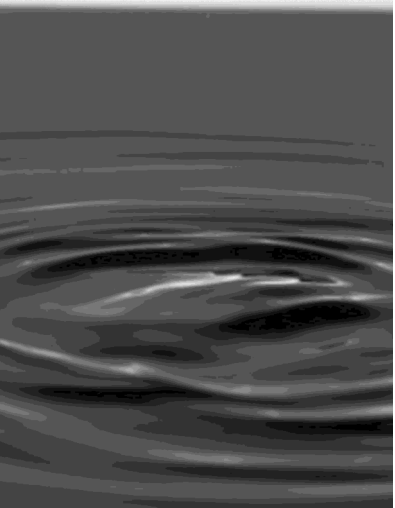
SONY

3-077-370-**41**(2)

CD/DVD Player

Operating Instructions



DVP-F25

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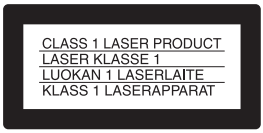
WARNING

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

The following caution labels are located on the laser protective housing inside the enclosure (except for Asian models).

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. 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.
- To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the apparatus.

Installing

- Keep the player and discs away from equipment with strong magnets, such as microwave ovens, or large loudspeakers.
- Do not install the unit in an inclined position. It is designed to be operated in a horizontal or vertical position only.
- Do not place heavy objects on the player.
- The nameplate is located on the bottom exterior.

Welcome!

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

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.

On placement

- Place the player in a location with adequate ventilation to prevent heat build-up in the player.
- Do not place the player in a location near heat sources, or in a place subject to direct sunlight, excessive dust, or mechanical shock.
- Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

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.
- Do not insert a disc with non-standard shape (e.g., card, heart) into the player. The disc may not be ejected and cause a malfunction.
- 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 installing the player on the wall

If the player falls down, a serious injury or damage may result. Observe the following instructions to prevent the player from falling down.

- Install the player on a wall strong enough to hold the player using two proper screws for the wall material and strength.
  Install the player on a vertical and flat wall where reinforcement is applied. If you are not sure about the wall strength or screws, contact a screw shop or installer.
- Install the player straight.
- Do not install the player at high position.
- Do not lean or hang on the player.
- Do not load anything on the player.
- Do not pull the connecting cords when the player is on the wall.
- Be careful not to trip on the connecting cords.
- When you operate the player, do not use excessive force to operate the player, or insert or remove the disc.
- When cleaning, do not put hand on the player or use excessive force.

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.

On cleaning discs

Do not use a commercially available cleaning disc. It may cause a malfunction.

IMPORTANT NOTICE

Caution: This 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.

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

Table of Contents

WARNING 2
Welcome! 2
Precautions 3
About this Manual 7
This Player Can Play the Following Discs 7
Notes about the Discs 8
Index to Parts and Controls 9
Guide to On-Screen Displays (Control Bar) 12

Simple Start Guide 14
Quick Overview 14
Step 1: Unpacking 14
Step 2: Inserting Batteries into the Remote 14
Step 3: TV Hookups 15
Step 4: Playing a Disc 16

Hookups 17
Hooking Up the Player 17
Step 1: Connecting the Video Cords 18
Step 2: Connecting the Audio Cords 21
Step 3: Attaching the Jack Cover and Stand 26
Step 4: Connecting the Power Cord 28
Step 5: Quick Setup 28

Playing Discs 31
Playing Discs 31
Searching for a Particular Point on a Disc (Scan, Slow-motion Play) 33
Resuming Playback from the Point Where You Stopped the Disc (Multi-disc Resume) 34
Using the DVD's Menu 35
Playing VIDEO CDs with PBC Functions (PBC Playback) 36
Playing an MP3 Audio Track 37
Various Play Mode Functions (Programme Play, Shuffle Play, Repeat Play, A-B Repeat Play) 39

Searching for a Scene 45
Searching for a Title/Chapter/Track/Index/Scene (Search mode) 45

Viewing Information About the Disc 46
Checking the Playing Time and Remaining Time 46

Sound Adjustments 48
Changing the Sound 48
TV Virtual Surround Settings (TVS) 49

→ *continued*

Enjoying Movies 51
Changing the Angles 51
Displaying the Subtitles 51
Adjusting the Picture Quality (BNR) 52
Adjusting the Playback Picture (CUSTOM PICTURE MODE) 53
Enhancing the Playback Picture (DIGITAL VIDEO ENHANCER) 54

Using Various Additional Functions 56
Locking Discs (CUSTOM PARENTAL CONTROL, PARENTAL CONTROL) 56
Controlling Your TV with the Supplied Remote 60

Settings and Adjustments 62
Using the Setup Display. 62
Setting the Display or Sound Track Language (LANGUAGE SETUP) 63
Settings for the Display (SCREEN SETUP). 64
Custom Settings (CUSTOM SETUP). 65
Settings for the Sound (AUDIO SETUP) 66

Additional Information 69
Troubleshooting 69
Self-diagnosis Function (When letters/numbers appear in the display). 71
Glossary. 72
Specifications 73
Language Code List 74
Index 75

About this Manual

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

Icon	Meaning
DVD	Functions available for DVD VIDEOs or DVD-Rs/DVD-RWs in video mode
VCD	Functions available for VIDEO CDs or CD-Rs/CD-RWs in video CD format
DATA CD	Functions available for DATA CDs (CD-ROMs/CD-Rs/CD-RWs containing MP3* audio tracks)
CD	Functions available for music CDs or CD-Rs/CD-RWs in music CD format

* MP3 (MPEG1 Audio Layer 3) is a standard format defined by ISO (International Standard Organization)/MPEG which compresses audio data.

This Player Can Play the Following Discs

Format of discs	
DVD VIDEO	DVD VIDEO
VIDEO CD	COMPACT disc DIGITAL VIDEO
Music CD	COMPACT disc DIGITAL AUDIO

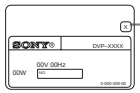
The “DVD VIDEO” logo is a trademark.

Region code

Your player has a region code printed on the bottom of the unit and only will play DVD VIDEO discs (playback only) labeled with identical region codes. This system is used to protect copyrights.

DVDs labeled ALL will also play on this player.

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.



Example of discs that the player cannot play

The player cannot play the following discs:

- All CD-ROMs (including PHOTO CDs)/ CD-Rs/CD-RWs other than those recorded in the following formats:
  - –music CD format
  - –video CD format
  - –MP3 format that conforms to ISO9660* Level 1/Level 2, or its extended format, Joliet
- Data part of CD-Extras
- DVD-RWs in VR mode
- DVD-ROMs
- DVD Audio discs
- HD layer on Super Audio CDs

* A logical format of files and folders on CD-ROMs defined by ISO (International Standard Organization).

Also, the player cannot play the following discs:

- A DVD with a different region code.
- A disc that has a non-standard shape (e.g., card, heart).
- A disc with paper or stickers on it.
- A disc that has the adhesive of cellophane tape or a sticker still left on it.

Note

Some CD-Rs, CD-RWs, DVD-Rs, or DVD-RWs (in video mode) cannot be played on this player due to the recording quality or physical condition of the disc, or the characteristics of the recording device. Furthermore, the disc will not play if it has not been correctly finalized. For more information, see the operating instructions for the recording device.

→ continued

Note that discs created in the Packet Write format cannot be played.

Note on playback operations of DVDs and VIDEO CDs

Some playback operations of DVDs and VIDEO CDs may be intentionally set 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.

Copyrights

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents, 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.

Notes about the Discs

- To keep the disc clean, handle the disc by its edge. Do not touch the surface.

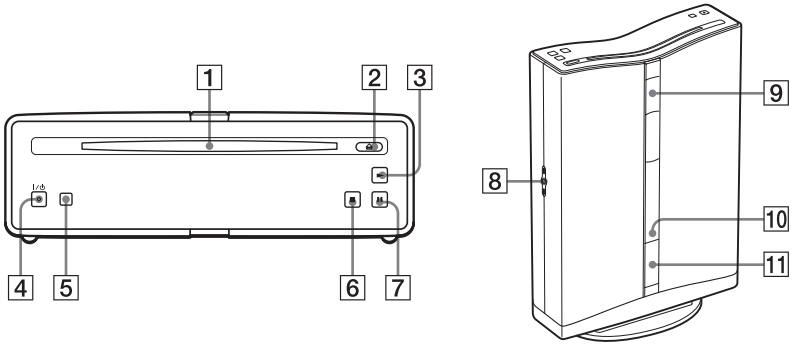
- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight as the temperature may rise considerably inside the car.
- After pressing ⏏ on the player to eject the disc, do not leave the disc as it is. Remove it completely from the player.
- After playing, store the disc in its case.
- If glue is present on the outer edge of the disc, wipe the edge of the disc with the side of a pen or pencil so that the glue is spread evenly along the edge before inserting the disc into the player. Be sure not to touch the playback side of the disc when wiping the edge.
- If burrs remain on the outer edge of the disc, remove them by rubbing with the side of a pen or pencil. If burrs are not removed, discs may not load properly into the player, or fragments of plastic adhering to the playback side of the disc may cause skipping in the sound.
- Clean the disc with a cleaning cloth. Wipe the disc from the centre out.

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

Index to Parts and Controls

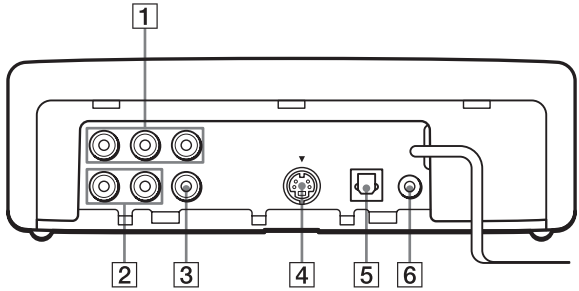
For more information, refer to the pages indicated in parentheses.

Front panel



1 Disc slot (31)
2 ⏏ (eject) button (32)
3 ► (playback) button (31)
4 I/⏻ (on/standby) button/indicator (31)
The indicator lights up in green when the power is on and lights up in red when the player is in standby mode.
5 (remote sensor) (14)
6 ■ (stop) button (32)
7 ❚❚ (pause) button (32)
8 Screw hole for the stand (27)
9 Disc window (31)
10 (remote sensor) (14)
11 Illumination (65)
Lights up in blue when the power is on.

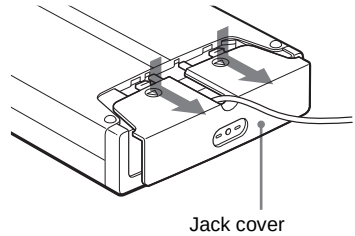
Rear panel



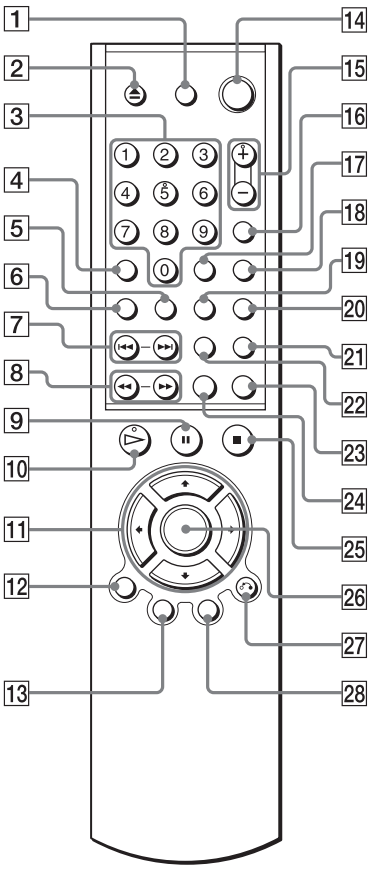
1 COMPONENT VIDEO OUT (Y, C_B, C_R) jacks (18)
2 AUDIO OUT L/R jacks (22) (23) (24)
3 VIDEO OUT jack (18)
4 S VIDEO OUT jack (18)
5 DIGITAL OUT (OPTICAL) jack (23) (24) (25)
6 CONTROL S IN jack (18)

To remove the jack cover

The player is sold with the jack cover attached. Press both of the parts marked with ▽ to remove the jack cover. You will find the jacks and the power cord illustrated above.



Remote



1 TV I/⏻ (on/standby) button (60)
2 ⏏ EJECT button (32)
3 Number buttons (35)
The number 5 button has a tactile dot.*
4 CLEAR button (39)
5 SUBTITLE button (51)
6 AUDIO button (48)
7 ⏮/⏭ PREV/NEXT (previous/next) buttons (32)
8 ◄I ◄◄/►► I► SCAN/SLOW buttons (33)
9 II PAUSE button (32)
10 ▷ PLAY button (31)
The ▷ button has a tactile dot.*
11 ←/↑/↓/→ buttons (35)
12 DISPLAY button (12)
13 TOP MENU button (35)
14 I/⏻ (on/standby) button (31)
15 VOL (volume) +/– buttons (60)
The + button has a tactile dot.*
16 TV/VIDEO button (60)
17 ENTER button (33)
18 PICTURE MODE button (53)
19 ANGLE button (51)
20 SUR (surround) button (49)
21 TIME/TEXT button (46)
22 REPEAT button (42)
23 REPLAY button (32)
24 SEARCH MODE button (45)
25 ■ STOP button (32)
26 ENTER button (33)
27 ↩ RETURN button (36)
28 MENU button (35) (37)

* Use the tactile dot as a reference when operating the player.

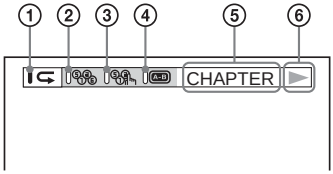
Guide to On-Screen Displays (Control Bar)

The following explains the Control Bar. The Control Bar is used for making adjustments to the settings or displaying information during playback.
The displayed contents differ according to the type of disc being played. The numbers in parentheses indicate reference pages.

Displaying the Control Bar during playback

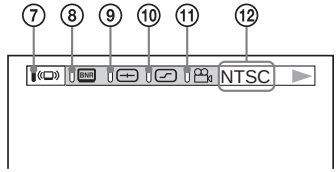
The following displays appear when the DISPLAY button is pressed repeatedly during playback. You can select the setting that suits the current playback item and view the related information.

◆Display 1
The following play modes ①~④ can be set.
The indicator lights up in blue when activated.
Example: When Repeat Play is selected. (The display will differ when A-B Repeat Play is set.)



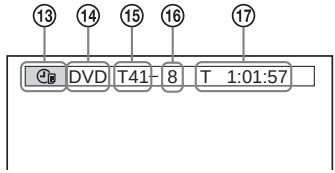
① Repeat Play (42)
② Shuffle Play (41)
③ Programme Play (39)
④ A-B Repeat Play (43)
⑤ Unit being repeated in this example.
⑥ Playback status (►Playback, ❚❚Pause, ■Stop, etc.)

◆Display 2
The following play modes ⑦~⑫ can be set.
The indicator lights up in blue when activated.
Example: When "TVS" is set.



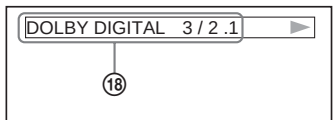
⑦ TVS (49)
⑧ "BNR" (52)
⑨ "CUSTOM PICTURE MODE" (53)
⑩ "DIGITAL VIDEO ENHANCER" (54)
⑪ "ANGLE" (51)
The indicator lights up in blue when various angles are recorded on the scene.
⑫ Appears when the player outputs the signal in NTSC format.

◆Display 3
The following playback information is displayed.
Example: When playing a DVD.



⑬ TIME/TEXT icon (46)
⑭ Disc type
⑮ Title number of the DVD (46)
⑯ Chapter number of the DVD (46)
⑰ Playing time or remaining time (46)

◆Display 4 (DVD playback only)



⑱ Format of the current audio signal (49)

◆**No display**

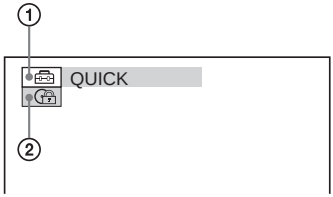
◆**Return to Display 1**

Displaying the Control Bar in stop mode

The following displays appear when the DISPLAY button is repeatedly pressed during stop mode. You can make basic adjustments and customize the player to suit your viewing preferences.

