# CD/DVD Player

Operating Instructions

DVP-NS78H

WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus 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.

Do not expose the battery to excessive heat such as direct sunlight, fire, or the like.

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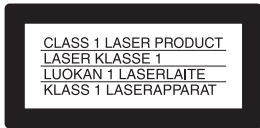
This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

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 ⊛ or ⑬ 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.

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)
This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

The manufacturer of this product is Sony Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan. The Authorized Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany. For any service or guarantee matters please refer to the addresses given in separate service or guarantee documents.

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.
- Keep the unit and discs away from equipment with strong magnets, such as microwave ovens, or large loudspeakers.
- Do not place heavy objects on the unit.

Notes About the Discs

- To keep the disc clean, handle the disc by its edge. Do not touch the surface. Dust, fingerprints, or scratches on the disc may cause it to malfunction.

- 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.

2

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.
- Install the player so that the AC power cord (mains lead) can be unplugged from the wall socket immediately in the event of trouble.

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, disc/lens cleaners

Do not use cleaning discs or disc/lens cleaners (including wet or spray types). These may cause the apparatus to malfunction.

On replacement of parts

In the event that this unit is repaired, repaired parts may be collected for reuse or recycling purposes.

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 commercial DVDs, DVD+RWs/DVD+Rs/ DVD+Rs DL (+VR mode) and DVD-RWs/DVD-Rs/DVD-Rs DL (VR mode, video mode).
- The meaning of the icons used in this manual is described below:

Icons	Meaning
DVDvideo	Functions available for commercial DVDs and DVD+RWs/DVD+Rs/DVD+Rs DL in +VR mode or DVD-RWs/DVD-Rs/DVD-Rs DL in video mode
DVDVR	Functions available for DVD-RWs/DVD-Rs/DVD-Rs DL 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[*2*3] video files)
DATA DVD	Functions available for DATA DVDs (DVD-ROMs/DVD+RWs/DVD+Rs/DVD+Rs DL/DVD-RWs/DVD-Rs/DVD-Rs DL containing MP3[*1] audio tracks, JPEG image files, and DivX[*2*3] video files)

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

This Player Can Play the Following Discs

Format of discs	
Commercial DVD	**DVD** VIDEO
DVD-RW/-R	**DVD** R W **DVD** R R4.7
DVD+RW/+R/ +R DL	**RW** DVD+ReWritable **RW** DVD+R **RW** DVD+R DL
VIDEO CD/ Music CD	COMPACT **disc** DIGITAL VIDEO COMPACT **disc** DIGITAL AUDIO
CD-RW/-R	COMPACT **disc** ReWritable COMPACT **disc** Recordable

"DVD+RW," "DVD-RW," "DVD+R," "DVD+R DL," "DVD-R," "DVD VIDEO," and "CD" logos 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+Rs/DVD+Rs DL/ DVD-RWs/DVD-Rs/DVD-Rs DL recorded in the following formats:
– MP3 audio tracks, JPEG image files, and DivX video files of format conforming to UDF (Universal Disk Format).

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 this page.
• CD-ROMs recorded in PHOTO CD format.
• Data part of CD-Extras.
• DVD Audio discs.
• HD layer on Super Audio CDs.
• DATA DVDs that do not contain MP3 audio tracks, JPEG image files, or DivX video files.
• BDs.
• HD DVDs.
• Discs recorded with an AVCHD-compatible DVD video camera.

Also, the player cannot play the following discs:
• A commercial DVD with a different region code.
• A disc that has a non-standard shape (e.g., card, heart).
• A disc with paper or stickers on it.
• A disc that has the adhesive of cellophane tape or a sticker still left on it.

Region code

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

Commercial DVDs labelled ⊕ALL will also play on this player.

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

Region code
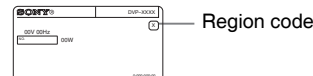
Notes

- **Notes about DVD+RWs/DVD+Rs/DVD+Rs DL, DVD-RWs/DVD-Rs/DVD-Rs DL or CD-Rs/ CD-RWs**

  Some DVD+RWs/DVD+Rs/DVD+Rs DL, DVD-RWs/DVD-Rs/DVD-Rs DL, 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/DVD+Rs DL, 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 DualDiscs**

  A DualDisc is a two sided disc product which mates DVD recorded material on one side with digital audio material on the other side. However, since the audio material side does not conform to the Compact Disc (CD) standard, playback on this product is not guaranteed.

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.

Guide to Parts and Controls

For more information, see the pages indicated in parentheses.

Front panel
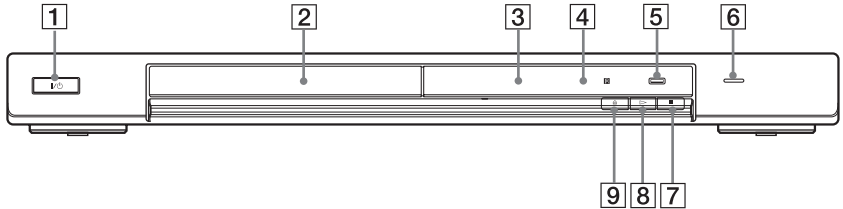
1. **I/**⏻ (on/standby) button (25)

2. Disc tray (25)

3. Front panel display (9)

4. 📶 (remote sensor) (21)

5. PROGRESSIVE button (17)

6. HDMI* (High-Definition Multimedia Interface) indicator (16, 58, 63)
   Lights up when the HDMI OUT jack is correctly connected to a HDCP (High-bandwidth Digital Content Protection) compliant device with HDMI or DVI (Digital Visual Interface) input.

7. ■ (stop) button (26)

8. ▷ (play) button (25)

9. ⏏ (open/close) button (25)

* This DVD player incorporates High-Definition Multimedia Interface (HDMI™) technology.

"HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC."

Rear panel
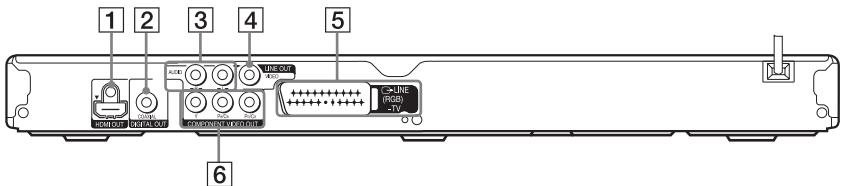
1. HDMI OUT (High-Definition Multimedia Interface out) jack (15)

2. DIGITAL OUT (COAXIAL) jack (19)

3. LINE OUT L/R (AUDIO) jacks (19)

4. LINE OUT (VIDEO) jack (15)

5. LINE (RGB) - TV jack (15)

6. COMPONENT VIDEO OUT jacks (15)

Front panel display

When playing back a DVD

Playing status   Current title/chapter or playing time (28)

Lights up during Repeat Play (33)   Lights up when you can change the angle (26)
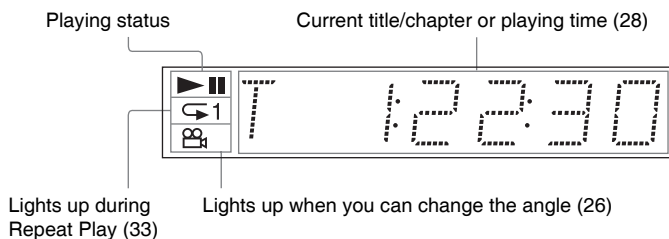
When playing back a VIDEO CD with Playback Control (PBC) (28)

Playing status   Current scene or playing time (28)

Lights up during A-B Repeat Play (33)
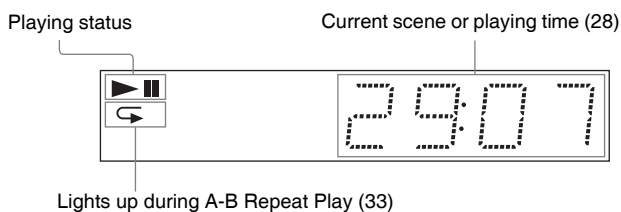
When playing back a CD, DATA DVD (MP3 audio/DivX video), DATA CD (MP3 audio/DivX video), or VIDEO CD (without PBC)

Playing status   Current track* (28)

Lights up during Repeat Play (33)   Playing time (28)
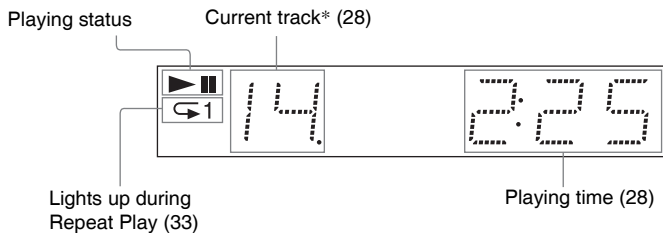
* When playing DivX video files, the current track is not displayed.

Remote

[9] ⏮/⏭ (previous/next) buttons (26)

[10] ◄I ◄◄/►► I► (scan/slow) buttons (40)

[11] ZOOM button (26, 49)

[12] SLOW PLAY/FAST PLAY buttons (26)

[13] ⊚⊚ (audio) button (44)

[14] ⌷ (subtitle) button (26, 50)

[15] I/↺ (on/standby) button (25)

[16] ◢ (volume) +/– buttons (22)
The + button has a tactile dot.*

[17] ⊸ (TV/video) button (22)

[18] PICTURE NAVI (picture navigation) button (43, 49)

[19] TIME/TEXT button (28)

[20] MENU button (27)

[21] ENTER button (23)

[22] DISPLAY button (11)

[23] ▷ (play) button (25)
The ▷ button has a tactile dot.*

[24] ■ (stop) button (26)

[25] II (pause) button (26)

[26] SUR (surround) button (46)

[27] ⊠ (angle) button (26)

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

[1] TV I/↺ (on/standby) button (22)

[2] ⏏ (open/close) button (26)

[3] Number buttons (27)
The number 5 button has a tactile dot.*

[4] CLEAR button (32)

[5] TOP MENU button (27)

[6] ←/↑/↓/→ buttons (27)

[7] ⮌ RETURN (return) button (27)

[8] ←•◄II/II►•→ (replay/step/advance/step) buttons (26, 41)

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 (appears for certain discs only)
↓
Control Menu display off

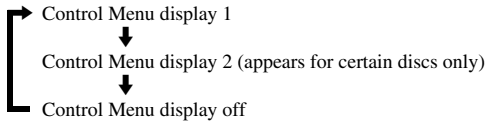## Control Menu display

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

Playing time$*^4$

Current setting

Options

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

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

Function name of selected Control Menu item

Operation message

$*^1$ Displays the scene number for VIDEO CDs (PBC is on), track number for VIDEO CDs/CDs, album number for DATA CDs/DATA DVDs.

$*^2$ Displays the index number for VIDEO CDs, MP3 audio track number, or JPEG image file number for DATA CDs/DATA DVDs. DivX video file number for DATA CDs/DATA DVDs.

$*^3$ Displays Super VCD as "SVCD."

$*^4$ Displays the date for JPEG files.

To turn off the display

Press DISPLAY repeatedly.

List of Control Menu items

Item	Item Name, Function
	TITLE (page 41)/SCENE (page 41)/TRACK (page 41) Selects the title, scene, or track to be played.
	CHAPTER (page 41)/INDEX (page 41) Selects the chapter or index to be played.
	TRACK (page 41) Selects the track to be played.
	TIME/TEXT (page 41) 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 CD/DATA DVD track/file name.
	ORIGINAL/PLAY LIST (page 28) Selects the type of titles (DVD-VR mode) to be played, the ORIGINAL one, or an edited PLAY LIST.
	PROGRAM (page 31) Selects the title, chapter, or track to play in the order you want.
	SHUFFLE (page 32) Plays the title, chapter, or track in random order.
	REPEAT (page 33) Plays the entire disc (all titles/all tracks/all albums) repeatedly or one title/chapter/track/album/file repeatedly.
	A-B REPEAT (page 33) Specifies the parts you want to play repeatedly.
	CUSTOM PICTURE MODE (page 34) Adjusts the video signal from the player. You can select the picture quality that best suits the programme you are watching.
	SHARPNESS (page 36) Exaggerates the outline of the image to produce a sharper picture.
	AV SYNC (page 36) Adjust the delay between the picture and sound.
	PARENTAL CONTROL (page 37) Set to prohibit playback on this player.
	SETUP (page 56) QUICK Setup (page 23) 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.
	ALBUM (page 41) Selects the album that contains MP3 audio track and JPEG image file to be played.
	FILE (page 41) Selects the JPEG image file to be played.
	ALBUM (page 41) Selects the album that contains DivX video file to be played.
	FILE (page 41) Selects the DivX video file to be played.

