CD/DVD Player

Operating Instructions

DVD
VIDEO

COMPACT
disc
DIGITAL VIDEO

DVP-NS765P

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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.**

```
CLASS 1 LASER PRODUCT
LASER KLASSE 1
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT
```
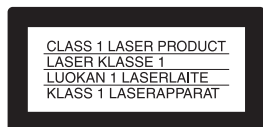
This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

CAUTION

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

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 5AMP fuse approved by ASTA or BSI to BS1362, (i.e., marked with ⑳ or ⑦ 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
- Do not install the unit in an inclined position. It is designed to be operated in a horizontal position only.

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
- 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 on a soft surface such as a rug.
- Do not place the player in a location near heat sources, or in a place subject to direct sunlight, excessive dust, or mechanical shock.

On operation
- If the player is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lenses inside the player. Should this occur, the player may not operate properly. In this case, remove the disc and leave the player turned on for about half an hour until the moisture evaporates.
- When you move the player, take out any discs. If you don't, the disc may be damaged.

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

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

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. Plasma display panel televisions and projection televisions are susceptible to this.

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

Table of Contents

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.
- "DVD" may be used as a general term for DVD VIDEOs, DVD+RWs/DVD+Rs and DVD-RWs/DVD-Rs.
- The meaning of the icons used in this manual is described below:

Icons	Meanings
DVD-V	Functions available for DVD VIDEOs and DVD+RWs/DVD+Rs or DVD-RWs/DVD-Rs in video mode
DVD-RW	Functions available for DVD-RWs in VR (Video Recording) mode
VCD	Functions available for VIDEO CDs (including Super VCDs or CD-Rs/CD-RWs in video CD format or Super VCD format)
CD	Functions available for music CDs or CD-Rs/CD-RWs in music CD format
DATA CD	Functions available for DATA CDs (CD-ROMs/CD-Rs/CD-RWs containing MP3*1 audio tracks, JPEG image files, and DivX video files)
DATA DVD	Functions available for DATA DVDs (DVD-Rs/DVD-RWs/DVD+Rs/DVD+RWs) containing DivX*2*3 video files.

*1 MP3 (MPEG1 Audio Layer 3) is a standard format defined by ISO (International Organization for Standardization)/MPEG which compresses audio data.
*2 DivX® is a video file compression technology, developed by DivXNetworks, Inc.
*3 DivX, DivX Certified, and associated logos are trademarks of DivXNetworks, Inc. and are used under license.

This Player Can Play the Following Discs

Format of discs	
DVD VIDEO (page 81)	DVD VIDEO
DVD-RW (page 81)	DVD RW
VIDEO CD	COMPACT disc DIGITAL VIDEO
Music CD	COMPACT disc DIGITAL AUDIO

"DVD VIDEO" and "DVD-RW" are trademarks.

Note about CDs/DVDs

The player can play CD-ROMs/CD-Rs/CD-RWs recorded in the following formats:
– music CD format
– video CD format
– MP3 audio tracks, JPEG image files, and DivX video files of format conforming to ISO 9660* Level 1/Level 2, or its extended format, Joliet
– KODAK Picture CD format
* A logical format of files and folders on CD-ROMs, defined by ISO (International Organization for Standardization).

The player can play DVD-ROMs/DVD+RWs/DVD-RWs/DVD+Rs/DVD-Rs recorded in the following formats:
– DivX video files of format conforming to UDF.

Example of discs that the player cannot play

The player cannot play the following discs:
- CD-ROMs/CD-Rs/CD-RWs other than those recorded in the formats listed on the previous page.
- CD-ROMs recorded in PHOTO CD format.
- Data part of CD-Extras.
- DVD Audios.
- DVD-Rs/DVD-RWs/DVD+Rs/DVD+RWs that do not contain any DivX video files.

Also, the player cannot play the following discs:
- A DVD VIDEO 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.

Region code

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

DVD VIDEOs labelled ⊕ will also play on this player.

If you try to play any other DVD VIDEO, the message "Playback prohibited by area limitations." will appear on the TV screen. Depending on the DVD VIDEO, there may be no region code indication, even though playing the DVD VIDEO is prohibited by area restrictions.

Region code

Notes

- **Notes about DVD+RWs/DVD+Rs, DVD-RWs/ DVD-Rs or CD-Rs/CD-RWs**
  Some DVD+RWs/DVD+Rs, DVD-RWs/DVD-Rs, or CD-Rs/CD-RWs cannot be played on this player due to the recording quality or physical condition of the disc, or the characteristics of the recording device and authoring software.
  The disc will not play if it has not been correctly finalized. For more information, refer to the operating instructions for the recording device. Note that some playback functions may not work with some DVD+RWs/DVD+Rs, even if they have been correctly finalized. In this case, view the disc by normal playback. Also some DATA CDs/DATA DVDs created in Packet Write format cannot be played.
- **Music discs encoded with copyright protection technologies**
  This product is designed to playback discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

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 U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. 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 playing, store the disc in its case.
- 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.
- If you have printed the disc's label, dry the label before playing.

Index to Parts and Controls

For more information, see the pages indicated in parentheses.

Front panel
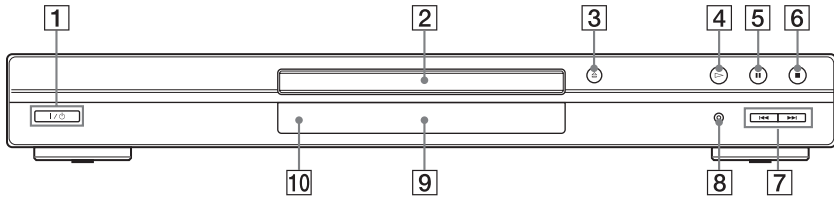
1 I/⏻ (on/standby) button (29)

2 Disc tray (29)

3 ⏏ (open/close) button (29)

4 ▷ (play) button (29)

5 II (pause) button (30)

6 ■ (stop) button (30)

7 I◀◀ /▶▶I (previous/next) buttons (39)

8 PROGRESSIVE (progressive) button/
indicator (19)
Lights up when the player outputs
progressive signals.

9 Front panel display (10)

10 ⬛ (remote sensor) (16)

Front panel display

When playing back a DVD VIDEO/DVD-RW

Disc type   Playing status   Lights up when you can change the angle (50)

DVD ►❚❚
⟲1 📷
⃞⃞D   dts

T I:22:30

Lights up during
Repeat Play (36)

Current audio signal (47)

Current title/chapter or playing
time (43)
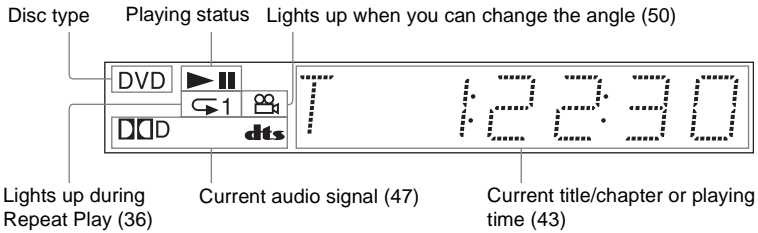
When playing back a VIDEO CD with Playback Control (PBC) (33)

Disc type   Playing status

V CD ►❚❚
⟲

29:07

Lights up during A-B Repeat Play (37)

Current scene or playing time (43)
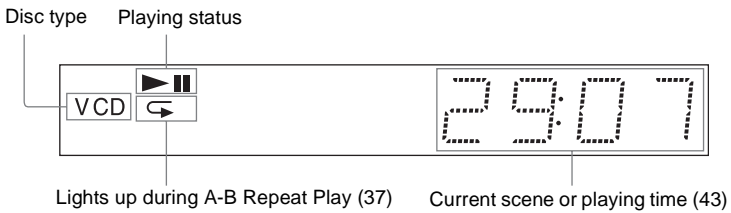
When playing back a CD, DATA DVD (DivX video), DATA CD (MP3 audio/DivX video), or VIDEO CD (without PBC)

Playing status

Lights up during
Repeat Play (36)

Current track* (43)

►❚❚ TRK
CD ⟲1
MP3

14

2:25

Disc type

Lights up when playing MP3 audio tracks (54)

Playing time (43)
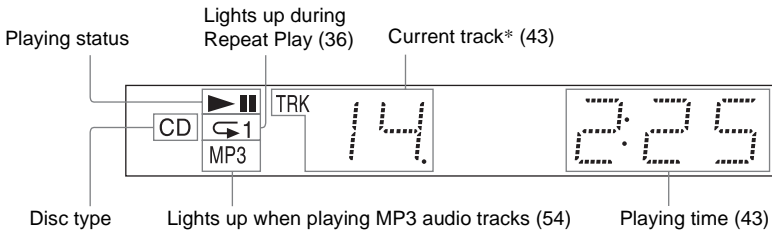
* When playing DivX video files, the current track is not displayed.

ῷ Hint
You can adjust the lighting of the front panel
display by setting "DIMMER" in "CUSTOM
SETUP." (page 74)

Rear panel
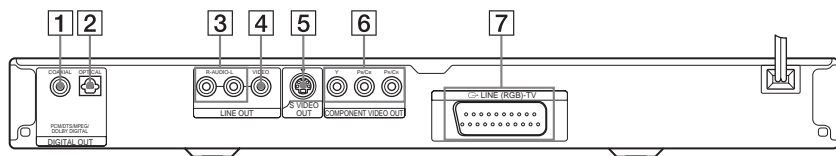
1. DIGITAL OUT (COAXIAL) (digital out, coaxial) jack (23) (24) (25)

2. DIGITAL OUT (OPTICAL) (digital out, optical) jack (23) (24) (25)

3. LINE OUT L/R (AUDIO) (line out L/R, audio) jacks (22) (23) (24)

4. LINE OUT (VIDEO) (line out, video) jack (17)

5. S VIDEO OUT (s video out) jack (17)

6. COMPONENT VIDEO OUT (Y, P_B/C_B, P_R/C_R) (component video out, Y, P_B/C_B, P_R/C_R) jacks (17)

7. LINE (RGB) - TV (line, RGB-TV) jack (17) (26)

Remote
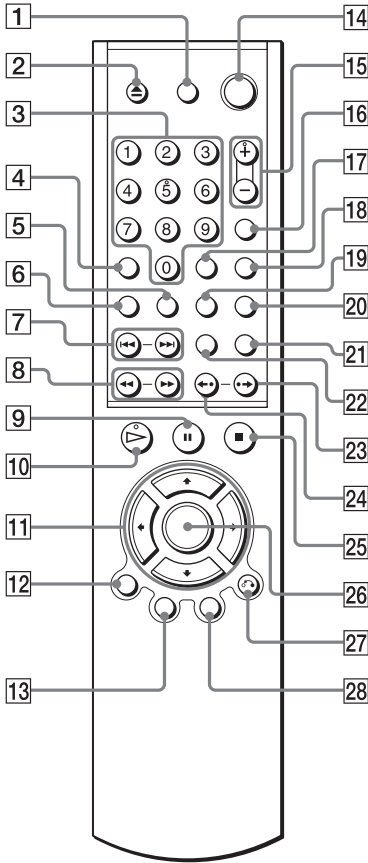
1 TV $\mathbf{I}/\circlearrowleft$ (on/standby) button (69)

2 ▲ (open/close) button (30)

3 Number buttons (32)

The number 5 button has a tactile dot.*

4 CLEAR (clear) button (34)

5 ⌑ (subtitle) button (50)

6 ◯◯ (audio) button (46)

7 |◀◀/▶▶| (previous/next) buttons (30)

8 ◀| ◀◀/▶▶ |▶ (scan/slow) buttons (40)

9 ∥ (pause) button (30)

10 ▷ (play) button (29)
The ▷ button has a tactile dot.*

11 ←/↑/↓/→ buttons (32)

12 DISPLAY (display) button (13)

13 TOP MENU (top menu) button (32)

14 $\mathbf{I}/\circlearrowleft$ (on/standby) button (29)

15 ◿ (volume) +/– buttons (69)
The + button has a tactile dot.*

16 ⊸ (TV/video) button (69)

17 TIME/TEXT (time/text) button (43)

18 PICTURE MODE (picture mode) button (51)

19 ◯◯ (angle) button (50)

20 SUR (surround) button (48)

21 PICTURE NAVI (picture navigation) button (42, 57)

22 ZOOM (zoom) button (30, 57)

23 •➜/∥▶ (instant advance/step) button (30, 40)

24 ◀•/◀∥ (instant replay/step) button (30, 40)

25 ■ (stop) button (30)

26 ENTER (enter) button (27)

27 ♂ RETURN (return) button (30)

28 MENU (menu) button (32) (55)

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

Guide to the Control Menu Display (Magic Pad)

Use the Control Menu to select a function and to view related information. Press DISPLAY repeatedly to turn on or change the Control Menu display as follows:

Control Menu display 1

↓

Control Menu display 2 (Only for DATA CDs without DivX video files)

↓

Control Menu display off
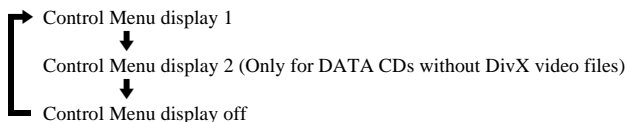
Control Menu display

The Control Menu display 1 and 2 will show different items depending on the disc type. For details about each item, see the pages in parentheses.

Example: Control Menu display 1 when playing a DVD VIDEO.

Currently playing chapter number*[2]

Currently playing title number*[1]

Total number of titles*[1]

Total number of chapters*[2]

Playback status (► Playback, ‖ Pause, ■ Stop, etc.)

Control Menu items

Type of disc being played*[3]

Selected item

DVD VIDEO

Playing time*[4]

Current setting

Options

Function name of selected Control Menu item

Operation message

```
1 2 ( 2 7 )
1 8 ( 3 4 )          ►
T    1 : 3 2 : 5 5         DVD VIDEO
OFF
OFF
SET →
ON

PROGRAM
◄ ▲ ▼ ► → ENTER    Quit: DISPLAY
```

*1 Displays the scene number for VIDEO CDs (PBC is on), track number for VIDEO CDs/CDs, album number for DATA DVDs/DATA CDs.
*2 Displays the index number for VIDEO CDs, MP3 audio track number or JPEG image file number for DATA CDs. DivX video file number for DATA DVDs.
*3 Displays Super VCD as "SVCD."
*4 Displays the date for JPEG files.

To turn off the display
Press DISPLAY.

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List of Control Menu items

Item	Item Name, Function, Relevant Disc Type
	TITLE (page 40)/SCENE (page 40)/TRACK (page 40) Selects the title, scene, or track to be played. `DVD-V` `DVD-RW` `VCD`
	CHAPTER (page 40)/INDEX (page 40) Selects the chapter or index to be played. `DVD-V` `DVD-RW` `VCD`
*	**TRACK (page 40)** Selects the track to be played. `CD` `DATA CD`
	ORIGINAL/PLAY LIST (page 32) Selects the type of titles (DVD-RW) to be played, the ORIGINAL one, or an edited PLAY LIST. `DVD-RW`
	TIME/TEXT (page 40) Checks the elapsed time and the remaining playback time. Input the time code for picture and music searching. Displays the DVD/CD text, or the DATA DVD/DATA CD's track/file name. `DVD-V` `DVD-RW` `VCD` `CD` `DATA CD` `DATA DVD`
	PROGRAM (page 34) Selects the title, chapter, or track to play in the order you want. `DVD-V` `VCD` `CD`
	SHUFFLE (page 35) Plays the title, chapter, or track in random order. `DVD-V` `VCD` `CD`
	REPEAT (page 36) Plays the entire disc (all titles/all tracks/all albums) repeatedly or one title/chapter/track/album/file repeatedly. `DVD-V` `DVD-RW` `VCD` `CD` `DATA CD` `DATA DVD`
	A-B REPEAT (page 37) Specifies the parts you want to play repeatedly. `DVD-V` `DVD-RW` `VCD` `CD`
	SHARPNESS (page 53) Exaggerates the outline of the image to produce a sharper picture. `DVD-V` `DVD-RW` `VCD` `DATA CD` `DATA DVD`
	PARENTAL CONTROL (page 65) Set to prohibit playback on this player. `DVD-V` `VCD` `CD`
	SETUP (page 71) QUICK Setup (page 26) Use Quick Setup to choose the desired language of the on-screen display, the aspect ratio of the TV, and the audio output signal. CUSTOM Setup In addition to the Quick Setup setting, you can adjust various other settings. RESET Returns the settings in "SETUP" to the default setting. `DVD-V` `DVD-RW` `VCD` `CD` `DATA CD` `DATA DVD`
	ALBUM (page 40) Selects the album to be played. `DATA CD` `DATA DVD`
	FILE (page 40) Selects the JPEG image file or DivX video file to be played. `DATA CD` `DATA DVD`
*	**DATE (page 57)** Displays the date the picture was taken by a digital camera. `DATA CD`
*	**INTERVAL (page 60)** Specifies the duration for which the slides are displayed on the screen. `DATA CD`
*	**EFFECT (page 60)** Selects the effects to be used for changing slides during a slide show. `DATA CD`

*	**MODE (MP3, JPEG) (page 57)** Selects the data type; MP3 audio track (AUDIO), JPEG image file (IMAGE) or both (AUTO) to be played when playing a DATA CD. **DATA CD**	

* These items are not displayed when playing a DATA CD with DivX video file.

ᄬ Hint

The Control Menu icon indicator lights up in green
 → when you select any item
except "OFF." ("PROGRAM," "SHUFFLE,"
"REPEAT," "A-B REPEAT," "SHARPNESS"
only). The "ORIGINAL/PLAY LIST" indicator
lights up in green when you select "PLAY LIST"
(default setting).
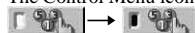
Hooking Up the Player

Follow steps 1 to 6 to hook up and adjust the settings of the player.