◆**Display 1**

The following settings can be made.



① SETUP (62)

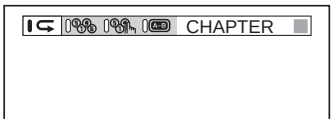
- Select QUICK to make the minimum number of basic adjustments for using the player.
- Select CUSTOM to make a full range of adjustments.
- Select RESET to return the SETUP adjustments to the default settings.

② PARENTAL CONTROL (56)

- Set this to limit the playback of selected discs on this player.

◆**Display 2**

Shows the same information as Display 1 during playback.

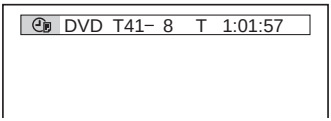


◆**Display 3**

Shows the same information as Display 2 during playback.

◆**Display 4**

Shows the same information as Display 3 during playback.



◆**No display**

◆**Return to Display 1**

Quick Overview

A quick overview presented in this guide will give you enough information to start using the player for your enjoyment. To use the surround sound features of this player, refer to “Hookups” on page 17.

Notes

- You cannot connect this player to a TV that does not have a video input or SCART (EURO AV) jack.
- Be sure to disconnect the power of each component before connecting.

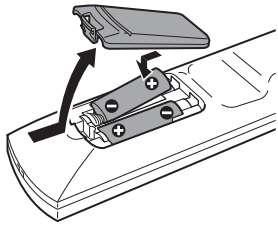
Step 1: Unpacking

Check that you have the following items:

- Audio/video cord (pinplug × 3 ⟷ pinplug × 3) (1)
- Remote commander (remote) (1)
- R6 (size AA) batteries (2)
- Stand (1)
- Screw (1)
- An EURO AV adaptor is included with some models.

Step 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.

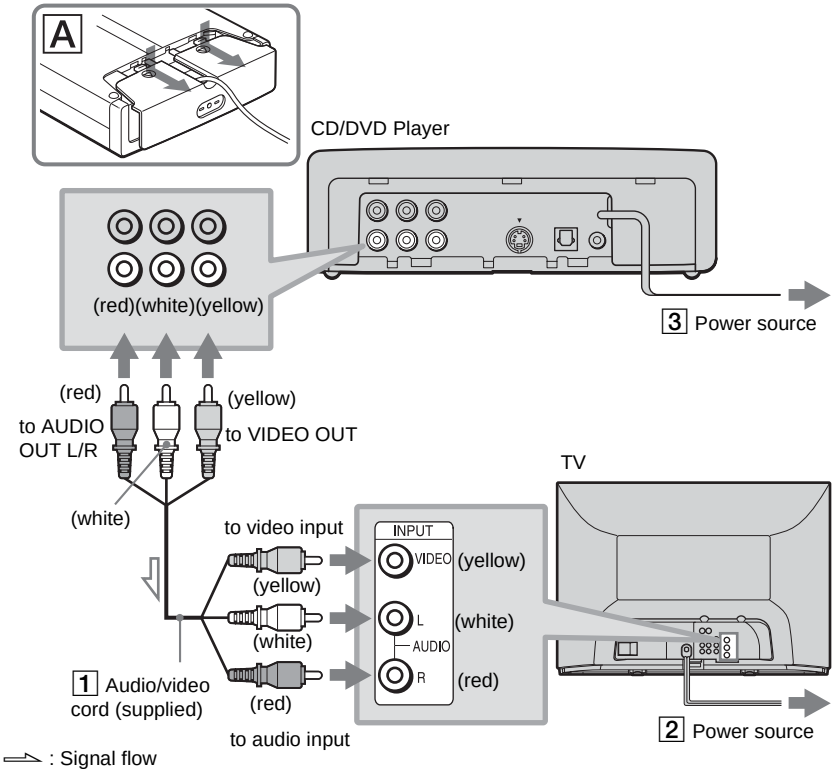


Notes

- 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 light from the sun or a lighting apparatus. 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.

Step 3: TV Hookups

Remove the jack cover from the player (see fig. A and page 10).
Connect the supplied audio/video cord and the power cord in the order (1~3) shown below.
Be sure to connect the power cord last.
After connecting the cords, attach the jack cover (page 26).



When connecting to a standard 4:3 screen TV

Depending on the TV type, the image of some discs may not fit your TV screen.
If you want to change the aspect ratio, please refer to page 64.

If your TV has a SCART (EURO AV) jack

Attach the supplied EURO AV adaptor to the TV, and connect to the player using the supplied audio/video cord.

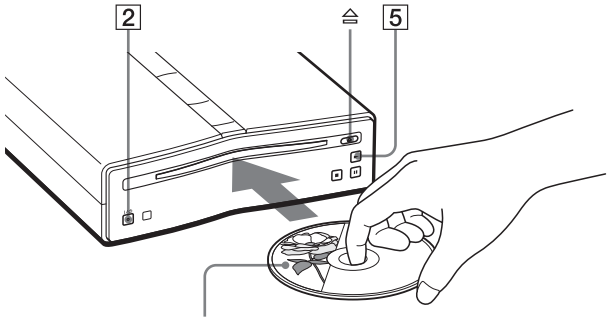
When connecting to a monaural TV

Use a stereo-mono conversion cord (not supplied). Connect the VIDEO OUT jack on the player to the TV's video input jack, and connect the AUDIO OUT L/R jacks to the TV's audio input jack.

For Asian models only
To change the colour system

The colour system of the player is set to NTSC or PAL. If the on-screen menu of the player does not appear on the TV, change the colour system of the player to the same colour system (PAL or NTSC) of your TV. To change the colour system, hold I/⏻ down for a few seconds while pressing II on the player.

Step 4: Playing a Disc



1 Turn on the TV.

2 Press I/⏻ on the player.

3 Switch the input selector on your TV so that the signal from the player appears on the TV screen.

4 Insert the disc in the player so that the labeled (or non-playback) side appears through the disc window.

5 Press ►.

The player begins playing the disc.

After Step 5

Depending on the disc, a menu may be displayed on the TV screen. If so, select the item you want from the menu and play the DVD (page 35) or VIDEO CD disc (page 36).

To stop playing

Press ■.

To remove the disc

Press ⏏.
Remove the disc from the player.

To turn off the player

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

Hooking Up the Player

Follow Steps 1 to 5 to hook up and adjust the settings of the player.
Before you start, disconnect the power cords, check that you have all of the supplied accessories, and insert the batteries into the remote (page 14). Remove the jack cover (page 10).

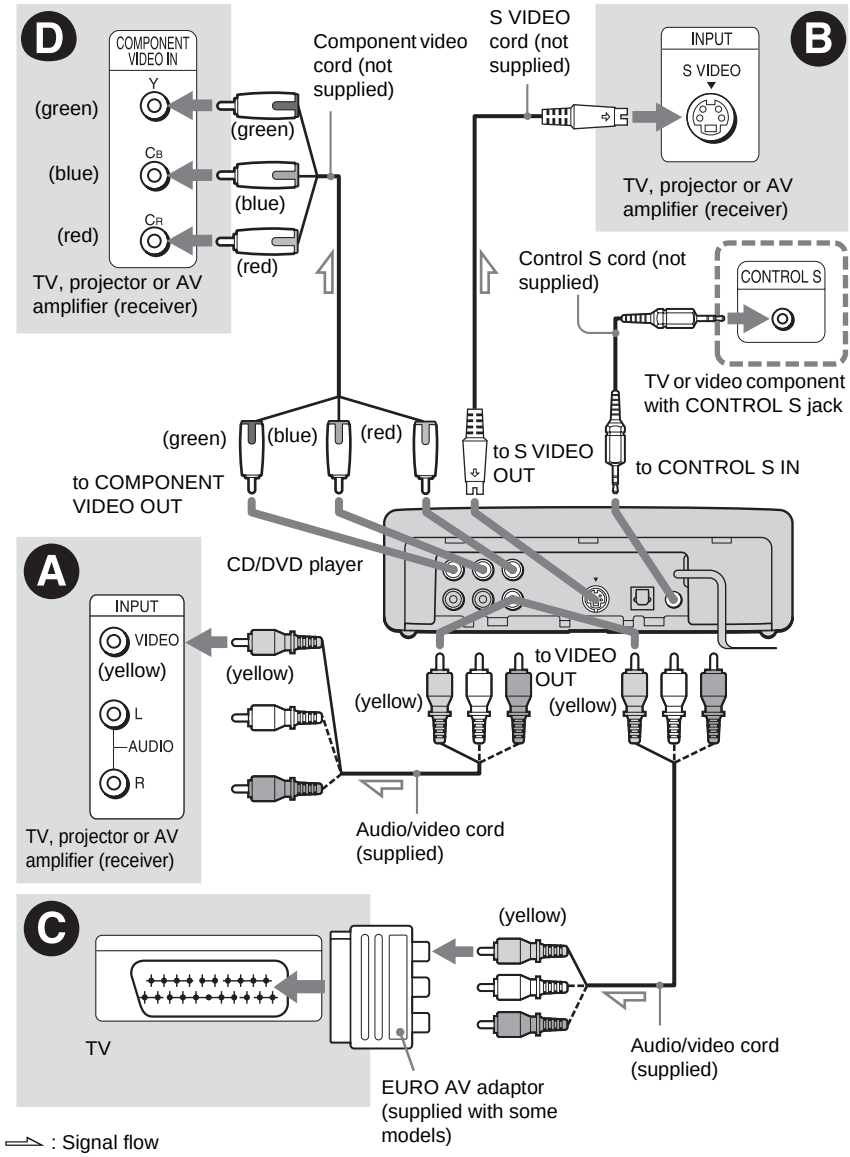
Notes

- Plug cords securely to prevent unwanted noise.
- Refer to the instructions supplied with the components to be connected.

→ *continued*

Step 1: Connecting the Video Cords

Connect this player to your TV monitor, projector, or AV amplifier (receiver) using a video cord. Select one of the patterns ❶ through ❸, according to the input jack on your TV monitor, projector, or AV amplifier (receiver).



Ⓐ If you are connecting to a video input jack

Connect the yellow plug of the audio/video cord (supplied) to the yellow (video) jacks. You will enjoy standard quality images.

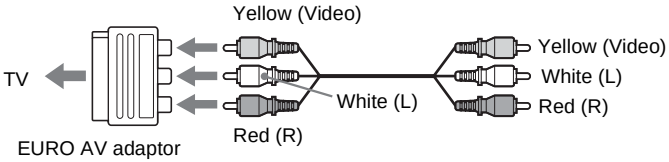
Use the red and white plugs to connect to the audio input jacks (page 22). (Do this if you are connecting to a TV only.)

Ⓑ If you are connecting to an S VIDEO input jack

Connect an S VIDEO cord (not supplied). You will enjoy high quality images.

Ⓒ If you are connecting to a SCART (EURO AV) input jack

Connect the supplied EURO AV adaptor to the SCART (EURO AV) input jack of the TV and connect the player and the EURO AV adaptor using the audio/video cord (supplied). Connect the yellow plugs of the audio/video cord to the yellow (video) jacks. Use the red and white plugs to connect the audio input jack (page 22).



Ⓓ If you are connecting to a monitor, projector, or AV amplifier (receiver) having component video input jacks (Y, C_B, C_R)

Connect the component via the COMPONENT VIDEO OUT jacks using a component video cord (not supplied) or three video cords (not supplied) of the same kind and length. You will enjoy accurate colour reproduction and high quality images.

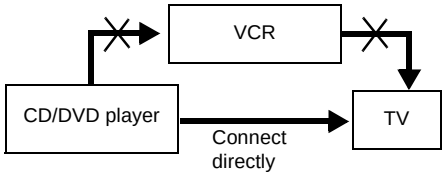
If your TV or video component has a CONTROL S connector

You can control the player by pointing the remote at the remote sensor on the TV or video component. This feature is convenient when you placed the player and the TV or video component away from each other. Connect the TV or video component via the CONTROL S IN connectors using the control S cord (not supplied). Refer to the instructions supplied with the component to be connected.

→ *continued*

Notes

• Connect the player directly to the TV. If you pass the player signals via the VCR, etc., you may not receive a clear image on the TV screen.



When you play a disc recorded in the NTSC colour system, the player outputs the video signal or the Setup Display etc. in the NTSC colour system and the picture may not appear on the PAL colour system televisions. In this case, remove the disc.

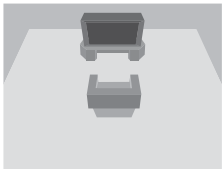
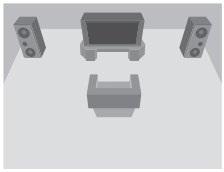
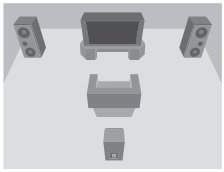
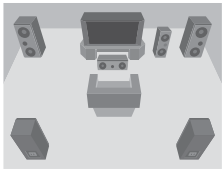
• **For Asian models only**
You can switch the player's colour system to match the colour system of the connected TV (page 15).

Step 2: Connecting the Audio Cords

Refer to the chart below to select the connection that best suits your system. Be sure to also read the instructions for the components you wish to connect.

Select a connection

Select one of the following connections, A through D.

Components to be connected	Connection	Your setup
TV • Surround effects: TVS DYNAMIC (page 50), TVS WIDE (page 50)	A (page 22)	Example 
Stereo amplifier (receiver) and two speakers • Surround effects: TVS STANDARD (page 50) or **MD deck/DAT deck** • Surround effects: none	B (page 23)	Example 
AV amplifier (receiver) having a Dolby* Surround (Pro Logic) decoder and 3 to 6 speakers • Surround effects: Dolby Surround (Pro Logic) (page 67)	C (page 24)	Example 
AV amplifier (receiver) with a digital input jack having a Dolby Digital, MPEG audio, or DTS decoder and 6 speakers** • Surround effects: Dolby Digital (5.1ch) (page 67), DTS (5.1ch) (page 68), MPEG audio (5.1ch) (page 68)	D (page 25)	Example 

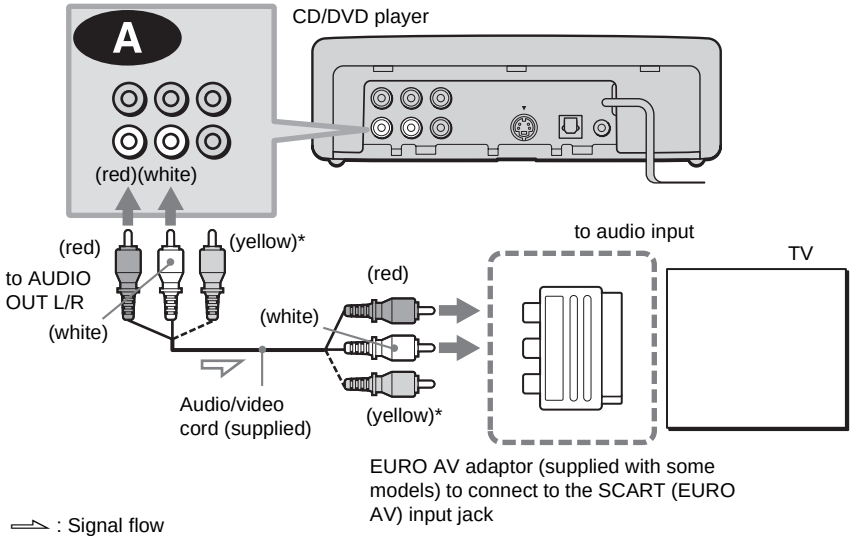
* Manufactured under license from Dolby Laboratories. “Dolby,” “Pro Logic,” and the double-D symbol are trademarks of Dolby Laboratories.

** “DTS” and “DTS Digital Out” are trademarks of Digital Theater Systems, Inc.

→ continued

A Connecting to your TV

This connection will use your TV speakers for sound.



