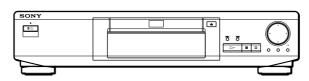
SONY®

CD/DVD Player

Operating Instructions







DVP-S325

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WARNING

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

Mains cord must only be changed at qualified service shop.

CLASS 1 LASER PRODUCT LASER KLASSE 1 LUOKAN 1 LASERLAITE KLASS 1 LASERAPPARAT

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

CAUTION

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

Refer servicing to qualified personnel only.

CAUTION : VISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.
ADVARSEL : SYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING
VORSICHT : SICHTBARE LASERSTRAHLUNG WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETZEN.
VARO ! : NÄKYVÄÄ AVATTAESSA OLET ALTTIINA LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING : Synlig laserstrålning när denna del är öppnad strålen är farlig.
ADVARSEL : SYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
FIGYELEM : A BURKOLAT MEGBONTÁSAKOR LÁTHATÓ LÉZERSUGÁR LÉPHET KI A KÉSZÜLÉKBŐL ÓVAKODJON A KÖZVETLEN LÉZERSUGÁRTÓL !

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

Precautions

Safety

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

Installing

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

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

Welcome!

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About This Manual

Conventions

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

lcon	Meaning				
	Indicates that you can use only the remote to do the task.				
Ý	Indicates tips and hints for making the task easier.				
OVD	Indicates the functions for DVD VIDEOs.				
VIDEO CD	Indicates the functions for VIDEO CDs.				
CD	Indicates the functions for Audio CDs.				

This Player Can Play the Following Discs

	DVD VIDEOs		VIDEO CDs		Audio CDs	
Disc logo					DIGITAL AUDIO TEXT	
Contents	Audio +	Audio + Video		Audio + Video		dio
Disc size	12 cm	8 cm	12 cm	8 cm	12 cm	8 cm (CD single)
Play time	About 4 h (for single-sided DVD)/ about 8 h (for double-sided DVD)	About 80 min. (for single-sided DVD)/ about 160 min. (for double-sided DVD)	74 min.	20 min.	74 min.	20 min.

"DVD VIDEO" logo is a trademark.

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

Region code of DVDs you can play on this unit

- Your DVD player has a region code printed on the back of the unit and will only play DVDs that are labeled with identical region codes.
- DVDs labeled will be also played on this unit.

If you try to play any other DVD, the message "Playing this disc prohibited by area limits." will appear on the TV screen.

Depending on the DVD, no region code indication may be labeled even though playing the DVD is prohibited by the area limits.

Note on playback operations of DVDs and VIDEO CDs

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



Terms for discs

Title

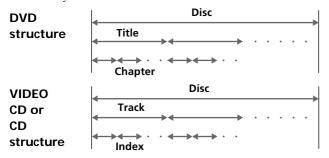
The longest sections of a picture or a music piece on a DVD; a movie, etc., for a picture piece on a video software; or an album, etc., for a music piece on an audio software. Each title is assigned a title number enabling you to locate the title you want.

· Chapter

Sections of a picture or a music piece that are smaller than titles. A title is composed of several chapters. Each chapter is assigned a chapter number enabling you to locate the chapter you want. Depending on the disc, no chapters may be recorded.

Track

Sections of a picture or a music piece on a VIDEO CD or a CD. Each track is assigned a track number enabling you to locate the track you want.



• Index (CD) / Video Index (VIDEO CD)

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

• Scene

On a VIDEO CD with PBC functions, the menu screens, moving pictures and still pictures are divided into sections called "scenes." Each scene is assigned a scene number enabling you to locate the scene you want.

Note on PBC (Playback Control) (VIDEO CDs)

This player conforms to Ver. 1.1 and Ver. 2.0 of VIDEO CD standards. You can enjoy two kinds of playback according to the disc type.

Disc type	You can
VIDEO CDs without PBC functions (Ver. 1.1 discs)	Enjoy video playback (moving pictures) as well as music.
VIDEO CDs with PBC functions (Ver. 2.0 discs)	Play interactive software using menu screens displayed on the TV screen (PBC Playback), in addition to the video playback functions of Ver 1.1 discs. Moreover, you can play high-resolution still pictures, if they are included on the disc.

Discs that the player cannot play

The player cannot play discs other than the ones listed in the table on page 4. CD-R, CD-ROMs including PHOTO CDs, data sections in CD-EXTRAs, DVD-ROMs etc., cannot be played.

When playing DTS*-encoded CDs, excessive noise will be heard from the analog stereo outputs. To avoid possible damage to the audio system, the consumer should take proper precautions when the analog stereo outputs of the DVD player are connected to an amplification system. To enjoy DTS Digital SurroundTM playback, an external 5.1-channel DTS Digital SurroundTM decoder system must be connected to the digital output of the DVD player.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

* "DTS" is a trademark of Digital Theater Systems, Inc.

Precautions

On safety

- Caution The use of optical instruments with this product will increase eye hazard.
- Should any solid object or liquid fall into the cabinet, unplug the player and have it checked by qualified personnel before operating it any further.

On power sources

- The player is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the player itself has been turned off.
- If you are not going to use the player for a long time, be sure to disconnect the player from the wall outlet. To disconnect the AC power cord (mains lead), grasp the plug itself; never pull the cord.
- Should the AC power cord (mains lead) need to be changed, have it done at a qualified service shop only.

On placement

- Place the player in a location with adequate ventilation to prevent heat build-up in the player.
- Do not place the player on a soft surface such as a rug that might block the ventilation holes on the bottom.
- Do not place the player in a location near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock.

On operation

• If the player is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lenses inside the player. Should this occur, the player may not operate properly. In this case, remove the disc and leave the player turned on for about half an hour until the moisture evaporates.

On adjusting volume

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

On cleaning

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

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

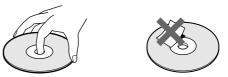
IMPORTANT NOTICE

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

Notes on Discs

On handling discs

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



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

On cleaning

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



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

Getting Started

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

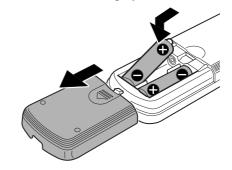
Unpacking

Check that you have the following items:

- Audio/video connecting cord (1)
- S video cord (1)
- Remote commander (remote) RMT-D109P (1)
- Size AA (R6) batteries (2)

Inserting batteries into the remote

You can control the player using the supplied remote. Insert two Size AA (R6) batteries by matching the + and - on the batteries. When using the remote, point it at the remote sensor \blacksquare on the player.



You can control TVs and AV receivers using the supplied remote

See page 51.

Notes

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

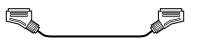
TV Hookups

This connection is for listening to the sound through TV speakers (2ch - L,R). Refer to the instructions supplied with the component to be connected. You cannot connect this player to a TV without an EURO AV (SCART) connector or a video input connector.

Required cords

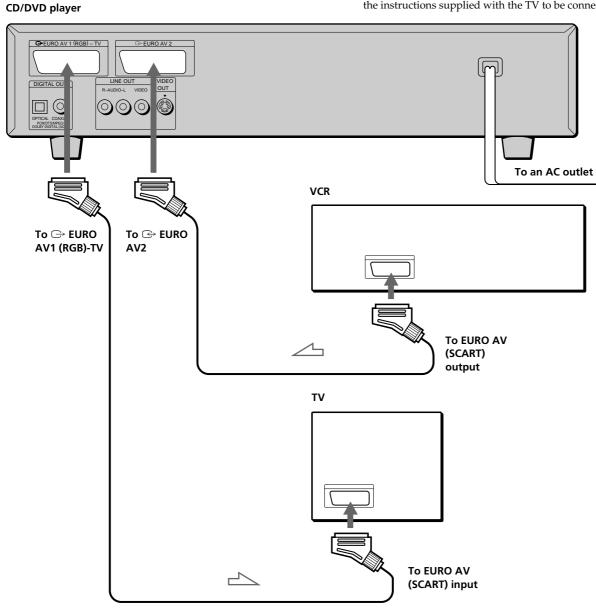
EURO-AV (SCART) connecting cord (not supplied) (2)

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



Notes

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

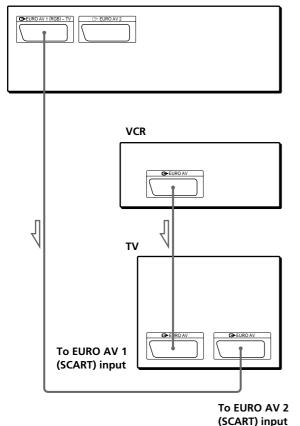


Getting Started

: Signal flow

If your TV has two EURO AV (SCART) connectors

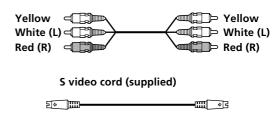
CD/DVD player



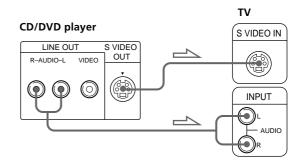
If your TV has no EURO AV (SCART) connectors

You can connect the player to a TV (with audio/video input jacks) using the supplied audio/video connecting cord. If your TV has an S video input connector, connect the component via the S VIDEO OUT connector using the S video cord (supplied) instead of the video connecting cord. You will get a better picture. When connecting the cords, be sure to match the color-coded cord to the appropriate jacks on the components: Yellow (video) to Yellow, Red (right) to Red and White (left) to White.

Audio/Video connecting cord (supplied)



To listen to the sound through TV speakers



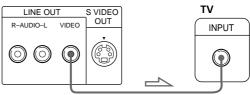
■ If your TV has no S video input connector

Connect the component via the VIDEO INPUT connector using the video connecting cord (not supplied) instead of the S video cord.

Video connecting cord (not supplied)



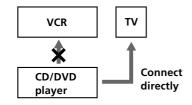
CD/DVD player



TV Hookups

Notes

- Refer to the instructions supplied with the component to be connected.
- Do not connect this player to a video deck. If you view the pictures on your TV after making the connections shown below, a picture noise may appear.



- Depending on the TV or receiver (amplifier), sound distortion may occur because the audio output level is high. In this case, set "AUDIO ATT" in "AUDIO SETUP" to "ON" in the setup display. For details, see page 48.
- If you cannot view the pictures from a VCR through this player which is connected to a TV with RGB, set → 1 to (Audio/Video) on your TV. When you select → (RGB), the TV cannot receive the signal from the VCR.
- If you want to use SmartLink function of a VCR, connect the VCR to a TV with the connector conformed to SmartLink function and connect the CD/DVD player to the TV with another connector.

Setups for the player

Some setups are necessary for the player depending on the TV or other components to be connected. Use the setup display to change the various settings. For details on using the setup display, see page 40.

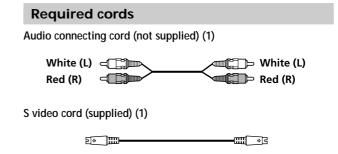
- To connect the player to a wide-storn TV In the setup display, set "TV TYPE" in "SCREEN SETUP" to "16:9" (default setting). For details, see page 44.
- To connect the player to a normal TV In the setup display, set "TV TYPE" in "SCREEN SETUP" to "4:3 LETTER BOX" or "4:3 PAN SCAN." For details, see page 44.
- To connect the player to a TV or VCR via EUROAV connector that conforms to the S video signals or RGB signals

In the setup display, set "EURO AV OUT" in "CUSTOM SETUP" to "S VIDEO" or "RGB." For details, see page 45.

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

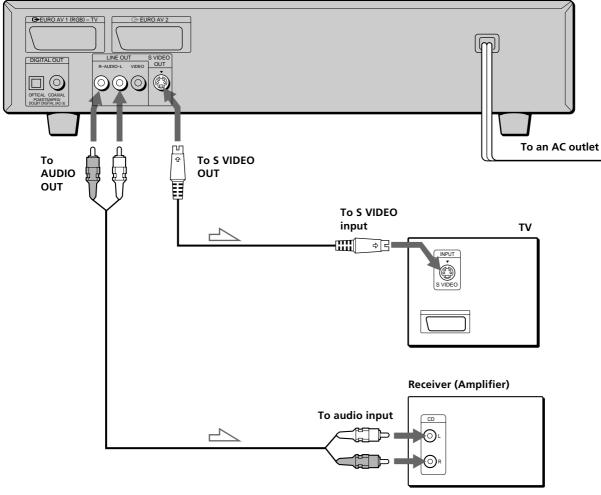
Receiver (Amplifier) Hookups

This connection is for listening to the sound through speakers connected to a receiver. Refer to the instructions supplied with the component to be connected.