12

	DATE (page 50) Displays the date the picture was taken by a digital camera.
	INTERVAL (page 51) Specifies the duration for which the slides are displayed on the screen.
	EFFECT (page 52) Selects the effects to be used for changing slides during a slide show.
	MODE (MP3, JPEG) (page 51) Selects the data type; MP3 audio track (AUDIO), JPEG image file (IMAGE), or both (AUTO) to be played when playing a DATA CD or DATA DVD.

ᵇ̆ **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). The "CUSTOM PICTURE MODE" indicator lights up in green when any setting other than "STANDARD" is selected. The "AV SYNC" indicator lights up in green when set to more than 0 ms.

Hooking Up the Player

Follow steps 1 to 5 to hook up and adjust the settings of the player.

Notes
- See "Specifications" (page 68) for a list of supplied accessories.
- 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: Connecting the Video Cords/HDMI Cords

Connect this player to your TV monitor, projector, or audio component such as an 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 audio component.

In order to view progressive signal (525p or 625p) pictures with a compatible TV, projector, or monitor, you must use pattern **C**. Select pattern **B** when connecting to a TV, projector, or audio component equipped with HDMI input.

Hookups

: Signal flow

→ *continued* **15**
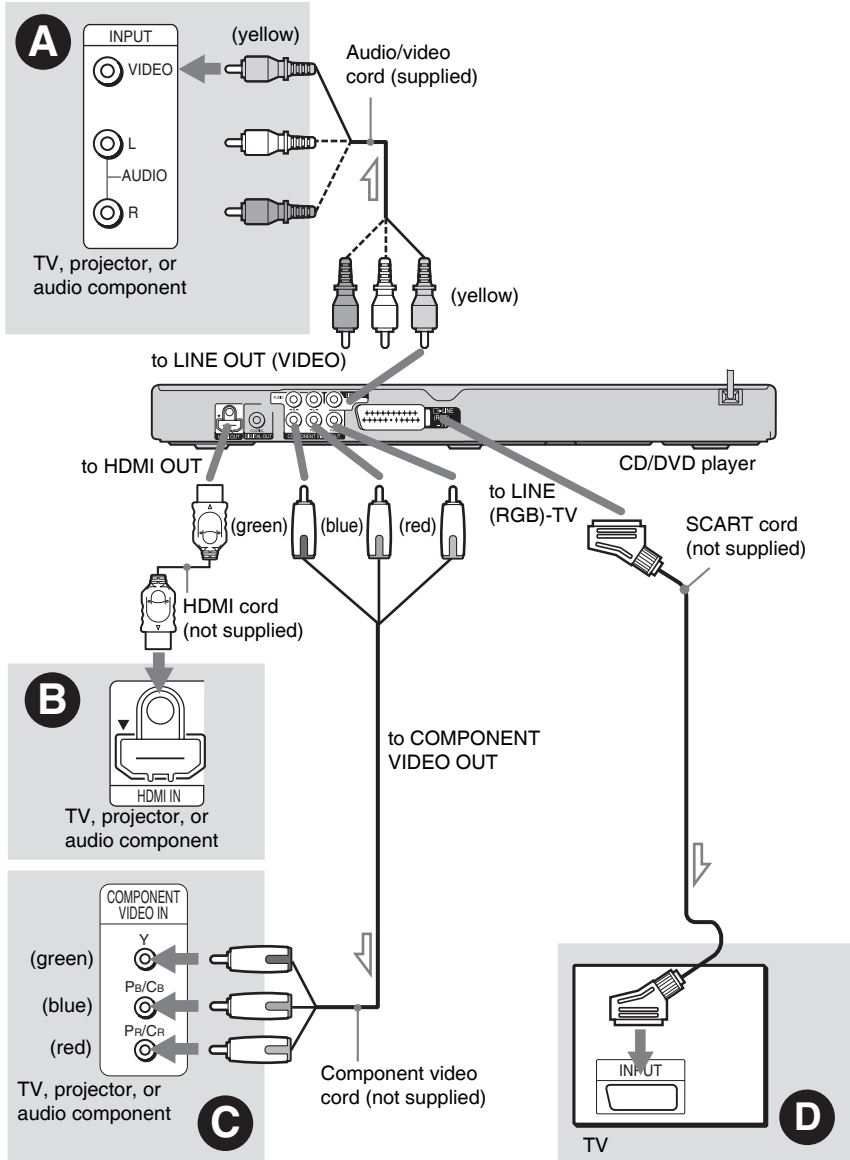
When connecting to a progressive TV, it is recommended that you use only pattern **C**. If you connect to your TV using both **C** and **D**, a special control signal transmitted via the SCART cable may cause the signal to be switched to the SCART jack.

A Video input jack

You will enjoy standard quality images. With this connection, select "NORMAL (INTERLACE)" (default) by pressing the PROGRESSIVE button on the front panel.

B HDMI/DVI input jack

Use a certified Sony HDMI cord to enjoy high quality digital picture and sound through the HDMI OUT jack.

When connecting to a Sony TV that is compatible with the HDMI CONTROL function, see page 17.

When connecting to the HDMI OUT jack

Follow the steps below. Improper handling may damage the HDMI OUT jack and the connector.

1 **Carefully align the HDMI OUT jack on the back of the player and the HDMI connector by checking their shapes.**

Make sure the connector is not upside down or tilted.
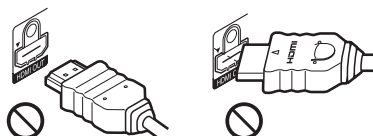
Connector is upside down   Not straight

2 **Insert the HDMI connector straight into the HDMI OUT jack.**

Do not bend or apply pressure to the HDMI connector.
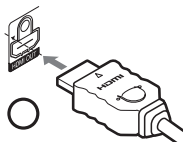
To connect to a TV with DVI input

Use an HDMI-DVI converter cord (not supplied). The DVI jack will not accept any audio signals, so you have to use another audio connection in addition to this connection (page 19). Furthermore, you cannot connect the HDMI OUT jack to DVI jacks that are not HDCP compliant (e.g., DVI jacks on PC displays).

C Component video input jacks (Y, P_B/C_B, P_R/C_R)

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 17).

D SCART input jack

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 (COMPONENT OFF)" under "SCREEN SETUP" in the Setup Display (page 59), 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.

When connecting to a standard 4:3 screen TV

Depending on the disc, the image may not fit your TV screen. To change the aspect ratio, see page 58.

