡ Contact your Sony dealer or local authorized Sony service facility.

Self-diagnosis function

When the self-diagnosis function activates to prevent the player from malfunctioning, a five-character service number (combination of a letter and digits) flashes on the screen and on the front panel display. In this case, check the following table.

C:13:00
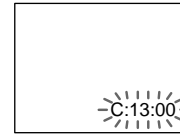
First three characters	Cause and/or Corrective Action
C13	• The disc is dirty. ➜ Clean the disc with a cleaning cloth. (page 6)
C31	• The disc is not inserted correctly. ➜ Open the disc tray and insert the disc correctly.
Exx (xx is any number)	• To prevent a malfunction, the player has performed the self-diagnosis function. ➜ When you contact your Sony dealer or local authorized Sony service facility, give the 5-character service number. (example: E:61:10)

Additional Information

Specifications

CD/DVD player

Laser   Semiconductor laser
Signal format system
     NTSC

Audio characteristics

Frequency response
     DVD (PCM 96 kHz): 2 Hz to 44 kHz
       (±1.0 dB)
     DVD (PCM 48 kHz): 2 Hz to 22 kHz
       (±0.5 dB)
     CD: 2 Hz to 20 kHz (±0.5 dB)
Signal-to-noise ratio
     More than 110 dB
       (AUDIO OUT connectors only)
Harmonic distortion
     Less than 0.003 %
Dynamic range
     More than 100 dB (DVD)
     More than 97 dB (CD)
Wow and flutter
     Less than detected value
       (±0.001% W PEAK)

Outputs/Inputs

	Jack type	Output/input level	Load impedance
AUDIO OUT (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
VIDEO OUT (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	75 ohms, sync negative
		C: 0.286 Vp-p	75 ohms terminated
COMPONENT VIDEO OUT (Y, P_B/B-Y, P_R/R-Y)	Phono jacks	Y: 1.0 Vp-p	75 ohms, sync negative
		P_B/B-Y, P_R/R-Y: 0.7 Vp-p	75 ohms
5.1CH OUTPUT	Phono jack	2 Vrms (at 50 kilohms)	Over 10 kilohms
S-LINK	Mini jack	–	–
PHONES	Phone jack	12 mW	32 ohms

	Jack type	Output/input level	Load impedance
MEGA CONTROL	Mini jack	–	–
AUDIO IN	Phono jack	2 Vrms	47 kilohms

General

Power requirements
     DVP-C670D
       120 V AC, 60 Hz
     DVP-C675D
       110 – 240 V AC, 50/60 Hz
Power consumption
     DVP-C670D
       17 W
     DVP-C675D
       18 W
Dimensions (approx.)
     $430 \times 95 \times 414$ mm ($17 \times 3\,^3/_4 \times 16\,^3/_8$ in.)
       (w/h/d) incl. projecting parts
Mass (approx.)
     5.4 kg (11 lb 14 oz)
Operating temperature
     5 ˚C to 35 ˚C (41 ˚F to 95 ˚F)
Operating humidity
     25 % to 80 %

Supplied accessories

See page 7.

Design and specifications are subject to change without notice.

ENERGY STAR® is a U.S. registered mark.
As an ENERGY STAR® Partner, Sony Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

Glossary

Bit rate (page 42)
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, 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 39)
The general name of technology that Sony developed to enjoy surround sound in a home. It simulates the sound of a movie editing studio instead of the usual concert hall so that you can enjoy the surround sound of a movie theater in the comfort of your own home. The VES (Virtual Enhanced Surround) system contained in DCS programs 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 (pages 11, 66)
Digital audio compression technology developed by Dolby Laboratories. This technology conforms to 5.1-channel surround sound. The rear channel is stereo and there is a discrete subwoofer channel in this format. Dolby Digital provides the same 5.1 discrete channels of high quality digital audio found in Dolby Digital cinema audio systems. Good channel separation is realized because all of the channel data is recorded discretely and processed in digital.

Dolby Pro Logic (pages 40, 66)
Audio signal processing technology that Dolby Laboratories developed for surround sound. When the input signal contains a surround component, the Pro Logic process outputs the front, center and rear signals. The rear channel is monaural.