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

CD/DVD player



: Signal flow

Note

You cannot enjoy the picture with S video signal if your TV is not conformed to the S video signal. When your TV does not have S VIDEO input, connect the component via the VIDEO INPUT connector using the video connecting cord (not supplied) instead of the S video cord. For details, see page 9. Refer to the instructions supplied with your TV.

If you have a digital component such as a receiver (amplifier) with a digital connector, DAT or MD

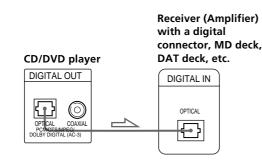
Connect the component via the DIGITAL OUT OPTICAL or COAXIAL connector using an optical or coaxial digital connecting cord (not supplied).

When you play a DVD, set "DIGITAL OUT" in "AUDIO SETUP" to "ON" and then set "DOLBY DIGITAL" to "D-PCM," "MPEG" to "PCM" and "DTS" to "OFF" in the setup display. (page 50)

When using an optical digital connecting cord

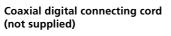
Optical digital connecting cord

Take off the cap and plug in the optical digital connecting cord.



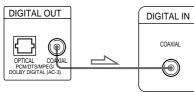
When using a coaxial digital connecting cord

CD/DVD player





Receiver (Amplifier) with a digital connector, MD deck, DAT deck, etc.



Notes

- Refer to the instructions supplied with the component to be connected.
- You cannot make digital audio recordings of discs recorded in multi-channel surround format directly using an MD deck or DAT deck.

When you make the connections above, do not set "DOLBY DIGITAL" to "DOLBY DIGITAL," "MPEG" to "MPEG" and "DTS" to "ON." If you do, a loud noise will suddenly come out from the speakers, affecting your ears or causing the speakers to be damaged.

If you have a digital component with a built-in DTS, Dolby Digital or MPEG decoder

You can enjoy multi-channel surround sound by connecting the component via the DIGITAL OUT OPTICAL or COAXIAL connector using an optical or coaxial digital connecting cord (not supplied). For details on hookups and settings, see page 13.

Setups for the player

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

Use the setup display to change the various settings. For details on using the setup display, see page 40.

• To listen to the sound through speakers connected to a receiver (amplifier) having a digital connector or to output the sound to a digital component such as a DAT or MD deck

When you play a DVD, set "DIGITAL OUT" in "AUDIO SETUP" to "ON" and then set "DOLBY DIGITAL" to "D-PCM," "MPEG" to "PCM" and "DTS" to "OFF" in the setup display (page 50). These are the default settings.

Getting Started

5.1 Channel Surround Hookups

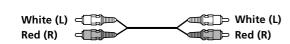
With DVDs which contain DTS, Dolby* Digital or MPEG AUDIO sound, you can enjoy the surround sound while producing the effect of being in a movie theater or a concert hall, using a digital component with a built-in DTS, Dolby Digital or MPEG decoder (not supplied). The player outputs the surround sound signals from the DIGITAL OUT OPTICAL and COAXIAL connectors.

Note

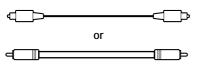
When a DVD has a sound track with 7.1 channels recorded in MPEG AUDIO format, the output audio signals are mixed down to 5.1 channels.

Required cords

Audio cords (not supplied) One for the LINE OUT AUDIO jacks



Optical or coaxial digital cord (not supplied) One for the DIGITAL OUT jacks



S video cord (supplied)

One for the S VIDEO OUT jacks



Connect the component via the DIGITAL OUT OPTICAL or COAXIAL connector using an optical or coaxial digital connecting cord (not supplied). You do not need to connect both of these cords. See the figure on the next page.

Notes

- Do not connect the power cord to an AC outlet or press the POWER switch before completing all connections.
- Refer to the instructions supplied with the component to be connected.
- The cord connectors should be fully inserted into the jacks. Loose connection may cause hum and noise.
- Jacks and plugs of the connecting cords are color-coded as follows:

Red jacks and plugs: Right audio channel White jacks and plugs: Left audio channel

Setups for the player

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

Use the setup display to change the various settings. For details on using the setup display, see page 40.

- When you play a DVD that is recorded in DTS format Set "DIGITAL OUT" in "AUDIO SETUP" to "ON" and then set "DTS" to "ON" in the setup display. (page 50)
- When you play a DVD that is recorded in Dolby Digital format

Set "DIGITAL OUT" in "AUDIO SETUP" to "ON" and then set "DOLBY DIGITAL" to "DOLBY DIGITAL" in the setup display. (page 50)

• When you play a DVD that is recorded in MPEG format

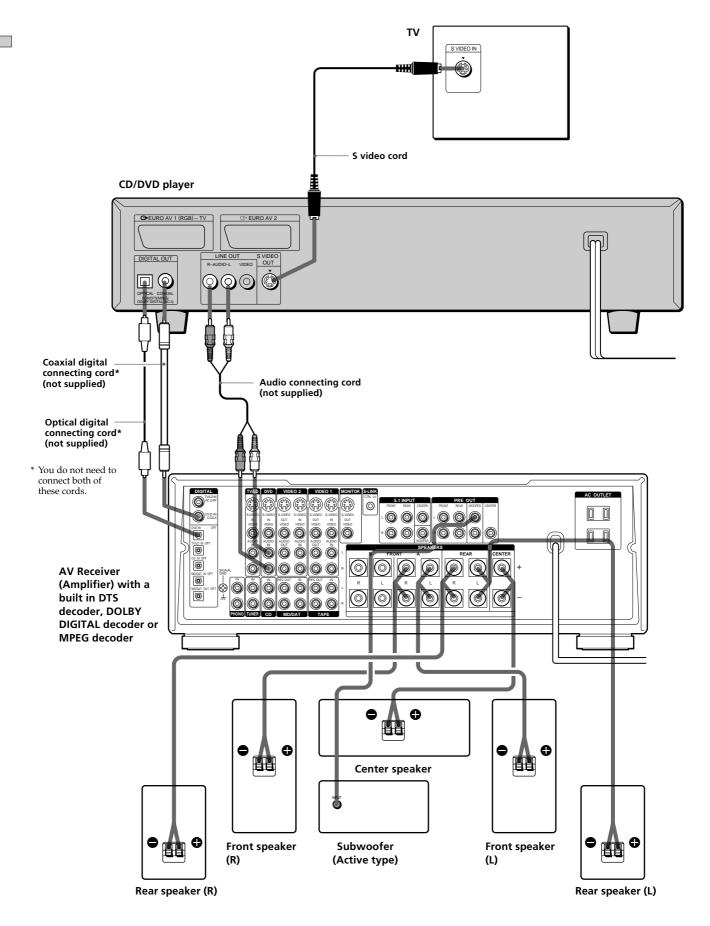
Set "DIGITAL OUT" in "AUDIO SETUP" to "ON" and then set "MPEG" to "MPEG" in the setup display. (page 50)

Notes

- Refer to the instructions supplied with the component to be connected.
- When you do not connect an audio component with a built in DTS decoder, do not set "DTS" to "ON."
- When you do not connect an audio component with a built in DOLBY DIGITAL decoder, do not set "DOLBY DIGITAL" to "DOLBY DIGITAL."
- When you do not connect an audio component with a built in MPEG decoder, do not set "MPEG" to "MPEG."

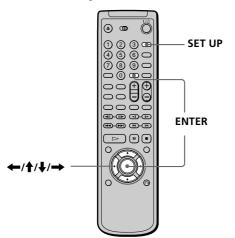
* Manufactured under license from Dolby Laboratories.
 "Dolby", "AC-3", "Pro Logic" and the double-D symbol DD are trademarks of Dolby Laboratories.
 Confidential Unpublished Works. ©1992-1997 Dolby Laboratories, Inc. All rights reserved.

5.1 Channel Surround Hookups

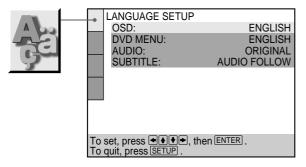


Selecting the Language for On-Screen Display

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



 Press SET UP and select "LANGUAGE SETUP" using ↑/↓, and then pess ENTER.



2 Select "OSD" using \uparrow/\downarrow , then pess \rightarrow or ENTER.

	LANGUAGE SETUP		
	OSD:	ENGLISH	
	DVD MENU:	ENGLISH	
	AUDIO: SUBTITLE:	FRANÇAIS	
	SUBITILE.	DEUTSCH	
		ITALIANO	
		ESPAÑOL	
	1	NEDERLANDS	
		DANSK	
		•	
To set, press ••••, then ENTER . To quit, press SETUP.			

3 Select "FRANÇAIS" using \uparrow/\downarrow , then pess ENTER.

CHOIX DE LA LANGU			
ECRANS:	FRANÇAIS		
MENU DVD : AUDIO:	ENGLISH		
SOUS-TITRE:	IDEM AUDIO		
Pour le réglage, appuyez sur ●●●, puis sur ENTER]. Pour quitter, appuyez sur SETUP.			
sur ENTER . Pour quitter, an	opuyez sur SETUP.		

To cancel using the setup display on the way Press SET UP.

Note

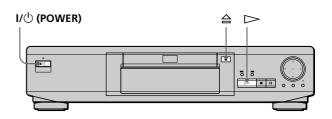
The languages you can select are the ones displayed in step 2. For details, see page 43.

Playing Discs

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

This player conforms to the PAL color system. When you play a disc recorded in the NTSC color system, the player outputs the video signal or the setup display etc. in the NTSC color system and the picture may not appear on the TV screen. In this case, open the disc tray and remove the disc. Playing Discs OVD (19) CD

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



1 Make settings on your TV.

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

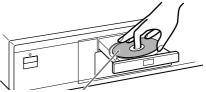
When using a receiver (amplifier)

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

2 Press I/(¹) (POWER) to turn on the player.

The indicator (red) above the I/\bigcirc (POWER) button changes to green and the front panel display lights up.

3 Press \Leftrightarrow and place the disc on the disc tray.



With the playback side facing down

4 Press ⊳

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

After following Step 4

■When playing a DVD

A DVD menu or title menu may appear on the TV screen (see page 20).

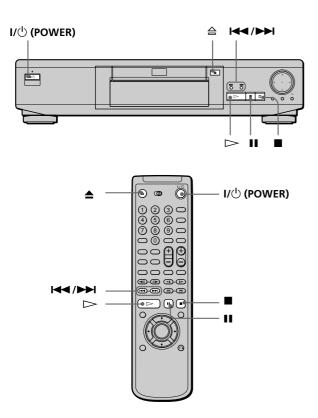
■When playing a VIDEO CD

The menu screen may appear on the TV screen depending on the VIDEO CD. You can play the disc interactively, following the instructions on the menu screen. (PBC Playback, see page 21.)

You can turn on the player using the remote Press I/\bigcirc (POWER) when the indicator above the I/\bigcirc (POWER) button on the front panel is lit in red.

Notes

- If you leave the player or the remote in pause or stop mode for 15 minutes, the screen saver image appears automatically. To make the screen saver image go away, press >(If you want to set the screen saver function to off, see page 44.)
- The indicator above the I/\bigcirc (POWER) button lights up in red when the power is turned off.
- If you don't operate the player or the remote for more than 30 minutes when a disc is not being played, the power is automatically turned off. (Auto Power Off function)

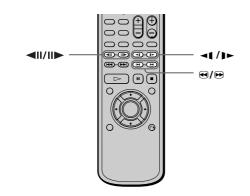


То	Operation
Stop	Press ■.
Pause	Press II .
Resume play after pause	Press \blacksquare or \triangleright .
Go to the next chapter, track or scene in continuous play mode	Press ►►I.
Go back to the preceding chapter, track or scene in continuous play mode	Press I◀◀ .
Stop play and remove the disc	Press ▲.

You can play discs in various modes such as Program Play using the on-screen menu (Control Menu). For operations of Control Menu, see page 24.

Searching for a particular point on a disc 👔 🖤 🍩 🗰

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



Note

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

Locating a point quickly by playing a disc fast forward or fast reverse (Speed scan)

Press Gor Dewhile playing a disc. When you find the point, press De return to the normal speed. Each time you press the Gor Debutton during Speed scan, the playback speed changes. Two speeds are available. With each press, the indication changes as follows:

$1 \blacktriangleright \blacksquare \blacksquare$	2►€playback direction)
1◀◀↔	2 ◄ opposite direction)

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

You can use this function only for DVDs or VIDEO CDs. Press ◄ or ▶ while playing a disc. When you find the point, press ▷ to return to the normal speed. Each time you press the ◄ or ▶ button during Slowmotion play, the playback speed changes. Two speeds are available. With each press, the indication changes as follows:

 $1 \mapsto \iff 2 \mapsto \text{ (playback direction)} \\ 1 \blacktriangleleft \iff 2 \blacktriangleleft \text{ (opposite direction – DVD only)}$

The playback speed of $2 \triangleright / 2 \triangleleft i$ is slower than $1 \triangleright / 1 \triangleleft i$.

