

SONY[®]

3-061-301-42(1)

CD/DVD Player

Operating Instructions

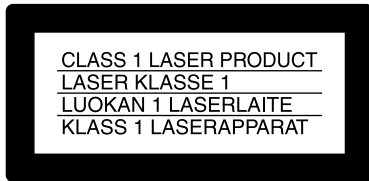


DVP-S536D
DVP-S535D

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 a qualified personnel only.

Mains cord must only be changed at a qualified service shop.



This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

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.

Notice for customers in the United Kingdom and Republic of Ireland

A moulded plug complying with BS1363 is fitted to this equipment for your safety and convenience.

Should the fuse in the plug supplied need to be replaced, a 5 AMP fuse approved by ASTA or BSI to BS1362, (i.e., marked with ⚡ or ⚡ mark) must be used.

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.

If the plug supplied with this equipment has a detachable fuse cover, be sure to attach the fuse cover after you change the fuse. Never use the plug without the fuse cover. If you should lose the fuse cover, please contact your nearest Sony service station.

Precautions

Safety

- This unit operates on 220 - 240 V AC, 50/60 Hz. Check that the unit's operating voltage is identical with your local power supply.
- If anything falls into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- The unit is not disconnected from the mains as long as it is connected to the mains outlet, even if the unit itself has been turned off.
- Unplug the unit from the wall outlet if you do not intend to use it for an extended period of time. To disconnect the cord, pull it out by the plug, never by the cord.

Installing

- Allow adequate air circulation to prevent internal heat buildup.
- Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation slots.
- Do not install the unit near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- Do not install the unit in an inclined position. It is designed to be operated in a horizontal position only.
- Keep the unit and discs away from equipment with strong magnets, such as microwave ovens or large loudspeakers.
- Do not place heavy objects on the unit.
- If the unit is brought directly from a cold to a warm location, moisture may condense inside the CD/DVD player and cause damage to the lenses. When you first install the unit, or when you move it from a cold to a warm location, wait for about 30 minutes before operating the unit.

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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.

When you play an NTSC disc, this player outputs the video signal in the NTSC system only. In this case, if your TV uses the PAL system, the picture becomes noisy.

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.



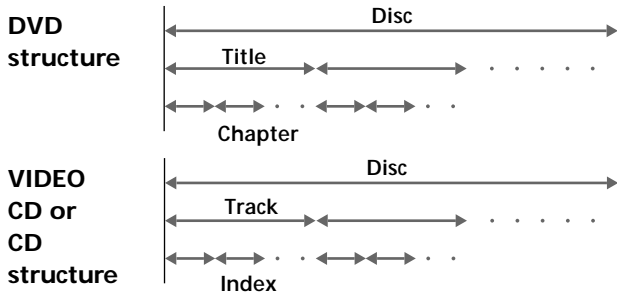
Region code

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 disc may be damaged.

On adjusting volume

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

On cleaning

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

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

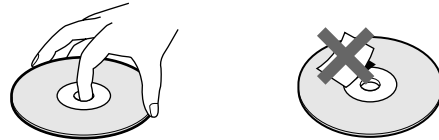
IMPORTANT NOTICE

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

Notes About the Discs

On handling discs

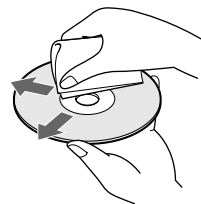
- To keep the disc clean, handle the disc by its edge. Do not touch the surface.
- Do not stick paper or tape on the disc. If there is glue (or a similar substance) on the disc, remove the glue completely before using the disc.



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

On cleaning

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



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

On novelty discs

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

Getting Started


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

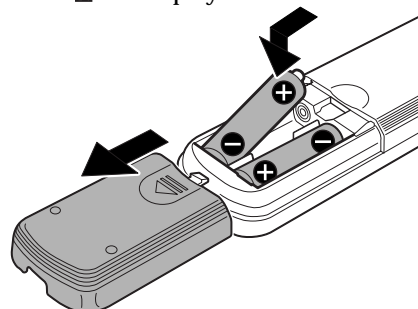
Unpacking


Check that you have the following items:

- Audio/video connecting cord (1)
- S video cord (1)
- Remote commander (remote) RMT-D116P (1)
- R6 (size AA) batteries (2)

Inserting batteries into the remote

You can control the player using the supplied remote. Insert two R6 (size AA) batteries by matching the + and - 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 61.

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.

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 cannot connect this player to a TV without a SCART (EURO AV) connector or a video input connector.

 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 35.

Required cords

SCART (EURO AV) connecting cord (not supplied) (2)

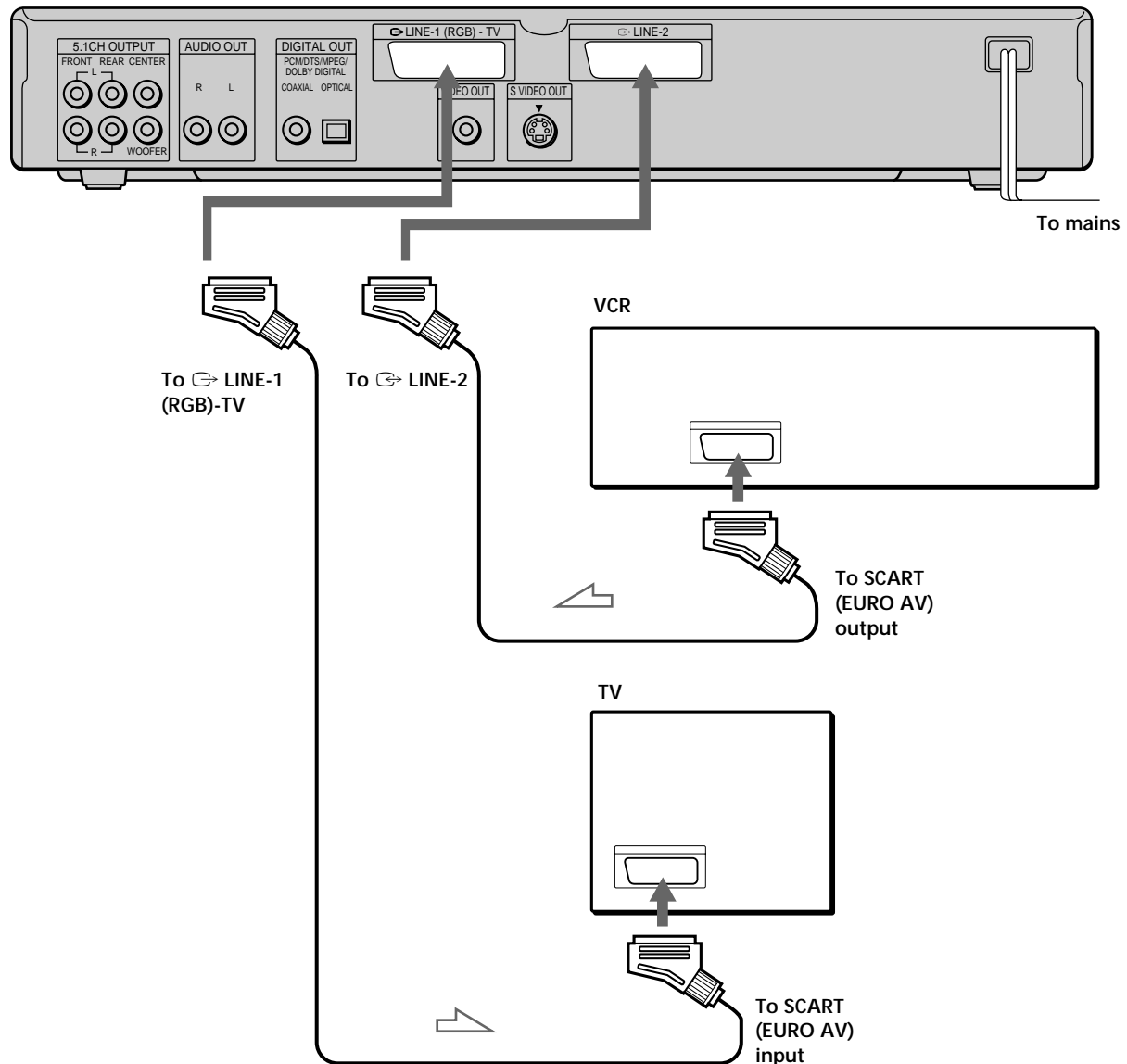
Be sure to make connections firmly to avoid hum and noise. Refer to the instructions supplied with the TV to be connected.



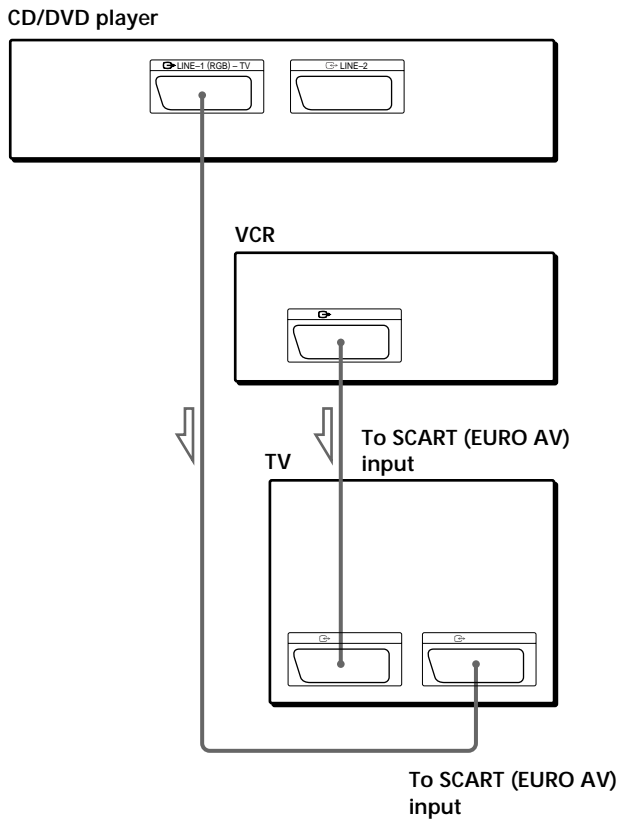
Notes

- When you set "LINE" to "S VIDEO" or "RGB" under "CUSTOM SETUP" in the setup display, use a SCART (EURO AV) connecting cord that conforms to each signal.
- When you connect using the SCART (EURO AV) connecting cord, confirm that the TV corresponds to S VIDEO or RGB. Refer to the instructions supplied with the TV to be connected.

CD/DVD player



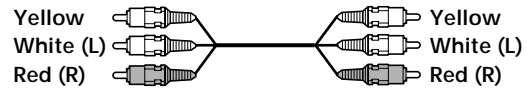
If your TV has two SCART (EURO AV) connectors



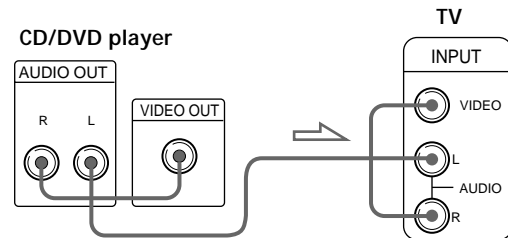
If your TV has no SCART (EURO AV) connectors

You can connect the player to a TV (with audio/video input jacks) using the supplied audio/video connecting cord. If your TV has an S video input connector, connect the component via the S VIDEO OUT connector using the supplied S video cord instead of the video connecting cord. You will get a better picture. 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.

Audio/Video connecting cord (supplied) (1)

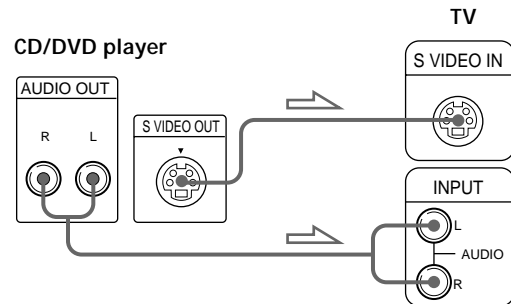


■ To listen to the sound through TV speakers



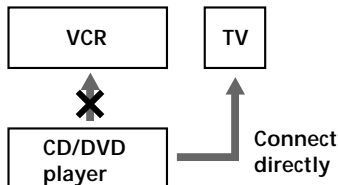
■ If your TV has an S video input connector

S video cord (supplied) (1)



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 56.
- If you cannot view the pictures from a VCR through this player which is connected to a TV with RGB component connectors, set to (Audio/Video) on your TV. When you select (RGB), the TV cannot receive the signal from the VCR.
- If you want to use your VCR's SmartLink function, connect the VCR to your TV's SmartLink connector and connect the CD/DVD player to the TV with another connector.
- When you connect the player to your TV via the SCART (EURO AV) connectors, the TV's input source is set to the player automatically when you start playback or press any button except for on the player or on the remote. In this case, press TV/DVD on the remote to return the input to the TV.

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 47.

- **To connect the player to a wide-screen TV**
In the setup display, set "TV TYPE" in "SCREEN SETUP" to "16:9" (default setting). For details, see page 51.
- **To connect the player to a normal TV**
In the setup display, set "TV TYPE" in "SCREEN SETUP" to "4:3 LETTER BOX" or "4:3 PAN SCAN." For details, see page 51.
- **To connect the player to a TV or VCR via a SCART (EURO AV) connector that conforms to the S video signals or RGB signals**
In the setup display, set "LINE" in "CUSTOM SETUP" to "S VIDEO" or "RGB." For details, see page 52.

When you play a disc recorded in the NTSC color system, the player outputs the video signal or the setup display etc. in the NTSC color system and the picture may not appear on PAL color system televisions. In this case, open the disc tray and remove the disc.

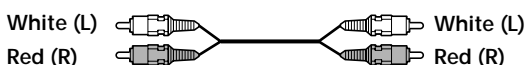
Receiver (Amplifier) Hookups

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 connect front speakers only
 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 35.

Required cords

Audio connecting cord (not supplied) (1)



S video cord (supplied) (1)



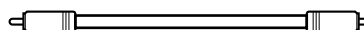
When connecting the cords, be sure to match the color-coded cord to the appropriate jacks on the components: Red (right) to Red and White (left) to White. Be sure to make connections firmly to avoid hum and noise.

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)

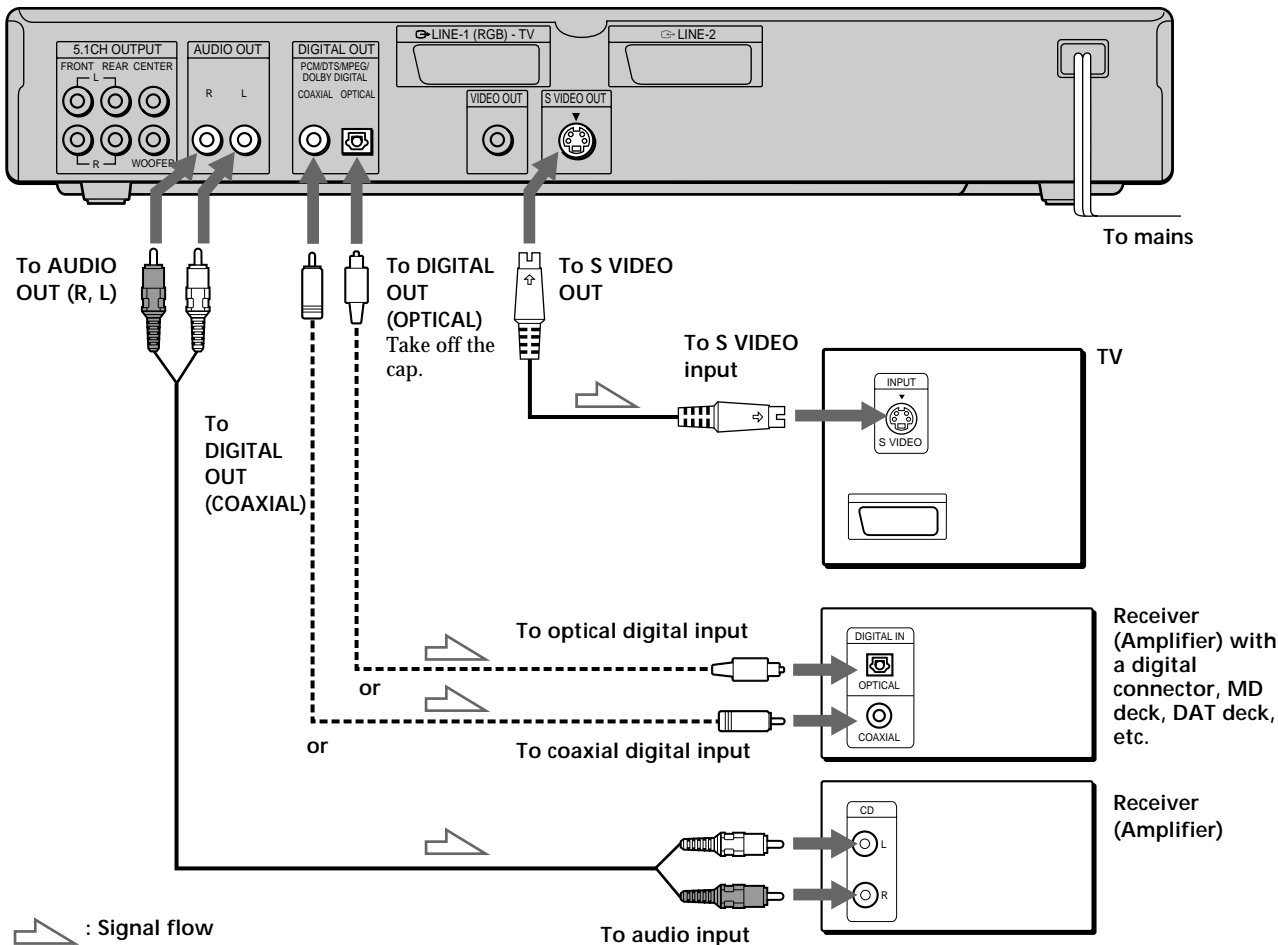


Coaxial digital connecting cord (not supplied) (1)



Do not connect the mains lead to a switched mains such as the mains on a receiver (amplifier). Doing so may cause the Playback Memory and menu settings to be cancelled when you turn off the receiver.