DTS (pages 11, 67)
Digital audio compression technology that Digital Theater Systems, Inc. developed. This technology conforms to 5.1-channel surround. The rear channel is stereo and there is a discrete subwoofer channel in this format. DTS provides the same 5.1 discrete channels of high quality digital audio. Good channel separation is realized because all of the channel data is recorded discretely and processed in digital.

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 is 4.7 GB (Giga Byte) which is 7 times that of a CD. The data capacity of a dual-layer and single-sided DVD is 8.5 GB, a single-layer and double-sided DVD is 9.4 GB, and a dual-layer and double-sided DVD is 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 a variable rate coding technology that changes the data to be allocated according to the status of the picture.
Audio data is recorded in Dolby Digital as well as in PCM, allowing you to enjoy a 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 38)
Various angles for the scene (viewpoints of the video camera) are recorded on some DVDs.

Multilingual function (pages 14, 37, 59)
Several languages for the audio track or subtitles in a picture are recorded on some DVDs.

Parental Control (page 62)
A function of the DVD used to limit playback of the disc according to the age of the user and 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 21)
Signals encoded on VIDEO CDs (Version 2.0) to control playback.
By using menus 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 section 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 audio software. Each title is assigned a title number enabling you to locate the title you want.

Additional Information

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Glossary

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.

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.

Language Code List

For details, see pages 37, 59.

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		

Index to Parts and Controls

Refer to the pages indicated in parentheses for details.

Front Panel

1 ⏻ **(power) button and indicator (16)**
Disconnects the power of the player or places the player in standby mode.

2 **VIRTUAL SURROUND HEADPHONES button and indicator (41)**
Press to turn on the VIRTUAL SURROUND HEADPHONES function.
The indicator lights up when it is on.

3 **MULTICHANNEL indicator**
Lights up when:
  – playing back a Dolby Digital soundtrack on the DVD
  – playing back a DTS soundtrack on the DVD
  – the disc is not inserted

4 **DVE (Digital Video Enhancer) button and indicator (52)**
Press to select a Digital Video Enhancer level.
The indicator lights up for every selected item except "OFF."

5 **VIRTUAL 3D SURROUND button and indicator (41)**
Press to select the desired "VIRTUAL 3D SURROUND" item.
The indicator lights up for every selected item except "OFF."

6 **DISC SELECT 1 – 5 buttons and indicators (18)**
Selects a disc. The indicator lights up in green when a disc is being played or is loaded, and lights up in amber if the disc is waiting to be loaded. The indicator does not light up when the loaded tray is empty or if the disc cannot be played.

7 **⊠ (remote sensor) (7)**
Accepts the remote control signals.

8 **I◀◀ /▶▶IPREV/NEXT (previous/next) buttons (17)**
Press to go to the next chapter or track, or to go back to the previous chapter or track.

9 **▷ (play) button (16)**
Plays a disc.

10 **II (pause) button (17)**
Pauses playing a disc.

11 **■ (stop) button (17, 19)**
Stops playing a disc.

12 **EXCHANGE button (22)**
Press to change discs during playback.

13 **⏏OPEN/CLOSE button (16)**
Opens or closes the disc tray.

14 **DISC SKIP button (16, 22)**
Press to turn the disc tray to place other discs.

15 **PHONES connector (16)**
Connect the headphones to this connector.

16 **PHONES LEVEL control (16)**
Adjusts the headphone volume.

17 **Disc tray (16)**
Place the discs on the tray.

18 **SHUFFLE button (48)**
Displays the "SHUFFLE" display on the TV screen.

19 **REPEAT button (49)**
Displays the "REPEAT" display on the TV screen.

20 **1/ALL button (45)**
Selects 1 DISC or ALL DISCS play mode.

w LOAD button (25)
Reads the information of the discs loaded in sequence.
e; Front Panel Display (23)
Indicates the playing time, etc.
e' TITLE button (20)
Displays the title menu on the TV screen.
e/ DVD MENU button (21)
Displays the DVD menu on the TV screen.

e(∂RETURN button (22, 29)
Press to return to the previously selected screen, etc.
e) MEGA CONTROL button and indicator (72)
Press to control the connected CD changer.
e* ←/↑/↓/→/ENTER button
Selects and executes the items or settings.
e< DISPLAY button (28)
Displays the Control Menu display on the TV screen
to set or adjust the Control Menu items.