Playing a disc frame by frame

You can use this function only for DVDs or VIDEO CDs. Press **◄II** or **IIÞ** while playing a disc. To return to normal playback, press ▷

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

The player stores the point where you stopped the disc and if "RESUME" appears on the front panel display. You can resume playback from that point.

As long as you do not open the disc tray, Resume Play is available even if you turn the power off.

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

"RESUME" appears in the front panel display and "When playing next time, disc restarts from point you stopped." appears on the TV screen.

If "RESUME" does not appear, Resume Play is not available.

2 Press ⊳

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

$\ddot{\mathbf{Y}}$ To play from the beginning of the disc

When the playing time appears on the front panel display before you start playing, press \blacksquare to reset the playing time, then press \triangleright .

Notes

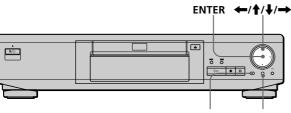
- Resume Play may not be available depending on the DVD.
- Resume Play is not available in Shuffle or Program Play mode.
- Depending on where you stopped the disc, the player may resume playback from a different point.
- The point where you stopped playing is cleared when:
- you open or close the disc tray
- you disconnect the AC power cord
- you change the play mode
- you start playback after selecting a title, chapter or track

- you change the settings of "TV TYPE" in "SCREEN SETUP" in the setup display
- you change the settings of "PARENTAL CONTROL" in "CUSTOM SETUP" in the setup display

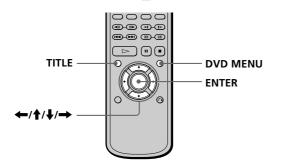
Using the Menu for Each DVD 🖤

Using the title menu

A DVD is divided into long sections of a picture or a music piece called "titles." When you play a DVD which contains several titles, you can select the title you want using the title menu.



TITLE DVD MENU



1 Press TITLE.

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

2 Press ←/↑/↓/→ to select the title you want to play.

Depending on the disc, you can use the number buttons to select the title.

3 Press ENTER.

The player starts playing the selected title.

Notes

- Depending on the DVD, you may not be able to select the title.
- Depending on the DVD, a "title menu" may simply be called a "menu" or "title " in the instructions supplied with the disc. "Press ENTER." may also be expressed as "Press SELECT."

Using the DVD menu

Some DVDs allow you to select the disc contents using the menu. When you play these DVDs, you can select the language for the subtitles, the language for the sound, etc., using the DVD menu.

1 Press DVD MENU.

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

2 Press ←/↑/↓/→ to select the item you want to change.

Depending on the disc, you can use the number buttons to select the item.

3 To change other items, repeat Step 2.

4 Press ENTER.

V If you want to select the language for the DVD menu Change the setting using "LANGUAGE SETUP" in the setup display. For details, see page 43.

Note

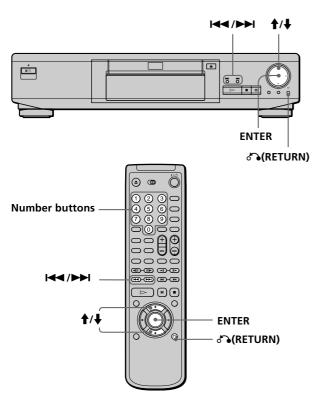
Depending on the DVD, a "DVD menu" may simply be called a "menu" in the instructions supplied with the disc.

Playing VIDEO CDs with PBC Functions (PBC Playback)

When playing VIDEO CDs with PBC functions (Ver. 2.0 discs), you can enjoy simple interactive operations, operations with search functions, etc.

PBC Playback allows you to play VIDEO CDs

interactively, following the menu screen on the TV screen. On this player, you can use the number buttons, ENTER, I→→→↑ /↓ and demonstration during PBC Playback.



- **1** Start playing a VIDEO CD with PBC functions, following Steps 1 to 4 in "Playing Discs" on page 16.
- 2 Select the item number you want. On the player
 Press ↑/↓ to select the item number.
 On the remote

Press the number button of the item you want.

- **3** Press ENTER.
- 4 Follow the instructions on the menu screen for interactive operations.

Refer to the instructions supplied with the disc, as the operating procedure may differ according to the VIDEO CD.

Going back to the menu screen Press ♂↓ I ◄ or ►►I

When playing VIDEO CDs with PBC functions PBC playback starts automatically.

 $\overleftrightarrow{\mathbf{V}}$ To cancel PBC playback of a VIDEO CD with PBC functions and play the disc in continuous play mode

There are two ways.

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

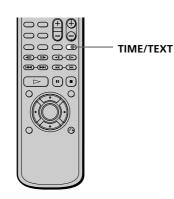
To return to PBC playback, press \blacksquare twice then press \triangleright

Note

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

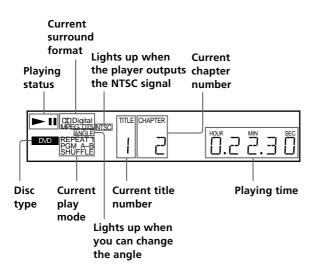
Using the Front Panel Display 👔 🖤 🍩 🚥

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



When playing back a DVD DVD

Display information while playing the disc



Checking the remaining time

Press TIME/TEXT.

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

Playing time and number

of the curr	ent chapter	
	TITLE CHAPTER	
DVD	12	0.2 2.3 0 (
Remaining	time of	Press TIME/TEXT
the curren	t chapter	
	TITLE CHAPTER	
DVD	1 2	
Playing tin the curren	ne and number of t title	Press TIME/TEXT
	TITLE	
DVD	1	
Remaining the curren		Press TIME/TEXT
	TITLE	
DVD		- 1. 15.36
Text		Press TIME/TEXT
►		
DVD	50Ny	H IT5/5
		Press TIME/TEXT

Notes

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

When playing back a CD/VIDEO CD

Display information while playing a disc

Lights up during PBC playback (VIDEO CD only) Lights up when the Playing player outputs the NTSC status signal Music Calendar* 2 3 4 5 6 7 8 9 10 11 12 13 14 15 ► - 11 NTSC TRACK INDEX 5 M A-B Disc type Current Current Current index Playing time track number play mode number

* Track numbers are displayed in the Music Calendar. When there are over 15 tracks, ▶is displayed after "15." The track number disappears after playing.

When playing VIDEO CDs with PBC functions

The current scene number is displayed instead of the current track number and the current index number. In this case, the front panel display does not change when you press TIME/ TEXT. If a TEXT is recorded on the disc, the front panel display changes to Text display when you press TIME/TEXT (see page 29).

Checking the remaining time

Press TIME/TEXT.

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

Playing time and number of

the current track

						-
CD		23456789			14 15 ►	¢
Remaining tim current track	e of the	1	Pr	ess T	IME/TE	хт
	TRACK INDEX	23456789				
CD	21			١.	50	
Playing time o	f the disc	1	Pro	ess T	IME/TE	хт
		23456789				
CD			3	2.		
Remaining tim	e of the disc	\mathbf{V}	Pro	ess T	IME/TE	хт
		23456789				
CD			2	<u>□</u> .		
Text		$\mathbf{\Lambda}$	Pro	ess T	IME/TE	хт
		23456789	9 10 1	1 12 13	14 15 ►	
CD	5 O N Y	- -	Ţ	5	<u>′ 5</u>	
			Pre	ess T	IME/TE	хт

Note

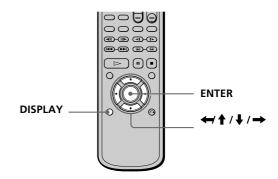
While you are doing Shuffle Play, Program Play, or PBC playback, the playing time of the disc and the remaining time of the disc are not displayed.

Using Various Functions with the Control Menu

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

Using the Control Menu Display 👔 🖤 🀨 ඟ

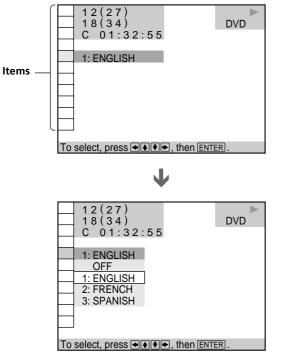
Using the Control Menu display, you can select the start point, play in a order you like, change the angles, etc. The items are different depending on the kind of disc. For details on each Control Menu display item, see pages 27 to 39.



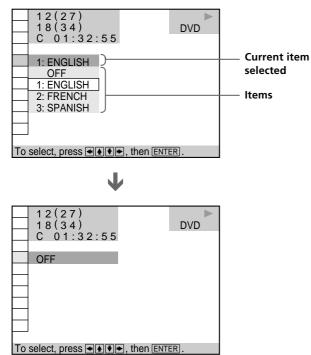
1 Press DISPLAY to show the Control Menu display on the TV screen.

	12(27) 18(34)	
	18(34)	DVD
	C 01:32:55	
То	coloct proce the then	
10	select, press 🛋 🗲 🗭 , then EN	ILEKJ.

2 Select the item you want using **↑**/**↓**, then press → or ENTER.



3 Select the item you want using ↑/↓, then press → or ENTER.



Note

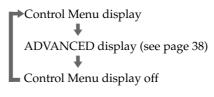
Some Control Menu display items require operations other than selecting the setting. For details on these items, see the relevant pages.

To cancel using the Control Menu display on the way

Press RETURN.

To display other items

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



$\mathbf{\hat{V}}$ You can display some items using the remote

Some items can be displayed by pressing the button of the remote. In this case, only the item you selected is displayed. For the item and operations using the remote, see the pages of each item.

Control Menu Item List

TITLE (DVD only) (page 27)

CHAPTER (DVD only) (page 27)

TRACK (VIDEO CD/CD only) (page 27)

INDEX (VIDEO CD/CD only) (page 27)

SCENE (VIDEO CD during PBC playback only)

(page 27)

You can search by selecting the title/chapter/track/ index/scene.

тіме/техт (page 28, 29)

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

You can search by inputting the time code.

You can check the DVD TEXT or CD TEXT of the disc on the TV screen and the front panel display.

AUDIO (page 30)

With DVDs recorded with multilingual sounds, you can select the language you want while playing the DVD. With multiplex CDs or VIDEO CDs, you can select the sound from the right or left channel and listen to the sound of the selected channel through both the right and left speakers.

SUBTITLE (DVD only) (page 31)

With DVDs on which multilingual subtitles are recorded, you can change the subtitle language whenever you want while playing the DVD, and turn it on or off whenever you want.

ANGLE (DVD only) (page 32)

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

PROGRAM (page 33)

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

SHUFFLE (page 35)

You can have the player "shuffle" titles, chapters or tracks and play them in a random order. The playing order may differ from the previous "shuffling."

REPEAT (page 36)

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

REPEAT (page 37)

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

ADVANCED (DVD only) (page 38)

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

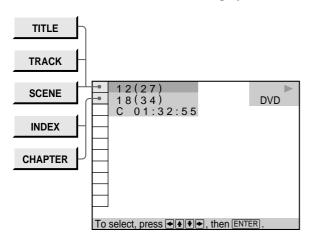
Searching for the Title/Chapter/Track/Index/Scene

You can search by selecting the title/chapter/track/ index/scene.

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

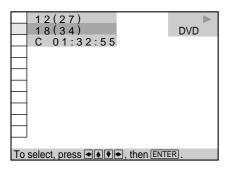
When you play back a DVD, "TITLE" and " CHAPTER" are displayed.

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



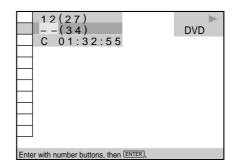
Select "TITLE," "CHAPTER," "TRACK", "INDEX" or "SCENE" using ↑/↓.

" * * (* *)" is highlighted. (** means optional number in this manual.) Number in parentheses indicate the total number of titles, chapters, tracks, indexes or scenes.



2 Press \rightarrow or ENTER.

" * * (* *)" is changed to "--- (* *)".



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

The player starts searching.

To cancel the number, press CLEAR before pressing ENTER.

To cancel selecting

Press RETURN.

Notes

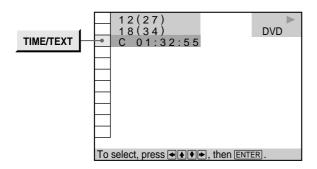
- The number of titles, chapters or tracks displayed is that of the titles, chapters or tracks recorded on a disc.
- The index numbers are not displayed during PBC playback of VIDEO CDs.