Notes

- Do not connect more than one type of video cord between the player and your TV at the same time.
- Do not use connections **B** and **D** at the same time.
- 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
```
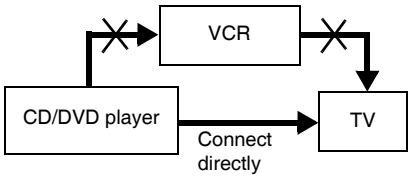
- When you connect the player to your TV via the SCART jacks, the TV's input source is set to the player automatically when you start playback. In this case, press ⊸ (TV/video) on the remote to return the input to the TV.
- If you set "LINE" in SCREEN SETUP to "RGB (COMPONENT OFF)" (page 59), the player outputs no component video signals.
- Be sure to disconnect the HDMI cord when moving the player.
- Do not apply too much pressure to the cabinet wall, if you place the player on the cabinet with the HDMI cord connected. It may damage the HDMI OUT jack or the HDMI cord.
- When connecting or disconnecting, do not screw in or rotate the HDMI connector.

> 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.

About the HDMI CONTROL functions for 'BRAVIA' Theatre Sync (for HDMI connections only)

By connecting to Sony components that are compatible with the HDMI CONTROL function with an HDMI cord (not supplied), you can enjoy the following features:
- One-Touch Play (page 25)
- System-Power Off
  When you turn the TV off by using the I/⏻ button on the TV's remote, the components compatible with HDMI CONTROL function turn off automatically.

To prepare for the 'BRAVIA' Theatre Sync features

Set "HDMI CONTROL" to "ON" in "CUSTOM SETUP" (page 61). For details on TV setting, refer to the operating instructions supplied with the TV.

> **Note**
>
> Depending on the connected component, the HDMI CONTROL function may not work. Refer to the operating instructions supplied with the component.

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.
Each time you press the PROGRESSIVE button, the display changes as follows:

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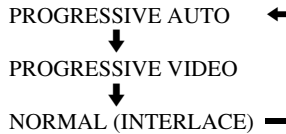
◆PROGRESSIVE AUTO
Select this setting when:
– your TV accepts progressive signals, and,
– the TV is connected to the COMPONENT VIDEO OUT jacks.
Normally select this under the above condition. This automatically detects the software type, and selects the appropriate conversion method.
Note that the picture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

◆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.

17

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)).

◆**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 sitcoms, and displays images at 25 frames/50 fields (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 LINE OUT (VIDEO) jacks are unaffected as they are output in the normal (interlace) format.
• If you set "LINE" in "SCREEN SETUP" to "RGB (COMPONENT OFF)," the player switches to "NORMAL (INTERLACE)." This will happen even though you select "PROGRESSIVE AUTO" or "PROGRESSIVE VIDEO."

Step 2: Connecting the Audio Cords

Select one of the following patterns **A** or **B** according to the input jack on your TV monitor, projector, or audio component such as an AV amplifier (receiver). This will enable you to listen to sound.

to LINE OUT L/R (AUDIO)

to DIGITAL OUT (COAXIAL)/HDMI OUT   CD/DVD player

TV, projector, or audio component

Audio/video cord (supplied)

Coaxial digital cord (not supplied)

HDMI cord (not supplied)

to coaxial/HDMI digital input

[Speakers]
Rear (L)
Front (L)
Centre

Audio component with a decoder

[Speakers]
Rear (R)
Front (R)
Subwoofer
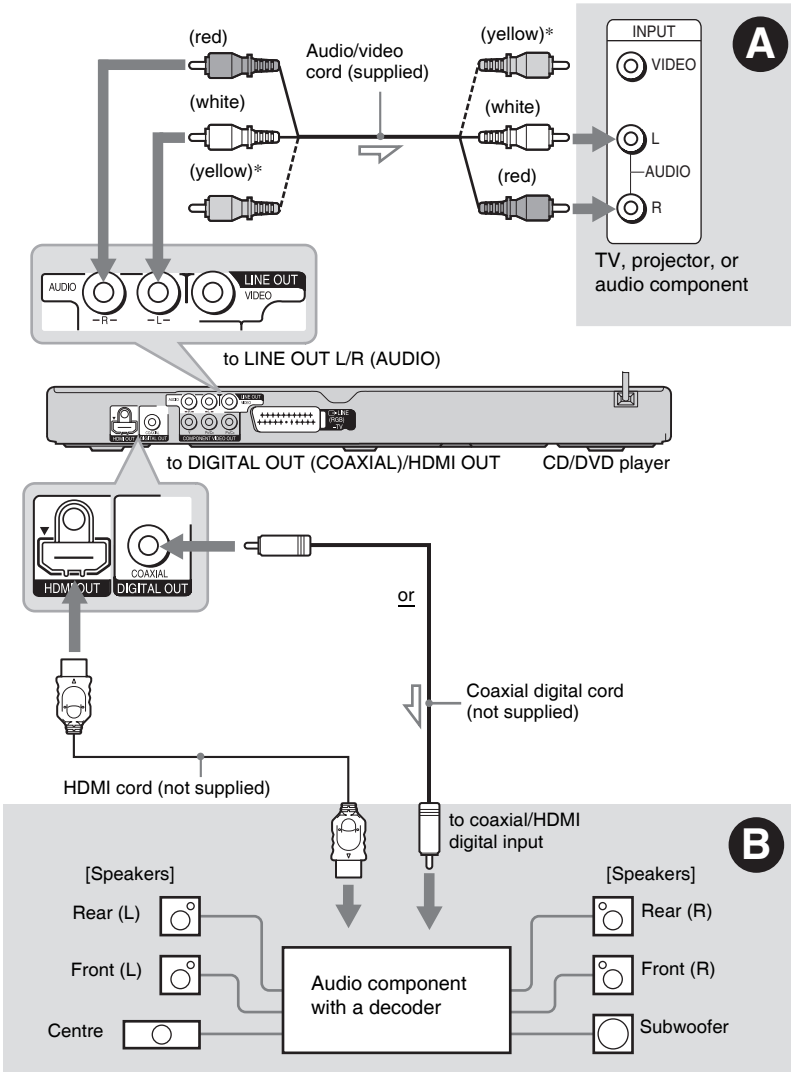
: Signal flow

* The yellow plug is used for video signals (page 15).

☼ Hint

For correct speaker location, see the operating instructions supplied with the connected components.

19

Ⓐ Audio L/R input jacks

This connection will use your TV's or audio component's two speakers for sound.

Ⓑ Digital audio input jack

If your audio component has a Dolby[1] Digital, DTS[2], or MPEG audio decoder and a digital input jack, use this connection. You can enjoy Dolby Digital (5.1ch) and DTS (5.1ch) surround effect.
If you connect to a Sony audio component that is compatible with the HDMI CONTROL function, refer to the operating instructions supplied with the audio component.

[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 registered trademarks of DTS, Inc.

Notes

• After you have completed the connection, be sure to set "DOLBY DIGITAL" to "DOLBY DIGITAL" and "DTS" to "ON" in Quick Setup (page 23). If your audio component has an MPEG audio decoder function, set "MPEG" to "MPEG" in Audio Setup (page 63). Otherwise, no sound or a loud noise will come from your speakers.
• When you connect an audio component that conforms to the 96 kHz sampling frequency, set "48kHz/96kHz PCM" in "AUDIO SETUP" to "96kHz/24bit" (page 63).
• The TVS effects of this player cannot be used with this connection.
• When you connect the player to an audio component using an HDMI cord, you will need to do one of the following:
– Connect the audio component to the TV with the HDMI cord.
– Connect the player to the TV with a video cord other than HDMI cord (component video cord or audio/video cord).
• When connecting to the HDMI OUT jack, carefully align the HDMI connector with the jack. Do not bend and apply pressure to the HDMI cord.

Step 3: Connecting the Mains Lead

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

Step 4: Preparing the Remote

You can control the player using the supplied remote. Insert two R6 (size AA) batteries by matching the ⊕ and ⊖ ends on the batteries to the markings inside the compartment. When using the remote, point it at the remote sensor ▤ on the player.
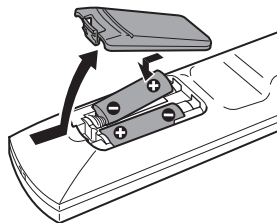
Notes

• Do not leave the remote in an extremely hot or humid place.
• Do not drop any foreign object into the remote casing, particularly when replacing the batteries.
• Do not expose the remote sensor to direct light from the sun or a lighting apparatus. Doing so may cause a malfunction.
• If you do not use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

21

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.

TV **I**/⏻

Number buttons

⚊ +/–

⊸
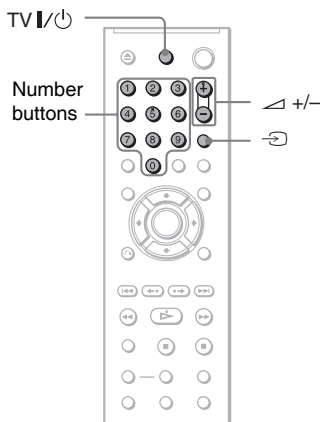
You can control your TV using the buttons below.

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

Note
Depending on the connected unit, you may not be able to control your TV using all or some of the buttons on the supplied remote.

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 your TV's manufacturer's code (see the table below).

2 Release TV **I**/⏻.

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

Manufacturer	Code number
Sony	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
• 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.
• Depending on the connected unit, you may not be able to control your TV using all or some of the buttons on the supplied remote.

Step 5: Quick Setup

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

Hookups

↑/↓

ENTER

|◀◀   ▶▶|
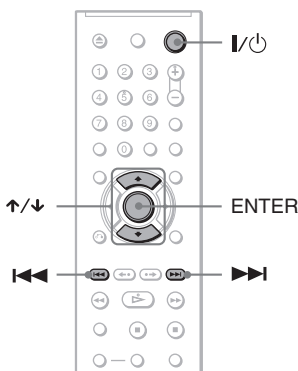
1 Turn on the TV.

2 Press |/(¹).

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 57).

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
                     ▼
```
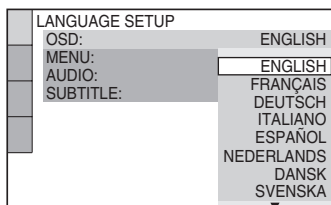
5 Press ↑/↓ to select a language.

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
HDMI RESOLUTION:            16:9
JPEG RESOLUTION:    4:3 LETTER BOX
YCBCR/RGB (HDMI):     4:3 PAN SCAN
SCREEN SAVER:                ON
BACKGROUND:        JACKET PICTURE
LINE:                     VIDEO
4:3 OUTPUT:                FULL
```
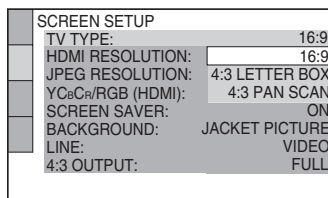
7 Press ↑/↓ to select the setting that matches your TV type.

◆ **If you have a wide-screen TV or a 4:3 standard TV with a wide-screen mode**
• 16:9 (page 58)

◆ **If you have a 4:3 standard TV**
• 4:3 LETTER BOX or 4:3 PAN SCAN (page 58)

➡ *continued* **23**

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
HDMI RESOLUTION:    AUTO (1920×1080p)
JPEG RESOLUTION:         HD
YCBCR/RGB (HDMI):      VIDEO
SCREEN SAVER:        S VIDEO
BACKGROUND:      RGB (COMPONENT OFF)
LINE:                  VIDEO
4:3 OUTPUT:             FULL
```
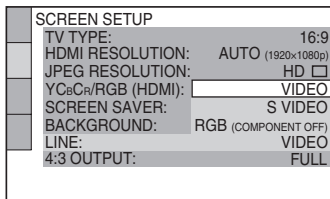
9 Press ↑/↓ to select the type of signal you want to output from the LINE (RGB)-TV jack.

◆ **Video signals**
• VIDEO (page 59)

◆ **S video signals**
• S VIDEO (page 59)

◆ **RGB signals**
• RGB (COMPONENT OFF) (page 59)

10 Press ENTER.

The Setup Display for selecting the type of jack used to connect your audio component 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
```
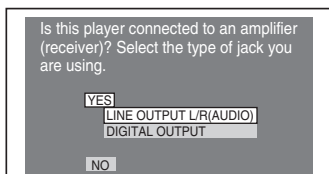
11 Press ↑/↓ to select the type of jack (if any) you are using to connect to an audio component, then press ENTER.

If you did not connect an audio component, select "NO," then go to step 15.
If you connected an audio component using just an audio cord, select "YES: LINE OUTPUT L/R (AUDIO)," then go to step 15.

If you connected an audio component using either digital coaxial cord/HDMI cord, select "YES: DIGITAL OUTPUT."

12 Press ↑/↓ to select the type of Dolby Digital signal you wish to send to your audio component.

If your audio component has a Dolby Digital decoder, select "DOLBY DIGITAL." Otherwise, select "D-PCM."

```
AUDIO SETUP
AUDIO DRC:             STANDARD
DOWNMIX:        DOLBY SURROUND
DIGITAL OUT:               ON
  DOLBY DIGITAL:         D-PCM
  MPEG:                 D-PCM
  DTS:           DOLBY DIGITAL
  48kHz/96kHz PCM:   48kHz/16bit
AUDIO (HDMI):           AUTO
```
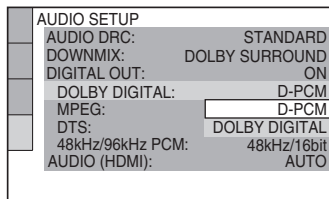
13 Press ENTER.

"DTS" is selected.

```
AUDIO SETUP
AUDIO DRC:             STANDARD
DOWNMIX:        DOLBY SURROUND
DIGITAL OUT:               ON
  DOLBY DIGITAL:         D-PCM
  MPEG:                   PCM
  DTS:                    OFF
  48kHz/96kHz PCM:        OFF
AUDIO (HDMI):             ON
```
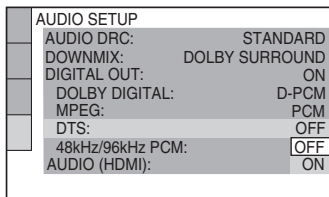
14 Press ↑/↓ to select whether or not you wish to send a DTS signal to your audio component.

If your audio component has a DTS decoder, select "ON." Otherwise, select "OFF."

15 Press ENTER.

Quick Setup is finished and connections are complete.
If your audio component has an MPEG audio decoder, set "MPEG" to "MPEG" (page 63).

Playback

Playing Discs DVDvideo DVDvr
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)

⏏ ▷

Number buttons

CLEAR
TOP MENU
←/↑/↓/→
RETURN
◄•◄II
(replay)
I◄◄

ZOOM
SLOW PLAY

TIME/TEXT

MENU

ENTER
DISPLAY
II►•►
(advance)
►►I
▷

FAST PLAY
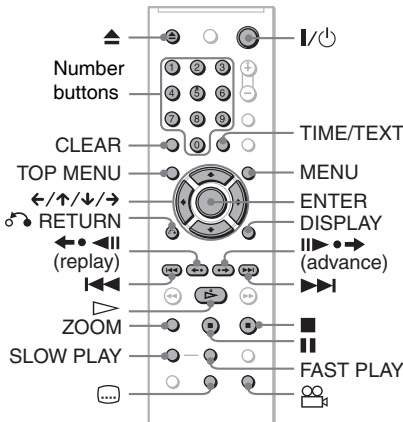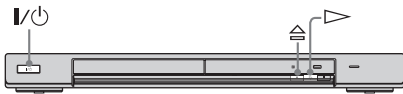
1 Turn on your TV.

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 audio component
Turn on the audio component 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 audio component.
Depending on the disc, a menu may appear on the TV screen. For DVD VIDEOs, see page 27. For VIDEO CDs, see page 28.

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

One-Touch Play (for SCART/HDMI connections only)
With one touch of the ▷ button on the remote, the player and your TV automatically turn on and the TV's input is switched to the player. Playback starts automatically.
The TV's input will also switch to the player automatically, in the following cases:
– You press ▷, TOP MENU, MENU, or DISPLAY buttons on the remote.
  Note that these buttons are not effective when you play audio CD or MP3 audio track in "AUDIO (MP3)" mode.
– If a disc with auto play function is loaded.

✨ Hint
You can have the player turn off automatically whenever you leave it in stop mode for more than 30 minutes. To turn this function on or off, set "AUTO POWER OFF" in "CUSTOM SETUP" to "ON" or "OFF" (page 60).

25

Notes on playing DTS sound tracks on a DVD VIDEO

- DTS audio signals are output only through the DIGITAL OUT (COAXIAL)/HDMI OUT jack.
- When you play a DVD VIDEO with DTS sound tracks, set "DTS" to "ON" in "AUDIO SETUP" (page 63).
- If you connect the player to audio equipment without a DTS decoder, do not set "DTS" to "ON" in "AUDIO SETUP" (page 63). A loud noise may come out from the speakers, affecting your ears or causing the speakers to be damaged.

Note

Discs created on DVD recorders must be correctly finalized before they can be played. For more information about finalizing, refer to the operating instructions supplied with the DVD recorder.

Additional operations

To check the position of the buttons below, see the illustration on page 25.

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 ▲
Change the angle	Press 🎥 (angle) during playback. Press 🎥 (angle) repeatedly to select an angle number.
Display the subtitle	Press 💬 (subtitle) during playback. Press 💬 (subtitle) repeatedly to select a subtitle language.
Replay the previous scene*[1]	Press ◀•◀❚❚ (replay) during playback

To	Operation
Briefly fast forward the current scene*[2]	Press ❚❚▶•▶ (advance) during playback
Magnify the image*[3]	Press ZOOM repeatedly. Press CLEAR to cancel.

*[1] All DVDs except for DVD+Rs/DVD+RWs/ DVD+Rs DL. The button can be used except for DivX video files.

*[2] DVDs 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.

Note

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

Playing quickly or slowly with sound

You can listen to dialogue or sound while playing the current scene quickly or slowly.

During playback, press FAST PLAY or SLOW PLAY.

The speed changes when you press either FAST PLAY or SLOW PLAY.

To return to normal playback

Press ▷.

Notes

- You can only use this function with DVDs, VIDEO CDs, or Super VCDs only.
- "Operation not possible" will appear when maximum or minimum speed is reached.
- During Fast Play and Slow Play mode, you cannot change angle (page 26), subtitle (page 26), and the sound (page 44). The sound can only be changed for VIDEO CDs/Super VCDs.
- Fast Play and Slow Play functions do not work when playing DTS sound tracks.
- You cannot use Fast Play and Slow Play function when playing a still picture in DVD-VR mode.

Locking the disc tray (Child Lock)

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

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

> **Note**
>
> Even if you select "RESET" under "SETUP" in the Control Menu (page 57), the disc tray remains locked.

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

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

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

"RESUME" appears on the front panel display.

2 Press ▷.

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

> ☆ **Hint**
> To play from the beginning of the disc, press ■ twice, then press ▷.

> **Notes**
> • "MULTI-DISC RESUME" in "CUSTOM SETUP" must be set to "ON" (default) for this function to work (page 61).

• The point where you stopped playing is cleared when:
– you change the play mode.
– you change the settings on the Setup Display.
• For DVD-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 mains lead.
– 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.

Using the DVD's Menu DVDVideo

A DVD VIDEO is divided into long sections of a picture or a music feature called "titles." When you play a DVD VIDEO which contains several titles, you can select the title you want using the TOP MENU button. When you play DVD VIDEOs that allow you to select items such as language for the sound and subtitles, select these items using the MENU button.

1 Press TOP MENU or MENU.

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

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

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

🔢 1
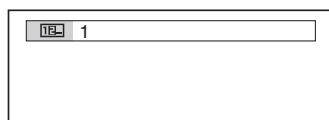
3 Press ENTER.

Selecting "ORIGINAL" or "PLAY LIST" in DVD-VR mode `DVDvr`

Some DVD-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.

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-VR
 T   1:32:55
 PLAY LIST
 PLAY LIST
 ORIGINAL
```
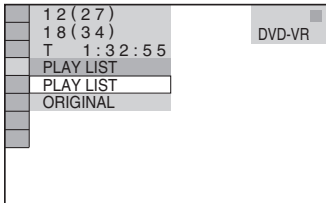
3 Press ↑/↓ to select a setting.

