

CD/DVD Player

Operating Instructions



DVP-CX870D

WARNING

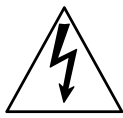
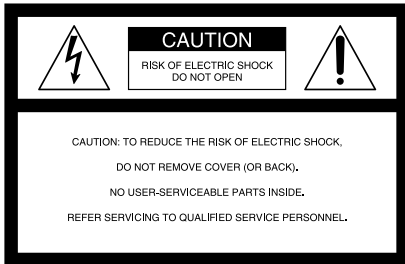
To prevent fire or shock hazard, do not expose the unit to rain or moisture. To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

CAUTION

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



This label is located on the Laser protective housing inside the enclosure.



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.

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.

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-CX870D
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.

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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.
	Indicates that the function is for DVD VIDEOS.
	Indicates that the function is for VIDEO CDs.
	Indicates that the function is for Audio CDs.

This Player Can Play the Following Discs


	DVD VIDEOS		VIDEO CDs		Audio CDs	
Disc logo						
Contents	Audio + Video		Audio + Video		Audio	
Disc size	12 cm	8 cm	12 cm	8 cm	12 cm	8 cm (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.

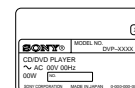
Region code of DVDs you can play on this unit

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.



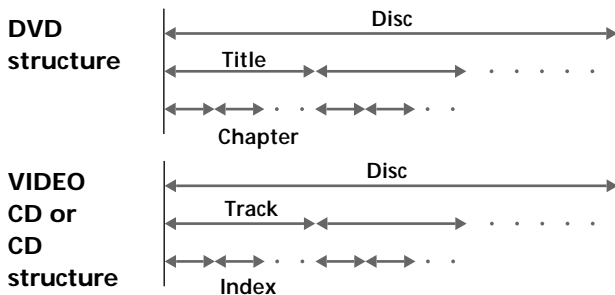
Region code

Note on playback operations of DVDs and VIDEO CDs

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

Terms for discs

- **Title**
The longest 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.



- **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 discs or the player 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.

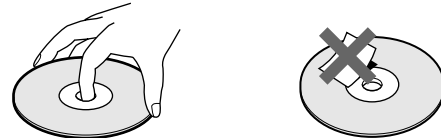
IMPORTANT NOTICE

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

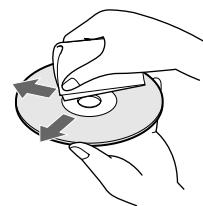
- To keep the disc clean, handle the disc by its edge. Do not touch the surface.
- Do not stick paper or tape on the disc. If there is glue (or a similar substance) on the disc, remove the glue completely before using the disc.



- 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.

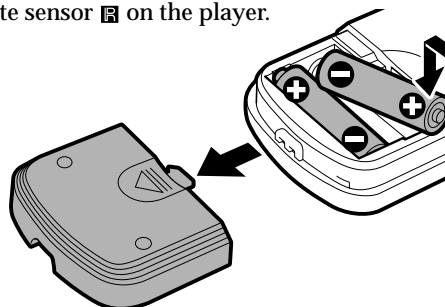
Unpacking


Check that you have the following items:

- Audio/video connecting cord (1)
- S-link (control S) connecting cord (1)
- S video cord (1)
- Remote commander (remote) RMT-D124A (1)
- Size AA (R6) batteries (2)

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.



 You can control TVs and AV receivers (amplifiers) using the supplied remote
See page 78.

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 slots.**
Failure to remove the discs may cause damage to the player.
- 2 Press OPEN/CLOSE to close the front cover.**
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

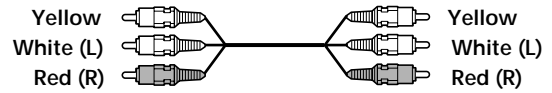
This connection is for listening to the sound through TV speakers (L: left, R: right). Refer to the instructions supplied with the component to be connected.

 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 47.

Required cords

Audio/video connecting cord (supplied) (1)



S-link (control S) cord (supplied) (1)



S video cord (supplied) (1)

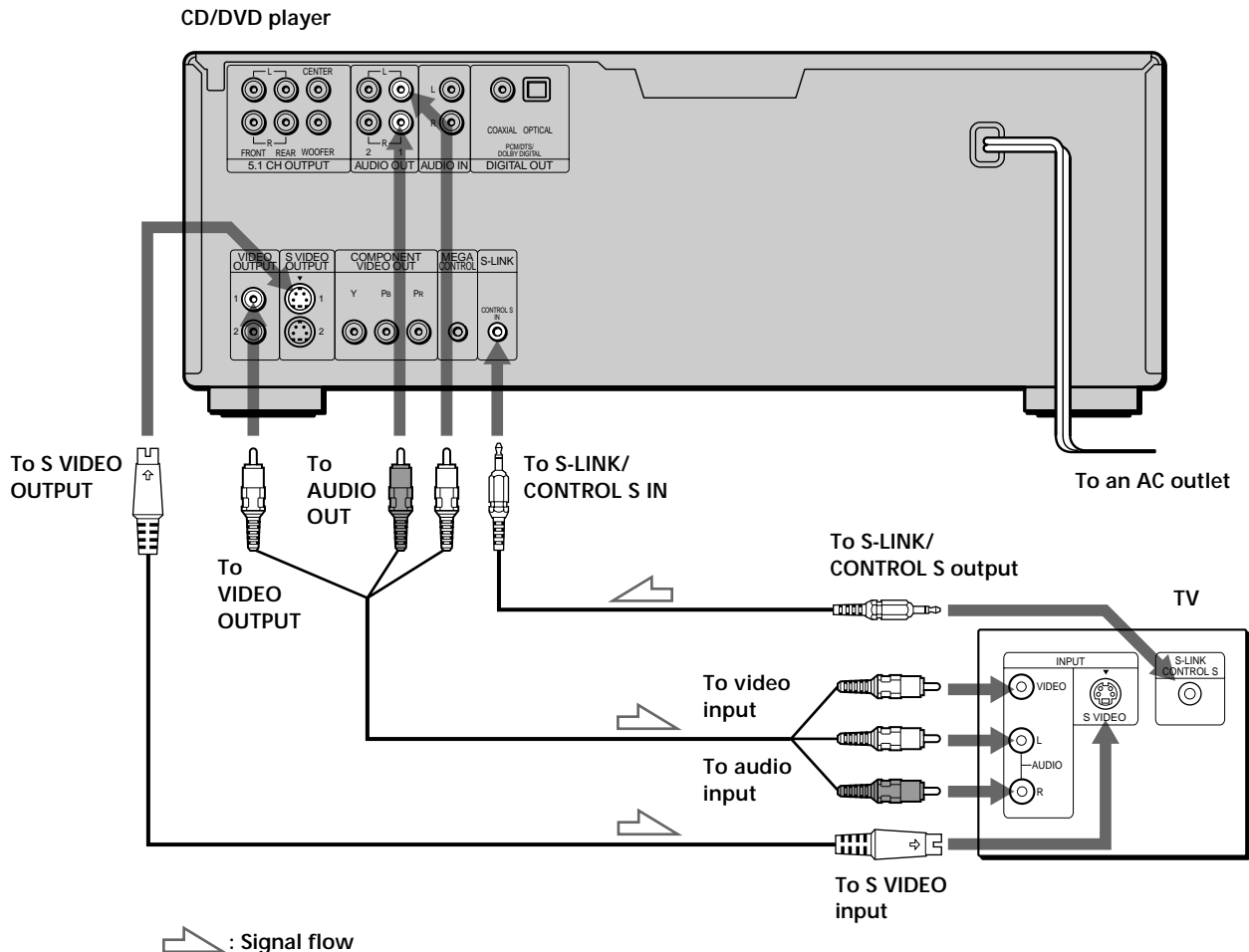


When connecting the cords, be sure to match the color-coded cord to the appropriate jacks on the components: Yellow (video) to Yellow, Red (right) to Red and White (left) to White. Be sure to make connections firmly to avoid hum and noise.

If your TV has an S-LINK (CONTROL S) connector, you can control the CD/DVD player from the TV. Connect the TV via the S-LINK/CONTROL S IN connector.

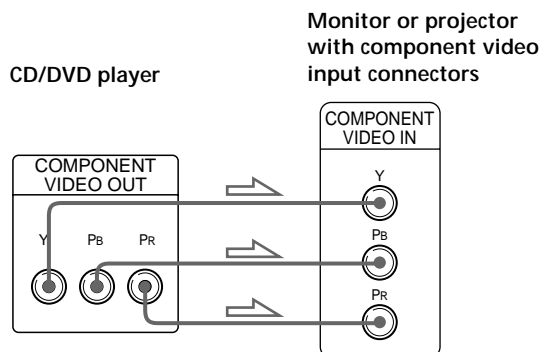
If your TV has an S video input connector, connect the component via the S VIDEO OUTPUT connector using the supplied S video cord. You will get a better picture.

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



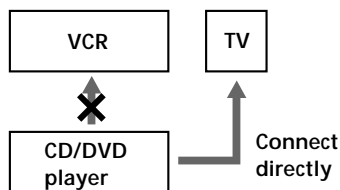
If you connect the player to a monitor or projector having component video input connectors that conform to output signals from the COMPONENT VIDEO OUT (Y, PB, PR) connectors on the player

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.



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.

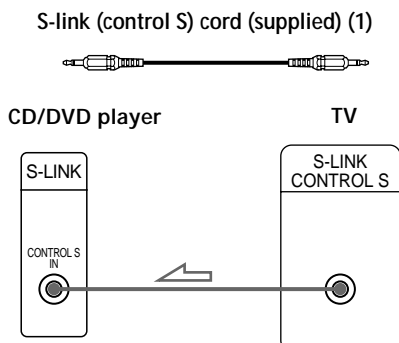


- Depending on the TV or receiver (amplifier), sound distortion may occur because the audio output level is high. In this case, set "AUDIO ATT" in "AUDIO SETUP" to "ON" in the setup display. For details, see page 73.

💡 If your TV has an S-link (control S) connector

You can control the player from the TV.

Connect the TV via the S-LINK/CONTROL S IN connector using the S-link (control S) cord (supplied). Refer to the instructions supplied with the TV to be connected.



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 63.

- **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 67.
- **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 67.
- **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 67.

Receiver (Amplifier) Hookups

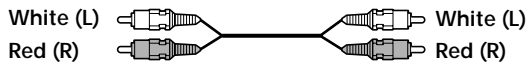
Connect your receiver (amplifier) as follows. Refer as well to the instructions supplied with the component to be connected.

💡 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 47.

Required cords

Audio connecting cord (not supplied) (1)



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)

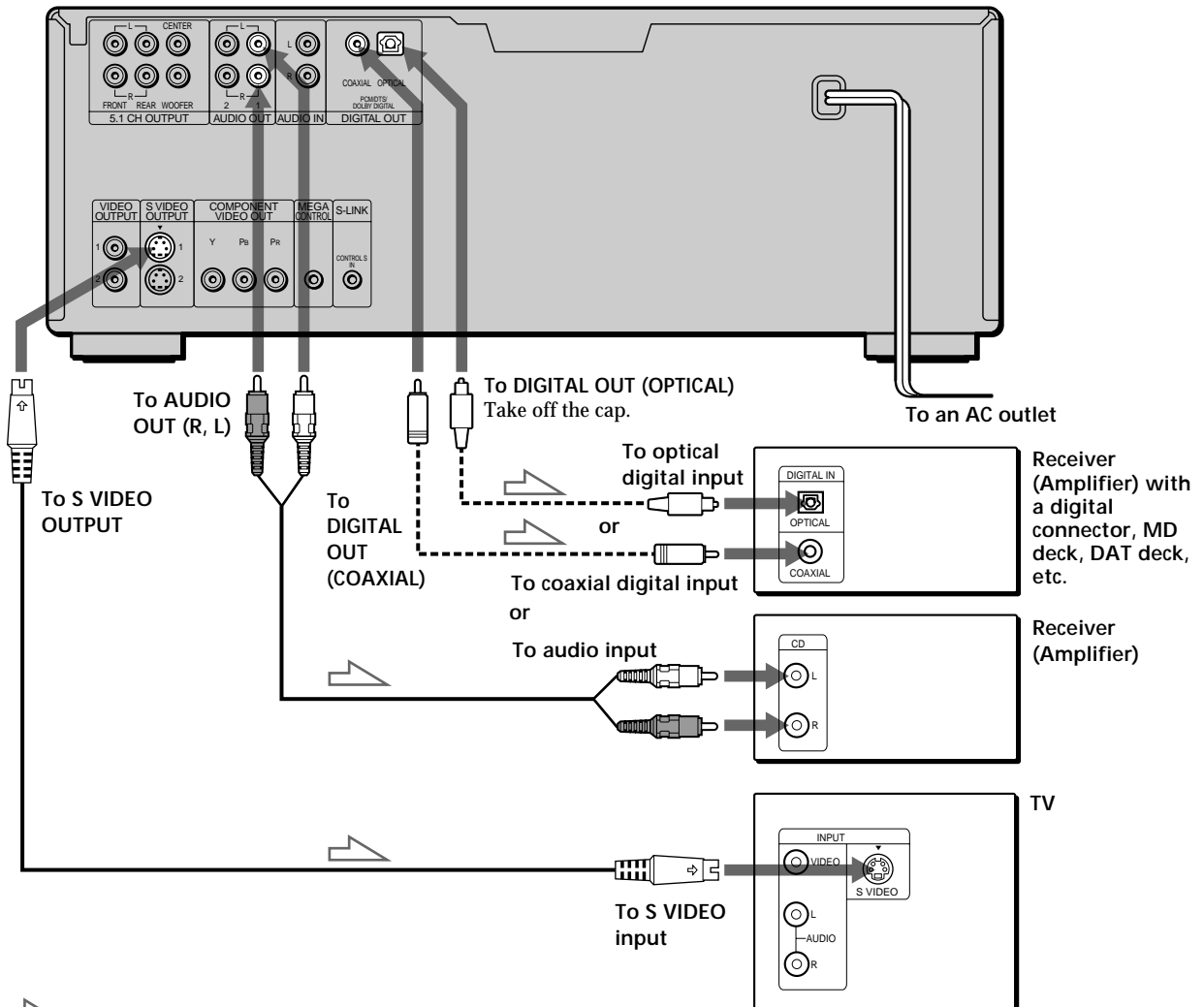


Coaxial digital connecting cord (not supplied) (1)



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 Explorer and menu settings to be cancelled when you turn off the receiver.

CD/DVD player



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.

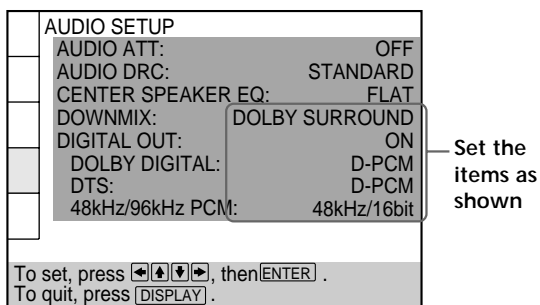
Use the setup display to change the various settings.

For details on using the setup display, see page 63.

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 73) as shown in the illustration below. These are the default settings.



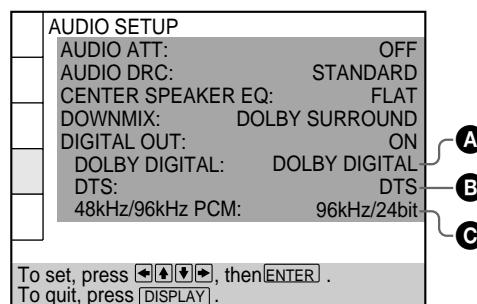
When you have made the connections using an optical or coaxial digital connecting cord, do not set "DOLBY DIGITAL" to "DOLBY DIGITAL," "DTS" to "DTS" and "48kHz/96kHz PCM" to "96kHz/24bit." If you do, a loud noise will suddenly come out from the speakers, affecting your ears or causing the speakers to 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 **A**
Set "DIGITAL OUT" in "AUDIO SETUP" to "ON" and then set "DOLBY DIGITAL" to "DOLBY DIGITAL" in the setup display (page 74).
- When you connect an audio component with a built-in DTS decoder **B**
Set "DIGITAL OUT" in "AUDIO SETUP" to "ON" and then set "DTS" to "DTS" in the setup display (page 74).
- When you connect an audio component that is compatible with 96kHz/24bit **C**
Set "DIGITAL OUT" in "AUDIO SETUP" to "ON" and then set "48kHz/96kHz PCM" to "96kHz/24bit" in the setup display (page 74).

**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 47.

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.

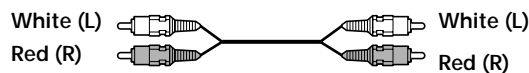
Note

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 5.1 CH OUTPUT FRONT and REAR jacks



Monaural audio cords (not supplied) (2)

For 5.1 CH OUTPUT CENTER and WOOFER jacks.



S video cord (supplied) (1)

For the S VIDEO OUTPUT 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 Explorer 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

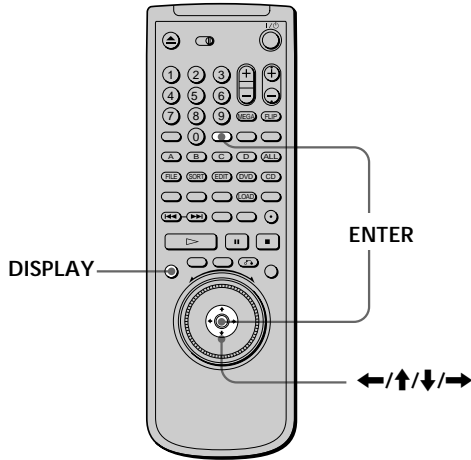
Some setup adjustments are necessary for the player depending on the components to be connected.

Use the setup display to change the various settings. For details on using the setup display, see page 63.

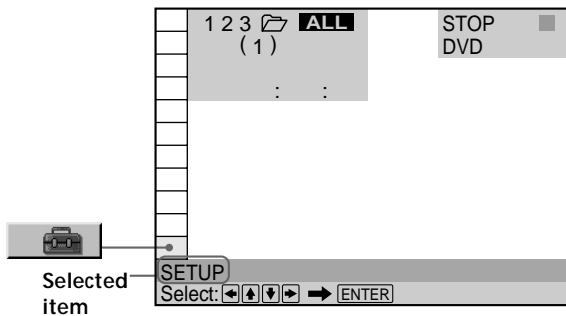
- **To enjoy surround sounds by connecting the player to a receiver (amplifier) with 5.1 channel inputs** Correctly adjust each speaker to your listening position (page 75).

Selecting the Language for the On-Screen Display

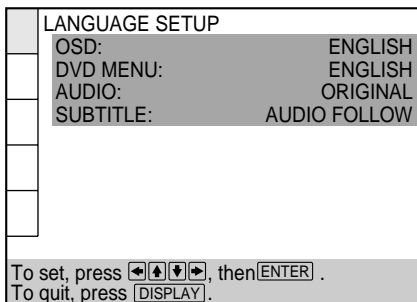
You can select the language for the setup display, the Control Menu display or the messages displayed on the screen. The default setting is "ENGLISH."



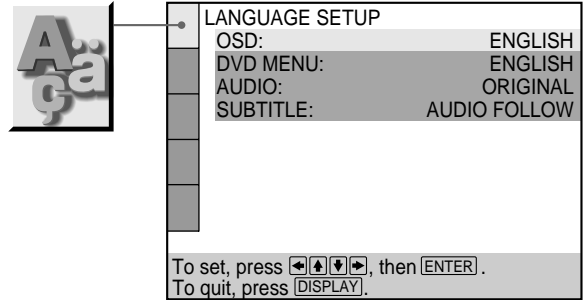
- 1 When the player is in stop mode, press DISPLAY and select "SETUP" using \uparrow/\downarrow .
The on-screen menu items are different depending on whether there is a disc in the player or not.



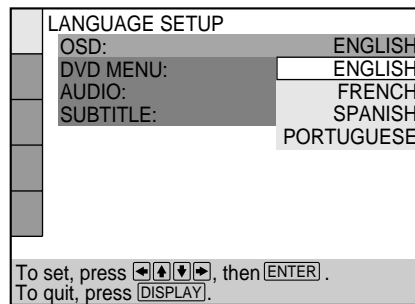
- 2 Press ENTER.
The setup display appears on the TV screen.



- 3 Select "LANGUAGE SETUP" using \uparrow/\downarrow , and then press ENTER.



- 4 Select "OSD" using \uparrow/\downarrow , then press \rightarrow or ENTER.
The languages you can select are displayed.



- 5 Select the desired language using \uparrow/\downarrow , then press ENTER.



- 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

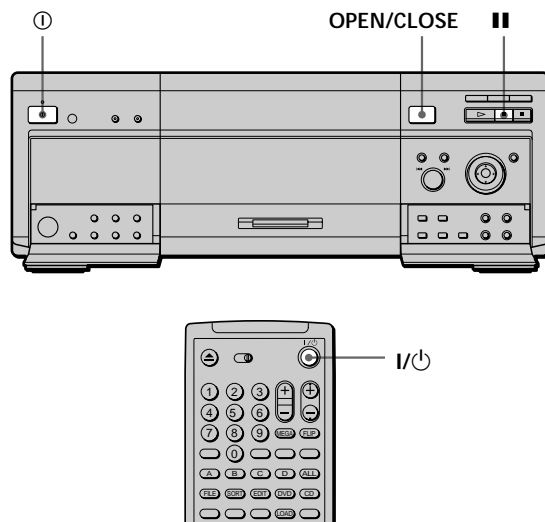
The languages you can select are the ones displayed in Step 4.
For details, see page 66.