CD/DVD player



Receiver (Amplifier) Hookups

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 video connecting cord (not supplied) instead of the S video cord. For details, see page 9.

Refer to the instructions supplied with your TV.

Setups for the player 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.

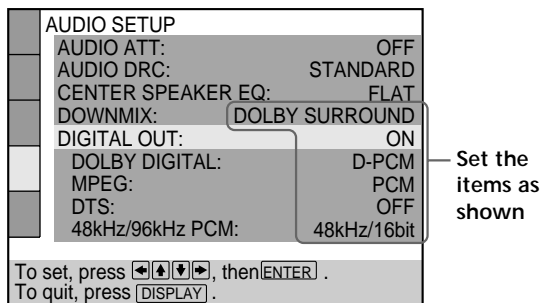
Some setup adjustments are necessary for the player depending on the components to be connected.

Use the setup display to change the various settings.

For details on using the setup display, see page 47.

If your receiver (amplifier) does not have a built-in Dolby* Digital decoder, MPEG 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 56) as shown in the illustration below. These are the default settings.



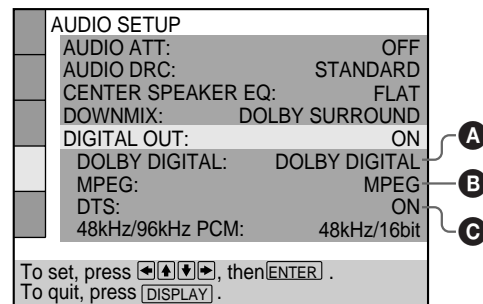
When you have made the connections using an optical or coaxial digital connecting cord, do not set "DOLBY DIGITAL" to "DOLBY DIGITAL," "MPEG" to "MPEG," "DTS" to "ON" and "48kHz/96kHz PCM" to "96kHz/24bit." If you do, a loud noise will suddenly come out from the speakers, affecting your ears or causing 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, MPEG 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 57).
- When you connect an audio component with a built-in MPEG decoder **B**
Set "DIGITAL OUT" in "AUDIO SETUP" to "ON" and then set "MPEG" to "MPEG" in the setup display (page 57).
- When you connect an audio component with a built-in DTS decoder **C**
Set "DIGITAL OUT" in "AUDIO SETUP" to "ON" and then set "DTS" to "ON" in the setup display (page 57).



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 MPEG decoder, do not set "MPEG" to "MPEG."
- When you do not connect an audio component with a built-in DTS decoder, do not set "DTS" to "ON."
- 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 MPEG audio 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 35.

Note

When a DVD has a sound track with 7.1 channels recorded in MPEG audio format, the output audio signals are mixed down to 5.1 channels.

Speaker placement

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

- Use higher performance speakers.
- Use rear and center speakers that match your front speakers in size and performance.
- Place the subwoofer between the front (L, R) speakers if possible.

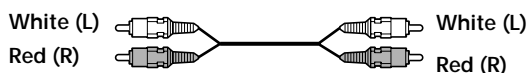
Note

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

Required cords

Audio cords (not supplied) (2)

For the 5.1CH OUTPUT FRONT and REAR jacks



Monaural audio cords (not supplied) (2)

For 5.1CH OUTPUT CENTER and WOOFER jacks



S video cord (supplied) (1)

For the S VIDEO OUT jack



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

Do not connect the mains lead to a switched mains such as the mains on a receiver (amplifier). Doing so may cause the Playback Memory and menu settings to be cancelled when you turn off the receiver.

Notes

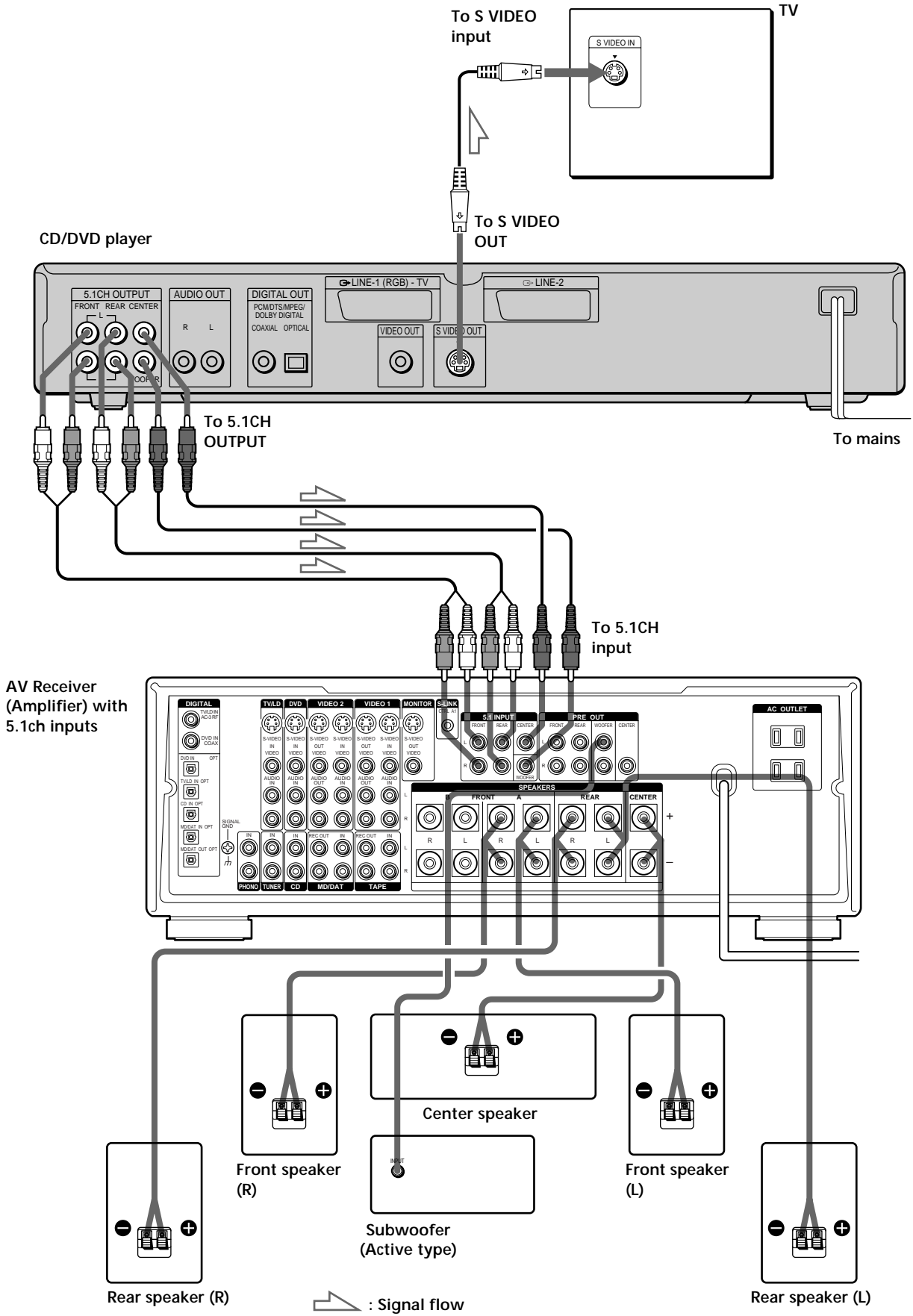
- Do not connect the mains lead to the mains or press the POWER switch before completing all connections.
- Refer to the instructions supplied with the component to be connected.
- The cord connectors should be fully inserted into the jacks. A loose connection may cause hum and noise.
- If you want to connect the component via the DIGITAL OUT OPTICAL or COAXIAL connector using an optical or coaxial digital connecting cord (not supplied), see page 11.

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 47.

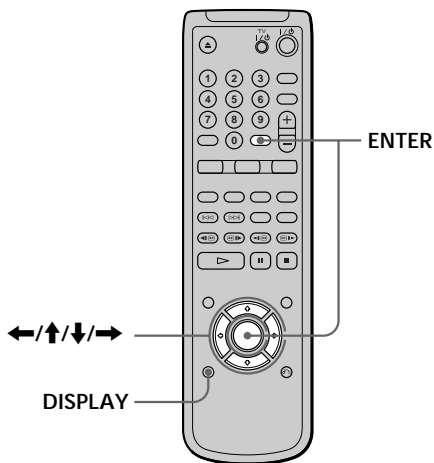
- **To enjoy Dolby Digital surround sound by connecting the player to a receiver (amplifier) with 5.1 channel inputs**
Correctly adjust each speaker to your listening position (page 59).

5.1 Channel Surround Hookups

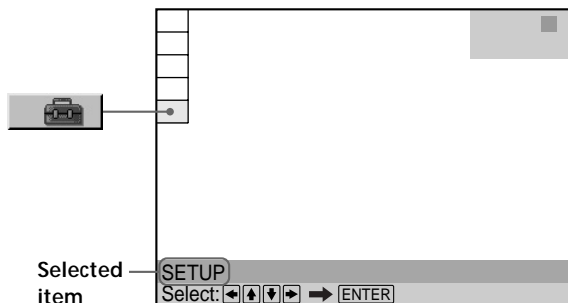


Selecting the Language for the On-Screen Display

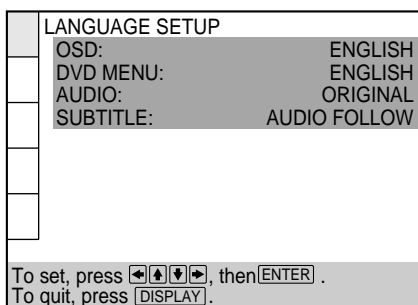
You can select the language for the setup display, the Control Menu display or the messages displayed on the screen. The default setting is "ENGLISH."



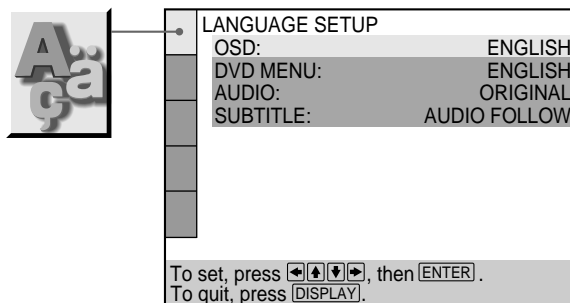
- 1 When the player is in stop mode, press DISPLAY and select "SETUP" using \uparrow/\downarrow .
The on-screen menu items are different depending on whether there is a disc in the player or not.



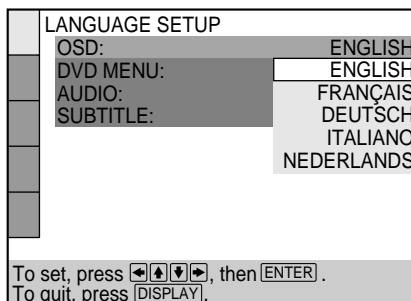
- 2 Press ENTER.
The setup display appears on the TV screen.



- 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. These languages are different depending on the player model.



- 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.

Selecting the Language for the On-Screen Display

To return to the previous screen

Press  RETURN.

To quit while making a selection

Press DISPLAY.



Note

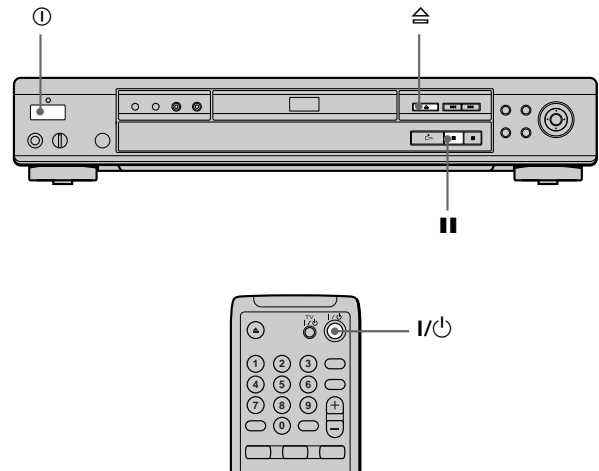
The languages you can select are the ones displayed in step 4. For details, see page 50.

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/II on the remote.

The power indicator lights up in green.

When there is a disc in the player, press  and remove the disc. Then press  again to close the disc tray.
- 2 Press and hold  on the player for more than two seconds.

You will hear one beep and the Sound Feedback function is turned on.

To turn off the Sound Feedback Function

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

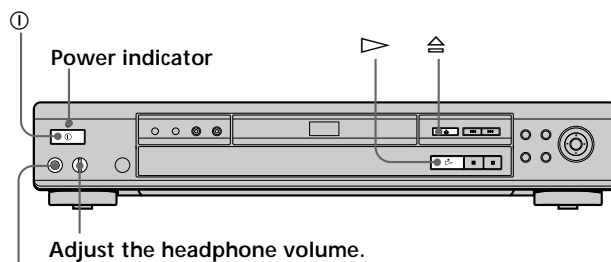
Playing Discs

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

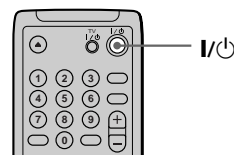
When you play a disc recorded in the NTSC color system, the player outputs the video signal or the setup display etc. in the NTSC color system and the picture may not appear on PAL color system televisions. In this case, open the disc tray and remove the disc.

Playing Discs

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



Connect headphones.



1 Turn on your TV

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

When using a receiver (amplifier)

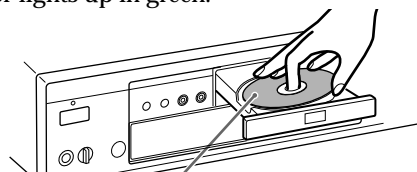
Turn on the receiver (amplifier) and select the appropriate position so that you can listen to the sound from this player.

2 Press ① to turn on the player

The player enters standby mode and the power indicator lights up in red.

3 Press on the player and place a disc on the disc tray

The player automatically turns on and the power indicator lights up in green.



With the playback side facing down

4 Press .

The disc tray closes and the player starts playback (continuous play). Adjust the volume on the TV or the receiver (amplifier).

After following Step 4

■ When playing a DVD

A DVD menu or title menu may appear on the TV screen (see page 21).

■ When playing a VIDEO CD

Depending on the VIDEO CD, a menu may appear on the TV screen. You can play the disc interactively by following the instructions on the menu. (PBC Playback, see page 22.)

Playing Discs

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 **⏻** on the player or 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 "OFF" 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 31.) 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.

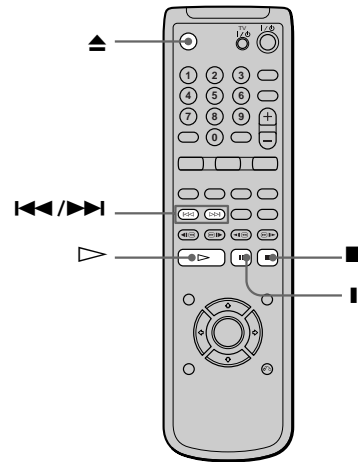
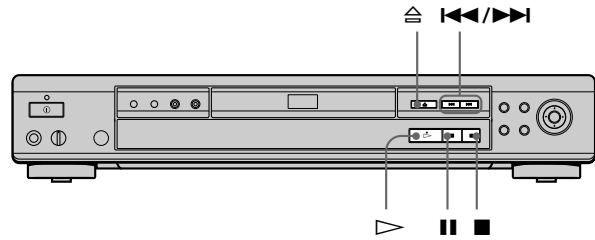
Notes on playing DTS sound tracks on a DVD

- The signals of the DTS sound tracks are output from the DIGITAL OUT OPTICAL and COAXIAL connectors only. No sound will be output from the AUDIO OUT connectors.
- If the player is connected to an audio component lacking a built-in DTS decoder, do not set "DTS" in "DIGITAL OUT" to "ON" in the setup display. Otherwise, when you play the DTS sound track, a loud noise will come out from the speakers, affecting your ears or causing the speakers to be damaged.
 - When you set "DTS" in "AUDIO SETUP" to "OFF", no sound will come out from the DIGITAL OUT OPTICAL and COAXIAL connectors even if you play DTS sound tracks on DVDs.