Rear Panel
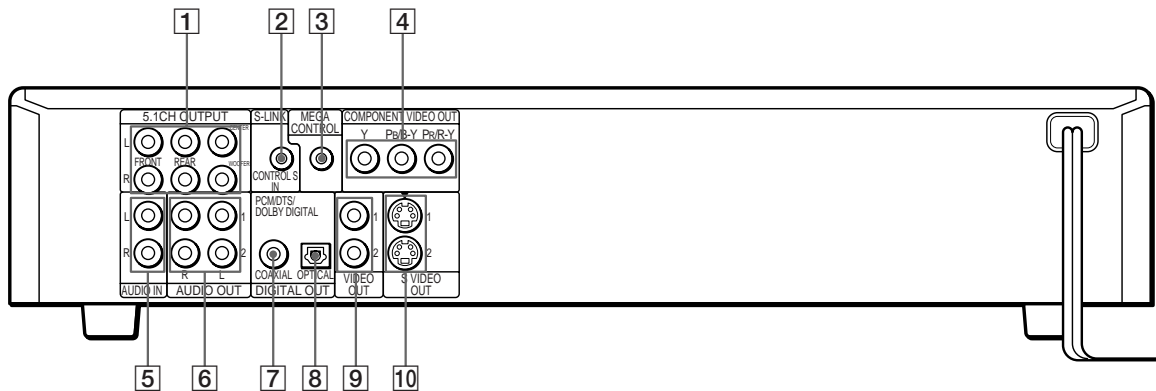
1 5.1CH OUTPUT connectors (13)
Connect to a receiver (amplifier) having 5.1 channel
input connectors.
2 S-LINK connector (8)
Connect to the S-link connector on an external
component.
3 MEGA CONTROL connector (72)
Connect to the control connector on a Sony CD
changer of 5/50/200/300 discs.
4 COMPONENT VIDEO OUT connectors (9)
Connects to a monitor or projector having component
video input connectors (Y, PB/B-Y, PR/R-Y) that
conform to output signals from the player.
5 AUDIO IN (L, R) connectors (72)
Connect to the audio output on a Sony CD changer of
5/50/200/300 discs.

6 AUDIO OUT R (right)/L (left) 1/2 connectors (8, 10)
Connect to the audio input connector on your TV or
receiver (amplifier).
7 DIGITAL OUT COAXIAL connector (10)
Connect to an audio component using a coaxial digital
connecting cord.
8 DIGITAL OUT OPTICAL connector (10)
Connect to an audio component using an optical
digital connecting cord. Take off the cap.
9 VIDEO OUT 1/2 connectors (8)
Connect to the video input connector on your TV or
monitor.
0 S VIDEO OUT 1/2 connectors (8, 10)
Connect to the S video input connector on your TV or
monitor.

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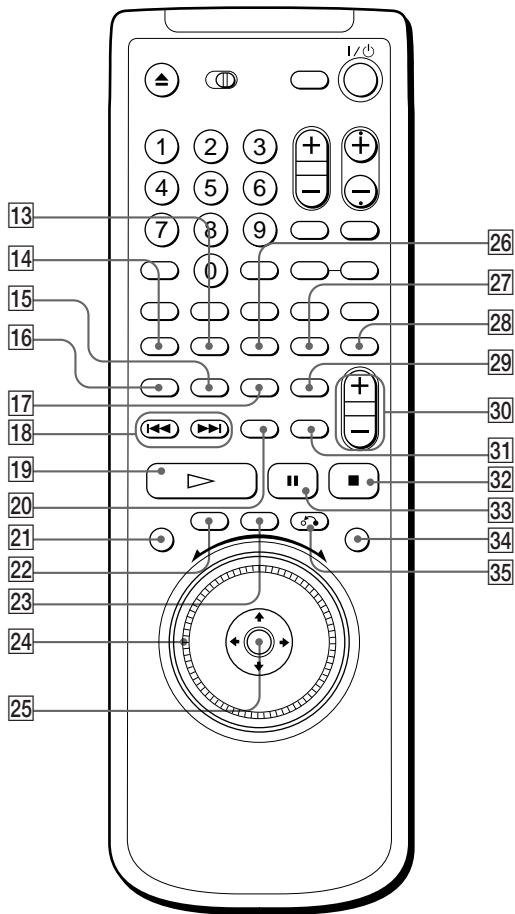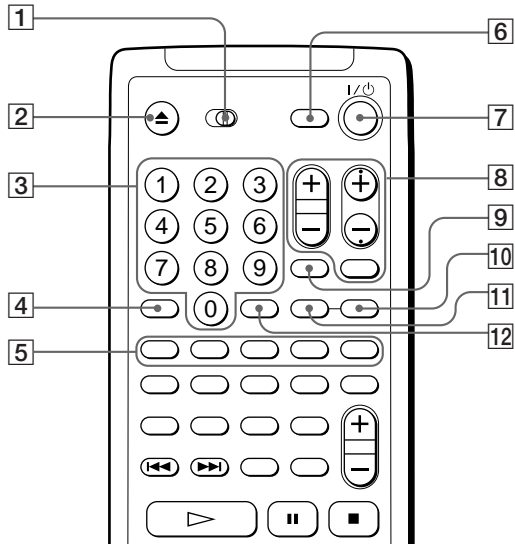
Remote