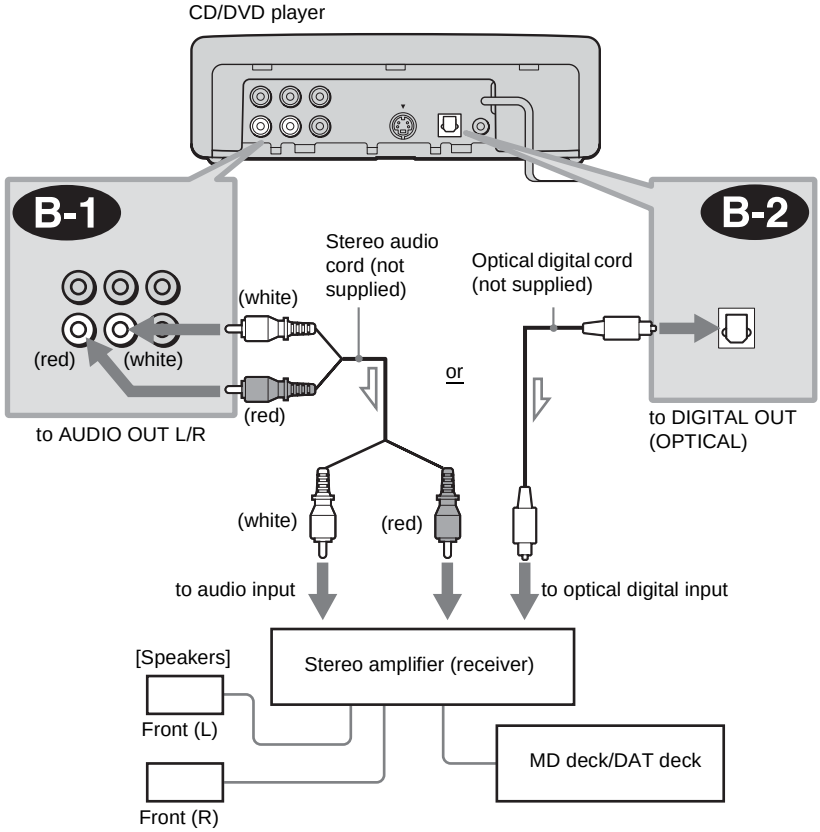
* The yellow plug is used for video signals (page 18).

Hint

When connecting to a monaural TV, use a stereo-mono conversion cord (not supplied). Connect the AUDIO OUT L/R jacks to the TV's audio input jack.

B Connecting to a stereo amplifier (receiver) and 2 speakers/Connecting to an MD deck or DAT deck

If the stereo amplifier (receiver) has audio input jacks L and R only, use B-1. If the amplifier (receiver) has a digital input jack, or when connecting to an MD deck or DAT deck, use B-2. In this case, you can also connect the player directly to the MD deck or DAT deck without using your stereo amplifier (receiver).



: Signal flow

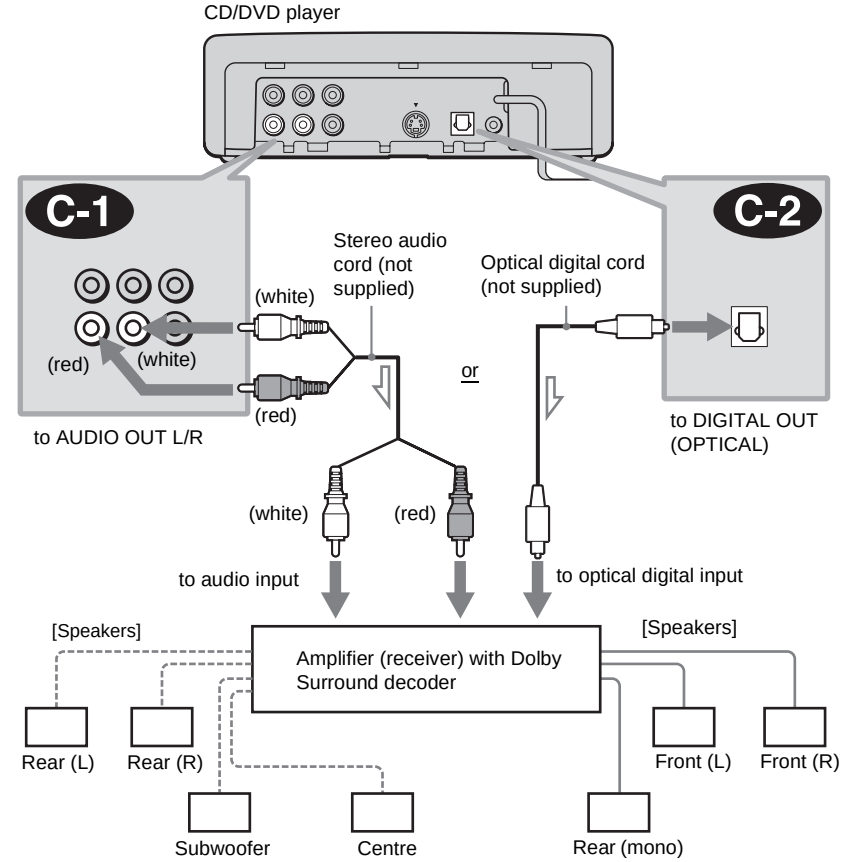
Hint

In connection B-1, you can use the supplied audio/video cord instead of using a separate audio cord.

→ continued

C Connecting to an AV amplifier (receiver) having a Dolby Surround (Pro Logic) decoder and 3 to 6 speakers

You can enjoy the Dolby Surround effects only when playing Dolby Surround audio or multi-channel audio (Dolby Digital) discs.
If your amplifier (receiver) has L and R audio input jacks only, use C-1. If your amplifier (receiver) has a digital input jack, use C-2.

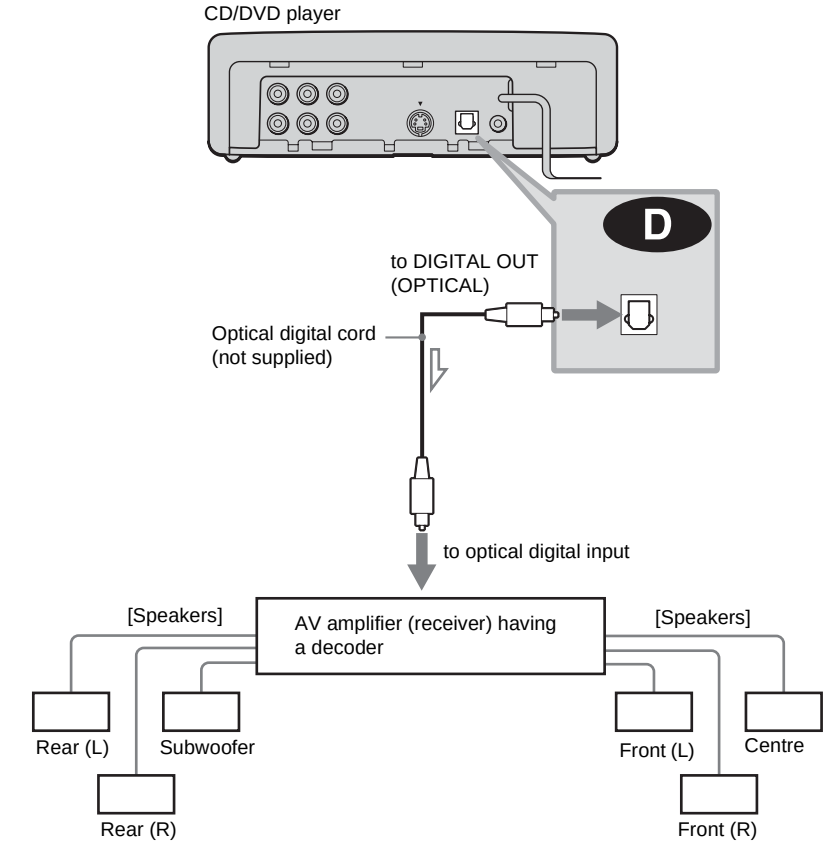


Note

When connecting 6 speakers, replace the monaural rear speaker with a centre speaker, 2 rear speakers and a subwoofer.

D Connecting to an AV amplifier (receiver) with a digital input jack having a Dolby Digital, MPEG audio, or DTS decoder, and 6 speakers

This connection will allow you to use the Dolby Digital, MPEG audio, or DTS decoder function of your AV amplifier (receiver). You are not able to enjoy the surround sound effects of this player.



: Signal flow

Note

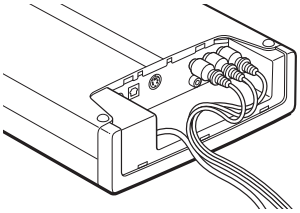
After you have completed the connection, be sure to set “DOLBY DIGITAL” to “DOLBY DIGITAL” and “DTS” to “ON” in Quick Setup (page 28). If your AV amplifier (receiver) has an MPEG audio decoder function, set “MPEG” to “MPEG” (page 68). Otherwise, no sound or a loud noise will come from the speakers.

Step 3: Attaching the Jack Cover and Stand

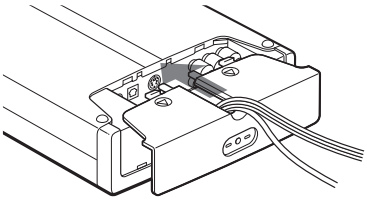
You can use the player laid flat, or in an upright position by attaching the supplied stand to the rear or side of the player. You can also install the player on the wall.

Attaching the jack cover (Using the player laid flat)

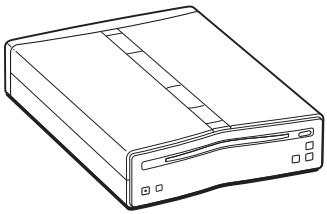
1 Gather all the connecting cords together and let them pass through the centre of the opening at the back of the player.



2 Attach the jack cover carefully so as not to pinch the cords.



3 Place the player flat on a level surface.



Notes

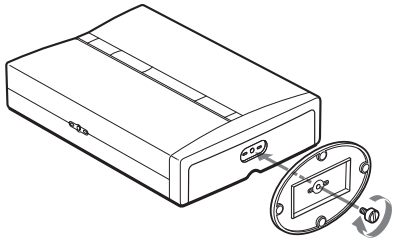
- Make sure that the connecting cords are not trapped by the jack cover.
- Do not apply downword force to the player with the disc window facing down. Doing so may cause scratches or damage to the player.
- If you use commercially available cords, it is recommended that you use cords similar in size to the cords provided with the player. If the cords are too thick or stiff, or the plug is too large, you may not be able to attach the jack cover securely. If you cannot attach the jack cover, you do not have to attach the jack cover.

Using the player in the upright position

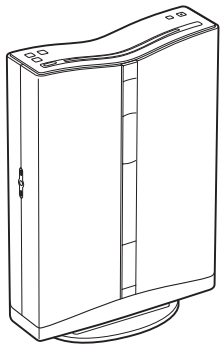
Make sure you attach the supplied stand.

To stand the player on its rear

1 Attach the stand to the screw hole of the jack cover using the supplied screw.

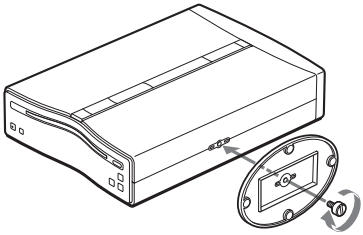


2 Place the player upright on the stand.

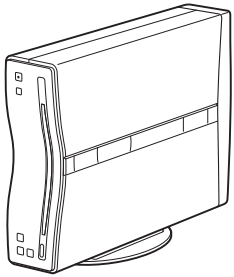


To stand the player on its side

1 Attach the stand to the screw hole on the side of the player using the supplied screw.



2 Place the player on the stand.

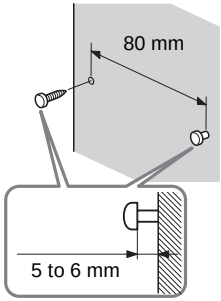


Notes

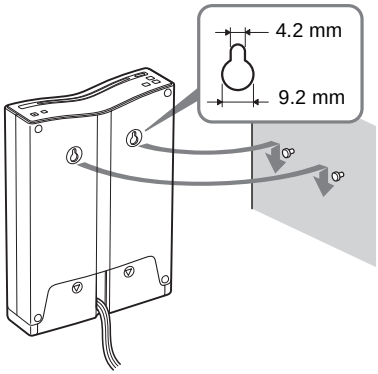
- Use the supplied stand only when you use the player in an upright position. Do not attach the stand when you use the player laid flat.
- To move the player, hold the player itself. If you hold the stand, it may break.
- Do not use the player in an upright position without attaching the stand. If you do not attach it, the player will be unstable and may fall over.

Installing the player on the wall

Attach the jack cover (page 26).
Fasten screws (not supplied) to the wall at the same height 80 mm apart. The screws should protrude by 5 to 6 mm.



Remove the seals covering the hanging holes. Hang the player on the screws. Push the player tightly against the wall.



Notes

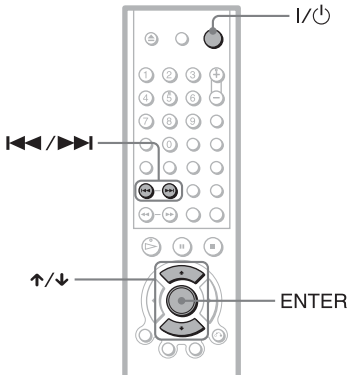
- Use the screws that matches the wall material and strength.
- Install the player on a vertical and flat wall where reinforcement is applied. Do not install the player if the wall is not vertical, flat or strong enough.
- Contact a screw shop or installer regarding the wall material or screws to be used.
- After the player has been used for long time on the wall, the wall behind or above the player may discolour or peel off by radiation of heat from the player depending on the wall material.
- Sony will refrain from any responsibility on the accident or damage caused by improper installation, lack of durability of the wall or screws, improper operation, natural calamity, etc.

Step 4: Connecting the Power Cord

Plug the player and TV mains leads (power cord) into a mains.

Step 5: Quick Setup

Follow the steps below to make the minimum number of basic adjustments for using the player. To skip an adjustment, press ▶▶I. To return to the previous adjustment, press I◀◀.
The on-screen display differs depending on the player model.



1 **Turn on the TV.**

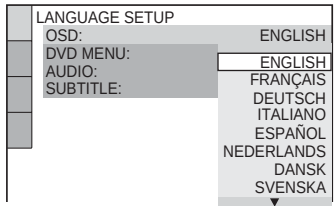
2 **Press I/⏻.**

3 **Switch the input selector on your TV so that the signal from the player appears on the TV screen.**

"Press [ENTER] to run QUICK SETUP." appears at the bottom of the screen. If this message does not appear, select "QUICK" under "SETUP" in the Control Bar to run Quick Setup (page 63).

4 **Press ENTER without inserting a disc.**

The Setup Display for selecting the language used in the on-screen display appears.
The available languages differ depending on the player model.

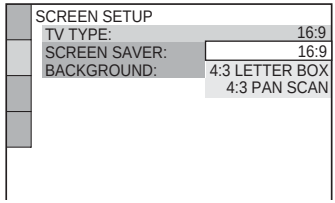


5 **Press ↑/↓ to select a language.**

The player uses the language selected here to display the menu and subtitles as well.

6 **Press ENTER.**

The Setup Display for selecting the aspect ratio of the TV to be connected appears.



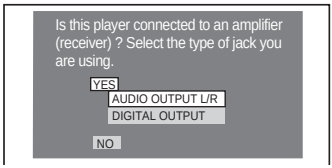
7 Press ↑/↓ to select the setting that matches your TV type.

◆ If you have a wide-screen TV or a 4:3 standard TV with a wide-screen mode
• 16:9 (page 64)

◆ If you have a 4:3 standard TV
• 4:3 LETTER BOX or 4:3 PAN SCAN (page 64)

8 Press ENTER.

The Setup Display for selecting the type of jack used to connect your amplifier (receiver) appears.



9 Press ↑/↓ to select the type of jack (if any) you are using to connect to an amplifier (receiver), then press ENTER.

Choose the item that matches the audio connection you selected on pages 22 to 25 (A through D).