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 52.)
- If you don't operate the player or the remote for more than 30 minutes when a disc is not being played, the player automatically enters standby mode. (Auto Power Off function)
- 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



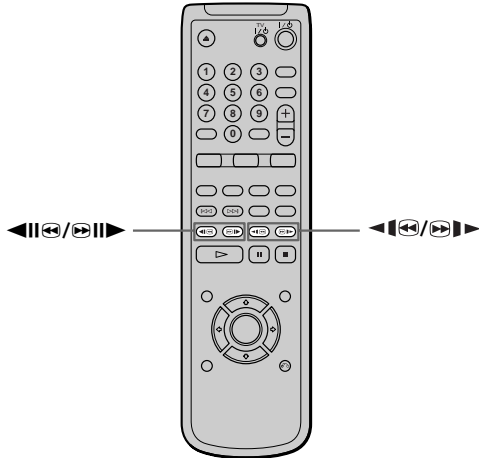
To	Operation
Stop	Press ■
Pause	Press
Resume play after pause	Press or ▶
Go to the next chapter, track or scene in continuous play mode	Press ▶▶
Go back to the preceding chapter, track or scene in continuous play mode	Press ◀◀
Stop play and remove the disc	Press ▲

You can play discs in various modes such as Program Play using the on-screen menu (Control Menu). For Control Menu operations, see page 25.

Searching for a Particular Point on a Disc



You can locate a particular point on a disc at the desired speed by monitoring the picture.



Note

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

Locating a point quickly (Search)

While a disc is playing, keep pressing to locate a point in playback direction at the 1* speed or keep pressing to locate a point in opposite direction at the 1* speed. When you find the point you want, release the button to return to normal playback speed.

* The 1/1 playback speed is the same as the scan speed described below.

Locating a point quickly by playing a disc in fast forward or fast reverse (Scan)

While a disc is playing, press to locate a point in the playback direction, or press to locate a point in the opposite direction. When you find the point you want, press to return to normal playback speed. Each time you press the or button during Speed scan, the playback speed changes. Three speeds are available. With each press, the display changes as follows:

Playback direction

x2 (DVD/CD only) → 1 → 2

Opposite direction

x2 (DVD only) → 1 → 2

The x2/x2 playback speed is about twice the normal speed. The 2/2 playback speed is faster than 1/1.

Locating a point slowly by watching the screen (Slow-motion play)



You can use this function only for DVDs or VIDEO CDs. When the player is in the pause mode, press to locate a point in the playback direction, or press to locate a point in the opposite direction. When you find the point you want, press to return to the normal playback speed.

Each time you press the or button during Slow-motion play, the playback speed changes. Two speeds are available. With each press, the display changes as follows:

Playback direction

1 ↔ 2

Opposite direction (DVD only)

1 ↔ 2


The 2/2 playback speed is slower than 1/1.

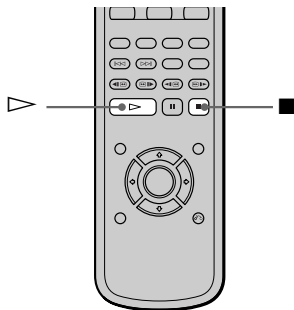
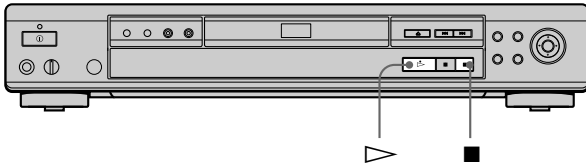
Playing a disc frame by frame




You can use this function only for DVDs or VIDEO CDs. When the player is in the pause mode, press to go to the next frame. Press to go to the preceding frame (DVD only). To return to normal playback, press .



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. As long as you do not open the disc tray, Resume Play will work even if the player enters standby mode by pressing  on the remote.






Notes

- Resume Play may not be available on some DVDs.
- Resume Play is not available in Shuffle or Program Play mode.
- Depending on where you stopped the disc, the player may resume playback from a different point.
- The point where you stopped playing is cleared when:
 - you open or close the disc tray
 - you turn the power off by pressing  on the player
 - you change the play mode
 - you start playback after selecting a title, chapter or track
 - you change the settings in the setup display

- 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  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.

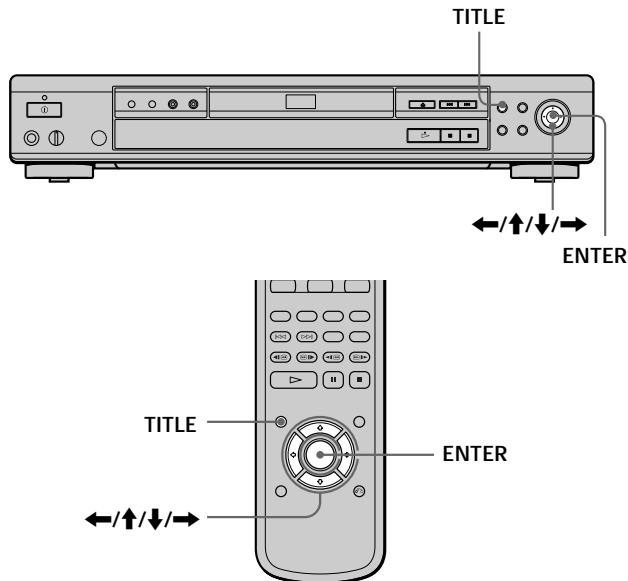
 **To play from the beginning of the disc**
When the playing time appears on the front panel display before you start playing, press  to reset the playing time, then press .

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.



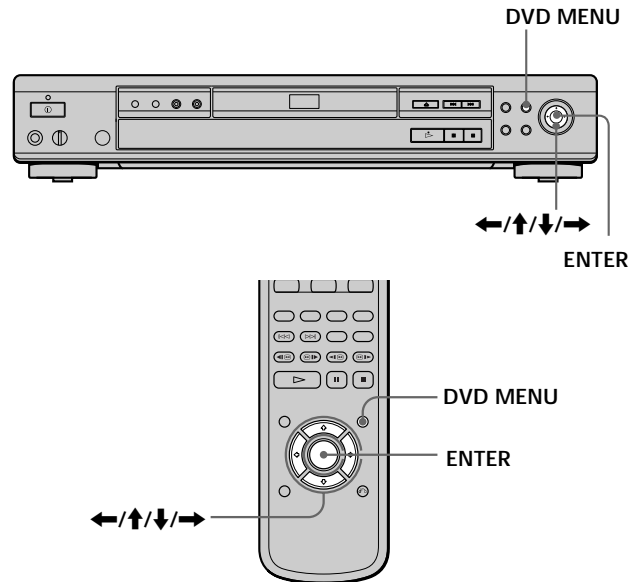
- 1 Press TITLE.**
The title menu appears on the TV screen. The contents of the menu vary from disc to disc.
- 2 Press $\leftarrow/\uparrow/\downarrow/\rightarrow$ to select the title you want to play.**
Depending on the disc, you can use the number buttons to select the title.
- 3 Press ENTER.**
The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

 **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 50.

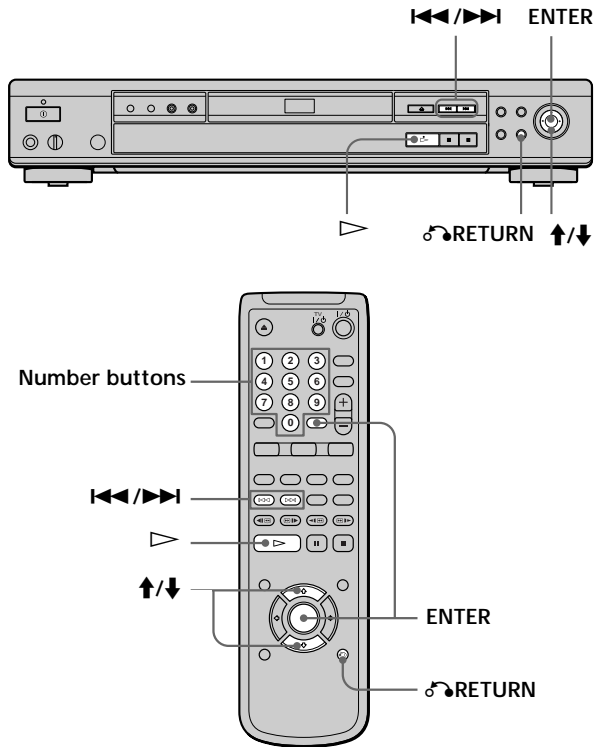
Note

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 ⏹RETURN during PBC Playback.



To go back to the menu

Press ⏹RETURN, ◀▶, or ⏮/⏭.

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

There are two ways.

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

Note

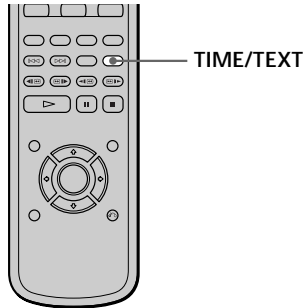
Depending on the VIDEO CD, "Press ENTER" in Step 3 may be expressed as "Press SELECT" in the instructions supplied with the disc. In this case, press ▷.

- 1** Start playing a VIDEO CD with PBC functions by following Steps 1 to 4 in "Playing Discs" on page 17.
- 2** Select the item number you want.
Press ⏮/⏭ to select the item number.
You can also select the item number with the number buttons on the remote.
- 3** Press ENTER.
- 4** Follow the instructions in the menu for interactive operations.
Refer to the instructions supplied with the disc, as the operating procedure may differ according to the VIDEO CD.

Using the Front Panel Display

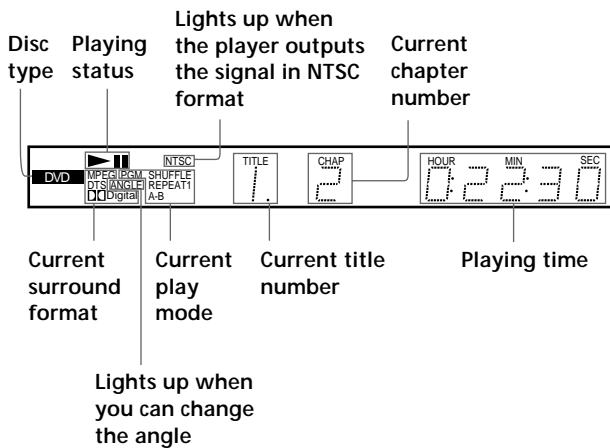


You can check information about the disc, such as the total number of titles or tracks or remaining time, using the front panel display.



When playing back a DVD

Displaying information while playing the disc

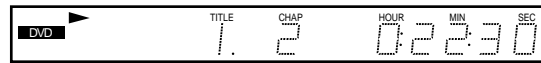


Checking the remaining time

Press TIME/TEXT.

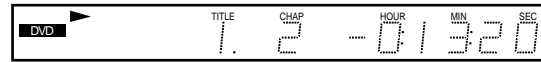
Each time you press TIME/TEXT while playing the disc, the display changes as shown in the following chart.

Playing time and number of the current chapter



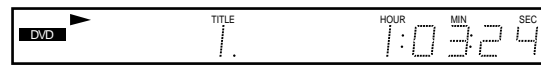
Press TIME/TEXT

Remaining time of the current chapter



Press TIME/TEXT

Playing time and number of the current title



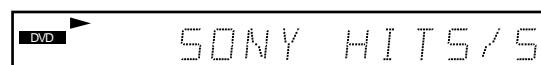
Press TIME/TEXT

Remaining time of the current title



Press TIME/TEXT

Text



Press TIME/TEXT

Playing Discs

Notes

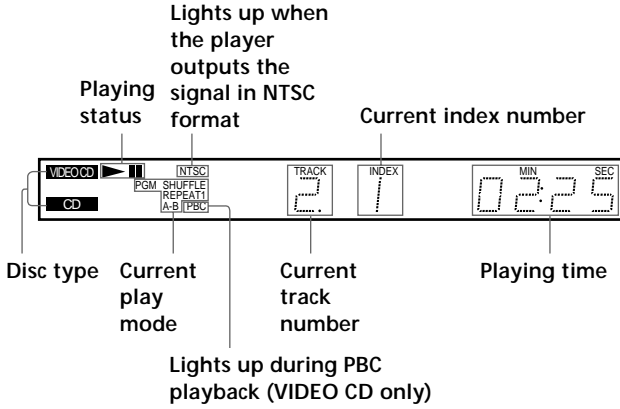
- On some DVDs, the chapter number or time may not appear or you may not be able to change the front panel display.
- While you are doing Shuffle Play or Program Play, the playing time of the title and the remaining time of the title are not displayed.

Using the Front Panel Display

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 31).

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



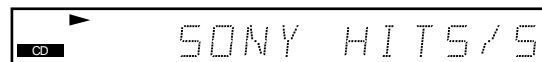
Press TIME/TEXT

Remaining time of the disc



Press TIME/TEXT

Text



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.

Using Various Functions with the Control Menu

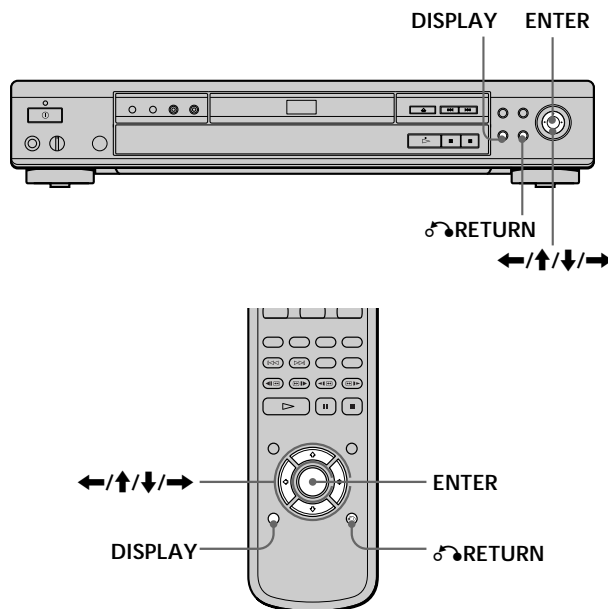
This chapter describes how to play discs in various modes and how to use the convenient features of the on-screen menu (Control Menu).

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.

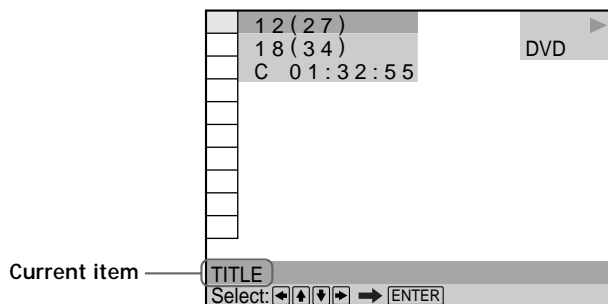
The possible operations are different depending on the kind of disc.

For details on each Control Menu display item, see pages 27 to 46.



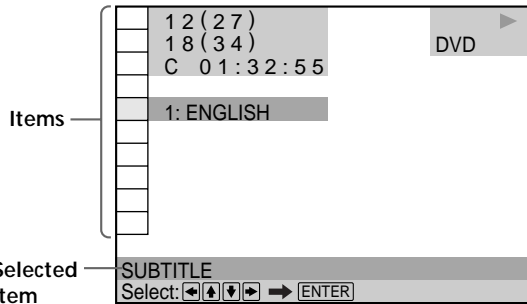
Using Various Functions with the Control Menu

- 1 Press DISPLAY to show the Control Menu display on the TV screen.

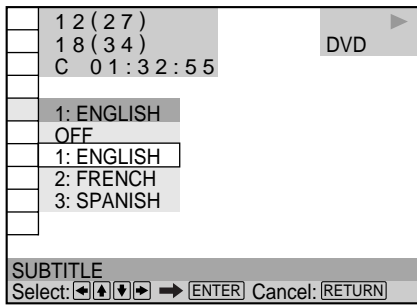


Using the Control Menu Display

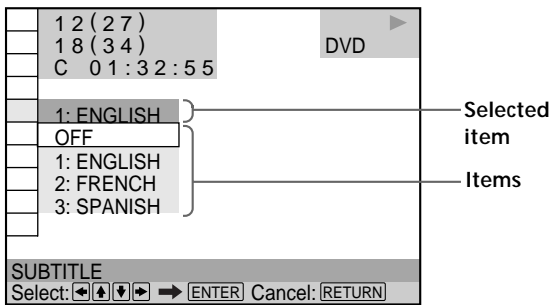
2 Select the item you want using ↑/↓.



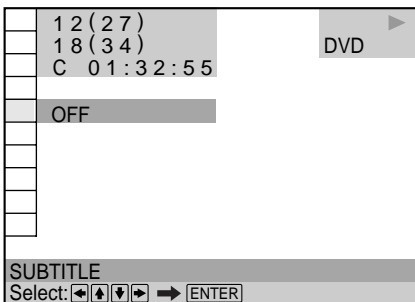
3 Press ENTER.



4 Select the item you want using ↑/↓.



5 Press ENTER.

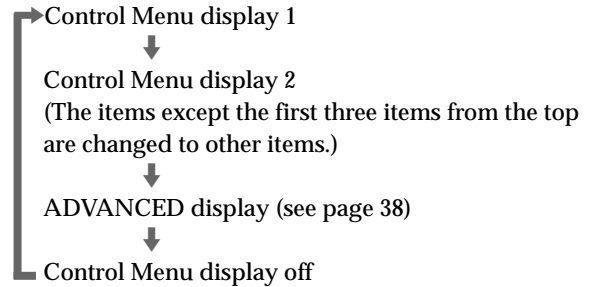


To cancel while making a selection

Press ⏪RETURN.

To display other items

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



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. In this case, only the item you selected is displayed. For instructions on using the remote, see the pages of each relevant item.