Notes

• Plug cords securely to prevent unwanted noise.
• Refer to the instructions supplied with the components to be connected.
• You cannot connect this player to a TV that does not have a SCART or video input jack.
• Be sure to disconnect the mains lead of each component before connecting.

Step 1: Unpacking

Check that you have the following items:
• Remote commander (remote) (1)
• R6 (size AA) batteries (2)

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 $\oplus$ and $\ominus$ ends on the batteries to the markings inside the compartment. When using the remote, point it at the remote sensor ▯ on the player.
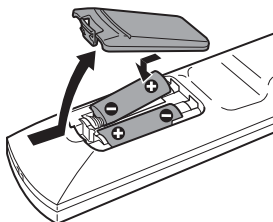
Notes

• 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: 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 ⒶA through ⒹD, according to the input jack on your TV monitor, projector, or AV amplifier (receiver).

In order to view progressive signal (525p or 625p) pictures with a compatible TV, projector, or monitor, you must use pattern Ⓐ.

Ⓒ

INPUT

VIDEO

L

AUDIO

R

TV, projector, or AV amplifier (receiver)

Audio/video cord (not supplied)

S VIDEO cord (not supplied)

Ⓓ

INPUT

S VIDEO

TV, projector, or AV amplifier (receiver)

(yellow)

to S VIDEO OUT

to LINE OUT (VIDEO)

to COMPONENT VIDEO OUT

CD/DVD player

(green)   (blue) (red)

to LINE (RGB)-TV

SCART cord (not supplied)

COMPONENT VIDEO IN

(green)   Y

(blue)   PB

(red)   PR

Ⓐ TV, projector, or AV amplifier (receiver)

Component video cord (not supplied)

Ⓑ

TV

⟹ : Signal flow

Notes

When connecting to a progressive TV, it is recommended that you use only pattern Ⓐ. If you connect to your TV using both Ⓐ and Ⓑ, a special control signal transmitted via the SCART cable may cause the signal to be switched to the SCART jack.

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❶ If you are connecting to a monitor, projector, or AV amplifier (receiver) having component video input jacks (Y, P$_B$/C$_B$, P$_R$/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 accepts progressive 525p/625p format signals, use this connection and press the PROGRESSIVE button on the front panel to output progressive signals. For details, see "Using the PROGRESSIVE button" (page 19).

Green   Green
Blue   Blue
Red   Red

❷ If you are connecting to a SCART input jack

Connect a SCART cord (not supplied). Be sure to make the connections firmly to avoid hum and noise. When you connect using the SCART cord, check that the TV conforms to S video or RGB signals. Refer to the operating instructions supplied with the TV to be connected. Also, when you set "LINE" to "S VIDEO" or "RGB" under "SCREEN SETUP" in the Setup Display (page 73), use a SCART cord that conforms to each signal.

With this connection, select "NORMAL (INTERLACE)" (default) by pressing the PROGRESSIVE button on the front panel.

❸ If you are connecting to a video input jack

Connect the yellow plug of an audio/video cord (not supplied) to the yellow (video) jack. You will enjoy standard quality images.

With this connection, select "NORMAL (INTERLACE)" (default) by pressing the PROGRESSIVE button on the front panel.

Yellow   Yellow
White (L)   White (L)
Red (R)   Red (R)
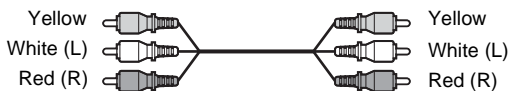
❹ If you are connecting to an S VIDEO input jack

Connect an S VIDEO cord (not supplied). You will enjoy high quality images.
With this connection, select "NORMAL (INTERLACE)" (default) by pressing the PROGRESSIVE button on the front panel.

When connecting to a wide screen TV
Depending on the disc, the image may not fit your TV screen. To change the aspect ratio, see page 73.

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Notes

- Do not connect a VCR, etc., between your TV and the player. If you pass the player signals via the VCR, you may not receive a clear image on the TV screen. If your TV has only one audio/video input jack, connect the player to this jack.

```
        ┌──────────┐
   ╳──→ │   VCR    │ ╳
   │    └──────────┘ │
   │                 ↓
┌──────────────┐  ┌──────┐
│ CD/DVD player│  │  TV  │
└──────────────┘  └──────┘
        │  Connect    ↑
        │  directly   │
        └─────────────┘
```
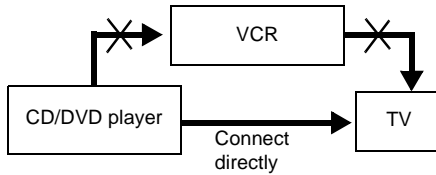
- Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of 525 or 625 progressive scan picture problems, it is recommended that the user switch the connection to the 'standard definition' output. If there are questions regarding your TV set compatibility with this 525p and 625p DVD player model, please contact our customer service centre.
- When you connect the player to your TV via the SCART jacks, the TV's input source is set to the player automatically when you start playback. In this case, press ⇥ (TV/video) on the remote to return the input to the TV.
- If you set "LINE" in SCREEN SETUP to "RGB" (page 26, 73), the player outputs no component video signals.

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, open the tray and remove the disc.

Using the PROGRESSIVE button

By using the PROGRESSIVE button on the front panel, you can select the signal format in which the player outputs video signals (Progressive or Interlace), and the conversion method for progressive signals. The PROGRESSIVE indicator lights up when the player outputs progressive signals.
Each time you press PROGRESSIVE, the display changes as follows:

PROGRESSIVE AUTO
↓
PROGRESSIVE VIDEO
↓
NORMAL (INTERLACE)

◆PROGRESSIVE AUTO
Select this setting when:
– your TV accepts progressive signals, and,
– the TV is connected to the COMPONENT VIDEO OUT jacks.
Normally select this under the above condition. This automatically detects the software type, and selects the appropriate conversion method.
Note that the picture will not be clear or no picture will appear if you select these settings when either of the above conditions is not met.

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◆**PROGRESSIVE VIDEO**

Select this setting when:

– your TV accepts progressive signals, and,

– the TV is connected to the COMPONENT VIDEO OUT jacks, and

– you want to fix the conversion method to PROGRESSIVE VIDEO for video-based software.

Select this if the image is not clear when you select PROGRESSIVE AUTO.

Note that the picture will not be clear or no picture will appear if you select these settings when either of the above conditions is not met.

◆**NORMAL (INTERLACE)**

Select this setting when:

– your TV does not accept progressive signals, or,

– your TV is connected to jacks other than the COMPONENT VIDEO OUT jacks (LINE OUT (VIDEO) or S VIDEO OUT).

◆**About DVD software types and the conversion method**

DVD software can be divided into two types: film-based software and video-based software. Video-based software is derived from TV, such as dramas and sit-coms, and displays images at 30 frames/60 fields per second. Film-based software is derived from film and displays images at 24 frames per second. Some DVD software contains both video and film.

In order for these images to appear natural on your screen when output in progressive format, the progressive signals need to be converted to match the type of DVD software that you are watching.

Notes
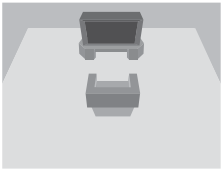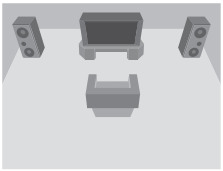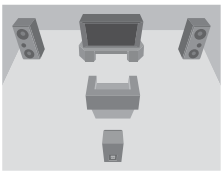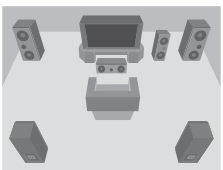
• When you play video-based software in progressive signal format, sections of some types of images may appear unnatural due to the conversion process when output through the COMPONENT VIDEO OUT jacks. Images from the S VIDEO OUT and LINE OUT (VIDEO) jacks are unaffected as they are output in the normal (interlace) format.

• If you set "LINE" in "SCREEN SETUP" to "RGB," then the player switches to "NORMAL (INTERLACE)." This will happen even though you select "PROGRESSIVE AUTO" or "PROGRESSIVE VIDEO."

Step 4: 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 (example)
TV • Surround effects: – TVS DYNAMIC (page 48) – TVS WIDE (page 48)	**A** (page 22)	
Stereo amplifier (receiver) and two speakers • Surround effects: – TVS STANDARD (page 48) or **MD deck/DAT deck** • Surround effects: – TVS STANDARD (page 48)	**B** (page 23)	
AV amplifier (receiver) having a Dolby[1] **Surround (Pro Logic) decoder and 3 to 6 speakers** • Surround effects: – Dolby Surround (Pro Logic) (page 81)	**C** (page 24)	
AV amplifier (receiver) with digital input jacks having a Dolby Digital, DTS[2]**, or MPEG audio decoder and 6 speakers** • Surround effects: – Dolby Digital (5.1 ch) (page 81) – DTS (page 81) – MPEG (5.1ch) (page 81)	**D** (page 25)	

☼ Hint

If you connect an AV amplifier (receiver) that conforms to the 96 kHz sampling frequency, use connection **D**.

[1] Manufactured under license from Dolby Laboratories. "Dolby," "Pro Logic," and the double-D symbol are trademarks of Dolby Laboratories.
[2] "DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

Hookups

21

A Connecting to your TV

This connection will use your TV's speakers for sound. If you use the SCART cord in pattern
B of "Step 3: Connecting the Video Cords" (page 17), you do not have to connect audio cords
to your TV.

⟶: Signal flow
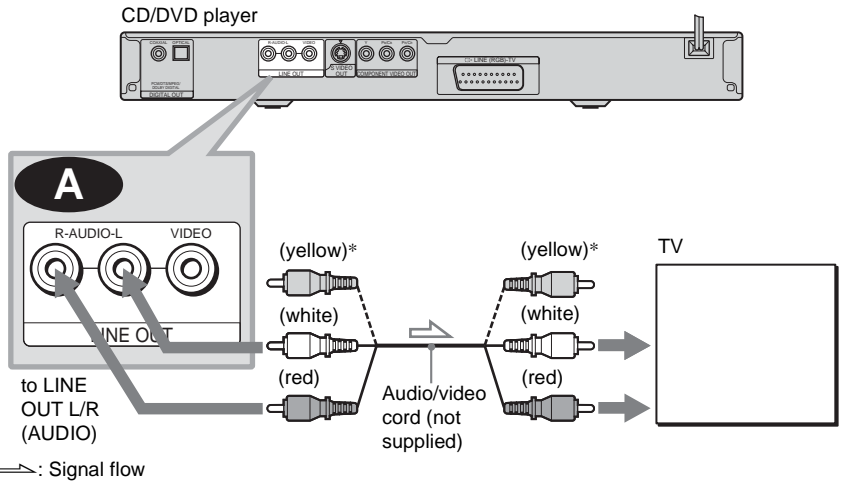
* The yellow plug is used for video signals (page
  17).

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

22

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).

CD/DVD player

B-2

COAXIAL   OPTICAL

PCM/DTS/MPEG/
DOLBY DIGITAL

DIGITAL OUT

to DIGITAL OUT
(COAXIAL or OPTICAL)

Optical digital cord
(not supplied)
Remove jack cap
before connecting

Coaxial digital cord
(not supplied)

or   or

B-1

R-AUDIO-L   VIDEO

(red)

(white)

LINE OUT

to LINE OUT L/R (AUDIO)

Stereo audio cord
(not supplied)

(white)   (red)

to coaxial or optical digital input   to audio input

[Speakers]   Stereo amplifier (receiver)

Front (L)

Front (R)   MD deck/DAT deck

⟶: Signal flow

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

You can enjoy 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**.

CD/DVD player

C-2

COAXIAL   OPTICAL

PCM/DTS/MPEG/
DOLBY DIGITAL

DIGITAL OUT

to DIGITAL OUT
(COAXIAL or OPTICAL)

Optical digital cord
(not supplied)
Remove jack cap
before connecting

Coaxial digital cord
(not supplied)

C-1

(red)

(white)

R-AUDIO-L   VIDEO

LINE OUT

to LINE OUT L/R (AUDIO)

Stereo audio cord
(not supplied)

(white)   (red)

to coaxial or optical digital input

to audio input

[Speakers]

[Speakers]

Amplifier (receiver) with Dolby
Surround decoder

Rear (L)   Rear (R)

Subwoofer   Centre

Rear (mono)

Front (L)   Front (R)

⟹: Signal flow

Note

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

24

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

This connection will allow you to use the Dolby Digital, MPEG audio or DTS decoder function of your AV amplifier (receiver).

CD/DVD player

to DIGITAL OUT
(COAXIAL or OPTICAL)

or

Coaxial digital cord
(not supplied)

Optical digital cord
(not supplied)
Remove jack cap
before connecting

to optical digital input

to coaxial digital input

[Speakers]   AV amplifier (receiver) having   [Speakers]
a decoder

Rear (L)   Subwoofer   Front (L)   Centre

Rear (R)   Front (R)

: Signal flow
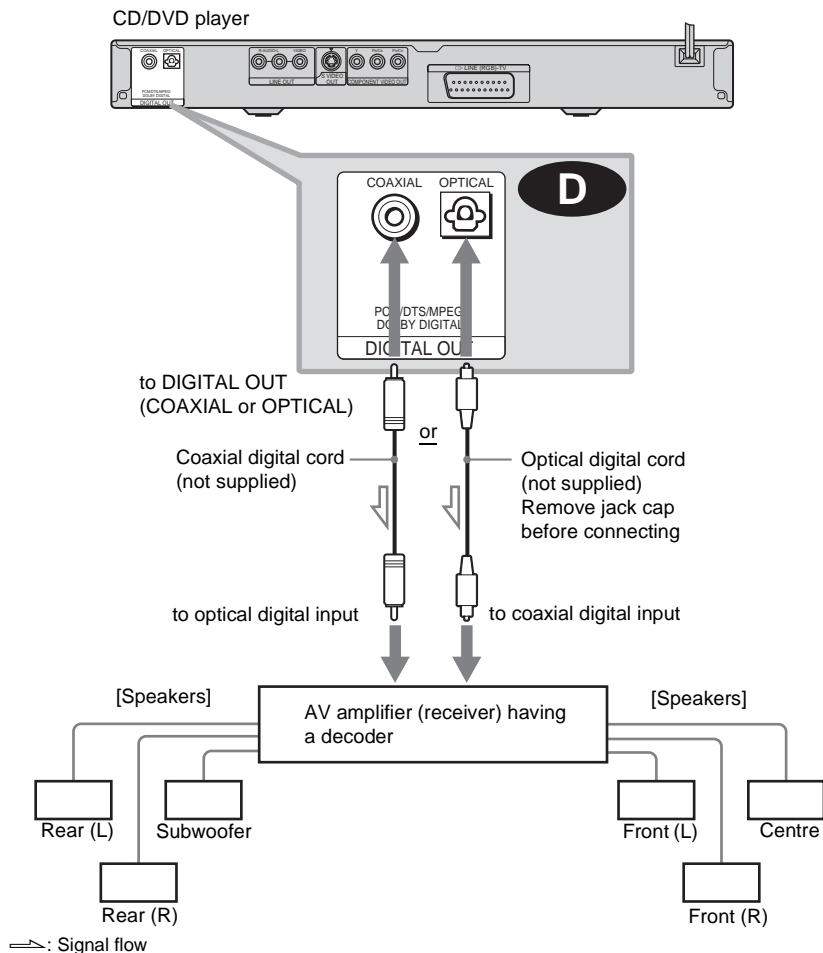
Hint
Use connection **D** when connecting to 7 or more speakers (6.1 ch or more).

Notes
- After you have completed the connection, be sure to set "DOLBY DIGITAL" to "DOLBY DIGITAL" and "DTS" to "ON" in Quick Setup (page 26). If your AV amplifier (receiver) has an MPEG audio decoder function, set "MPEG" to "MPEG" (page 77). Otherwise, no sound or a loud noise will come from the speakers.

- In order to listen to DTS sound tracks, you must use this connection. DTS sound tracks are not output through the LINE OUT L/R (AUDIO) jacks, even if you set "DTS" to "ON" in Quick Setup (page 26).
- When you connect an amplifier (receiver) that conforms to the 96 kHz sampling frequency, set "48kHz/96kHz PCM" in "AUDIO SETUP" to "96kHz/24bit" (page 77).

25

Step 5: Connecting the Mains Lead

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

Step 6: Quick Setup

Follow the steps below to make the minimum number of basic adjustments for using the player.
To skip an adjustment, press ▶▶|. To return to the previous adjustment, press |◀◀.
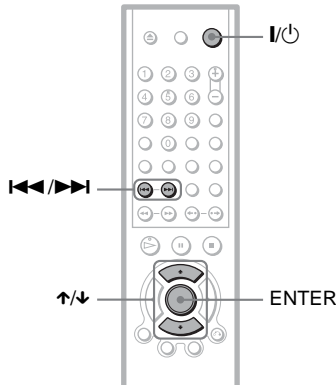
1 Turn on the TV.

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" (press enter to run Quick Setup) appears at the bottom of the screen. If this message does not appear, select "QUICK" (quick) under "SETUP" (setup) in the Control Menu to run Quick Setup (page 72).

4 Press ENTER without inserting a disc.

The Setup Display for selecting the language used in the on-screen display appears.

```
LANGUAGE SETUP
OSD:              ENGLISH
MENU:
AUDIO:            ENGLISH
SUBTITLE:         FRANÇAIS
                  DEUTSCH
                  ITALIANO
                  ESPAÑOL
               NEDERLANDS
                   DANSK
                  SVENSKA
                     ▼
```
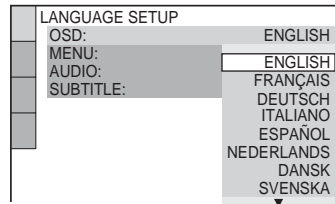
5 Press ↑/↓ to select a language.

The player displays the menu and subtitles in the selected language.