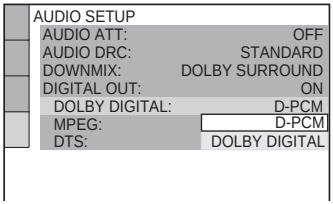
A
• If you connect just a TV and nothing else, select "NO." Quick Setup is finished and connections are complete.

B-1 C-1
• Select "AUDIO OUTPUT L/R." Quick Setup is finished and connections are complete.

B-2 C-2 D
• Select "DIGITAL OUTPUT." The Setup Display for "DOLBY DIGITAL" appears.

10 Press ↑/↓ to select the type of Dolby Digital signal you wish to send to your amplifier (receiver).

Choose the signal that matches the audio connection you selected on pages 23 to 25 (B through D).

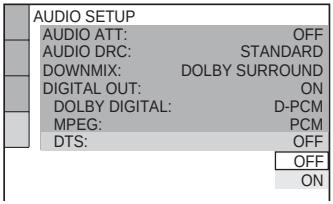


B-2 C-2
• D-PCM (page 67)

D
• DOLBY DIGITAL (only if the amplifier (receiver) has a Dolby Digital decoder) (page 67)

11 Press ENTER.

"DTS" is selected.



12 Press ↑/↓ to select whether or not you wish to send a DTS signal to your amplifier (receiver).

Choose the item that matches the audio connection you selected on pages 23 to 25 (B through D).

B-2 C-2
• OFF (page 68)

D
• ON (only if the amplifier (receiver) has a DTS decoder) (page 68)

13 Press ENTER.

Quick Setup is finished. All connections and setup operations are complete.
If your AV amplifier (receiver) has an MPEG audio decoder, adjust the "MPEG" setting (page 68).

→ continued

Enjoying the surround sound effects

To enjoy the surround sound effects of this player or your amplifier (receiver), set the following items as described below for the audio connection you selected on pages 23 to 25 (B through D). Each of these is the default setting and does not need to be adjusted when you first connect the player. Refer to page 62 for using the Setup Display.

Audio Connection (pages 22 to 25)

A

- No additional settings are needed.

B-1 C-1

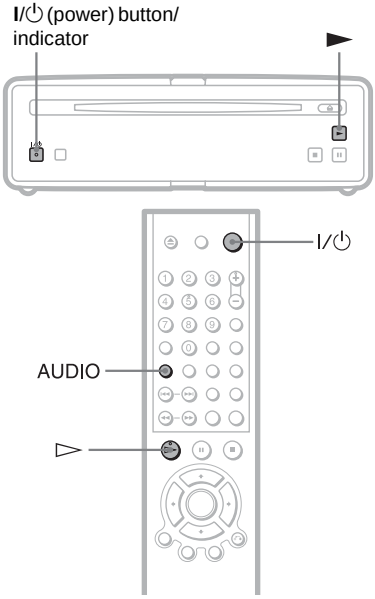
- Set “DOWNMIX” to “DOLBY SURROUND” (page 67).
- If the sound distorts even when the volume is turned down, set “AUDIO ATT” to “ON” (page 66).

B-2 C-2 D

- Set “DOWNMIX” to “DOLBY SURROUND” (page 67).
- Set “DIGITAL OUT” to “ON” (page 67).

Playing Discs DVD VCD CD DATA CD

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



1 Turn on your TV.

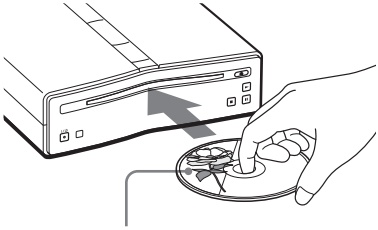
2 Press I/⏻.

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

3 Switch the input selector on your TV so that the signal from the player appears on the TV screen.

◆ When using an amplifier (receiver)
Turn on the amplifier (receiver) and select the appropriate channel so that you can hear sound from the player.

4 Insert a disc in the player.



The labeled (or non-playback) side appears through the disc window.

5 Press ▷.

The player starts playback (continuous play). Adjust the volume on the TV or the amplifier (receiver).
Depending on the disc, a menu may appear on the TV screen. For DVDs, see page 35. For VIDEO CDs, see page 36.

To turn off the player

Press I/⏻. The player enters standby mode.

Hint

You can have the player turn off automatically whenever you leave it in stop mode for more than 30 minutes. To turn on this function, set "AUTO POWER OFF" in "CUSTOM SETUP" to "ON" (page 65).

Notes on playing DTS sound tracks on a CD

- When playing DTS-encoded CDs, excessive noise will be heard from the analog stereo jacks. To avoid possible damage to the audio system, the consumer should take proper precautions when the analog stereo jacks of the player are connected to an amplification system. To enjoy DTS Digital Surround™ playback, an external 5.1-channel decoder system must be connected to the digital jack of the player.
- Set the sound to "STEREO" using the AUDIO button when you play DTS sound tracks on a CD (page 48).
- 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) jack even if "DTS" in "AUDIO SETUP" is set to "OFF" in the Setup Display (page 68), and may

→ continued

affect your ears or cause your speakers to be damaged.

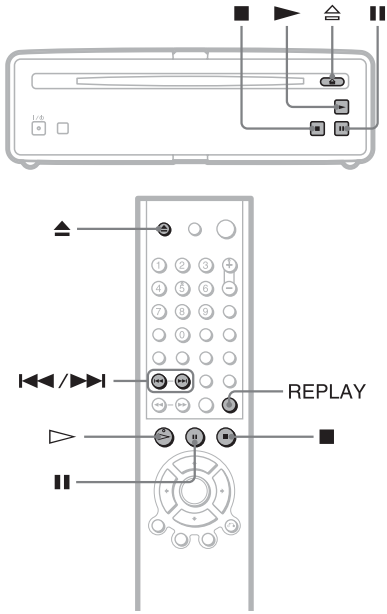
Notes on playing DVDs with a DTS sound track

- DTS audio signals are output only through the DIGITAL OUT (OPTICAL) jack.
- When you play a DVD with DTS sound tracks, set “DTS” to “ON” in “AUDIO SETUP” (page 68).
- If you connect the player to audio equipment without a DTS decoder, do not set “DTS” to “ON” in “AUDIO SETUP” (page 68). A loud noise may come out from the speakers, affecting your ears or causing the speakers to be damaged.

Notes

- When you insert an 8-cm (3-inch) disc, insert the disc slowly at the centre of the disc slot. If you cannot eject the disc, consult your nearest Sony dealer.
- No adapter is required in order to play 8-cm (3-inch) discs on this player. If an adapter is used, damage to the player may result; therefore, never use an adapter when playing 8-cm (3-inch) discs.

Additional operations



To	Operation
Stop	Press ■
Pause	Press ❚❚
Resume play after pause	Press ❚❚ or ► or ▷
Go to the next chapter, track, or scene in continuous play mode	Press ⏭
Go back to the previous chapter, track, or scene in continuous play mode	Press ⏮
Stop play and remove the disc	Press ⏏ or ⏏
Replay the previous scene (DVD only)	Press REPLAY

Hint

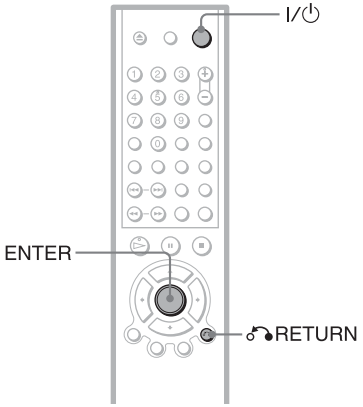
The Replay function is useful when you want to review a scene or dialog that you missed.

Note

You may not be able to use the Replay function with some scenes.

Locking the disc slot (Child Lock)

You can lock the disc slot to prevent children from ejecting a disc.



When the player is in standby mode, press RETURN, ENTER, and then I/⏻ on the remote.

"Locked" appears on the TV screen when you press the ⏏ button on the player or the remote.
The ⏏ button on the player and the remote do not work while the Child Lock is set.

To unlock the disc slot

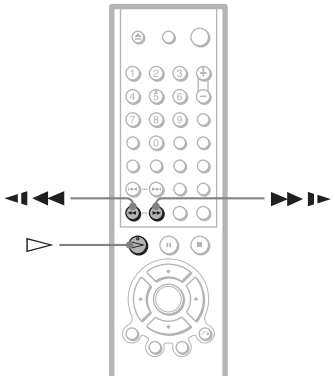
When the player is in standby mode, press RETURN, ENTER, and then I/⏻ again.

Note

Even if you select "RESET" under "SETUP" in the Control Bar (page 62), the disc slot remains locked.

Searching for a Particular Point on a Disc (Scan, Slow-motion Play)

You can quickly locate a particular point on a disc by monitoring the picture or playing back slowly.



Note

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

Locating a point quickly by playing a disc in fast forward or fast reverse (Scan) DVD VCD CD DATA CD

Press ◄I ◄◄ or ►► I► while playing a disc. When you find the point you want, press ▷ to return to normal speed. Each time you press ◄I ◄◄ or ►► I► during scan, the playback speed changes. Three speeds are available. With each press the indication changes as follows:

Playback direction

×2► (DVD/CD only) → 1►► → 2►►

Opposite direction

×2◄ (DVD only) → 1◄◄ → 2◄◄

→ continued

The "×2▶"/"×2◀" playback speed is about twice the normal speed. The "2▶▶"/"2◀◀" playback speed is faster than "1▶▶"/"1◀◀."

Watching frame by frame (Slow-motion play) DVD VCD

Press ◀❙ ◀◀ or ▶▶ ❙▶ when the player is in pause mode. To return to the normal speed, press ▷.
Each time you press ◀❙ ◀◀ or ▶▶ ❙▶ during Slow-motion play, the playback speed changes. Two speeds are available. With each press the indication changes as follows:

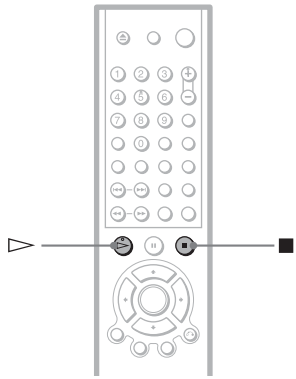
Playback direction
2 ❙▶ ⟷ 1 ❙▶

Opposite direction (DVD only)
2 ◀❙ ⟷ 1 ◀❙

The "2 ❙▶"/"2 ◀❙" playback speed is slower than "1 ❙▶"/"1 ◀❙."

Resuming Playback from the Point Where You Stopped the Disc (Multi-disc Resume) DVD VCD

The player stores the point where you stopped the disc for up to 6 discs and resumes playback the next time you insert the same disc. When you store a resume playback point for the 7th disc, the resume playback point for the first disc is deleted.



1 While playing a disc, press ■ to stop playback.

"Disc resumes from this point." appears on the TV screen.

2 Press ▷.

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

Hints

- To play from the beginning of the disc, press ■ twice, then press ▷.
- For CDs and DATA CDs, the player remembers the resume playback point for the current disc unless the disc is ejected, the power cord plug is disconnected, or only for DATA CDs, the player enters standby mode.

Notes

- "MULTI-DISC RESUME" in "CUSTOM SETUP" must be set to "ON" (default) for this function to work (page 66).
- The resume playback point for the current disc is cleared when:

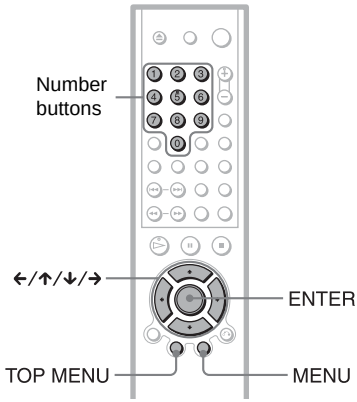
– you change the play mode.
– you change the settings on the Setup Display.

- This function may not work with some discs.
- Resume Play does not work during Shuffle Play and Programme Play.

Using the DVD's Menu

DVD

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 TOP MENU button.
When you play DVDs that allow you to select items such as the language for the subtitles and the language for the sound, select these items using the MENU button.



1 Press TOP MENU or MENU.

The disc's menu appears on the TV screen.
The contents of the menu vary from disc to disc.

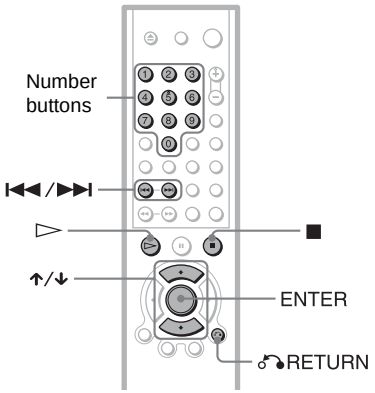
2 Press ←/↑/↓/→ or the number buttons to select the item you want to play or change.

3 Press ENTER.

Playing VIDEO CDs with PBC Functions (PBC Playback)

VCD

PBC (Playback Control) allows you to play VIDEO CDs interactively by following the menu on the TV screen.



1 Start playing a VIDEO CD with PBC functions.

The menu for your selection appears.

2 Select the item number and track you want using ↑/↓ or the number buttons.

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 depending on the VIDEO CD.

To return to the menu

Press RETURN.

Hint

To play without using PBC, press ⏮/⏭ while the player is stopped to select a track, then press ▷ or ENTER.

"Play without PBC." appears on the TV screen and the player starts continuous play. You cannot play still pictures such as a menu.

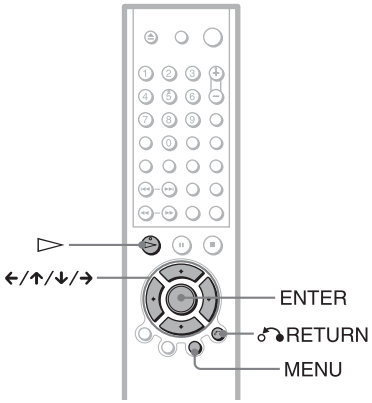
To return to PBC playback, press ■ twice then press ▷.

Notes

- Depending on the VIDEO CD, "Press ENTER" in Step 3 may appear as "Press SELECT" in the instructions supplied with the disc. In this case, press ▷.
- The PBC functions of Super VCDs do not work with this player. Super VCDs are played in continuous play mode only.

Playing an MP3 Audio Track DATA CD

You can play back DATA CDs (CD-ROMs/CD-Rs/CD-RWs) recorded in MP3 (MPEG1 Audio Layer 3) format.



1 Insert a DATA CD in the player.

2 Press ▷.

The player starts to play the first MP3 audio track in the first album on the disc.

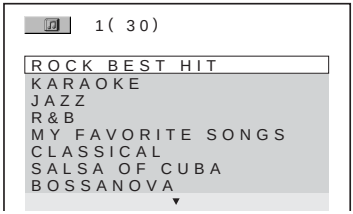
Notes

- The playback order may be different from the edited order. See "The playback order of MP3 audio tracks" (page 38) for details.
- This player can play MP3 audio tracks recorded in the following sampling frequencies: 32 kHz, 44.1 kHz, 48 kHz.

Selecting an album and track

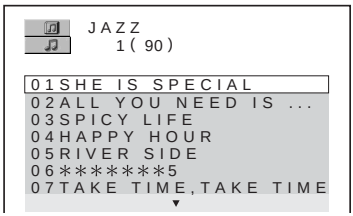
1 Press MENU.

The list of MP3 albums recorded on the DATA CD appears.



2 Select an album using ↑/↓ and press ENTER.

The list of tracks contained in the album appears.



3 Select a track using ↑/↓ and press ENTER.

The selected track starts playing.
When a track or album is being played, its title is shaded.

To go to the next or previous page

Press → or ←.

To return to the previous display

Press ↶ RETURN.

To turn off the display

Press MENU.

Notes

- Only the letters in the alphabet and numbers can be used for album or track names. Anything else is displayed as an asterisk (*).
- ID3 tags cannot be displayed.

→ continued

About MP3 audio tracks

You can play MP3 audio tracks on CD-ROMs, CD-Rs, or CD-RWs. However, the discs must be recorded according to ISO9660 level 1, level 2, or Joliet format for the player to recognize the tracks.
You can also play discs recorded in Multi Session.
See the instructions of the CD-R/RW device or recording software (not supplied) for details on the recording format.