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

 **TITLE (DVD only) (page 28)/
SCENE (VIDEO CD during PBC playback
only) (page 28)/**

TRACK (VIDEO CD only) (page 28)

 **CHAPTER (DVD only) (page 28)/**

INDEX (VIDEO CD only) (page 28)

 **TRACK (CD only) (page 28)**

 **INDEX (CD only) (page 28)**

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

 **TIME/TEXT (pages 29, 30, 31)**

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 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 31)**

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, MPEG 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 34)**

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 34)**


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

 **VIRTUAL 3D SURROUND (page 35)**

Select one of the surround modes to enjoy multichannel Dolby Digital and MPEG audio 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 38)**

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

 **CUSTOM PARENTAL CONTROL (page 39)**

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

The same password is used for both Parental Control (page 53) and Custom Parental Control.

 **SETUP (page 47)**

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 47.

 **PROGRAM (page 40)**

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

 **SHUFFLE (page 42)**

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 43)

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

A-B REPEAT (page 44)

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

VIDEO EQUALIZER (DVD, VIDEO CD only) (page 46)

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 46)

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

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

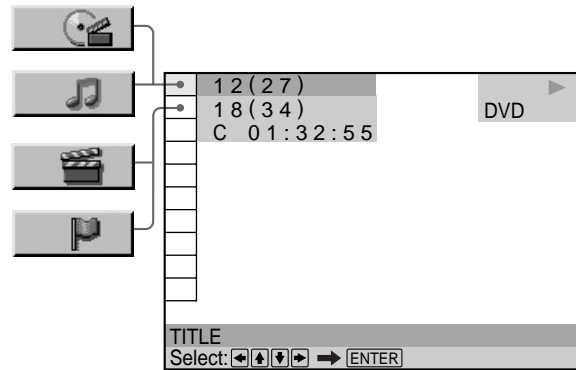


You can search the disc by title, chapter, track, index or scene.

Select "TITLE," "CHAPTER," "TRACK," "INDEX" or "SCENE" after pressing DISPLAY.

When you play back a DVD, "TITLE" and "CHAPTER" are displayed.

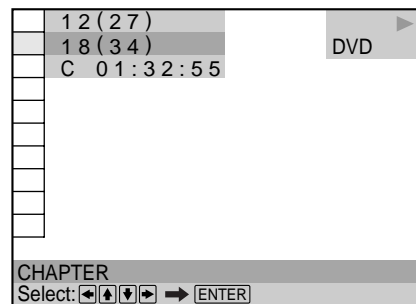
When you play back a VIDEO CD/CD, "TRACK" and "INDEX" are displayed. When you play back a VIDEO CD with PBC functions, "SCENE" is displayed.



1 Select "TITLE," "CHAPTER," "TRACK," "INDEX" or "SCENE" using /↓.

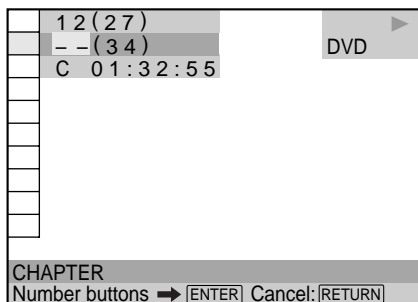
"** (**)" is highlighted (** refers to a number).

The number in parentheses indicates the total number of titles, chapters, tracks, indexes or scenes.



2 Press **→** or **ENTER**.

“***(***)” changes to “-- (***)”.



3 Select the number of the title, chapter, track, index or scene you want to search for using the number buttons, then press **ENTER**.

The player starts playback at the selected number.

To cancel the number, press **CLEAR** before pressing **ENTER**.

To cancel while making a selection

Press **↶** **RETURN**.

Notes

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

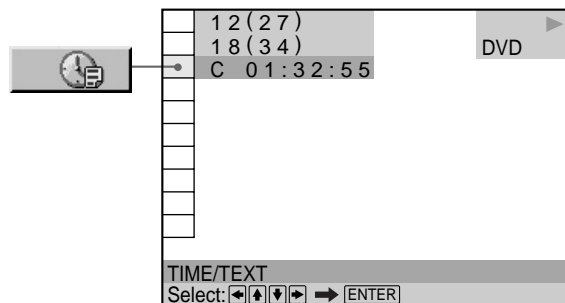
Checking the Playing Time and Remaining Time



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

Press **DISPLAY**. Then press **TIME/TEXT** on the remote to change the time information.

You can also check the **DVD TEXT** or **CD TEXT**. See page 31.



When playing a DVD

■ TIME/TEXT

- C ****:****: Playing time of the current chapter
- C-****:****: Remaining time of the current chapter
- T ****:****: Playing time of the current title
- T-****:****: Remaining time of the current title

When playing a VIDEO CD (during PBC playback)

■ TIME/TEXT

- ****:****: Playing time of the current scene

When playing a VIDEO CD (in continuous play) or CD

■ TIME/TEXT

- T ****:****: Playing time of the current track
- T-****:****: Remaining time of the current track
- D ****:****: Playing time of the current disc
- D-****:****: Remaining time of the current disc

You can select “TIME/TEXT” directly

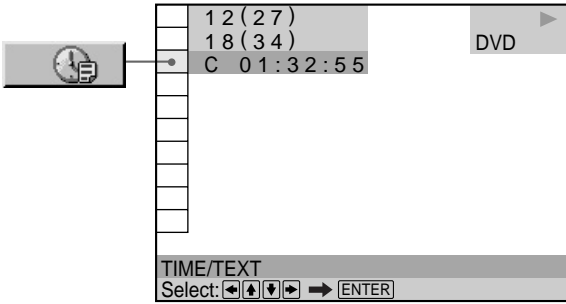
Press **TIME/TEXT** on the remote. Each time you press the button, the time information changes.

Selecting a Starting Point Using the Time Code

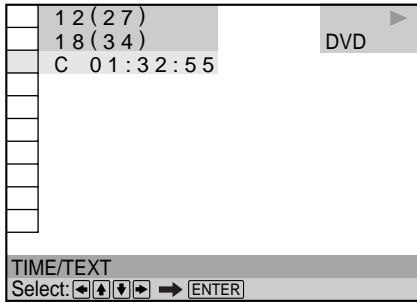


You can search for a starting point by inputting the time code.

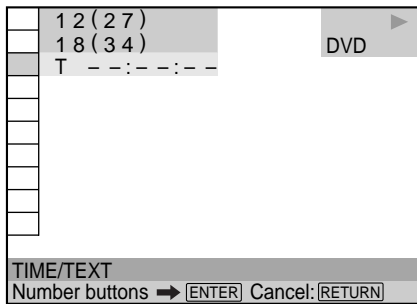
Select "TIME/TEXT" after pressing DISPLAY.
The time code corresponds to the approximate actual playing time. For example, to search for a scene 2 hours 10 minutes 20 seconds past the beginning, input 2:10:20.



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



2 Press → or ENTER.
Time code changes to "T - - : - - : - -".



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

To cancel while making a selection
Press ↵RETURN.

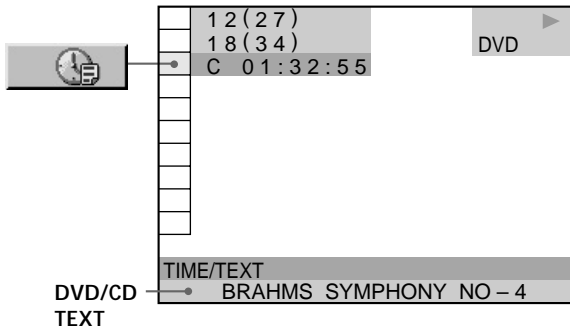
Note
When you input the time code, input the playing time of the title, not the chapter or track time.

Viewing the Disc Information



You can check the DVD TEXT or CD TEXT of the disc on the TV screen and the front panel display. DVD TEXT and CD TEXT are information recorded on the disc which you cannot change.

Press DISPLAY. Then press TIME/TEXT on the remote until DVD/CD TEXT is displayed. The information is displayed at the bottom of the display.



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

💡 You can view the entire DVD/CD TEXT recorded on the disc. DVD/CD TEXT is scrolled on the front panel display.

Notes

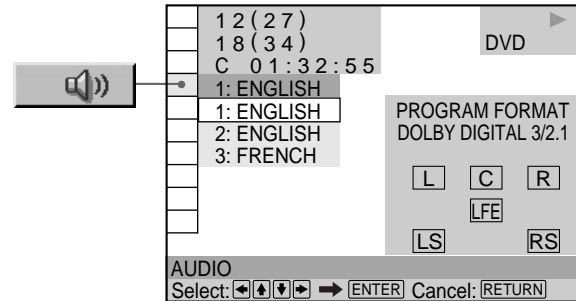
- DVD TEXT is displayed only in English.
- "NO TEXT" appears when the DVD/CD TEXT is not recorded on the disc.
- This player can only display the first level of DVD/CD TEXT information.

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, MPEG 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 70. 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.

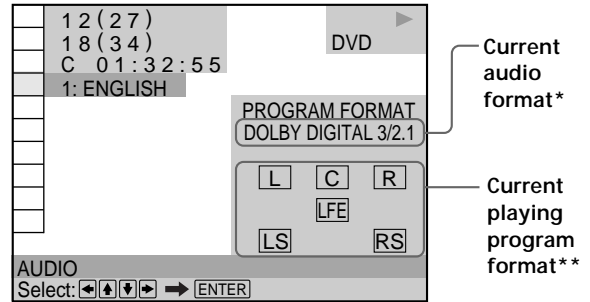
Notes

- 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 or close the disc tray
 - 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 or close the disc tray
 - you change the title
- If "DTS" is set to "OFF" in "AUDIO SETUP," the DTS track selection option will not appear on the screen even if the disc contains DTS tracks.

Displaying the audio information of the disc

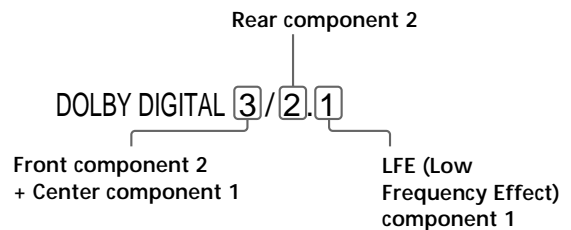
When you select "AUDIO," the channels being played are displayed on the screen.

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



* "PCM," "DTS," "DOLBY DIGITAL" or "MPEG" 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:

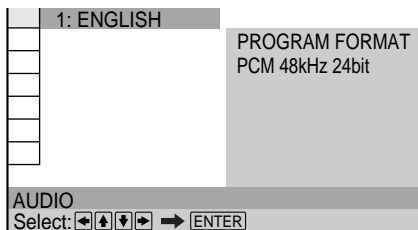


** The letters in the program format display mean the following:

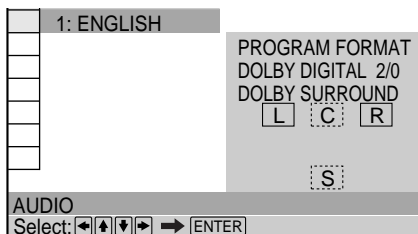
- L: Front (left)
- R: Front (right)
- C: Center (monaural)
- LS: Rear (left)
- RS: Rear (right)
- S: Rear (monaural) – the rear component of the Dolby Surround processed stereo signal and the Dolby Digital signal.
- LFE: LFE (Low Frequency Effect)

The display examples are as follows:

- PCM (stereo)

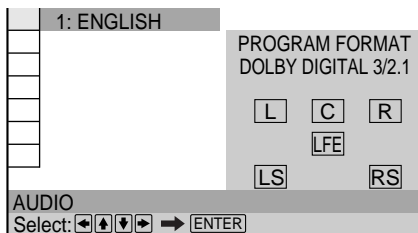


- Dolby Surround

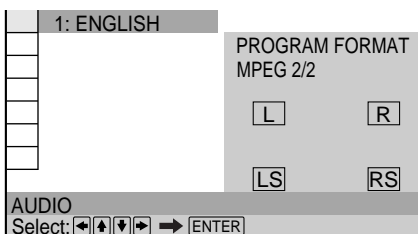


- Dolby Digital 5.1ch

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.

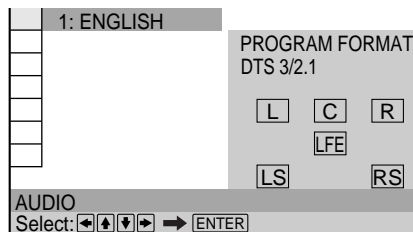


- MPEG



- DTS

"LFE" is always enclosed in a solid line regardless of the LFE signal component being output.



Note

When the signal contains rear signal components such as LS, RS or S, the Virtual 3D Surround effect is enhanced (page 35).

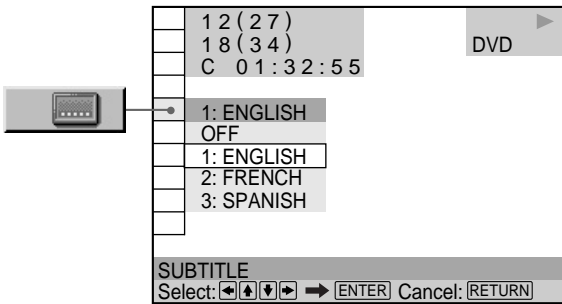
Displaying the Subtitles



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 70.



You can select "SUBTITLE" directly

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

Notes

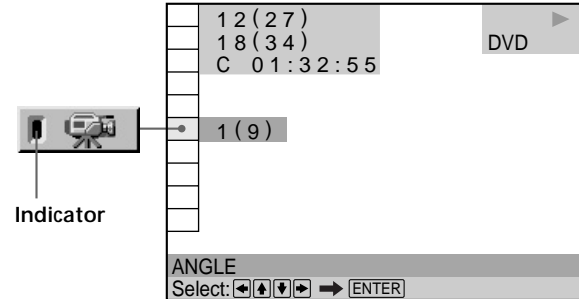
- When playing a DVD on which no subtitles are recorded, no subtitles appear.
- Depending on the DVD, you may not be able to turn the subtitles on even if they are recorded on the DVD.
- Depending on the DVD, you may not be able to turn the subtitles off.
- The type and number of languages for subtitles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

Changing the Angles

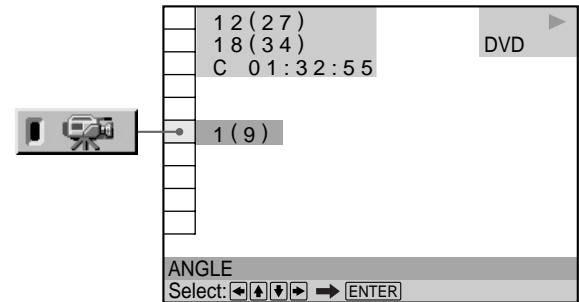


With DVDs on which various angles (multi-angles) for a scene are recorded, you can change the angles. For example, while playing a scene of a train in motion, you can display the view from either the front of the train, the left window of the train or from the right window without having the train's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

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

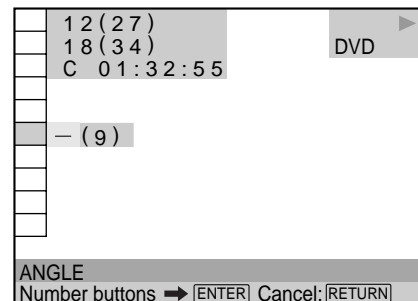


1 Select "ANGLE."



2 Press →.

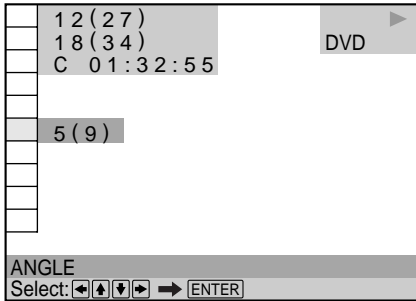
The number of the angle changes to "-". The number in parentheses indicates the total number of angles.



Digital Cinema Sound Settings



- Select the angle number using the number buttons or **↑/↓**, then press **ENTER**.
The angle is changed to the selected angle.



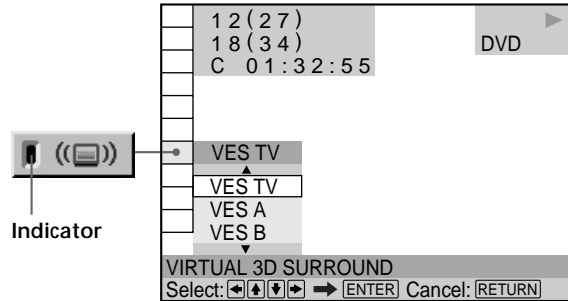
💡 You can select the angle directly
Press **ANGLE** on the remote. Each time you press the button, the angle changes.

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.

You can enjoy 3D surround sounds while playing discs, including Dolby Digital and MPEG audio 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 4 (or more) speakers, we recommend that you select an item other than those above.
- To enjoy the original Dolby Digital sound through the 5.1CH OUTPUT connectors, correctly set each speaker position and distance. For details on setting each speaker, see page 59.

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 "MPEG" to "PCM" in "AUDIO SETUP."

OFF

Outputs all channel signals recorded on the disc. For example, outputs 2-channel signals for stereo sound of the CD or 5.1-channel signals for Dolby Digital and MPEG audio sound of the DVD. When you connect fewer than 6 speakers, the player appropriately distributes the output signal for the missing speaker to other speakers.

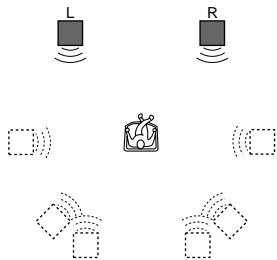
VES (Virtual Enhanced Surround) TV

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.