- 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.

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.

※ Hint
To play without using PBC, press ⏮/⏭ or the number buttons while the player is stopped to select a track, then press ▷ or ENTER.
"Play without PBC" appears on the TV screen and the player starts continuous play. You cannot play still pictures such as a menu.
To return to PBC playback, press ■ twice then press ▷.

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 ▷.

Checking the Playing Time and Remaining Time `DVDvideo` `DVDvr` `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.

1 Press TIME/TEXT during playback.

The following display appears.

```
 🕐 | T   1:01:57              ▶

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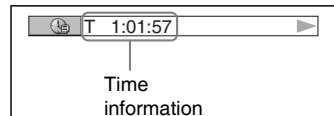
2 Press TIME/TEXT repeatedly to change the time information.

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

◆ **When playing a DVD**
- 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) or DATA DVD (MP3 audio)**
- T ∗:∗ (minutes: seconds)
  Playing time of the current track

◆ **When playing a DATA CD (DivX video) or 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.

To check DATA CD/DATA DVD album name, etc.
By pressing TIME/TEXT while playing MP3 audio tracks 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 track) on your TV screen.

Bit rate∗

[🔁] T 17:30 128k   ▶

JAZZ
RIVER SIDE

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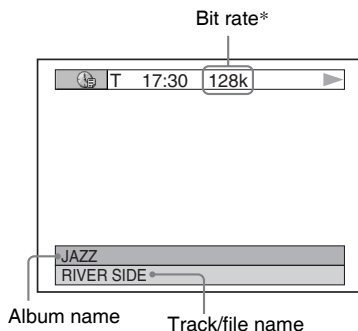
∗ Appears when:
  – playing an MP3 audio track on a DATA CD/
    DATA DVD.
  – playing a DivX video file that contains MP3
    audio on a DATA CD/DATA DVD.

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.

29

When playing a DVD

Playing time of the current title

```
T  1:03:24
```
↓
Remaining time of the current title

```
T- 1:15:36
```
↓
Playing time of the current chapter

```
C  0:22:30
```
↓
Remaining time of the current chapter

```
C- 0:13:20
```
↓
Text

```
SONY HI
```
↓
Current title and chapter number

```
T 16. 8
```
(returns to top automatically)

When playing a DATA CD (MP3 audio) or DATA DVD (MP3 audio)

Playing time and number of the current track
↓
Track name
↓
Current album and track number
(returns to top automatically)

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

Playing time of the current file
↓
The current file name
↓
The current album and file number
(returns to top automatically)

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

Playing time and number of the current track
↓
Remaining time of the current track
↓
Playing time of the disc
↓
Remaining time of the disc
↓
Text

ϔ Hints
- When playing VIDEO CDs without PBC functions, the track number, and the index number are displayed after the text.
- 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 11).

Notes
- Depending on the type of disc being played, the DVD/CD text or track name may not be displayed.
- The player can only display the first level of the DVD/CD text, such as the disc name or title.
- Playing time of MP3 audio tracks and DivX video files may not be displayed correctly.
- If you play a disc containing JPEG image files only, "BGM" appears when "MODE (MP3, JPEG)" is set to "AUTO" or "AUTO (BGM)," and "JPEG" appears when "MODE (MP3, JPEG)" is set to "IMAGE (JPEG)" in the front panel display.

30

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

You can set the following play modes:
• Programme Play (page 31)
• Shuffle Play (page 32)
• Repeat Play (page 33)
• A-B Repeat Play (page 33)

Note

The play mode is cancelled when:
– you eject the disc tray.
– the player enters standby mode by pressing I/(¹).

Creating your own programme (Programme Play) DVDVideo 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), then press ENTER.
The options for "PROGRAM" appear.

```
12(27)
18(34)                    ►
T   1:32:55        DVD VIDEO
OFF
OFF
SET →
ON
```
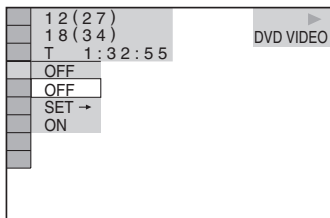
3 Press ↑/↓ to select "SET →," then press ENTER.

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

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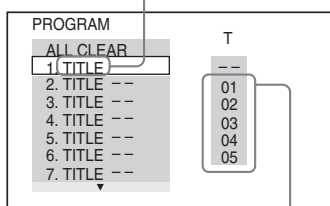
Titles or tracks recorded on a disc

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

```
PROGRAM            T     C
ALL CLEAR
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
```
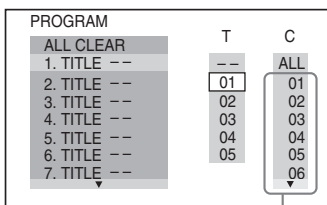
Chapters recorded on a disc

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            T     C
ALL CLEAR
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
```
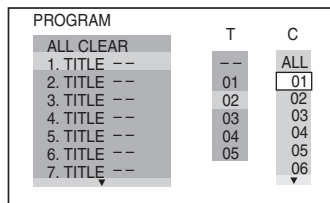
Next, press ↑/↓ to select "03" under "C," then press ENTER.

31

Playback

```
PROGRAM
                                T
ALL CLEAR
1. TITLE  02-03              --
2. TITLE  --                 01
3. TITLE  --                 02
4. TITLE  --                 03
5. TITLE  --                 04
6. TITLE  --                 05
7. TITLE  --
```
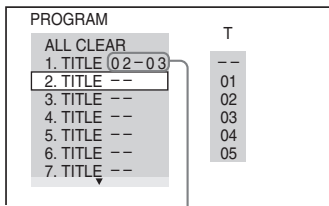
Selected title and chapter

◆ **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)
                                T
ALL CLEAR
1. TRACK  (02)               --
2. TRACK  --                 01
3. TRACK  --                 02
4. TRACK  --                 03
5. TRACK  --                 04
6. TRACK  --                 05
7. TRACK  --
```
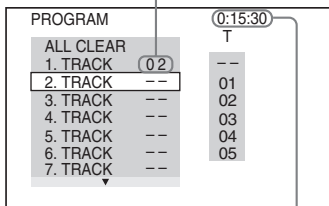
Total time of the programmed tracks

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" in step 3. 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 33) or Shuffle Play (page 32).

Notes

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

Playing in random order (Shuffle Play) DVDVideo VCD CD

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

1 Press DISPLAY during playback.

The Control Menu appears.

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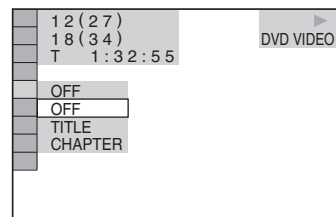
3 Press ↑/↓ to select the item to be shuffled.

◆ **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.

☼ 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 or Super VCDs with PBC playback.

Playing repeatedly (Repeat Play)
DVDVideo **DVD**VR **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.

1 Press DISPLAY during playback.
The Control Menu appears.

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

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


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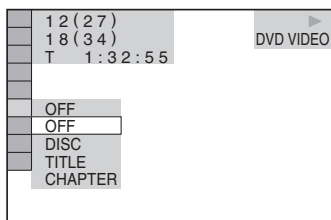
3 Press ↑/↓ to select the item to be repeated.

◆ **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 in DVD-VR mode**
- 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 or 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.

4 Press ENTER.
Repeat Play starts.

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

☼ 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 or Super VCDs with PBC playback.
- When repeating a DATA CD/DATA DVD 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 51), you cannot select "TRACK."

Repeating a specific portion (A-B Repeat Play)
DVDVideo **DVD**VR **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.

33

2 Press ↑/↓ to select ⌐ (A-B) (A-B REPEAT), then press ENTER.

The options for "A-B REPEAT" appear.

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



OFF
SET →
OFF
```
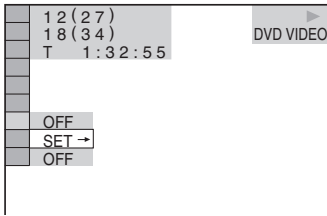
3 Press ↑/↓ to select "SET →," then press ENTER.

The "A-B REPEAT" setting bar appears.

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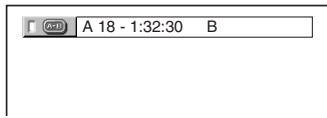
4 During playback, when you find the starting point (point A) of the portion to be played repeatedly, press ENTER.

The starting point (point A) is set.

```
⌐ (A-B)  A 18 - 1:32:30    B 18 - 1:33:05
```
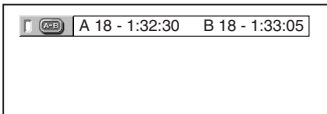
5 When you reach the ending point (point B), press ENTER again.

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 may not set A-B Repeat Play for contents in DVD-VR mode that contains still pictures.