To play a Multi Session CD

This player can play Multi Session CDs when an MP3 audio track is located in the first session. Any subsequent MP3 audio tracks, recorded in the later sessions, can also be played back.
When audio tracks and images in music CD format or video CD format are recorded in the first session, only the first session will be played back.

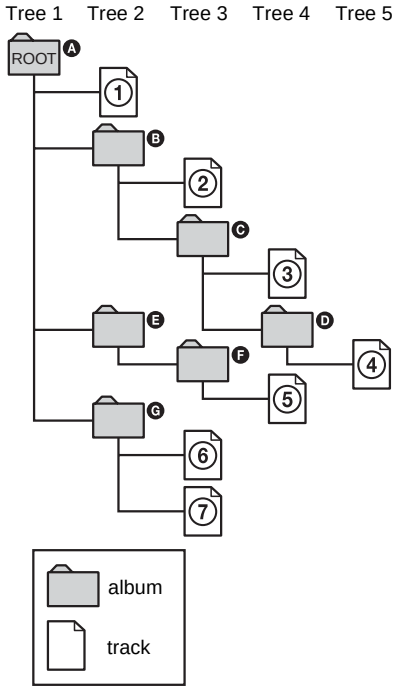
Notes

- If you put the extension ".MP3" to data not in MP3 format, the player cannot recognize the data properly and will generate a loud noise which could damage your speaker system.
- The player cannot play audio tracks in MP3PRO format.

The playback order of MP3 audio tracks

The playback order of albums and tracks recorded on a DATA CD is as follows.

◆Structure of disc contents



When you insert a DATA CD and press ▷, the numbered tracks are played sequentially, from ① through ⑦. Any sub-albums/tracks contained within a currently selected album take priority over the next album in the same tree. (Example: C contains D so ④ is played before ⑤.)
When you press MENU and the list of MP3 albums appears (page 37), the albums are arranged in the following order: A → B → C → D → F → G. Albums that do not contain tracks (such as album E) do not appear in the list.

Hints

- If you add numbers (01, 02, 03, etc.) to the front of the track names, the tracks will be played in that order.
- Since a disc with many trees takes longer to start playback, place your albums within the first two trees.

Notes

- Depending on the software you use to create the DATA CD, the playback order may differ from the illustration above.
- The playback order above may not be applicable if there are more than a total of 200 albums and tracks in the DATA CD.
- The player can recognize up to 100 albums (the player will count just albums, including albums that do not contain MP3 audio tracks). The player will not play any albums beyond the first 100 albums. Of the first 100 albums, the player will play no more than a combined total of 200 albums and tracks.

Various Play Mode Functions (Programme Play, Shuffle Play, Repeat Play, A-B Repeat Play)

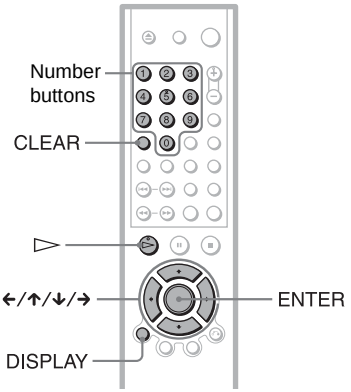
You can set the following play modes:
- Programme Play (page 39)
- Shuffle Play (page 41)
- Repeat Play (page 42)
- A-B Repeat Play (page 43)

Note

The play mode is canceled when:
– the player enters standby mode by pressing I/⏻.
– you eject the disc.

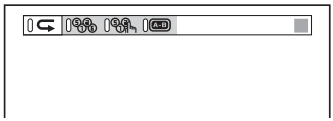
Creating your own programme (Programme Play) DVD VCD CD

You can play the contents of a disc in the order you want by arranging the order of the titles, chapters, or tracks on the disc to create your own programme.
You can programme up to 99 items.



1 Press DISPLAY twice while the player is in stop mode.

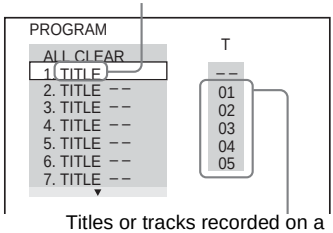
The following Control Bar appears.



→ continued

2 Press ←/→ to select (PROGRAM), then press ENTER.

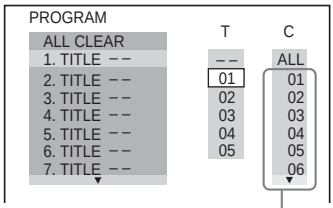
"TRACK" is displayed when you play a VIDEO CD or CD.



Titles or tracks recorded on a disc

3 Press →.

The cursor moves to the title or track row "T" (in this case, "01").



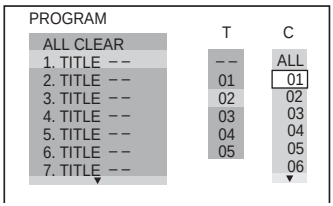
Chapters recorded on a disc

4 Select the title, chapter, or track you want to programme.

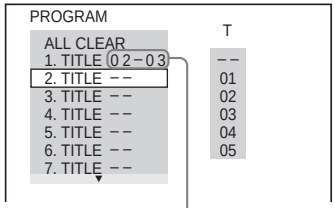
◆ When playing a DVD

For example, select chapter "03" of title "02."

Press ↑/↓ or the number buttons to select "02" under "T," then press ENTER.



Next, press ↑/↓ or the number buttons to select "03" under "C," then press ENTER.



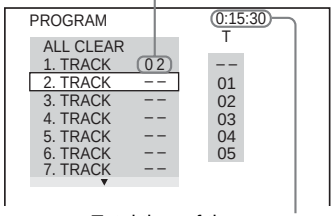
Selected title and chapter

◆ When playing a VIDEO CD or CD

For example, select track "02."

Press ↑/↓ or the number buttons to select "02" under "T," then press ENTER.

Selected track



Total time of the programmed tracks

5 To programme other titles, chapters, or tracks, repeat Steps 3 to 4.

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

6 Press ▷ to start Programme Play.

Programme Play begins.

When the programme ends, you can restart the same programme again by pressing ▷.

To stop Programme Play

Press CLEAR.

To turn off the display

Press DISPLAY repeatedly until the display is turned off.

To cancel or change a programme

1 Follow Steps 1 and 2 of "Creating your own programme (Programme Play)."

2 Select the programme number of the title, chapter, or track you want to cancel or

change using ↑/↓ or the number buttons, and press →.

3 Follow Step 5 for new programming. To cancel a program, select "--" under "T," then press ENTER.

To cancel all the titles, chapters, or tracks in the programme

1 Follow Steps 1 and 2 of "Creating your own programme (Programme Play)."

2 Press ↑ and select "ALL CLEAR."

3 Press ENTER.

Hint

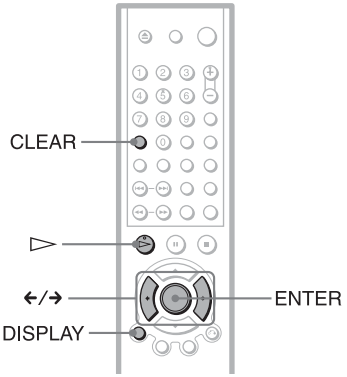
You can do Repeat Play or Shuffle Play of the programmed titles, chapters, or tracks. During Programme Play, follow the steps of "Repeat Play" (page 42) or "Shuffle Play" (page 41).

Note

When playing Super VCDs, the total time of the programmed tracks does not appear on the screen.

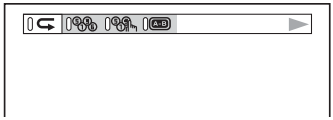
Playing in random order (Shuffle Play) DVD VCD CD

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

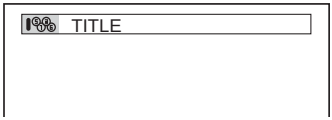


1 Press DISPLAY during playback.

The following Control Bar appears.



2 Press ←/→ to select (SHUFFLE), then press ENTER repeatedly to select the item to be shuffled.



◆ **When playing a DVD**
- TITLE
- CHAPTER

◆ **When playing a VIDEO CD or CD**
- TRACK

◆ **When Programme Play is activated**
- ON: shuffles titles, chapters, or tracks selected in Programme Play.

→ continued

To return to normal play

Press CLEAR, or select “OFF” in Step 2.

To turn off the Control Bar

Press DISPLAY repeatedly until the Control Bar is turned off.

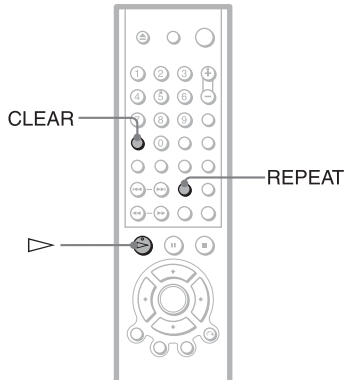
Hints

- You can set Shuffle Play while the player is stopped. After selecting the “SHUFFLE” option, press ▷. Shuffle Play starts.
- Up to 200 chapters in a disc can be played in random order when “CHAPTER” is selected.

Playing repeatedly (Repeat Play)

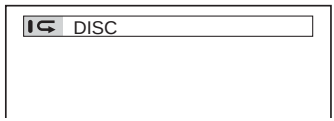
DVD VCD CD DATA CD

You can play all of the titles, albums or tracks on a disc or a single title, chapter, album, or track repeatedly.
You can use a combination of Shuffle or Programme Play modes.



1 **Press REPEAT during playback.**

The following Control Bar appears.



2 **Press REPEAT repeatedly to select the item you want to set.**

◆ When playing a DVD

- DISC: repeats all of the titles.
- TITLE: repeats the current title on a disc.
- CHAPTER: repeats the current chapter.

◆ When playing a VIDEO CD or CD

- DISC: repeats all of the tracks.
- TRACK: repeats the current track.

◆ When playing a DATA CD (MP3 audio)

- DISC: repeats all of the albums.
- ALBUM: repeats the current album.
- TRACK: repeats the current track.

◆ When Programme Play or Shuffle Play is activated

- ON: repeats Programme Play or Shuffle Play.

To return to normal play

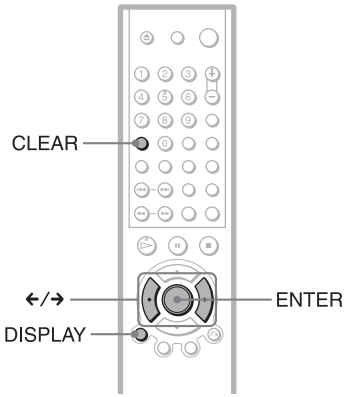
Press CLEAR, or select “OFF” in Step 2.

Hint

You can set Repeat Play while the player is stopped. After selecting the “REPEAT” option, press ▷. Repeat Play starts.

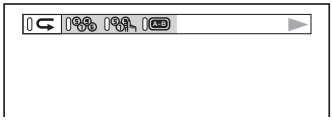
Repeating a specific portion (A-B Repeat Play) DVD VCD CD

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



1 Press DISPLAY during playback.

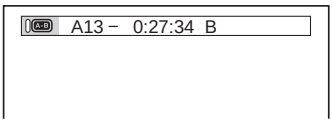
The following Control Bar appears.



2 Press ←/→ to select (A-B REPEAT).

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.

→ continued

To return to normal play

Press CLEAR.

To turn off the Control Bar

Press DISPLAY repeatedly until the Control Bar is turned off.

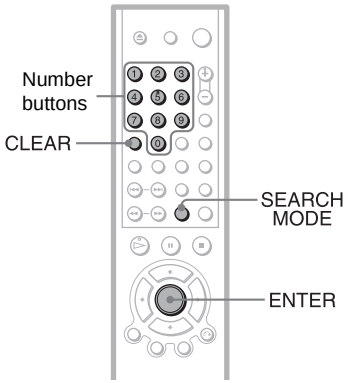
Note

When you set A-B Repeat Play, the settings for Shuffle Play, Repeat Play, and Programme Play are canceled.

Searching for a Title/ Chapter/Track/Index/ Scene (Search mode)

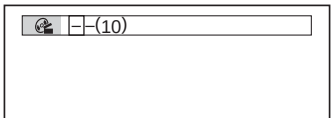
DVD VCD CD DATA CD

You can search a DVD by title or chapter, and you can search a VIDEO CD/CD/DATA CD by track, index, or scene. As titles and tracks are assigned unique numbers on the disc, you can select the desired one by entering its number. Or, you can search for a scene using the time code.



1 Press SEARCH MODE.

The following display appears.
"-- (∗∗)" appears next to the icon (∗∗ refers to a number).
The number in parentheses indicates the total number of titles, tracks, indexes, scenes, etc. of the disc.



2 Press SEARCH MODE repeatedly to select the search method.

◆ When playing a DVD
(TITLE)
(CHAPTER)
(TIME/TEXT)
(NUMBER INPUT)
Select "TIME/TEXT" to search for a starting point by inputting the time code.

◆ When playing a VIDEO CD
(TRACK)
(INDEX)

◆ When playing a VIDEO CD with PBC Playback
(SCENE)
(INDEX)

◆ When playing a CD
(TRACK)
(INDEX)

◆ When playing a DATA CD (MP3 audio)
(ALBUM)
(TRACK)

3 Select the number of the title, track, scene, time code, etc. you want using the number buttons.

For example, to find the scene at 2 hours, 10 minutes, and 20 seconds after the beginning, select "TIME/TEXT" in Step 2 and enter "2:10:20."

If you make a mistake

Cancel the number by pressing CLEAR, then select another number.

4 Press ENTER.

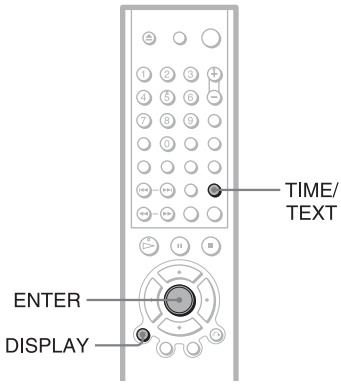
The player starts playback from the selected number.

Hint

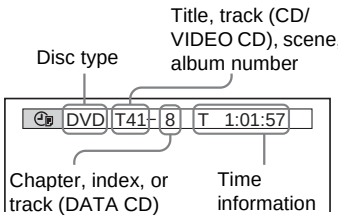
If you are playing a disc and it is necessary to enter a number, select "NUMBER INPUT" in Step 2.

Checking the Playing Time and Remaining Time DVD VCD CD DATA CD

You can check the playing time and remaining time of the current title, chapter, or track. Also, you can check the DVD/CD text or track name (MP3 audio) recorded on the disc.



1 Press DISPLAY repeatedly during playback until (TIME/TEXT) appears.



2 Press ENTER repeatedly to change the time information.

The display and the kinds of time that you can change depend on the disc you are playing.

◆ When playing a DVD

- T ∗:∗:∗ (hours:minutes:seconds)
  Playing time of the current title
- T–∗:∗:∗
  Remaining time of the current title
- C ∗:∗:∗
  Playing time of the current chapter
- C–∗:∗:∗
  Remaining time of the current chapter

◆ When playing a VIDEO CD (with PBC functions)

- ∗:∗ (minutes:seconds)
  Playing time of the current scene

◆ When playing a VIDEO CD (without PBC functions) or CD

- T ∗:∗ (minutes:seconds)
  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

◆ When playing a DATA CD (MP3 audio)

- ∗:∗ (minutes:seconds)
  Playing time of the current track

◆ When playing a Super VCD

- T ∗:∗ (minutes:seconds)
  Playing time of the current track

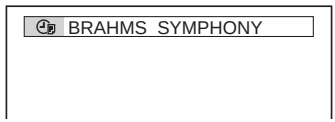
To turn off the Control Bar

Press DISPLAY repeatedly until the Control Bar is turned off.

To check the DVD/CD text or track name (MP3 audio)

Press ENTER repeatedly in Step 2 to display text recorded on the DVD/CD/DATA CD. The DVD/CD text appears only when text is recorded in the disc. You cannot change the text. If the disc does not contain text, "NO TEXT" appears.

For DATA CDs, only the track name of the MP3 audio track appears.