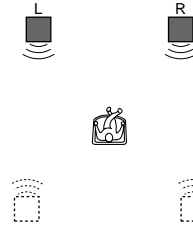
VES (Virtual Enhanced Surround) A

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.



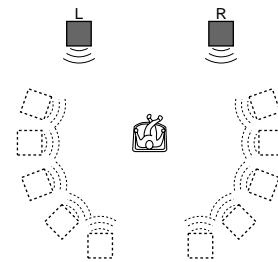
VES (Virtual Enhanced Surround) B

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:

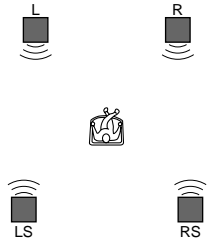
NORMAL SURROUND, ENHANCED SURROUND, VIRTUAL REAR SHIFT, VIRTUAL MULTI REAR, VIRTUAL MULTI DIMENSION.

OFF

Outputs all channel signals recorded on the disc. For example, outputs 2-channel signals for stereo sound of the CD or 5.1-channel signals for Dolby Digital and MPEG audio sound 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.

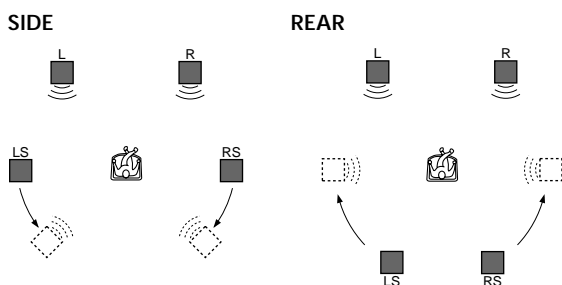


ENHANCED SURROUND

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.

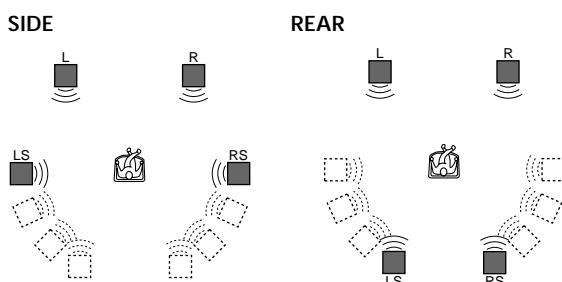
VIRTUAL REAR SHIFT

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 59).



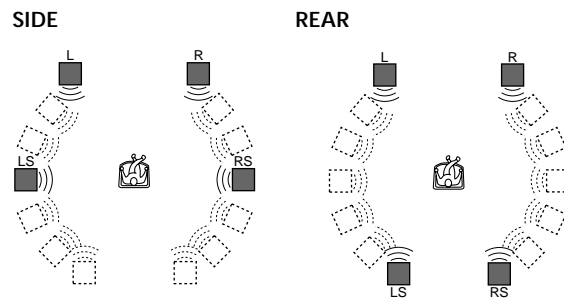
VIRTUAL MULTI REAR

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 59).




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 59).



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

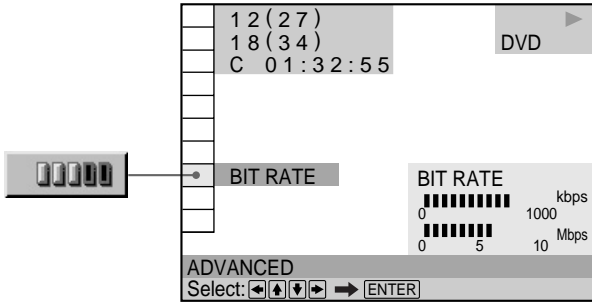
- When you select an item, the sound cuts off for a moment.
- When the playing signal does not contain a signal for the rear speakers, the 3D surround effects may be difficult to hear.
- Set the front speakers to form an equilateral triangle with the listening position at the top. Otherwise the effects may be difficult to hear even if you select "VES A," "VES B" or "VIRTUAL SEMI MULTI DIMENSION."
- When you connect 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.
- 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.

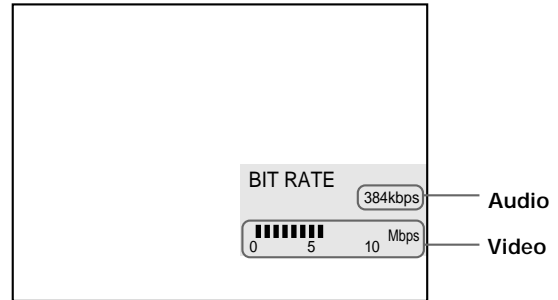
When playing a DVD

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

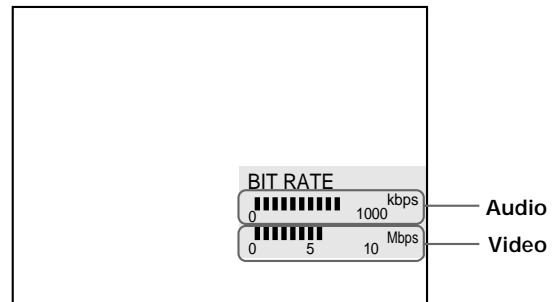
Displays of each item

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

BIT RATE



When you play MPEG audio sound tracks



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

LAYER



Appears when the DVD has dual layers

Indicates the approximate point where the disc is playing. If it is a dual-layer DVD, the player indicates which layer is being read ("Layer 0" or "Layer 1"). For details on the layers, see page 68 (DVD).

Locking Discs (Custom Parental Control)

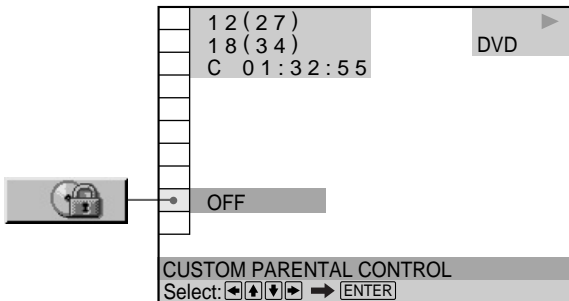


Using a registered password, you can set playback restrictions for the desired disc.

You can set the same Custom Parental Control password for up to 50 discs. When you set the fifty-first disc, the first disc is canceled.

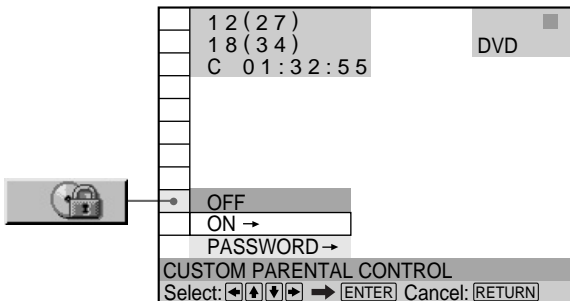
The same password is used for both Parental Control (page 53) and Custom Parental Control.

Select "CUSTOM PARENTAL CONTROL" after pressing DISPLAY.



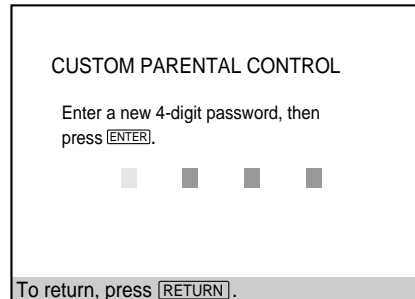
Setting the Custom Parental Control for a disc

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

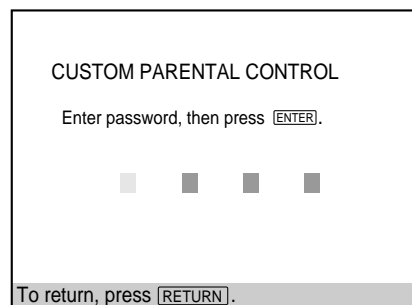


- 3 Select "ON→" using ↑/↓, then press ENTER.

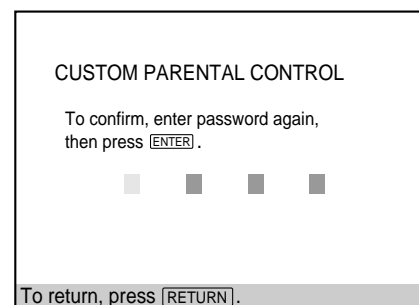
- If you have not entered a password
The display for entering a password appears.



- 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 "CUSTOM PARENTAL CONTROL" using **↑/↓**, then press **ENTER**.
- 2 Select "OFF→" using **↑/↓**, then press **ENTER**.
- 3 Enter your 4-digit password using the number buttons, then press **ENTER**.

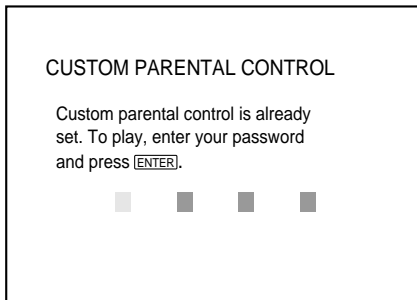
To change the password

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

Playing the disc for which the Custom Parental Control is set

1 Insert the disc.

The CUSTOM PARENTAL CONTROL display appears.



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

The player starts playback.

💡 If you forget your password

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

Note

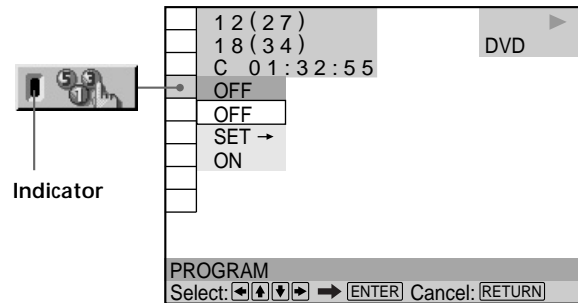
Unless you enter the password, the player cannot play the disc for which the Custom Parental Control is set. When you do not know the password, press **⏏** and remove the disc.

Creating Your Own Program (Program Play)



You can play the contents of the disc in the order you want by arranging the order of the titles, chapters or tracks on the disc and create your own program. One program can be stored in the player and contain up to 99 titles, chapters and tracks.

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



■ PROGRAM

The default setting is underlined.

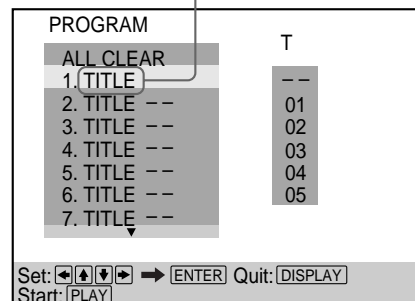
- OFF: plays normally.
- SET→: allows you to create your own program.
- ON: plays Program Play.

Creating the program

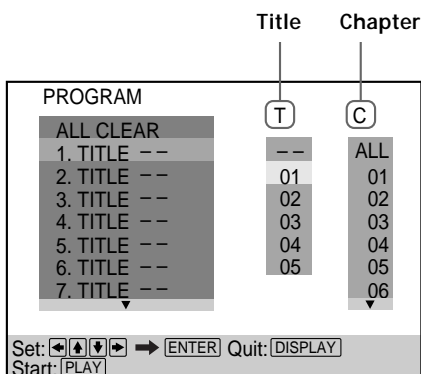
1 Select "SET→" in "PROGRAM."

The programming display appears.

"TRACK" is displayed when you play a VIDEO CD or a CD.

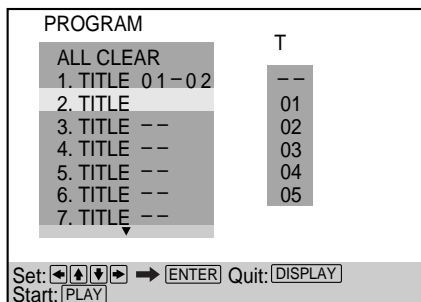
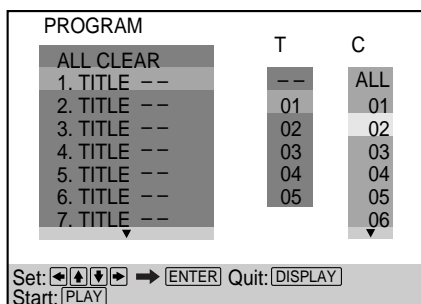


- 2** Press **→**.
 “01” is highlighted. It is ready to set the first title or track for Program Play.

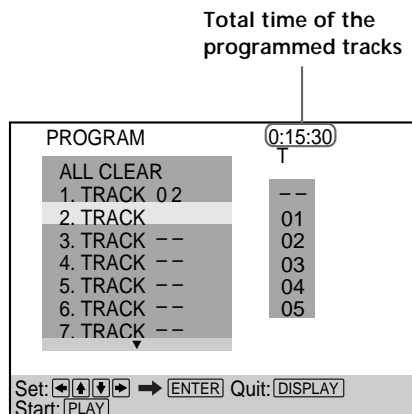


- 3** Select the title, chapter or track you want to program using **↑/↓**, then press **ENTER**.
 For example, select title or track 2.
 (You can also use the number buttons and **ENTER** button to make a selection. In this case, the selected number is displayed on the screen.)

- **When playing a DVD**
 When both titles and chapters are recorded on the disc, select the title, then the chapter.



- **When playing a VIDEO CD or CD**
 Select the track you want to program.



- 4** To program other titles, chapters or tracks, repeat Step 3.
 The programmed titles, chapters or tracks are displayed in the selected order.
- 5** Press **▷** to start Program Play.


To stop Program Play
 Press **CLEAR** on the remote.


To cancel programming
 Press **PROGRAM** on the remote.


- To change the program**
- In Step 2, select the program number of the title, chapter or track you want to change using **↑/↓**.
 - Follow Step 3 for new programming.


To cancel the programmed order
 To cancel all the titles, chapters or tracks in the programmed order, select “ALL CLEAR” in Step 2.
 To cancel the selected program, select the program using **↑/↓** in Step 2 then press **CLEAR**, or select “--” in Step 3 then press **ENTER**.

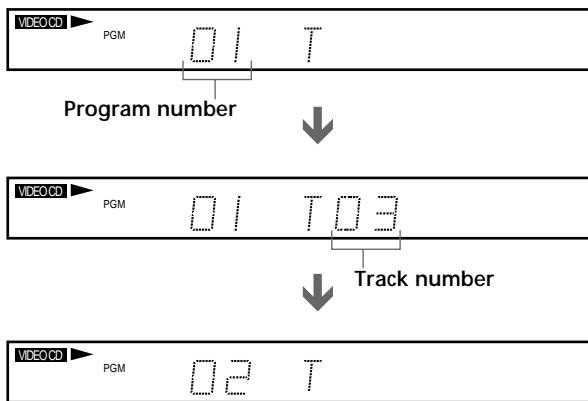
Creating Your Own Program (Program Play)

 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 on the remote. Or set "REPEAT" or "SHUFFLE" to "ON" in the Control Menu display.

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

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



Notes

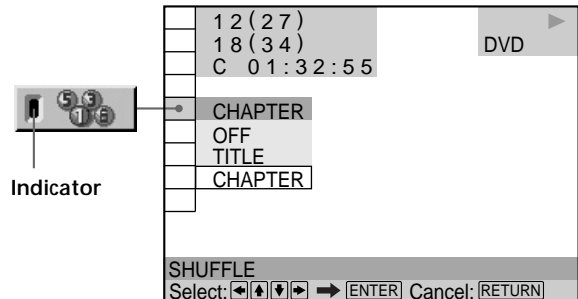
- The number of titles, chapters or tracks displayed are the same number of titles, chapters or tracks recorded on a disc.
- The program is canceled when:
 - you open or close the disc tray
 - the player enters standby mode by pressing \mathbb{I}/power on the remote
 - you turn the power off by pressing power on the player
- Depending on the DVD, you may not be able to perform Program Play.
- If you are using the PBC playback function, you must first stop the disc before you can set a program.

Playing in Random Order (Shuffle Play)



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

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 a disc in random order.
- TITLE: has the player "shuffle" titles and play them in a random order.
- CHAPTER: has the player "shuffle" chapters and play them in a random order.

When playing a VIDEO CD or CD (when Program Play is set to OFF)


- OFF: does not play a disc in random order.
- TRACK: has the player "shuffle" tracks and play them in a random order.


When playing a VIDEO CD, CD or DVD (when Program Play is set to ON)

- OFF: does not play a disc in random order.
- ON: has the player "shuffle" titles or tracks selected in Program Play and play them in a random order.

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 \triangleright . 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.

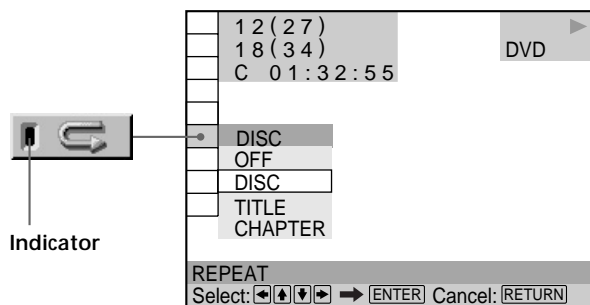
Notes

- Shuffle Play is canceled when:
 - you open or close the disc tray
 - the player enters standby mode by pressing I/\cup on the remote
 - you turn the power off by pressing O on the player
- Depending on the DVD, you may not be able to perform Shuffle Play.
- Up to 200 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 22).