Checking the Playing Time and Remaining Time

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

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

You can also check the DVD TEXT or CD TEXT. See page 29.



When playing a DVD ■TIME/TEXT

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

When playing a VIDEO CD (during PBC playback) TIME/TEXT

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

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

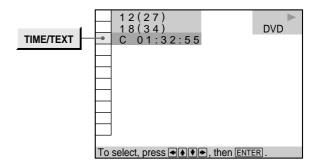
■TIME/TEXT

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

You can display "TIME/TEXT" display using the remote Press TIME/TEXT on the remote. Each time you press the button, the time information changes.

Selecting a Start Point Using the Time Code

You can search by inputting the time code. Select "TIME/TEXT" after pressing DISPLAY. The time code corresponds to the approximate actual playing time. For example, to search for a scene 2 hours 30 minute 20 seconds past the beginning, input 2:30:20.

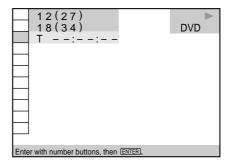


1 Select "C * * : * * : * * " (playing time of the current chapter) when playing a DVD.

12(27) 18(34)	DVD
C 01:32:55	
To select, press €▲♥●, then ENTI	ER.

2 Press \rightarrow or ENTER.

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



3 Input the time code using the number buttons, then press ENTER.

The player starts searching. To cancel the number, press CLEAR before pressing ENTER.

To cancel inputting

Press & RETURN.

You can display "TIME/TEXT" display using the remote Press TIME/TEXT on the remote.

Note

When you input the time code, input the playing time of the title.

Checking the Information of the Disc

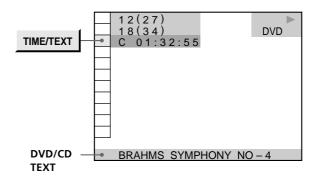


You can check the DVD TEXT or CD TEXT of the disc on the TV screen and the front panel display.

DVD TEXT and CD TEXT are information recorded on the disc which you cannot change.

Press DISPLAY. Then press TIME/TEXT on the remote until DVD/CD TEXT is displayed.

The information is displayed at the bottom of the display.



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

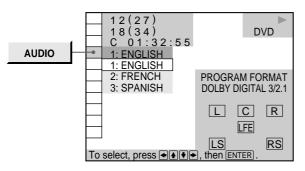
Note

The DVD TEXT only in English is displayed.

Changing the Sounds 👔 OVD 🍩 CD

With DVDs recorded with multilingual sounds, you can select the language you want while playing the DVD. With multiplex CDs or VIDEO CDs, you can select the sound from the right or left channel and listen to the sound of the selected channel through both the right and left speakers. In this case, the sound loses the stereo effect. For example, with a disc containing a song, the right channel may output the vocals and the left channel may output the instrumental. If you only want to hear the instrumental, you can select the left channel and hear it from both speakers.

Select "AUDIO" after pressing DISPLAY.



■AUDIO

When playing a DVD

Select the language. The languages you can select are different depending on the DVD. When 4 digits are displayed, they represent the language code. Select the language code from the list on page 61.

When playing a VIDEO CD or a CD

- <u>STEREO</u> : The standard stereo sound
- 1/L : The sound of the left channel (monaural)
- 2/R : The sound of the right channel (monaural)

You can display "AUDIO" display using the remote Press AUDIO on the remote.

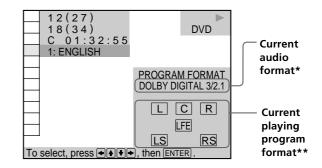
Notes

- Depending on the DVD, you may not be able to change the languages even if multilingual sounds are recorded on the DVD.
- While playing the CD/VIDEO CD, the standard stereo playback will be resumed when:
 - you open or close the disc tray
 - you turn the power off
- While playing the DVD, the sound may be changed when: - you open or close the disc tray
 - you change the title
- If the language is displayed as a 4 digit number, refer to the language code list on page 61.

Displaying the audio information of the disc **OVD**

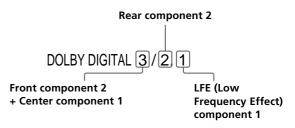
When you select "AUDIO," the playing channels are displayed on the screen.

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



* "PCM," "DTS," "DOLBY DIGITAL" or "MPEG" is displayed. In "DOLBY DIGITAL" case, the channels in the playing track are displayed by number as follows:

The case of Dolby Digital 5.1 ch:

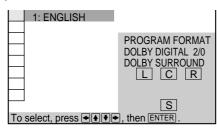


- ** The letters in the program format display mean the following:
 - L: Front (L)
 - R: Front (R)
 - C: Center (monaural)
 - LS: Rear (L)
 - RS: Rear (R)
 - S: Rear (monaural) the rear component of the Dolby Surround processed stereo signal and the Dolby Digital signal.
 - LFE: LFE (Low Frequency Effects)

The display examples are as follows: •PCM (stereo)



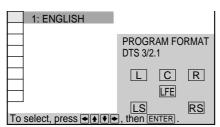
• Dolby Surround



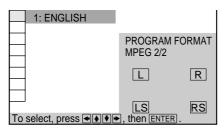
• Dolby Digital 5.1ch

	1: ENGLISH			
		PROGF DOLBY		
		L	С	R
			LFE	
То	select, press 🔺 🕨	LS], then E	NTER.	RS

•DTS



• MPEG



 $\overleftrightarrow{\mathbf{Q}}$ You can find Dolby Surround-encoded software by looking at the packaging

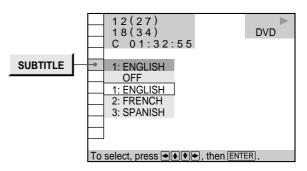
Use discs with the $\prod_{p+q+1}^{p} \log p$ logo. In order to enjoy Dolby Digital playback you must use discs bearing this logo.

Displaying the Subtitles

With DVDs on which subtitles are recorded, you can turn the subtitles on and off whenever you want while playing the DVD.

With DVDs on which multilingual subtitles are recorded, you can change the subtitle language whenever you want while playing the DVD, and turn it on or off whenever you want. For example, you can select the language you want to master and turn the subtitles on for better understanding.

Select "SUBTITLE" after pressing DISPLAY.



■SUBTITLE

Select the language. The languages you can select are different depending on the DVD. When 4 digits are displayed, they indicate the language code. Select the language code from the list on page 61.

You can display the "SUBTITLE" display by using the remote

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

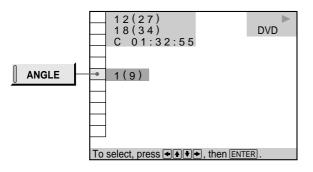
Notes

- When playing a DVD on which no subtitles are recorded, no subtitles appear.
- Depending on the DVD, you may not be able to turn the subtitles on even if they are recorded on it.
- Depending on the DVD, you may not be able to turn the subtitles off.
- If the language is displayed as a 4-digit number, refer to the language code list on page 61.
- The type and number of languages for subtitles vary from disc to disc.
- Depending on the DVD, you may not be able to change the subtitles even if multilingual subtitles are recorded on it.
- While playing the DVD, the subtitle may change when: - you open or close the disc tray
 - you open or close in - you change the title

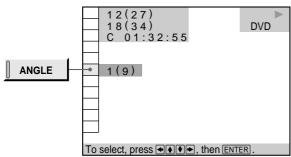
Changing the Angles 👔 🖤

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

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



1 Select "ANGLE."



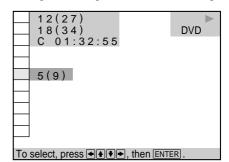
2 Press →.

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

12(27) 18(34) C 01:32:55	DVD		
Enter with number buttons, then ENTER.			

3 Select the number of the angles using the number buttons or ↑/↓, then press ENTER.

The angle is changed to the selected angle.



Notes

- The number of angles varies from disc to disc or from scene to scene. The number of angles that can be changed on a scene is that of angles recorded for that scene.
- Depending on the DVD, you may not be able to change the angles even if multi-angles are recorded on the DVD.

You can specify the angle beforehand

Specify the angle when "ANGLE" is not displayed on the front panel display. When a scene on which multi-angles are recorded comes, the angle is automatically selected.

You can select the angle using the remote

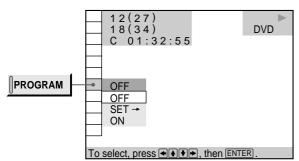
Press ANGLE on the remote. Each time you press the button, the angle changes.

33

Creating Your Own Program (Program Play)

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

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



■PROGRAM

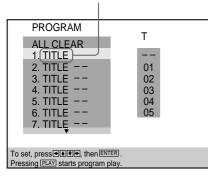
- OFF: plays normal.
- SET →: allows you to create your own program.
- ON: plays Program Play.

Creating the program

1 Select "SET→" in "PROGRAM".

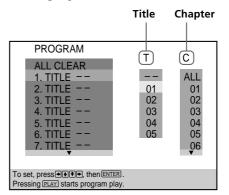
The programming display appears.

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



2 Press →.

"01" is highlighted. It is ready to set the first title or track for program.



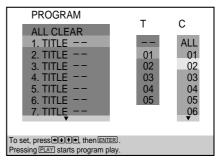
3 Select the title, chapter or track you want to program using ↑/↓, then press ENTER.

For example, select title or track 2.

(You can also use the number buttons and ENTER button to select. In this case, the selected number is displayed on the screen.)

When playing a DVD

When both titles and chapters are recorded on the disc, select the title, then the chapter.

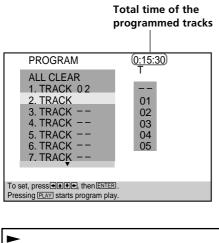


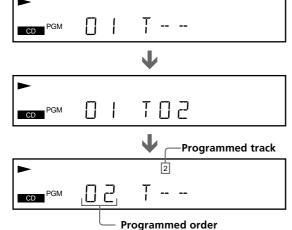


PROGRAM	_			
ALL CLEAR	I			
1. TITLE 01-02				
2. TITLE	01			
3. TITLE	02			
4. TITLE	03			
5. TITLE	04			
6. TITLE	05			
7. TITLE				
······				
To set, press . then ENTER.				
Pressing PLAY starts program play.				

When playing a VIDEO CD or CD

Select the track you want to program.





4 To program other titles, chapters or tracks, repeat Step 3.

The programmed titles, chapters or tracks are displayed from 2 in order.

5 Press ▷ to start Program Play.

To cancel Program Play

Press CLEAR on the remote.

To cancel programming

Press PROGRAM on the remote.

To change programming

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

To cancel the programmed order

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

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

You can do Repeat Play or Shuffle Play of the programmed titles, chapters or tracks

During Program Play, press REPEAT or SHUFFLE on the remote. Or set "REPEAT" or "SHUFFLE" to "ON" in the Control Menu display.

You can display "PROGRAM" display using the remote Press PROGRAM on the remote.

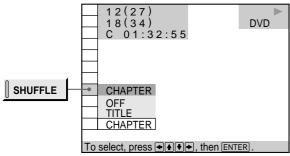
Notes

- The number of titles, chapters or tracks displayed are that of the titles, chapters or tracks recorded on a disc.
- The program is canceled when:
 - you open or close the disc tray
 - you turn the power off
- You may not be able to do Program Play depending on the DVD.
- While you are doing PBC playback, you cannot set a program unless you stop playback once.

Playing in Random Order (Shuffle Play)

You can have the player "shuffle" titles or tracks and play them in a random order. The playing order may differ from the previous "shuffling."

Select "SHUFFLE" after pressing DISPLAY. When you select "ON", the indicator of the "SHUFFLE " lights in green.



■SHUFFLE

Selects the setting of Shuffle Play.

When playing a DVD and when Program Play is set to OFF

- OFF: does not play a disc in random order.
- TITLE: has the player "shuffle" titles and play in a random order.
- CHAPTER: has the player "shuffle" chapters and play in a random order.

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

- <u>OFF</u>: does not play a disc in random order.
- ON: has the player "shuffle" titles or tracks and play in a random order.

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

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

To cancel Shuffle Play

Press CLEAR on the remote.

You can set Shuffle Play during stop

After selecting the item of "SHUFFLE", press \triangleright . The player starts Shuffle Play.

You can display the "SHUFFLE" display using the remote Press SHUFFLE on the remote.

Notes

- Shuffle Play is canceled when:
 - you open or close the disc tray
 - you turn the power off
- You may not be able to do Shuffle Play depending on the DVD.
- Up to 200 chapters in a disc can be played in a random order when "CHAPTER" is selected.