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



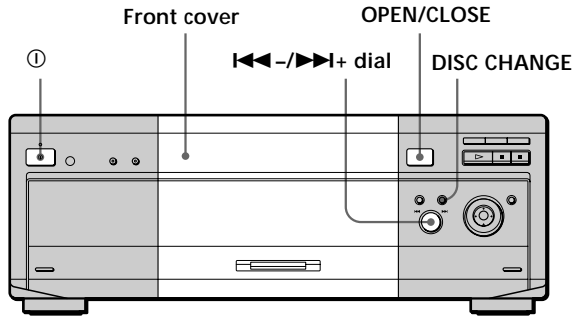
- 1** Press ① on the player, then press I/⏻ on the remote.
The power indicator lights up in green.
- 2** Press OPEN/CLOSE to open the front cover.
- 3** Press and hold  on the player for more than three seconds.
You will hear one beep and the Sound Feedback function is turned on.

To turn off the Sound Feedback Function

When the front cover is open, press and hold  on the player for more than three seconds. You will hear two beeps and the Sound Feedback function is turned off.

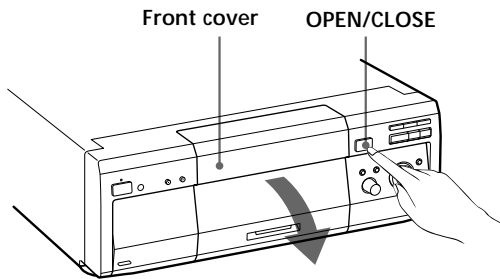
Inserting Discs

You can insert up to 301 discs into the disc slots (including the EASY PLAY slot) in this player.



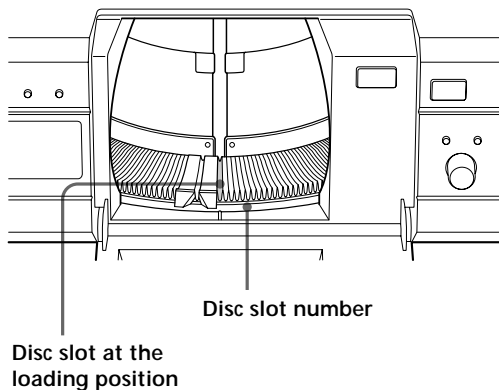
1 Press ① to turn on the player.

2 Press OPEN/CLOSE.
The front cover opens.



3 Press DISC CHANGE to turn the indicator on.

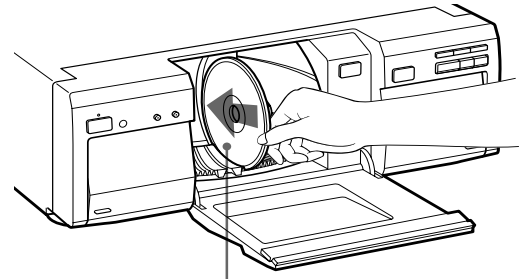
4 Turn the \ll-/>math>\gg</math>+ dial until you find the disc slot where you want to insert a disc, while checking the disc slot number indicated on the front panel display or by the slot.



5 Insert a disc with the playback side facing left.

Notes

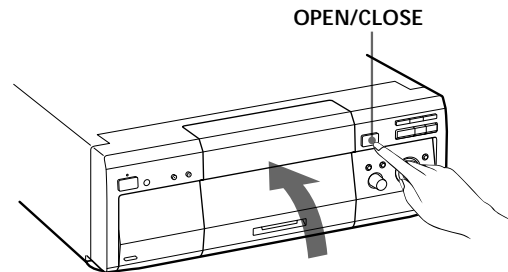
- Make sure you have inserted the disc into each slot at a right angle to the rotary table. If the disc is not put in straight, it may damage the player or the disc.
- Gently place the disc all the way into the slot and do not release the disc until it is completely seated.




With the playback side facing left

6 Repeat Steps 4 and 5 to insert more discs.

7 Close the front cover by pressing OPEN/CLOSE.



The rotary table turns and the disc slot at the loading position is set to the playing position.

 You can select a disc slot number by skipping by 10 slots. When you select the disc slot number in Step 4, press DISC SKIP +/- on the remote. Ten disc slots each before and after from the current disc slot number will be skipped.

Notes

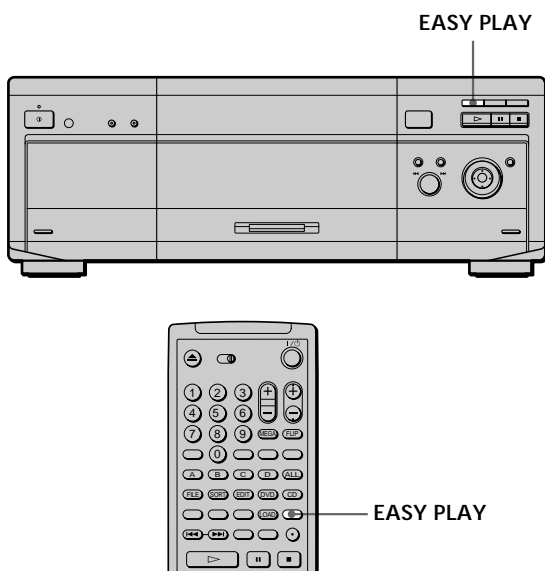
- When you insert an 8 cm (3-inch) CD, be sure to attach a Sony CD-single adaptor (not supplied) to the disc and only use the EASY PLAY slot. Do not insert an empty 8 cm (3-inch) CD adaptor. It may damage the player.
- Do not attach anything such as stickers or sleeves to discs. It may damage the player or the disc.
- Do not turn the turntable by hand.
- Do not reach inside of the turntable compartment. Always follow the correct steps for inserting and removing discs.
- When transporting the player, remove all discs from the player. Failure to remove the discs may cause damage to the player.

- When closing the front cover, be careful not to let anything get caught between the door and the player.
- Do not insert anything other than a DVD, Audio CD or Video CD into the player.

Using the EASY PLAY slot

The EASY PLAY slot can be used separately from other slots for the purpose of inserting a disc you want to play immediately.

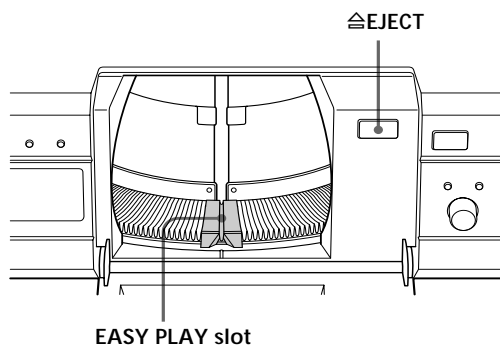
The EASY PLAY disc is numbered 301. When you use the Program Play or Disc Explorer function, or Search for a disc by slot number, enter the disc in the EASY PLAY slot as disc number 301.



To insert a disc to the EASY PLAY slot

1 Press EASY PLAY.

The EASY PLAY indicator lights up on the player and the EASY PLAY slot comes to the loading position and the front cover opens.



2 Insert the disc.

3 Press EASY PLAY again.

The front cover closes and playback of the EASY PLAY disc starts.

If you press EASY PLAY when there is a disc in the EASY PLAY slot

The player loads the disc information and starts playback of the disc.



"EZ" appears in the front panel display when the EASY PLAY slot is being used.

To remove the disc from the EASY PLAY slot

1 Press OPEN/CLOSE to open the front cover.

The front cover opens.

2 Press EASY PLAY.

The EASY PLAY indicator lights up on the player and the EASY PLAY slot comes to the loading position.

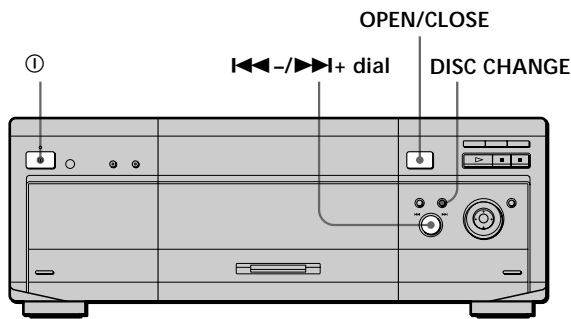
3 Press EJECT on the player.

The loading guide rises so that you can remove the disc easily.

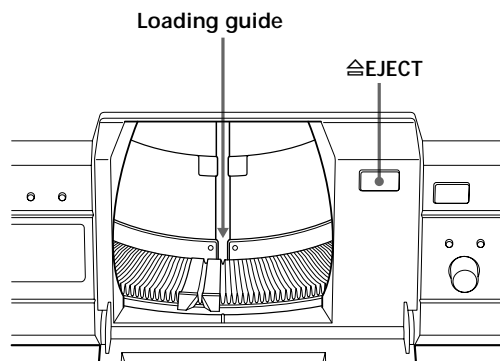
4 Remove the disc.

Inserting Discs

Removing discs



- 1 Press ① to turn on the player.
- 2 Press OPEN/CLOSE.
- 3 Press DISC CHANGE to turn the indicator on.
- 4 Turn the ◀◀-/▶▶I+ dial until you find the disc you want to remove, while checking the disc slot number indicated on the front panel display or by the slot.
- 5 Press ≡EJECT on the player.
The loading guide rises so that you can remove the disc easily.



- 6 Remove the disc.
- 7 Repeat Steps 4 to 6 to remove other discs.
- 8 Close the front cover by pressing OPEN/CLOSE.

If you replace a disc in Step 6

The loading guide automatically goes down after few seconds. If you want to place another disc in the same slot, wait until the loading guide goes down before inserting the disc.

Note

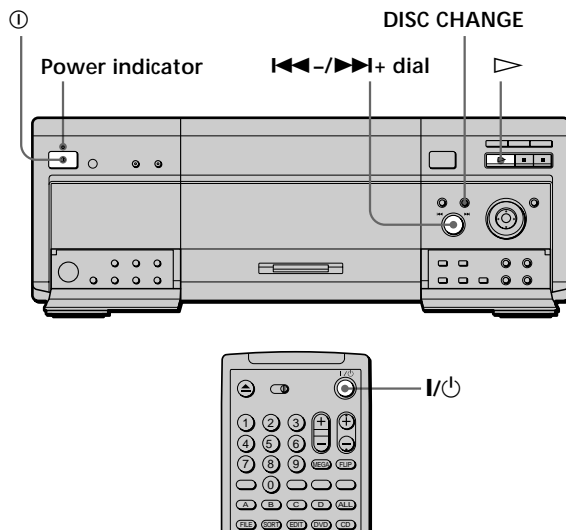
The loading guide automatically goes down when you make another operation.

Playing Discs

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

Playing Discs

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



- 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 place the player in standby mode.**
The player enters standby mode and the power indicator lights up in red.
- 3 Press I/⏻ on the remote to turn on the player.**
The power indicator lights up in green.
- 4 Press ▷.**
The player starts playback. Adjust the volume on the TV or the receiver (amplifier).

To change the disc

Press DISC CHANGE to turn the indicator on. Then turn the I<<<-/▶>>I+ dial until the desired disc number appears on the front panel display. Press the I<<<-/▶>>I+ dial to start playback.

Playing Discs

After following Step 4

■ When playing a DVD

A DVD menu or title menu may appear on the TV screen (see page 24).

■ 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 25.)

To turn on the player

Press **⏻** on the player. The player enters standby mode and the power indicator lights up in red.

Then press **⏻/⏸** 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 **▶**.

To turn off the player

Press **⏻/⏸** on the remote. The player enters standby mode and the power indicator lights up in red.

To disconnect the power of the player, press **⏻** on the player.

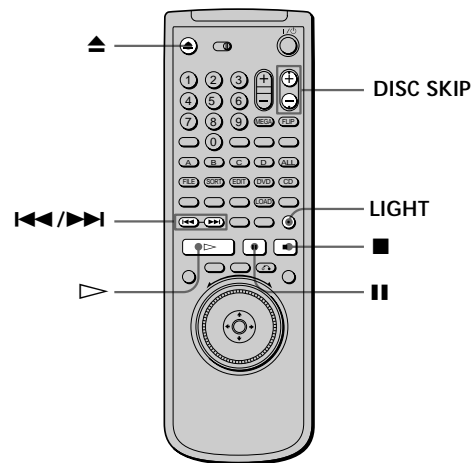
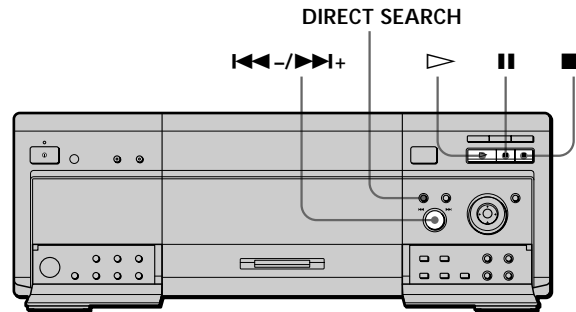
Notes on playing DTS sound tracks on a CD

- 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 43.) 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 67.)
- While playing a disc, do not turn off the player by pressing **⏻**. Doing so may cancel the settings of the menu. When you turn off the player, press **■** first to stop playback and then press **⏻/⏸** on the remote. After the power indicator lights up in red and the player enters standby mode, press **⏻** on the player.

Additional operations



To	Operation
Select a disc	<i>On the player:</i> Press DISC CHANGE to turn the indicator on. Then turn the ◀◀- / ▶▶+ dial until the desired disc number appears on the front panel display Press the ◀◀- / ▶▶+ dial to start playback
Skip empty disc slots while selecting a disc	Press DISC SKIP +/- on the remote
Stop	Press ■
Pause	Press
Resume play after pause	Press or ▷
Go to the next chapter, track or scene in continuous play mode	<i>On the player:</i> Press DIRECT SEARCH to turn it on and turn the ◀◀- / ▶▶+ dial clockwise <i>On the remote:</i> Press ▶▶
Go back to the preceding chapter, track or scene in continuous play mode	<i>On the player:</i> Press DIRECT SEARCH to turn it on and turn the ◀◀- / ▶▶+ dial counterclockwise <i>On the remote:</i> Press ◀◀
Stop play and remove the disc	<i>On the player:</i> Press OPEN/CLOSE, followed by ⏏EJECT <i>On the remote:</i> Press ▲, followed by ⏏EJECT on the player

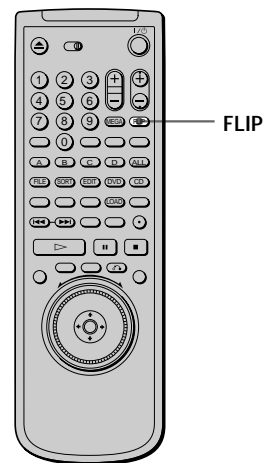
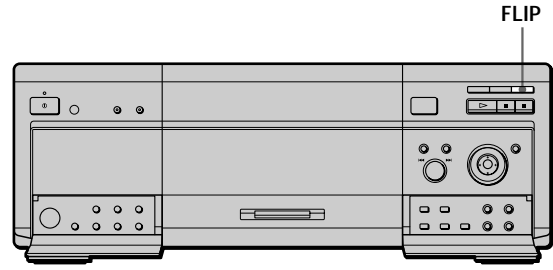
You can play discs in various modes such as Program Play using the on-screen menu (Control Menu). For Control Menu operations, see page 37.

To light up the buttons on the remote

When you press LIGHT on the remote, ▷, ■, || and DISPLAY light up. If you do not press any buttons for a short while, the buttons will automatically turn off. Note, however, that using the LIGHT function will shorten the battery life of the remote.

Playing Side B (FLIP)


You can play side B without ejecting the disc to turn it over.
“Side B” is the side facing right when you insert the disc into the slot.



While playing a disc, press FLIP.

While side B is being played,  appears on the TV.



 To return to side A
Press FLIP again.

Notes

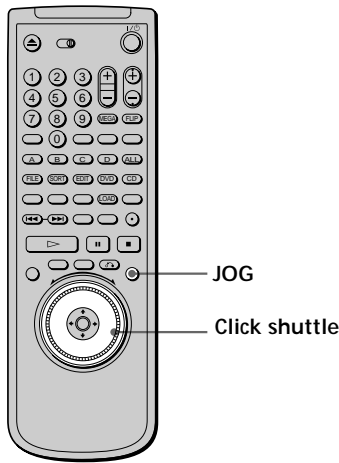
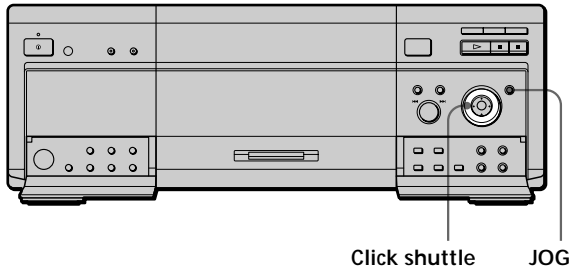
- Playback does not continue from side A to side B.
- Side B contents are not played even if you select the ALL DISCS mode.

- Program Play, Repeat Play, Bookmark, Disc Explorer, Custom Parental Control or Shuffle Play cannot be set with side B contents.
- Playback Memory settings are not effective for side B.
- When you flip the disc, Program Play, Repeat Play, and Shuffle Play settings for side A are cancelled.

Playing at Various Speeds/Frame by Frame



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.



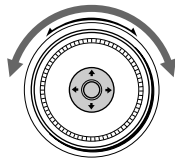
To change the playback speed (Shuttle mode)

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.

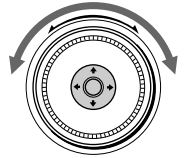
During pause

- 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)

- 1 Press JOG.
JOG lights up during jog mode. When you press JOG on the player, it pauses.
- 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

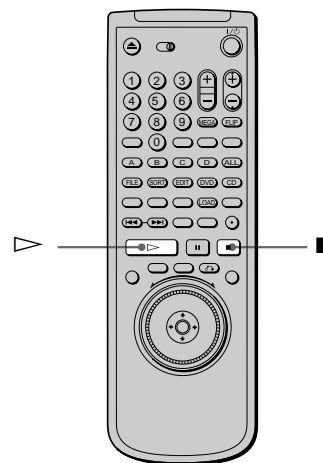
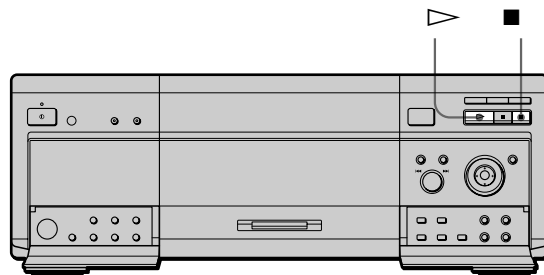
Press .



Notes

- The JOG indicator shows the mode of the corresponding click shuttle. For example, when the JOG indicator on the remote is not lit, the remote click shuttle will remain in the shuttle mode even if the indicator on the player is lit.
- If you don't operate the click shuttle for about 20 seconds after pressing JOG, it returns to shuttle mode. On the player, it stays in jog mode.



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

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. Resume Play will work even if the player enters standby mode by pressing  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 .

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

Notes

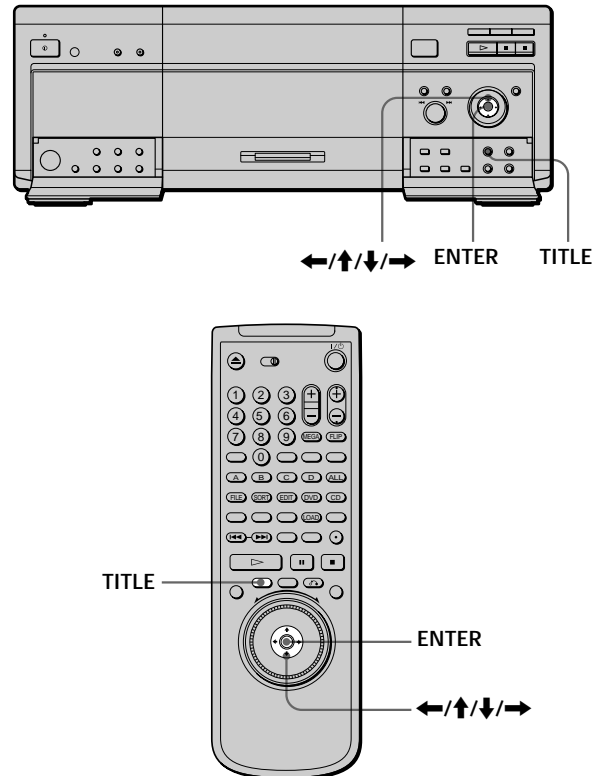
- Resume Play may not be available on some DVDs.
- Resume Play is not available in Shuffle or Program Play mode.
- Depending on where you stopped the disc, the player may resume playback from a different point.
- The point where you stopped playing is cleared when:
 - you open the front cover
 - you turn the power off by pressing $\text{\textcircled{O}}$ on the player
 - you change the play mode
 - you start playback after selecting a disc, title, chapter or track
 - you change the settings in the setup display
 - you load disc information by pressing LOAD
 - you press MEGA CONTROL (MEGA on the remote)
 - you use the DISC EXPLORER function

Using the DVD's Menu

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.