Playing Repeatedly (Repeat Play)

You can play 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. You cannot perform Repeat Play during PBC playback of VIDEO CDs (page 22).

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 of the titles.
- 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 of the tracks on a disc.
- 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.

Playing Repeatedly (Repeat Play)

 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 or close the disc tray
 - 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.

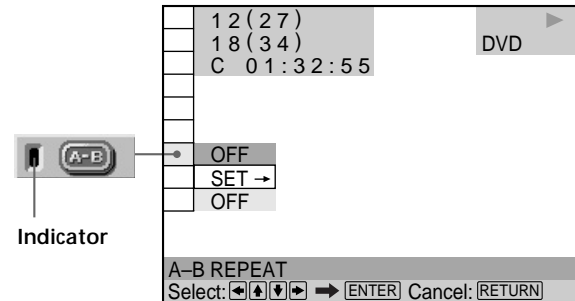
Repeating a Specific Portion (A-B Repeat)



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 22), 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.



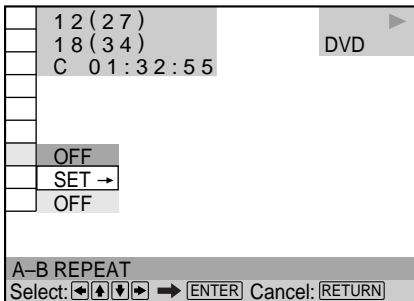
■ A-B REPEAT

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.

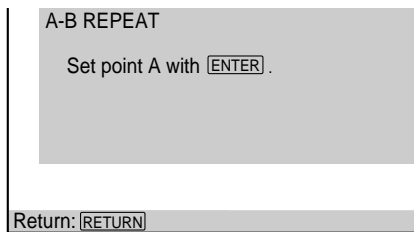
Setting a portion for A-B repeat

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



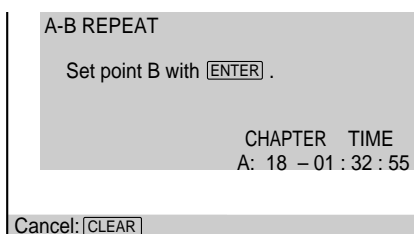
- 2 Select "SET→" and press ENTER.

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.

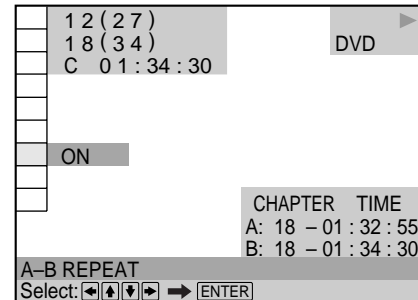
The starting point (point A) is set.



- 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

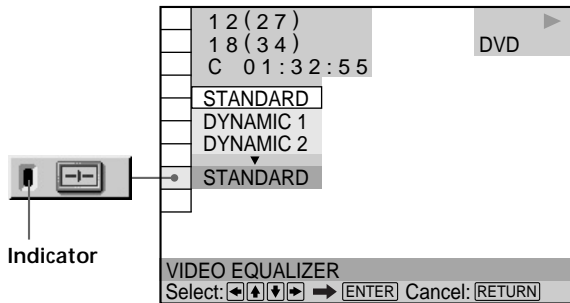
- You can set A-B Repeat for only one specific portion.
- A-B Repeat is canceled when:
 - you open or close the disc tray
 - the player enters standby mode by pressing I/⏻ on the remote
 - you turn the power off by pressing ⏻ on the player
- When you set A-B Repeat, the settings for Shuffle Play, Repeat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

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.

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.



When you watch a movie

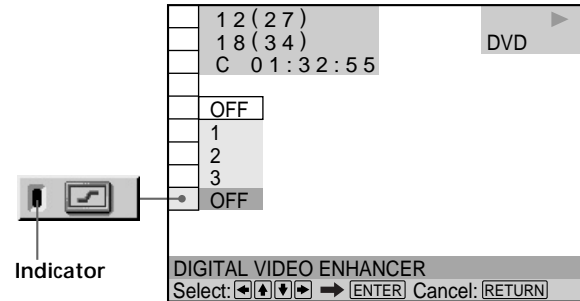
CINEMA 1 or CINEMA 2 is recommended.

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.

Note

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

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 control the TV using the supplied remote.

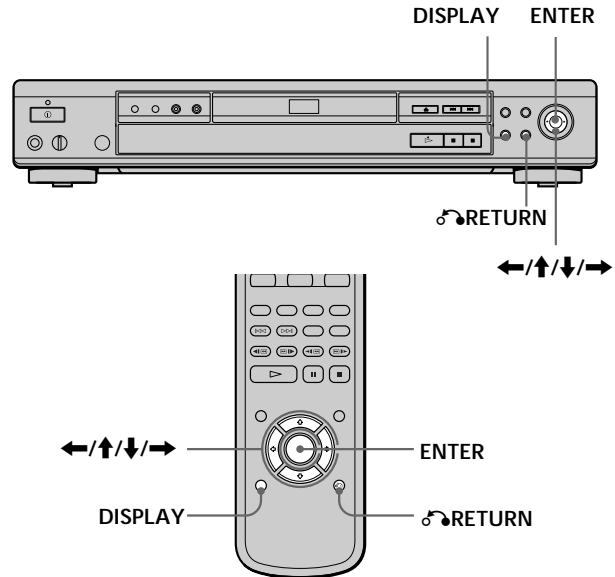
Using the Setup Display



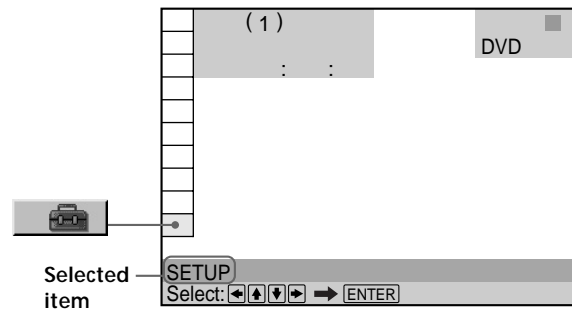
Using the setup display, you can do the initial setup, adjust the picture and sound and set the various outputs. You can also set a language for the subtitles and the setup display, limit playback by children, and so on. For details on each setup display item, see pages 49 to 61.

Note

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

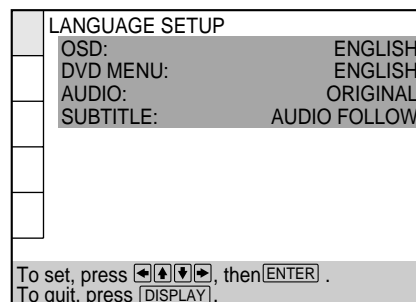


- 1 Press DISPLAY and select "SETUP" using \uparrow/\downarrow .



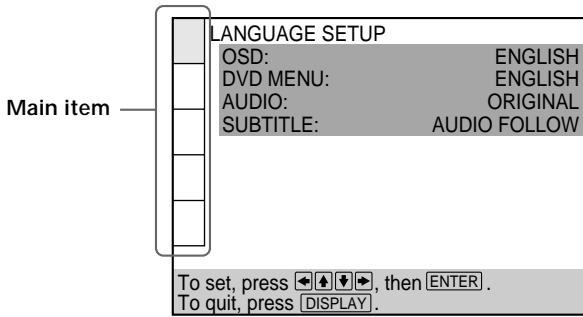
- 2 Press ENTER.

The setup display appears.



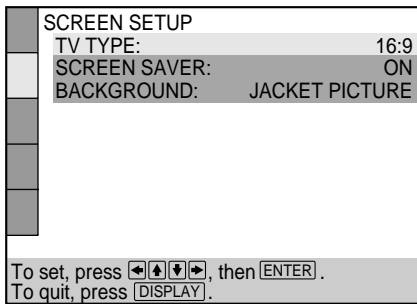
Using the Setup Display

3 Select the main item you want using **↑/↓**.

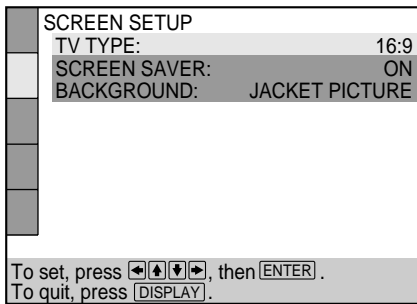


4 Press **ENTER**.

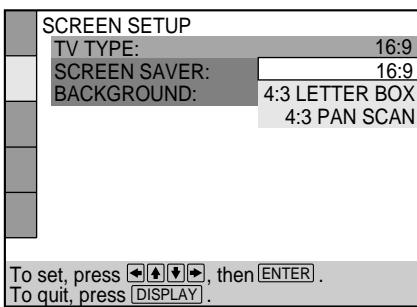
The selected main item is highlighted.



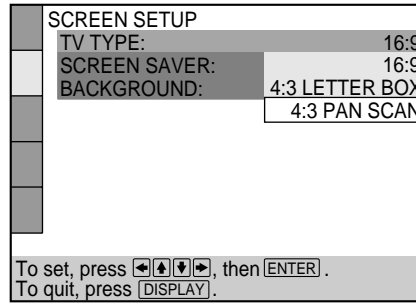
5 Select the item you want using **↑/↓**.



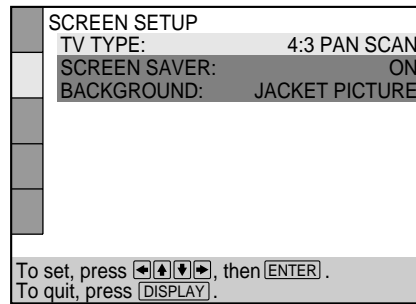
6 Press **ENTER**.



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

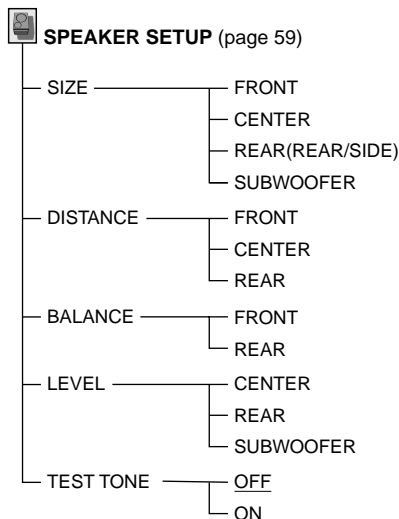
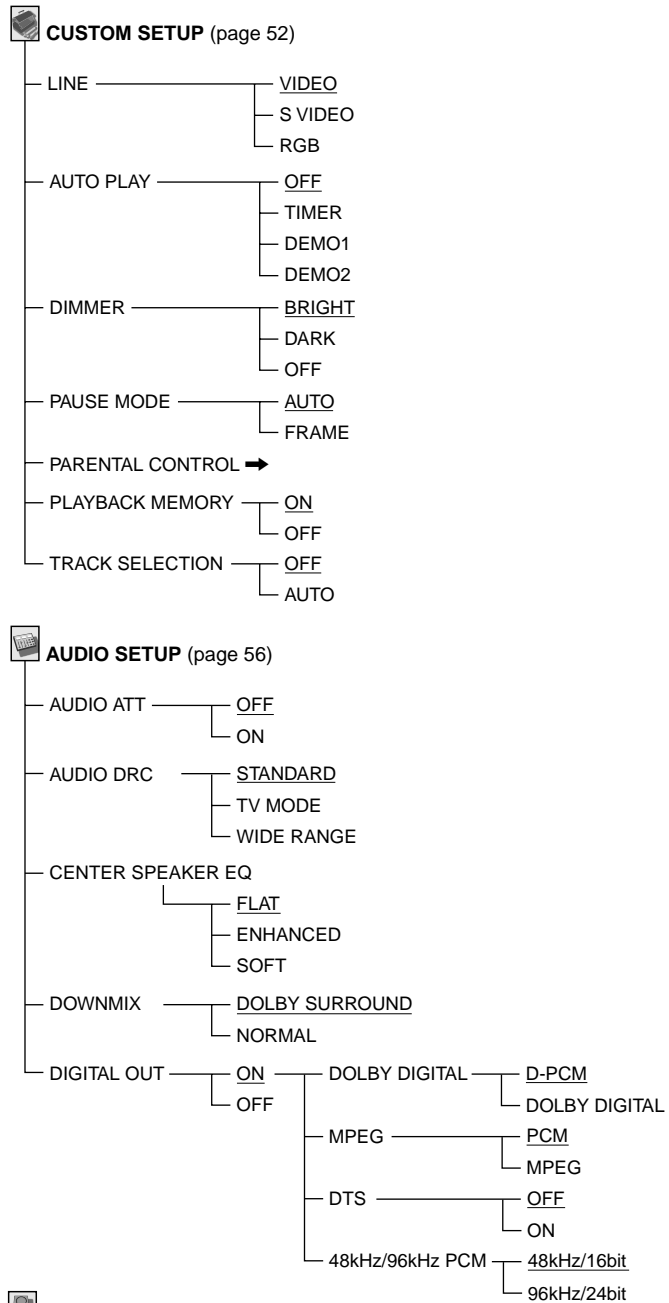
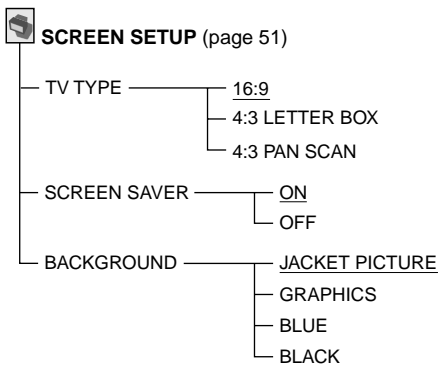
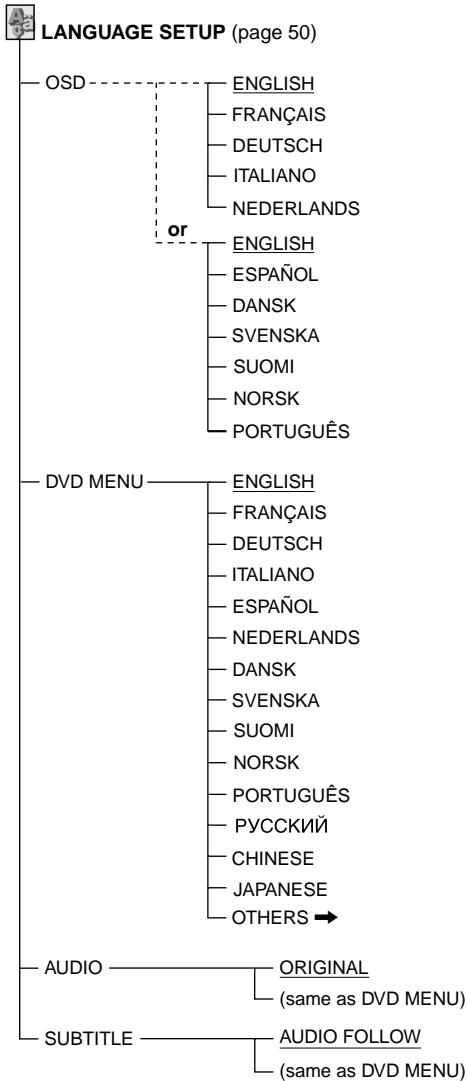
Press **DISPLAY**.

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

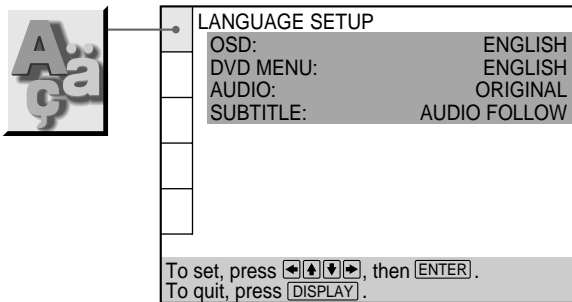
The default settings are underlined.



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. The languages you can select are different depending on the player model.

Type A

- ENGLISH (English)
- FRANÇAIS (French)
- DEUTSCH (German)
- ITALIANO (Italian)
- NEDERLANDS (Dutch)

Type B

- ENGLISH (English)
- ESPAÑOL (Spanish)
- DANSK (Danish)
- SVENSKA (Swedish)
- SUOMI (Finnish)
- NORSK (Norwegian)
- PORTUGUÊS (Portuguese)

■ DVD MENU

Selects the language for the DVD menu. The language order is different depending on the player model.

- ENGLISH (English)
- FRANÇAIS (French)
- DEUTSCH (German)
- ITALIANO (Italian)
- ESPAÑOL (Spanish)
- NEDERLANDS (Dutch)
- DANSK (Danish)
- SVENSKA (Swedish)
- SUOMI (Finnish)
- NORSK (Norwegian)
- PORTUGUÊS (Portuguese)
- РУССКИЙ (Russian)
- CHINESE (Chinese)
- JAPANESE (Japanese)
- OTHERS➡

When you select “OTHERS➡,” select and enter the language code from the list using the number buttons (page 70). After you have made a selection, the language code (4 digits) is displayed.

■ AUDIO

Selects the language for the sound track. The language order is different depending on the player model.