Adjusting the Playback Picture (CUSTOM PICTURE MODE)

DVDvideo **DVDvr** **VCD** **DATA CD**
DATA DVD

You can adjust the video signal of the DVD, VIDEO CD, DATA CD/DATA DVD 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.).

1 Press DISPLAY twice during playback.

The Control Menu appears.

2 Press ↑/↓ to select ⌐ (CUSTOM PICTURE MODE), then press ENTER.

The options for "CUSTOM PICTURE MODE" appear.

```
STANDARD                            ►
STANDARD                DVD VIDEO
DYNAMIC 1
DYNAMIC 2
CINEMA 1
CINEMA 2
MEMORY →
```
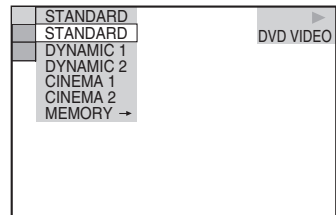
3 Press ↑/↓ to select the setting you want.

The default setting is underlined.
- <u>STANDARD</u>: displays a standard picture.
- DYNAMIC 1: produces a bold dynamic picture by increasing the picture contrast and the colour intensity.
- 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.

4 Press ENTER.

The selected setting takes effect.

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 In step 3 of "Adjusting the Playback Picture," select "MEMORY" and press ENTER.

The "PICTURE" adjustment bar appears.

| PICTURE | ——————┼—————— | 0 |

2 Press ←/→ to adjust the picture contrast.

To go to 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.

Sharpening the Picture

(SHARPNESS)

DVDvideo **DVDvr** **VCD** **DATA CD**
DATA DVD

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

1 Press DISPLAY twice during playback.

The Control Menu appears.

2 Press ↑/↓ to select ▯ ▭ (SHARPNESS), then press ENTER.

The options for "SHARPNESS" appear.

```
┌─────────────┐                    ►
│ OFF         │            DVD VIDEO
├─────────────┤
│ OFF         │
│ 1           │
│ 2           │
└─────────────┘
```
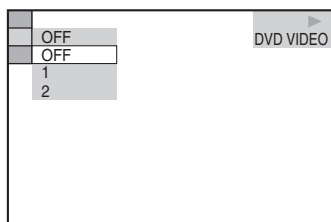
3 Press ↑/↓ to select a level.

- 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.

Adjusting the Delay Between the Picture and Sound (AV SYNC)

DVDvideo **DVDvr** **VCD** **DATA CD**
DATA DVD

When the sound does not match the pictures on the screen, you can adjust the delay between the picture and sound.

1 Press DISPLAY twice during playback.

The Control Menu appears.

2 Press ↑/↓ to select ▯ ▦ (AV SYNC), then press ENTER.

The following display appears.

```
┌─────────────┐                    ►
│             │            DVD VIDEO
├─────────────┤
│ 0 ms        │
│   SET →     │
└─────────────┘
```
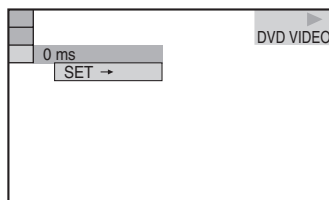
3 Press ↓ to select "SET →", then press ENTER.

The "AV SYNC" adjustment bar appears.

```
┌──────────────────────────────────┐
│                                  │
│                                  │
│ AV SYNC        ├──────      0ms  │
└──────────────────────────────────┘
```

4 Press → repeatedly to adjust the delay.

Each time you press ←/→, the delay is adjusted by 10 milliseconds.

5 Press ENTER.

The selected setting takes effect.

To reset the "AV SYNC" setting
Press CLEAR in step 4.

Notes

- This function is not effective if you use the DIGITAL OUT (COAXIAL) jack, and set "DOLBY DIGITAL," "MPEG" or "DTS" in AUDIO SETUP to "DOLBY DIGITAL," "MPEG" or "ON" respectively (page 62).
- This function is not effective if you connect a Dolby Digital or DTS-compliant device via the HDMI OUT jack, and set "DOLBY DIGITAL," "MPEG" or "DTS" in AUDIO SETUP to "DOLBY DIGITAL," "MPEG" or "ON" respectively (page 62).
- For DATA CDs/DATA DVDs, this function works only for DivX video files.

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

DVDVideo 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.

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.

```
┌─────────────────────────────────────┐
│ ▢  1 2 ( 2 7 )                    ▪  │
│ ▢  1 8 ( 3 4 )          DVD VIDEO    │
│ ▢  T   1 : 3 2 : 5 5                 │
│ ▢                                    │
│ ▢                                    │
│ ▢                                    │
│ ▢                                    │
│    ┌──────────────┐                  │
│    │ OFF          │                  │
│    │ ON →         │                  │
│    │ PLAYER →     │                  │
│    │ PASSWORD →   │                  │
│    └──────────────┘                  │
└─────────────────────────────────────┘
```
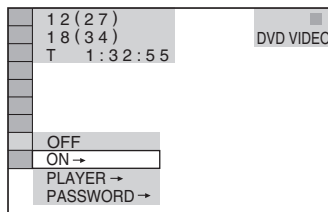
4 Press ↑/↓ to select "ON →," then press ENTER.

◆ 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 .

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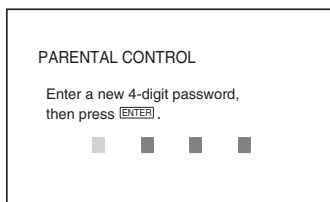
Enter a 4-digit password using the number buttons, then press ENTER. The display for confirming the password appears.

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

The display for entering the password appears.

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.

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 .

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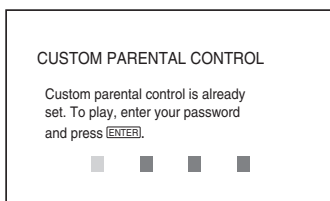
2 Enter your 4-digit password using the number buttons, then press ENTER. The player is ready for playback.

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) DVDVideo

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** [icon] **(PARENTAL CONTROL), then press ENTER.**
The options for "PARENTAL CONTROL" appear.

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




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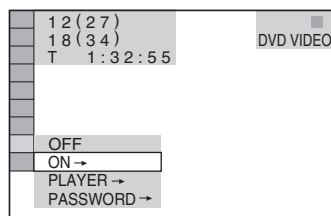
3 **Press ↑/↓ to select "PLAYER →," then press ENTER.**

◆ **If you have not entered a password**
The display for registering a new password appears.
Enter a 4-digit password using the number buttons, then press ENTER.
The display for confirming the password appears.

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

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

The display for setting the playback limitation level appears.

5 Press ↑/↓ to select "STANDARD," then press ENTER.

The selection items for "STANDARD" are displayed.

6 Press ↑/↓ to select a geographic area as the playback limitation level, then press ENTER.

The area is selected.
When you select "OTHERS →," select and enter a standard code in the table on page 69 using the number buttons.

7 Press ↑/↓ to select "LEVEL," then press ENTER.

The selection items for "LEVEL" are displayed.

8 Select the level you want using ↑/↓, then press ENTER.

Parental Control setting is complete.
The lower the value, the stricter the limitation.

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

To play a disc for which Parental Control is set

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

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

☆ Hint
If you forget your password, remove the disc and repeat steps 1 to 3 of "Parental Control (limited playback)." When you are asked to enter your password, enter "199703" using the number buttons, then press ENTER. The display will ask you to enter a new 4-digit password. After you enter a new 4-digit password, 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.

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.

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

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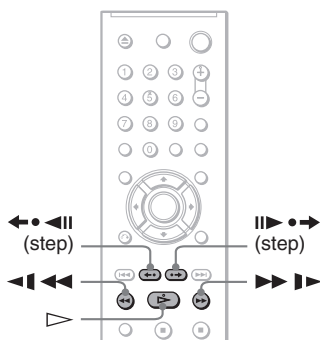
Notes

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

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

DVDVideo **DVDVR** **VCD** **CD** **DATA CD** **DATA DVD**

Press ◄❙ ◄◄ or ►► ❙► while playing a disc. When you find the point you want, press ▷ to return to normal speed. Each time you press ◄❙ ◄◄ or ►► ❙► 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 CD/DATA CD*/DATA DVD* only)
×2► (DVD VIDEO/CD only)

Opposite direction

×2◄ → 1◄◄ → 2◄◄ → 3◄◄

3◄◄ (DVD/VIDEO CD/DATA CD*/DATA DVD* only)
×2◄ (DVD VIDEO only)

* DivX 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◄◄."

Watching frame by frame (Slow-motion Play)

DVDVideo **DVDVR** **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 only)
2 ◄❙ ←→ 1 ◄❙

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

Note

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

Playing one frame at a time (Freeze Frame) `DVDVideo` `DVDVR` `VCD` `DATA CD` `DATA DVD`

When the player is in the pause mode, press
II▶ • ➔ (step) to go to the next frame. Press
◀ • ◀II (step) to go to the preceding frame
(DVD only). To return to normal playback,
press ▷.

Notes

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

Searching for a Title/ Chapter/Track/Scene, etc.

`DVDVideo` `DVDVR` `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, file, 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
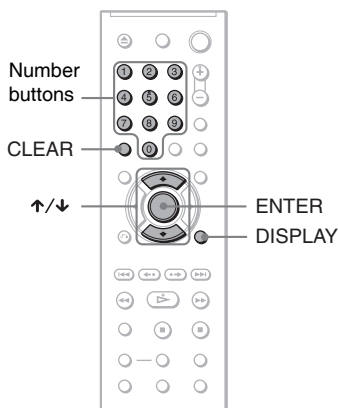
1 Press DISPLAY (When playing a DATA CD or DATA DVD with JPEG image files, press twice).

The Control Menu appears.

2 Press ↑/↓ to select the search method.

◆ When playing a DVD

TITLE

CHAPTER

TIME/TEXT

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

41

◆ **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 only) |
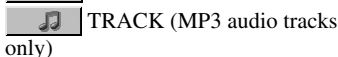
◆ **When playing a DATA CD (DivX video files)/DATA DVD (DivX video files)**

| 🖼 | ALBUM |

| 🎞 | FILE |

Example: when you select | 🎞 | CHAPTER

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

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

Selected row
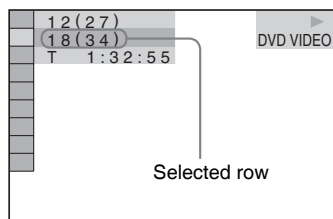
3 **Press ENTER.**

"** (**)" changes to "-- (**)."

```
1 2 ( 2 7 )                    ▶
- - ( 3 4 )          DVD VIDEO
T   1 : 3 2 : 5 5
```
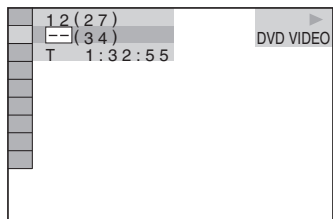
4 **Press the number buttons to select the title, chapter, track, index, scene, etc., number you want to search.**

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 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), track (CD/DATA CD/DATA DVD), 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 43).

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/DVD+R/DVD+R DL using the time code.

Searching by Scene

(PICTURE NAVIGATION) DVDvideo VCD

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

←/↑/↓/→ — PICTURE NAVI / ENTER
⌐⏎ RETURN — DISPLAY
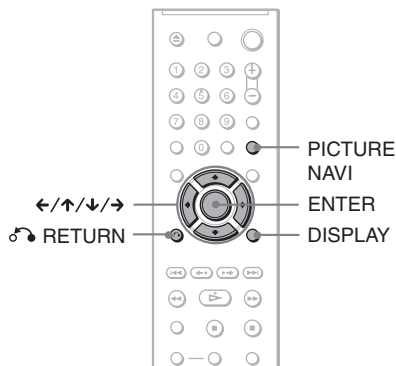
1 Press PICTURE NAVI during playback.

The following display appears.

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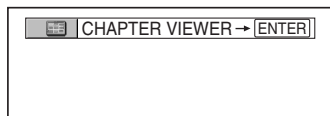
2 Press PICTURE NAVI repeatedly to select an item.