6 Press ENTER.

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

```
SCREEN SETUP
TV TYPE:                        16:9
SCREEN SAVER:                   16:9
BACKGROUND:            4:3 LETTER BOX
LINE:                   4:3 PAN SCAN
4:3 OUTPUT:                     FULL
```

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 73)

◆ If you have a 4:3 standard TV
• 4:3 LETTER BOX or 4:3 PAN SCAN (page 73)

8 Press ENTER.

The Setup Display for selecting the type of video signal output from the LINE (RGB)-TV jack appears.

```
SCREEN SETUP
TV TYPE:                        16:9
SCREEN SAVER:                     ON
BACKGROUND:           JACKET PICTURE
LINE:                          VIDEO
4:3 OUTPUT:                    VIDEO
                             S VIDEO
                                 RGB
```
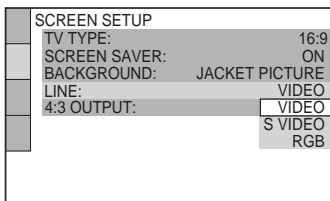
9 Press ↑/↓ to select the type of signal you want to output from the LINE (RGB)-TV jack.

◆ Video signals
• VIDEO (page 73)

◆ S video signals
• S VIDEO (page 73)

◆ RGB signals
• RGB (page 73)
When you select "RGB," you will be unable to use the PROGRESSIVE button, and the player will not output video signals from the COMPONENT VIDEO OUT jacks.

10 Press ENTER.

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

```
Is this player connected to an amplifier
(receiver) ? Select the type of jack you
are using.
   YES
        LINE OUTPUT L/R (AUDIO)
        DIGITAL OUTPUT
   NO
```
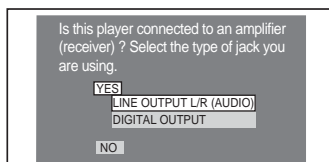
11 Press ↑/↓ to select the type of jack (if any) you are using to connect to an amplifier (receiver), then press ENTER.

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 "LINE OUTPUT L/R (AUDIO)." Quick Setup is finished and connections are complete.

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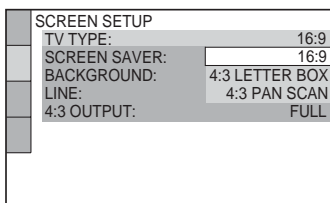• Select "DIGITAL OUTPUT." The Setup Display for "DOLBY DIGITAL" appears.

12 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**).

```
AUDIO SETUP
AUDIO ATT:                       OFF
AUDIO DRC:                  STANDARD
AUDIO FILTER:                  SHARP
DOWNMIX:             DOLBY SURROUND
DIGITAL OUT:                      ON
  DOLBY DIGITAL:               D-PCM
  MPEG:                        D-PCM
  DTS:                 DOLBY DIGITAL
  48kHz/96kHz PCM:       48kHz/16bit
```
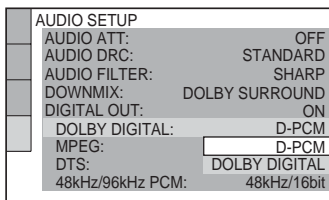
B-2 **C-2**
• D-PCM (page 76)

D
• DOLBY DIGITAL (only if the amplifier (receiver) has a Dolby Digital decoder) (page 76)

13Press ENTER.

"DTS" is selected.

```
AUDIO SETUP
AUDIO ATT:              OFF
AUDIO DRC:         STANDARD
AUDIO FILTER:         SHARP
DOWNMIX:     DOLBY SURROUND
DIGITAL OUT:            ON
  DOLBY DIGITAL:       OFF
  MPEG:                ON
  DTS:                OFF
  48kHz/96kHz PCM:  48kHz/16bit
```
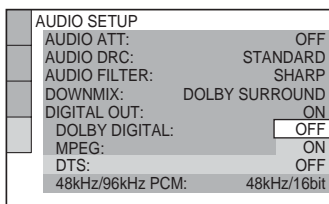
14Press ↑/↓ to select whether or not you wish to send a DTS signal to your amplifier (receiver).

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

B-2 **C-2**
• OFF (page 77)

D
• ON (only if the amplifier (receiver) has a DTS decoder) (page 77)

15Press ENTER.

Quick Setup is finished. All connections and setup operations are complete.
If your AV amplifier (receiver) has an MPEG audio decoder, set "MPEG" to "MPEG" (page 77).

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. See page 71 for using the Setup Display.

Audio Connection (pages 23 to 25)

A
• No additional settings are needed.

B-1 **C-1**
• Set "DOWNMIX" to "DOLBY SURROUND" (page 76).

B-2 **C-2** **D**
• Set "DOWNMIX" to "DOLBY SURROUND" (page 76).
• Set "DIGITAL OUT" to "ON" (page 76).

Playing Discs DVD-V

DVD-RW VCD CD DATA CD DATA DVD

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

I/(¹)   ⏏   ▷

▷
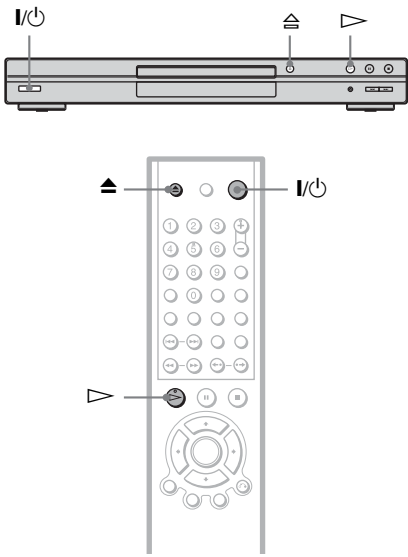
1 Turn on your TV.

2 Press I/(¹).

The player turns on.

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 Press ⏏ on the player, and place a disc on the disc tray.

Playback side facing down
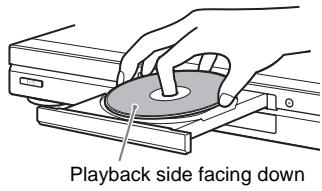
5 Press ▷.

The disc tray closes. 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 DVD VIDEOs, see page 32. For VIDEO CDs, see page 33.

To turn off the player
Press I/(¹). The player enters standby mode.

ᄬ **Hint**
The player turns off automatically whenever you leave it in stop mode for more than 30 minutes. (Auto Power Off function)

Additional operations

CLEAR

ZOOM

◄◄ / ►►►

←• / ◄▌▌ (instant replay)

▌▌

•→ / ▌▌► (instant advance)

▷

■
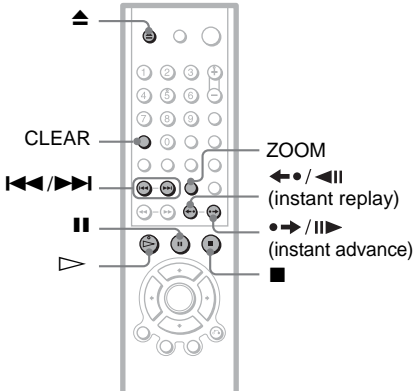
To	Operation
Stop	Press ■
Pause	Press ▌▌
Resume play after pause	Press ▌▌ or ▷
Go to the next chapter, track, or scene in continuous play mode	Press ►►►
Go back to the previous chapter, track, or scene in continuous play mode	Press ◄◄
Stop play and remove the disc	Press ▲
Replay the previous scene*¹	Press ←• / ◄▌▌ (instant replay) during playback
Briefly fast forward the current scene*²	Press •→ / ▌▌► (instant advance) during playback
Magnify the image*³	Press ZOOM repeatedly. Press CLEAR to cancel.

*1 DVD VIDEOs/DVD-RWs/DVD-Rs only. The button can be used except for DivX video files.
*2 DVD VIDEOs/DVD-RWs/DVD-Rs/ DVD+RWs only. The button can be used except for DivX video files.
*3 Video and JPEG pictures only (except BACKGROUND pictures). You can move the enlarged picture using ←/↑/↓/→. Depending upon the contents of the disc, the zoom function may be cancelled automatically when the picture is moved.

☆ Hints
• The Instant Replay function is useful when you want to review a scene or dialogue that you missed.
• The Instant Advance function is useful when you want to pass over a scene that you don't want to watch.

Note

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

Locking the disc tray (Child Lock)

You can lock the disc tray to prevent children from opening it.

▌/⏻
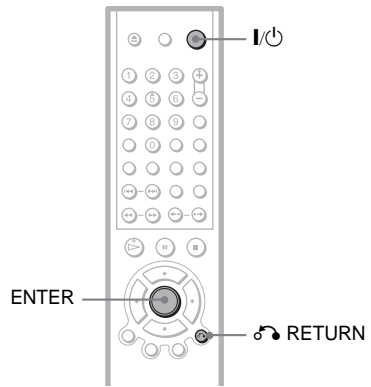
ENTER

♂ RETURN

When the player is in standby mode, press ♂ RETURN, ENTER, and then ▌/⏻ on the remote.
The player turns on and "LOCKED" appears on the front panel display. The ▲ and ▲ buttons on the player or the remote do not work while the Child Lock is set.

To unlock the disc tray
When the player is in standby mode, press ♂ RETURN, ENTER, and then ▌/⏻ again.

Note

Even if you select "RESET" under "SETUP" in the Control Menu (page 72), the disc tray remains locked.

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

The player stores the point where you stopped the disc for up to 40 discs and resumes playback the next time you insert the same disc. If you store a resume playback point for the 41st disc, the resume playback point for the first disc is deleted.
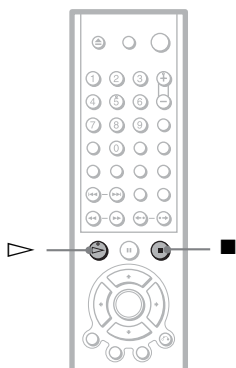
1 While playing a disc, press ■ to stop playback.

"RESUME" appears on the front panel display.

2 Press ▷.

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

῍ΰ Hint
To play from the beginning of the disc, press ■ twice, then press ▷.

• The point where you stopped playing is cleared when:
– you change the play mode.
– you change the settings on the Setup Display.
• For DVD-RWs in VR mode, CDs, DATA CDs, and DATA DVDs, the player remembers the resume playback point for the current disc. The resume point is cleared when:
– you opened the disc tray.
– you disconnect the power cord.
– the player enters standby mode (DATA CD/ DATA DVD only).
• Resume Play does not work during Shuffle Play and Programme Play.
• This function may not work with some discs.
• If "MULTI-DISC RESUME" in "CUSTOM SETUP" is set to "ON" and you playback a recorded disc such as DVD-RW, the player may playback other recorded discs from the same resume point. To play from the beginning, press ■ twice and then press ▷.

Playing Discs

31

Using the DVD's Menu DVD-V

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 language for the sound and subtitles, select these items using the MENU button.

Number buttons

ENTER

TOP MENU

←/↑/↓/→
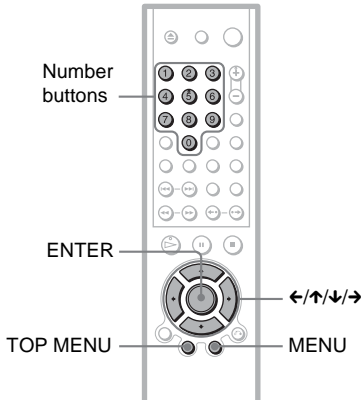
MENU

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.

If you press the number buttons, the following display appears.
Press the number buttons to select the item you want.

3 Press ENTER.

Selecting "ORIGINAL" or "PLAY LIST" on a DVD-RW DVD-RW

Some DVD-RWs in VR (Video Recording) mode have two types of titles for playback: originally recorded titles (ORIGINAL) and titles that can be created on recordable DVD players for editing (PLAY LIST). You can select the type of title to be played.

↑/↓
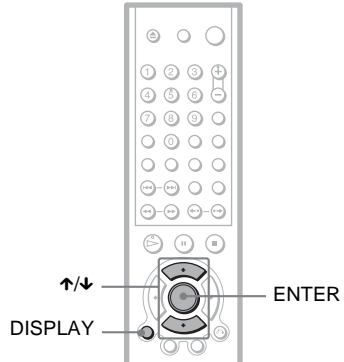
DISPLAY

ENTER

1 Press DISPLAY when the player is in stop mode.

The Control Menu appears.

2 Press ↑/↓ to select ▭ ⊡ (ORIGINAL/PLAY LIST), then press ENTER.

The options for "ORIGINAL/PLAY LIST" appear.


```
12(27)
18(34)            DVD-RW
T   1:32:55
PLAY LIST
PLAY LIST
ORIGINAL
```
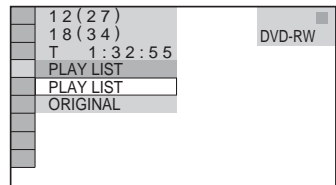
3 Press ↑/↓ to select a setting.

- PLAY LIST: plays the titles created from "ORIGINAL" for editing.
- ORIGINAL: plays the titles originally recorded.

4 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.

Number buttons

⏮/⏭

▷ ■

ENTER

⮌ RETURN
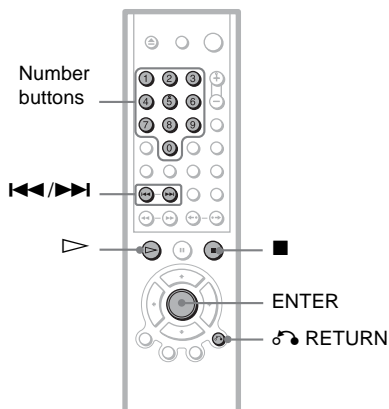
1 Start playing a VIDEO CD with PBC functions.

The menu for your selection appears.

2 Press the number buttons to select the item number you want.

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.

Note

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 ▷.

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

You can set the following play modes:
• Programme Play (page 34)
• Shuffle Play (page 35)
• Repeat Play (page 36)
• A-B Repeat Play (page 37)

Note

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

Creating your own programme (Programme Play) DVD-V 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 titles, chapters, and tracks.
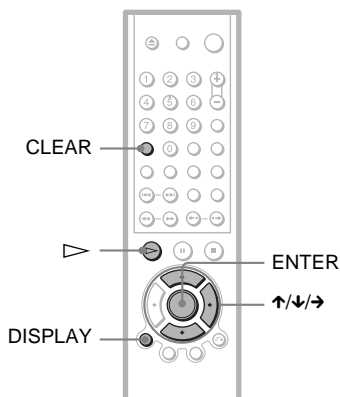
1 Press DISPLAY.
The Control Menu appears.

2 Press ↑/↓ to select [PROGRAM] (PROGRAM), then press ENTER.
The options for "PROGRAM" appear.

```
1 2 ( 2 7 )
1 8 ( 3 4 )                         ▶
T    1 : 3 2 : 5 5        DVD VIDEO
OFF
OFF
SET →
ON
```
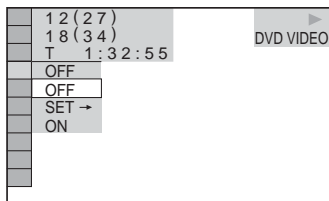
3 Press ↑/↓ to select "SET →," then press ENTER.

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

```
PROGRAM
ALL CLEAR              T
1. TITLE            – –
2. TITLE – –         01
3. TITLE – –         02
4. TITLE – –         03
5. TITLE – –         04
6. TITLE – –         05
7. TITLE – –
```
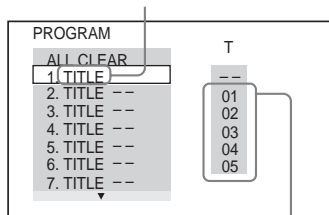
Titles or tracks recorded on a disc

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

```
PROGRAM
ALL CLEAR           T      C
1. TITLE – –       – –    ALL
2. TITLE – –        01     01
3. TITLE – –        02     02
4. TITLE – –        03     03
5. TITLE – –        04     04
6. TITLE – –        05     05
7. TITLE – –               06
```
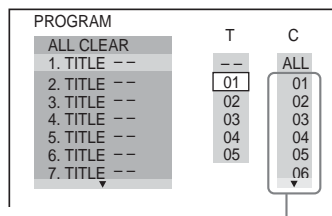
Chapters recorded on a disc

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

◆ When playing a DVD VIDEO
For example, select chapter "03" of title "02."
Press ↑/↓ to select "02" under "T," then press ENTER.

```
PROGRAM
ALL CLEAR           T      C
1. TITLE – –       – –    ALL
2. TITLE – –        01     01
3. TITLE – –        02     02
4. TITLE – –        03     03
5. TITLE – –        04     04
6. TITLE – –        05     05
7. TITLE – –               06
```
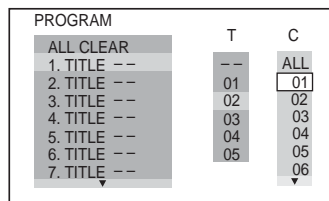
Next, press ↑/↓ to select "03" under "C," then press ENTER.

```
PROGRAM                    T
ALL CLEAR
1. TITLE (0 2 – 0 3)      – –
2. TITLE  – –             01
3. TITLE  – –             02
4. TITLE  – –             03
5. TITLE  – –             04
6. TITLE  – –             05
7. TITLE  – –
        ▼
```

Selected title and chapter

◆ When playing a VIDEO CD or CD
For example, select track "02."
Press ↑/↓ to select "02" under "T," then press ENTER.

Selected track

```
PROGRAM            (0:15:30)
ALL CLEAR              T
1. TRACK  (0 2)      – –
2. TRACK  – –        01
3. TRACK  – –        02
4. TRACK  – –        03
5. TRACK  – –        04
6. TRACK  – –        05
7. TRACK  – –
        ▼
```

Total time of the programmed tracks

6 To programme other titles, chapters, or tracks, repeat steps 4 to 5.
The programmed titles, chapters, and tracks are displayed in the selected order.