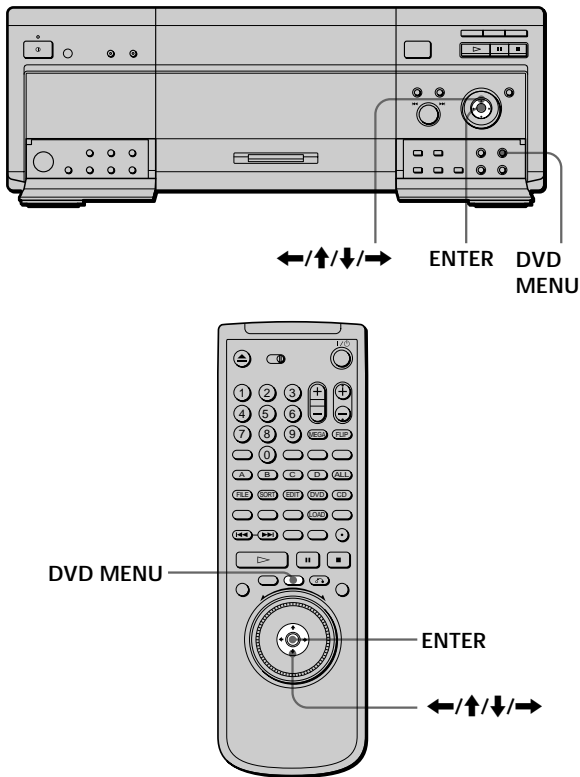
- 1 Press TITLE.**
The title menu appears on the TV screen. The contents of the menu vary from disc to disc.
- 2 Press $\leftarrow/\uparrow/\downarrow/\rightarrow$ to select the title you want to play.**
Depending on the disc, you can use the number buttons to select the title.
- 3 Press ENTER.**
The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



- 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.**

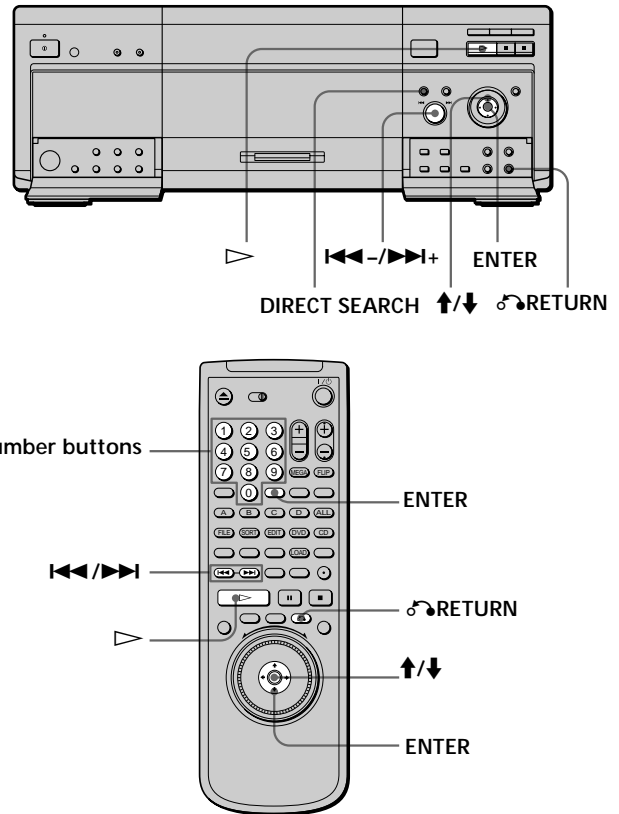
💡 If you want to select the language for the DVD menu Change the setting using "DVD MENU" in "LANGUAGE SETUP" in the setup display. For details, see page 66.

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)



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 ⏩ during PBC Playback. When you use the ◀◀-/▶▶+ dial on the player, press DIRECT SEARCH to turn it on.



- 1 Start playing a VIDEO CD with PBC functions by following Steps 1 to 4 in "Playing Discs" on page 19.**
- 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.**

Playing VIDEO CDs with PBC Functions (PBC Playback)

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.

To go back to the menu

Press RETURN, .

To cancel PBC playback of a VIDEO CD with PBC functions and play the disc in continuous play mode

There are two ways.

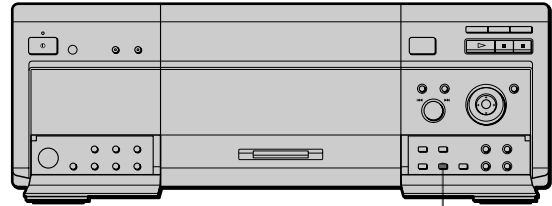
- Before you start playing, select the track you want using or , then press ENTER or .
 - Before you start playing, select the track number using the number buttons on the remote, then press ENTER or . "Play without PBC" appears on the TV screen and the player starts continuous play. You cannot play still pictures such as a menu.
- To return to PBC playback, press twice then press .

Note

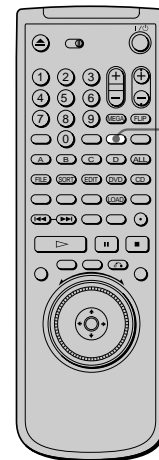
Depending on the VIDEO CD, "Press ENTER" in Step 3 may be expressed as "Press SELECT" in the instructions supplied with the disc. In this case, press .

Using the Front Panel Display

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



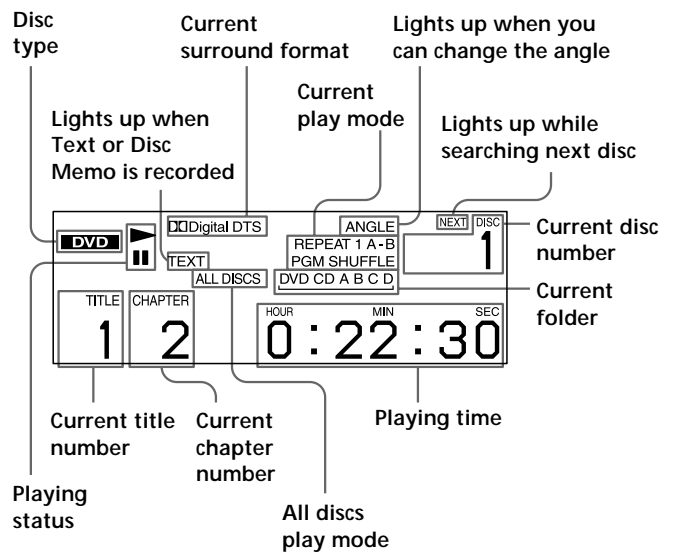
TIME/TEXT



TIME/TEXT

When playing back a DVD

Displaying information while playing the disc

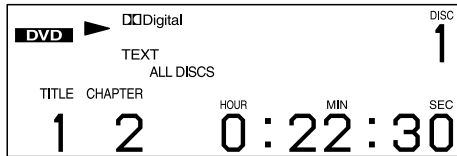


Checking the remaining time

Press TIME/TEXT.

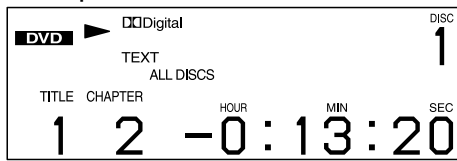
Each time you press TIME/TEXT while playing the disc, the display changes as shown in the following chart.

Playing time and number of the current chapter



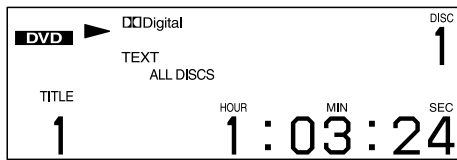
Press TIME/TEXT

Remaining time of the current chapter



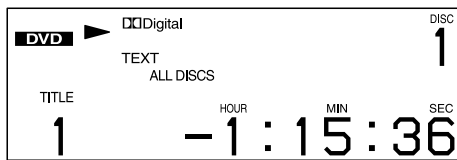
Press TIME/TEXT

Playing time and number of the current title



Press TIME/TEXT

Remaining time of the current title



Press TIME/TEXT

Text or Disc Memo

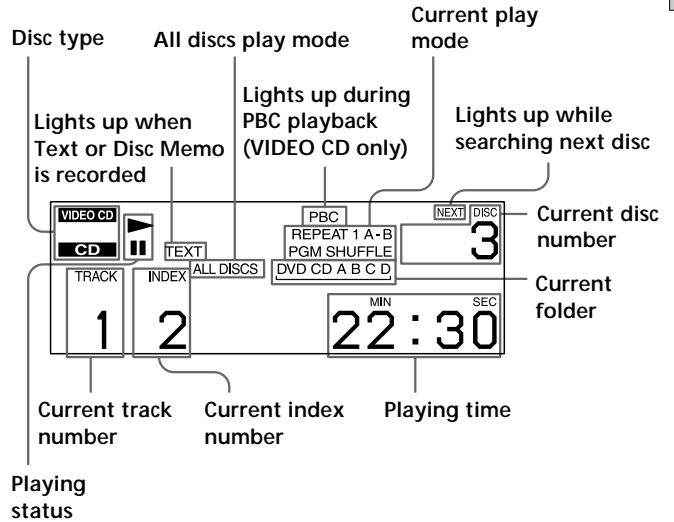


Press TIME/TEXT

When playing back a CD/VIDEO CD



Displaying information while playing a disc



💡 When playing VIDEO CDs with PBC functions

The current scene number is displayed instead of the current track number and the current index number. In this case, the front panel display does not change when you press TIME/TEXT. If TEXT is recorded on the disc, the front panel display changes to the Text display when you press TIME/TEXT (see page 43).

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.

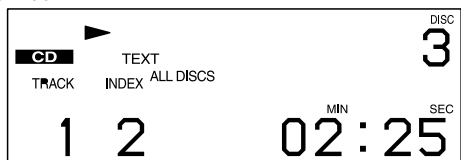
Using the Front Panel Display

Checking the remaining time

Press TIME/TEXT.

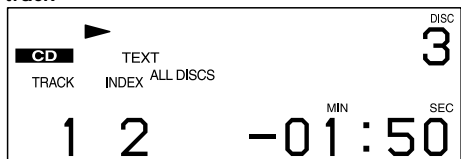
Each time you press TIME/TEXT while playing a disc, the display changes as shown in the following chart.

Playing time and current track number



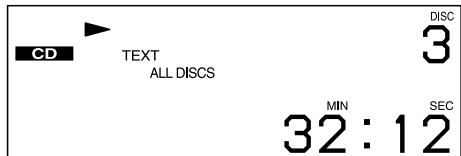
Press TIME/TEXT

Remaining time of the current track



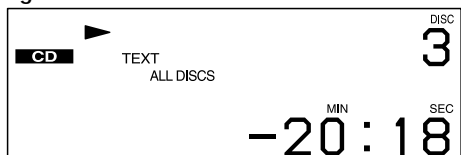
Press TIME/TEXT

Playing time of the disc



Press TIME/TEXT

Remaining time of the disc



Press TIME/TEXT

Text or Disc Memo



Press TIME/TEXT

Note

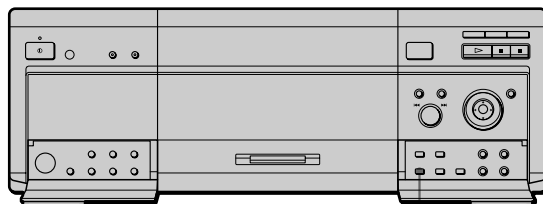
While you are doing Shuffle Play, or Program Play, the playing time of the disc and the remaining time of the disc are not displayed.

Displaying the Disc Information (Disc Explorer)



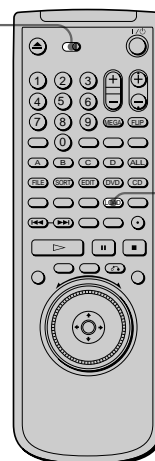
You can check the contents of each disc loaded into the player.

Loading the disc information



LOAD

Set the TV/DISC EXPLORER/DVD switch to DISC EXPLORER.



LOAD

On the player:

Press LOAD when the player is in stop or standby mode.

On the remote:

1 Set the TV/DISC EXPLORER/DVD switch to DISC EXPLORER.

2 Press LOAD 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 ■.

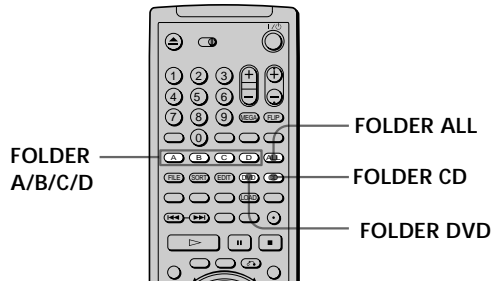
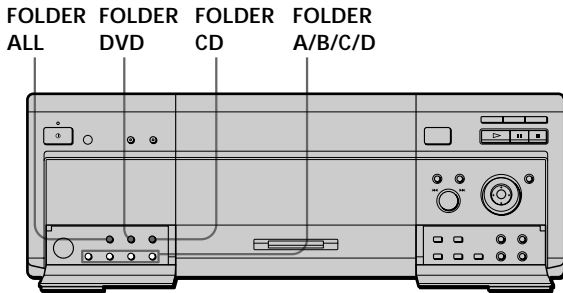
The player can load the disc information even when the power is in standby mode

Press LOAD before turning on the player. The player reads and loads all the disc information. After loading is complete, the player returns to the standby mode.

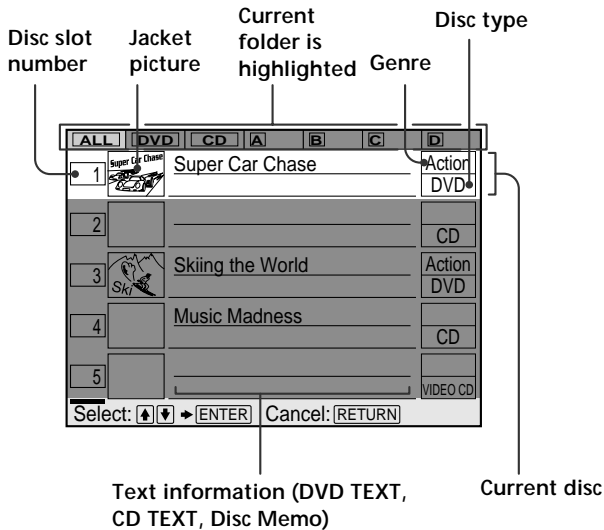
Displaying the information of the loaded discs

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

The player has 7 folders (ALL, DVD, CD, A to D) and can display the Disc Explorer of each folder.
 All the discs in the player are filed in the "ALL" folder. At the same time, DVDs are automatically filed in the "DVD" folder, and CDs and VIDEO CDs are in the "CD" folder. You can file your discs as you like in the A to D folders. See "Filing Discs in the Folder" (page 30).



Press the folder button (FOLDER ALL/DVD/CD/A/B/C/D) of the desired folder in stop mode.
 The Disc Explorer of the selected folder appears.



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 32).

Genre

You can select the genre of the disc yourself (page 34).

Disc type

The disc type appears automatically. "?" appears when the player has not loaded the disc information in the memory. If the selected slot does not contain a disc, the text information row is blank.

Selecting the disc on the Disc Explorer

- 1 Select the folder using the FOLDER buttons.
 The Disc Explorer of the selected folder appears.
- 2 Select the disc by one of the following operations.
 - pressing /
 - pressing the number buttons and ENTER
 - pressing DISC CHANGE to turn the indicator on, followed by turning the - / + dial and then pressing it
 - pressing DISC SKIP +/- on the remote
- 3 Press ENTER.
 The Disc Explorer disappears and playback starts.

To cancel using the Disc Explorer

Press RETURN.

Displaying the Disc Information (Disc Explorer)

Notes

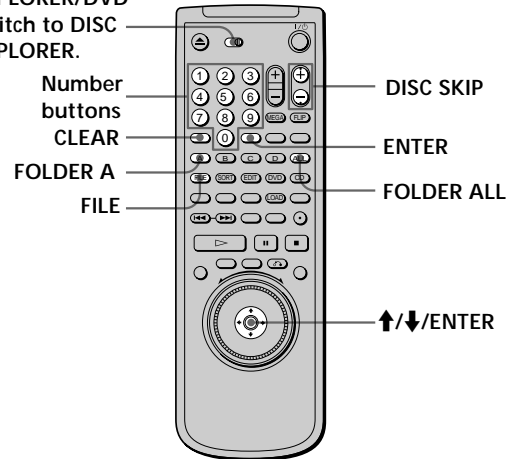
- If you press a FOLDER button during playback, the playback stops and the Disc Explorer appears. In this case, the Resume Play is not available.
- Even if you have removed the disc from the player, the disc information of the disc remains on the Disc Explorer until you load the disc information again by pressing LOAD or place a new disc in the same slot and play it.
- If you have inserted a disc whose disc information has not been loaded yet, you cannot select and play the disc on the Disc Explorer. The player skips the disc whose disc information differs from the loaded disc information, and plays the next loaded disc.
- If you load or try to play an empty slot, it appears as a 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.
- 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.

Filing Discs in the Folder (Disc Explorer - File Mode)



You can file your discs as you like in four individual folders, A to D. Even if you file discs from Folder ALL, DVD or CD to Folder A to D, those discs are not deleted from Folder ALL, DVD or CD. You can file up to 301 discs in one folder, and the same disc in different folders. If you file your favorite discs in a folder (A to D), you can play only those discs, or set Program Play, Shuffle Play and Repeat Play for the discs within the folder.

Set the TV/DISC EXPLORER/DVD switch to DISC EXPLORER.



For example, to file DVDs in the no. 1 and no. 3 slots to Folder A

1 Press FOLDER ALL.

The Disc Explorer of Folder ALL appears. You can also press FOLDER DVD to select a DVD.

ALL	DVD	CD	A	B	C	D
1						
	Super Car Chase					Action DVD
2						
						Classical CD
3						
	Skiing the World					Action DVD
4						
	Music Madness					CD
5						
						VIDEO CD

Select: + ENTER Cancel: RETURN

2 Press FILE to enter the file mode.

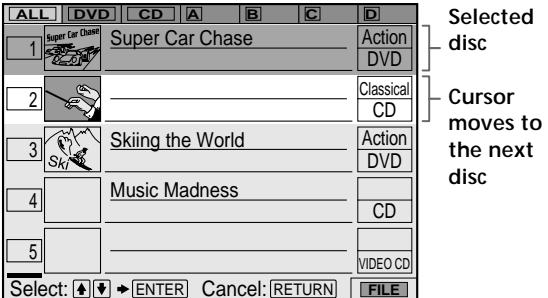
"FILE" appears at the right bottom corner.

ALL	DVD	CD	A	B	C	D
1						
	Super Car Chase					Action DVD
2						
						Classical CD
3						
	Skiing the World					Action DVD
4						
	Music Madness					CD
5						
						VIDEO CD

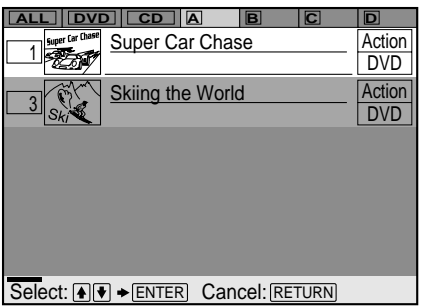
Select: + ENTER Cancel: RETURN **FILE**

3 Select the disc using the number buttons, then press ENTER.
 You can also use \uparrow/\downarrow , DISC SKIP +/- on the remote.
 Or, you can press the DISC CHANGE button followed by turning and pressing the $\lll-/\ggg+$ dial.

4 Press ENTER.
 To file more than one disc repeat Steps 3 and 4.



5 Press FOLDER A.
 "FILE" disappears from the Disc Explorer. Then the Disc Explorer for Folder A containing the selected discs appears.



To cancel the file mode

Press \hookrightarrow RETURN. "FILE" disappears from the Disc Explorer.

You can sort the discs by genre or text information
 The discs are listed first by slot number in the Disc Explorer. You can then sort the discs by desired genre or text and store them (page 35).

Note

Do not turn off the player by pressing \odot . Doing so may cancel the settings. When you turn off the player, press \blacksquare first to stop playback and then press I/\odot on the remote. After the power indicator lights up in red and the player enters standby mode, press \odot on the player.

Deleting discs from a folder

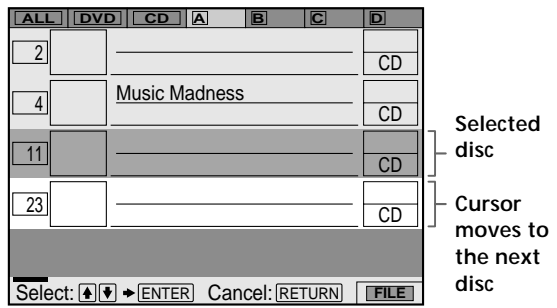
You can delete unnecessary discs from Folder A to D. You cannot delete discs from Folder ALL, DVD or CD unless you remove the disc from the player.

1 Press the FOLDER (A/B/C/D) button of the disc you want to delete.
 The Disc Explorer of the selected folder appears.

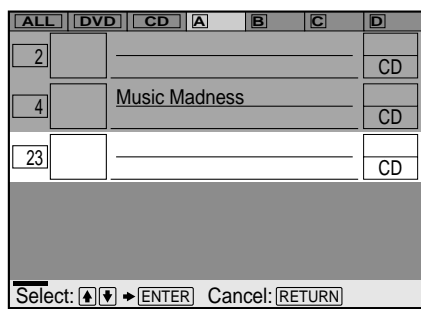
2 Press FILE to enter the file mode.
 "FILE" appears at the right bottom corner.

3 Select the disc using the number buttons, then press ENTER.
 You can also use \uparrow/\downarrow , DISC SKIP +/- on the remote.
 Or, you can press the DISC CHANGE button followed by turning and pressing the $\lll-/\ggg+$ dial.

4 Press ENTER.
 To delete other discs, repeat Steps 3 and 4.



5 Press CLEAR.
 The disc disappears from the folder. "FILE" disappears from the Disc Explorer.



To cancel the file mode

Press \hookrightarrow RETURN. "FILE" disappears from the Disc Explorer.

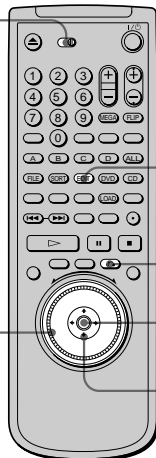
Labeling Discs and Folders (Disc Explorer - Edit Mode)



You can label the disc with a personal title of 16 characters (Disc Memo) when DVD TEXT or CD TEXT is not recorded on the disc, and the folders A through D with a title of 3 characters.

The Disc Memo can be anything you like, such as a title, musician's name, category or date of purchase. You can also assign a genre label to the disc. This will help you keep your discs organized.

Set the TV/DISC EXPLORER/DVD switch to DISC EXPLORER.



EDIT
RETURN
ENTER
←/↑/↓/→

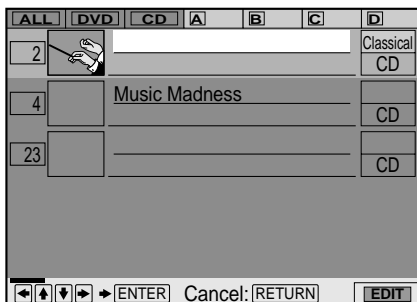
Labeling a disc or folder

- 1 Select the disc or folder you want to label.