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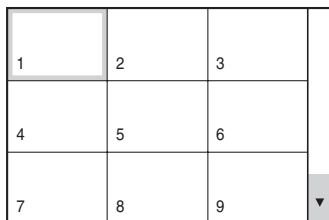
4 Press ←/↑/↓/→ to select a chapter, title, or track, and press ENTER.

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.

Changing the Sound

DVDVideo **DVDVR** **VCD** **CD** **DATA CD**
DATA DVD

When playing a DVD VIDEO or DATA CD (DivX video files)/DATA DVD (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 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.
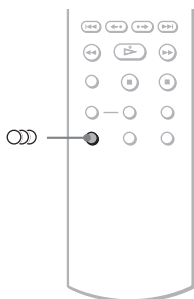
1 Press ◯◯◯ (audio) during playback.

The following display appears.

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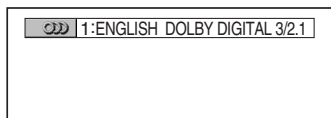
2 Press ◯◯◯ (audio) repeatedly to select the desired audio signal.

◆ **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 69 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 in DVD-VR mode**
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 or CD**
The default setting is underlined.
• STEREO: the standard stereo sound
• 1/L: the sound of the left channel (monaural)
• 2/R: the sound of the right channel (monaural)

◆ **When playing a DATA CD (DivX video) or DATA DVD (DivX video)**
Select one of the displayed audio signal formats. If "No audio data" appears, the player does not support the audio signal format contained in the disc.

◆ **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)

◆ **When playing a DATA CD or DATA DVD**
The player's internal background sound will be played.
The default setting is underlined.
• BGM 1
• BGM 2
• BGM 3
• BGM 4

- 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."
- When playing in DVD-VR mode: If you connect to an audio component using the DIGITAL OUT (COAXIAL)/HDMI OUT jack and want to switch between the sound tracks, set "DOLBY DIGITAL" to "D-PCM" in "AUDIO SETUP" (page 63).
- If "MODE (MP3, JPEG)" is set to "AUTO" or "AUTO (BGM)" (page 51), you can hear the player's internal background sound when MP3 is not played.

Checking the audio signal format DVDvideo DATA CD DATA DVD

You can check the audio signal format by pressing ◯◯ (audio) 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)

LFE (Low Frequency Effect)

◯◯ 1:ENGLISH DOLBY DIGITAL 3 / 2 .1

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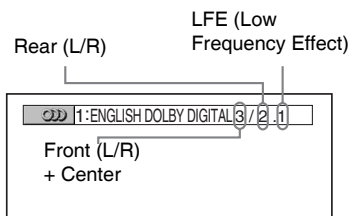
◆**When playing a DivX video file on a DATA CD or a DATA DVD**

Example:
MP3 audio

◯◯ 1: MP3 128k

Bit rate
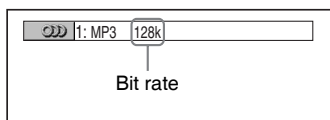
About audio signals

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" (page 63), the DTS track selection option will not appear on the screen even if the disc contains DTS tracks.

TV Virtual Surround Settings (TVS) DVDVideo

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.

This only works when playing a multichannel Dolby audio sound track. Furthermore, if the player is set up to output the signal from the DIGITAL OUT (COAXIAL)/HDMI OUT 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 63).

SUR
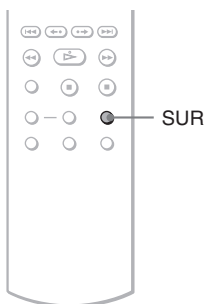
1 Press SUR during playback.

The following display appears.

```
▮ (🔊) TVS DYNAMIC THEATER
```
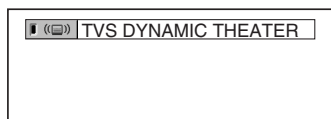
2 Press SUR repeatedly to select one of the TVS sounds.

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

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

◆TVS DYNAMIC THEATER, TVS DYNAMIC, TVS WIDE
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
This feature is useful when you want to hear the dialogue and enjoy the surround sound effects of "TVS WIDE" at low volume.

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

Notes
• When the playing signal does not contain a signal for the rear speakers, the surround effects cannot be heard.
• When you select one of the TVS modes, turn off the surround setting of the connected TV or audio component.
• Not all discs will respond to the "TVS NIGHT" function in the same way.
• 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.
• If you use the DIGITAL OUT (COAXIAL)/ HDMI OUT jack and set "DOLBY DIGITAL" to "DOLBY DIGITAL," "MPEG" to "MPEG," and "DTS" to "ON," in "AUDIO SETUP", sound will come from your speakers but it will not have the SURROUND effect.
• The TVS effects do not work when using the Fast Play or Slow Play functions, even though you can change the TVS modes.

46

About MP3 Audio Tracks and JPEG Image Files

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

DATA CDs/DATA DVDs that the player can play

You can play back DATA CDs or DATA DVDs recorded in MP3 (MPEG-1 Audio Layer III) and JPEG format.
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).
Refer to the instructions supplied with the disc drives and the recording software (not supplied) for details on the recording format.

Note

The player may not be able to play some DATA CDs/DATA DVDs 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/DATA DVDs that contain DivX video files.

About playback order of albums, tracks, and files

Albums play in the following order:

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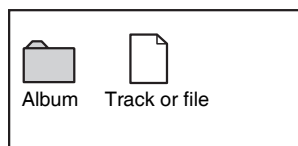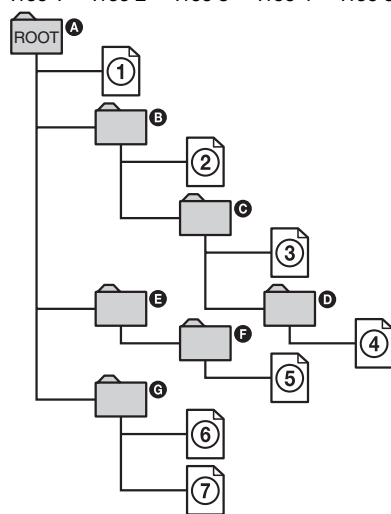
When you insert a DATA CD/DATA DVD and press ▷, the numbered tracks (or files) are played sequentially, from ① through ⑦. Any sub-albums/tracks (or files) contained within a currently selected album take priority over the next album in the same tree. (Example: ● contains ● so ④ is played before ⑤.)

When you press MENU and the list of album names appears, the album names are arranged in the following order:
●→●→●→●→●→●. Albums that do not contain tracks (or files) (such as album ●) do not appear in the list.

☼ 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/DATA DVD, 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 DATA DVD

You can play MP3 audio tracks and JPEG image files on DATA CDs or DATA DVDs.
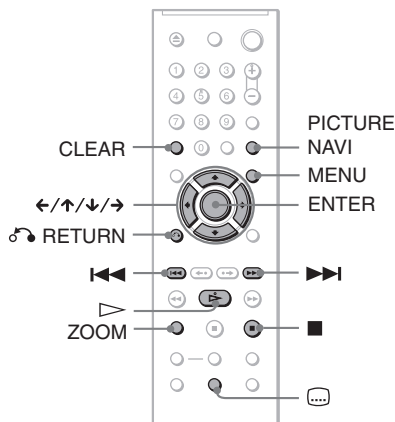
☼ Hint
You can view the disc information while playing MP3 audio tracks (page 28).

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/DATA DVD, "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.

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 49).

To select JPEG image files, see "Selecting a JPEG image file" (page 49).

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 51).

Selecting an MP3 audio track

1 After step 2 of "Selecting an album," press ENTER.
The list of tracks in the album appears.

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 ▶▶I or I◀◀ during playback. You can select the first track of the next album by pressing ▶▶I during playback of the last track of the current album.
Note that you cannot return to the previous album by using I◀◀ , 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 additional images, select a bottom image and press ↓. To return to a previous image, select a top image and press ↑.

2 Press ←/↑/↓/➜ to select the image you want to view, and press ENTER.
The selected image appears.

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.

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.

Enjoying MP3 Audio and JPEG Images

◆**When pressed once (x2)**
The image enlarges twice the original size.

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

To display JPEG image information

Press ⊡ (subtitle) while viewing JPEG image files.
The file name, camera maker/model, date, time, picture resolution, file size, camera setting information (ISO speed rating, Exposure time, F Number, Exposure bias, or Focal length) of the picture are displayed on the screen.

⚡ is displayed when the picture was taken using flash.

▭⋯ is displayed when the image is automatically rotated.
To hide the information, press ⊡ (subtitle).
Note that the above information may not appear depending on the digital camera.

To stop viewing the JPEG image
Press ■.

ϔ **Hints**
- While viewing JPEG image files, you can set options such as "INTERVAL" (page 51), "EFFECT" (page 52), and "SHARPNESS" (page 36).
- You can view JPEG images files without MP3 audio by setting "MODE (MP3, JPEG)" to "IMAGE (JPEG)" (page 51).
- The date the picture was taken is displayed beside "DATE" in the Control Menu (page 11). 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 51).

Enjoying JPEG Images as a Slide Show

DATA CD **DATA DVD**

You can play JPEG image files on a DATA CD or DATA DVD successively as a slide show.
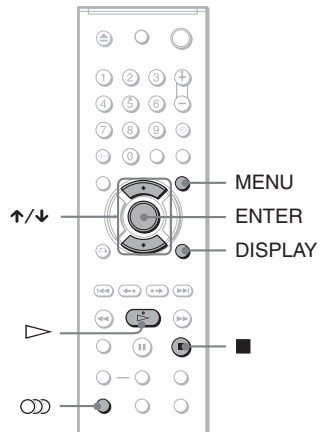
1 Press MENU.

The list of albums on the DATA CD/ DATA DVD appears.

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 ■.

Notes

- 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 51).

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

You can enjoy a slide show with sound.

1 Press DISPLAY during stop mode.

The Control Menu appears.

2 Press ↑/↓ to select 🔲 (MODE (MP3, JPEG)), and press ENTER.

The options for "MODE (MP3, JPEG)" appear.

```
12(27)
18(34)                    DATA CD MP3
T      32:55
AUTO
AUTO
AUTO (BGM)
AUDIO (MP3)
IMAGE (JPEG)
```
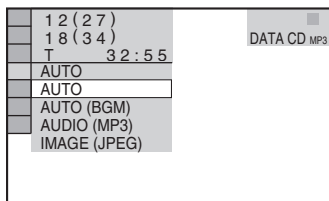
3 Press ↑/↓ to select "AUTO" (default), and press ENTER.

The default setting is underlined.
- <u>AUTO</u>: plays the JPEG image files with MP3 audio tracks. If there is no MP3 file, plays JPEG image files with the player's internal background sound.
- AUTO (BGM): plays the JPEG image files with the player's internal background sound. To choose the melody of the background sound, press ◯◯ (audio) repeatedly while viewing the image. You can enjoy MP3 audio track whenever MP3 track is selected.
- 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/DATA DVD appears.

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.

☼ 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" or "AUTO (BGM)". See "Playing repeatedly (Repeat Play)" (page 33) 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" or "AUTO (BGM)" is selected, 600 MP3 audio tracks when "AUDIO (MP3)" is selected, 600 JPEG image files when "IMAGE (JPEG)" is selected.

Notes
- If you play a disc containing MP3 audio tracks only and "MODE (MP3, JPEG)" is set to "AUTO" or "AUTO (BGM)", you can listen to MP3 audio tracks only.
- If you play a disc containing JPEG image files only, the player's internal background sound will be played when "MODE (MP3, JPEG)" is set to "AUTO" or "AUTO (BGM)".
- If JPEG playback finishes during MP3 playback, MP3 playback continues with background picture.
- If MP3 playback finishes during JPEG playback, player's internal background sound starts.
- 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.

Setting the pace for a slide show (INTERVAL)

You can set the time the slides are displayed on the screen.

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.