7 Press ▷ to start Programme Play.
Programme Play begins.
When the programme ends, you can restart the same programme again by pressing ▷.

To return to normal play
Press CLEAR, or select "OFF" after step 2. To play the same programme again, select "ON" in step 3 and press ENTER.

To change or cancel a programme

1 Follow steps 1 to 3 of "Creating your own programme (Programme Play)."

2 Select the programme number of the title, chapter, or track you want to change or cancel using ↑/↓ and press →. If you want to delete the title, chapter, or track from the programme, press CLEAR.

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

To cancel all of the titles, chapters, or tracks in the programmed order

1 Follow steps 1 to 3 of "Creating your own programme (Programme Play)."

2 Press ↑ and select "ALL CLEAR."

3 Press ENTER.

☼ Hint
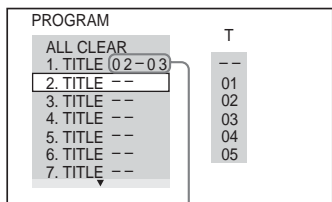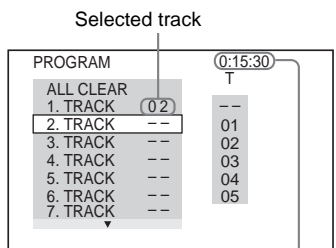You can perform Repeat Play or Shuffle Play of programmed titles, chapters, or tracks. During Programme Play, follow the steps of Repeat Play (page 36) or Shuffle Play (page 35).

Notes
• When you programme tracks on a Super VCD, the total playing time is not displayed.
• You cannot use this function with VIDEO CDs and Super VCDs with PBC playback.

Playing in random order (Shuffle Play) DVD-V VCD CD

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

CLEAR

▷

DISPLAY

ENTER

↑/↓

1 Press DISPLAY during playback.
The Control Menu appears.

Playing Discs

2 Press ↑/↓ to select ⌐🎲 |
(SHUFFLE), then press ENTER.
The options for "SHUFFLE" appear.

```
 12(27)                      ►
 18(34)              DVD VIDEO
 T   1:32:55

 OFF
 OFF
 TITLE
 CHAPTER
```
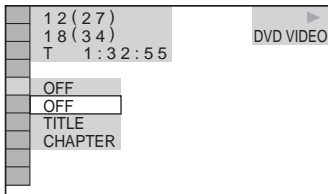
3 Press ↑/↓ to select the item to be
shuffled.

◆ When playing a DVD VIDEO
• 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.

4 Press ENTER.
Shuffle Play starts.

To return to normal play
Press CLEAR, or select "OFF" in step 3.

ʊ̈ 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.

Note
You cannot use this function with VIDEO CDs and
Super VCDs with PBC playback.

Playing repeatedly (Repeat Play)

DVD-V DVD-RW VCD CD DATA CD DATA DVD

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

CLEAR

▷   ENTER

                                     ↑/↓
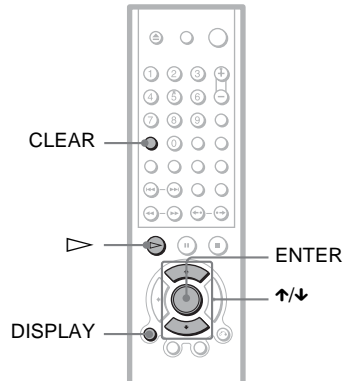
DISPLAY

1 Press DISPLAY during playback.
The Control Menu appears.

2 Press ↑/↓ to select ⌐⟳ |
(REPEAT), then press ENTER.
The options for "REPEAT" appear.

```
 1(12)                       ►
 1(28)               DVD VIDEO
 T   0:00:02

 OFF
 OFF
 DISC
 TITLE
 CHAPTER
```
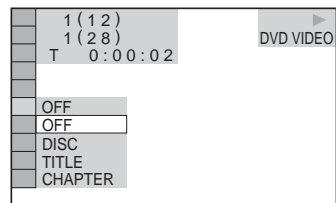
◆ When playing a DVD VIDEO
• DISC: repeats all of the titles.
• TITLE: repeats the current title on a
  disc.
• CHAPTER: repeats the current chapter.

◆ When playing a DVD-RW
• DISC: repeats all the titles of the
  selected type.
• 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/DATA DVD**
- DISC: repeats all of the albums.
- ALBUM: repeats the current album.
- TRACK (MP3 audio tracks only): repeats the current track.
- FILE (DivX video files only): repeats the current file.

◆ **When Programme Play or Shuffle Play is activated**
- ON: repeats Programme Play or Shuffle Play.

3 **Press ↑/↓ to select a setting, and press ENTER.**

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.

Notes
- You cannot use this function with VIDEO CDs and Super VCDs with PBC playback.
- When repeating a DATA CD which contains MP3 audio tracks and JPEG image files, and their playing times are not the same, the sound will not match the image.
- When "MODE (MP3, JPEG)" is set to "IMAGE (JPEG)" (page 59), you cannot select "TRACK."

Repeating a specific portion (A-B Repeat Play)

DVD-V **DVD-RW** **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.)
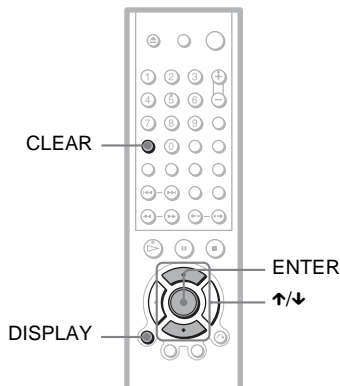
1 **Press DISPLAY during playback.**
The Control Menu appears.

2 **Press ↑/↓ to select ▢ (A-B) (A-B REPEAT), then press ENTER.**
The options for "A-B REPEAT" appear.

```
 12(27)                    ►
 18(34)              DVD VIDEO
 T  1:32:55


  OFF
  SET →
  OFF
```
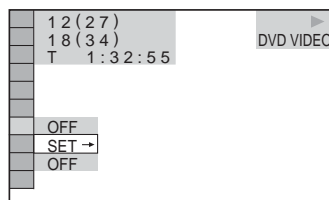
3 **Press ↑/↓ to select "SET →," then press ENTER.**
The "A-B REPEAT" setting bar appears.

```
 ▢ (A-B) A 18 - 1:32:30   B
```
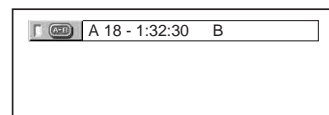
4 **During playback, when you find the starting point (point A) of the portion to be played repeatedly, press ENTER.**
The starting point (point A) is set.

| A 18 - 1:32:30   B 18 - 1:33:05 |
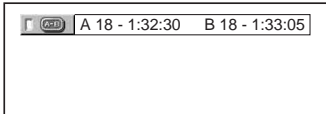
5 **When you reach the ending point (point B), press ENTER again.**
The set points are displayed and the player starts repeating this specific portion.

To return to normal play
Press CLEAR, or select "OFF" in step 3.

Notes

• When you set A-B Repeat Play, the settings for Shuffle Play, Repeat Play, and Programme Play are cancelled.
• A-B Repeat Play does not work across multiple titles.
• You cannot set A-B Repeat Play for contents on a DVD-RW (VR mode) that contains still pictures.

Searching for a Scene

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

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

◄◄ ◄◄/
►►►

▷

◄•/◄�ⅠⅠ

•➝/ⅠⅠ►

Ⅰ◄◄/►►Ⅰ
▷
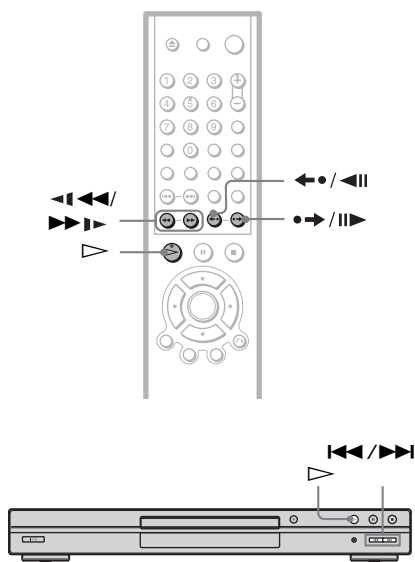
Notes

- Depending on the disc, you may not be able to do some of the operations described.
- For DATA CDs, you can search for a particular point only on an MP3 audio track.

Locating a point quickly using the previous/next buttons

DVD-V **DVD-RW** **VCD** **CD** **DATA CD** **DATA DVD**

You can search for the next or previous chapter, track, or scene using Ⅰ◄◄ /►►Ⅰ on the player.
During playback, press ►►Ⅰ or Ⅰ◄◄ once briefly to go to the next or previous chapter/track/scene. Or, press and hold ►►Ⅰ or Ⅰ◄◄ to search forward or backwards, and release the button when you find the point you want to return to normal playback. (Search)

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

DVD-V **DVD-RW** **VCD** **CD** **DATA CD** **DATA DVD**

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 scan speed changes. With each press the indication changes as shown below. Actual speeds may differ between discs.

Playback direction

×2► → 1►► → 2►► → 3►►

3►► (DVD VIDEO/DVD-RW/VIDEO CD/DATA CD (DivX video)/DATA DVD only)
×2► (DVD VIDEO/CD only)

Opposite direction

×2◄ → 1◄◄ → 2◄◄ → 3◄◄

3◄◄ (DVD VIDEO/DVD-RW/VIDEO CD/DATA CD (DivX video)/DATA DVD only)
×2◄ (DVD VIDEO only)

The "×2►"/ "×2◄" playback speed is about twice the normal speed.
The "3►►"/"3◄◄" playback speed is faster than "2►►"/"2◄◄" and the "2►►"/"2◄◄" playback speed is faster than "1►►"/
"1◄◄."

39

Watching frame by frame (Slow-motion Play)

DVD-V DVD-RW VCD DATA CD DATA DVD

Press ◄❙ ◄◄ or ►► ❙► when the player is in pause mode. To return to 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 VIDEO/DVD-RW only)
    2 ◄❙ ⟷ 1 ◄❙

The "2 ❙►"/"2 ◄❙" playback speed is slower than "1 ❙►"/"1 ◄❙."

Note
For DATA CDs, this function works only for DivX video files.

Playing one frame at a time (Freeze Frame) DVD-V DVD-RW VCD DATA CD DATA DVD

When the player is in the pause mode, press •➔/❙❙► (step) to go to the next frame. Press ◄•/◄❙❙ (step) to go to the preceding frame (DVD VIDEO/DVD-RW only). To return to normal playback, press ▷.

Notes
• You cannot search for a still picture on a DVD-RW in VR mode.
• For DATA CDs, this function works only for DivX video files.

Searching for a Title/Chapter/Track/Scene, etc. DVD-V DVD-RW VCD CD DATA CD DATA DVD

You can search a DVD by title or chapter, and you can search a VIDEO CD/CD/DATA CD/DATA DVD 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. You can also search for a scene using the time code.

Number buttons
CLEAR
ENTER
↑/↓
DISPLAY
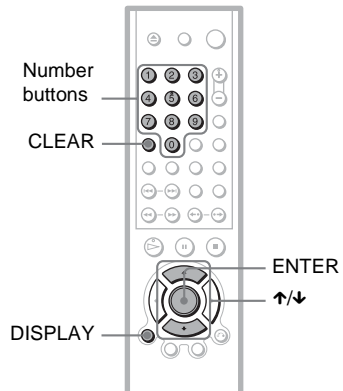
1 Press DISPLAY (When playing a DATA CD with JPEG image files, press twice).

The Control Menu appears.

2 Press ↑/↓ to select a search method.

◆ When playing a DVD VIDEO/DVD-RW

    🎬 TITLE
    🎬 CHAPTER
    🕐 TIME/TEXT

Select "TIME/TEXT" to search for a starting point by inputting the time code.

◆ When playing a VIDEO CD or Super VCD without PBC playback

    🎬 TRACK
    🎬 INDEX

◆ **When playing a VIDEO CD or Super VCD with PBC Playback**

[🎬] SCENE

◆ **When playing a CD**

[♫] TRACK

◆ **When playing a DATA CD/DATA DVD**

[🖼] ALBUM

[♫] TRACK (MP3 audio tracks only)

[🖼] FILE (JPEG image files, and DivX video files only)
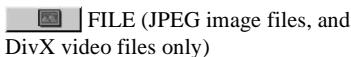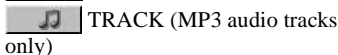
Example: when you select [🎬] CHAPTER

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

```
 12(27)
(18(34))            ▶
 T  1:32:55    DVD VIDEO




            Selected row
```
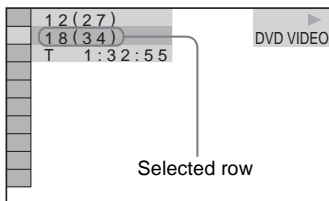
3 Press ENTER.

"∗∗ (∗∗)" changes to "-- (∗∗)."

```
 12(27)
 --(34)             ▶
 T  1:32:55    DVD VIDEO



```
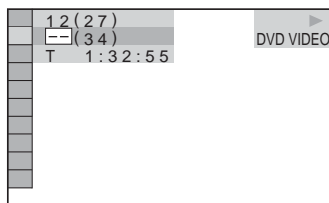
4 Press the number buttons to select the title, chapter, track, index, or scene number you want to search.

◆ **If you make a mistake**
Cancel the number by pressing CLEAR, then select another number.

5 Press ENTER.

The player starts playback from the selected number.

To search for a scene using the time code (DVD VIDEO/DVD-RW only)

1 In step 2, select [🕐] TIME/TEXT.
"T ∗∗:∗∗:∗∗" (playing time of the current title) is selected.

2 Press ENTER.
"T ∗∗:∗∗:∗∗" changes to "T --:--:--."

3 Input the time code using the number buttons, then press ENTER.
For example, to find the scene at 2 hours, 10 minutes, and 20 seconds after the beginning, just enter "2:10:20."

✧ Hints
- When the Control Menu display is turned off, you can search for a chapter (DVD VIDEO/DVD-RW), track (CD), or file (DATA CD (DivX video)/DATA DVD (DivX video)) by pressing the number buttons and ENTER.
- You can display the first scene of titles, chapters, or tracks recorded on the disc on a screen divided into 9 sections. You can start playback directly by selecting one of the scenes. For details, see "Searching by Scene (PICTURE NAVIGATION)" (page 42).

Notes
- The title, chapter, or track number displayed is the same number recorded on the disc.
- You cannot search for a scene on a DVD+RW using the time code.

Searching by Scene

(PICTURE NAVIGATION) DVD-V VCD

You can divide the screen into 9 subscreens and find the desired scene quickly.

PICTURE NAVI

←/↑/↓/→

ENTER

DISPLAY

⊙ RETURN
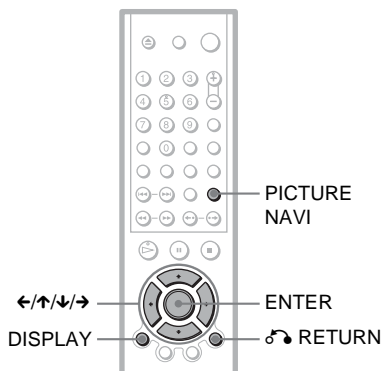
1 Press PICTURE NAVI during playback.

The following display appears.

⊞ CHAPTER VIEWER → ENTER
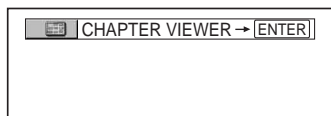
2 Press PICTURE NAVI repeatedly to select an item.

- CHAPTER VIEWER (DVD VIDEO only): displays the first scene of each chapter.
- TITLE VIEWER (DVD VIDEO only): displays the first scene of each title.
- TRACK VIEWER (VIDEO CD/ Super VCD only): displays the first scene of each track.

3 Press ENTER.

The first scene of each chapter, title, or track appears as follows.

1	2	3	
4	5	6	
7	8	9	▼

4 Press ←/↑/↓/→ to select a chapter, title, or track, and press ENTER.

Playback starts from the selected scene.

To return to normal play during setting
Press ⊙ RETURN or DISPLAY.

☼ Hint
If there are more than 9 chapters, titles, or tracks, ▼ is displayed at the bottom right of the screen.
To display the additional chapters, titles, or tracks, select the bottom scenes and press ↓. To return to the previous scene, select the top scenes and press ↑.

Note
Depending on the disc, you may not be able to select some items.

Checking the Playing Time and Remaining Time DVD-V DVD-RW VCD CD DATA CD DATA DVD

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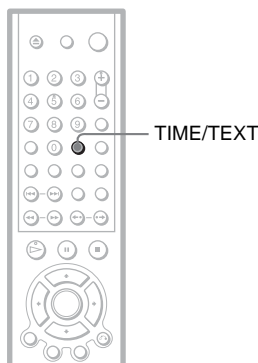
TIME/TEXT

1 Press TIME/TEXT during playback.

The following display appears.

⊕ T 1:01:57 ▶
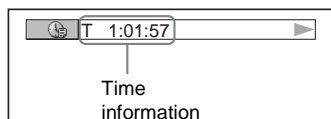
Time
information

2 Press TIME/TEXT repeatedly to change the time information.

The available time information depends upon the type of disc you are playing.

◆ When playing a DVD VIDEO or DVD-RW
• 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 or Super VCD (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 Super VCD (without PBC functions)
• T ∗:∗ (minutes: seconds)
  Playing time of the current track

◆ When playing a DATA CD (MP3 audio)
• T ∗:∗ (minutes: seconds)
  Playing time of the current track

◆ When playing a DATA CD (DivX video)/ DATA DVD (DivX video)
• ∗:∗:∗ (hours: minutes: seconds)
  Playing time of the current file

Checking the play information of the Disc

To check the DVD/CD text
Press TIME/TEXT repeatedly in step 2 to display text recorded on the DVD/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.