To label a disc:

Select the disc on the Disc Explorer, then press EDIT to enter the edit mode.

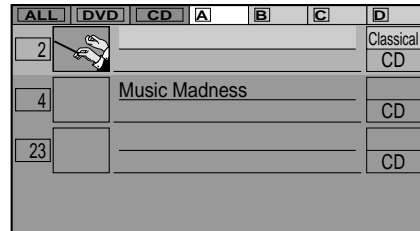
The selected disc's text only is highlighted and "EDIT" appears at the right bottom corner.



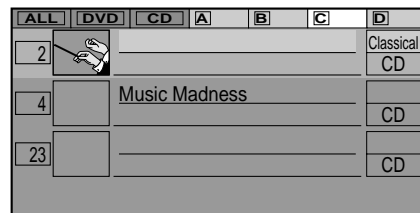
To label a folder:

- 1 Press EDIT to enter the edit mode.
- 2 Press ↑.

The folder A is highlighted.



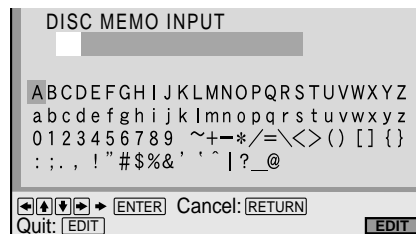
- 3 Select the folder you want to label by pressing ←/→.



- 2 Press ENTER.

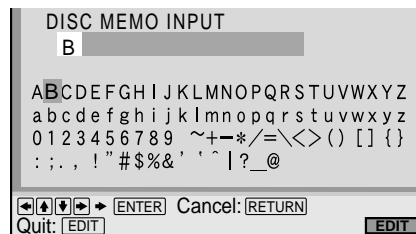
The DISC MEMO INPUT display appears when you have selected a disc.

The FOLDER NAME INPUT display appears when you have selected a folder.



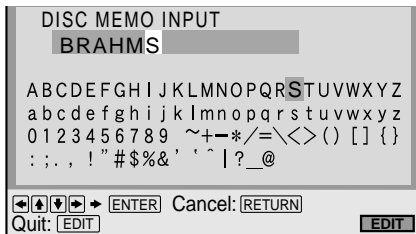
- 3 Select a character by pressing ←/↑/↓/→ or by turning the click shuttle.

The selected character changes color.



- 4 Press ENTER.

5 Repeat Steps 3 and 4 to input other characters.



6 When you have entered all the characters for the Disc Memo or folder name, press EDIT.

The DISC MEMO INPUT display or the FOLDER NAME INPUT display disappears and the Disc Memo or folder name is stored.



To cancel the edit mode

Press \rightarrow RETURN. "EDIT" disappears from the Disc Explorer.

To correct the characters

You can correct the characters using the \leftarrow/\rightarrow dial on the player or \leftarrow/\rightarrow on the remote. To use the \leftarrow/\rightarrow dial, press DIRECT SEARCH to turn it on.

- To erase the characters:
 - 1 Move the cursor to the character you want to erase by pressing \leftarrow or \rightarrow or by turning the \leftarrow/\rightarrow dial.
 - 2 Press CLEAR.
- To insert or overwrite the characters:
 - 1 Move the cursor to the character you want to correct by pressing \leftarrow or \rightarrow .
 - 2 Select the correct character by pressing $\leftarrow/\uparrow/\downarrow/\rightarrow$ or by turning the click shuttle.
 - 3 To insert the character, press ENTER. To overwrite, don't press ENTER but move the cursor by pressing \rightarrow or by turning the \leftarrow/\rightarrow dial clockwise.

Notes

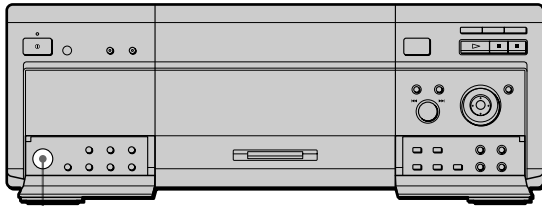
- Do not turn off the player by pressing O . Doing so may cancel the settings. When you turn off the player, press \blacksquare first to stop playback and then press I/ O on the remote. After the power indicator lights up in red and the player enters standby mode, press O on the player.
- You can label up to 301 discs. When you have the player store a new disc in memory, the data for the old disc is erased.
- Even if you have removed the disc from the player, the disc information of the disc remains on the Disc Explorer until you load the disc information again by pressing LOAD or place a new disc in the same slot and play it.

Labeling Discs and Folders (Disc Explorer - Edit Mode)

Labeling the disc or folder using a keyboard

To label the disc or folder, you can use an IBM compatible PC keyboard of the USA model* (not supplied) on the DISC MEMO INPUT or FOLDER NAME INPUT display.

* Power consumption must be 120 mA or less.

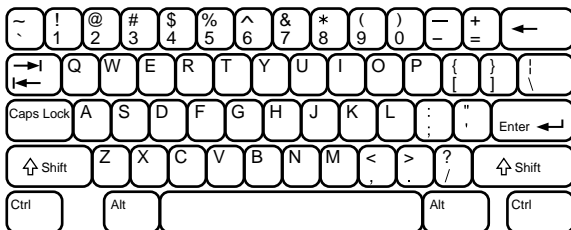


KEYBOARD jack

- 1 Connect a keyboard to the KEYBOARD jack on the front panel when the power of the player is not on.
- 2 Turn on the player.
- 3 Do Steps 1 and 2 of "Labeling a disc or folder" to display the DISC MEMO INPUT or FOLDER NAME INPUT display.
- 4 Input the characters on the keyboard.
- 5 Press ENTER on the keyboard to store the Disc Memo or folder name.
The DISC MEMO INPUT display or the FOLDER NAME INPUT display disappears and the Disc Memo or folder name is stored.

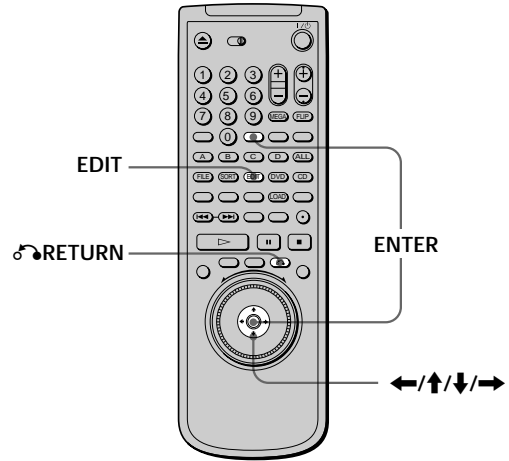
Notes

- If the cursor keys do not work correctly and you cannot complete the task using the keyboard, disconnect the keyboard then reconnect it to the player and try again.
- If the keyboard is not the USA model, the characters may be input differently from those on the keys.
The USA keyboard layout is shown below.



Selecting a genre

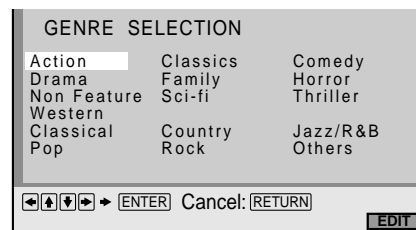
You can assign a genre to your disc.



- 1 Select the disc on the Disc Explorer using \uparrow/\downarrow .
- 2 Press EDIT to enter the edit mode.
The selected disc's text only is highlighted and "EDIT" appears at the right bottom corner.

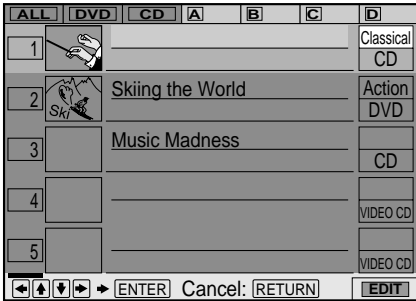


- 3 Press \rightarrow , then ENTER.
The GENRE SELECTION display appears.

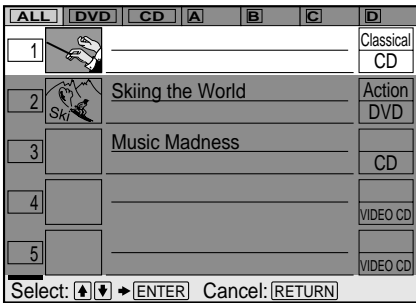


- 4 Select the genre using ←/↑/↓/→, then press ENTER.

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.



- 5 Press ↵RETURN to return to the original Disc Explorer display.



To cancel the edit mode

Press ↵RETURN. "EDIT" disappears from the Disc Explorer.

Sorting Discs (Disc Explorer - Sort Mode)

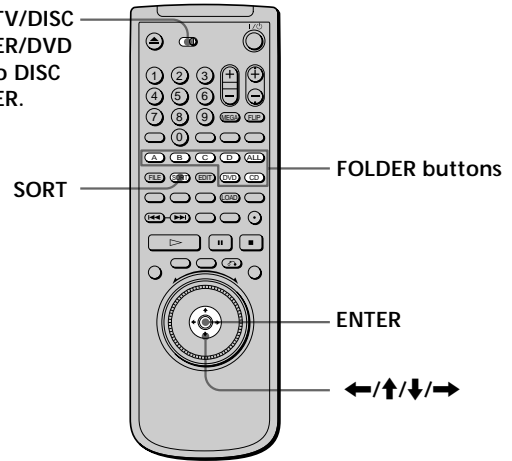


You can sort the discs in the folder by disc slot number, text information (DVD TEXT/CD TEXT/Disc Memo) or genre.

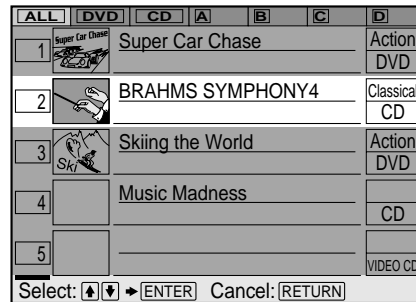
The text information is sorted alphabetically.

In case of the genre, the selected genre comes first.

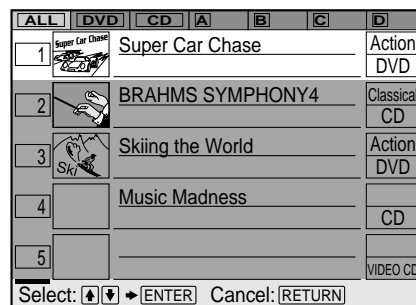
Set the TV/DISC EXPLORER/DVD switch to DISC EXPLORER.



- 1 Select the folder you want to sort using the FOLDER buttons.

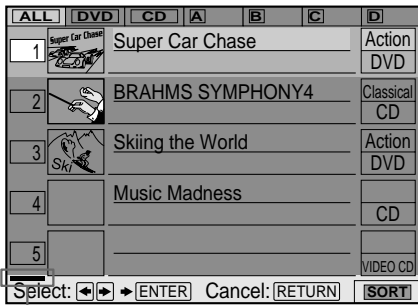


- 2 If you want to sort by text information or genre, select the disc which has the desired text information or the genre by pressing ↑/↓.



Sorting Discs (Disc Explorer - Sort Mode)

- Press SORT to enter the sort mode.
The selected disc only is highlighted and "SORT" appears at the right bottom corner.



Sorting item indicator (green)

- Select the item you want to sort by pressing **←/→**.
You can select the disc number, text information or genre. The sorting item indicator moves to the selected item.



Sorting item indicator position when you sort by genre

- Press ENTER.
The discs are sorted and re-displayed. The sorted order remains even if the power of the player is turned off.



- The disc order in the same genre
The discs in the same genre are sorted by numerical order of the disc slot number.

Note

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.

To cancel the sort mode

Press **↵** RETURN. "SORT" disappears from the Disc Explorer.

Using Various Functions with the Control Menu

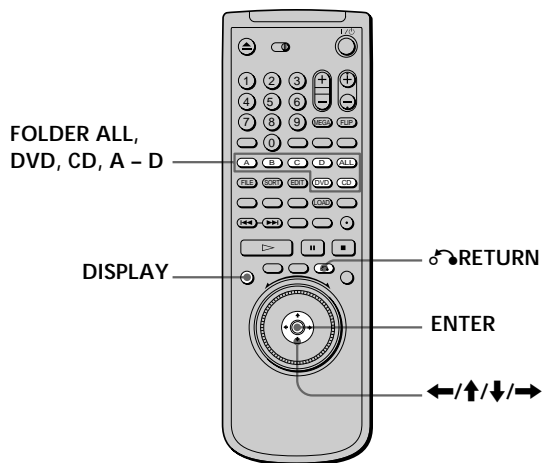
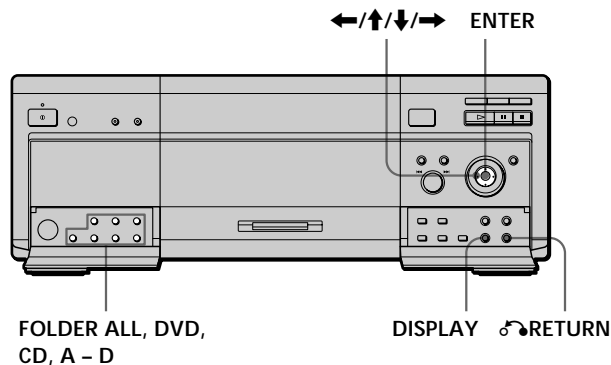
This chapter describes how to play discs in various modes and how to use the convenient features of the on-screen menu (Control Menu).

Using the Control Menu Display

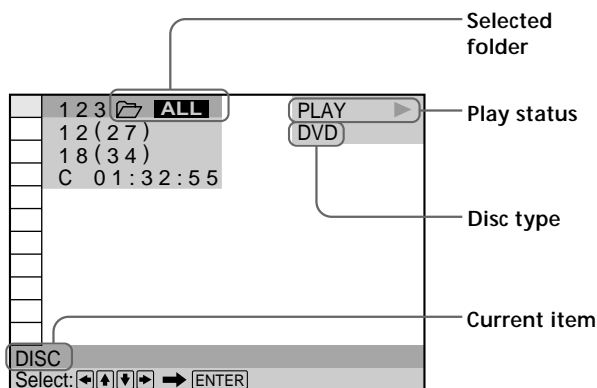
Using the Control Menu display, you can select the starting point, play scenes in any order you like, change the viewing angles, make Digital Cinema Sound settings, and other such operations.

The possible operations are different depending on the kind of disc.

For details on each Control Menu display item, see pages 39 to 62.

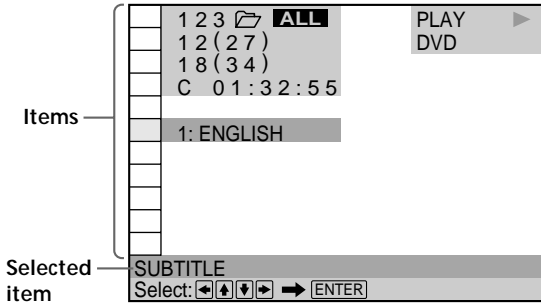


- 1 Select the desired folder.
- 2 Press DISPLAY to show the Control Menu display on the TV screen.

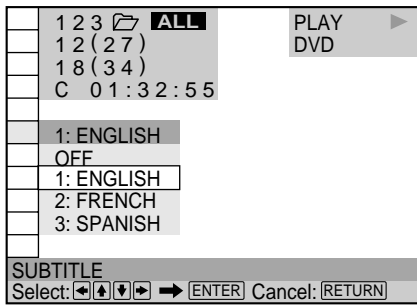


Using the Control Menu Display

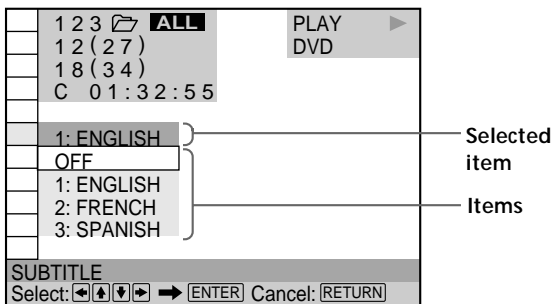
3 Select the item you want using \uparrow/\downarrow .



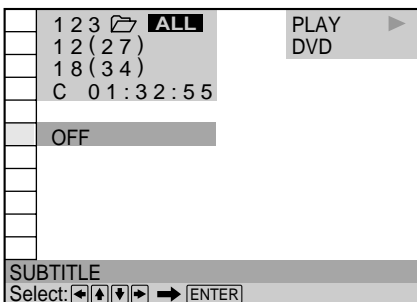
4 Press ENTER.



5 Select the item you want using \uparrow/\downarrow .



6 Press ENTER.

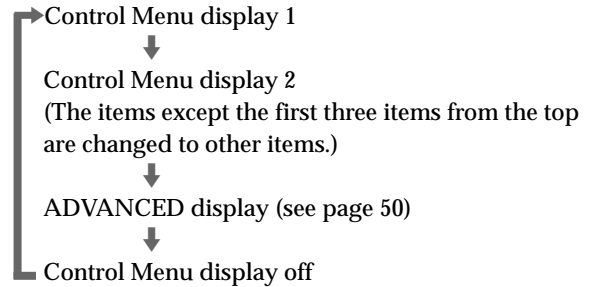


To cancel while making a selection

Press \rightarrow RETURN.

To display other items

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



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 90 to 93.

Note

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

Control Menu Item List

 **DISC (page 40)**

 **TITLE (DVD only) (page 40)/
SCENE (VIDEO CD during PBC playback
only) (page 40)/**

TRACK (VIDEO CD only) (page 40)

 **CHAPTER (DVD only) (page 40)/**

INDEX (VIDEO CD only) (page 40)

 **TRACK (CD only) (page 40)**

 **INDEX (CD only) (page 40)**

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 41, 42, 43)**

 **TIME/TEXT (pages 41, 42, 43)**

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.

 **AUDIO (page 43)**

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 45)**

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 46)**


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

 **VIRTUAL 3D SURROUND (page 47)**

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 50)**

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

 **CUSTOM PARENTAL CONTROL (page 51)**

Using a registered password, you can set playback restrictions for a desired disc.

The same password is used for both Parental Control (page 69) and Custom Parental Control.

 **SETUP (page 63)**

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 63.

 **1/ALL DISCS (page 53)**

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

 **PROGRAM (page 53)**

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 56)**

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.

Control Menu Item List

REPEAT (page 57)

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 58)

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

VIDEO EQUALIZER (DVD, VIDEO CD only) (page 59)

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 60)

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

VIEWER (DVD, VIDEO CD only) (page 61)

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

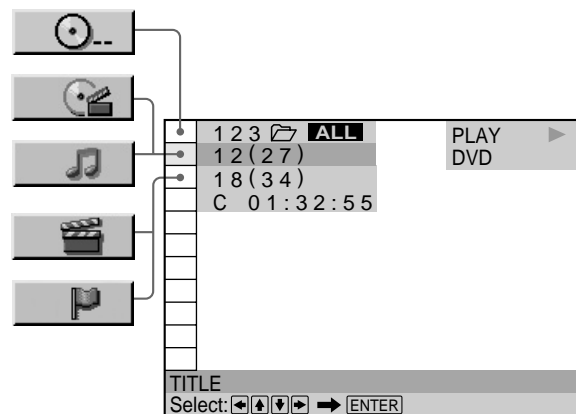
Searching for a Disc/Title/Chapter/Track/Index/Scene



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

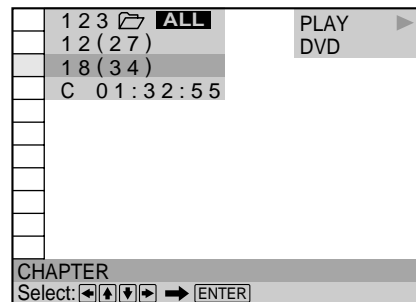
Select "DISC," "TITLE," "CHAPTER," "TRACK," "INDEX" or "SCENE" after pressing DISPLAY. When you play back a DVD, "TITLE" and "CHAPTER" are displayed.

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 \uparrow/\downarrow .

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

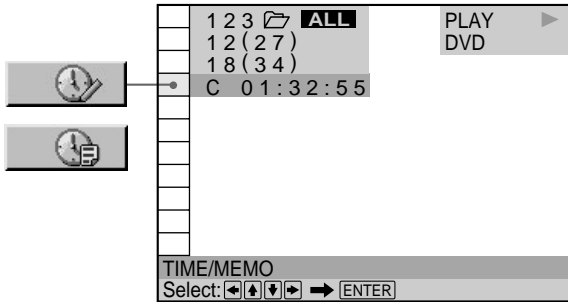


Selecting a Starting Point Using the Time Code

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.



- 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.

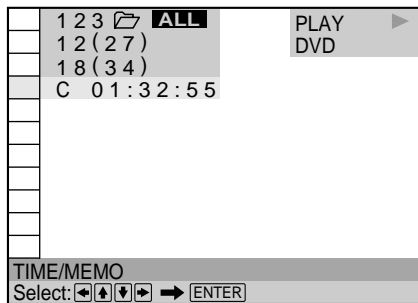
To cancel while making a selection


Press  RETURN.

Note

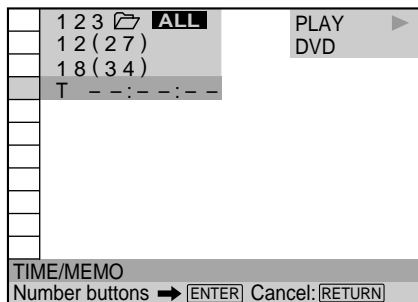
When you input the time code, input the playing time of the title, not the chapter or track time.

- 1 Select "C * * : * * : * * " (playing time of the current chapter) when playing a DVD.



- 2 Press  or ENTER.

Time code changes to "T - - : - - : - -."