51

```
      3 (  12)
      1(    4)                    ■
    29/10/2007            DATA CD JPEG
  NORMAL
  NORMAL
  FAST
  SLOW 1
  SLOW 2
```
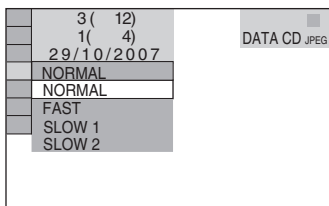
3 Press ↑/↓ to select a setting.

The default setting is underlined.
- <u>NORMAL</u>: sets to standard duration.
- FAST: sets a duration shorter than NORMAL.
- SLOW 1: sets a duration longer than NORMAL.
- SLOW 2: sets a duration longer than SLOW 1.

4 Press ENTER.

Selecting the slides' appearance (EFFECT)

You can select the way the slides are displayed during a slide show.

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)                    ■
    23/10/2007            DATA CD JPEG

  MODE 1
  MODE 1
  MODE 2
  MODE 3
  MODE 4
  MODE 5
  OFF
```
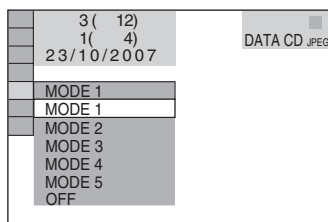
3 Press ↑/↓ to select a setting.

The default setting is underlined.
- <u>MODE 1</u>: the images randomly cycle through the effects.
- MODE 2: the next image slides over the previous image.
- MODE 3: the image sweeps in from top to bottom.
- MODE 4: the image sweeps in from left to right.
- MODE 5: the image stretches out from the center of the screen.
- OFF: turns off this function.

4 Press ENTER.

Note

Note that this setting does not work if the JPEG file has rotation information.

About DivX Video Files

DivX® is a video file compression technology, developed by DivX, 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 and DATA DVDs on this player is subject to certain conditions:
– With DATA CDs/DATA DVDs that contain DivX video files in addition to MP3 audio tracks or JPEG image files, the player plays only the DivX video files.
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).
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 47). 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.

ʕ Hint
For details about playable MP3 audio tracks or JPEG image files on DATA CDs/DATA DVDs, see "DATA CDs/DATA DVDs that the player can play" (page 47).

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 and DATA DVDs.

←/↑/↓/→ — MENU, ENTER

⚡️ RETURN

I◄◄   ►►I

▷

II   ■
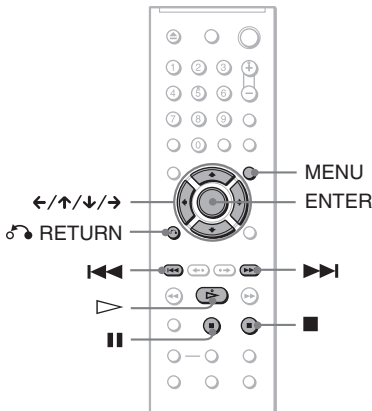
ϔ Hint
You can view the disc information while playing a DivX video file (page 28).

Notes

- If there are no DivX video files recorded on the DATA CD/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.

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 55).

To stop playback
Press ■.

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

To turn the display on or off
Press MENU repeatedly.

Selecting a DivX video file

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

The list of files in the album appears.

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 ⌒ 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.

ʊ̈ 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.

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 57 to 63.

Note

Playback settings stored in the disc take priority over the Setup Display settings and not all of the functions described may work.
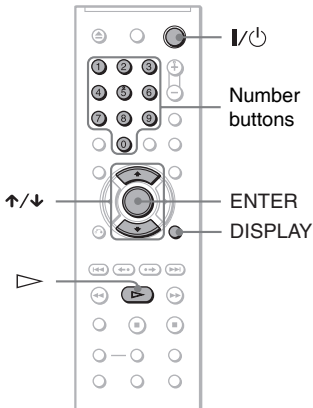
1 **Press DISPLAY when the player is in stop mode.**

The Control Menu appears.

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

The options for "SETUP" appear.
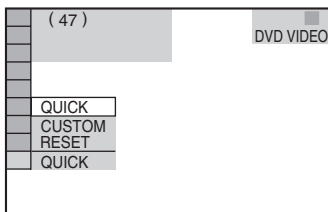
3 **Press ↑/↓ to select "CUSTOM," then press ENTER.**

The Setup Display appears.

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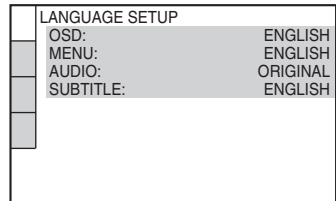
4 **Press ↑/↓ to select the setup item from the displayed list: "LANGUAGE SETUP," "SCREEN SETUP," "CUSTOM SETUP," or "AUDIO SETUP." Then press ENTER.**

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

Selected item

SCREEN SETUP
TV TYPE: 16:9
HDMI RESOLUTION: AUTO (1920×1080p)
JPEG RESOLUTION: HD ☐
YCBCR/RGB (HDMI):   YCBCR
SCREEN SAVER: ON
BACKGROUND: JACKET PICTURE
LINE: VIDEO
4:3 OUTPUT: FULL

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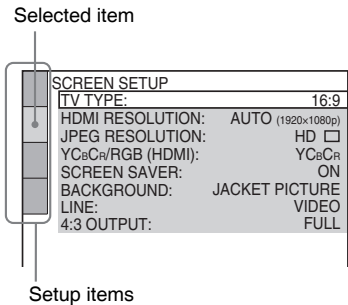
5 **Press ↑/↓ to select an item, then press ENTER.**

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

SCREEN SETUP
TV TYPE: 16:9
HDMI RESOLUTION: 16:9
JPEG RESOLUTION: 4:3 LETTER BOX
YCBCR/RGB (HDMI):   4:3 PAN SCAN
SCREEN SAVER: ON
BACKGROUND: JACKET PICTURE
LINE: VIDEO
4:3 OUTPUT: FULL
                              Options
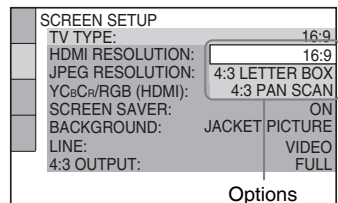
6 Press ↑/↓ to select a setting, then press ENTER.

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

Selected setting

```
SCREEN SETUP
TV TYPE:                    4:3 PAN SCAN
HDMI RESOLUTION:       AUTO (1920×1080p)
JPEG RESOLUTION:              HD ☐
YCBCR/RGB (HDMI):           YCBCR
SCREEN SAVER:                   ON
BACKGROUND:         JACKET PICTURE
LINE:                         VIDEO
4:3 OUTPUT:                    FULL
```
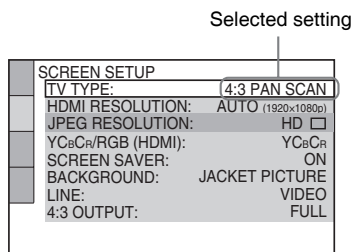
To enter the Quick Setup mode

Select "QUICK" in step 3. Follow from step 5 of the Quick Setup explanation to make basic adjustments (page 23).

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 57 to 63 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 56).

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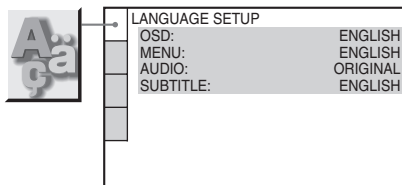
◆ **OSD (On-Screen Display)**
Switches the display language on the screen.

◆ **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.

ٌ̈ Hint
If you select "OTHERS →" in "MENU," "SUBTITLE," or "AUDIO," select and enter a language code from "Language Code List" on page 69 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.

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 56).
The default settings are underlined.

```
SCREEN SETUP
TV TYPE:                          16:9
HDMI RESOLUTION:      AUTO (1920×1080p)
JPEG RESOLUTION:               HD □
YCᴮCᴿ/RGB (HDMI):             YCᴮCᴿ
SCREEN SAVER:                     ON
BACKGROUND:         JACKET PICTURE
LINE:                          VIDEO
4:3 OUTPUT:                     FULL
```
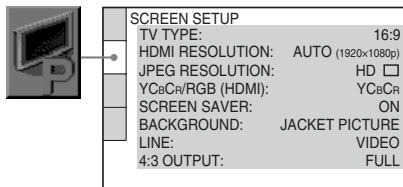
◆ TV TYPE
Selects the aspect ratio of the connected TV (4:3 standard or wide).

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
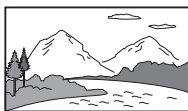
4:3 LETTER BOX

4:3 PAN SCAN

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

◆ HDMI RESOLUTION
Selects the type of video signals output from the HDMI OUT jack. When you select AUTO (1920×1080p) (default), the player outputs video signals of the highest resolution acceptable for your TV. If the picture is not clear, natural or to your satisfaction, try another option that suits the disc and your TV/projector, etc. For details, refer also to the instruction manual supplied with the TV/projector, etc.

AUTO (1920x1080p)	Normally, select this.
1920×1080i	Sends 1920×1080i video signals.
1280×720p	Sends 1280×720p video signals.
720×480/576p	Sends 720×480/576p video signals.

To reset the setting
If the picture does not appear normal or goes blank, press I/ to turn off the player, and enter "369" using the number buttons on the remote, then press I/ to turn on the player again.

Notes
- In case of "AUTO (1920×1080p)," the player automatically adjusts the video signals that are suitable for the TV.
  Other cases, the player directly send the signal even if TV cannot accept.
- When the HDMI indicator on the front panel lights up, images from the LINE OUT (VIDEO) jacks are enlarged vertically. (Except when 720×480/576p is selected).

◆ JPEG RESOLUTION
Selects the type of JPEG resolution so that you can enjoy high picture quality via your HDMI connection.
You cannot select this when "HDMI RESOLUTION" is set to "720×480/576p" or "TV TYPE" is set to "4:3 LETTER BOX" or "4:3 PAN SCAN".

SD □	Displays standard definition picture with black frame.
HD □	Displays high definition picture with black frame.
HD	Displays high definition picture without black frame.
(1920×1080i) HD □	Displays high definition picture with black frame at 1920×1080 pixels.
(1920×1080i) HD	Displays high definition picture without black frame at 1920×1080 pixels.

Notes

- To view the best picture quality, set this setting to "(1920×1080i) HD □" or "(1920×1080i) HD."
- "(1920×1080i) HD □" and "(1920×1080i) HD" are effective only when you set "HDMI RESOLUTION" to "1920x1080i" and "TV TYPE" to "16:9."
- If you set this setting to "(1920×1080i) HD □" or "(1920×1080i) HD," wipe, rotation, and zoom function are not available.
- If you want to use wipe, rotation, and zoom function; sets this setting to "SD □," "HD □," or "HD."
- If you set this setting to "(1920×1080i) HD □" or "(1920×1080i) HD," next image appears after black mute.
- HDMI signal will stop momentarily during loading or unloading DATA CD or DATA DVD disc.

◆ YC$_B$C$_R$/RGB (HDMI)

Selects the type of HDMI signal output from HDMI OUT jack.

YC$_B$C$_R$	Outputs YC$_B$C$_R$ signals.
RGB	Outputs RGB signals.

Notes

- If the playback picture becomes distorted, set "YC$_B$C$_R$" to "RGB."
- If the HDMI OUT jack is connected to equipment with a DVI jack, "RGB" signals will be automatically output even when you select "YC$_B$C$_R$".

◆ 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)/DATA DVD (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)/DATA DVD (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 (COMPONENT OFF)	Outputs RGB signals and no component video 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 (COMPONENT OFF)." Refer to the instructions supplied with your TV.
- If your TV has only one SCART (EURO AV) jack, do not select "S VIDEO."
- When you select "RGB (COMPONENT OFF)," you cannot use the PROGRESSIVE button or the COMPONENT VIDEO OUT jacks.
- You cannot select "RGB (COMPONENT OFF)" when the player outputs progressive signals (page 17).

◆ 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. If you can change the aspect ratio on your TV, change the setting on your TV, not the player.

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.
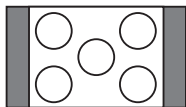
16:9 aspect ratio TV

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 56).
The default settings are underlined.