Playing Repeatedly (Repeat Play) 👔 💵 🚥

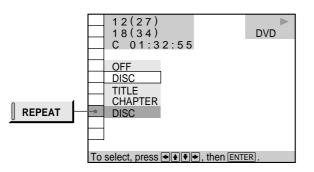
You can play all the titles/tracks on a disc or a single title/chapter/track.

In Shuffle or Program Play mode, the player repeats the titles or tracks in the shuffled or programmed order. You cannot do Repeat Play during PBC playback of

VIDEO CDs (page 21).

You may not be able to do Repeat Play depending on the DVD.

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



■REPEAT

Selects the setting of Repeat Play.

When playing a DVD and when Program Play and Shuffle Play are set to OFF

- <u>OFF</u>: does not play repeatedly.
- DISC: repeats all the titles.
- TITLE: repeats the current title on a disc.
- CHAPTER: repeats the current chapter.

When playing a VIDEO CD/CD and when Program Play and Shuffle Play are set to OFF

- OFF: does not play repeatedly.
- DISC: repeats all the tracks on a disc.
- TRACK: repeats the current track.

When Program Play or Shuffle Play is set to ON

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

To cancel Repeat Play

Press CLEAR on the remote.

Ŷ You can set Repeat Play during stop After selecting the item of "REPEAT", press ▷. The player starts Repeat Play. **Y** You can display the "REPEAT" display using the remote Press REPEAT on the remote.

Note

Repeat play is canceled when you turn the power off.

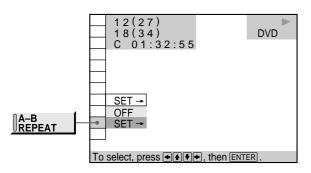
Using Various Functions with the Control Menu

Repeating a Specific Portion ($A \leftrightarrow B$ Repeat)

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

During PBC Playback of VIDEO CDs (page 21), this function is available only while playing moving pictures. You may not be able to do A \leftrightarrow B Repeat Play depending on the DVD.

Select "A-B REPEAT" after pressing DISPLAY. During $A \leftrightarrow B$ Repeat Play, the indicator of the "A-B REPEAT" lights in green.



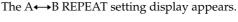
■A-B REPEAT

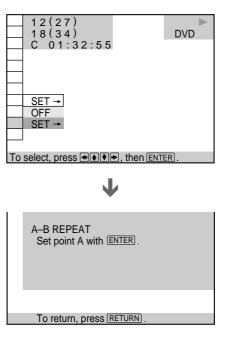
- <u>SET</u>: sets the A and B points.
- OFF: does not play a specific portion of a title/chapter/ track repeatedly.

 \overleftrightarrow You can display the "A-B REPEAT" display using the remote Press A \leftrightarrow B on the remote.

Setting a portion for A↔B repeat

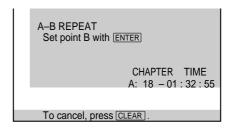
1 Select "SET→" in "A-B REPEAT."





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

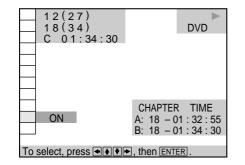
The starting point (point A) is set.



3 When you reach the ending point (point B), press ENTER again.

The setting points are displayed and the player starts repeating this specific portion.

"A-B REPEAT" appears on the front panel display during $A \leftrightarrow B$ repeat play.



To cancel A↔B Repeat Play

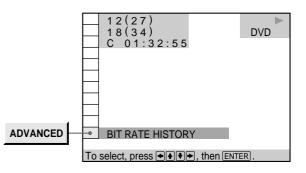
Press CLEAR on the remote.

Notes

- You can set $A \leftrightarrow B$ Repeat on only one specific portion.
- A↔B Repeat is canceled when:
- you open or close the disc trayyou turn the power off
- When you set $A \leftrightarrow B$ Repeat, the settings for Shuffle Play and Program Play are canceled.
- You may not be able to set A↔B Repeat, depending on the scene of the DVD or the VIDEO CD.

Checking the Play

You can check the play information on the bit rate, bit rate history or the position where the disc is played (layer). While playing a disc, the approximate bit rate of the playback picture is always displayed by Mbps (Mega bit per second) and the audio by Kbps (Kilo bit per second). Select "ADVANCED" after pressing DISPLAY.



When playing a DVD

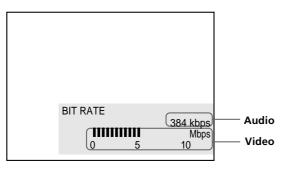
- <u>BIT RATE</u>: displays bit rate.
- BIT RATE HISTORY: displays bit rate and bit rate history.
- LAYER: displays layer and the point picked up.
- OFF: turns off ADVANCED display.

You can display the ADVANCED display directly

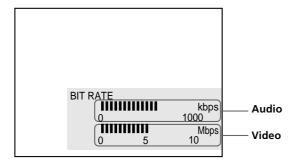
Press DISPLAY until the ADVANCED display appears.

Displays of each item

BIT RATE

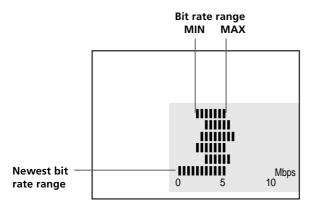


When you play MPEG AUDIO sound tracks



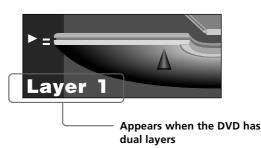
Bit rate refers to the amount of video/audio data per second in a disc. The higher the bit rate is, the larger the amount of data. When the bit rate level is high, there is a large amount of data. However, this does not always mean that you can get higher quality pictures or sounds.

BIT RATE HISTORY



Indicates the transition of bit rate of the playback picture for a period up to the present.

LAYER



Indicates the approximate point where the disc is playing. If it is a dual-layer DVD, the player indicates which layer is being read.

For details on the layers, see page 59.

Settings and Adjustments

This chapter describes how to set and how to adjust using the on-screen SET UP menu. Most settings and adjustments are required to be set when you first use the player. This chapter also describes how to set the remote for controlling the TV or the AV receiver (amplifier).

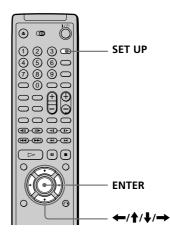
Using the Setup Display 👔

Using the setup display, you can do the initial setup, adjusting the picture and sound quality, setting the various outputs, etc. You can also set a language for the subtitles and the setup display, limit playback by children, etc.

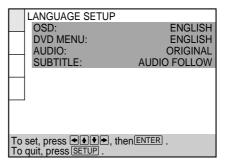
For details on each setup display item, see pages 43 to 50.

Note

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



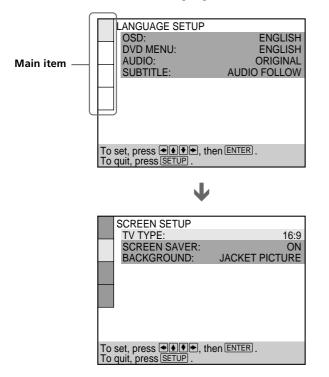
1 Press SET UP to display the setup display on the TV screen.



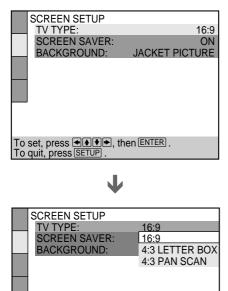
Settings and Adjustments

2 Select the main item you want using ↑/↓, and then press ENTER.

The selected main item is highlighted.

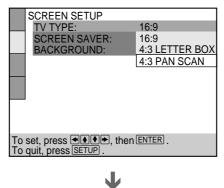


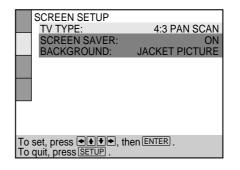
3 Select the item you want using ↑/↓, then press → or ENTER.





4 Select the setting you want using ←/↑/↓/→, then press ENTER.





To cancel using the setup display on the way

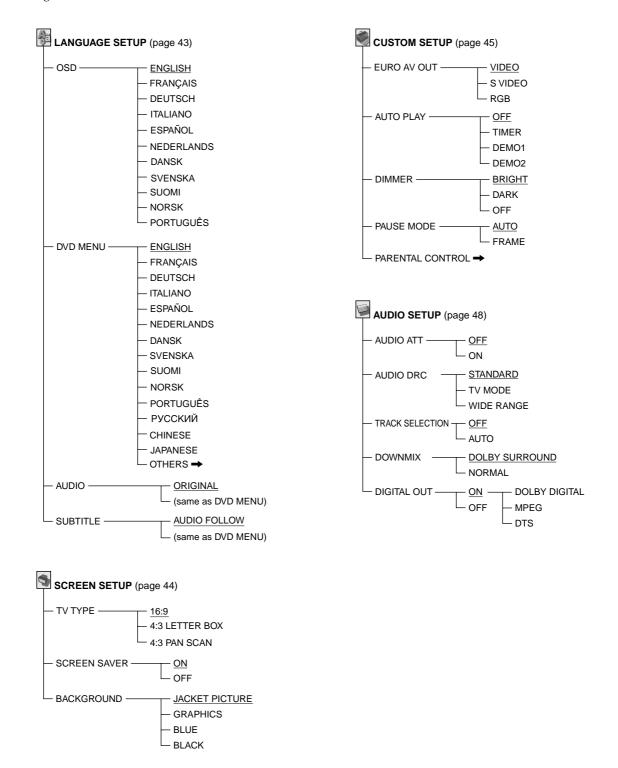
Press SET UP on the remote.

Note

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

Setup Display Item List

Default settings are underlined.

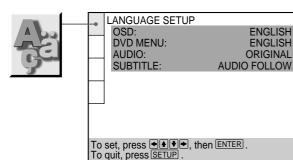


Setting the Language for Display and Sound (LANGUAGE SETUP)

Select "LANGUAGE SETUP" after pressing SET UP. "LANGUAGE SETUP" allows you to set various languages for on-screen display or sound. Default settings are underlined.

Note

When you select a language that is not recorded on the DVD, one of the recorded languages is automatically selected except for the "OSD".



■OSD (On-Screen Display)

Switches the language for the on-screen display.

- ENGLISH (ENGLISH)
- FRANÇAIS (FRENCH)
- DEUTSCH (GERMAN)
- ITALIANO (ITALIAN)
- ESPAÑOL (SPANISH)
- NEDERLANDS (DUTCH)
- DANSK (DANISH)
- SVENSKA (SWEDISH)
- SUOMI (FINNISH)
- NORSK (NORWEGIAN)
- PORTUGUÊS (PORTUGUESE)

DVD MENU

Switches the language for the DVD menu.

- <u>ENGLISH</u> (ENGLISH)
- FRANÇAIS (FRENCH)
- DEUTSCH (GERMAN)
- ITALIANO (ITALIAN)
- ESPAÑOL (SPANISH)
- NEDERLANDS (DUTCH)
- DANSK (DANISH)
- SVENSKA (SWEDISH)
- SUOMI (FINNISH)
- NORSK (NORWEGIAN)
- PORTUGUÊS (PORTUGUESE)
- РУССКИЙ (RUSSIAN)
- CHINESE (CHINESE)
- JAPANESE (JAPANESE)
- OTHERS

When you select "OTHERS," select and enter the language code from the list using the number buttons (page 61). After you have once selected, the language code (4 digits) is displayed.

Switches the language for the sounds.

- <u>ORIGINAL</u>: the language given priority in the disc
- ENGLISH (ENGLISH)
- FRANÇAIS (FRENCH)
- DEUTSCH (GERMAN)
- ITALIANO (ITALIAN)
- ESPAÑOL (SPANISH)
- NEDERLANDS (DUTCH)
- DANSK (DANISH)
- SVENSKA (SWEDISH)
- SUOMI (FINNISH)
- NORSK (NORWEGIAN)
- PORTUGUÊS (PORTUGUESE)
- РУССКИЙ (RUSSIAN)
- CHINESE (CHINESE)
- JAPANESE (JAPANESE)
- OTHERS→

When you select "OTHERS→," select and enter the language code from the list using the number buttons (page 61). After you have once selected, the language code (4 digits) is displayed.

Switches the language for the subtitles.