- ORIGINAL: the language given priority in the disc
- ENGLISH (English)
- FRANÇAIS (French)
- DEUTSCH (German)
- ITALIANO (Italian)
- ESPAÑOL (Spanish)
- NEDERLANDS (Dutch)
- DANSK (Danish)
- SVENSKA (Swedish)
- SUOMI (Finnish)
- NORSK (Norwegian)
- PORTUGUÊS (Portuguese)
- РУССКИЙ (Russian)
- CHINESE (Chinese)
- JAPANESE (Japanese)
- OTHERS➡

When you select “OTHERS➡,” select and enter the language code from the list using the number buttons (page 70). After you have made a selection, the language code (4 digits) is displayed.

■ SUBTITLE

Selects the language for the subtitles. The language order is different depending on the player model.

- AUDIO FOLLOW*
- ENGLISH (English)
- FRANÇAIS (French)
- DEUTSCH (German)
- ITALIANO (Italian)
- ESPAÑOL (Spanish)
- NEDERLANDS (Dutch)
- DANSK (Danish)
- SVENSKA (Swedish)
- SUOMI (Finnish)
- NORSK (Norwegian)
- PORTUGUÊS (Portuguese)
- РУССКИЙ (Russian)
- CHINESE (Chinese)
- JAPANESE (Japanese)
- OTHERS➡

When you select “OTHERS➡,” select and enter the language code from the list using the number buttons (page 70). 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.

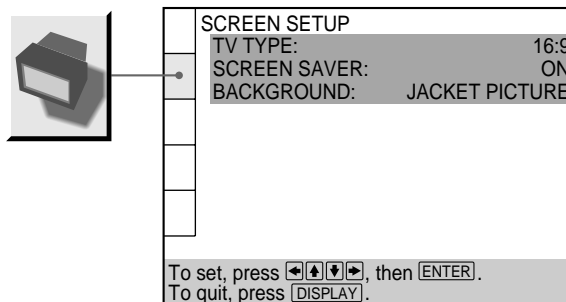
Settings for the Display (SCREEN SETUP)



“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.

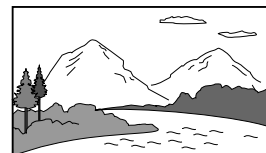


■ TV TYPE

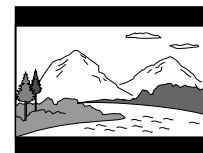
Selects the aspect ratio of the TV to be connected.

- 16:9: select this when you connect a wide-screen TV to the player.
- 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.

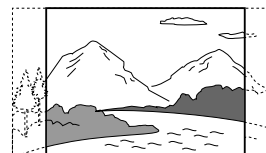
16:9



4:3 LETTER BOX



4:3 PAN SCAN



Note

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

Settings for the Display (SCREEN SETUP)

■ 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.
- 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.

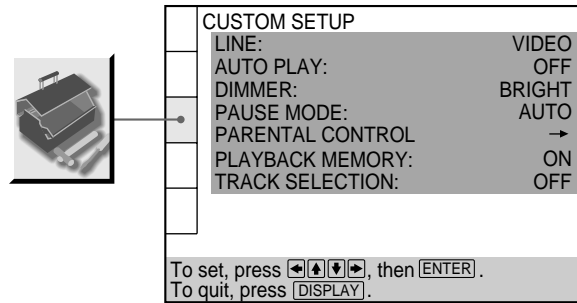
Custom Settings (CUSTOM SETUP)



"CUSTOM SETUP" allows you to set the playback conditions.

The default settings are underlined.

Select "CUSTOM SETUP" in the setup display.



■ LINE

Selects the methods of outputting video signals from the LINE-1 (RGB)-TV connector on the rear panel of the player.

- VIDEO: outputs the video signals.
- S VIDEO: outputs the S video signals.
- RGB: outputs the RGB signals.

Notes

- If your TV does not conform to the S video or the RGB signals, no picture appears on the TV screen even if you select "S VIDEO" or "RGB." Refer to the instructions supplied with your TV.
- If your TV has only one SCART (EURO AV) connector, do not select "S VIDEO."

■ AUTO PLAY

Selects the Auto Play setting when you connect the mains lead to the mains.

- OFF: does not use "TIMER," "DEMO1" or "DEMO2" to start playback.
- TIMER: starts playing 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.

■ **PARENTAL CONTROL** →

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

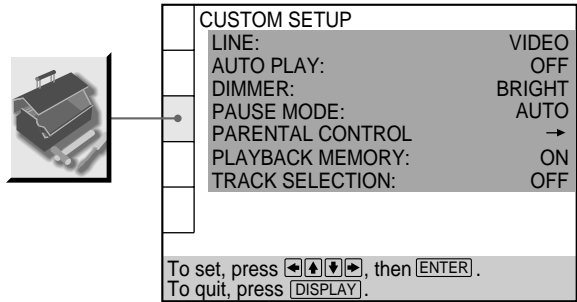
The same password is used for both Parental Control and Custom Parental Control (page 39).

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

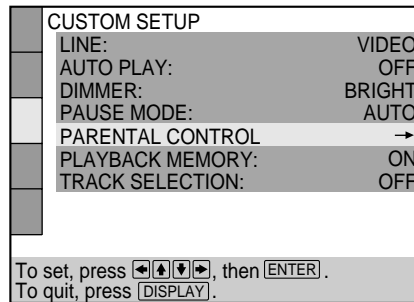
Limiting Playback by Children (Parental Control) DVD

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.

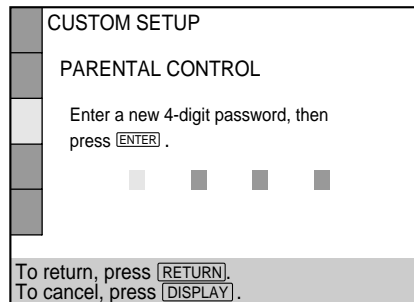


1 Select “PARENTAL CONTROL” using ↑/↓, then press ENTER.



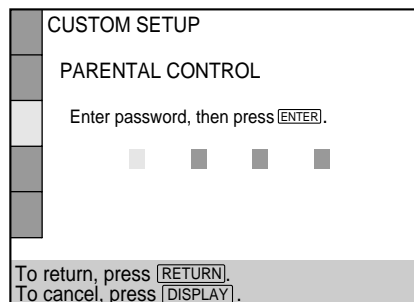
■ **When you have not entered a password**

The display for entering a password appears.



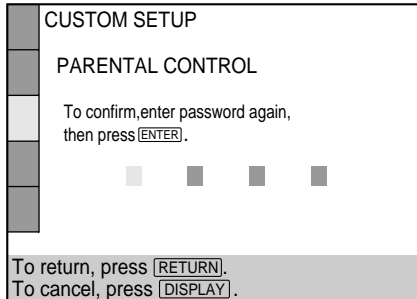
■ **When you have already registered a password**

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

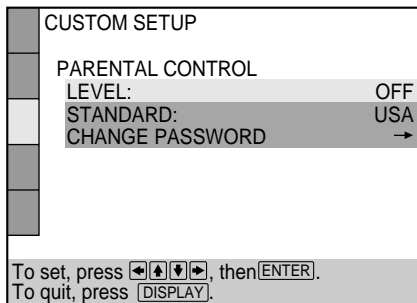


Custom Settings (CUSTOM SETUP)

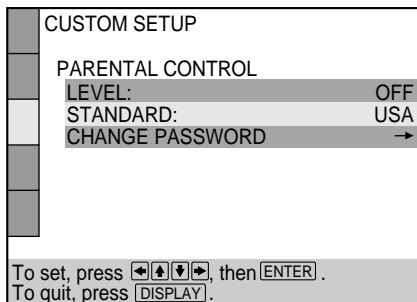
- 2** Enter a password in 4 digits using the number buttons, then press ENTER.
The digits change to asterisks (*), and the display for confirming the password appears.



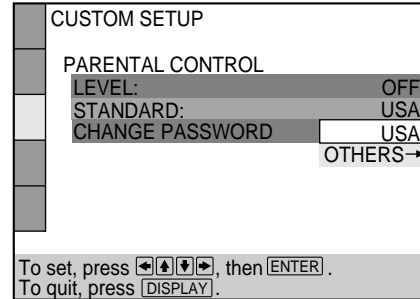
- 3** To confirm your password, enter it again using the number buttons, then press ENTER.
The display for setting the playback limitation level and changing the password appears.



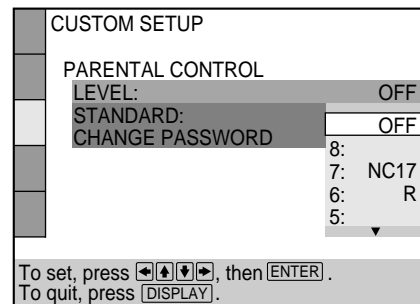
- 4** Select "STANDARD" using ↑/↓, then press →.



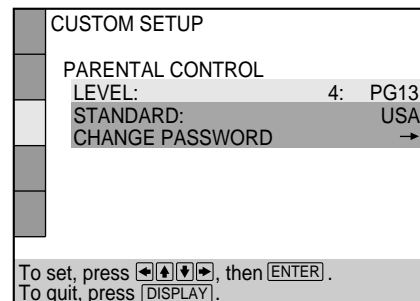
- 5** Select a geographic area as the playback limitation level standard using ↑/↓, then press →.
When you select "OTHERS→," select and enter the standard code in the table on the next page using the number buttons.



- 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 \uparrow/\downarrow , then press \rightarrow 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 \triangleright .

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 39) .

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 50 discs (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 31)*
- SUBTITLE (page 34)*
- ANGLE (page 34)*
- VIRTUAL 3D SURROUND (page 35)
- VIDEO EQUALIZER (page 46)
- DIGITAL VIDEO ENHANCER (page 46)
- * DVD only

Notes

- The player can store the settings of up to 50 discs. When you store the setting of disc number 51, the first disc setting is canceled.
- Depending on the DVD, the information stored in the disc takes priority over the Playback Memory settings and the function does not work.
- Do not turn off the player by pressing ⓪. 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 ⓪ 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, MPEG audio or Dolby Digital format) are recorded.

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

Notes

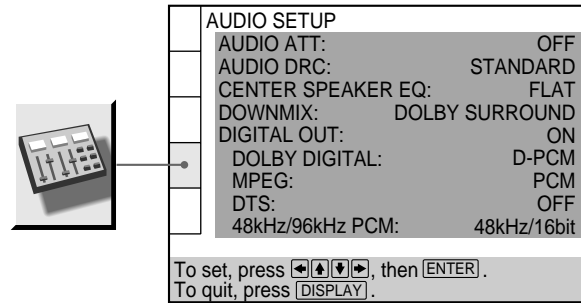
- When you set this item to "AUTO," the language may change depending on the "AUDIO" settings in "LANGUAGE SETUP." The "TRACK SELECTION" setting has higher priority than the "AUDIO" settings in "LANGUAGE SETUP" (page 50).
- If you set "DTS" in "AUDIO SETUP" to "OFF", the DTS sound track is not played even if you set this item to "AUTO" and the highest-numbered audio channel is recorded in DTS format.
- If PCM, DTS, MPEG audio and Dolby Digital sound tracks have the same number of channels, the player selects PCM, DTS, Dolby Digital and MPEG audio 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, MPEG audio 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 and LINE-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" and "MPEG" is set to "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 5.1CH OUTPUT for this function to work.

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

■ DOWNMIX

Switches the mixing down methods when you play a DVD on which rear signal components such as LS, RS, or S are recorded in Dolby Digital format. For details on the rear signal components, see “Displaying the audio information of the disc” (page 32).

This affects the output from the DIGITAL OUT connectors only when “DOLBY DIGITAL” is set 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,” “MPEG,” “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,” “MPEG,” “DTS” and “48kHz/96kHz PCM.”

Setting the Digital Output Signal

Switches the methods of outputting audio signals when you, connect 1. a digital component such as a receiver (amplifier) having a digital connector, 2. an audio component having a built-in decoder (Dolby Digital, MPEG 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,” “MPEG,” “DTS” and “48kHz/96kHz PCM” if you set “DIGITAL OUT” to “OFF.”

AUDIO SETUP	
AUDIO ATT:	OFF
AUDIO DRC:	STANDARD
CENTER SPEAKER EQ:	FLAT
DOWNMIX:	DOLBY SURROUND
DIGITAL OUT:	ON
DOLBY DIGITAL:	D-PCM
MPEG:	PCM
DTS:	OFF
48kHz/96kHz PCM:	48kHz/16bit
To set, press     , then ENTER .	
To quit, press DISPLAY .	

■ DOLBY DIGITAL

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

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

Settings for the Sound (AUDIO SETUP)

■ MPEG

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

- **PCM**: when the player is connected to an audio component lacking a built-in MPEG decoder. If you play MPEG audio sound tracks, the player outputs stereo signals via the DIGITAL OUT OPTICAL and COAXIAL connectors.
- **MPEG**: when the player is connected to an audio component having a built-in MPEG decoder. If the player is connected to an audio component lacking a built-in MPEG decoder, do not set this. Otherwise, when you play the MPEG audio 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.

- **OFF**: when the player is connected to an audio component lacking a built-in DTS decoder.
- **ON**: when the player is connected to an audio component having a built-in DTS decoder. If the player is connected to an audio component lacking a built-in DTS decoder, do not set this. Otherwise, when you play the DTS sound track, a loud noise or no sound will come out from the speakers, affecting your ears or causing the speakers to be damaged.

■ 48kHz/96kHz PCM (DVD only)

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

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

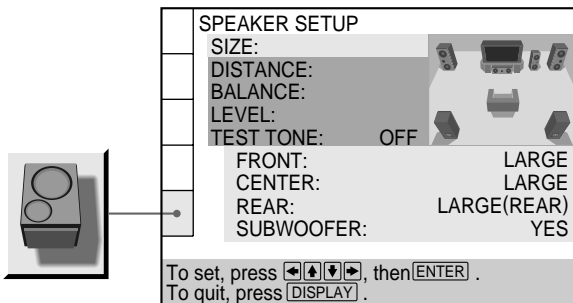
Notes

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

Settings for the Speakers (SPEAKER SETUP)

To obtain the best possible surround sound when you use the 5.1CH OUTPUT connectors, use the SPEAKER SETUP display to first specify the size of the speakers you have connected and their distance from your listening position. Then set the balance and level. Use the test tone to adjust the volume of the speakers to the same level. For speaker hookup instructions, see page 13. 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 a rear speaker, 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.

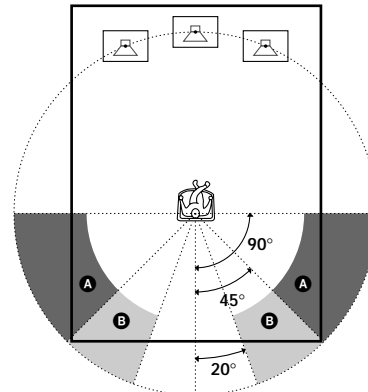
- SUBWOOFER
 - NONE: If you do not connect a subwoofer, select this. This activates the Dolby Digital bass redirection circuitry and outputs the LFE signals from the front speakers as long as the front speaker size is set to "LARGE."
 - YES: If you connect a subwoofer, select this to output the LFE (low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



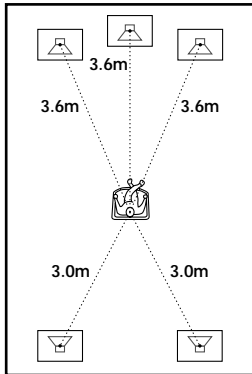
Notes

- 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 (3.6m)**
Front speaker distance can be set in 0.2 meter increments from 1 to 15 meters. Distance is measured from the front speaker to the listening position.
- **CENTER (3.6m)**
Center speaker distance can be set in 0.2 meter increments. Place the center speaker directly between the front speakers. You can move it up to 0.6 meters backwards or 1.6 meters forwards if necessary.
- **REAR (3.0m)**
Rear speaker distance can be set in 0.2 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 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 5.1CH OUTPUT connectors and adjust the BALANCE and LEVEL.

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

Note

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


Adjusting the speaker volume

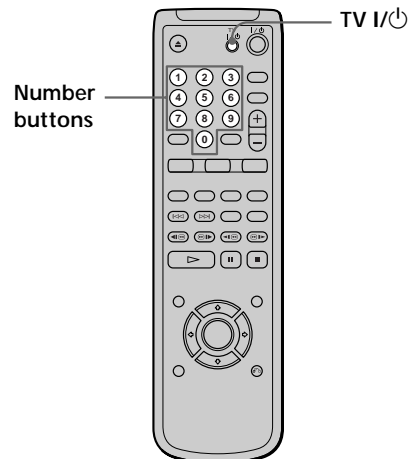
- 1 After you stop playback, select "SPEAKER SETUP" in the setup display.
- 2 Select "TEST TONE" and set "TEST TONE" to "ON." You will hear the test tone from each speaker in sequence.
- 3 From your listening position, select "BALANCE" or "LEVEL" and adjust the value of "BALANCE" using ←/→ and "LEVEL" using ↑/↓. The test tone is emitted from both left and right speakers simultaneously.
- 4 Select "TEST TONE" and set "TEST TONE" to "OFF" to turn off the test tone.

To adjust the volume of all the speakers at one time

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

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. The default setting is to control Sony TVs with the  mark.



Controlling TVs or AV receivers (amplifiers) with the remote

Hold down TV I/⏻, and enter your TV's or AV receiver's manufacturer's code (see the table on the next page) using the number buttons. Then release TV I/⏻.

Code numbers of controllable TVs or 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 TV or AV receiver (amplifier).