1 **TV/DVD switch (70)**
Selects to control the player or the TV with the remote.

2 **≜OPEN/CLOSE button (17)**
Opens or closes the disc tray.

3 **Number buttons**
Selects the items or settings.

4 **CLEAR button (47 through 50)**
Press to return to continuous play, etc.

5 **DISC 1 – 5 buttons (17)**
Selects a disc.

6 **DISC EXPLORER button (25)**
Displays the disc information such as jacket picture and disc memo.

7 **I/**$\circlearrowleft$ **(on/standby) button (16)**
Press to turn on the player or place it in standby mode after power is connected by pressing ① on the player.

8 **TV (television) operation buttons (71)**
Controls TVs.

9 **MEGA CTL (control) button (72)**
Press to control the connected CD changer.

10 **TIME/TEXT button (23)**
Displays the playing time of the disc, etc., on the front panel display.

11 **INPUT button (35)**
Press when labeling a disc.

12 **ENTER button**
Executes the items or settings.

13 **PROGRAM button (47)**
Displays the "PROGRAM" display on the TV screen.

14 **SHUFFLE button (48)**
Displays the "SHUFFLE" display on the TV screen.

15 **ANGLE button (38)**
Changes the angles when playing a DVD.

16 **AUDIO button (36)**
Changes the sound while playing a DVD or VIDEO CD.

17 **SUBTITLE button (37)**
Changes the subtitles when playing a DVD.

18 **I◄◄ /►►IPREV/NEXT (previous/next) buttons (17)**
Press to go to the next chapter or track, or to go back to the previous chapter or track.

19 **►PLAY button (16)**
Plays a disc.

20 **PICTURE MEMORY button (61)**
Press to store a picture in memory.

21 **DISPLAY button (28)**
Displays the Control Menu display on the TV screen to set or adjust the Control Menu items.

22 **TITLE button (20)**
Displays the title menu on the TV screen.

23 **DVD MENU button (21)**
Displays the DVD menu on the TV screen.

24 **Click shuttle (18)**
Changes the playback speed.

25 ←/↑/↓/→/ENTER buttons

Selects and executes the items or settings.

26 REPEAT button (49)

Displays the "REPEAT" display on the TV screen.

27 1/ALL DISCS button (45)

Selects 1 DISC or ALL DISCS play mode.

28 DVE (Digital Video Enhancer) button (52)

Press to select the Digital Video Enhancer level.

29 LOAD button (25)

Reads the information of the discs loaded in sequence.

30 AV VOL button (71)

Change the sound volume of the AV receivers
(amplifiers).

31 BOOKMARK button (54)

Press to set a bookmark.

32 ■STOP button (17, 19)

Stops playing a disc.

33 ‖PAUSE button (17)

Pauses playing a disc.

34 JOG button and indicator (18)

Press to play a disc frame by frame.

35 ♪RETURN button (22, 29)

Press to return to the previously selected screen, etc.

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Additional Information