Viewing the Disc Information

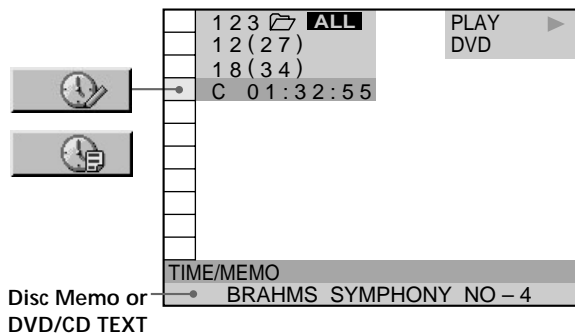


You can check the DVD TEXT, CD TEXT or Disc Memo on the TV screen and the front panel display.

Press DISPLAY. Then press TIME/TEXT until DVD/CD TEXT is displayed. DVD TEXT and CD TEXT are information recorded on the disc which you cannot change.

The information is displayed at the bottom of the display. If you entered a Disc Memo in Edit mode of the Disc Explorer function, the Disc Memo will appear at the bottom of the display instead.

If the disc does not contain a label, "NO TEXT" is displayed.



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

💡 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.

💡 You can input the text information (Disc Memo). You can input the Disc Memo on the Disc Explorer (see page 32).

Notes

- "NO TEXT" appears when the DVD/CD TEXT is not recorded on the disc.
- This player can only display the first level of DVD/CD TEXT information.

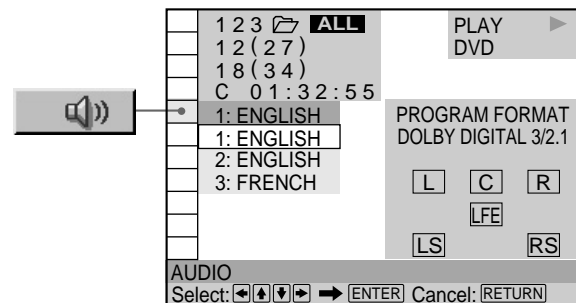
Changing the Sound



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.



■ 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 89.


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)

Changing the Sound

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

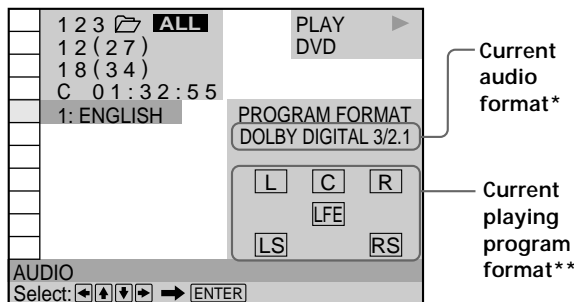
Notes

- 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 the front cover
 - the player enters standby mode by pressing I/⏻ on the remote
 - you turn the power off by pressing ⏻ on the player
- While playing the DVD, the sound may be changed when:
 - you open the front cover
 - you change the title

Displaying the audio information of the disc

When you select "AUDIO," the channels being played are displayed on the screen.

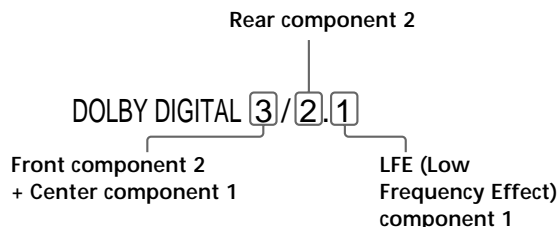
For example, in Dolby Digital format, multiple signals ranging from monaural to 5.1 channel signals can be recorded on a DVD. Depending on the DVD, the number of the recorded channels may be different.



Current audio format*
Current playing program format**

* "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:



** The letters in the program format display mean the following:

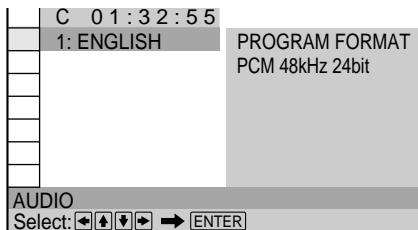
- L: Front (left)
- R: Front (right)
- C: Center (monaural)
- LS: Rear (left)
- RS: Rear (right)
- S: Rear (monaural) – the rear component of the Dolby Surround processed stereo signal and the Dolby Digital signal.
- LFE: LFE (Low Frequency Effect)

Displaying the Subtitles

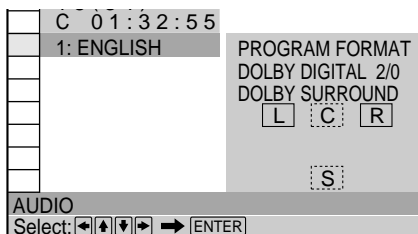
DVD

The display examples are as follows:

•PCM (stereo)

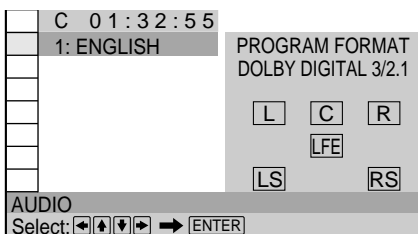


•Dolby Surround



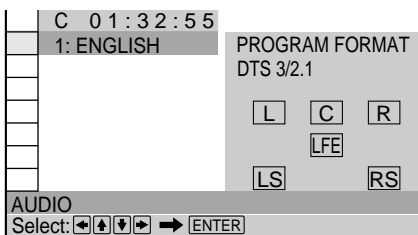
•Dolby Digital 5.1ch

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.



•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.



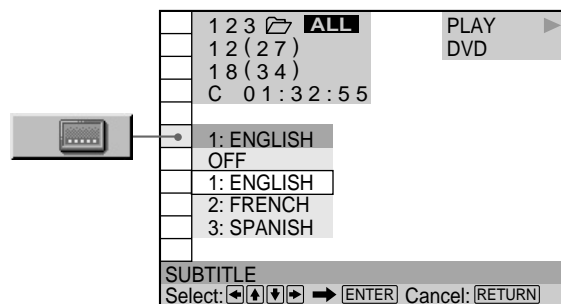
Note

When the signal contains rear signal components such as LS, RS or S, the Virtual 3D Surround effect is enhanced (page 47).

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.



■ 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 89.

 You can select "SUBTITLE" directly

Press SUBTITLE on the remote. Each time you press the button, the item changes.

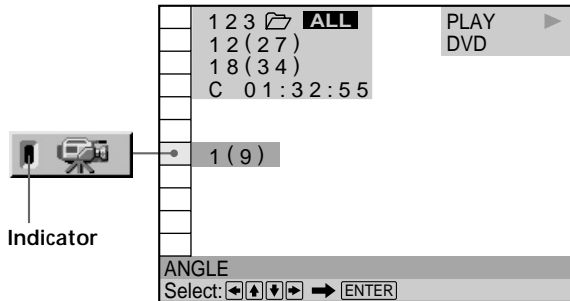
Notes

- 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 the front cover
 - you change the title

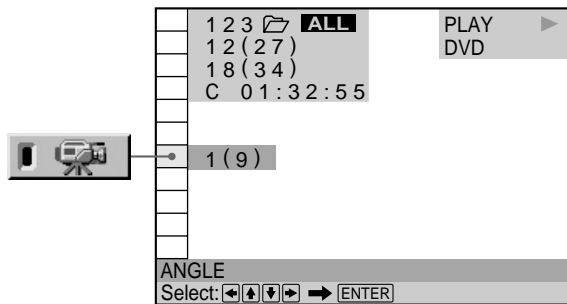
Changing the Angles DVD

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

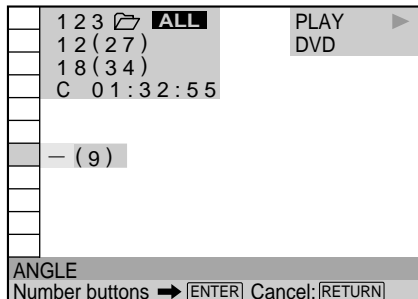


1 Select "ANGLE."



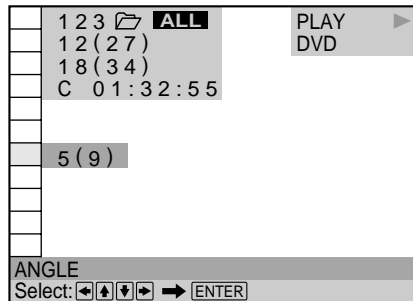
2 Press →.

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 61.

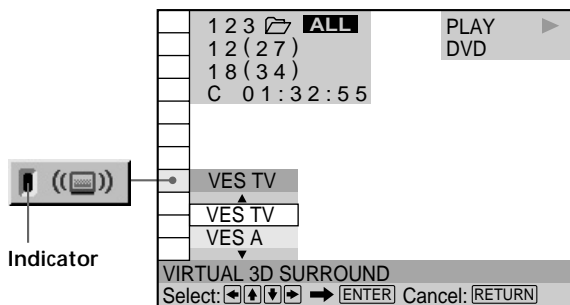
Notes

- 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.

Digital Cinema Sound Settings DVD VIDEO CD 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.

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



■ 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

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 5.1 CH OUTPUT connectors, correctly set each speaker position and distance. For details on setting each speaker, see page 75.

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.



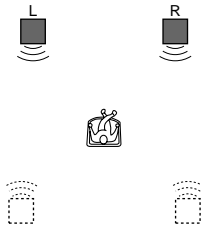
VES (Virtual Enhanced Surround) A

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.



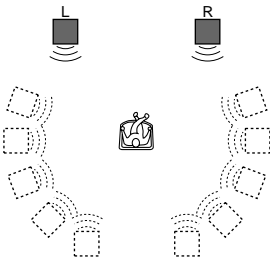
VES (Virtual Enhanced Surround) B

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

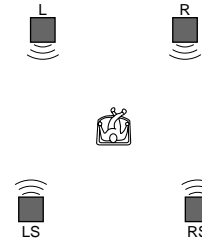
When you connect 2 front speakers and 2 rear speakers, you can enjoy Dolby Surround (Pro Logic) sounds, or use 3D sound imaging to shift the sound of the rear speakers away from the actual speaker position or create entire sets of virtual rear speakers from 1 set of actual rear speakers. Select one of 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.

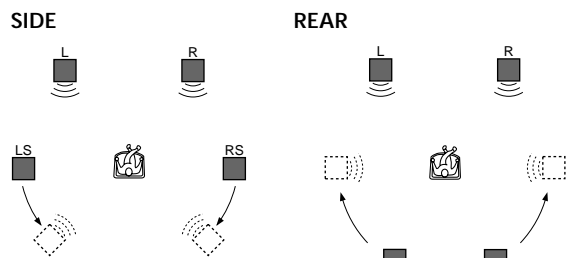


ENHANCED SURROUND

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.

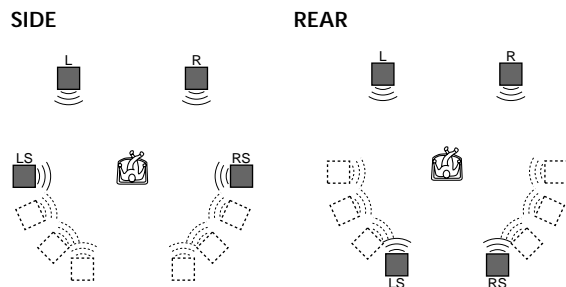
VIRTUAL REAR SHIFT

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 position differs according to the setting of the rear speaker position (page 75).



VIRTUAL MULTI REAR

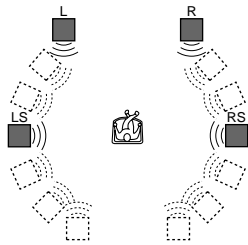
Uses 3D sound imaging to create an array of virtual rear speakers from a single pair of actual rear speakers. The virtual speakers are reproduced as shown in the illustration below. The position of the virtual rear speakers differs according to the setting of the rear speaker position (page 75).



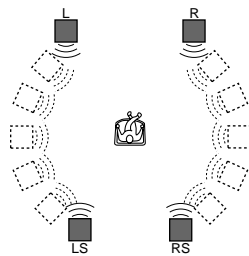
VIRTUAL MULTI DIMENSION

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 75).


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

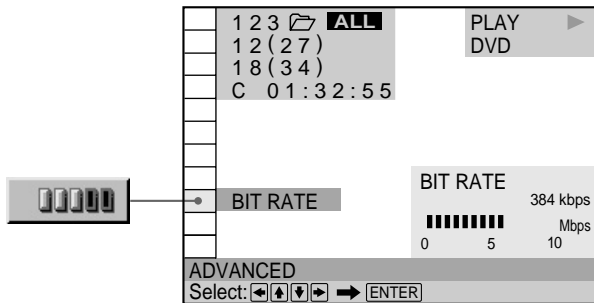
- When you select an item, the sound cuts off for a moment.
- When the playing signal does not contain a signal for the rear speakers, the 3D surround effects may be difficult to hear.
- When you connect a center speaker and a subwoofer, you can also hear the sound from the center speaker and the subwoofer. 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.

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.



■ ADVANCED

The default setting is underlined.

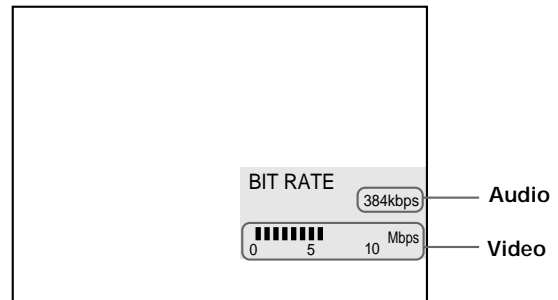
When playing a DVD

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

Displays of each item

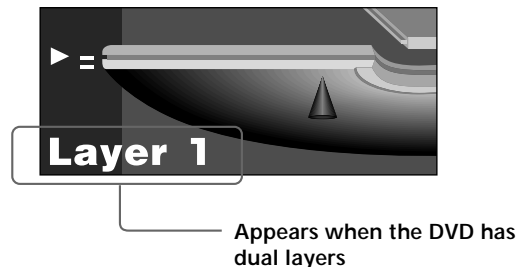
By pressing DISPLAY repeatedly, you can display either "BIT RATE" or "LAYER," whichever was selected in "ADVANCED."

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



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 87 (DVD).

Locking Discs (Custom Parental Control)

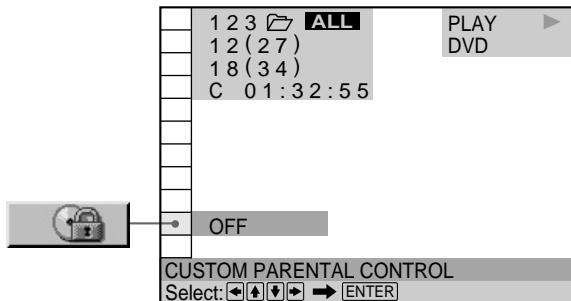


Using a registered password, you can set playback restrictions for the desired disc(s).

You can set the same Custom Parental Control password for up to 301 slots. When you have the player store a new disc in memory, the data for the old disc is erased.

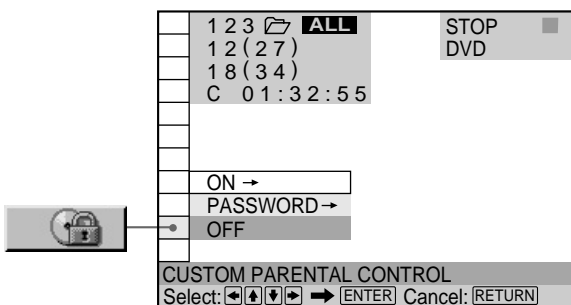
The same password is used for both Parental Control (page 69) and Custom Parental Control.

Select "CUSTOM PARENTAL CONTROL" after pressing DISPLAY.



Setting the Custom Parental Control for a disc

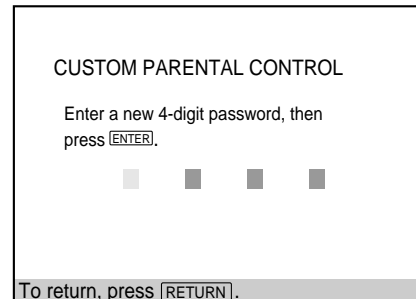
- 1 Select the disc you want to lock.
If a disc is playing, press ■ to stop playback.
- 2 Select "CUSTOM PARENTAL CONTROL" using ↑/↓, then press ENTER.



- 3 Select "ON→" using ↑/↓, then press ENTER.

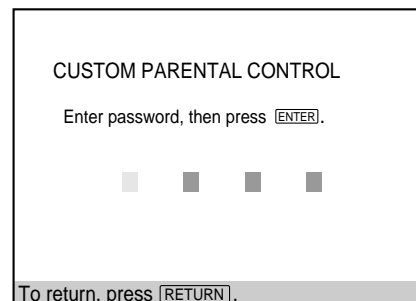
■ If you have not entered a password

The display for entering a password appears.



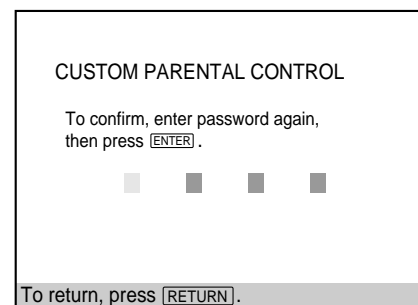
■ When you have already registered a password

The display for confirming the password appears. Skip Step 4.



- 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.



- 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.

Locking Discs (Custom Parental Control)

To return to the normal screen

Press **↵** RETURN.

To turn off the Custom Parental Control function

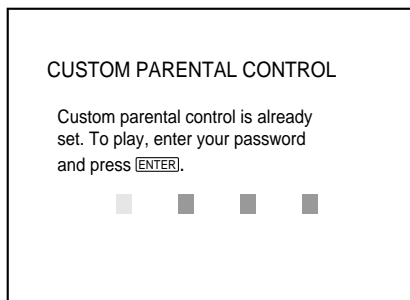
- 1 Select the disc for which you want to turn off the Custom Parental Control function.
- 2 Select "CUSTOM PARENTAL CONTROL" using **↑/↓**, then press ENTER.
- 3 Select "OFF→" using **↑/↓**, then press ENTER.
- 4 Enter your 4-digit password using the number buttons, then press ENTER.

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 Select the disc.
The CUSTOM PARENTAL CONTROL display appears.



- 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 OPEN/CLOSE and remove the disc.

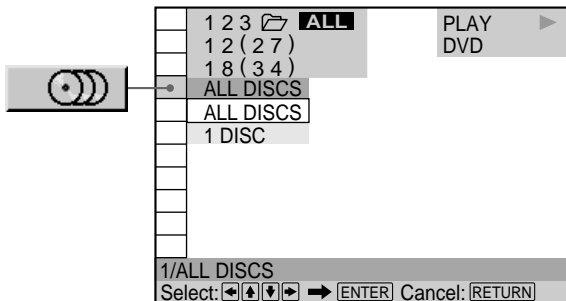
Selecting the Disc Mode (1 Disc or All Discs)



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/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

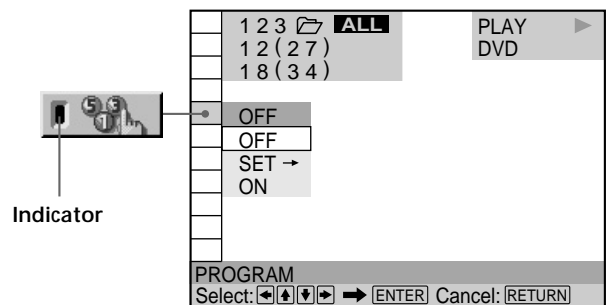
Press 1/ALL DISCS on the remote or the player. Each time you press the button, 1 DISC or ALL DISCS mode is selected.

Creating Your Own Program (Program Play)



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) 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.



■ PROGRAM

The default setting is underlined.

- OFF: plays normally.
- SET ->: allows you to create your own program.
- ON: plays Program Play.

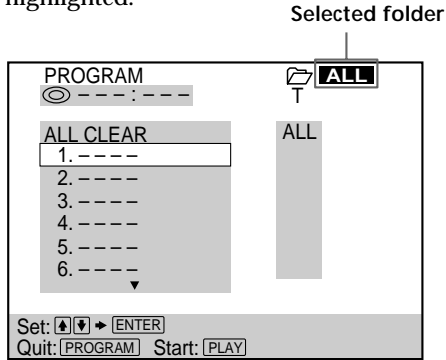
Note

If the program contains a disc which is not included in the current folder, the disc will not be played during Program Play. To play all the discs in the program select the ALL folder before you start Program Play.

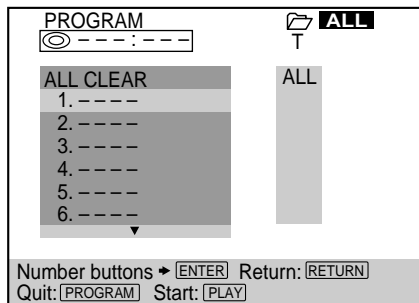
Creating Your Own Program (Program Play)

Creating the program

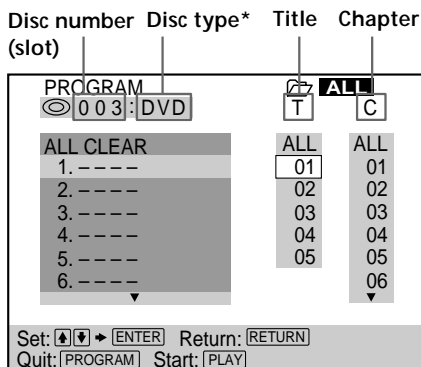
- 1 Select "SET→" in "PROGRAM."
The programming display appears and "1" is highlighted.



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



- 3 Select the disc you want to program using the number buttons or ↑/↓, then press ENTER.
To select the EASY PLAY disc, press 301. "EZ" appears at the disc number.