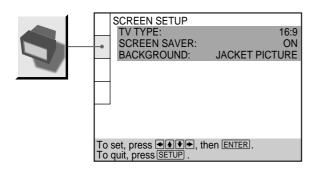
- <u>AUDIO FOLLOW*</u>
- ENGLISH (ENGLISH)
- FRANÇAIS (FRENCH)
- DEUTSCH (GERMAN)
- ITALIANO (ITALIAN)
- ESPAÑOL (SPANISH)
- NEDERLANDS (DUTCH)
- DANSK (DANISH)
- SVENSKA (SWEDISH)
- SUOMI (FINNISH)
- NORSK (NORWEGIAN)
- PORTUGUÊS (PORTUGUESE)
- РУССКИЙ (RUSSIAN)
- CHINESE (CHINESE)
- JAPANESE (JAPANESE)
- OTHERS→

When you select "OTHERS→," select and enter the language code from the list using the number buttons (page 61). After you have once selected, the language code (4 digits) is displayed.

* When you select "AUDIO FOLLOW," the language for the subtitles changes according to the language for the setting you selected in "AUDIO."

Settings for Display (SCREEN SETUP) 👔 💵 🚥

Select "SCREEN SETUP" after pressing SET UP. "SCREEN SETUP" allows you to set the display according to the playback conditions. Default settings are underlined.



TV TYPE

Selects the aspect ratio of the TV to be connected.

- <u>16:9</u>: when you connect a wide-screen TV to the player.
- 4:3 LETTER BOX: when you connect a normal TV to the player. Displays a wide picture with bands displayed on the upper and lower portions of the screen.
- 4:3 PAN SCAN: when you connect a normal TV to the player. Displays the wide picture on the whole screen with a portion automatically cut off.

SCREEN SAVER

Turns on and off the screen saver. If you turn on the screen saver, the screen saver image appears when you leave the player or the remote in pause or stop mode for 15 minutes or when you play back a CD for more than 15 minutes. The screen saver is useful to prevent your display from becoming damaged.

- <u>ON</u>: turns on the screen saver.
- OFF: turns off the screen saver.

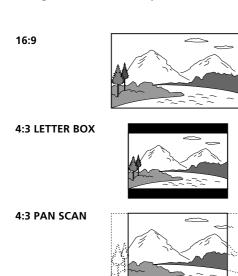
BACKGROUND

Selects the background color or picture of the TV screen in stop mode or while playing a CD.

- JACKET PICTURE: The jacket picture appears in the background, but only when the jacket picture is already recorded on the disc.
- GRAPHICS: The graphic picture stored in memory in the player beforehand appears in the background.
- BLUE: The background color is blue.
- BLACK: The background color is black.

Note

If a disc which does not contain the jacket picture is played while "BACKGROUND" is set to "JACKET PICTURE," the graphic picture stored in the player will automatically appear in the background.



Note

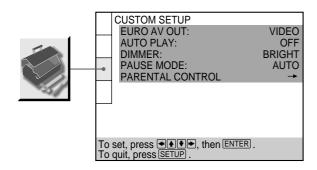
44

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

Custom Settings (CUSTOM SETUP) 🔋 砅 🍩 🕢

Select "CUSTOM SETUP" after pressing SET UP. "CUSTOM SETUP" allows you to set the playback conditions.

Default settings are underlined.



EURO AV OUT

Selects the methods of outputting video signals from the EURO AV 1(RGB)–TV connectors on the rear panel of the player.

- <u>VIDEO</u>: outputs the video signals.
- S VIDEO: outputs the S video signals.
- RGB: outputs the RGB signals.

Notes

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

AUTO PLAY

Selects the setting of Auto Play when you connect the AC power cord to the AC outlet.

- <u>OFF</u>: does not use "TIMER," "DEMO1" or "DEMO2" to start playing.
- TIMER: starts playing a disc automatically when you connect the AC power cord to the AC outlet. By connecting a timer (not supplied), you can start playing at any time you want.
- DEMO1: starts playing the demonstration 1 automatically.
- DEMO2: starts playing the demonstration 2 automatically.

Adjusts the lighting of the front panel display.

- <u>BRIGHT</u>: makes the front panel display bright.
- DARK: makes the front panel display dark.
- OFF: turns off the lighting of the front panel display.

■PAUSE MODE (DVD only)

Selects the picture in pause mode.

- <u>AUTO</u>: A picture including subjects that move dynamically is output with no jitter. Normally select this position.
- FRAME: A picture including subjects that do not move dynamically is output with high resolution.

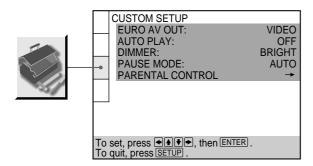
■PARENTAL CONTROL→

Sets a password and playback limitation level when you play DVDs with playback limitation for children. For details, see "Limiting Playback by Children (Parental

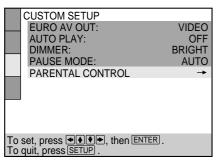
Control)."

Limiting Playback by Children (Parental Control)

Select "CUSTOM SETUP" after pressing SET UP. Playing some DVDs can be limited depending on the age of users. The "Parental Control" function allows you to set a playback limitation level.

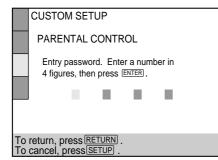


 Select "PARENTAL CONTROL" using ↑/↓, then press ENTER.



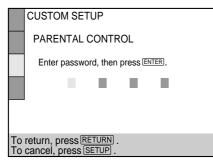
When you have not entered a password yet

The display for entering a password appears.



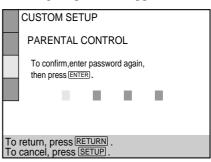
When you have already entered a password

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



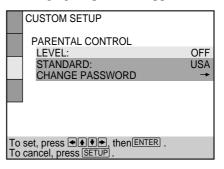
2 Enter a password in 4 digits using the number buttons, then press ENTER.

The digits change to asterisks (\mathbf{X}) , and the display for confirming the password appears.

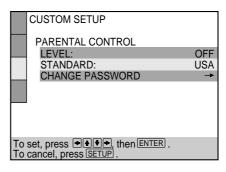


3 To confirm your password, enter it using the number buttons, then press ENTER.

The display for setting the playback limitation level and changing the password appears.



4 Select "STANDARD" using \uparrow/\downarrow , then press \rightarrow .



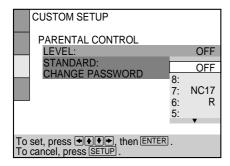
46

5 Select an area as the standard for playback limitation level using ↑/↓, then press →.
 When you select "OTHERS→," select and enter the

standard code in the table on the next page using number buttons.

	CUSTOM SETUP				
	PARENTAL CONTROL				
	LEVEL:	OFF			
	STANDARD:	USA			
	CHANGE PASSWORD	USA			
		OTHERS→			
To To	To set, press 🗨 💓, then ENTER. To cancel, press SETUP.				

6 Select "LEVEL" using \uparrow/\downarrow , then press \rightarrow .



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

	CUSTOM SETUP				
	PARENTAL CONTROL	4:	PG13		
	STANDARD: CHANGE PASSWORD	т.	USA		
	0				
To set, press ●●●●, then ENTER.					
To set, press ◀◀♥♥, then ENTER. To cancel, press SETUP.					

The lower the value is, the more strict the limitation.

To return to the normal screen

Press SET UP.

To turn off the Parental Control function and play the DVD after entering your password

Set "LEVEL" to "OFF" in Step 7, then press \triangleright .

To change the password

1 After Step 3, select "CHANGE PASSWORD" using ↑/
↓, then press → or ENTER.

The display for changing the password appears.

2 Follow Steps 2 and 3 to enter a new password.

``Ç` You can turn off the Parental Control function just after inserting the DVD (Parental Control Temporarily Canceled)

When you set a playback limitation level and insert the DVD, the PARENTAL CONTROL display appears. Enter the password to turn off the Parental Control function.

When you stop playing the DVD, the level returns to the original level.

ې If you have forgot your password

Enter the 6 digits number "199703" in Step 2 to clear the current password. To enter a new password, follow the procedure from Step 2 again.

Notes

- When you play DVDs which do not have the Parental Control function, playback cannot be limited on this player.
- When you do not set a password, you cannot change the settings for playback limitation.
- Depending on the DVD, you may be asked to change the parental control level while playing the disc. In this case, enter the password, then change the level.

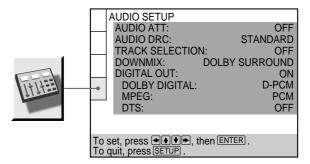
When you stop playing the DVD, the level returns to the original level.

Custom Settings (CUSTOM SETUP)

Standard	Code number
Austria	2046
Belgium	2057
Canada	2079
China	2092
Denmark	2115
Finland	2165
France	2174
Germany	2109
Hong Kong	2219
Indonesia	2238
Italy	2254
Japan	2276
Malaysia	2363
Netherlands	2376
Norway	2379
Philippines	2424
Russian	2489
Singapore	2501
Spain	2149
Sweden	2499
Switzerland	2086
Taiwan	2543
Thailand	2528
United Kingdom	2184

Settings for Sound (AUDIO SETUP)

Select "AUDIO SETUP" after pressing SET UP. "AUDIO SETUP" allows you to set the sound according to the playback conditions. Default settings are underlined.



■AUDIO ATT (attenuation)

Selects the setting of the output from the LINE OUT (AUDIO) and EURO AV (1, 2) connectors according to the audio equipment to be connected.

- <u>OFF</u>: turns off the audio attenuation.
- ON: reduces the audio output level so that no sound distortion occurs.

Note

The setting does not affect the output from the DIGITAL OUT OPTICAL and COAXIAL connectors.

■AUDIO DRC (Dynamic Range Control)

Makes the sound clear with the volume turned down at night, etc., when you play a DVD. This affects the output from the DIGITAL OUT connectors only when "PCM" in "DIGITAL OUT" is set to "ON," and it affects the output from the LINE OUT (AUDIO) and EURO AV (1, 2) connectors.

- <u>STANDARD</u>: Normally select this position.
- TV MODE: makes the low sound clear even if you turned the volume down, so it is good for playing at night. It is especially recommended when you listen to the sound using the speakers of the TV.
- WIDE RANGE: It gives you the feeling of being at a live performance. When you use high quality speakers, it is more effective.

Note

When you play DVDs without the AUDIO DRC function, there may be no effect on the sound.

TRACK SELECTION

Gives the sound track which contains the highest number of the channels priority when you play a DVD on which multiple audio formats are recorded. If multiple audio channels are recorded in PCM, DTS, MPEG AUDIO or Dolby Digital format, the higher-numbered channel audio recorded in PCM, DTS, MPEG AUDIO or Dolby Digital format is played.

- <u>OFF</u> : No priority given.
- AUTO : Priority given.

Notes

- When you set this item to "AUTO", the language may change depending on the "AUDIO" settings in "LANGUAGE SETUP." The "TRACK SELECTION" setting has higher priority than that of "AUDIO" settings in "LANGUAGE SETUP" (page 43).
- If you set "DTS" in "AUDIO SETUP" to "OFF", the DTS sound track is not played even if you set this item to "AUTO" and the highest-numbered channel audio is recorded in DTS format.
- If PCM, DTS, MPEG AUDIO and Dolby Digital sound tracks have the same number of the highest channels, the player selects PCM, DTS, Dolby Digital and MPEG AUDIO sound tracks, in this order.
- Depending on the DVD, the audio with priority may be predetermined. In this case, you cannot give priority to the DTS, MPEG AUDIO or Dolby Digital format by selecting "AUTO."

DOWNMIX*

Switches the mixing down methods when you play a DVD on which 3 or more channels in Dolby Digital format is recorded.

- <u>DOLBY SURROUND</u>: when the player is connected to an audio component that conforms to Dolby Surround (Pro Logic).
- NORMAL: when the player is connected to a normal audio component.
- * The setting affects the following connectors:
 -LINE OUT (AUDIO) connectors
 -DIGITAL OUT (OPTICAL, COAXIAL) connectors.

DIGITAL OUT

Selects output signals via the DIGITAL OUT OPTICAL and COAXIAL connectors.

- <u>ON</u>: Normally select this position. When you select "ON," set "DOLBY DIGITAL," "MPEG" and "DTS." For details on setting them, see "Setting for the Signal to the Digital Output."
- OFF: when the player does not output the sound signals via DIGITAL OUT OPTICAL and COAXIAL connectors, if you select this position, the influence of the digital circuit upon the analog one is minimum.

Notes

- When you play the sound tracks with 96 kHz sampling frequency, the output signals from the DIGITAL OUT (OPTICAL, COAXIAL) are converted to 48 kHz (sampling frequency). When the signals are output from LINE OUT (AUDIO) connectors, sampling frequency stays at 96kHz and the output signals are converted to analog signals.
- When you select "OFF," You cannot set "DOLBY DIGITAL" "MPEG" and "DTS."

Setting for the Signal to the Digital Output

When you select "ON," set "DOLBY DIGITAL," "MPEG" and "DTS."