```
CUSTOM SETUP
AUTO POWER OFF:          ON
AUTO PLAY:               OFF
DIMMER:               BRIGHT
PAUSE MODE:            AUTO
TRACK SELECTION:        OFF
MULTI-DISC RESUME:       ON
DivX:       Registration Code →
HDMI CONTROL:           OFF
LANGUAGE FOLLOW:         ON
```

◆ AUTO POWER OFF

Switches the Auto Power Off setting on or off.

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

◆ AUTO PLAY

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

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

60

◆ PAUSE MODE (DVDs 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 57).
- If you set "DTS" to "OFF" (page 63), 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, MPEG, and Dolby Digital 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 6 different DVD VIDEOs/ VIDEO CDs (page 27).

ON	Stores the resume setting in memory for up to 6 discs.
OFF	Does not store the resume setting in memory. Playback restarts at the resume point only for the current disc in the player.

Note

If you run Quick Setup, Multi-disc Resume settings stored in memory may return to the default settings.

◆ DivX

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

◆ HDMI CONTROL

Switches the HDMI CONTROL setting on or off.

OFF	Switches this function off.
ON	Allows you to use the HDMI CONTROL features (page 17).

◆ LANGUAGE FOLLOW

Switches the languages of the DVD player to the same as the current TV OSD language.
You cannot select this when "HDMI CONTROL" is set to "OFF."

ON	Switches this function on.
OFF	Switches this function off.

Notes

- Turn off any display before using this function.
- The OSD language for player keeps if the TV's language cannot be supported.
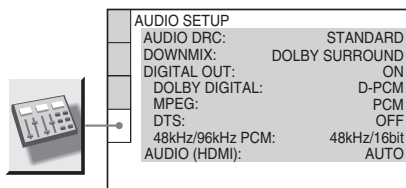
Settings and Adjustments

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 56).
The default settings are underlined.

```
AUDIO SETUP
AUDIO DRC:           STANDARD
DOWNMIX:       DOLBY SURROUND
DIGITAL OUT:              ON
 DOLBY DIGITAL:          D-PCM
 MPEG:                    PCM
 DTS:                     OFF
 48kHz/96kHz PCM:   48kHz/16bit
AUDIO (HDMI):           AUTO
```

◆ AUDIO DRC (Dynamic Range Control) (DVDs 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 (COAXIAL)/HDMI OUT jack only when "DOLBY DIGITAL" is set to "D-PCM" (page 63).

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.

◆ DOWNMIX (DVDs 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 45). This function affects the output of the following jacks:
– LINE OUT L/R (AUDIO) jacks
– LINE (RGB)-TV jack
– DIGITAL OUT (COAXIAL)/HDMI OUT jack when "DOLBY DIGITAL" is set to "D-PCM" (page 63).

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 (COAXIAL)/HDMI OUT 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 analogue circuit is minimal. If you are using the HDMI OUT jack, PCM sound will be output depending on the connected equipment. If the signal is encrypted for copyright protection purposes, the signal is only output as 48 kHz/16 bit PCM.

Setting the digital output signal

Switches the method of outputting audio signals when you connect a component such as an audio component or MD deck with a digital input jack.
For connection details, see page 19.
Select "DOLBY DIGITAL," "MPEG," "DTS," and "48kHz/96kHz PCM" after setting "DIGITAL OUT" to "ON."
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.

Notes
- The AV SYNC function (page 36) is not effective if you use the DIGITAL OUT (COAXIAL) jack, and set "DOLBY DIGITAL," "MPEG" or "DTS" to "DOLBY DIGITAL," "MPEG" or "ON" respectively.
- The AV SYNC function (page 36) is not effective if you connect a Dolby Digital or DTS-compliant device via the HDMI OUT jack, and set "DOLBY DIGITAL," "MPEG" or "DTS" to "DOLBY DIGITAL," "MPEG" or "ON" respectively.

◆ DOLBY DIGITAL (DVDs 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 62).
DOLBY DIGITAL	Select this when the player is connected to an audio component with a built-in Dolby Digital decoder.

Note
If the HDMI OUT jack is connected to equipment not compatible with DOLBY DIGITAL signals, the "D-PCM" signals will be automatically output even when you select "DOLBY DIGITAL."

◆ MPEG (DVDs 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 multi-channel MPEG audio sound tracks, only the Front (L) and Front (R) signals will be output from your two front speakers.
MPEG	Select this when the player is connected to an audio component with a built-in MPEG decoder.

Note
If the HDMI OUT jack is connected to equipment not compatible with MPEG audio signal, the "PCM" signals will be automatically output even when you select "MPEG."

◆ DTS
Selects the type of DTS audio 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.

Note
If the HDMI OUT jack is connected to equipment not compatible with DTS signals, the "OFF" signals will be automatically output even when you select "ON."

◆ 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.

Notes
• 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.
• If the HDMI OUT jack is connected to equipment not compatible with 96 kHz/24 bit signals, 48 kHz/16 bit PCM will be automatically output even when you select "96kHz/24bit."

◆ AUDIO (HDMI)
Selects the type of audio signal output from the HDMI OUT jack.

AUTO	Normally, select this. Outputs audio signals according to the "DIGITAL OUT" settings (page 62).
PCM	Converts Dolby Digital, or 96 kHz/24 bit PCM signals to 48 kHz/16 bit PCM.

Note
A loud noise (or no sound) will be output if you connect the player to a TV that is not compatible with DOLBY DIGITAL/DTS signals and "AUTO" is selected. In this case, select "PCM."

Settings and Adjustments

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 15) 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 59).
➜ 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.
➜ 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 even though your TV cannot accept the progressive signal.
➜ 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 player is set to normal (interlace) format.
➜ If you set "LINE" to "RGB (COMPONENT OFF)" in "SCREEN SETUP" (page 59), the player outputs no component video signals.

➜ The player is connected to an input device that is not HDCP compliant (the HDMI indicator on the front panel does not light up). See page 16.
➜ If the HDMI OUT jack is used for video output, changing the "HDMI RESOLUTION" setting in "SCREEN SETUP" may solve the problem (page 58). Connect the TV and the player using a video jack other than the HDMI OUT, and switch the TV's input to the connected video input so that you can see the on-screen displays. Change the "HDMI RESOLUTION" setting in "SCREEN SETUP," and switch the TV's input back to HDMI. If the picture still does not appear, repeat the steps and try other options.
➜ Press I/⏻ to turn off the player, and enter "369" using the number buttons on the remote, then press I/⏻ to turn on the player again (page 58).

There is no picture or the picture noise appears when connected to the HDMI OUT jack.

➜ Try the following: ①Turn the player off and on again. ②Turn the connected equipment off and on again. ③Disconnect and then connect the HDMI cord again.

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 59).
➜ 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 audio component (page 19).
➜ The audio component 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 (COAXIAL)/HDMI OUT jack, check the audio settings (page 62).
- ➡ 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."
- ➡ When playing multichannel MPEG audio soundtracks, only the Front (L) and Front (R) signal will be output from your two front speakers.
- ➡ The equipment connected to the HDMI OUT jack does not conform to the audio signal format, in this case set "AUDIO(HDMI)" in "AUDIO SETUP" to "PCM" (page 63).

No sound is output from the HDMI OUT jack
- ➡ Try the following: ①Turn the player off and on again. ②Turn the connected equipment off and on again. ③Disconnect and then connect the HDMI cord again.
- ➡ The HDMI OUT jack is connected to a DVI device (DVI jacks do not accept audio signals).

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 62).

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 6).

- ➡ 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 6).

The MP3 audio track cannot be played (page 47).
- ➡ The DATA CD is not recorded in MP3 format that conforms to ISO 9660 Level 1/ Level 2 or Joliet.
- ➡ The DATA DVD is not recorded in MP3 format that conforms to UDF (Universal Disk Format).
- ➡ 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 MPEG-1 Audio Layer III data.
- ➡ The player cannot play audio tracks in mp3PRO format.
- ➡ "MODE (MP3, JPEG)" is set to "IMAGE (JPEG)" (page 51).
- ➡ The DATA CD/DATA DVD contains a DivX video file.

The JPEG image file cannot be played (page 47).
- ➡ The DATA CD is not recorded in JPEG format that conforms to ISO 9660 Level 1/ Level 2 or Joliet.
- ➡ The DATA DVD is not recorded in JPEG format that conforms to UDF (Universal Disk Format).
- ➡ 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 51).
- ➡ The DATA CD/DATA DVD contains a DivX video file.

The MP3 audio tracks and JPEG image files start playing simultaneously.
- ➡ "MODE (MP3, JPEG)" is set to "AUTO" (page 51).

Additional Information

65

The player's internal background sound and JPEG image files start playing simultaneously.

➡ "MODE (MP3, JPEG)" is set to "AUTO (BGM)" (page 51).

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/DATA DVD (DivX video) 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 31).
➡ Resume play has taken effect (page 27).

The player starts playing the disc automatically.

➡ The disc features an auto playback function.
➡ "AUTO PLAY" in "CUSTOM SETUP" is set to "ON" (page 60).

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, Fast Play, Slow Play, 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 27).
➡ 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 27).
➡ 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 27).
➡ 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 9).
➡ 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 67.)

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

➡ Child Lock is set (page 27).

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 MPEG-1 Audio Layer III data.

➜ The JPEG image file format does not conform to DCF (page 47).

➜ 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.

The HDMI CONTROL function does not work.

➜ When HDMI indicator does not light up on the front panel, check the HDMI connection (page 15).

➜ Set the "HDMI CONTROL" setting in "CUSTOM SETUP" to "ON" (page 61).

➜ Make sure that the connected component is compatible with the HDMI CONTROL function. Please refer to the operating instructions of the component for detailed explanation.

➜ If you change the HDMI connection, connect and disconnect the AC power cord (mains lead), or have a power failure, set the "HDMI CONTROL" setting in "CUSTOM SETUP" to "OFF," then set the "HDMI CONTROL" setting in "CUSTOM SETUP" to "ON" (page 61).

Display language on the screen switches automatically.

➜ When "LANGUAGE FOLLOW" is set to "ON" in the "CUSTOM SETUP" (page 61), the display language on the screen automatically switches, according to the language setting of the connected TV, if you change the language settings on your TV, etc.

The DVD player turns on automatically.

➜ HDMI input is selected using TV Interface. Some TV has this function for HDMI CONTROL.

➜ "HDMI CONTROL" in "CUSTOM SETUP" is set to "ON" (page 61).

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.
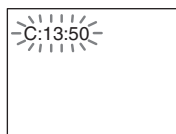
First three characters of the service number	Cause and/or corrective action
C 13	The disc is dirty or recorded in a format that this player cannot play (page 6). ➜ Clean the disc with a cleaning cloth or check its format.
C 31	The disc is not inserted correctly. ➜ Re-insert the disc correctly.
E XX (xx 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

Specifications

System
Laser: Semiconductor laser
Signal format system: PAL/(NTSC)

Audio characteristics
Frequency response: DVD VIDEO (PCM
48 kHz): 2 Hz to 22 kHz (±0.5 dB)/
CD: 2 Hz to 20 kHz (±0.5 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 (COAXIAL): Phono jack/
0.5 Vp-p/75 ohms
HDMI OUT: HDMI 19 pin – Standard
Connector
LINE OUT (VIDEO): Phono jack/1.0 Vp-p/
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: 11 W
Dimensions (approx.):
$430 \times 43 \times 210.4$ mm
(width/height/depth) incl. projecting
parts
Mass (approx.): 1.76 kg
Operating temperature: 5 °C to 35 °C
Operating humidity: 25 % to 80 %

Supplied accessories
Audio/video cord (1)
Remote commander (remote) (1)
R6 (size AA) batteries (2)

Specifications and design are subject to
change without notice.

Language Code List

For details, see pages 44, 57.
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

Parental Control Area Code List

For details, see page 38.

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

Index

Z

ZOOM 26, 49

eco info

Printed on 70% or more recycled paper
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free vegetable oil based ink.

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