Hints

- When playing VIDEO CDs with PBC functions, the scene number and the playing time are displayed.
- You can also check the time information and text by pressing TIME/TEXT repeatedly.

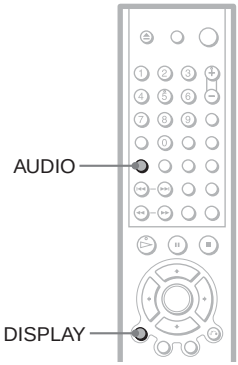
Notes

- Depending on the type of disc being played, the disc's text or track name may not be displayed.
- The player can only display the first level of the DVD/CD text, such as the disc name or title.
- Playing time of MP3 audio tracks may not be displayed correctly.

Changing the Sound

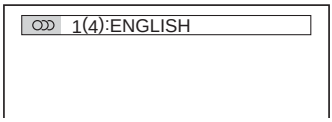
DVD VCD CD DATA CD

When playing a DVD recorded in multiple audio formats (PCM, Dolby Digital, MPEG audio, or DTS), you can change the audio format. If the DVD is recorded with multilingual tracks, you can also change the language.
With CDs, DATA 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. For example, when playing a disc containing a song with the vocals on the right channel and the instruments on the left channel, you can hear the instruments from both speakers by selecting the left channel.



1 Press AUDIO during playback.

The following display appears.
The number in parentheses indicates the total number of available audio signals.



2 Press AUDIO repeatedly to select the desired audio signal.

◆ When playing a DVD
Depending on the DVD, the choice of language varies.
When 4 digits are displayed, they indicate a language code. Refer to "Language Code List" on page 74 to see which language the code represents.
When the same language is displayed two or more times, the DVD is recorded in multiple audio formats.

◆ When playing a VIDEO CD, CD, or DATA CD (MP3 audio)
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)

◆ When playing a Super VCD
The default setting is underlined.
- 1:STEREO: The stereo sound of the audio track 1
- 1:1/L: The sound of the left channel of the audio track 1 (monaural)
- 1:2/R: The sound of the right channel of the audio track 1 (monaural)
- 2:STEREO: The stereo sound of the audio track 2
- 2:1/L: The sound of the left channel of the audio track 2 (monaural)
- 2:2/R: The sound of the right channel of the audio track 2 (monaural)

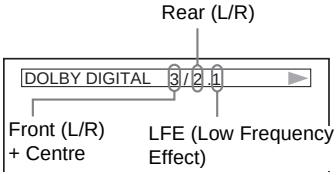
Note

While playing a Super VCD on which the audio track 2 is not recorded, no sound will come out when you select "2:STEREO," "2:1/L" or "2:2/R."

Checking the audio signal format DVD

If you press DISPLAY repeatedly during playback, the format of the current audio signal (Dolby Digital, MPEG audio, DTS, PCM, etc.) appears as shown below.

Example:
Dolby Digital 5.1 ch



About audio signals

Audio signals recorded in a disc contain the sound elements (channels) shown below. Each channel is output from a separate speaker.

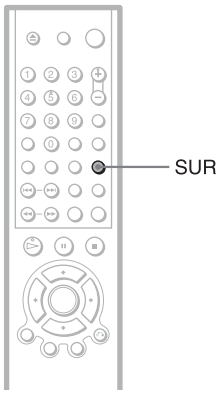
- Front (L)
- Front (R)
- Centre
- Rear (L)
- Rear (R)
- Rear (Monaural): This signal can be either the Dolby Surround Sound processed signals or the Dolby Digital sound's monaural rear audio signals.
- LFE (Low Frequency Effect) signal

Note

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 (page 68).

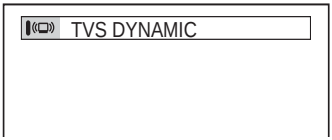
TV Virtual Surround Settings (TVS) DVD

When you connect a stereo TV or 2 front speakers, TVS (TV Virtual Surround) lets you enjoy surround sound effects by using sound imaging to create virtual rear speakers from the sound of the front speakers (L: left, R: right) without using actual rear speakers. TVS was developed by Sony to produce surround sound for home use using just a stereo TV.



1 Press SUR during playback.

The following Control Bar appears.



2 Press SUR repeatedly to select one of the TVS sounds.

Refer to the following explanations given for each item.

- TVS DYNAMIC
- TVS WIDE
- TVS NIGHT
- TVS STANDARD

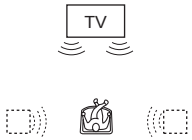
To cancel the setting

Select "OFF" in Step 2.

→ continued

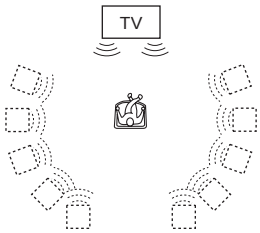
◆TVS DYNAMIC

Creates virtual rear speakers from the sound of the front speakers (L, R) without using actual rear speakers (shown below).
This mode is effective when the distance between the front L and R speakers is short, such as with built-in speakers on a stereo TV.



◆TVS WIDE

Creates 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.
This mode is effective when the distance between the front L and R speakers is short, such as with built-in speakers on a stereo TV.

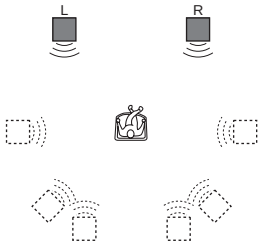


◆TVS NIGHT

Large sounds, such as explosions, are suppressed, but the quieter sounds are unaffected. This feature is useful when you want to hear the dialog and enjoy the surround sound effects of “TVS WIDE” at low volume.

◆TVS STANDARD

Creates 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. Use this setting when you want to use TVS with 2 separate speakers.



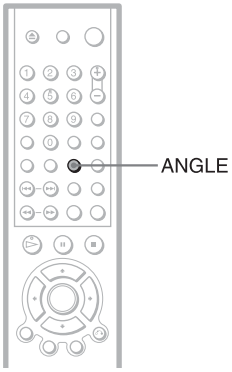
L : Front speaker (left)
R : Front speaker (right)
⬚ : Virtual speaker

Notes

- When the playing signal does not contain a signal for the rear speakers, the surround effects will be difficult to hear.
- When you select one of the TVS modes, turn off the surround setting of the connected TV or amplifier (receiver).
- Make sure that your listening position is between and at an equal distance from your speakers, and that the speakers are located in similar surroundings.
- “TVS NIGHT” only works with Dolby Digital discs. However, not all discs will respond to the “TVS NIGHT” function in the same way.
- When you use the DIGITAL OUT (OPTICAL) jack to listen to MPEG audio signals and set “MPEG” to “MPEG” in “AUDIO SETUP,” no sound will come from your speakers if you select one of the TVS modes.

Changing the Angles DVD

If various angles (multi-angles) for a scene are recorded on the DVD, the indicator on the Control Bar lights up in blue. This means that you can change the viewing angle.



1 Press ANGLE during playback.

The following Control Bar appears.
The number in parentheses indicates the total number of angles.

2 Press ANGLE repeatedly to select the angle number.

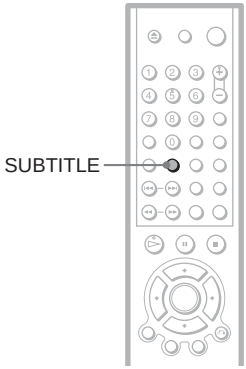
The scene changes to the selected angle.

Note

Depending on the DVD, you may not be able to change the angles even if multi-angles are recorded on the DVD.

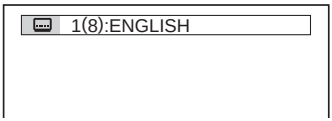
Displaying the Subtitles DVD

If subtitles are recorded on the discs, you can change the subtitles or turn them on and off whenever you want while playing a DVD.



1 Press SUBTITLE during playback.

The following display appears.
The number in parentheses indicates the total number of available subtitles.



2 Press SUBTITLE repeatedly to select the language.

Depending on the DVD, the choice of language varies.
When 4 digits are displayed, they indicate a language code. Refer to “Language Code List” on page 74 to see which language the code represents.

→ continued

To turn off the subtitles

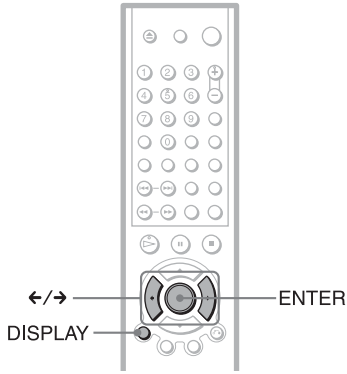
Select “OFF” in Step 2.

Note

Depending on the DVD, you may not be able to change the subtitles even if multilingual subtitles are recorded on it. You also may not be able to turn them off.

Adjusting the Picture Quality (BNR) DVD VCD

The Block Noise Reduction (BNR) function adjusts the picture quality by reducing the “block noise” or mosaic like patterns that appear on your TV screen.



1 Press DISPLAY twice during playback.

The following Control Bar appears.

2 Press ←/→ to select (BNR), then press ENTER repeatedly to select a level.

- 1: reduces the “block noise.”
- 2: reduces the “block noise” more than 1.
- 3: reduces the “block noise” more than 2.

To cancel the "BNR" setting

Select "OFF" in Step 2.

To turn off the Control Bar

Press DISPLAY repeatedly until the Control Bar is turned off.

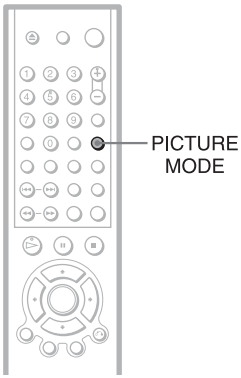
Notes

- If the outlines of the images on your screen should become blurred, set "BNR" to "OFF."
- Depending on the disc or the scene being played, the "BNR" effect may be hard to discern.

Adjusting the Playback Picture (CUSTOM PICTURE MODE)

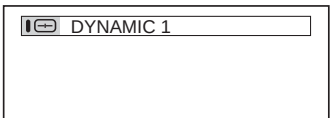
DVD VCD

You can adjust the video signal of the DVD or VIDEO CD from the player to obtain the picture quality you want. Choose the setting that best suits the programme you are watching.



1 Press PICTURE MODE during playback.

The following Control Bar appears.



2 Press PICTURE MODE repeatedly to select the setting you want.

The default setting is underlined.

- STANDARD: displays a standard picture.
- DYNAMIC 1: produces a bold dynamic picture by increasing the picture contrast and the colour intensity.
- DYNAMIC 2: produces a more dynamic picture than DYNAMIC 1 by further increasing the picture contrast and the colour intensity.
- CINEMA 1: enhances details in dark areas by increasing the black level.

→ continued

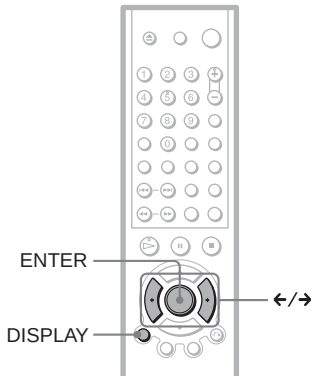
• CINEMA 2: White colours become brighter and black colours become richer, and the colour contrast is increased.

Hint

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

Enhancing the Playback Picture (DIGITAL VIDEO ENHANCER) DVD VCD

The Digital Video Enhancer (DVE) function makes the picture appear clear and crisp by enhancing the outlines of images on your TV screen. Also, this function can soften the images on the screen.



1 Press DISPLAY twice during playback.

The following Control Bar appears.

2 Press ←/→ to select (DIGITAL VIDEO ENHANCER), then press ENTER repeatedly to select a level.

• 1: enhances the outline.
• 2: enhances the outline more than 1.
• 3: enhances the outline more than 2.
• SOFT: softens the image (DVD only).

To cancel the “DIGITAL VIDEO ENHANCER” setting

Select “OFF” in Step 2.

To turn off the Control Bar

Press DISPLAY repeatedly until the Control Bar is turned off.

Note

Depending on the disc or the scene being played, noise found in the disc may become more apparent. If this happens, it is recommended that you use the BNR function (page 52) with the DVE function. If the condition still does not improve, reduce the Digital Video Enhancer level, or select “SOFT” (DVD only) in Step 2 above.

Locking Discs (CUSTOM PARENTAL CONTROL, PARENTAL CONTROL)

You can set two kinds of playback restrictions for the desired disc.

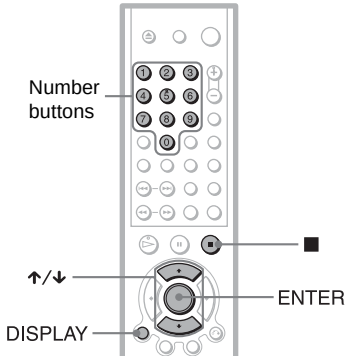
- Custom Parental Control
  You can set playback restrictions so that the player will not play inappropriate discs.
- Parental Control
  Playback of some DVDs can be limited according to a predetermined level such as the age of the users. Scenes may be blocked or replaced with different scenes.

The same password is used for both Parental Control and Custom Parental Control.

Custom Parental Control

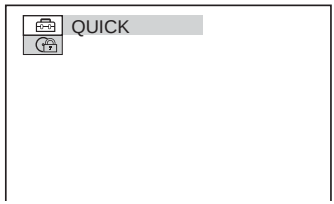
DVD VCD CD

You can set the same Custom Parental Control password for up to 40 discs. When you set the 41st-disc, the first disc is canceled.

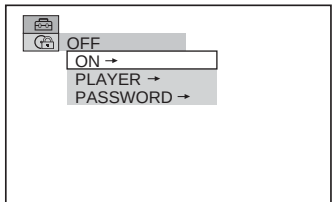


1 Insert the disc you want to lock.
If the disc is playing, press ■ to stop playback.

2 Press DISPLAY while the player is in stop mode.
The following Control Bar appears.

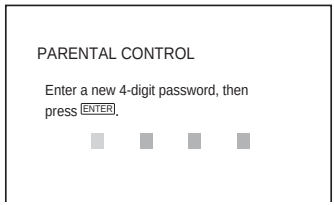


3 Press ↑/↓ to select (PARENTAL CONTROL), then press ENTER.
The options for "PARENTAL CONTROL" appear.



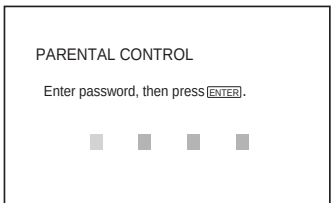
4 Press ↑/↓ to select "ON →," then press ENTER.

◆ If you have not entered a password
The display for registering a new password appears.



Enter a 4-digit password using the number buttons, then press ENTER. The display for confirming the password appears.

◆ When you have already registered a password
The display for entering the password appears.



5 **Enter or re-enter your 4-digit password using the number buttons, then press ENTER.**

"Custom parental control is set." appears when you enter your password.

To turn off the Custom Parental Control function

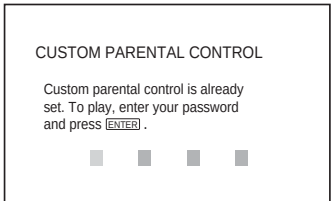
1 Follow Steps 1 through 3 of "Custom Parental Control."

2 Press ↑/↓ to select "OFF →," then press ENTER.

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

To play a disc for which Custom Parental Control is set

1 Insert the disc for which Custom Parental Control is set.
The "CUSTOM PARENTAL CONTROL" display appears.



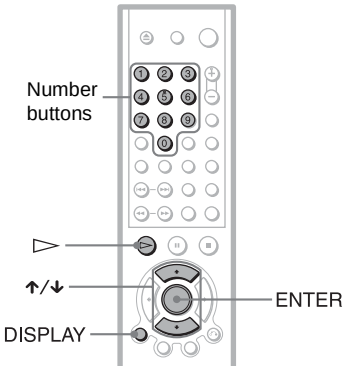
2 Enter your 4-digit password using the number buttons, then press ENTER.
The player is ready for playback.