BRAHMS SYMPHONY
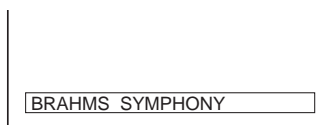
To check DATA CD/DATA DVD album name, etc.

By pressing TIME/TEXT while playing MP3 audio tracks on a DATA CD or DivX video files on a DATA CD, DATA DVD, you can display the name of the album/track/file and the audio bit rate (the amount of data per second of the current audio) on your TV screen.

Bit rate*

```
┌─────────────────────────────────────┐
│ 🔁 T   17:30 │128k│           ▶      │
│                                      │
│                                      │
│                                      │
│  JAZZ                                │
│  RIVER SIDE ●                        │
└─────────────────────────────────────┘
```

Album name   Track/file name
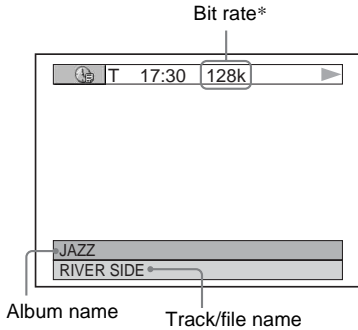
* Appears when:
  – playing an MP3 audio track on a DATA CD.
  – playing a DivX video file that contains MP3 audio on a DATA CD/DATA DVD.

Checking the information on the front panel display

You can view the time information and text displayed on the TV screen also on the front panel display. The information on the front panel display changes as follows when you change the time information on your TV screen.

When playing a DVD VIDEO or DVD-RW

Playing time of the current title

```
┌──────────────────────┐
│  T    10324          │ ←
└──────────────────────┘
```
↓

Remaining time of the current title

```
┌──────────────────────┐
│  T -  11596          │
└──────────────────────┘
```
↓

Playing time of the current chapter

```
┌──────────────────────┐
│  C    02230          │
└──────────────────────┘
```
↓

Remaining time of the current chapter

```
┌──────────────────────┐
│  C - 01320           │
└──────────────────────┘
```
↓

Text

```
┌──────────────────────┐
│  SONY   HI           │
└──────────────────────┘
```
↓

Current title and chapter number

```
┌──────────────────────┐
│  T 16  8             │
└──────────────────────┘
```
(returns to top automatically)

When playing a DATA CD (MP3 audio)

Playing time and number of the current track

```
┌──────────────────────┐
│  6     225           │ ←
└──────────────────────┘
```
↓

Track name

```
┌──────────────────────┐
│  01HAPPY             │
└──────────────────────┘
```

When playing a DATA CD (DivX video), or DATA DVD (DivX video)

Playing time of the current file

```
  15:32
```

⬇

The current file name

```
  VENICE
```

⬇

The current album and file number

```
  20  123
```

(returns to top automatically)

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

Playing time and number of the current track

```
  3    2:25
```

⬇

Remaining time of the current track

```
  3  - 1:50
```

⬇

Playing time of the disc

```
  32:12
```

⬇

Remaining time of the disc

```
  -20:18
```

⬇

Text

```
  SONY  HI
```

⬇

Current track and index number*

```
  3   1
```

(returns to top automatically)

* The current track and index number appear only when playing a VIDEO CD.

💡 Hints

- When playing VIDEO CDs with PBC functions, the scene number or the playing time are displayed.
- Long text that does not fit in a single line will scroll across the front panel display.
- You can also check the time information and text using the Control Menu (page 13).

Notes

- Depending on the type of disc being played, the discs text or track name may not be displayed.
- The player can only display the first level of the discs text, such as the disc name or title.
- Playing time of MP3 audio tracks and DivX video files may not be displayed correctly.
- If you play a disc containing JPEG image files only, "NO AUDIO DATA" appears when "MODE (MP3, JPEG)" is set to "AUTO," "JPEG" appears when "MODE (MP3, JPEG)" is set to "IMAGE (JPEG)" in the front panel display.

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Changing the Sound DVD-V

DVD-RW **VCD** **CD** **DATA CD**

DATA DVD

When playing a DVD VIDEO or DATA DVD/DATA CD (DivX video files) recorded in multiple audio formats (PCM, Dolby Digital, MPEG audio, or DTS), you can change the audio format. If the DVD VIDEO is recorded with multilingual tracks, you can also change the language.

With CDs, DATA CDs, or VIDEO CDs, you can select the sound from either 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.
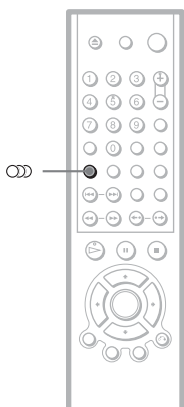
1 Press ⟳ (audio) during playback.

The following display appears.

```
⟳ 1:ENGLISH  DOLBY DIGITAL 3/2.1
```
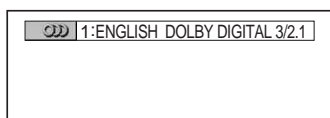
2 Press ⟳ (audio) repeatedly to select the desired audio signal.

◆ When playing a DVD VIDEO
Depending on the DVD VIDEO, the choice of language varies.
When 4 digits are displayed, they indicate a language code. See "Language Code List" on page 85 to see which language the code represents. When the same language is displayed two or more times, the DVD VIDEO is recorded in multiple audio formats.

◆ When playing a DVD-RW
The types of sound tracks recorded on a disc are displayed. The default setting is underlined.
Example:
• 1: MAIN (main sound)
• 1: SUB (sub sound)
• 1: MAIN+SUB (main and sub sound)

◆ 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 DATA CD (DivX video), or DATA DVD (DivX video)
The choice of DATA CD or DATA DVD audio signal formats differ, depending on the DivX video file contained on the disc. The format is shown in the display.

◆ 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-V` `DATA CD` `DATA DVD`

You can check the audio signal format by pressing ◯◯ repeatedly during playback. The format of the current audio signal (Dolby Digital, DTS, PCM, etc.) appears as shown below.

◆**When playing a DVD VIDEO**

Example:
Dolby Digital 5.1 ch

Rear (L/R)

◯◯ 1:ENGLISH DOLBY DIGITAL 3 / 2 .1

Front (L/R) + Centre   LFE (Low Frequency Effect)

Example:
Dolby Digital 3 ch

◯◯ 2:SPANISH DOLBY DIGITAL 2 / 1

Front (L/R)   Rear (Monaural)
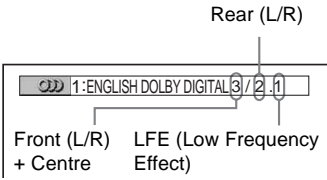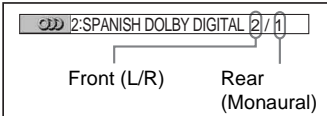
◆**When playing a DivX video file on a DATA CD or a DATA DVD**

Example:
MP3 audio

◯◯ 1: MP3 128k

Bit rate
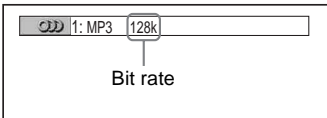
About audio signals

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" in "AUDIO SETUP" is set to "OFF," the DTS track selection option will not appear on the screen even if the disc contains DTS tracks (page 77).

Sound Adjustments

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TV Virtual Surround Settings (TVS) DVD-V

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.
If the player is set up to output the signal from the DIGITAL OUT (OPTICAL or COAXIAL) jack, the surround effect will only be heard when "DOLBY DIGITAL" is set to "D-PCM" and "MPEG" is set to "PCM" in "AUDIO SETUP" (page 76).

SUR

1 Press SUR during playback.

The following display appears.

TVS DYNAMIC

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

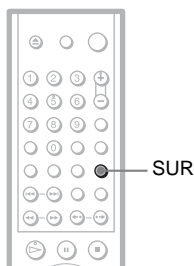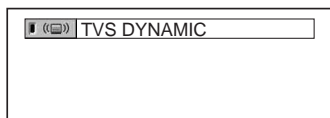See the explanations given for each item in the following section.
• TVS DYNAMIC
• TVS WIDE
• TVS NIGHT
• TVS STANDARD

To cancel the setting
Select "OFF" in step 2.

◆TVS DYNAMIC
Creates one set of 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 five sets of 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.
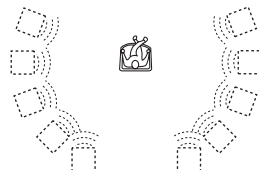
◆TVS NIGHT
Large sounds, such as explosions, are suppressed, but quieter sounds are unaffected. This feature is useful when you want to hear the dialog and enjoy the surround sound effects of "TVS WIDE" at low volume.

◆TVS STANDARD
Creates three sets of virtual rear speakers from the sound of the front speakers (L, R) without using actual rear speakers (shown below). Use this setting when you want to use TVS with 2 separate speakers.

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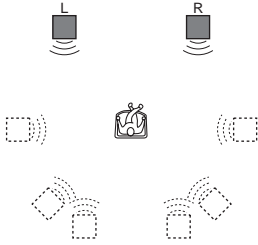
L: Front speaker (left)
R: Front speaker (right)
▢: Virtual speaker

Notes

- When the playing signal does not contain a signal for the rear speakers, you cannot hear the TVS effect.
- 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.
- Not all discs will respond to the "TVS NIGHT" function in the same way.

Changing the Angles

DVD-V

If various angles (multi-angles) for a scene are recorded on the DVD VIDEO, " 📹 " appears in the front panel display. This means that you can change the viewing angle.
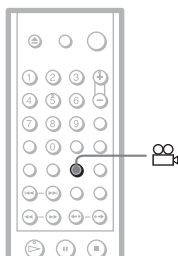
1 Press 📹 (angle) during playback.

The number of the angle appears on the display.
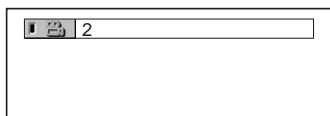
2 Press 📹 (angle) repeatedly to select an angle number.

The scene changes to the selected angle.

Note

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

Displaying the Subtitles

DVD-V **DVD-RW** **DATA CD**

DATA DVD

If subtitles are recorded on the discs, you can change the subtitles or turn them on and off whenever you want while playing the disc.
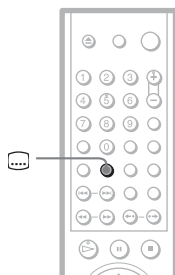
1 Press ⊡ (subtitle) during playback.

The following display appears.

```
⊡ 1:ENGLISH
```
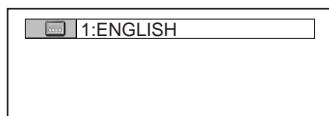
2 Press ⊡ (subtitle) repeatedly to select a setting.

◆ **When playing a DVD VIDEO**
Select the language.
Depending on the DVD VIDEO, the choice of language varies.
When 4 digits are displayed, they indicate a language code. See "Language Code List" on page 85 to see which language the code represents.

◆ **When playing a DVD-RW**
Select "ON."

◆ **When playing a DATA CD (DivX video), or DADA DVD (DivX video)**
The choices of DATA CD or DATA DVD subtitles differ, depending on the DivX video file contained on the disc. The choices are shown in the display.

To turn off the subtitles

Select "OFF" in step 2.

- Depending on the DVD VIDEO, 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.
- With DATA CDs, subtitles can be changed for DivX video files only.
- You can change the subtitles if the DivX video file has an ".AVI" or ".DIVX" extension and contains subtitle information within the same file.

Adjusting the Playback Picture (CUSTOM PICTURE MODE)

DVD-V **DVD-RW** **VCD** **DATA CD**
DATA DVD

You can adjust the video signal of the DVD, VIDEO CD, DATA CD in JPEG format, or DATA CD/DATA DVD containing DivX video files from the player to obtain the picture quality you want. Choose the setting that best suits the programme you are watching. When you select "MEMORY," you can make further adjustments to each element of the picture (colour, brightness, etc.).

PICTURE MODE

←/↑/↓/→

DISPLAY

ENTER

⮌ RETURN

Enjoying Movies
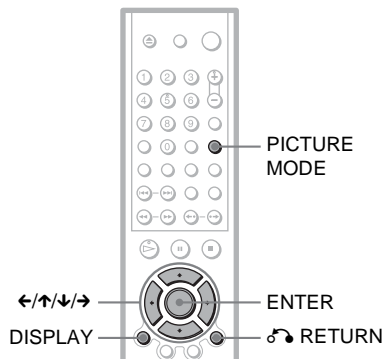
1 Press PICTURE MODE during playback.

The following display appears.

```
┃ ▦  DYNAMIC 1
```
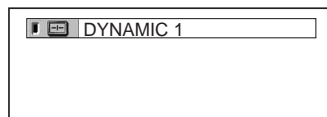
2 Press PICTURE MODE repeatedly to select the setting you want.

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.

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- DYNAMIC 2: produces a more dynamic picture than DYNAMIC 1 by further increasing the picture contrast and colour intensity.
- CINEMA 1: enhances details in dark areas by increasing the black level.
- CINEMA 2: white colours become brighter and black colours become richer, and the colour contrast is increased.
- MEMORY: adjusts the picture in greater detail.

☼ Hint
When you watch a movie, "CINEMA 1" or "CINEMA 2" is recommended.

Adjusting the picture items in "MEMORY"

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

1 Press PICTURE MODE repeatedly to select "MEMORY" and press ENTER.
The "PICTURE" adjustment bar appears.

| PICTURE ————|———— 0 |

2 Press ←/→ to adjust the picture contrast.
To go the next or previous picture item without saving the current setting, press ↑/↓.

3 Press ENTER.
The adjustment is saved, and "BRIGHTNESS" adjustment bar appears.

4 Repeat step 2 and 3 to adjust "BRIGHTNESS," "COLOR," and "HUE."

To turn off the display
Press ♂ RETURN , or DISPLAY.

Note
The "BRIGHTNESS" setting is not effective if you connect the player via the LINE OUT (VIDEO), S VIDEO OUT, or LINE (RGB)-TV jack, and select "PROGRESSIVE AUTO" or "PROGRESSIVE VIDEO" by using the progressive button on the front panel.

Sharpening the Pictures

(SHARPNESS)

DVD-V **DVD-RW** **VCD** **DATA CD**

DATA DVD

You can enhance the outlines of images to produce a sharper picture.

Enjoying Movies

ENTER

DISPLAY

↑/↓
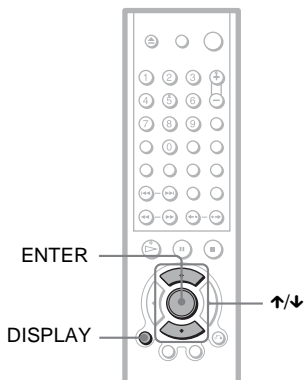
1 Press DISPLAY during playback.

The Control Menu appears.

2 Press ↑/↓ to select ┌▢ ┐ (SHARPNESS), then press ENTER.

The options for "SHARPNESS" appear.

```
1 2 ( 2 7 )                    ▶
1 8 ( 3 4 )           DVD VIDEO
T    1 : 3 2 : 5 5



OFF
OFF
1
2
```
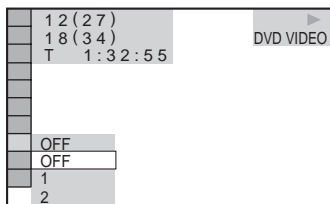
3 Press ↑/↓ to select a level.

- 1: enhances the outline.
- 2: enhances the outline more than 1.

4 Press ENTER.

The selected setting takes effect.

To cancel the "SHARPNESS" setting
Select "OFF" in step 3.

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About MP3 Audio Tracks and JPEG Image Files

MP3 is audio compression technology that satisfies the ISO/MPEG regulations. JPEG is image compression technology.
You can play DATA CDs that contain MP3 audio tracks or JPEG image files.

DATA CDs that the player can play

You can play back DATA CDs (CD-ROMs/CD-Rs/CD-RWs) recorded in MP3 (MPEG1 Audio Layer 3) and JPEG format. However, the discs must be recorded according to ISO9660 Level 1, Level 2 or Joliet format for the player to recognize the tracks (or files). You can also play discs recorded in Multi Session.
Refer to the instructions supplied with the CD-R/CD-RW drives and the recording software (not supplied) for details on the recording format.

Note on Multi Session discs

If MP3 audio tracks or JPEG image files are recorded in the first session, the player will also play MP3 audio tracks or JPEG image files in other sessions. If 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.

Note

The player may not be able to play some DATA CDs created in the Packet Write format.

MP3 audio track or JPEG image file that the player can play

The player can play the following tracks and files:
– MP3 audio tracks with the extension ".MP3."
– JPEG image files with the extension ".JPEG" or ".JPG."
– JPEG image files that conform to the DCF* image file format.

* "Design rule for Camera File system": Image standards for digital cameras regulated by JEITA (Japan Electronics and Information Technology Industries Association).

Notes

• The player will play any data with the extension ".MP3," ".JPG," or ".JPEG," even if they are not in MP3 or JPEG format. Playing these data may generate a loud noise which could damage your speaker system.
• The player does not conform to audio tracks in MP3PRO format.
• Some JPEG files cannot be played.
• You cannot play MP3 audio tracks/JPEG image files in DATA CDs that contain DivX video files.

About playback order of albums, tracks, and files

Albums play in the following order:

◆Structure of disc contents

Tree 1   Tree 2   Tree 3   Tree 4   Tree 5
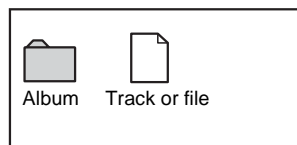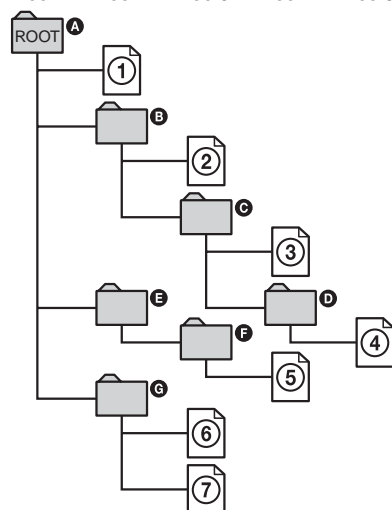
When you insert a DATA CD and press ▷, the numbered tracks (or files) are played sequentially, from ① through ⑦. Any sub-albums/tracks (or files) contained within a currently selected album take priority over the next album in the same tree. (Example: **C** contains **D** so ④ is played before ⑤.)