Switches the methods of outputting audio signals when you connect a digital component such as a receiver (amplifier) having a digital connector, an audio component having a built-in decoder (Dolby Digital, MPEG or DTS), a DAT or MD via the DIGITAL OUT OPTICAL or COAXIAL connector using an optical or coaxial digital connecting cord. For details on the connection, see pages 12 and 13.

_			
	AUDIO SETUP		
	AUDIO ATT:		OFF
	AUDIO DRC:		STANDARD
	TRACK SELECTIO	N:	OFF
	DOWNMIX:	DOLBY S	SURROUND
	DIGITAL OUT:		ON
	DOLBY DIGITAL:		D-PCM
	MPEG:		PCM
	DTS:		OFF
			_
To	set, press •••, to quit, press SETUP.	thenENTER	J.
To	quit, press SETUP .		

DOLBY DIGITAL

Selects output Dolby Digital signals via the DIGITAL OUT OPTICAL and COAXIAL connectors. You cannot select this item when you set "DIGITAL OUT" to "OFF."

- <u>D-PCM</u> (Downmix PCM): when you play the Dolby Digital sound tracks, the output audio signals are mixed down to 2 channels. With the settings of the item "DOWNMIX" in "AUDIO SETUP," you can select whether the signals conform to Dolby Surround (Pro Logic) or not.
- DOLBY DIGITAL: when the player is connected to an audio component with a built-in Dolby Digital decoder.

Note

If the player is connected to an audio component lacking a built-in Dolby Digital decoder, do not set "DOLBY DIGITAL" in "AUDIO SETUP" to "DOLBY DIGITAL." Otherwise, when you play the Dolby Digital sound track, a loud noise or no sound will come out from the speakers, affecting your ears or causing the speakers to be damaged.

■MPEG

Selects output MPEG AUDIO signals via the DIGITAL OUT OPTICAL and COAXIAL connectors. You cannot select this item when you set "DIGITAL OUT" to "OFF."

- <u>PCM</u>: when the player is connected to an audio component lacking a built-in MPEG decoder. If you play MPEG AUDIO sound tracks, the player outputs stereo signals taken from MPEG AUDIO signals via the DIGITAL OUT OPTICAL and COAXIAL connectors.
- MPEG: when the player is connected to an audio component having a built-in MPEG decoder.

Note

If the player is connected to an audio component lacking a built-in MPEG decoder, do not set "MPEG" in "AUDIO SETUP" to "MPEG." Otherwise, when you play the MPEG AUDIO sound track, a loud noise will come out from the speakers, affecting your ears or causing the speakers to be damaged.

Note

The player outputs the MPEG analog audio sound only from the front speakers when you set "DIGITAL OUT" in "AUDIO SETUP" to "ON" and then set "MPEG" to "MPEG."

■DTS

Selects output DTS signals via the DIGITAL OUT OPTICAL and COAXIAL connectors. You cannot select this item when you set "DIGITAL OUT" to "OFF."

- <u>OFF</u>: when the player is connected to an audio component lacking a built-in DTS decoder.
- ON: when the player is connected to an audio component having a built-in DTS decoder.

Note

Select the setting correctly. Otherwise, no sound or strange sound will come out from the speakers, affecting your ears or causing the speakers to be damaged.

- Do not play the DTS sound tracks without connecting the player to an audio component having a built-in DTS decoder. You cannot hear the DTS sound unless you connect the player to an audio component having a built-in DTS decoder.
- When you play the DTS sound track on a CD, a loud noise may come out from the LINE OUT (AUDIO) connectors, affecting your ears or causing the speakers to be damaged.
- When you play the DTS sound track on a DVD, no sounds will come out from the LINE OUT (AUDIO) connectors.

Notes on playing the DTS sound tracks on a CD

- Do not play the DTS sound tracks without connecting the player to an audio component having a built-in DTS decoder. The player output the DTS signal via the DIGITAL OUT OPTICAL and COAXIAL connectors even if "DTS" in "AUDIO SETUP" is set to "OFF" in the setup display, affecting your ears or causing the speakers to be damaged.
- Set the sounds to "STEREO" when you play the DTS sound tracks on a CD. (See "Changing the Sounds" on page 30.) If you set the sounds to "1/L" or "2/R", no sounds will come out from the DIGITAL OUT OPTICAL and COAXIAL connectors.

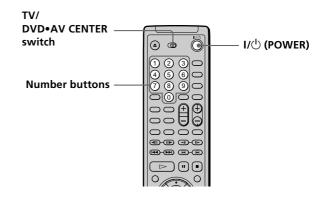
Notes on playing the DTS sound tracks on a DVD

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

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

If you adjust the remote signal, you can control your TV with the supplied remote. Default setting is to control Sony TVs with the **B** mark.

When you connect the player to a Sony AV receiver (amplifier), you can also set the input of the receiver (amplifier) to this player with the supplied remote.



Controlling TVs with the remote

- **1** Slide the TV/DVD•AV CENTER switch to TV.
- 2 Hold down I/⁽¹⁾ (POWER), and enter your TV's manufacturer's code (see the table) using the number buttons. Then release I/⁽¹⁾ (POWER).

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.

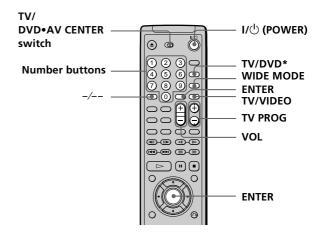
Notes

- If you enter a new code number, the code number previously entered will be erased.
- When you replace the batteries of the remote commander, the code number may reset to 01 (Sony). Reset the appropriate code number.

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

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

When you set the TV/DVD•AV CENTER switch to TV, you can control your TV using the keys below.



By pressing	You can
I/也 (POWER)	Turn the TV on or off
TV/VIDEO	Select the input source for the TV between the TV and VCR
TV/DVD*	Select the input source for the TV between the TV and CD/DVD player
VOL	Adjust the volume of the TV
TV PROG	Select the program position of the TV
WIDE MODE	Switch the wide picture on or off
Number buttons and ENTER	Select the program position of the TV

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

Notes

- Depending on the TV, you may not be able to control your TV or to use some of the buttons above.
- If you use number buttons to select program position of the TV, press -/-- followed by the number buttons for two-digit numbers.

Controlling an AV receiver (amplifier) with the remote

- **1** Slide the TV/DVD•AV CENTER switch to DVD•AV CENTER.
- 2 Hold down I/⁽¹/₍) (POWER), and enter your AV receiver's manufacturer's code (see the table below) using the number buttons. Then release I/⁽¹/₍) (POWER).

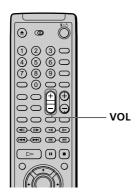
Manufacturer	Code number
Sony	91(default), 88, 89
Denon	84, 85, 86
Kenwood	92, 93
Onkyo	81, 82, 83
Pioneer	99
Sunsui	87
Technics	97,98
Yamaha	94, 95, 96
TV Vol	90*

* By setting the code number 90, you can adjust the volume of the TV even if the TV/DVD•AV CENTER switch is on the DVD•AV CENTER side, if you do not control an AV receiver (amplifier) with the remote.

Code numbers of controllable receivers (amplifiers)

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

You can also change the sound volume of the AV receiver (amplifier) using VOL.



Note

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

Additional Information

Troubleshooting

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

Power

The power is not turned on.

➡ If the indicator above the I/⁽¹⁾ (POWER) button is not lit, check that the AC power cord is connected securely.

Picture

There is no picture.

- → Check that the player is connected securely.
- ➡ The video connecting cord is damaged. Replace it with a new one.
- → Make sure you connect the player to the video input connector on the TV. (page 8)
- \rightarrow Make sure you turn on the TV.
- Make sure you select the video input on the TV so that you can view the pictures from the player.

The picture noise appears.

- ➡ Clean the disc.
- ➡ If video from your DVD player has to go through your VCR to get to your TV, the copy-protection applied to some DVD programs could affect picture quality. If you still experience problems after checking your connections, please try connecting your DVD player directly to your TV's S-input, if your TV is equipped with this input. (page 8)
- The picture noise appears when the player is connected to the TV via the video deck.
 Do not connect the player to the video deck.
 Connect the player directly to the TV. (page 9)

The aspect ratio of the screen cannot be changed even though you set "TV TYPE" in "SCREEN SETUP" in the setup display when you play a wide picture.

- → The aspect ratio is fixed on your DVD.
- ➡ If you connect the player with the S video cord, connect directly to the TV. Otherwise, you may not change the aspect ratio.
- Depending on the TV, you may not change the aspect ratio.

The numbers or letters of 5 characters are displayed on the front panel display.

➡ Self diagnosis function was activated. See the table in page 57 and treat the player appropriately.

The picture is black and white.

- ➡ In the setup display, set "EURO AV OUT" in "CUSTOM SETUP" to the appropriate item conforms to your TV. (page 45)
- ➡ Depending on the TV, the picture on the screen becomes black and white when you play a disc recorded in NTSC color system.

Sound

There is no sound.

- → Check that the player is connected securely.
- ➡ The audio connecting cord is damaged. Replace it with a new one.
- Make sure you connect the player to the audio input connectors on the receiver (amplifier). (page 11)
- → Make sure you turn on the TV and the receiver (amplifier).
- Make sure you select the appropriate position on the receiver (amplifier) so that you can listen to the sound from the player.
- ➡ The player is in pause mode or in Slow-motion Play mode. Press ▷ to return to normal play mode.
- ➡ Fast forward (1►► or 2►►) or fast reverse (1◄◄ or 2◄◄) is performed. Press ▷ to return to normal play mode.
- → When you play the Dolby Digital/MPEG AUDIO sound tracks and attempt to output from the DIGITAL OUT connectors, set "DIGITAL OUT" to "ON" in the setup display. Otherwise no sound will come out from the DIGITAL OUT connectors. (page 49)
- → When you play the DTS sound tracks, no sound will come out from the LINE OUT connectors. (page 50)

Sound noise is heard.

- ➡ Clean the disc.
- ➡ When you play the DTS sound tracks on a CD, sound noise will come out from the LINE OUT connectors. (page 50)

Sound distortion occurs.

➡ In the setup display, set "AUDIO ATT" in "AUDIO SETUP" to "ON."

The sound loses stereo effect when you play a VIDEO CD or a CD.

- ➡ Set "AUDIO" to "STEREO" in the Control Menu display. (page 30)
- → Make sure you connect the player appropriately. (page 8, 11, 13)

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

Depending on the DVD, the output signal may not be the entire 5.1 channel but monaural or stereo even if the sound track is recorded in Dolby Digital format.

The sound comes from the center speaker only.

Depending on the disc, the sound may come from the center speaker only.

Operation

The remote does not function.

- Remove any obstacles between the remote and the player.
- \rightarrow Use the remote near the player.
- ➡ Point the remote at the remote sensor on the player.
- Replace all the batteries in the remote with new ones if they are weak.

The disc does not play.

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

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

- ➡ Repeat Play, Shuffle Play or Program Play has been selected. Press CLEAR. (page 33 to 38)
- → Resume Play has been selected. Press ■ on the front panel or on the remote before you start playing. (page 19)
- → A title menu or a DVD menu automatically appears on the TV screen when you play your DVD, or a setup display automatically appears on the TV screen when you play your VIDEO CD with PBC functions.

The player starts playing the DVD automatically.

➡ The DVD features the auto playback function.

Playback stops automatically.

➡ Depending on the disc, the auto pause signal is recorded. While playing such a disc, the player stops playback at the signal.

Stopping playback, Search, Slow-motion Play, Repeat Play, Shuffle Play or Program Play, etc., cannot be done.

Depending on the disc, you may not do some of the operations above.

Messages do not appear on the TV screen in the language you want.

➡ In the setup display, select the language for the onscreen display in "OSD" under "LANGUAGE SETUP." (page 43)

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

- ➡ Multilingual sound is not recorded on the DVD.
- Changing the language for the sound is prohibited on the DVD.

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

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

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

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

The angles cannot be changed when you play a DVD.

- ➡ Multi-angles are not recorded on the DVD.
- ➡ Change the angles when "ANGLE" appears on the front panel display. (page 32)
- → Changing the angles is prohibited on the DVD.

The player does not operate properly.

- → Static electricity, etc., may affect the player's operation.
 - Disconnect the AC power cord once, then connect it again.

Nothing is displayed on the front panel display.

→ In the set up display, "DIMMER" in "CUSTOM SETUP" is set to "OFF." Set "DIMMER" to "BRIGHT" or "DARK." (page 45)

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

Contact your Sony dealer or local authorized Sony service facility.