Hint

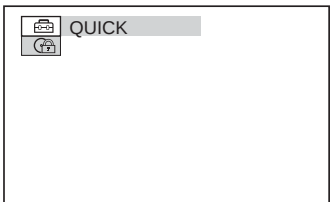
If you forget your password, enter the 6-digit number "199703" using the number buttons when the "CUSTOM PARENTAL CONTROL" display asks you for your password, then press ENTER. The display will ask you to enter a new 4-digit password.

Parental Control (limited playback) DVD

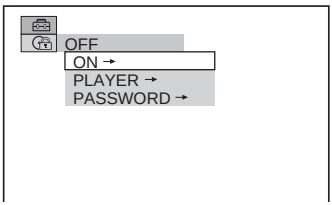
Playback of some DVDs can be limited according to a predetermined level such as the age of the users. The "PARENTAL CONTROL" function allows you to set a playback limitation level.



1 **Press DISPLAY while the player is in stop mode.**
The following Control Bar appears.



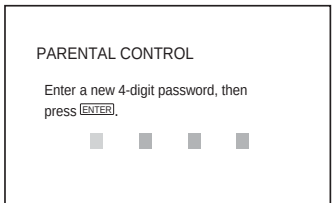
2 **Press ↑/↓ to select (PARENTAL CONTROL), then press ENTER.**
The options for "PARENTAL CONTROL" appear.



→ continued

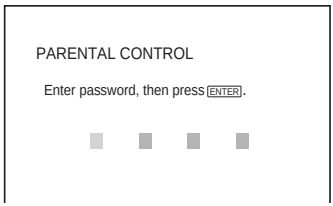
3 Press ↑/↓ to select "PLAYER →," then press ENTER.

◆ If you have not entered a password
The display for registering a new password appears.

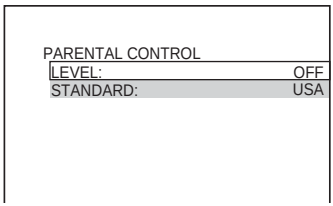


Enter a 4-digit password using the number buttons, then press ENTER.
The display for confirming the password appears.

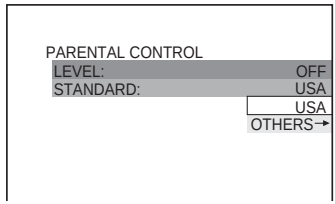
◆ When you have already registered a password
The display for entering the password appears.



4 Enter or re-enter your 4-digit password using the number buttons, then press ENTER.
The display for setting the playback limitation level appears.

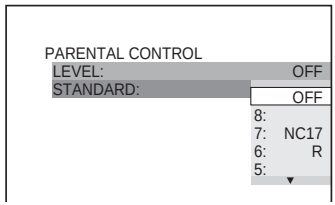


5 Press ↑/↓ to select "STANDARD," then press ENTER.
The selection items for "STANDARD" are displayed.

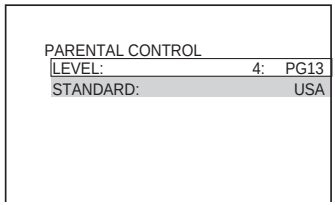


6 Press ↑/↓ to select a geographic area as the playback limitation level, then press ENTER.
The area is selected.
When you select "OTHERS →," select and enter a standard code in the table on page 59.

7 Press ↑/↓ to select "LEVEL," then press ENTER.
The selection items for "LEVEL" are displayed.



8 Select the level you want using ↑/↓, then press ENTER.
Parental Control setting is complete.



The lower the value, the stricter the limitation.

To turn off the Parental Control function
Set "LEVEL" to "OFF" in Step 8.

To play a disc for which Parental Control is set

1 Insert the disc and press ▷.
The display for entering your password appears.

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

Hint

If you forget your password, remove the disc and repeat Steps 1 to 3 of "Parental Control (limited playback)." When you are asked to enter your password, enter "199703" using the number buttons, then press ENTER. The display will ask you to enter a new 4-digit password. After you enter a new 4-digit password in Step 4, replace the disc in the player and press ▷. When the display for entering your password appears, enter your new password.

Note

When you play DVDs which do not have the Parental Control function, playback cannot be limited on this player.

Area Code

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
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
Thailand	2528
United Kingdom	2184

Changing the password

1 Press DISPLAY while the player is in stop mode.
The Control Bar appears.

2 Press ↑/↓ to select (PARENTAL CONTROL), then press ENTER.
The options for "PARENTAL CONTROL" appear.

3 Press ↑/↓ to select "PASSWORD →," then press ENTER.
The display for entering the password appears.

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

5 Enter a new 4-digit password using the number buttons, then press ENTER.

6 To confirm your password, re-enter it using the number buttons, then press ENTER.

→ continued

If you make a mistake entering your password

Press ← before you press ENTER and input the correct number.

If you make a mistake

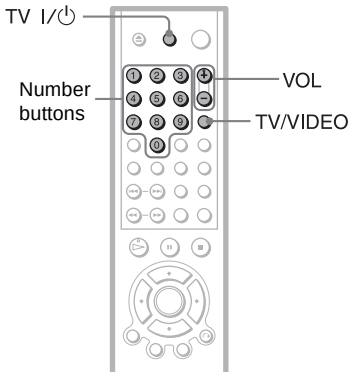
Press ↩ RETURN.

To turn off the display

Press DISPLAY repeatedly until the display is turned off.

Controlling Your TV with the Supplied Remote

You can control the sound level, input source, and power switch of your TV with the supplied remote. Set the appropriate manufacturer's code.



1 While holding down TV I/⏻, press the number buttons to select your TV's manufacturer's code (see the table below).

2 Release TV I/⏻.

Code numbers of controllable TVs

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

Manufacturer	Code number
Sony (default)	01
Grundig	11
Hitachi	24
JVC	33
LG	06
Panasonic	17, 49
Philips	06, 08
Samsung	06
Sanyo	25
Sharp	29
Thomson	43
Toshiba	38

You can control your TV using the buttons below.

By pressing	You can
TV I/⏻	Turn the TV on or off
VOL +/–	Adjust the volume of the TV
TV/VIDEO	Switch the TV's input source between the TV and other input sources

Notes

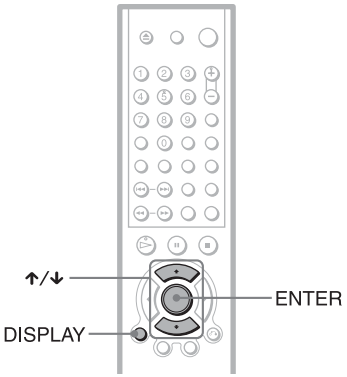
- Depending on the unit being connected, you may not be able to control your TV using some of the buttons.
- If you enter a new code number, the code number previously entered will be erased.
- When you replace the batteries of the remote, the code number you have set may be reset to the default setting. Set the appropriate code number again.

Using the Setup Display

By using the Setup Display, you can make various adjustments to items such as picture and sound. You can also set a language for the subtitles and the Setup Display, among other things. The on-screen displays differ depending on the player model. For details on each Setup Display item, see pages from 63 to 68.

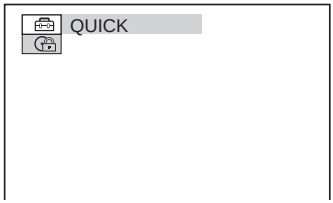
Note

Playback settings stored in the disc take priority over the Setup Display settings and not all the functions described may work.



1 Press DISPLAY when the player is in stop mode.

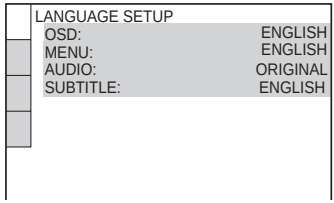
The Control Bar appears.



2 Press ↑/↓ to select (SETUP), then press ENTER.

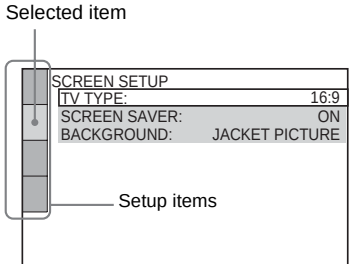
3 Press ↑/↓ to select "CUSTOM," then press ENTER.

The Setup Display appears.



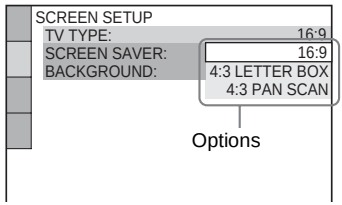
4 Press ↑/↓ to select the setup item from the displayed list: "LANGUAGE SETUP," "SCREEN SETUP," "CUSTOM SETUP," or "AUDIO SETUP." Then press ENTER.

The Setup item is selected.
Example: "SCREEN SETUP"



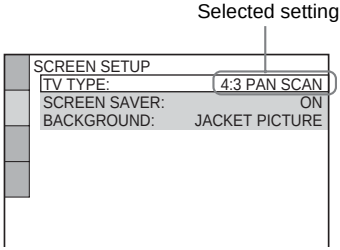
5 Select an item using ↑/↓, then press ENTER.

The options for the selected item appear.
Example: "TV TYPE"



6 Select a setting using ↑/↓, then press ENTER.

The setting is selected and setup is complete.
Example: “4:3 PAN SCAN”



To turn off the display

Press DISPLAY repeatedly until the display is turned off.

To enter the Quick Setup mode

Select “QUICK” in Step 3. Follow from Step 5 of the Quick Setup explanation to make basic adjustments (page 28).

To reset all of the “SETUP” settings

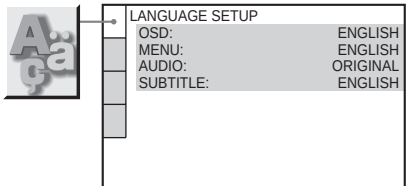
1. Select “RESET” in Step 3 and press ENTER.
2. Select “YES” using ↑/↓.
   You can also quit the process and return to the Control Bar by selecting “NO” here.
3. Press ENTER.
   All the settings explained on pages 63 to 68 return to the default settings. Do not press I/⏻ while resetting the player as it takes a few seconds to complete.

Setting the Display or Sound Track Language

(LANGUAGE SETUP)

“LANGUAGE SETUP” allows you to set various languages for the on-screen display or sound track.

Select “LANGUAGE SETUP” in the Setup Display. To use the display, see “Using the Setup Display” (page 62).



◆ OSD (On-Screen Display)

Switches the display language on the screen.

◆ MENU (DVD only)

You can select the desired language for the disc’s menu.

◆ AUDIO (DVD only)

Switches the language of the sound track. When you select “ORIGINAL,” the language given priority in the disc is selected.

◆ SUBTITLE (DVD only)

Switches the language of the subtitle recorded on the DVD.
When you select “AUDIO FOLLOW,” the language for the subtitles changes according to the language you selected for the sound track.

Hint

If you select “OTHERS →” in “MENU,” “SUBTITLE,” and “AUDIO,” select and enter a language code from “Language Code List” on page 74 using the number buttons.

Note

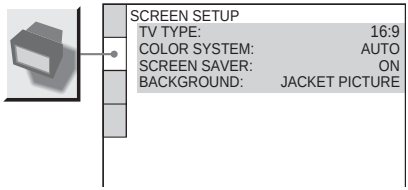
When you select a language in “MENU,” “SUBTITLE,” or “AUDIO” that is not recorded on the DVD, one of the recorded languages will be automatically selected.

Settings for the Display

(SCREEN SETUP)

Choose settings according to the TV to be connected.

Select “SCREEN SETUP” in the Setup Display. To use the display, see “Using the Setup Display” on page 62.
The default settings are underlined.
The on-screen displays differ depending upon the player model.

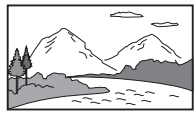


◆ TV TYPE

Selects the aspect ratio of the connected TV (4:3 standard or wide).

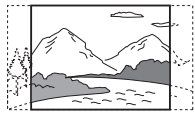
16:9	Select this when you connect a wide-screen TV or a TV with a wide mode function.
4:3 LETTER BOX	Select this when you connect a 4:3 screen TV. Displays a wide picture with bands on the upper and lower portions of the screen.
4:3 PAN SCAN	Select this when you connect a 4:3 screen TV. Automatically displays the wide picture on the entire screen 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” or vice versa.

◆ COLOR SYSTEM (VIDEO CD only; For Asian models only)

Selects the colour system when you play a VIDEO CD.

AUTO	Outputs the video signal in the system of the VIDEO CD, either PAL or NTSC. If your TV is the DUAL system, select AUTO.
PAL	Changes the video signal of an NTSC VIDEO CD and outputs it in the PAL system.
NTSC	Changes the video signal of a PAL VIDEO CD and outputs it in the NTSC system.

Notes

- You cannot change the colour system for DVDs.
- You can change the colour system of this player according to the connected TV. See page 15.

◆ SCREEN SAVER

The screen saver image appears when you leave the player in pause or stop mode for 15 minutes, or when you play back a CD or DATA CD (MP3 audio) for more than 15 minutes. The screen saver will help prevent your display device from becoming damaged (ghosting). Press ▷ to turn off the screen saver.

ON	Turns on the screen saver.
OFF	Turns off the screen saver.

◆ BACKGROUND

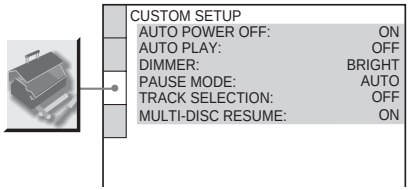
Selects the background colour or picture on the TV screen in stop mode or while playing a CD or DATA CD (MP3 audio).

JACKET PICTURE	The jacket picture (still picture) appears, but only when the jacket picture is already recorded on the disc (CD-EXTRA, etc.). If the disc does not contain a jacket picture, the "GRAPHICS" picture appears.
GRAPHICS	A preset picture stored in the player appears.
BLUE	The background colour is blue.
BLACK	The background colour is black.

Custom Settings (CUSTOM SETUP)

Use this to set up playback related and other settings.

Select "CUSTOM SETUP" in the Setup Display. To use the display, see "Using the Setup Display" (page 62).
The default settings are underlined.
The on-screen displays differ depending upon the player model.



◆ AUTO POWER OFF

Switches the Auto Power Off setting on or off.
For Asian models, the default setting is "OFF."

ON	The player enters standby mode when left in stop mode for more than 30 minutes.
OFF	Switches this function off.

◆ AUTO PLAY

Switches the Auto Play setting on or off. This function is useful when the player is connected to a timer (not supplied).

OFF	Switches this function off.
ON	Automatically starts playback when the player is turned on.

◆ DIMMER

Adjusts the lighting of the blue illumination on the player.

BRIGHT	Makes the lighting bright.
DARK 1	Makes the lighting dark.
DARK 2	Makes the lighting darker.

→ continued

◆ PAUSE MODE (DVD only)

Selects the picture in pause mode.

AUTO	The picture, including subjects that move dynamically, is output with no jitter. Normally select this position.
FRAME	The picture, including subjects that do not move dynamically, is output in high resolution.

◆ TRACK SELECTION (DVD only)

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 the item to “AUTO,” the language may change. The “TRACK SELECTION” setting has higher priority than the “AUDIO” settings in “LANGUAGE SETUP” (page 63).
- If you set “DTS” to “OFF” (page 68), the DTS sound track is not played even if you set “TRACK SELECTION” to “AUTO.”
- 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.

◆ MULTI-DISC RESUME (DVD/VIDEO CD only)

Switches the Multi-disc Resume setting on or off. Resume playback can be stored in memory for up to 6 different DVD/VIDEO CD discs (page 34).

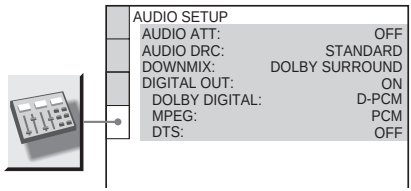
ON	Stores the resume settings in memory for up to 6 discs (The settings remain in memory even if you select “OFF.”)
OFF	Does not store the resume settings in memory. Playback restarts at the resume point only for the current disc in the player.

Settings for the Sound

(AUDIO SETUP)

“AUDIO SETUP” allows you to set the sound according to the playback and connection conditions.