When you press MENU and the list of album names appears (page 56), the album names are arranged in the following order: **A** → **B** → **C** → **D** → **F** → **G**. Albums that do not contain tracks (or files) (such as album **E**) do not appear in the list.

ϔ Hints
- If you add numbers (01, 02, 03, etc.) to the front of the track/file names when you store the tracks (or files) in a disc, the tracks and files will be played in that order.
- Since a disc with many trees takes longer to start playback, it is recommended that you create albums with no more than two trees.

Notes
- Depending on the software you use to create the DATA CD, the playback order may differ from the above illustration.
- The playback order above may not be applicable if there are more than 200 albums and 300 tracks/files in each album.
- The player can recognize up to 200 albums (the player will count just albums, including albums that do not contain MP3 audio tracks and JPEG image files). The player will not play any albums beyond the 200th album.
- Proceeding to the next or another album may take some time.

Playing MP3 Audio Tracks or JPEG Image Files DATA CD

You can play MP3 audio tracks and JPEG image files on DATA CDs (CD-ROMs/CD-Rs/CD-RWs).

CLEAR

ZOOM
PICTURE NAVI

▷
■
←/↑/↓/→
ENTER
DISPLAY
⌐∘ RETURN
MENU
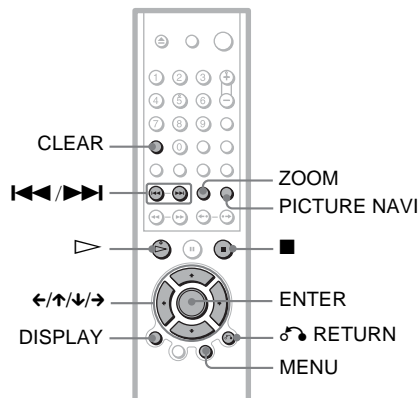
ϔ Hint
You can view the disc information while playing MP3 audio tracks and JPEG image files (page 43).

Notes
- DATA CDs recorded in KODAK Picture CD format automatically start playing when inserted.
- If no MP3 audio track or JPEG image file is recorded on the DATA CD, "No audio data" or "No image data" appears on the screen.

Selecting an album

1 Press MENU.

The list of albums on the disc appears.
When an album is being played, its title is
shaded.

```
  🎵   3( 30)

R O C K   B E S T   H I T
K A R A O K E
M Y   F A V O U R I T E   S O N G
R & B
J A Z Z
C L A S S I C
S A L S A   O F   C U B A
B O S S A   N O V A
                        ▾
```

2 Press ↑/↓ to select the album you want to play.

3 Press ▷.

Playback starts from the selected album.
To select MP3 audio tracks, see
"Selecting an MP3 audio track"
(page 56).
To select JPEG image files, see
"Selecting a JPEG image file" (page 57).

To stop playback
Press ■.

To go to the next or previous page
Press → or ←.

To turn on or off the display
Press MENU repeatedly.

✧ Hint
Of the selected album, you can select to play only
the MP3 audio tracks, JPEG image files, or both, by
setting "MODE (MP3, JPEG)" (page 59).

Selecting an MP3 audio track

1 After step 2 of "Selecting an album," press ENTER.

The list of tracks in the album appears.

```
  🎵 M Y   F A V O U R I T E   S O N G
  🎵     1 ( 2 5 6 )

W A L T Z   F O R   D E B B Y
M Y   R O M A N C E
M I L E S   T O N E S
M Y   F U N N Y   V A L E N T I N E
A U T U M   L E A V E S
A L L   B L U E S
S O M E D A Y   M Y   P R I N C E   W . . .
                        ▾
```
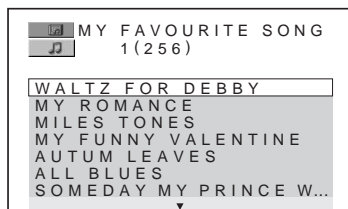
2 Press ↑/↓ to select a track, and press ENTER.

Playback starts from the selected track.

To stop playback
Press ■.

To go to the next or previous page
Press → or ←.

To return to the previous display
Press ♂ RETURN.

To go to the next or previous MP3 audio track
Press ▶▶┃ or ┃◀◀ during playback. You can
select the first track of the next album by
pressing ▶▶┃ during playback of the last
track of the current album.
Note that you cannot return to the previous
album by using ┃◀◀ , and that you need to
select the previous album from the album list.

Selecting a JPEG image file

1 After step 2 of "Selecting an album," press PICTURE NAVI.

The image files in the album appear in 16 subscreens. A scroll box is displayed on the right.

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

To display the additional image, select the bottom images and press ↓. To return to the previous image, select the top images and press ↑.

2 Press ←/↑/↓/→ to select the image you want to view, and press ENTER.

The selected image appears.
Example
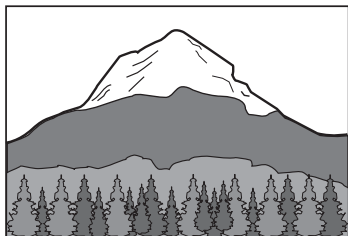
To go to the next or previous JPEG image file

Press ← or → during playback. You can select the first file of the next album by pressing → during playback of the last file of the current album.
Note that you cannot return to the previous album by using ←, and that you need to select the previous album from the album list.

To rotate a JPEG image

Press ↑/↓ while viewing the image. Each time you press ↑, the image rotates counterclockwise by 90 degrees.
To return to normal view, press CLEAR.
Note that the view also returns to normal if you press ←/→ to go to the next or previous image.
Example: when ↑ is pressed once.

Rotating direction
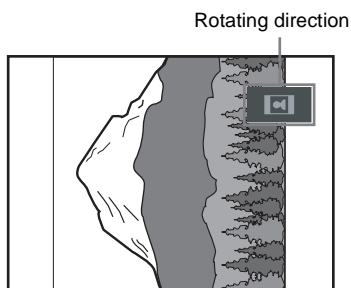
To magnify a JPEG image (ZOOM)

Press ZOOM while viewing the image. You can enlarge the image up to four times the original size, and scroll using ←/↑/↓/→.
To return to normal view, press CLEAR.

◆When pressed once (x2)
The image enlarges twice the original size.
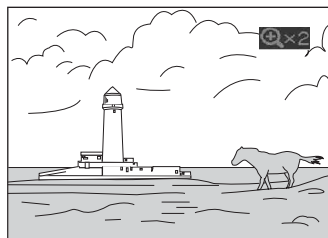
◆When pressed twice (x4)
The image enlarges four times the original size.

Enjoying MP3 Audio and JPEG Images
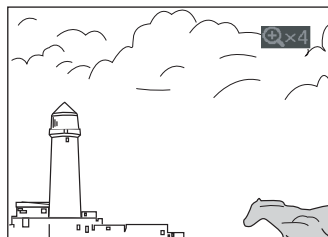
To stop viewing the JPEG image
Press ■.

⋅ゔ⋅ Hints
- While viewing JPEG image files, you can set options such as "INTERVAL" (page 60), "EFFECT" (page 60), and "SHARPNESS" (page 53).
- You can view JPEG images files without MP3 audio by setting "MODE (MP3, JPEG)" to "IMAGE (JPEG)" (page 59).
- The date the picture was taken is displayed beside "DATE" in the Control Menu (page 13). Note that no date may appear depending on the digital camera.

Note
PICTURE NAVI does not work if "AUDIO (MP3)" is selected in "MODE (MP3, JPEG)" (page 59).

Enjoying JPEG Images as a Slide Show DATA CD

You can play JPEG image files on a DATA CD successively as a slide show.

1 Press MENU.

The list of albums on the DATA CD appears.

```
  🎵   3( 30)

R O C K  B E S T  H I T
K A R A O K E
M Y  F A V O U R I T E  S O N G
R & B
J A Z Z
C L A S S I C
S A L S A  O F  C U B A
B O S S A  N O V A
                          ▼
```
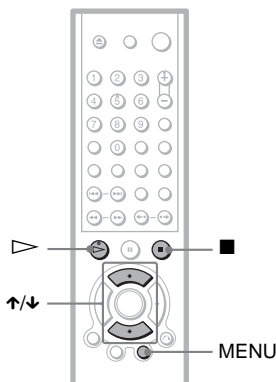
2 Press ↑/↓ to select an album.

3 Press ▷.

The JPEG images in the selected album start playing as a slide show.

To stop playback
Press ■.

- The slide show stops when ↑/↓ or ZOOM is pressed. To resume the slide show, press ▷.
- This function does not work if "MODE (MP3, JPEG)" is set to "AUDIO (MP3)" (page 59).

Viewing a slide show with sound (MODE (MP3, JPEG))

When JPEG image files and MP3 audio tracks are placed in the same album, you can enjoy a slide show with sound.

▷ —

↑/↓ —
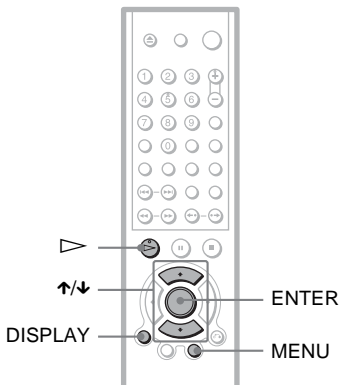
DISPLAY —   — ENTER

     — MENU

1 Press DISPLAY during stop mode.
The Control Menu appears.

2 Press ↑/↓ to select ⬚DATA (MODE (MP3, JPEG)), and press ENTER.
The options for "MODE (MP3, JPEG)" appear.

```
  1 2 ( 2 7 )
  1 8 ( 3 4 )                DATA CD MP3
  T      3 2 : 5 5
  AUTO
  AUTO
  AUDIO (MP3)
  IMAGE (JPEG)
```
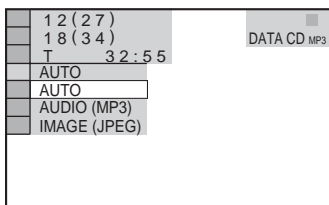
3 Press ↑/↓ to select "AUTO" (default), and press ENTER.
- AUTO: plays both the JPEG image files and MP3 audio tracks in the same album as a slide show.
- AUDIO (MP3): plays only MP3 audio tracks continuously.
- IMAGE (JPEG): plays only JPEG image files continuously.

4 Press MENU.
The list of albums on the DATA CD appears.

```
  ⬚    3 ( 3 0 )

  R O C K   B E S T   H I T
  K A R A O K E
  M Y   F A V O U R I T E   S O N G
  R & B
  J A Z Z
  C L A S S I C
  S A L S A   O F   C U B A
  B O S S A   N O V A
                          ▾
```
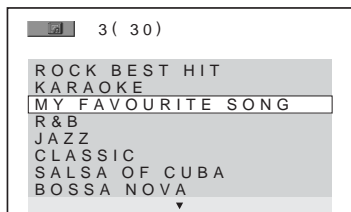
5 Press ↑/↓ to select the album that contains both the MP3 audio tracks and JPEG images you want to play.

6 Press ▷.
A slide show starts with sound.

ʚ̃ **Hints**
- To repeat both MP3 audio tracks and JPEG image files in a single album, repeat the same MP3 audio track or album when "MODE (MP3, JPEG)" is set to "AUTO." See "Playing repeatedly (Repeat Play)" (page 36) to repeat the track or album.
- The player recognizes a maximum of 200 albums regardless of the selected mode. Of each album, the player recognizes up to 300 MP3 audio tracks and 300 JPEG image files when "AUTO" is selected, 600 MP3 audio tracks when "AUDIO (MP3)" is selected, 600 JPEG image files when "IMAGE (JPEG)" is selected.

Notes
- This function does not work if the MP3 audio tracks and JPEG image files are not placed in the same album.
- If playing time of JPEG image or MP3 audio is longer than the other, the longer one continues without sound or image.
- If you play large MP3 track data and JPEG image data at the same time, the sound may skip. It is recommended that you set the MP3 bit rate to 128 kbps or lower when creating the file. If the sound still skips, then reduce the size of the JPEG file.

Enjoying MP3 Audio and JPEG Images

Setting the pace for a slide show (INTERVAL)

You can set the time the slides are displayed on the screen.
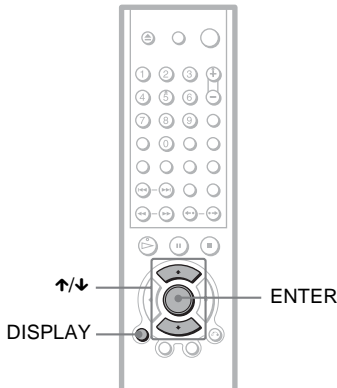
↑/↓
ENTER
DISPLAY

1 **Press DISPLAY twice while viewing a JPEG image or when the player is in stop mode.**
The Control Menu appears.

2 **Press ↑/↓ to select** [▧] **(INTERVAL), then press ENTER.**
The options for "INTERVAL" appear.


```
      3 (  12)
      1(   4)              DATA CD JPEG
   29/10/2004
  NORMAL
  NORMAL
  FAST
  SLOW1
  SLOW2
```
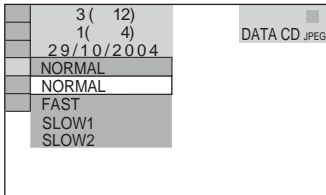
3 **Press ↑/↓ to select a setting.**
The default setting is underlined.
- <u>NORMAL</u>: sets the duration to between 6 to 9 seconds.
- FAST: sets a duration shorter than NORMAL.
- SLOW1: sets a duration longer than NORMAL.
- SLOW2: sets a duration longer than SLOW1.

4 **Press ENTER.**

Note

Some JPEG files, especially progressive JPEG files or JPEG files of 3,000,000 pixels or more, may take longer to display than others, which may make the duration seem longer than the setting you selected.

Selecting the slides' appearance (EFFECT)

You can select the way the slides are displayed during a slide show.
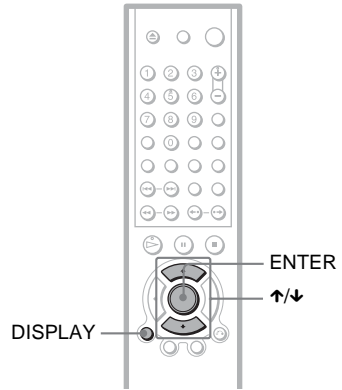
ENTER
↑/↓
DISPLAY

1 **Press DISPLAY twice while viewing a JPEG image or when the player is in stop mode.**

2 **Press ↑/↓ to select** [▦] **(EFFECT), then press ENTER.**
The options for "EFFECT" appear.


```
      3 (  12)
      1(   4)              DATA CD JPEG
   23/10/2004

  MODE1
  MODE1
  MODE2
  MODE3
  MODE4
  MODE5
  OFF
```
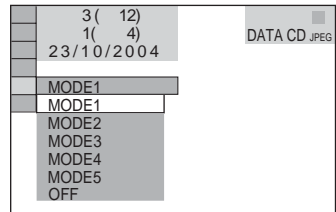
3 Press ↑/↓ to select a setting.

The default setting is underlined.

- <u>MODE1</u>: the image sweeps in from top to bottom.
- MODE2: the image sweeps in from left to right.
- MODE3: the image stretches out from the centre of the screen.
- MODE4: the images randomly cycle through the effects.
- MODE5: the next image slides over the previous image.
- OFF: turns off this function.

4 Press ENTER.

Enjoying MP3 Audio and JPEG Images

About DivX Video Files

DivX® is a video file compression technology, developed by DivXNetworks, Inc. This product is an official DivX® Certified product.
You can play DATA CDs and DATA DVDs that contain DivX video files.

DATA CDs and DATA DVDs that the player can play

Playback of DATA CDs (CD-ROMs/CD-Rs/CD-RWs) and DATA DVDs (DVD-Rs/DVD-RWs/DVD+Rs/DVD+RWs) on this player is subject to certain conditions:
– With DATA CDs that contain DivX video files in addition to MP3 audio tracks or JPEG image files, the player plays only the DivX video files.
– With DATA DVDs, the player plays DivX video files only. Any data other than DivX video file, such as MP3 audio tracks and JPEG image files, are not played.
However, this player only plays DATA CDs whose logical format is ISO 9660 Level 1/Level 2 or Joliet, and DATA DVDs of Universal Disk Format (UDF).
You can also play DATA CDs recorded in Multi Session (page 54), although DATA DVDs recorded in Multi Session are not playable.
Refer to the instructions supplied with the disc drives and the recording software (not supplied) for details on the recording format.

About playback order of data on DATA CDs or DATA DVDs

See "About playback order of albums, tracks, and files" (page 54). Note that the playback order may not be applicable, depending on the software used for creating the DivX video file, or if there are more than 200 albums and 600 DivX video files in each album.

Note
The player may not be able to play some DATA CDs/DATA DVDs created in the Packet Write format.

DivX video files that the player can play

The player can play data that is recorded in DivX format, and which has the extension ".AVI," or ".DIVX." The player will not play files with the extension ".AVI" or ".DIVX" if they do not contain a DivX video.

☼ Hint
For details about playable MP3 audio tracks or JPEG image files on DATA CDs, see "DATA CDs that the player can play" (page 54).

Notes
• The player may not play a DivX video file when the file has been combined from two or more DivX video files.
• The player cannot play a DivX video file of size more than 720 (width) × 576 (height)/2 GB.
• Depending on the DivX video file, the picture may be unclear or the sound may skip.
• The player cannot play some DivX video files that are longer than 3 hours.