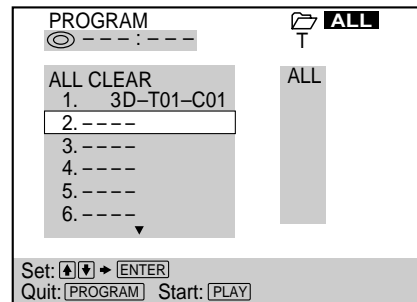
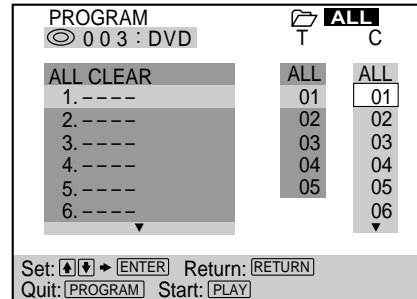


* "?" appears when the player has not loaded the disc information in the memory. If an empty slot is loaded, the disc type does not appear.

- 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.

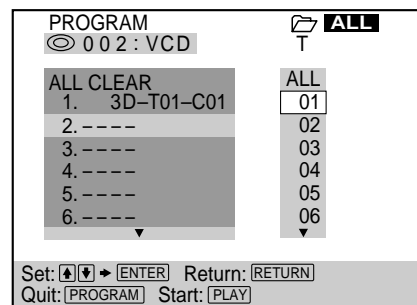
■ When playing a DVD

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.



■ When playing a VIDEO CD or CD

For example, select track 1 in disc 2.



- 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 \triangleright 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 \uparrow/\downarrow .
- 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 \uparrow/\downarrow then press CLEAR.

The program remains even after Program Play ends
 When you press \triangleright , you can play the same program again.

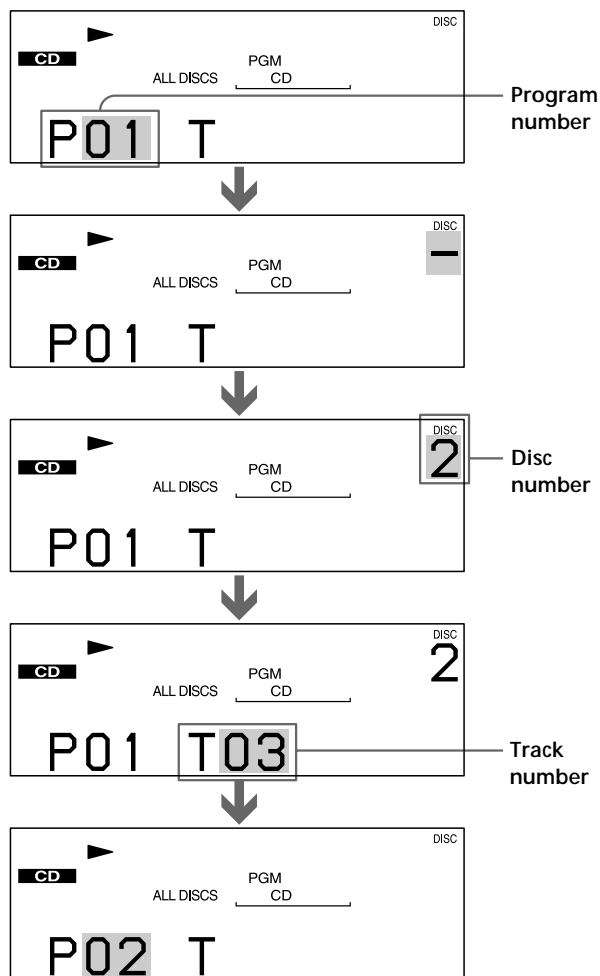
You can do Repeat Play or Shuffle Play of the programmed titles, chapters or tracks
 During Program Play, press REPEAT or SHUFFLE.
 Or set "REPEAT" or "SHUFFLE" to "ON" in the Control Menu display.

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

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.

Disc types are abbreviated on-screen as follows.
 DVD : D
 VCD : V
 CD : C

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 CD in disc slot 2 in the CD folder for Program 1, the front panel display will appear as follows:



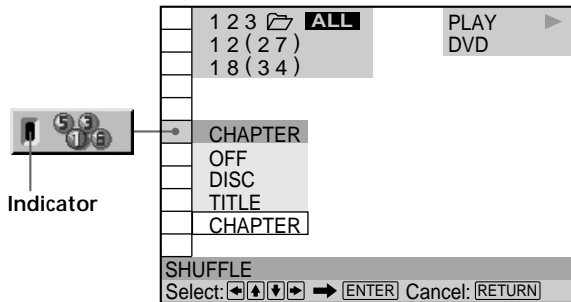
Notes

- 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 front cover
 - the player enters standby mode by pressing \mathbb{I}/power on the remote
 - you turn the power off by pressing power on the player
- You cannot select side B contents for Program Play.
- 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.

Playing in Random Order (Shuffle Play)

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 selected folder.

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



■ 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 in the folder and play them in a random order.
- TITLE: has the player “shuffle” titles in the folder and play them in a random order.
- CHAPTER: has the player “shuffle” chapters in the folder 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 in the folder and play them in a random order.
- TRACK: has the player “shuffle” tracks in the folder 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.

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

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

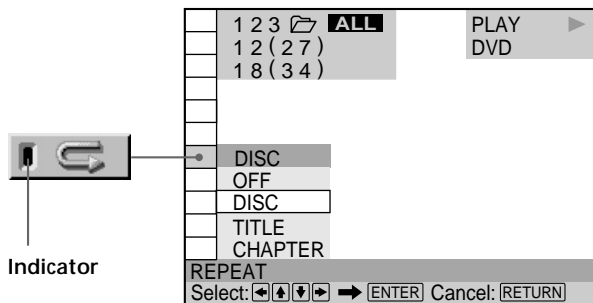
Notes

- Shuffle Play is canceled when:
 - you open the front cover
 - 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 25).
- You cannot set Shuffle Play on side B contents.

Playing Repeatedly (Repeat Play)

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 selected folder. You cannot perform Repeat Play during PBC playback of VIDEO CDs (page 25).

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



■ 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

- OFF: 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 in the folder 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



- OFF: 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 in the folder when you select "ALL DISCS."
- TRACK: repeats the current track.


When Program Play or Shuffle Play is on

- OFF: does not play repeatedly.
- ON: repeats Program Play or Shuffle Play.

To stop Repeat Play

Press CLEAR on the remote.

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

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

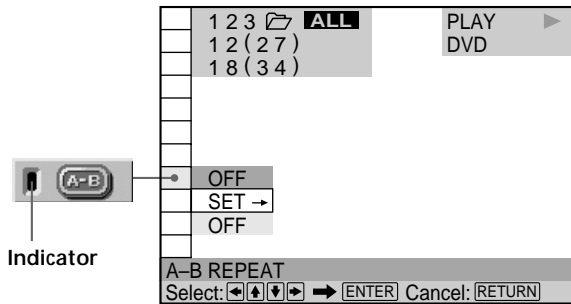
Notes

- Repeat play is canceled when:
 - you open the front cover
 - the player enters standby mode by pressing I/⏻ on the remote
 - you turn the power off by pressing ⏻ on the player
- Depending on the DVD, you may not be able to perform Repeat Play.
- You cannot set Repeat Play on side B contents.

Repeating a Specific Portion (A-B Repeat)

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 25), 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.



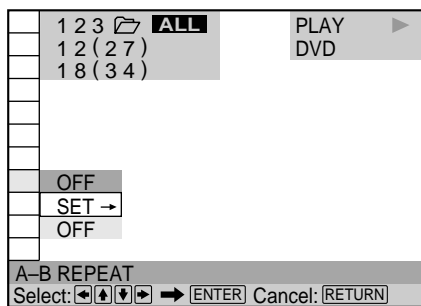
■ A-B REPEAT

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.

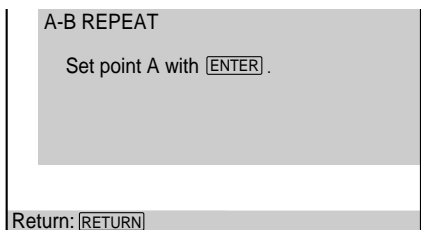
Setting a portion for A-B repeat

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



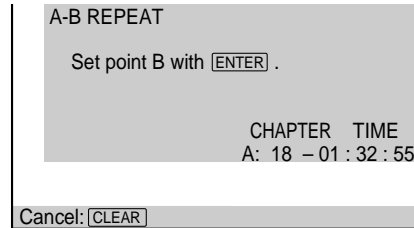
2 Select "SET ->" and press ENTER.

The A-B REPEAT setting display appears.



3 During playback, when you find the starting point (point A) of the portion to be played repeatedly, press ENTER.

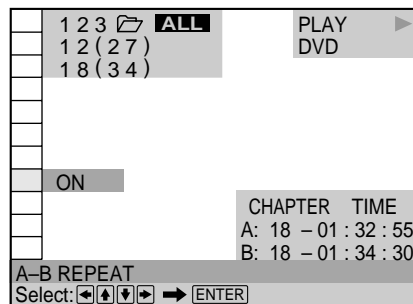
The starting point (point A) is set.



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.



To stop A-B Repeat Play

Press CLEAR on the remote.

Notes

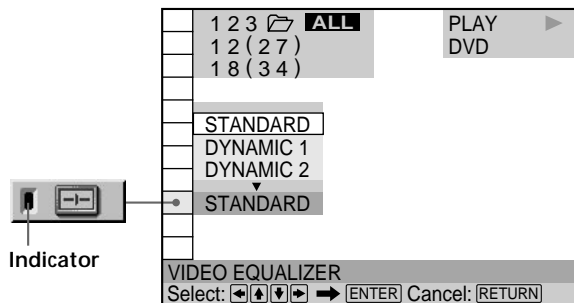
- You can set A-B Repeat for only one specific portion.
- A-B Repeat is canceled when:
 - you open the front cover
 - the player enters standby mode by pressing I/⏻ on the remote
 - you turn the power off by pressing ⏻ on the player
- When you set A-B Repeat, the settings for Shuffle Play, Repeat Play, 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)

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.




■ VIDEO EQUALIZER

Selects the video control setting.

The default setting is underlined.

- **STANDARD**: 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.

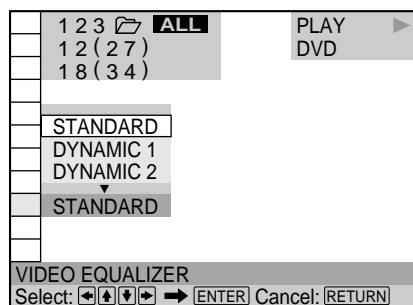
 When you watch a movie CINEMA 1 or CINEMA 2 is recommended.

To adjust the picture items in MEMORY

You can adjust each element of the picture individually.

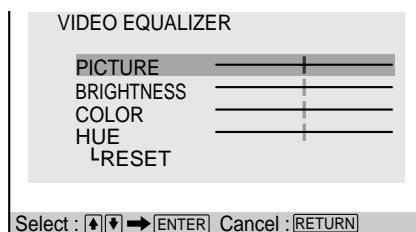
- **PICTURE**: changes the contrast
- **BRIGHTNESS**: changes the overall brightness
- **COLOR**: makes the colors deeper or lighter
- **HUE**: changes the color balance

1 Select “VIDEO EQUALIZER” and press ENTER.



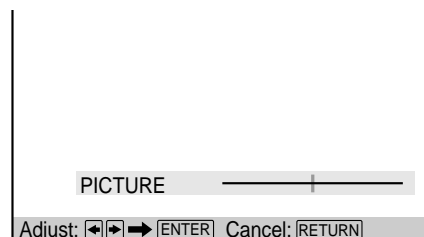
2 Select “MEMORY➡” and press ENTER.

The video equalizer display appears.



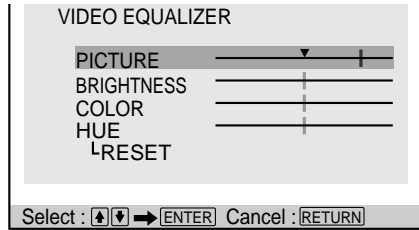
3 Select the picture item you want to adjust using ↑/↓, then press ENTER.

The adjustment bar of the selected item appears. To cancel adjusting the picture, press ⏪RETURN.



Adjusting the Playback Picture (Video Equalizer)

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



- 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→."

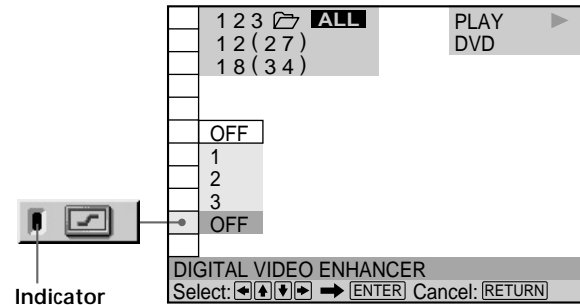
Notes

- Only one set of "MEMORY→" adjustments can be stored. When you adjust the items again, the new setting erases the previous setting.
- The Video Equalizer adjustment can be made to side B, but the settings will not be stored in Playback Memory.

Enhancing the Playback Picture (Digital Video Enhancer)

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.



■ 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.

Notes

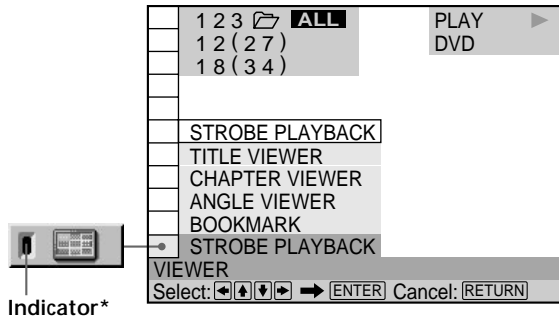
- Depending on the DVD/VIDEO CD disc or the scene being played, noise found in the disc may become more apparent. If this happens, reduce the Digital Video Enhancer level.
- The Digital Video Enhancer adjustment can be made to side B, but the settings will not be stored in Playback Memory.

Using the Quick Reference Screen (VIEWER)

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.



Indicator*

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

Dividing a track into 9 sections (STROBE PLAYBACK)

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, chapter, or track

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.

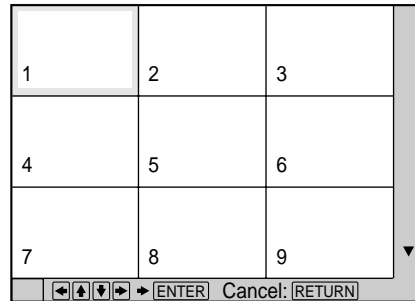
The screen will divide into 9 sections and show the first picture of each title, chapter or track.


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 **↑**.



 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.

Displaying different angles simultaneously 

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 $\leftarrow/\uparrow/\downarrow/\rightarrow$, then press ENTER. The selected angle is displayed.

To cancel displaying multi-angles

Press \hookrightarrow RETURN.

 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)  

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 301 slots 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 $\leftarrow/\uparrow/\downarrow/\rightarrow$, then press ENTER. Playback starts from the selected picture.

To cancel scanning the bookmark pictures

Press \hookrightarrow RETURN.

To reset the bookmark

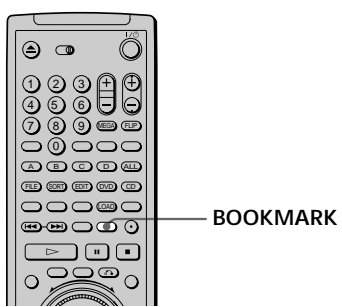
Select the bookmark you want to reset using $\leftarrow/\uparrow/\downarrow/\rightarrow$, then press CLEAR.


To reset all of the bookmarks for the player

Select "BOOKMARK RESET \rightarrow " under "CUSTOM SETUP" in the setup display. For details on resetting all of the bookmarks for the player, see page 68.

Setting a bookmark

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



 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 301 slots. When you have the player store a new disc in memory, the data for the old disc is erased.
- Depending on the DVD, you may not be able to set the bookmark.
- Do not turn off the player by pressing \odot . Doing so may cancel the settings. When you turn off the player, press \blacksquare first to stop playback and then press I/\cup on the remote. After the power indicator lights up in red and the player enters standby mode, press \odot 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.

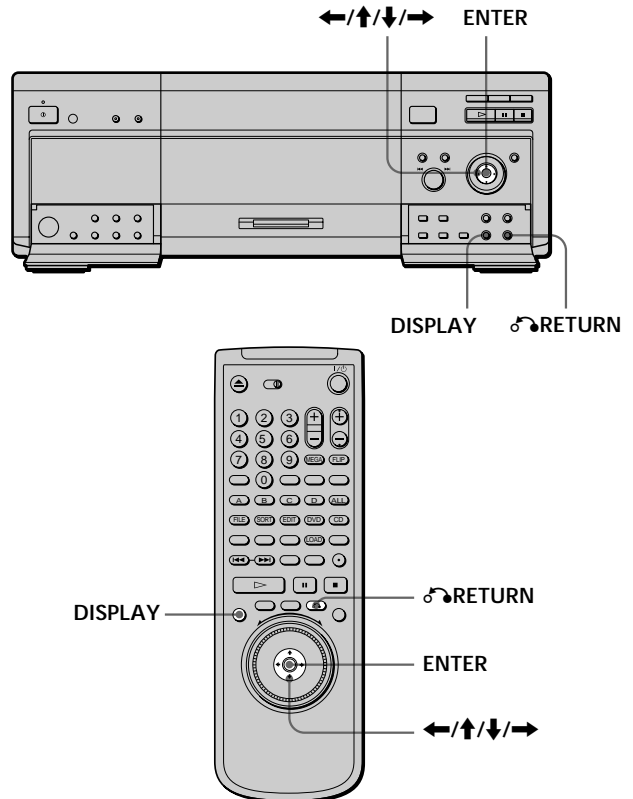
Using the Setup Display



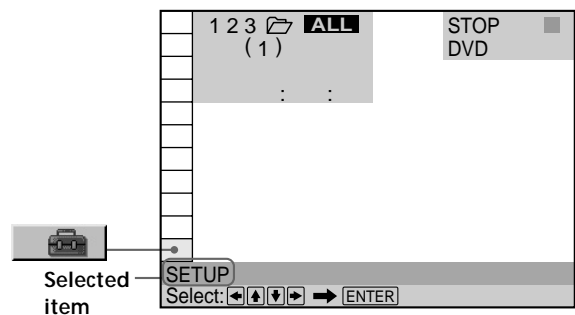
Using the setup display, you can do the initial setup, adjust the picture and sound and set the various outputs. You can also set a language for the subtitles and the setup display, limit playback by children, and so on. For details on each setup display item, see pages 66 to 77.

Note

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



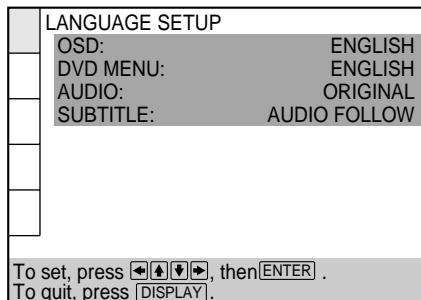
- 1 Press DISPLAY and select "SETUP" using \uparrow/\downarrow .



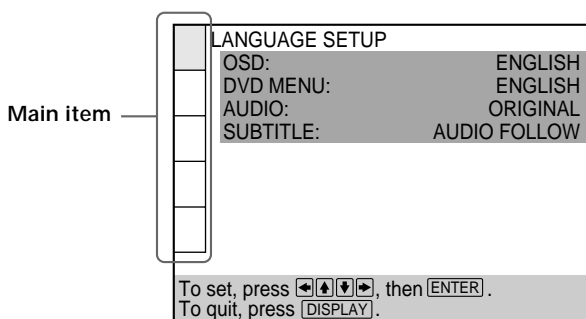
Using the Setup Display

2 Press ENTER.

The setup display appears.

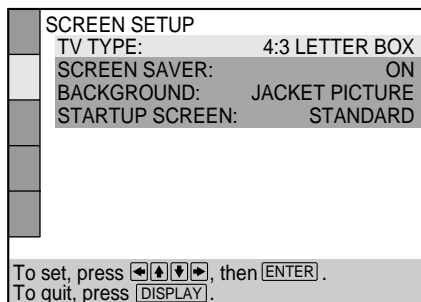


3 Select the main item you want using .

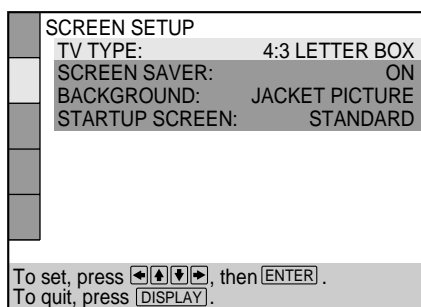


4 Press ENTER.

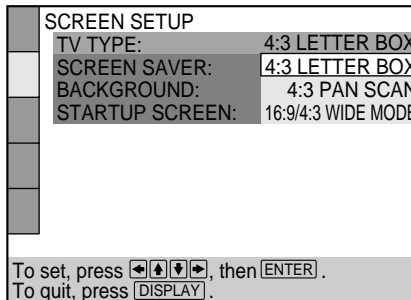
The selected main item is highlighted.



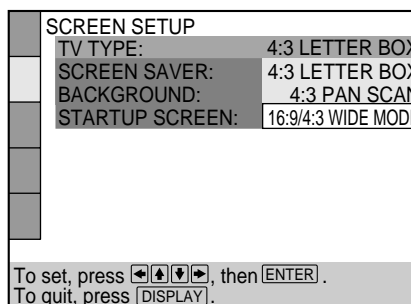
5 Select the item you want using .



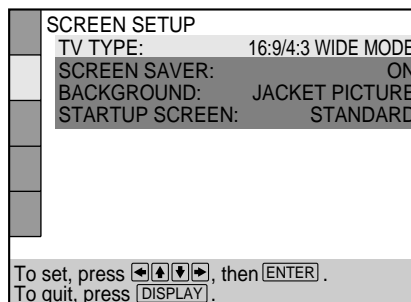
6 Press ENTER.