Select “AUDIO SETUP” in the Setup Display. To use the display, see “Using the Setup Display” (page 62).
The default settings are underlined.



◆ AUDIO ATT (attenuation)

If the playback sound is distorted, set this item to “ON.” The player reduces the audio output level.
This function affects the output of the AUDIO OUT L/R jacks.

OFF	Normally, select this position.
ON	Select this when the playback sound from the speakers is distorted.

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

Makes the sound clear when the volume is turned down when playing a DVD that conforms to “AUDIO DRC.” This affects the output from the following jacks:
– AUDIO OUT L/R jacks
– DIGITAL OUT (OPTICAL) jack only when “DOLBY DIGITAL” is set to “D-PCM” (page 67).

STANDARD	Normally select this position.
TV MODE	Makes the low sounds clear even if you turn the volume down.
WIDE RANGE	Gives you the feeling of being at a live performance.

◆ DOWNMIX (DVD only)

Switches the method for mixing down to 2 channels when you play a DVD which has rear sound elements (channels) or is recorded in Dolby Digital format. For details on the rear signal components, see “Checking the audio signal format” (page 49). This function affects the output of the following jacks:

– AUDIO OUT L/R jacks
– DIGITAL OUT (OPTICAL) jack when “DOLBY DIGITAL” is set to “D-PCM” (page 67).

DOLBY SURROUND	Select this when the player is connected to an audio component that conforms to Dolby Surround (Pro Logic).
NORMAL	Select this when the player is connected to an audio component that does not conform to Dolby Surround (Pro Logic).

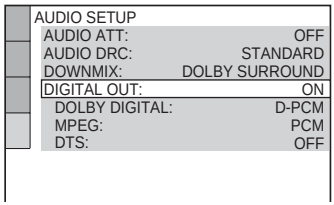
◆ DIGITAL OUT

Selects if audio signals are output via the DIGITAL OUT (OPTICAL) jack.

ON	Normally select this position. When you select “ON,” see “Setting the digital output signal” for further settings.
OFF	The influence of the digital circuit upon the analog circuit is minimal.

Setting the digital output signal

Switches the method of outputting audio signals when you connect a component such as an amplifier (receiver) or MD deck with a digital input jack.
For connection details, see page 21.
Select “DOLBY DIGITAL,” “MPEG” and “DTS” after setting “DIGITAL OUT” to “ON.”



If you connect a component that does not conform to the selected audio signal, a loud noise (or no sound) will come out from the speakers, affecting your ears or causing the speakers to be damaged.

◆ DOLBY DIGITAL (DVD only)

Selects the type of Dolby Digital signal.

D-PCM	Select this when the player is connected to an audio component lacking a built-in Dolby Digital decoder. You can select whether the signals conform to Dolby Surround (Pro Logic) or not by making adjustments to the “DOWNMIX” item in “AUDIO SETUP” (page 67).
DOLBY DIGITAL	Select this when the player is connected to an audio component with a built-in Dolby Digital decoder.

→ continued

◆ MPEG (DVD only)

Selects the type of MPEG audio signal.

PCM	Select this 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) jack.
MPEG	Select this when the player is connected to an audio component with a built-in MPEG decoder.

◆ DTS (DVD only)

Selects whether or not to output DTS signal.

OFF	Select this when the player is connected to an audio component lacking a built-in DTS decoder.
ON	Select this when the player is connected to an audio component with a built-in DTS decoder.

Note

When you use the DIGITAL OUT (OPTICAL) jack to listen to MPEG audio signals and set “MPEG” to “MPEG” in “AUDIO SETUP,” no sound will come from your speakers if you select one of the TVS modes.

Troubleshooting

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

Power

The power is not turned on.

➡ Check that the AC power cord is connected securely.

Picture

There is no picture/picture noise appears.

➡ Re-connect the connecting cord securely.
➡ The connecting cord is damaged.
➡ Check the connection to your TV (page 18) and switch the input selector on your TV so that the signal from the player appears on the TV screen.
➡ The disc is dirty or flawed.
➡ If the picture output from your player goes through your VCR to get to your TV or if your player is connected to a combination TV/VIDEO player, the copy-protection signal applied to some DVD programmes could affect picture quality. If you still experience problems even when you connect your player directly to your TV, please try connecting your player to your TV's S VIDEO input (page 18).
➡ (For Asian models only)
If the colour system of your player does not match with that of your TV, change the colour system of the player. For details, see page 15. (You cannot change the colour system of the DVD disc itself.)
➡ The picture on the screen becomes black and white when you play a disc recorded in a colour system that is different from your TV.

Even though you set the aspect ratio in "TV TYPE" of "SCREEN SETUP," the picture does not fill the screen.

➡ The aspect ratio of the disc is fixed on your DVD.

Sound

There is no sound.

➡ Re-connect the connecting cord securely.
➡ The connecting cord is damaged.
➡ The player is connected to the wrong input jack on the amplifier (receiver) (page 23, 24, 25).
➡ The amplifier (receiver) input is not correctly set.
➡ The player is in pause mode or in Slow-motion Play mode.
➡ The player is in fast forward or fast reverse mode.
➡ If the audio signal does not come through the DIGITAL OUT (OPTICAL) jack, check the audio settings (page 67).
➡ While playing a Super VCD on which the audio track 2 is not recorded, no sound will come out when you select "2:STEREO," "2:1/L" or "2:2/R."

Sound is noisy.

➡ When playing a CD with DTS sound tracks, noise will come from the AUDIO OUT L/R jacks or DIGITAL OUT (OPTICAL) jack (page 31).

Sound distortion occurs.

➡ Set "AUDIO ATT" in "AUDIO SETUP" to "ON" (page 66).

The sound volume is low.

➡ The sound volume is low on some DVDs. The sound volume may improve if you set "AUDIO DRC" to "TV MODE" (page 66).
➡ Set "AUDIO ATT" in "AUDIO SETUP" to "OFF" (page 66).

Operation

The remote does not function.

➡ There are obstacles between the remote and the player.
➡ The distance between the remote and the player is too far.
➡ The remote is not pointed at the remote sensor on the player.

→ *continued*

➡ The remote sensor of the player is exposed to strong light.
➡ The batteries in the remote are weak.

The disc does not play.

➡ There is no disc inside.
➡ The disc is turned over.
Insert the disc with the labeled (or non-playback) side facing the disc window.
➡ The player cannot play certain discs (page 7).
➡ The region code on the DVD does not match the player.
➡ Moisture has condensed inside the player (page 3).
➡ The player cannot play CD-Rs, CD-RWs, DVD-Rs, or DVD-RWs (video mode) that are not finalized (page 7).

"Data error" appears when you play a DATA CD.

➡ The MP3 audio track you want to play is broken.
➡ The data is not MPEG1 Audio Layer 3 data.

The MP3 audio track cannot be played (page 38).

➡ The DATA CD is not recorded in the MP3 format that conforms to ISO9660 Level 1/ Level 2 or Joliet.
➡ The MP3 audio track does not have the extension ".MP3."
➡ The data is not formatted in MP3 even though it has the extension ".MP3."
➡ The data is not MPEG1 Audio Layer 3 data.
➡ The player cannot play audio tracks in MP3PRO format.

The title of the MP3 audio album or track is not correctly displayed.

➡ The player can only display numbers and alphabet. Other characters are displayed as asterisks.

The disc does not start playing from the beginning.

➡ Programme Play, Shuffle Play, Repeat Play, or A-B Repeat Play has been selected (page 39).
➡ Resume play has taken effect (page 34).

The player starts playing the disc automatically.

➡ The disc features an auto playback function.
➡ "AUTO PLAY" in "CUSTOM SETUP" is set to "ON" (page 65).

Playback stops automatically.

➡ While playing discs with an auto pause signal, the player stops playback at the auto pause signal.

You cannot perform some functions such as Stop, Search, Slow-motion Play, Repeat Play, Shuffle Play, or Programme Play.

➡ Depending on the disc, you may not be able to do some of the operations above. See the operating manual that comes with the disc.

The language for the sound track cannot be changed.

➡ Try using the DVD's menu instead of the direct selection button on the remote (page 35).
➡ Multilingual tracks are not recorded on the DVD being played.
➡ The DVD prohibits changing of the language for the sound track.

The subtitle language cannot be changed or turned off.

➡ Try using the DVD's menu instead of the direct selection button on the remote (page 35).
➡ Multilingual subtitles are not recorded on the DVD being played.
➡ The DVD prohibits changing of the subtitles.

The angles cannot be changed.

➡ Try using the DVD's menu instead of the direct selection button on the remote (page 35).
➡ Multi-angles are not recorded on the DVD being played.
➡ The angle can only be changed when the indicator lights up in blue on the Control Bar (page 51).
➡ The DVD prohibits changing of the angles.

The player does not operate properly.

➡ When static electricity, etc., causes the player to operate abnormally, unplug the player.

Five numbers or letters are displayed on the screen.

➡ The self-diagnosis function was activated. (See the table on page 71.)

The disc does not eject and "Locked" appears on the TV screen.

➡ Child Lock is set (page 33).

The disc does not enter or eject.

➡ Moisture has condensed inside the player (page 3).

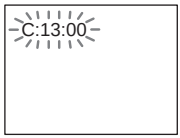
➡ The disc is non-standard shaped (page 3).

➡ The disc does not enter if there is an another disc inside.

Self-diagnosis Function

(When letters/numbers appear in the display)

When the self-diagnosis function is activated to prevent the player from malfunctioning, a five-character service number (e.g., C 13 00) with a combination of a letter and four digits appears on the screen. In this case, check the following table.



First three characters of the service number	Cause and/or corrective action
C 13	The disc is dirty. ➡ Clean the disc with a soft cloth (page 8).
C 31	The disc is not inserted correctly. ➡ Re-insert the disc correctly.
E XX (xx is a number)	To prevent a malfunction, the player has performed the self-diagnosis function. ➡ Contact your nearest Sony dealer or local authorized Sony service facility and give the 5-character service number. Example: E 61 10

Glossary

Chapter (page 45)
Sections of a picture or a music feature that are smaller than titles. A title is composed of several chapters. Depending on the disc, no chapters may be recorded.

Dolby Digital (page 25, 67)
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 are recorded discretely and little deterioration is realized because all channel data processing is digital.

Dolby Surround (Pro Logic) (page 24, 67)
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, centre and rear signals. The rear channel is monaural.

DTS (page 25, 68)
Digital audio compression technology that Digital Theater Systems, Inc. developed. This technology conforms to 5.1-channel surround sound. 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 little deterioration is realized because all channel data processing is digital.

DVD (page 7)
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 double-layer and single-sided DVD is 8.5 GB, a single-layer and double-sided DVD is 9.4 GB, and double-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 (average) 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 information is recorded in a multi-channel format, such as Dolby Digital, 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.

Index (CD)/Video Index (VIDEO CD) (page 45)
A number that divides a track into sections to easily locate the point you want on a CD or VIDEO CD. Depending on the disc, no index may be recorded.

MPEG audio (page 25, 68)
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.

Scene (page 45)
On a VIDEO CD with PBC (playback control) functions, the menu screens, moving pictures and still pictures are divided into sections called “scenes.”

Title (page 45)
The longest section of a picture or music feature on a DVD, movie, etc., in video software, or the entire album in audio software.

Track (page 45)
Sections of a picture or a music feature on a CD or VIDEO CD (the length of a song).

Specifications

System

Laser: Semiconductor laser
Signal format system: PAL/NTSC

Audio characteristics

Frequency response: DVD VIDEO (PCM 96 kHz): 2 Hz to 44 kHz (±1.0 dB)/DVD VIDEO (PCM 48 kHz): 2 Hz to 22 kHz (±0.5 dB)/CD: 2 Hz to 20 kHz (±0.5 dB)
Signal-to-noise ratio (S/N ratio): 115 dB (AUDIO OUT L/R jacks only)
Harmonic distortion: 0.003 %
Dynamic range: DVD VIDEO: 103 dB/CD: 99 dB
Wow and flutter: Less than detected value (±0.001% W PEAK)

When you play PCM sound tracks with a 96 kHz sampling frequency, the output signals from the DIGITAL OUT (OPTICAL) jack are converted to 48 kHz sampling frequency.

Outputs

(**Jack name:** Jack type/Output level/Load impedance)
AUDIO OUT L/R: Phono jack/2 Vrms/10 kilohms
DIGITAL OUT (OPTICAL): Optical output jack/-18 dBm (wave length: 660 nm)
COMPONENT VIDEO OUT (Y, C_B, C_R): Phono jack/Y: 1.0 Vp-p/C_B, C_R: 0.7 Vp-p/75 ohms
VIDEO OUT: Phono jack/1.0 Vp-p/75 ohms
S VIDEO OUT: 4-pin mini DIN/Y: 1.0 Vp-p/C: 0.3 Vp-p (PAL), 0.286 Vp-p (NTSC)/75 ohms

General

Power requirements: 220 to 240 V AC, 50/60 Hz
Power consumption: 9 W
Dimensions (approx.): 196 × 61 × 265 mm (width/height/depth) incl. projecting parts
Mass (approx.): 1.8 kg
Operating temperature: 5 °C to 35 °C
Operating humidity: 25 % to 80 %

Supplied accessories

See page 14.

Specifications and design are subject to change without notice.

Language Code List

For details, see pages 48, 51, 63.
The language spellings conform to the ISO 639: 1988 (E/F) standard.

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

Index

Numerics

16:9 64
4:3 LETTER BOX 64
4:3 PAN SCAN 64
5.1 Channel Surround 21

A

A-B REPEAT 43
ALBUM 45
Album 37
ANGLE 51
AUDIO 48, 63
AUDIO ATT 66
AUDIO DRC 66
AUDIO SETUP 66
Audio signal format 49
AUTO PLAY 65
AUTO POWER OFF 65

B

BACKGROUND 65
Batteries 14
BNR 52

C

CD 31
CHAPTER 45
Chapter 72
Child Lock 33
COLOR SYSTEM 64
Connecting 18
Continuous play
  CD/VIDEO CD 31
  DATA CD 37
  DVD 31
Control Bar 12
CUSTOM 62
CUSTOM PARENTAL CONTROL 56
CUSTOM PICTURE MODE 53
CUSTOM SETUP 65

D

DATA CD 7, 37
DIGITAL OUT 67
Digital output 67
DIGITAL VIDEO ENHANCER 54
DIMMER 65
Display
  Control Bar display 12
  Setup Display 62
DOLBY DIGITAL 24, 25, 48, 67, 72
DOWNMIX 67
DTS 25, 48, 68, 72
DVD 7, 31, 72
DVD/CD text 46

F

Fast forward 33
Fast reverse 33

H

Handling discs 8
Hooking up 17

I

INDEX 45
Index 72

J

Jack cover
  Attaching 26
  Removing 10

L

LANGUAGE SETUP 63
Locating
  a specific point by watching the TV screen 33

M

MENU 63
Menu
  DVD's menu 35
  Top menu 35
MP3 7, 37, 46
MPEG 25, 48, 68, 72
MULTI-DISC RESUME 34, 66

N

NUMBER INPUT 45

O

On-screen display
  Control Bar display 12
  Setup Display 62
OSD 63

P

PARENTAL CONTROL 57
PAUSE MODE 66
PBC Playback 36
PRO LOGIC 24, 72
PROGRAM 39
Programme Play 39

Q

QUICK 63
Quick Setup 28, 63

R

Remote 14, 60
REPEAT 42
Repeat Play 42
REPLAY 32
RESET 63
Resume Play 34

S

S VIDEO output 18
SCENE 45
Scene 72
SCREEN SAVER 65
SCREEN SETUP 64
Searching 33
SETUP 62
Setup Display 62
SHUFFLE 41
Shuffle Play 41
Slow-motion Play 33
Speakers
  Hooking up 21
Stand 26
SUBTITLE 51, 63
SURROUND 49

T

TIME/TEXT 45, 46
TITLE 45
Title 72
TOP MENU 35
TRACK 45
Track 37, 72
TRACK SELECTION 66
Troubleshooting 69
TV TYPE 64
TVS (TV Visual Surround) 49

U

Usable discs 7

V

VIDEO CD 7, 31

W

Wall installation 27

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