Playing DivX Video Files

DATA CD **DATA DVD**

You can play DivX video files on DATA CDs (CD-ROMs/CD-Rs/CD-RWs) and DATA DVDs (DVD-Rs/DVD-RWs/DVD+Rs/DVD+RWs).

⎯ |◄◄ /►►|
⎯ ▷
⎯ ■
⎯ ←/↑/↓/→
⎯ ENTER
⎯ DISPLAY
⎯ ⟲ RETURN
⎯ MENU
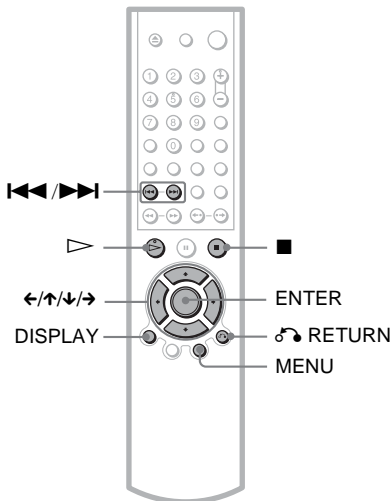
ϔ Hint
You can view the disc information while playing a DivX video file (page 43).

Notes
- If there are no DivX video files recorded on the DATA DVD, a message appears to indicate that the disc is not playable.
- Depending on the DivX video file, the picture may pause or be unclear. In which case, it is recommended that you create the file at a lower bit rate. If the sound is still noisy, MP3 is the recommended audio format. Note, however, this player does not conform to WMA (Windows Media Audio) format.
- Because of the compression technology used for DivX video files, it may take some time after you press ▷ (play) for the picture to appear.
- Depending on the DivX video file, the sound may not match the pictures on the screen.

Selecting an album

1 Press MENU.
A list of albums on the disc appears. Only albums that contain DivX video files are listed.
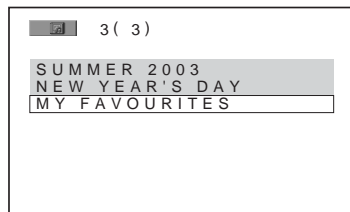
```
 🎞   3( 3)


S U M M E R   2 0 0 3
N E W   Y E A R ' S   D A Y
M Y   F A V O U R I T E S
```

2 Press ↑/↓ to select the album you want to play.

3 Press ▷.
Playback starts from the selected album. To select DivX video files, see "Selecting a DivX video file" (page 64).

To stop playback
Press ■.

To go to the next or previous page
Press ← or →.

To turn the display on or off
Press MENU repeatedly.

Enjoying DivX® Videos

Selecting a DivX video file

1 **After step 2 of "Selecting an album," press ENTER.**

The list of files in the album appears.

```
█▓MY FAVOURITES
█▓    1 ( 2 )

H A W A I I   2 0 0 4
V E N U S
```
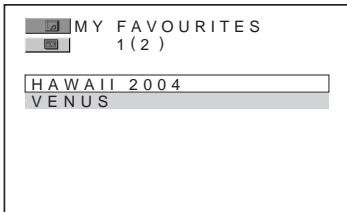
2 **Press ↑/↓ to select a file, and press ENTER.**

The selected file starts playing.

To stop playback
Press ■.

To go to the next or previous page
Press ← or →.

To return to the previous display
Press δ⌐ RETURN.

To go to the next or previous DivX video file without turning on the above file list
You can select the next or previous DivX video file in the same album by pressing ▶▶│ or │◀◀ .
You can also select the first file of the next album by pressing ▶▶│ during playback of the last file of the current album. Note that you cannot return to the previous album by using │◀◀ . To return to the previous album, select it from the album list.

ϔ Hint
If the number of viewing times is preset, you can play the DivX video files as many times as the preset number. The following occurrences are counted:
– when the player is turned off. This includes when the player is automatically turned off by the Auto Power Off function. Press ▌▌ instead of ■ when you want to stop viewing
– when the disc tray is opened.
– when another file is played.

Locking Discs (CUSTOM PARENTAL CONTROL, PARENTAL CONTROL)

You can set two kinds of playback restrictions for a disc.
- Custom Parental Control
  You can set playback restrictions so that the player will not play inappropriate discs.
- Parental Control
  Playback of some DVD VIDEOs 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-V 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 cancelled.

Number buttons

ENTER

DISPLAY

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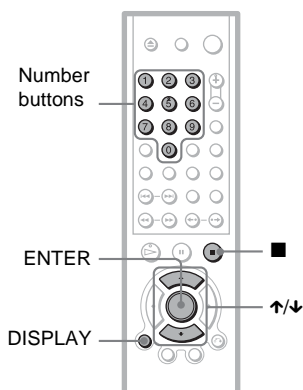
1 Insert the disc you want to lock.
If the disc is playing, press ■ to stop playback.

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

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

```
12(27)
18(34)                    ■
T   1:32:55          DVD VIDEO

ON →
PLAYER →
PASSWORD →
OFF
```
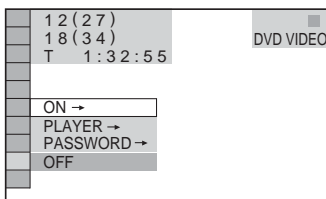
4 Press ↑/↓ to select "ON →," then press ENTER.

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

```
PARENTAL CONTROL

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

■    ■    ■    ■
```

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.

```
PARENTAL CONTROL

Enter password, then press ENTER .

■    ■    ■    ■
```
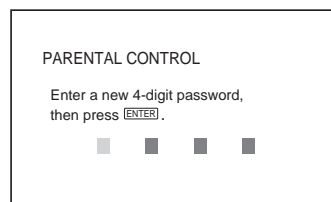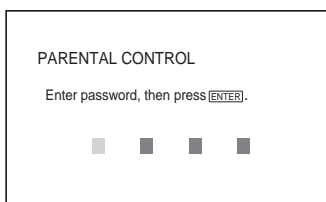
5 Enter or re-enter your 4-digit password using the number buttons, then press ENTER.
"Custom parental control is set." appears and then the screen returns to the Control Menu.

65

To turn off the Custom Parental Control function

1. Follow steps 1 to 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.

```
CUSTOM PARENTAL CONTROL

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

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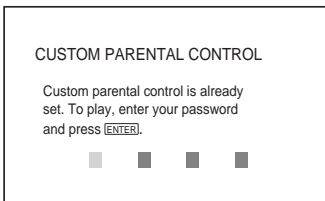
2. Enter your 4-digit password using the number buttons, then press ENTER.
   The player is ready for playback.

ϔ 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-V

Playback of some DVD VIDEOs 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.
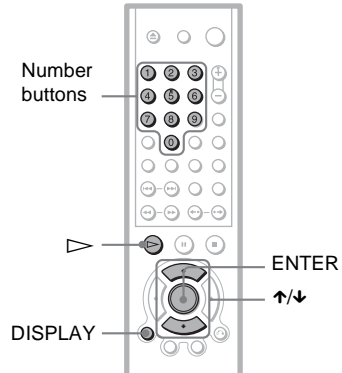
1. **Press DISPLAY while the player is in stop mode.**
   The Control Menu appears.

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

```
1 2 ( 2 7 )
1 8 ( 3 4 )                    DVD VIDEO
T    1 : 3 2 : 5 5


   ON →
   PLAYER →
   PASSWORD →
   OFF
```
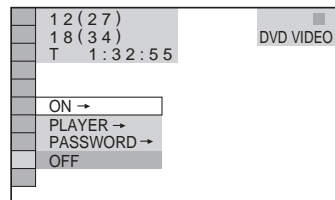
3. **Press ↑/↓ to select "PLAYER →," then press ENTER.**

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

```
PARENTAL CONTROL

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

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.

```
PARENTAL CONTROL

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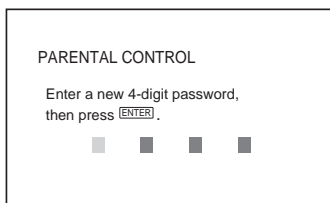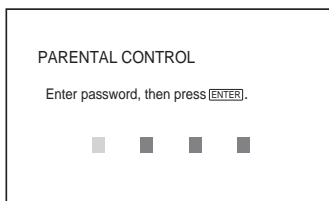
4 **Enter or re-enter your 4-digit password
using the number buttons, then press
ENTER.**
The display for setting the playback
limitation level appears.

```
PARENTAL CONTROL
LEVEL:                         OFF
STANDARD:                      USA
```
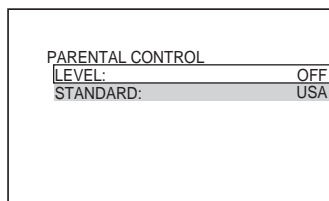
5 **Press ↑/↓ to select "STANDARD,"
then press ENTER.**
The selection items for "STANDARD"
are displayed.

```
PARENTAL CONTROL
LEVEL:                         OFF
STANDARD:                      USA
                               USA
                           OTHERS→
```
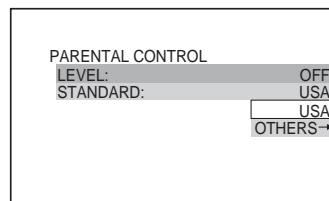
6 **Press ↑/↓ to select a geographic area
as the playback limitation level, then
press ENTER.**
The area is selected.
When you select "OTHERS →," select
and enter a standard code in the table on
page 68 using the number buttons.

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

```
PARENTAL CONTROL
LEVEL:                         OFF
STANDARD:                      OFF
                          8:
                          7:   NC17
                          6:      R
                          5:      ▼
```
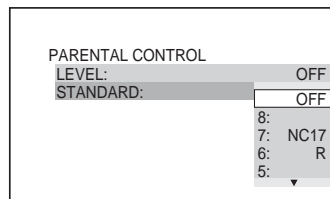
8 **Select the level you want using ↑/↓,
then press ENTER.**
Parental Control setting is complete.

```
PARENTAL CONTROL
LEVEL:                    4:  PG13
STANDARD:                      USA
```
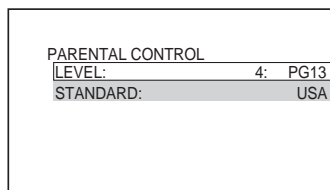
The lower the value, the stricter the
limitation.

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.

Using Various Additional Functions

ʚ **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, replace the disc in the player and press ▷. When the display for entering your password appears, enter your new password.

Notes

- When you play discs which do not have the Parental Control function, playback cannot be limited on this player.
- Depending on the disc, you may be asked to change the parental control level while playing the disc. In this case, enter your password, then change the level. If the Resume Play mode is cancelled, the level returns to the previous level.

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 Menu 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.**

If you make a mistake entering your password
Press ← before you press ENTER and input the correct number.

Controlling Your TV With the Supplied Remote

You can control the sound level, input source, and power switch of your Sony TV with the supplied remote.
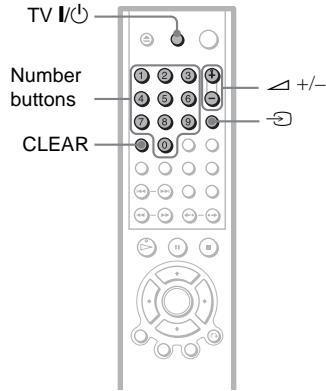
You can control your TV using the buttons below.

By pressing	You can
TV I/⏻	Turn the TV on or off
⊿ (volume) +/–	Adjust the volume of the TV
⊷ (TV/video)	Switch the TV's input source between the TV and other input sources

Using Various Additional Functions

Controlling other TVs with the remote

You can control the sound level, input source, and power switch of non-Sony TVs as well. If your TV is listed in the table below, set the appropriate manufacturer's code.

1 While holding down TV I/⏻, press the number buttons to select the manufacturer's code for your TV (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	01 (default)
Aiwa	01 (default)
Grundig	11
Hitachi	24
JVC	33
LG	06
Loewe	06
Panasonic	17, 49
Philips	06, 08
Samsung	06, 71
Sanyo	25
Sharp	29
Thomson	43
Toshiba	38

Notes
• Depending on the unit being connected, you may not be able to control your TV using all or some of the buttons on the supplied remote.
• 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.
For details on each Setup Display item, see pages from 72 to 77.

Note

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

ENTER

DISPLAY

↑/↓
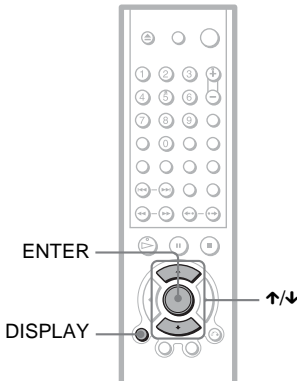
1 Press DISPLAY when the player is in stop mode.

The Control Menu appears.

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

The options for "SETUP" appear.

```
( 47 )                          DVD VIDEO


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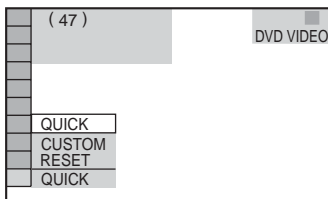
3 Press ↑/↓ to select "CUSTOM," then press ENTER.

The Setup Display appears.

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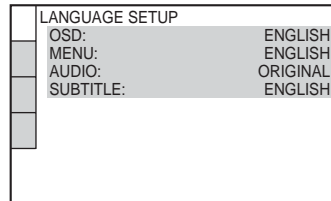
4 Press ↑/↓ to select the setup item from the displayed list: "LANGUAGE SETUP," "SCREEN SETUP," "CUSTOM SETUP," or "AUDIO SETUP." Then press ENTER.

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

Selected item

```
SCREEN SETUP
TV TYPE:                        16:9
SCREEN SAVER:                    ON
BACKGROUND:          JACKET PICTURE
LINE:                          VIDEO
4:3 OUTPUT:                     FULL
```

Setup items
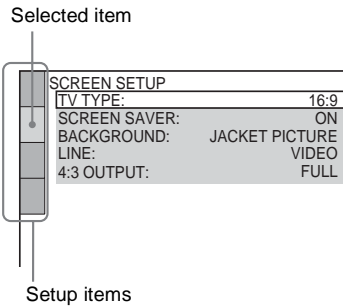
5 Press ↑/↓ to select an item, then press ENTER.

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

```
SCREEN SETUP
TV TYPE:                        16:9
SCREEN SAVER:                   16:9
BACKGROUND:            4:3 LETTER BOX
LINE:                   4:3 PAN SCAN
4:3 OUTPUT:                     FULL
```

Options

Settings and Adjustments

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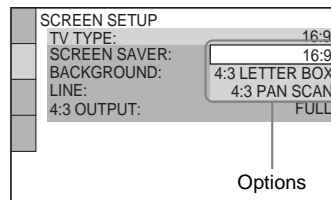
6 Press ↑/↓ to select a setting, then press ENTER.

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

Selected setting

```
SCREEN SETUP
TV TYPE:          [4:3 PAN SCAN]
SCREEN SAVER:               ON
BACKGROUND:     JACKET PICTURE
LINE:                     VIDEO
4:3 OUTPUT:                FULL
```
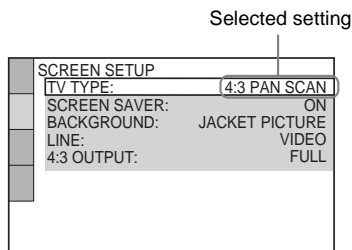
To enter the Quick Setup mode

Select "QUICK" in step 3. Follow from step 5 of the Quick Setup explanation to make basic adjustments (page 26).

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 Menu by selecting "NO" here.

3 Press ENTER.
All the settings explained on pages 72 to 75 return to the default settings. Do not press I/⏻ while resetting the player, which 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 71).

```
LANGUAGE SETUP
OSD:              ENGLISH
MENU:             ENGLISH
AUDIO:           ORIGINAL
SUBTITLE:         ENGLISH
```
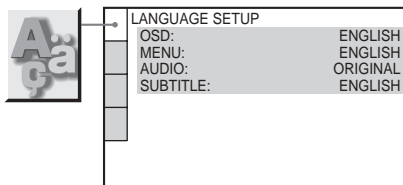
◆ OSD (On-Screen Display)
Switches the display language on the screen.

◆ MENU (DVD VIDEO only)
You can select the desired language for the disc's menu.

◆ AUDIO (DVD VIDEO only)
Switches the language of the sound track.
When you select "ORIGINAL," the language given priority in the disc is selected.

◆ SUBTITLE (DVD VIDEO only)
Switches the language of the subtitle recorded on the DVD VIDEO.
When you select "AUDIO FOLLOW," the language for the subtitles changes according to the language you selected for the sound track.

ϔ Hint
If you select "OTHERS →" in "MENU," "SUBTITLE," or "AUDIO," select and enter a language code from "Language Code List" on page 85 using the number buttons.

Note
If you select a language in "MENU," "SUBTITLE," or "AUDIO" that is not recorded on a DVD VIDEO, one of the recorded languages will be automatically selected.

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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" (page 71).
The default settings are underlined.

```
SCREEN SETUP
TV TYPE:                          16:9
SCREEN SAVER:                       ON
BACKGROUND:            JACKET PICTURE
LINE:                            VIDEO
4:3 OUTPUT:                       FULL
```
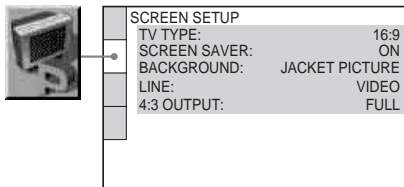
◆ TV TYPE
Selects the aspect ratio of the connected TV (4:3 standard or wide).