7 Select the setting you want using .



8 Press ENTER.



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

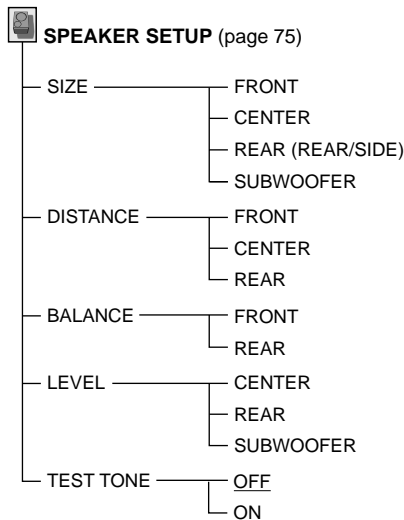
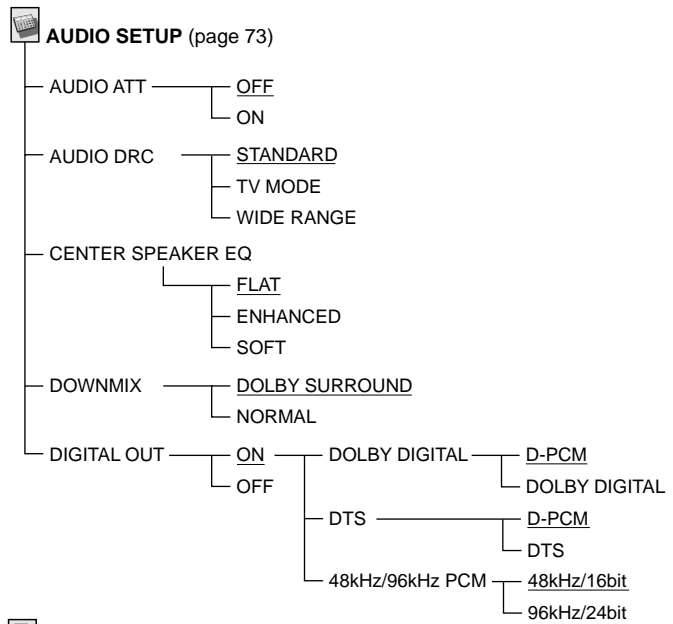
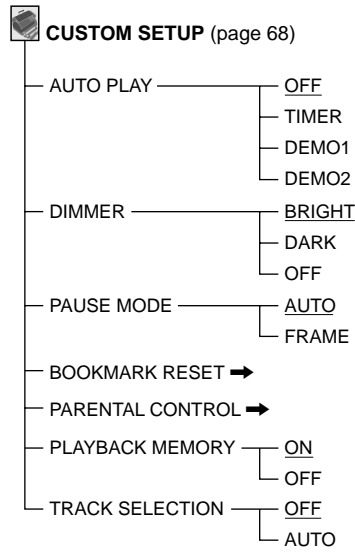
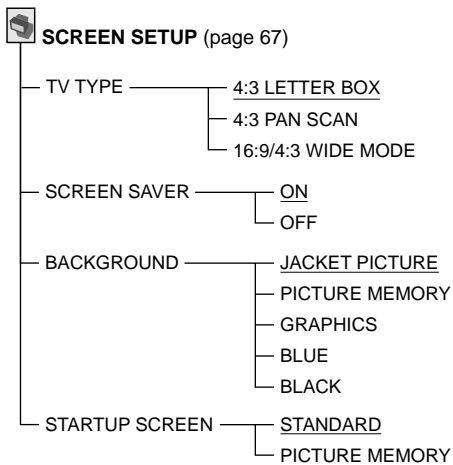
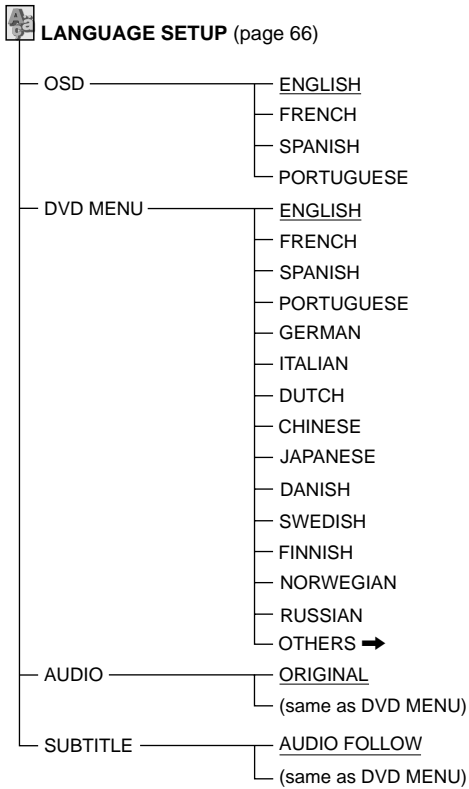
Press DISPLAY.

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

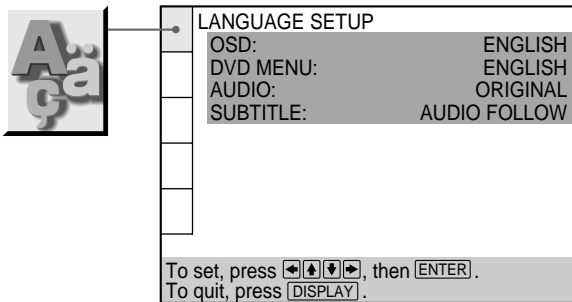
The default settings are underlined.



Setting the Display Language or Sound Track (LANGUAGE SETUP)

“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.



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 89). 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 89). 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➡

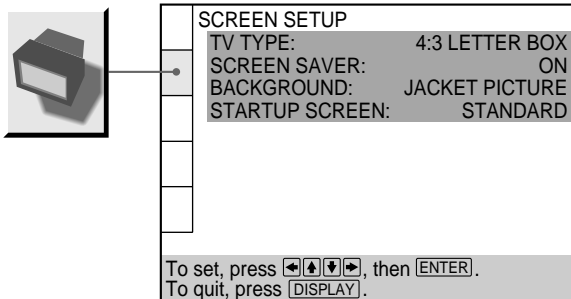
When you select “OTHERS➡,” select and enter the language code from the list using the number buttons (page 89). After you have made a selection, the language code (4 digits) is displayed.

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

Settings for the Display (SCREEN SETUP)

“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.



■ TV TYPE

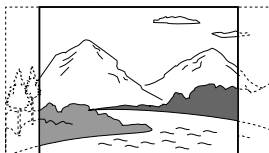
Selects the aspect ratio of the TV to be connected.

- **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).

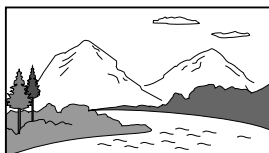
4:3 LETTER BOX



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.

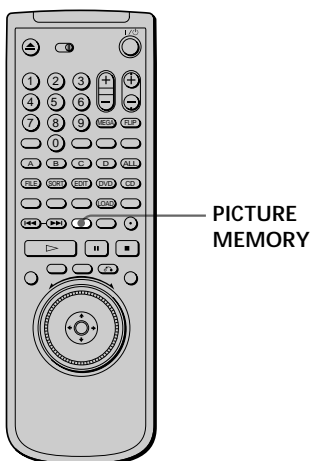
- **STANDARD**: The standard startup screen in the player’s memory appears.
- **PICTURE MEMORY**: Your favorite picture appears in the startup screen. For an explanation of how to store your favorite scene recorded on the disc for the startup screen, see the following section “Storing a picture in memory.”

If you select PICTURE MEMORY before setting a picture in memory, the standard startup screen will appear.

Settings for the Display (SCREEN SETUP)

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.



Notes

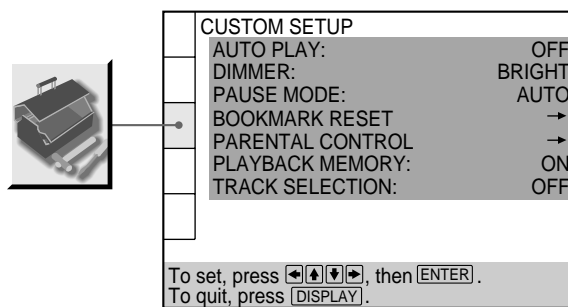
- The player can store only one scene in memory. The stored picture appears in both the background and the startup screen.
- Depending on the DVD, some scenes cannot be stored in memory when using the remote.
- When the picture is stored in memory by pressing PICTURE MEMORY, the picture stored before 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)



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

Select “CUSTOM SETUP” in the setup 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.

■ PARENTAL CONTROL →

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

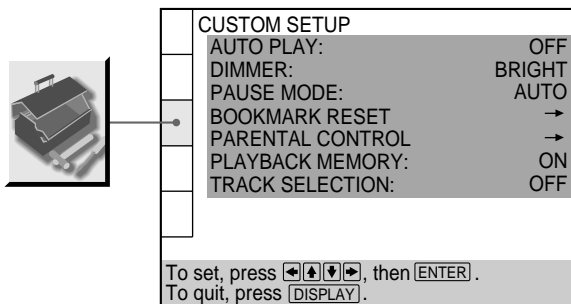
The same password is used for both Parental Control and Custom Parental Control (page 51).

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

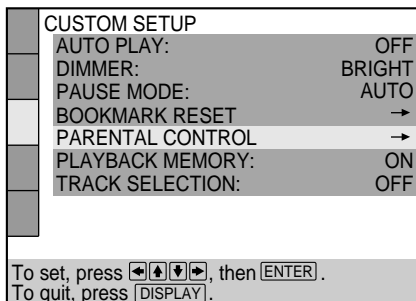
Limiting Playback by Children (Parental Control) **DVD**

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.

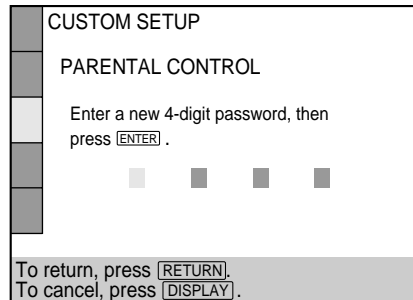


- 1 Select “PARENTAL CONTROL” using ↑/↓, then press ENTER.



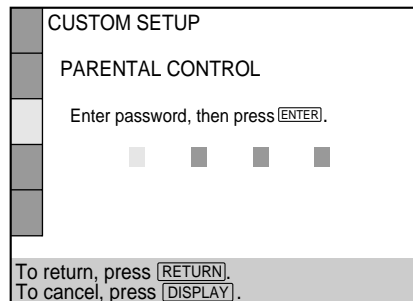
■ When you have not entered a password

The display for entering a password appears.



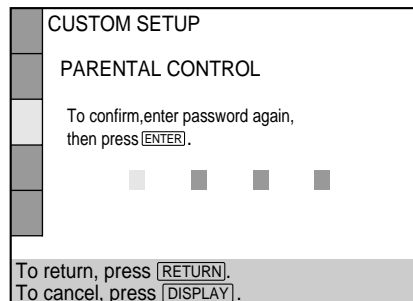
■ When you have already registered a password

The display for confirming the password appears. Skip Step 2.



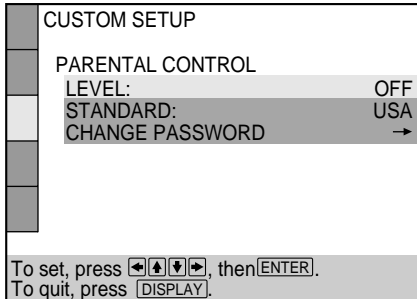
- 2 Enter a password in 4 digits using the number buttons, then press ENTER.

The digits change to asterisks (*), and the display for confirming the password appears.

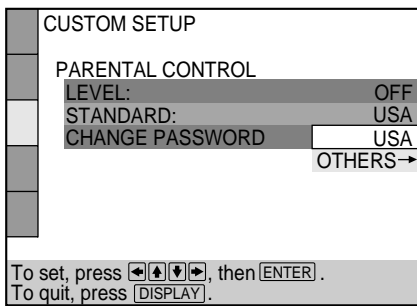


Custom Settings (CUSTOM SETUP)

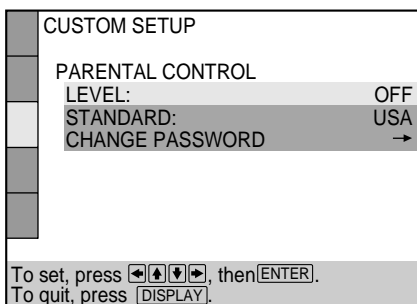
- 3** To confirm your password, enter it again using the number buttons, then press ENTER.
The display for setting the playback limitation level and changing the password appears.



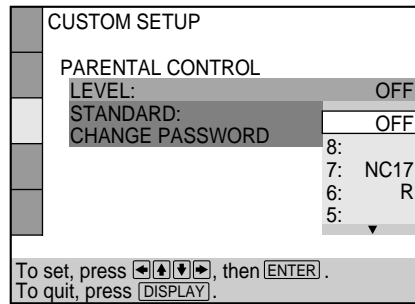
- 4** Select "STANDARD" using ↑/↓, then press →.



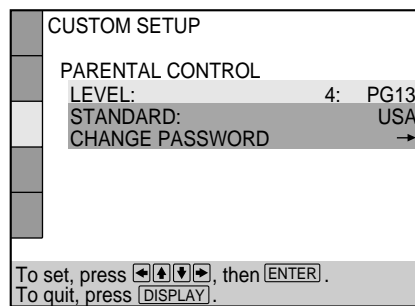
- 5** Select a geographic area as the playback limitation level standard using ↑/↓, then press ENTER.
When you select "OTHERS→," select and enter the standard code in the table on the next page using the number buttons.



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



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



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 ▷.

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 51).

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

Custom Settings (CUSTOM SETUP)

■ PLAYBACK MEMORY

The player can store the SUBTITLE, VIDEO EQUALIZER, and other settings of each disc for up to 301 slots (Playback Memory).

Set the Playback Memory function on or off.

- ON : 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 43)*
 - SUBTITLE (page 45)*
 - ANGLE (page 46)*
 - VIRTUAL 3D SURROUND (page 47)
 - VIDEO EQUALIZER (page 59)
 - DIGITAL VIDEO ENHANCER (page 60)
- * DVD only

Notes

- The player can store the settings of up to 301 slots. When you have the player store a new disc in memory, the data for the old disc is erased.
- The Playback Memory settings are not effective for side B.
- 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 ⏻. 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.

■ 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.

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

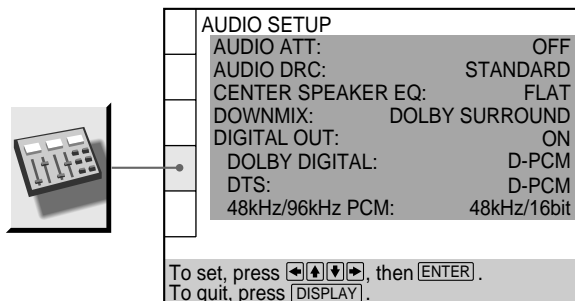
Notes

- 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 66).
- 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 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.

- OFF: 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” in “DIGITAL OUT.”

- STANDARD: 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.

■ 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 5.1 CH 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 44).

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.

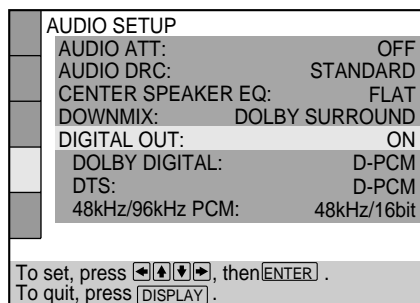
Note

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

Settings for the Sound (AUDIO SETUP)

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."



■ 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.

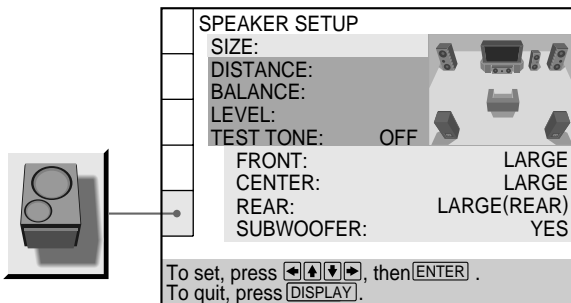
Notes

- 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 5.1 CH 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.



■ 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.

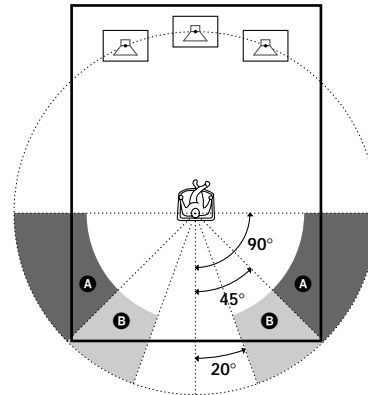
- SUBWOOFER
 - NONE: If you do not connect a subwoofer, select this. This activates the Dolby Digital bass redirection circuitry and outputs the LFE (low frequency effect) signals from the front speakers as long as the front speaker size is set to "LARGE."
 - YES: If you connect a subwoofer, select this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



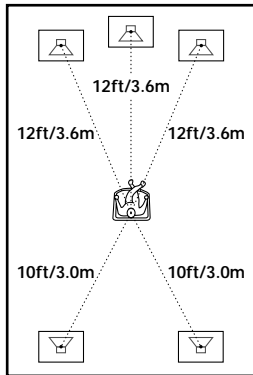
Notes

- 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.

Settings for the Speakers (SPEAKER SETUP)

■ 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.

■ 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 5.1 CH 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.

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

Set the TV/DISC EXPLORER/DVD switch to TV.

Number buttons



- 1 Slide the TV/DISC EXPLORER/DVD switch to TV.
- 2 Hold down I/⏻, and enter your TV's manufacturer's code (see the table) using the number buttons.
- 3 Release I/⏻.

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.

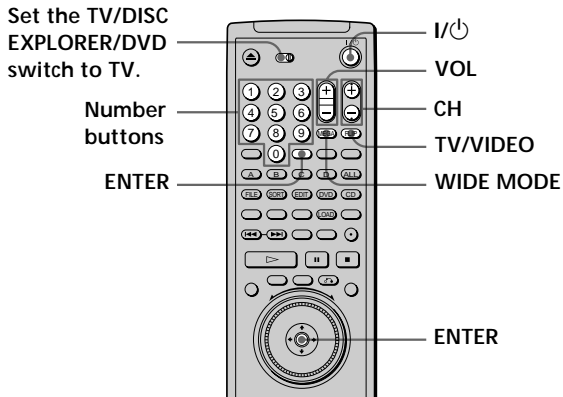
Manufacturer	Code number	Manufacturer	Code number
Sony (default)	01	Panasonic	06,19
Akai	04	Philco	03,04
AOC	04	Philips	08
Centurion	12	Pioneer	16
Coronado	03	Portland	03
Curis-Mathes	12	Quasar	06,18
Daytron	12	Radio Shack	05,14
Emerson	03,04,14	RCA	04,10
Fisher	11	Sampo	12
General Electric	06, 10	Sanyo	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

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

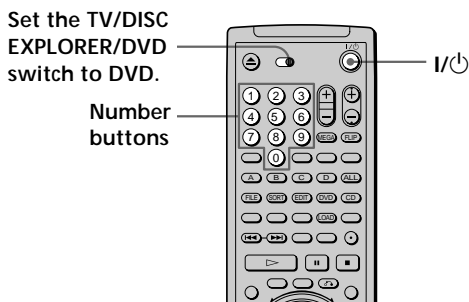


By pressing	You can
I/⏻	Turn the TV on or off
TV/VIDEO	Switch the TV's input source between the TV and other input sources
VOL	Adjust the volume of the TV
CH	Select the channel of the TV
WIDE MODE	Switch the wide picture on or off
Number buttons and ENTER	Select the channel of the TV

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/DISC EXPLORER/DVD switch to DVD.
- 2 Hold down I/⏻, and enter your AV receiver's manufacturer's code (see the table) using the number buttons.

- 3 Release I/⏻.

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).

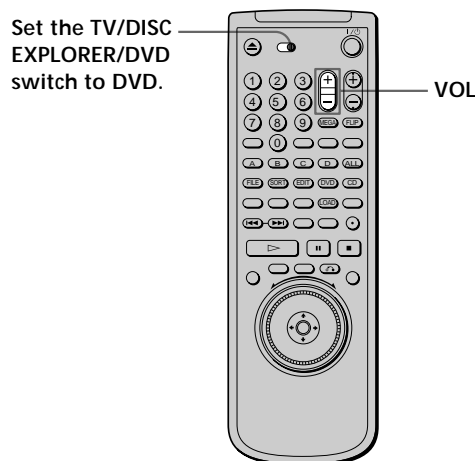
Manufacturer	Code number
Sony	91 (default), 89
Denon	84, 85, 86
Kenwood	92, 93
Onkyo	81, 82, 83
Pioneer	99
Sansui	87
Technics	97, 98
Yamaha	94, 95, 96

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)

When you set the TV/DISC EXPLORER/DVD switch to DVD, you can change the volume of the AV receiver (amplifier) using VOL.