Self-diagnosis function

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

First three characters	Cause and/or Corrective Action
C13	 The disc is dirty. →Clean the disc with a cleaning cloth. (page 6)
C31	 The disc is not inserted correctly. →Open the disc tray and insert the disc correctly.
Exx (xx is any number)	 To prevent the player from malfunctioning, the self-diagnosis function has worked. →When you contact your Sony dealer or local authorized Sony service facility, give the 5-character service number. (example: E:61:10)

Specifications

CD/DVD player

Laser Semiconductor laser Signal format system PAL/(NTSC)

Audio characteristics

Frequencyr esponse DVD (PCM 96 kHz): 2 Hz to 44 kHz (±1 dB)* DVD (PCM 48 kHz): 2 Hz to 22 kHz (±0.5 dB) CD: 2 Hz to 20 kHz (±0.5 dB) Signal-to-noise ratio More than 110 dB (LINE OUT (AUDIO) connectors only)

Harmonic distortion

Less than 0.0025%

Dynamic range

More than 100 dB (DVD) More than 98 dB (CD)

Wow and flutter

Less than detected value (±0.001% W PEAK)

Outputs and inputs

	Jack type	Output Ievel	Load impedance
LINE OUT (AUDIO)	Phono jacks	2 Vrms (at 50 kilohms)	Over 10 kilohms
DIGITAL OUT (OPTICAL)	Optical output connector	–18 dBm	Wave length: 660 nm
DIGITAL OUT (COAXIAL)	Phono jack	0.5 Vp-p	75 ohms terminated
LINE OUT (VIDEO)	Phono jacks	1.0 Vp-p	75 ohms, sync negative
S VIDEO OUT	4-pin mini DIN	Y: 1.0 Vp-p C: 0.3 Vp-p (PAL) 0.286 Vp-p (NTSC)	75 ohms, sync negative 75 ohms terminated

General

Powerr equir ements 220-240V AC, 50/60 Hz **Power consumption** 16 W Dimensions (appr ox.) $430 \times 95 \times 305 \text{ mm} (w/h/d)$ incl. projecting parts Mass (appr ox.) 3.3 kg Operating temperatur e 5 °C to 35 °C **Operating humidity** 5% to 90%

Supplied accessories

See page 7.

* The signals from LINE OUT (AUDIO) connectors are measured. When you play the PCM sound tracks with 96 kHz sampling frequency, the output signals from the DIGITAL OUT (OPTICAL, COAXIAL) are converted to 48 kHz (sampling frequency).

Design and specifications are subject to change without notice.

Glossary

Bit rate (page 38)

Value indicating the amount of video data compressed in a DVD per second. The unit is Mbps (Mega bit per second). 1 Mbps indicates that the data per second is 1,000,000 bits. The higher the bit rate is, the larger the amount of data. However, this does not always mean that you can get higher quality pictures.

Chapter (page 5)

Sections of a picture or a music piece on a DVD that are smaller than titles. A title is composed of several chapters. Each chapter is assigned a chapter number enabling you to locate the chapter you want.

Dolby Digital (page 13)

Digital audio compression technology that the Dolby Laboratories Corporation developed. This technology conforms to 5.1-channel surround sound. The rear channel is stereo and there is discrete subwoofer channel in this format. Dolby Digital provides the same 5.1 discrete channels of high quality digital audio found in Dolby Digital cinema audio systems. The good channel separation is realized because the all channel data is recorded discrete and processed in digital.

Dolby Pro Logic (page 49)

Audio signal processing technology that Dolby Laboratories Corporation developed for surround sound. When the input signal has the surround component, the Pro Logic process outputs the front, center and rear signals. The rear channel is monaural.

DTS (page 13)

Digital audio compression technology that the Digital Theater Systems, Inc. developed. This technology conforms to 5.1-channel surround. The rear channel is stereo and there is discrete subwoofer channel in this format. DTS provides the same 5.1 discrete channels of high quality digital audio found in DTS audio systems. The good channel separation is realized because the all channel data is recorded discrete and processed in digital.

DVD (page 4)

A disc that contains up to 8 hours of moving pictures even though its diameter is the same as a CD. The data capacity of a single-layer and single-sided DVD, at 4.7 GB (Giga Byte), is 7 times that of a CD. Furthermore, the data capacity of a dual-layer and singlesided DVD is 8.5 GB, a single-layer and double-sided DVD 9.4 GB, and a dual-layer and double-sided DVD 17 GB. The picture data uses the MPEG 2 format, one of the worldwide standards of digital compression technology. The picture data is compressed to about 1/40 of its original size. The DVD also uses the variable rate coding technology that changes the data to be allocated according to the status of the picture.

The audio data is recorded in Dolby Digital as well as in PCM, allowing you to enjoy more real audio presence. Furthermore, various advanced functions such as the multi-angle, multilingual, and Parental Control functions are provided with the DVD.

MPEG AUDIO (page 13)

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

Multi-angle function (page 32)

Various angles, or viewpoints of the video camera, for a scene are recorded on some DVDs.

Multilingual function (page 15, 31, 43)

Several languages for the sound or sub-titles in a picture are recorded on some DVDs.

Parental Control (page 45)

A function of the DVD to limit playback of the disc by the age of the users according to the limitation level in each country. The limitation varies from disc to disc; when it is activated, playback is completely prohibited, violent scenes are skipped or replaced with other scenes and so on.

Playback Control (PBC) (page 21)

Signals encoded on VIDEO CDs (Version 2.0) to control playback.

By using menu screens recorded on VIDEO CDs with PBC functions, you can enjoy playing simple interactive programs, programs with search functions, and so on.

Title (page 5)

The longest sections of a picture or a music piece on a DVD; a movie, etc., for a picture piece on video software; or an album, etc., for a music piece on an audio software. Each title is assigned a title number enabling you to locate the title you want.

Track (page 5)

Sections of a picture or a music piece on a CD or VIDEO

Glossary

CD. Each track is assigned a track number enabling you to locate the track you want.

VIDEO CD (page 4)

A compact disc that contains moving pictures. The picture data uses the MPEG 1 format, one of the worldwide standards of digital compression technology. The picture data is compressed to about 1/140 of its original size. Consequently, a 12 cm VIDEO CD can contain up to 74 minutes of moving pictures. VIDEO CDs also contain compact audio data. Sounds outside the range of human hearing are compressed while the sounds we can hear are not compressed. VIDEO CDs can hold 6 times the audio information of conventional audio CDs.

There are 2 versions of VIDEO CDs.

- Version 1.1: You can play only moving pictures and sounds.
- Version 2.0: You can play high-resolution still pictures and enjoy PBC functions.

This player conforms to both versions.

Language Code List

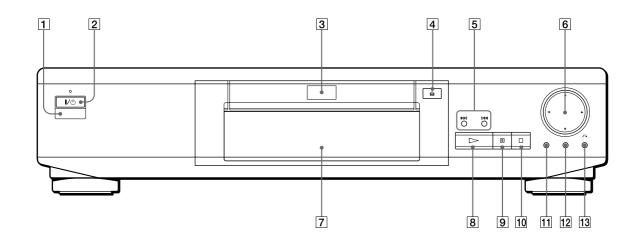
For details, see page 31, 43.

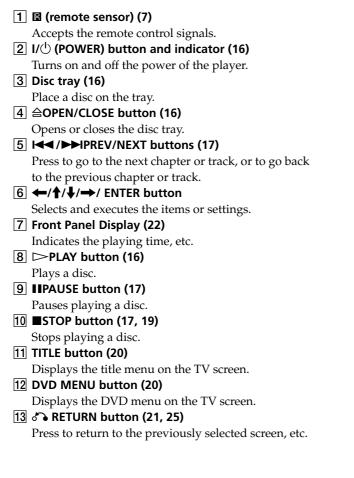
Code	Language	Code	Language	Code	Language	Code	Language
1027	Afar	1186	Scots Gaelic	1350	Malayalam	1513	Siswati
1028	Abkhazian	1194	Galician	1352	Mongolian	1514	Sesotho
1032	Afrikaans	1196	Guarani	1353	Moldavian	1515	Sundanese
1039	Amharic	1203	Gujarati	1356	Marathi	1516	Swedish
1044	Arabic	1209	Hausa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

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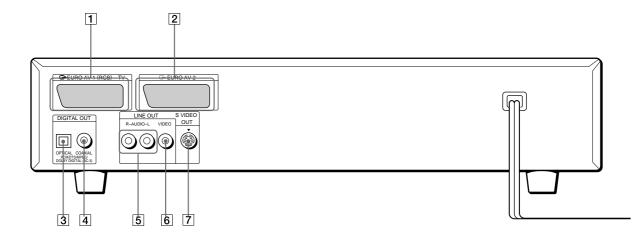
Refer to the pages indicated in parentheses for details.

Front Panel





Rear Panel



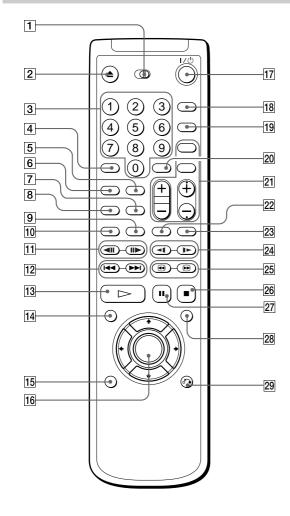
1 EURO AV 1 (RGB)-TV connector (8, 45)

Connects to the TV with EURO AV connector to output the signal from the player. You can select the video signals, the S VIDEO signals or the RGB signals as output signal format. Choose the appropriate one. (page 45)

- **2 EURO AV 2 connector (8)** Connects to the video equipment with EURO AV connector to input the signal from the equipment.
- 3 **DIGITAL OUT (OPTICAL) connector (12, 13)** Connects to an audio component using the optical digital connecting cord.
- 4 **DIGITAL OUT (COAXIAL) connector (12, 13)** Connects to an audio component using the coaxial digital connecting cord.
- **5** LINE OUT (AUDIO) connectors (9, 11) Connects to the audio input connector on the TV or receiver (amplifier).
- 6 LINE OUT (VIDEO) connectors (9, 11) Connects to the video input connector on the TV or monitor.
- **7** S VIDEO OUT connectors (9, 11) Connects to the S video input connector on the TV or monitor.

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Remote



1 TV/DVD•AV CENTER switch (51) Selects to control the player or the TV with the remote.

2 **△OPEN/CLOSE button (16)** Opens or closes the disc tray.

- **3** Number buttons Selects the items or settings.
- 4 CLEAR/ -/-- (ten's digit) button (34, 35, 36, 38) Press to return to the continuous play etc.
- **5 REPEAT button (36)** Displays the "REPEAT" display on the TV screen.
- 6 SHUFFLE button (35) Displays the "SHUFFLE" display on the TV screen.
- A↔B button (37)
 Displays the "A-B" display on the TV screen.
- PROGRAM button (33)Displays the "PROGRAM" display on the TV screen.
- **9** ANGLE button (32) Changes the angles when playing a DVD.

10 AUDIO button (30)

Changes the sound while playing a DVD or VIDEO CD.

- 11 **◄**II/II►**STEP buttons (18)** Play a disc frame by frame.
- IZ I< />→ IPREV/NEXT buttons (17) Press to go to the next chapter or track, or to go back to the previous chapter or track.
- **13** >**PLAY button (16)** Plays a disc.
- 14 TITLE button (20)

Displays the title menu on the TV screen.

- **15 DISPLAY button (24)** Displays the Control Menu display on the TV screen to set or adjust the items.
- 16 $\leftarrow/\uparrow/\downarrow/\rightarrow$ / ENTER buttons
 - Selects and executes the items or settings.
- **17 I**/⁽¹⁾ (**POWER**) **button (16**) Turns on and off the power of the player and TV.
- **SET UP button (40)** Displays the setup display on the TV screen to set or adjust the items.
- 19 TV/DVD button (51)

Press to select the input source for the TV between the TV and CD/DVD player.

20 ENTER button

Executes the items or settings.

- 21 TV/Receiver operation buttons (51) Controls TVs or AV receivers (amplifiers).
- 22 SUBTITLE button (31) Displays the SUBTITLE menu in the Control Menu display.
- 23 TIME/TEXT button (22) Displays the playing time of the disc, etc., on the front panel display.
- 24 ◄ / → SLOW buttons (18) Play a disc in slow motion.

25 €/ € (SCAN) buttons (18)

- Locate a point while monitoring the picture.
- 26 ■STOP button (17, 19) Stops playing a disc.
- **27 IIPAUSE button (17)** Pauses playing a disc.
- DVD MENU button (20)Displays the DVD menu on the TV screen.
- Press to return to the previously selected screen, etc.

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