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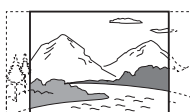
◆ SCREEN SAVER
The screen saver image appears when you leave the player in pause or stop mode for 15 minutes, or when you play a CD or DATA CD (MP3 audio) for more than 15 minutes. The screen saver will help prevent your display device from becoming damaged (ghosting). Press ▷ to turn off the screen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

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

◆ BACKGROUND
Selects the background colour or picture on the TV screen when the player is 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.

◆ LINE
Selects video signals output from the LINE (RGB)-TV jack on the rear panel of the player.

VIDEO	Outputs video signals.
S VIDEO	Outputs S video signals.
RGB	Outputs RGB signals.

Notes

• If your TV does not accept S video or the RGB signals, no picture will appear on the TV screen, even if you select "S VIDEO" or "RGB." Refer to the instructions supplied with your TV.

Settings and Adjustments

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• When you select "RGB," you cannot use the PROGRESSIVE button or the COMPONENT VIDEO OUT jacks.

◆ 4:3 OUTPUT

This setting is effective only when you set "TV TYPE" in "SCREEN SETUP" to "16:9." Adjust this to watch 4:3 aspect ratio progressive signals. If you can change the aspect ratio on your progressive format (525p/625p) compatible TV, change the setting on your TV, not the player. This setting is effective only when "PROGRESSIVE AUTO" or "PROGRESSIVE VIDEO" is selected by using the PROGRESSIVE button on the front panel.

FULL	Select this when you can change the aspect ratio on your TV.
NORMAL	Select this when you cannot change the aspect ratio on your TV. Shows a 16:9 aspect ratio signal with black bands on left and right sides of the image.
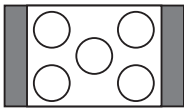
16:9 aspect ratio TV

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 71).
The default settings are underlined.

```
CUSTOM SETUP
AUTO PLAY:              OFF
DIMMER:              BRIGHT
PAUSE MODE:            AUTO
TRACK SELECTION:        OFF
MULTI-DISC RESUME:       ON
DivX:        Registration Code →
```
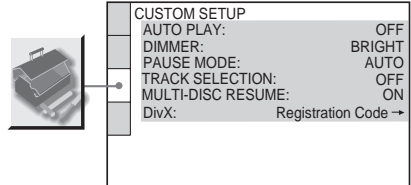
◆ AUTO PLAY

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 by a timer (not supplied).

◆ DIMMER

Adjusts the lighting of the front panel display.

BRIGHT	Makes the lighting bright.
DARK	Makes the lighting dark.
AUTO DARK	Makes the lighting dark if you do not operate the player or remote for a short while.

◆ PAUSE MODE (DVD VIDEO/DVD-RW 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 VIDEO only)

Gives the sound track which contains the highest number of channels priority when you play a DVD VIDEO on which multiple audio formats (PCM, MPEG audio, DTS, 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 72).
- If you set "DTS" to "OFF" (page 77), 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/VIDEO CD only)

Switches the Multi-disc Resume setting on or off. Resume playback can be stored in memory for up to 40 different DVD VIDEOs/VIDEO CDs (page 31).

ON	Stores the resume setting in memory for up to 40 discs.
OFF	Does not store the resume setting in memory. Playback restarts at the resume point only for the current disc in the player.

◆ DivX

Displays the registration code for this player. For more information, go to http://www.divx.com on the Internet.

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 71).
The default settings are underlined.

```
AUDIO SETUP
AUDIO ATT:                        OFF
AUDIO DRC:                   STANDARD
AUDIO FILTER:                   SHARP
DOWNMIX:            DOLBY SURROUND
DIGITAL OUT:                       ON
  DOLBY DIGITAL:               D-PCM
  MPEG:                           PCM
  DTS:                            OFF
  48kHz/96kHz PCM:       48kHz/16bit
```

◆ 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 following jacks:
– LINE OUT L/R (AUDIO) jacks
– LINE (RGB)-TV jack

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

◆ AUDIO DRC (Dynamic Range Control) (DVD VIDEO/DVD-RW only)

Makes the sound clear when the volume is turned down when playing a DVD that conforms to "AUDIO DRC."
This function affects the output from the following jacks:
– LINE OUT L/R (AUDIO) jacks
– LINE (RGB)-TV jack
– DIGITAL OUT (OPTICAL or COAXIAL) jack only when "DOLBY DIGITAL" is set to "D-PCM" (page 76).

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

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Settings and Adjustments

◆ AUDIO FILTER

Selects the digital filter to reduce noise above 22.05 kHz (Sampling frequency (Fs) of the audio source is 44.1 kHz), 24 kHz (Fs is 48 kHz), or 48 kHz (Fs is above 96 kHz).

SHARP	Provides a wide frequency range and spatial feeling.
SLOW	Provides smooth and warm sound.

Note

There may be little effect by changing the digital filter depending on the disc or playback environment.

◆ DOWNMIX (DVD VIDEO/DVD-RW 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 47). This function affects the output of the following jacks:
– LINE OUT L/R (AUDIO) jacks
– LINE (RGB)-TV jack
– DIGITAL OUT (OPTICAL or COAXIAL) jack when "DOLBY DIGITAL" is set to "D-PCM" (page 76).

DOLBY SUR-ROUND	Normally, select this position. Multi-channel audio signals are output to 2 channels for enjoying surround sounds.
NORMAL	Multi-channel audio signals are downmixed to 2 channels for use with your stereo.

◆ DIGITAL OUT

Selects if audio signals are output via the DIGITAL OUT (OPTICAL or COAXIAL) 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," "DTS," and "48kHz/96kHz PCM" after setting "DIGITAL OUT" to "ON."

```
AUDIO SETUP
  AUDIO ATT:                    OFF
  AUDIO DRC:               STANDARD
  AUDIO FILTER:               SHARP
  DOWNMIX:          DOLBY SURROUND
  DIGITAL OUT:                   ON
    DOLBY DIGITAL:            D-PCM
    MPEG:                      PCM
    DTS:                       OFF
    48kHz/96kHz PCM:    48kHz/16bit
```

If you connect a component that is incompatible with the selected audio signal, a loud noise (or no sound) may be heard from the speakers, risking damage to your ears or speakers.

◆ DOLBY DIGITAL (DVD VIDEO/DVD-RW only)

Selects the type of Dolby Digital signal.

D-PCM	Select this when the player is connected to an audio component without 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 75).
DOLBY DIGITAL	Select this when the player is connected to an audio component with a built-in Dolby Digital decoder.

◆ MPEG (DVD VIDEO/DVD-RW only)

Selects the type of MPEG audio signal.

PCM	Select this when the player is connected to an audio component without a built-in MPEG decoder. If you play MPEG audio sound tracks, the player outputs stereo signals via the DIGITAL OUT (OPTICAL or COAXIAL) jack.
MPEG	Select this when the player is connected to an audio component with a built-in MPEG decoder.

◆ DTS

Selects whether or not to output DTS signals.

OFF	Select this when the player is connected to an audio component without a built-in DTS decoder.
ON	Select this when the player is connected to an audio component with a built-in DTS decoder.

◆ 48kHz/96kHz PCM (DVD VIDEO only)

Selects the sampling frequency of the audio signal.

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

Note

The analogue audio signals from the LINE OUT L/R (AUDIO) jacks are not affected by this setting and keep their original sampling frequency level.

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 mains lead is connected securely.

Picture

There is no picture/picture noise appears.
➜ Re-connect the connecting cord securely.
➜ The connecting cords are damaged.
➜ Check the connection to your TV (page 17) and switch the input selector on your TV so that the signal from the player appears on the TV screen.
➜ Set "LINE" in "SCREEN SETUP" to an item appropriate for your system (page 73).
➜ The disc is dirty or flawed.
➜ If the picture output from your player goes through your VCR to get to your TV or if you are 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, try connecting your player to your TV's S VIDEO input (page 17).
➜ The disc is recorded in a colour system that is different from your TV.
➜ You have selected "PROGRESSIVE (AUTO)" or "PROGRESSIVE (VIDEO)" using the PROGRESSIVE button on the front panel (the PROGRESSIVE indicator lights up) even though your TV cannot accept the progressive signal. In this case, select "NORMAL (INTERLACE)" so that the PROGRESSIVE indicator turns off.

➜ Even if your TV is compatible with progressive format 525p/625p signals, the image may be affected when you set the player to progressive format. In this case, select "NORMAL (INTERLACE)" using the PROGRESSIVE button on the front panel so that the PROGRESSIVE indicator turns off and the player is set to normal (interlace) format.
➜ If you set "LINE" to "RGB" in "SCREEN SETUP" (page 26, 73), the player outputs no component video signals.

The picture does not fill the screen, even though the aspect ratio is set in "TV TYPE" under "SCREEN SETUP."
➜ The aspect ratio of the disc is fixed on your DVD.

The picture is black and white.
➜ Set "LINE" in "SCREEN SETUP" to an item appropriate for your TV (page 73).
➜ Depending on the TV, the picture on the screen becomes black and white when you play a disc recorded in the NTSC colour system.
➜ If you are using a SCART cord, be sure to use one that is fully wired (21-pins).

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 or COAXIAL) jack, check the audio settings (page 76).
➜ 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 distortion occurs.
➜ Set "AUDIO ATT" in "AUDIO SETUP" to "ON" (page 75).

The sound volume is low.

➡ The sound volume is low on some DVDs. The sound volume may improve if you set "AUDIO DRC" in "AUDIO SETUP" to "TV MODE" (page 75).
➡ Set "AUDIO ATT" in "AUDIO SETUP" to "OFF" (page 75).

Operation

The remote does not function.

➡ The batteries in the remote are weak.
➡ 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.

The disc does not play.

➡ The disc is turned over.
  Insert the disc with the playback side facing down.
➡ The disc is skewed.
➡ 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 a recorded disc that is not correctly finalized (page 7).

The MP3 audio track cannot be played (page 55).

➡ The DATA CD is not recorded in an MP3 format that conforms to ISO 9660 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.
➡ "MODE (MP3, JPEG)" is set to "IMAGE (JPEG)" (page 59).
➡ The DATA CD contains a DivX video file.
➡ This player cannot play MP3 audio tracks recorded on DATA DVDs.

The JPEG image file cannot be played (page 55).

➡ The DATA CD is not recorded in a JPEG format that conforms to ISO 9660 Level 1/ Level 2, or Joliet.
➡ The file has an extension other than ".JPEG" or ".JPG."
➡ The image is larger than 3072 (width) × 2048 (height) in normal mode, or more than 3,300,000 pixels in progressive JPEG. (Some progressive JPEG files cannot be displayed even if the file size is within this specified capacity.)
➡ The image does not fit the screen (the image is reduced).
➡ "MODE (MP3, JPEG)" is set to "AUDIO (MP3)" (page 59).
➡ The DATA CD contains a DivX video file.
➡ This player cannot play JPEG image files recorded on DATA DVDs.

The MP3 audio tracks and JPEG image files start playing simultaneously.

➡ "MODE (MP3, JPEG)" is set to "AUTO." (page 59).

The DivX video file cannot be played.

➡ The file is not created in DivX format.
➡ The file has an extension other than ".AVI" or ".DIVX."
➡ The DATA CD (DivX video)/DATA DVD is not created in a DivX format that conforms to ISO 9660 Level 1/Level 2 or Joliet/UDF.
➡ The DivX video file is larger than 720 (width) × 576 (height).

The album/track/file names are not displayed correctly.

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

The disc does not start playing from the beginning.

➡ Programme Play, Shuffle Play, Repeat Play, or A-B Repeat Play is selected (page 34).
➡ Resume play has taken effect (page 31).

Additional Information

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The player starts playing the disc automatically.

➡ The disc features an auto playback function.
➡ "AUTO PLAY" in "CUSTOM SETUP" is set to "ON" (page 74).

Playback stops automatically.

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

Some functions such as Stop, Search, Slow-motion Play, Repeat Play, Shuffle Play, or Programme Play cannot be performed.

➡ Depending on the disc, you may not be able to do some of the operations above. Refer to 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 32).
➡ Multilingual tracks are not recorded on the DVD being played.
➡ The DVD prohibits the 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 32).
➡ Multilingual subtitles are not recorded on the DVD being played.
➡ The DVD prohibits the changing of subtitles.

The angles cannot be changed.

➡ Try using the DVD's menu instead of the direct selection button on the remote (page 32).
➡ Multi-angles are not recorded on the DVD being played.
➡ The angle can only be changed when the "🎥" indicator lights up on the front panel display (page 10).
➡ 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.

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

➡ The self-diagnosis function was activated. (See the table on page 81.)

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

➡ Child Lock is set (page 30).

The disc tray does not open and "TRAY LOCKED" appears on the front panel display.

➡ Contact your Sony dealer or local authorized Sony service facility.

"Data error" appears on the TV screen when playing a DATA CD or DATA DVD.

➡ The MP3 audio track/JPEG image file/DivX video file you want to play is broken.
➡ The data is not MPEG1 Audio Layer 3 data.
➡ The JPEG image file format does not conform to DCF (page 54).
➡ The JPEG image file has the extension ".JPG" or ".JPEG," but is not in JPEG format.
➡ The file you want to play has the extension ".AVI" or ".DIVX," but is not in DivX format, or is in DivX format but does not conform to a DivX Certified profile.

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 50) with a combination of a letter and four digits appears on the screen and the front panel display. In this case, check the following table.

C:13:50

First three characters of the service number	Cause and/or corrective action
C 13	The disc is dirty or recorded in a format that this player cannot play (page 7). ➡ Clean the disc with a soft cloth or check its format (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

Album (page 54, 56)
A unit in which to store JPEG image files or MP3 audio tracks on a DATA CD. ("Album" is an exclusive definition for this player.)

Chapter (page 10)
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.

DivX® (page 62)
Digital video technology created by DivXNetworks, Inc. Videos encoded with DivX technology are among the highest quality with a relatively small file size.

Dolby Digital (page 21, 76)
Digital audio compression technology developed by Dolby Laboratories. This technology conforms to multi-channel surround sound. The rear channel is stereo and there is a discrete subwoofer channel in this format. Dolby Digital provides the same discrete channels of high quality digital audio found in "Dolby Digital" theatre surround sound systems. 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.

Dolby Surround (Pro Logic) (page 21)
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.

Additional Information

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DTS (page 21, 77)

Digital audio compression technology that Digital Theater Systems, Inc. developed. This technology conforms to multi-channel surround sound. The rear channel is stereo and there is a discrete subwoofer channel in this format. DTS provides the same 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 VIDEO (page 6)

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, a worldwide standard 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 realistic audio presence.

Furthermore, various advanced functions such as the multi-angle, multilingual, and Parental Control functions are provided with the DVD.

DVD-RW (page 6)

A DVD-RW is a recordable and rewritable disc that is the same size as a DVD VIDEO. The DVD-RW has two different modes: VR mode and Video mode. DVD-RWs created in Video mode have the same format as a DVD VIDEO, while discs created in VR (Video Recording) mode allow the contents to be programmed or edited.

DVD+RW (page 6)

A DVD+RW (plus RW) is a recordable and rewritable disc. DVD+RWs use a recording format that is comparable to the DVD VIDEO format.

File (page 54, 57)

A JPEG image recorded on a DATA CD or a DivX video on a DATA CD/DATA DVD ("File" is an exclusive definition for this player). A single file consist of a single image or video.

Film based software, Video based software (page 19)

DVDs can be classified as Film based or Video based software. Film based DVDs contain the same images (24 frames per second) that are shown at movie theatres. Video based DVDs, such as television dramas or sit-coms, displays images at 30 frames/60 fields (24 frames/50 fields) per second.

MPEG audio (page 21, 77)

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.

Normal (Interlace) format (page 19)

Normal (Interlace) format shows every other line of an image as a single "field" and is the standard method for displaying images on television. The even number field shows the even numbered lines of an image, and the odd numbered field shows the odd numbered lines of an image.

Progressive format (page 19)

Compared to the Interlace format that alternately shows every other line of an image (field) to create one frame, the Progressive format shows the entire image at once as a single frame. This means that while the Interlace format can show 25 or 30 frames (50-60 fields) in one second, the Progressive format can show 50-60 frames in one second. The overall picture quality increases and still images, text, and horizontal lines appear sharper. This player is compatible with the 525 or 625 progressive format.

Progressive JPEG

Progressive JPEGs are used mostly on the internet. They are different from other JPEGs in that they "fade in" gradually instead of being drawn from top to bottom when displayed on a browser. This lets you view the image while it is being downloaded.

Scene (page 10)

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 13)

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 13)

Sections of a picture or a music feature on a VIDEO CD, CD or DATA CD (the length of a song). ("Track" in DATA CD is an exclusive definition for this player.)

Video Index (VIDEO CD) (page 13)

A number that divides a track into sections to easily locate the point you want on a VIDEO CD. Depending on the disc, no index may be recorded.

Additional Information

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
(LINE OUT L/R (AUDIO) 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)

Outputs
(**Jack name:** Jack type/Output level/Load
impedance)
LINE OUT (AUDIO): Phono jack/2 Vrms/
10 kilohms
DIGITAL OUT (OPTICAL): Optical
output jack/–18 dBm (wave length
660 nm)
DIGITAL OUT (COAXIAL): Phono jack/
0.5 Vp-p/75 ohms
LINE OUT (VIDEO): 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
**COMPONENT VIDEO OUT (Y, P_B/C_B,
P_R/C_R):** Phono jack/Y: 1.0 Vp-p, P_B/C_B,
P_R/C_R: 0.7 Vp-p/75 ohms

General
Power requirements:
220 – 240 V AC, 50/60 Hz
Power consumption: 13 W
Dimensions (approx.):
430 × 55.5 × 239 mm
(width/height/depth) incl. projecting
parts
Mass (approx.): 2.1 kg
Operating temperature: 5 °C to 35 °C
Operating humidity: 25 % to 80 %

Supplied accessories
See page 16.

Specifications and design are subject to
change without notice.

Language Code List

For details, see pages 46, 50, 72.
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

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http://www.sony.net/