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

TV

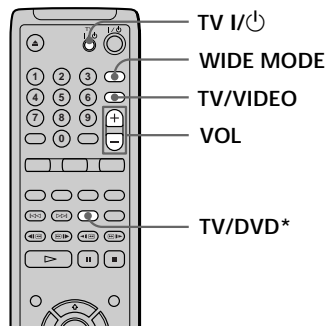
Manufacturer	Code number
Sony (default)	01
Grundig	11
Hitachi	24
Loewe	45
Nokia	15, 16, 69
Panasonic	17, 49
Philips	06, 07, 08
Saba	12, 13
Samsung	22, 23
Sanyo	25
Sharp	29
Telefunken	36
Thomson	43
Toshiba	38

AV receiver (amplifier)

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

Controlling the TV

You can control your TV using the buttons below.



By pressing	You can
TV I/⏻	Turn the TV on or off
TV/VIDEO	Switch the TV's input source between the TV and other input sources
TV/DVD*	Switches the TV's input source between the TV and CD/DVD player
VOL	Adjust the volume of the TV
WIDE MODE	Switch to or from the wide mode of a Sony Wide TV

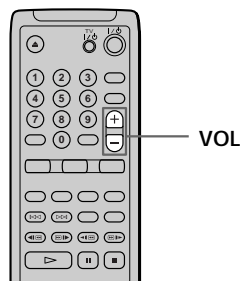
* If you connect the player to the TV via the SCART (EURO AV) connectors, the input source for the TV is set to the player automatically when you start playback or press any button except for TV I/⏻. In this case, press TV/DVD to return the input to the TV.

Note

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

Controlling the AV receiver (amplifier)

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).

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 mains lead 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 video input, if your TV is equipped with this input. (page 9)

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.

The picture is black and white.

- ➔ In the setup display, set "LINE" in "CUSTOM SETUP" to the appropriate item that conforms to your TV. (page 52)
- ➔ Depending on the TV, the picture on the screen becomes black and white when you play a disc recorded in the NTSC color system.

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 11)
- ➔ 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 13, 59). 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 57)
- ➔ When you play DTS sound tracks, sound will only come out from the DIGITAL OUT OPTICAL or COAXIAL connector. (page 18)

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 18)

Sound distortion occurs.

- ➔ In the setup display, set "AUDIO ATT" in "AUDIO SETUP" to "ON." (page 56)

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 31)
- ➔ Make sure you connect the player correctly. (pages 8, 11, 13)

The surround effect is difficult to hear when you are playing a Dolby Digital or MPEG sound track.

- ➔ Check the speaker connections and setting (pages 13, 59). 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 MPEG 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 35)

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 disc does not play.

- ➔ There is no disc inside ("Insert disc." appears on the TV screen).
Insert a disc.
- ➔ Insert the disc correctly with the playback side facing down on the disc tray.
- ➔ Clean the disc.
- ➔ The player cannot play CD-ROMs, etc. (page 5)
Insert a DVD, a VIDEO CD, or CD.
- ➔ Check the region code of the DVD. (page 4)
- ➔ Moisture has condensed inside the player. Remove the disc and leave the player turned on for about half an hour. (page 6)

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

- ➔ Program Play, Shuffle Play, Repeat Play or A-B Repeat Play has been selected. Press CLEAR. (pages 41 through 45)
- ➔ Resume Play has been selected. Press ■ on the front panel or on the remote before you start playing. (page 20)
- ➔ 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 DVD automatically.

- ➔ The DVD features the auto playback function.

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 50)

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

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

The subtitle language cannot be changed when you play a DVD.

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

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

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

The angles cannot be changed when you play a DVD.

- ➔ Multi-angles are not recorded on the DVD.
- ➔ Change the angles when "ANGLE" appears on the front panel display. (page 34)
- ➔ 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 53)

5 numbers or letters are displayed on the screen and on the front panel display.

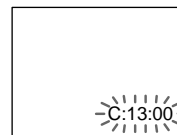
- ➔ The self-diagnosis function was activated. See the table on page 66.

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

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

Self-diagnosis function

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



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)
C31	<ul style="list-style-type: none">• The disc is not inserted correctly. ➔ Open the disc tray and insert the disc correctly.
Exx (xx is any number)	<ul style="list-style-type: none">• To prevent a malfunction, the player has performed the self-diagnosis function. ➔ When you contact your Sony dealer or local authorized Sony service facility, give the 5-character service number. (example: E:61:10)

Specifications

CD/DVD player

Laser Semiconductor laser
 Signal format system PAL/(NTSC)

Audio characteristics

Frequency response
 DVD (PCM 96 kHz): 2 Hz to 44 kHz (±1 dB)
 DVD (PCM 48 kHz): 2 Hz to 22 kHz (±0.5 dB)
 CD: 2 Hz to 20 kHz (±0.5 dB)

Signal-to-noise ratio
 More than 110 dB (AUDIO OUT connectors only)

Harmonic distortion
 Less than 0.003 %

Dynamic range
 More than 100 dB (DVD)
 More than 97 dB (CD)

Wow and flutter
 Less than detected value (±0.001 % W PEAK)

Outputs

	Jack type	Output level	Load impedance
AUDIO OUT (R, L)	Phono jacks	2 Vrms (at 50 kilohms)	Over 10 kilohms
DIGITAL OUT (OPTICAL)	Optical output connector	-18 dBm	Wave length: 660 nm
DIGITAL OUT (COAXIAL)	Phono jack	0.5 Vp-p	75 ohms terminated
VIDEO OUT	Phono jack	1.0 Vp-p	75 ohms, sync negative
S VIDEO OUT	4-pin mini DIN	Y: 1.0 Vp-p C: 0.3 Vp-p (PAL) C: 0.286 Vp-p (NTSC)	75 ohms, sync negative 75 ohms terminated
5.1CH OUTPUT	Phono jack	2 Vrms (at 50 kilohms)	Over 10 kilohms
PHONES	Phone jack	12 mW	32 ohms

General

Power requirements
 220 – 240 V AC, 50/60 Hz

Power consumption
 17 W

Dimensions (approx.)
 430 × 69 × 260 mm (17 × 2³/₄ × 10¹/₄ in.) (w/h/d) incl. projecting parts

Mass (approx.)
 2.9 kg (6 lb 6 oz)

Operating temperature
 5 °C to 35 °C

Operating humidity
 25 % to 80 %

Supplied accessories

See page 7.

Design and specifications are subject to change without notice.

Glossary

Bit rate (page 38)

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 35)

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 12, 57)

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 37, 57)

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 12, 58)

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.

MPEG audio (page 12)

International standard coding system used to compress audio digital signals authorized by ISO/IEC. MPEG 1 conforms to up to 2-channel stereo. MPEG 2 used on DVDs conforms to up to 7.1-channel surround.

Multi-angle function (page 34)

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

Multilingual function (pages 15, 34, 50)

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

Parental Control (page 53)

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 22)

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.

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 34, 50.

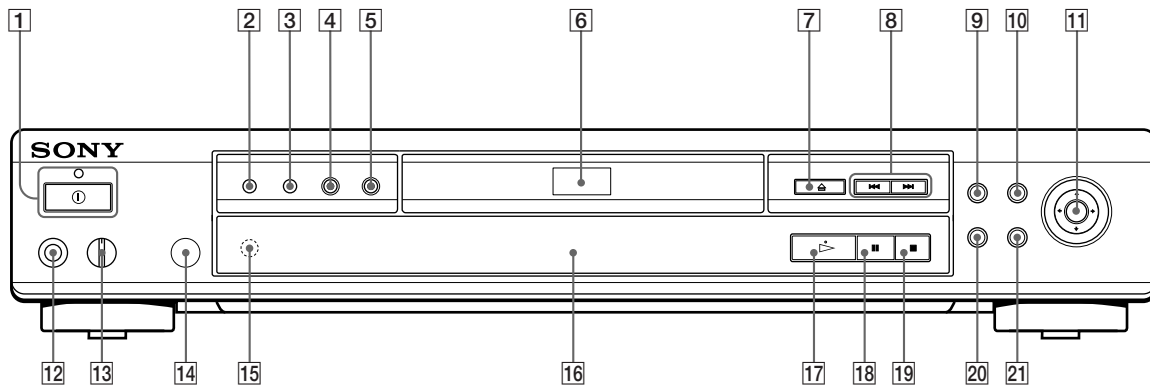
The language spellings conform to the ISO 639: 1988 (E/F) standard.

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

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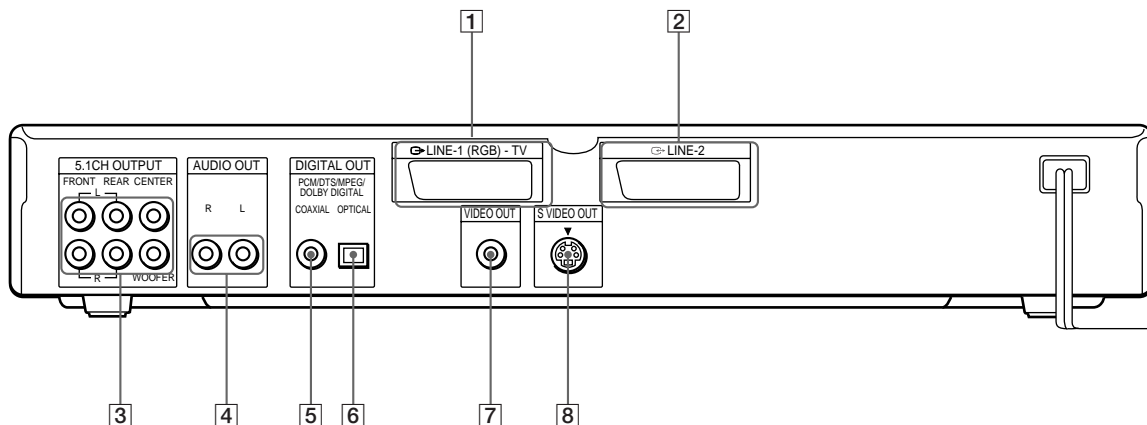
Refer to the pages indicated in parentheses for details.

Front Panel



- 1** **⏻ (power) button and indicator (17)**
Disconnects the power of the player or places the player in standby mode.
- 2** **SHUFFLE button (43)**
Displays the "SHUFFLE" display on the TV screen.
- 3** **REPEAT button (44)**
Displays the "REPEAT" display on the TV screen.
- 4** **DVE (Digital Video Enhancer) button and indicator (46)**
Press to select a Digital Video Enhancer level.
The indicator lights up for every selected item except "OFF."
- 5** **VIRTUAL 3D SURROUND button and indicator (37)**
Press to select the desired "VIRTUAL 3D SURROUND" item.
The indicator lights up for every selected item except "OFF."
- 6** **Disc tray (17)**
Place a disc on the tray.
- 7** **⏪/⏩ OPEN/CLOSE button (17)**
Opens or closes the disc tray.
- 8** **⏮/⏭ IPREV/NEXT (previous/next) buttons (18)**
Press to go to the next chapter or track, or to go back to the previous chapter or track.
- 9** **TITLE button (21)**
Displays the title menu on the TV screen.
- 10** **DVD MENU button (21)**
Displays the DVD menu on the TV screen.
- 11** **⏪/⏩/⏮/⏭/ENTER button**
Selects and executes the items or settings.
- 12** **PHONES connector (17)**
Connect the headphones to this connector.
- 13** **PHONES LEVEL control (17)**
Adjusts the headphone volume.
- 14** **📶 (remote sensor) (7)**
Accepts the remote control signals.
- 15** **MULTICHANNEL indicator**
Lights up when:
 - playing back a Dolby Digital soundtrack on the DVD
 - Playing back an MPEG audio soundtrack on the DVD
 - the disc is not inserted
- 16** **Front Panel Display (23)**
Indicates the playing time, etc.
- 17** **▶ (play) button (17)**
Plays a disc.
- 18** **⏸ (pause) button (18)**
Pauses playing a disc.
- 19** **■ (stop) button (18, 20)**
Stops playing a disc.
- 20** **DISPLAY button (25)**
Displays the Control Menu display on the TV screen to set or adjust the Control Menu items.
- 21** **↶ RETURN button (22, 25)**
Press to return to the previously selected screen, etc.

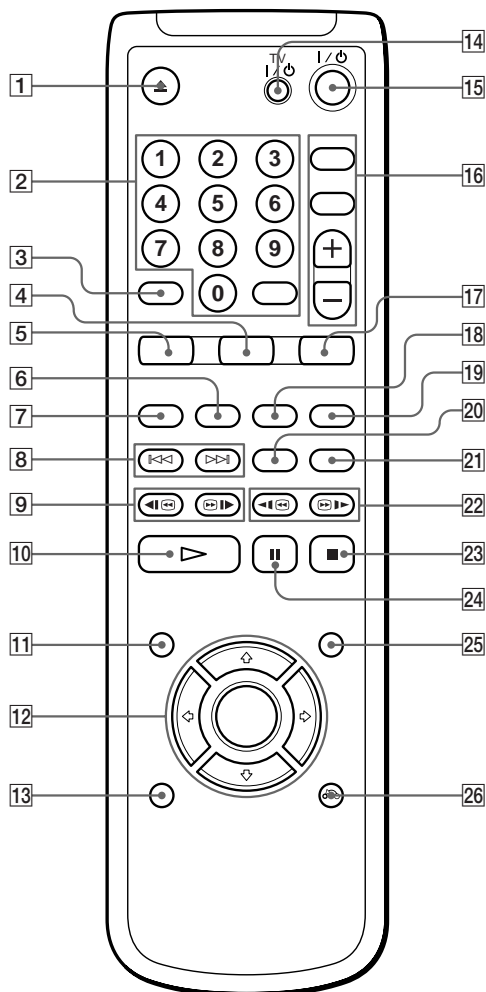
Rear Panel



Additional Information

- 1** **LINE-1 (RGB)-TV connector (8, 52)**
Connect to your TV using a LINE-1 connector to output the signal from the player. You can select the video signals, the S VIDEO signals or the RGB signals as the output signal format.
- 2** **LINE-2 connector (8)**
Connect your video equipment using a LINE-2 connector to input the signal from the equipment.
- 3** **5.1CH OUTPUT connectors (14)**
Connect to a receiver (amplifier) having 5.1 channel input connectors.
- 4** **AUDIO OUT R (right)/L (left) connectors (9, 11)**
Connect to the audio input connector on your TV or receiver (amplifier).
- 5** **DIGITAL OUT COAXIAL connector (11)**
Connect to an audio component using a coaxial digital connecting cord.
- 6** **DIGITAL OUT OPTICAL connector (11)**
Connect to an audio component using an optical digital connecting cord. Take off the cap.
- 7** **VIDEO OUT connector (9)**
Connect to the video input connector on your TV or monitor.
- 8** **S VIDEO OUT connector (9, 11)**
Connect to the S video input connector on your TV or monitor.

Remote



- 1 ▲OPEN/CLOSE button (18)
Opens or closes the disc tray.
- 2 Number/ENTER buttons
Selects and executes the items or settings.
- 3 CLEAR button (41 through 45)
Press to return to continuous play, etc.
- 4 ANGLE button (35)
Changes the angles when playing a DVD.
- 5 AUDIO button (32)
Changes the sound while playing a DVD or VIDEO CD.
- 6 PROGRAM button (42)
Displays the "PROGRAM" display on the TV screen.
- 7 SHUFFLE button (43)
Displays the "SHUFFLE" display on the TV screen.
- 8 ◀◀/▶▶PREV/NEXT (previous/next) buttons (18)
Press to go to the next chapter or track, or to go back to the previous chapter or track.
- 9 ◀◀◀/▶▶▶SEARCH/STEP buttons (19)
While monitoring the picture, keep pressing to locate a point quickly or press repeatedly to play a disc frame by frame.
- 10 ▷PLAY button (17)
Plays a disc.
- 11 TITLE button (21)
Displays the title menu on the TV screen.
- 12 ◀/↑/↓/▶/ENTER buttons
Selects and executes the items or settings.
- 13 DISPLAY button (25)
Displays the Control Menu display on the TV screen to set or adjust the Control Menu items.
- 14 TV I/⏻ (television on/standby) button (61)
Turns on and off the power of the TV.
- 15 I/⏻ (on/standby) button (17)
Press to turn on the player or place it in standby mode after power is connected by pressing ⏻ on the player.
- 16 TV (television)/AV receiver (amplifier) operation buttons (62)
Controls TVs or AV receiver (amplifier).
- 17 SUBTITLE button (34)
Changes the subtitles when playing a DVD.
- 18 REPEAT button (44)
Displays the "REPEAT" display on the TV screen.
- 19 DVE (Digital Video Enhancer) button (46)
Press to select the Digital Video Enhancer level.
- 20 TV/DVD button (10, 62)
Press to return the TV's input from CD/DVD player to the TV when you connect the player to your TV via the SCART (EURO AV) connectors.
- 21 TIME/TEXT button (23)
Displays the playing time of the disc, etc., on the front panel display.
- 22 ◀◀◀/▶▶▶SCAN/SLOW buttons (19)
Locate a point quickly while monitoring the picture or play a disc in slow motion.
- 23 ■STOP button (18, 20)
Stops playing a disc.
- 24 ■■PAUSE button (18)
Pauses playing a disc.
- 25 DVD MENU button (21)
Displays the DVD menu on the TV screen.
- 26 ↶↷RETURN button (22, 25)
Press to return to the previously selected screen, etc.

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