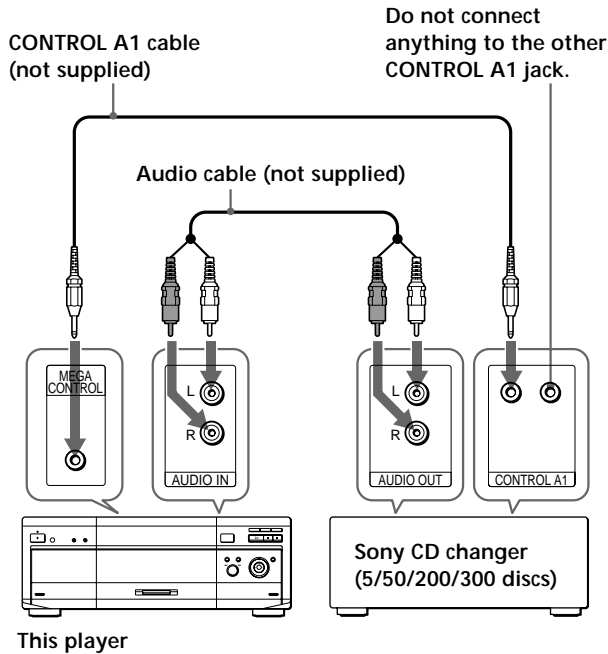
Note

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

Controlling the CD Changer (Mega Control)

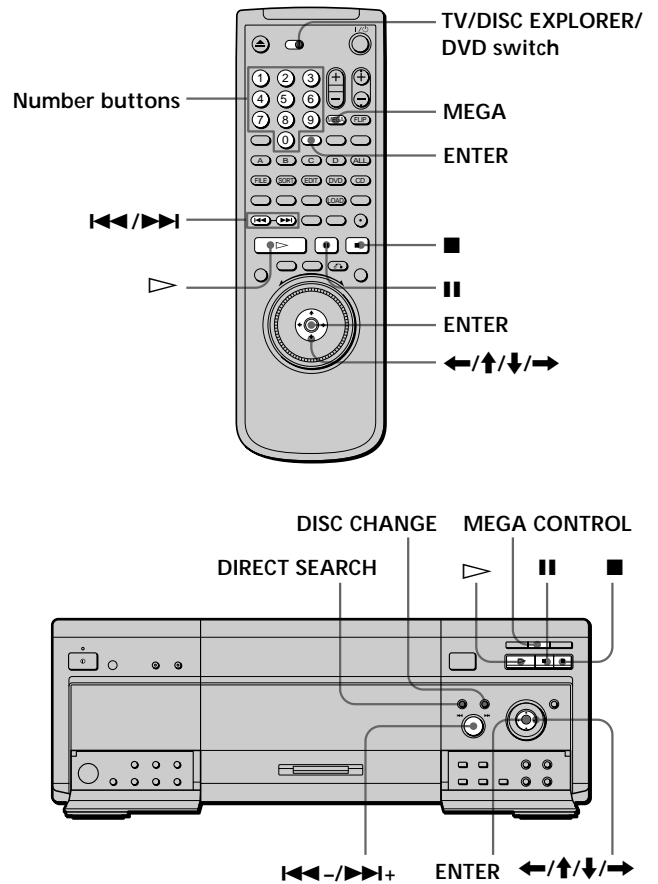
You can control a Sony CD changer of 5/50/200/300 discs connected to the MEGA CONTROL jack of the player.

Connecting the CD changer



Controlling the CD changer

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



- 1 Set the command mode selector of the CD changer to "CD 3."
- 2 Set the TV/DISC EXPLORER/DVD switch on the remote to DISC EXPLORER or DVD.
- 3 Turn on the player and the CD changer.
- 4 Press MEGA CONTROL on the player or MEGA on the remote.
The MEGA CONTROL button on the front panel lights up and the display shows the current disc number in the CD changer.
- 5 Select the play mode you want on the CD changer.
- 6 Press \blacktriangleright 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:

To	Operation
Select a disc during playback	Press the number button on the remote and ENTER, or \uparrow/\downarrow and ENTER, or turn the click shuttle slowly and press ENTER. Or, press DISC CHANGE to turn the indicator on followed by turning the $\lll-\/ \ggg+$ dial and then pressing it.
Skip by 10 discs in continuous play mode	Press \leftarrow/\rightarrow and then press ENTER.
Stop	Press \blacksquare .
Pause	Press II .
Resume play after pause	Press II or \triangleright .
Go to the next track during playback	<i>On the player:</i> Press DIRECT SEARCH to turn it on and turn the $\lll-\/ \ggg+$ dial clockwise. <i>On the remote:</i> Press \ggg .
Go back to the preceding track during playback	<i>On the player:</i> Press DIRECT SEARCH to turn it on and turn the $\lll-\/ \ggg+$ dial counterclockwise. <i>On the remote:</i> Press \lll .

To control the player again

Press MEGA CONTROL on the player or MEGA on the remote.

The MEGA CONTROL 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 panel is lit.
- The player will not enter Resume Play after the MEGA CONTROL button on the front panel 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 and Disc Explorer.

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 \triangleright to return to normal play mode.
- ➔ The player is in fast forward or fast reverse mode. Press \triangleright to return to normal play mode.
- ➔ Check the speaker connections and setting (page 12, 75). 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 73)

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 20)

Sound distortion occurs.

- ➔ In the setup display, set "AUDIO ATT" in "AUDIO SETUP" to "ON." (page 73)

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 43)
- ➔ 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, 75). 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 47)

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 \blacksquare on the player.
- ➔ Replace all of the batteries in the remote with new ones if they are weak.
- ➔ The TV/DISC EXPLORER/DVD switch is not in the correct position.

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 left into the disc slot.
- ➔ Clean the disc.
- ➔ The player cannot play CD-ROMs, etc. (page 5)
Insert a DVD, a VIDEO CD, or a 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 selected disc is not included in the current folder.

Troubleshooting

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 53 through 58)
- ➔ Resume Play has been selected. Press ■ on the front panel or on the remote before you start playing. (page 23)
- ➔ A title menu or a DVD menu automatically appears on the TV screen when you play your DVD, or a setup display automatically appears on the TV screen when you play your VIDEO CD with PBC functions.

The player starts playing the disc automatically.

- ➔ The DVD features the auto playback function.
- ➔ "AUTO PLAY" in "CUSTOM SETUP" is set to "TIMER." (page 68)

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 66)

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. (pages 26, 46)
- ➔ Changing the angles is prohibited on the DVD.

The player does not operate properly.

- ➔ Static electricity, etc., may affect the player's operation. Press Ⓛ 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 68)

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 80)

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 85.

The front cover does not open and "LOCKED" is displayed on the front panel display.

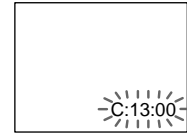
- ➔ Contact your Sony dealer or local authorized Sony service facility.

The FLIP button does not operate.

- ➔ The disc you are trying to flip does not have a side B.

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.



First three characters	Cause and/or Corrective Action
C13	<ul style="list-style-type: none">• The disc is dirty. ➔ Clean the disc with a cleaning cloth. (page 6)• The disc is not facing the correct direction. ➔ Place the disc in the slot so that the playing side is facing left.
C31	<ul style="list-style-type: none">• The front cover will not open or close all the way. ➔ Remove any objects that may be blocking the movement of the front cover.
Exx (xx is any number)	<ul style="list-style-type: none">• To prevent a malfunction, the player has performed the self-diagnosis function. The front cover automatically opens and the player enters standby mode. ➔ When you contact your Sony dealer or local authorized Sony service facility, remove all of the discs in the player and give the 5-character service number. (example: E:61:10)

Specifications

CD/DVD player

Laser	Semiconductor laser
Signal format system	NTSC

Audio characteristics

Frequency response	DVD (PCM 96 kHz): 2 Hz to 44 kHz (±0.5 dB) 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 115 dB (AUDIO OUT connectors only)
Harmonic distortion	Less than 0.0025 %
Dynamic range	More than 100 dB (DVD) More than 98 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 OUTPUT (1, 2)	Phono jacks	1.0 Vp-p	75 ohms, sync negative
S VIDEO OUTPUT (1, 2)	4-pin mini DIN	Y: 1.0 Vp-p C: 0.286 Vp-p	75 ohms, sync negative 75 ohms terminated
COMPONENT VIDEO OUT (Y, Pb, Pr)	Phono jacks	Y: 1.0 Vp-p Pb, Pr: 0.7 Vp-p	75 ohms, sync negative 75 ohms
5.1 CH OUTPUT	Phono jack	2 Vrms (at 50 kilohms)	Over 10 kilohms
S-LINK (CONTROLS IN)	Mini jack	-	-

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

General

Power requirements	120 V AC, 60 Hz
Power consumption	20 W
Dimensions (approx.)	430 × 158 × 415 mm (17 × 6 ¹ / ₄ × 16 ³ / ₈ in.) (w/h/d) incl. projecting parts
Mass (approx.)	7.0 kg (15 lb 7 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.

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Glossary

Bit rate (page 50)

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 47)

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, 74)

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 48, 73)

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, 74)

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 46)

Various angles for the scene (viewpoints of the video camera) are recorded on some DVDs.

Multilingual function (pages 14, 45, 66)

Several languages for the audio track or subtitles in a picture are recorded on some DVDs.

Parental Control (page 69)

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 25)

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.

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 45, 66.

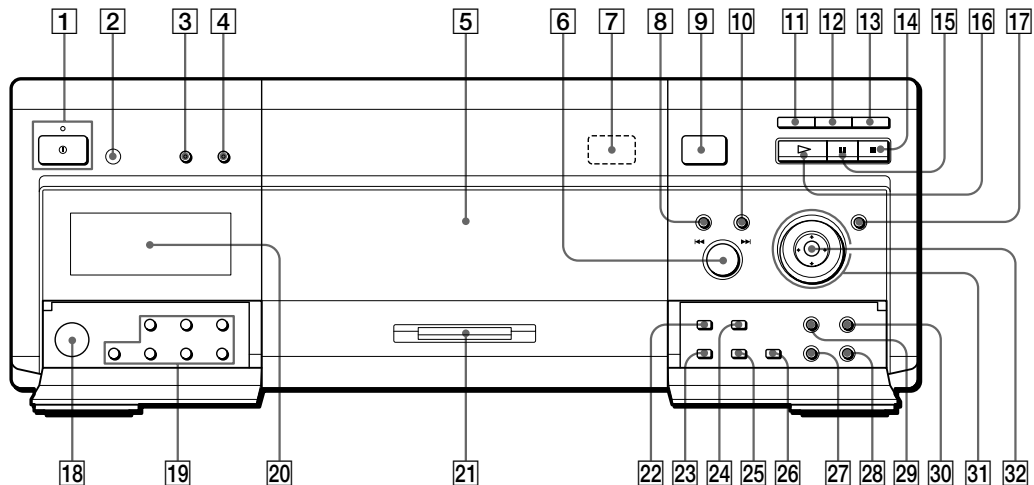
The language spellings conform to the ISO 639: 1988 (E/F) standard.

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

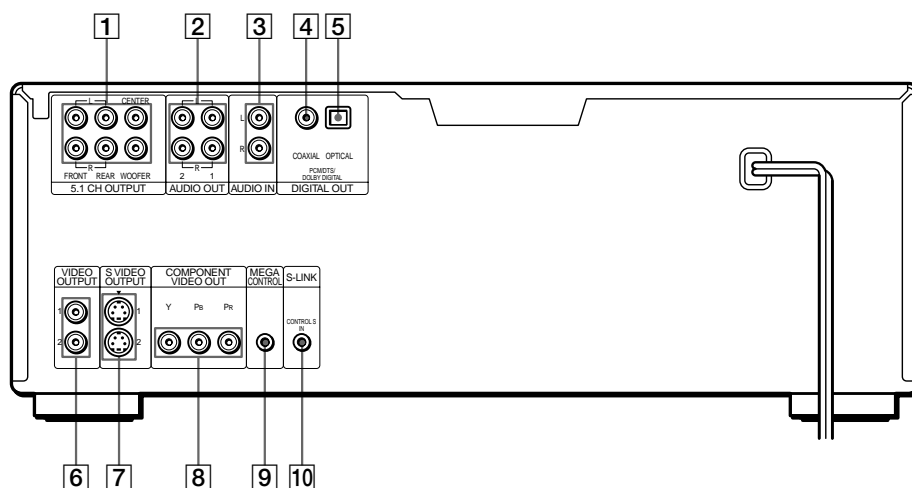


- | | |
|--|--|
| <p>1 ⓪ (power) button and indicator (19)
Disconnects the power of the player or places the player in standby mode.</p> <p>2 Ⓜ (remote sensor) (7)
Accepts the remote control signals.</p> <p>3 DVE (Digital Video Enhancer) button and indicator (60)
Press to select a Digital Video Enhancer level. The indicator lights up for every selected item except "OFF."</p> <p>4 VIRTUAL 3D SURROUND button and indicator (49)
Press to select the desired "VIRTUAL 3D SURROUND" item. The indicator lights up for every selected item except "OFF."</p> <p>5 Disc compartment (16)
Insert discs in the disc slots.</p> <p>6 ◀◀-/▶▶+ dial (16, 19, 20)
When the DIRECT SEARCH indicator is lit, turn to go to the next chapter or track or to go back to the previous chapter or track. When the DISC CHANGE indicator is lit, turn to rotate the disc slots or select disc.</p> <p>7 ⏏EJECT button (18)
Press to remove the disc from the disc slot.</p> <p>8 DIRECT SEARCH button and indicator (20)
Press to use the ◀◀-/▶▶+ dial to locate the chapter or track.</p> <p>9 OPEN/CLOSE button (16)
Opens or closes the front cover.</p> | <p>10 DISC CHANGE button and indicator (16, 19)
Press to use the ◀◀-/▶▶+ dial to rotate the disc slots or select disc.</p> <p>11 EASY PLAY button and indicator (17)
Press to play the EASY PLAY disc or bring the EASY PLAY slot to the loading position.</p> <p>12 MEGA CONTROL button and indicator (80)
Press to control the connected CD changer.</p> <p>13 FLIP button and indicator (21)
Press to turn over the disc.</p> <p>14 ■ (stop) button (20, 23)
Stops playing a disc.</p> <p>15 ⏸ (pause) button (20)
Pauses playing a disc.</p> <p>16 ▶ (play) button (19)
Plays a disc.</p> <p>17 JOG button and indicator (22)
Press to play a disc frame by frame.</p> <p>18 KEYBOARD jack (34)
Connect a keyboard to label the discs.</p> <p>19 FOLDER buttons (29)
Selects a disc folder.</p> <p>20 Front Panel Display (26)
Indicates the playing time, etc.</p> <p>21 MULTICHANNEL indicator
Lights up when:</p> <ul style="list-style-type: none"> - playing back multichannel surround sound such as Dolby Digital soundtracks and DTS soundtracks - the disc is not inserted |
|--|--|

- 22 REPEAT button (57)**
Each time you press this button, the “REPEAT” setting changes.
- 23 LOAD button (28)**
Reads the information of the discs loaded in sequence.
- 24 SHUFFLE button (56)**
Each time you press this button, the “SHUFFLE” setting changes.
- 25 TIME/TEXT button (26, 41, 43)**
Displays the playing time of the disc, etc., on the front panel display.
- 26 1/ALL DISCS button (53)**
Selects 1 DISC or ALL DISCS play mode.

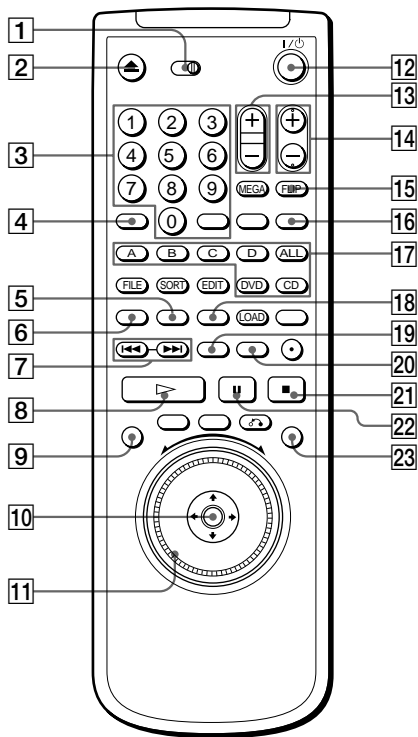
- 27 DISPLAY button (37)**
Displays the Control Menu display on the TV screen to set or adjust the Control Menu items.
- 28 RETURN button (26, 29, 38)**
Press to return to the previously selected screen, etc.
- 29 TITLE button (24)**
Displays the title menu on the TV screen.
- 30 DVD MENU button (25)**
Displays the DVD menu on the TV screen.
- 31 Click shuttle (22)**
Changes the playback speed.
- 32 ←/↑/↓/→/ENTER button**
Selects and executes the items or settings.

Rear Panel



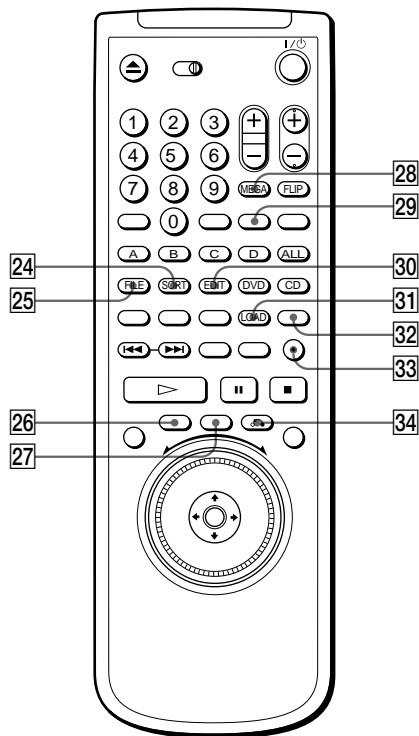
- 1 5.1 CH OUTPUT connectors (13)**
Connect to a receiver (amplifier) having 5.1 channel input connectors.
- 2 AUDIO OUT R (right)/L (left) 1/2 connectors (8, 10)**
Connect to the audio input connector on your TV or receiver (amplifier).
- 3 AUDIO IN (L, R) connectors (80)**
Connect to the audio output on a Sony CD changer of 5/50/200/300 discs.
- 4 DIGITAL OUT COAXIAL connector (10)**
Connect to an audio component using a coaxial digital connecting cord.
- 5 DIGITAL OUT OPTICAL connector (10)**
Connect to an audio component using an optical digital connecting cord. Take off the cap.
- 6 VIDEO OUTPUT 1/2 connectors (8)**
Connect to the video input connector on your TV or monitor.
- 7 S VIDEO OUTPUT 1/2 connectors (8, 10, 13)**
Connect to the S video input connector on your TV or monitor.
- 8 COMPONENT VIDEO OUT connectors (9)**
Connects to a monitor or projector having component video input connectors (Y, Pb, Pr) that conform to output signals from the player.
- 9 MEGA CONTROL connector (80)**
Connect to the control connector on a Sony CD changer of 5/50/200/300 discs.
- 10 S-LINK (CONTROL S IN) connector (8)**
Connect to the S-LINK (CONTROL S) connector on an external component.

Remote



Additional Information

- 1 TV/DISC EXPLORER/DVD switch (28, 78, 79)**
Selects to control the player, the Disc Explorer or the TV with the remote.
- 2 ▲OPEN/CLOSE button (20)**
Opens or closes the front cover.
- 3 Number/ENTER buttons**
Selects and executes the items or settings.
- 4 CLEAR button (55 through 58)**
Press to return to continuous play, etc.
- 5 PROGRAM button (55)**
Displays the "PROGRAM" display on the TV screen.
- 6 SHUFFLE button (56)**
Each time you press this button, the "SHUFFLE" setting changes.
- 7 ◀◀/▶▶PREV/NEXT (previous/next) buttons (20)**
Press to go to the next chapter or track, or to go back to the previous chapter or track.
- 8 ▷PLAY button (20)**
Plays a disc.
- 9 DISPLAY button (37)**
Displays the Control Menu display on the TV screen to set or adjust the Control Menu items.
- 10 ◀/↑/↓/▶/ENTER buttons**
Selects and executes the items or settings.
- 11 Click shuttle (22, 32)**
Changes the playback speed, or selects characters.
- 12 I/O (on/standby) button (19)**
Press to turn on the player or place it in standby mode after power is connected by pressing ① on the player.
- 13 VOL +/- buttons (79)**
When 1 is set to DVD or DISC EXPLORER, controls the AV receiver (amplifier) volume.
When 1 is set to TV, controls the TV volume.
- 14 CH/DISC SKIP +/- buttons (20, 79)**
When 1 is set to DISC EXPLORER or DVD, searches the discs in the folder (DISC SKIP).
When 1 is set to TV, changes the TV channel (CH).
- 15 TV/VIDEO/FLIP button (21, 79)**
When 1 is set to DVD or DISC EXPLORER, turns over the disc (FLIP).
When 1 is set to TV, switches the TV's input (TV/VIDEO).
- 16 DVE (Digital Video Enhancer) button (60)**
Press to select the Digital Video Enhancer level.
- 17 FOLDER buttons (29)**
Selects a disc folder.
- 18 REPEAT button (57)**
Each time you press this button, the "REPEAT" setting changes.
- 19 PICTURE MEMORY button (68)**
Press to store a picture in memory.
- 20 BOOKMARK button (62)**
Press to set a bookmark.
- 21 ■STOP button (20, 23)**
Stops playing a disc.
- 22 ■■PAUSE button (20)**
Pauses playing a disc.
- 23 JOG button and indicator (22)**
Press to play a disc frame by frame.



24 ANGLE/SORT button (35, 46)

When **1** is set to DVD or TV, changes the angles when playing a DVD (ANGLE).
When **1** is set to DISC EXPLORER, enters the SORT mode (SORT).

25 AUDIO/FILE button (30, 44)

When **1** is set to DVD or TV, changes the sound while playing a DVD or VIDEO CD (AUDIO).
When **1** is set to DISC EXPLORER, enters the FILE mode (FILE).

26 TITLE button (24)

Displays the title menu on the TV screen.

27 DVD MENU button (25)

Displays the DVD menu on the TV screen.

28 WIDE MODE/MEGA button (79, 80)

When **1** is set to TV, switches the wide picture on or off (WIDE MODE).
When **1** is set to DVD or DISC EXPLORER, press to control the connected CD changer (MEGA).

29 TIME/TEXT button (26, 41, 43)

Displays the playing time of the disc, etc., on the front panel display.

30 SUBTITLE/EDIT button (32, 45)

When **1** is set to DVD or TV, displays the SUBTITLE display on the TV screen (SUBTITLE).
When **1** is set to DISC EXPLORER, enters the EDIT mode to label the disc (EDIT).

31 1/ALL DISCS/LOAD button (28, 53)

When **1** is set to DVD or TV, selects 1 DISC or ALL DISCS play mode (1/ALL DISCS).
When **1** is set to DISC EXPLORER, reads the information of the discs loaded in sequence (LOAD).

32 EASY PLAY button (17)

Press to play the EASY PLAY disc or bring the EASY PLAY slot to the loading position.

33 LIGHT button (20)

Press to turn on the \triangleright , \parallel , \blacksquare , and DISPLAY buttons on the remote. The buttons will turn off after a while.

34 RETURN button (26, 29, 38)

Press to return to the previously selected screen, etc.

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