

CD/DVD Player

Operating Instructions



DVP-K360

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 a qualified service shop.

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.

Precautions

Safety

- The power requirements and power consumption of this unit are indicated on the back of the unit. Check that the unit's operating voltage is identical with your local power supply.

Power requirements and power consumption →



- If anything falls into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- The unit is not disconnected from the mains as long as it is connected to the mains outlet, even if the unit itself has been turned off.
- Unplug the unit from the wall outlet if you do not intend to use it for an extended period of time. To disconnect the cord, pull it out by the plug, never by the cord.

Installing

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

Welcome!

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

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About This Manual

Conventions

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

Icon	Meaning
	Indicates that you can use only the remote to do the task.
	Indicates tips and hints for making the task easier.
	Indicates that the function is for DVD VIDEOS.
	Indicates that the function is for VIDEO CDs.
	Indicates that the function is for Audio CDs.

This Player Can Play the Following Discs


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

The "DVD VIDEO" logo is a trademark.

This player switches the color system, PAL or NTSC, according to the connected TV. (For details, see page 9.)

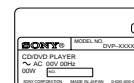
Region code of DVDs you can play on this unit

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

DVDs labeled  will also play on this unit.

If you try to play any other DVD, the message "Playback prohibited by area limitations." will appear on the TV screen.

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



Region code

Note on playback operations of DVDs and VIDEO CDs

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

Terms for discs

- **Title**

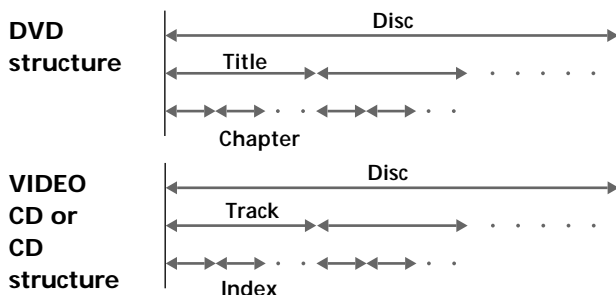
The longest section of a picture or music feature on a DVD, the movie, etc. in video software, or the name of an album in audio software.

- **Chapter**

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

- **Track**

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



- **Index (CD) / Video Index (VIDEO CD)**

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

- **Scene**

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

Note on PBC (Playback Control) (VIDEO CDs)

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

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

Discs that the player cannot play

The player cannot play discs other than the ones listed in the table on page 4. All CD-Rs other than music and VCD format CD-Rs, CD-ROMs including PHOTO CDs, data sections in CD-EXTRAS, DVD-ROMs, DVD-audio, HD (high density) layer of Super Audio CD etc., cannot be played.

Note

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

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

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents, 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 registered 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.
- When you move the player, take out any discs. If you don't, the disc may be damaged.

On adjusting volume

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

On cleaning

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

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

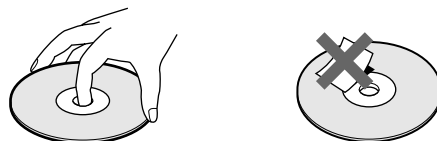
IMPORTANT NOTICE

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

Notes About the Discs

On handling discs

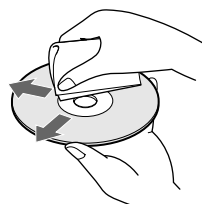
- To keep the disc clean, handle the disc by its edge. Do not touch the surface.
- Do not stick paper or tape on the disc.
If there is glue (or a similar substance) on the disc, remove the glue completely before using the disc.



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

On cleaning

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



- Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.
- Do not use a commercially available CD/DVD cleaning disc. It may cause a malfunction.

On novelty discs

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

Getting Started


This section describes how to hook up the player to a TV (with audio/video input connectors) 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.

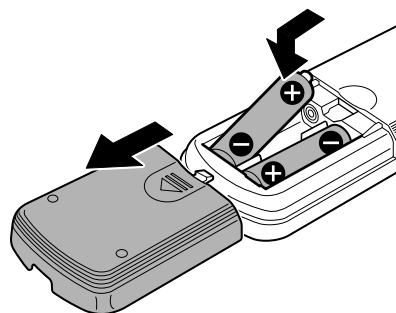
Unpacking

Check that you have the following items:

- Audio/video connecting cord (1)
- Remote commander (remote) RMT-D127E (1)
- R6 (size AA) batteries (2)

Inserting batteries into the remote

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




Notes

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

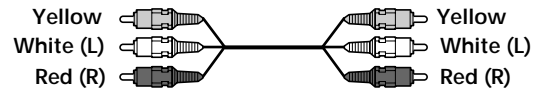
TV Hookups

This connection is for listening to the sound through TV speakers (L: left, R: right). Refer to the instructions supplied with the component to be connected. Some setup adjustments are necessary for the player. If you run Quick Setup (page 14), you can make the minimum number of basic adjustments to the player.

 You can enjoy surround sound using your TV's built-in speakers. You can use sound imaging to create virtual rear speakers from the sound of built-in TV speakers without using actual rear speakers (TVS: TV Virtual Surround). For details, see page 35.

Required cords

Audio/video connecting cord (supplied) (1)

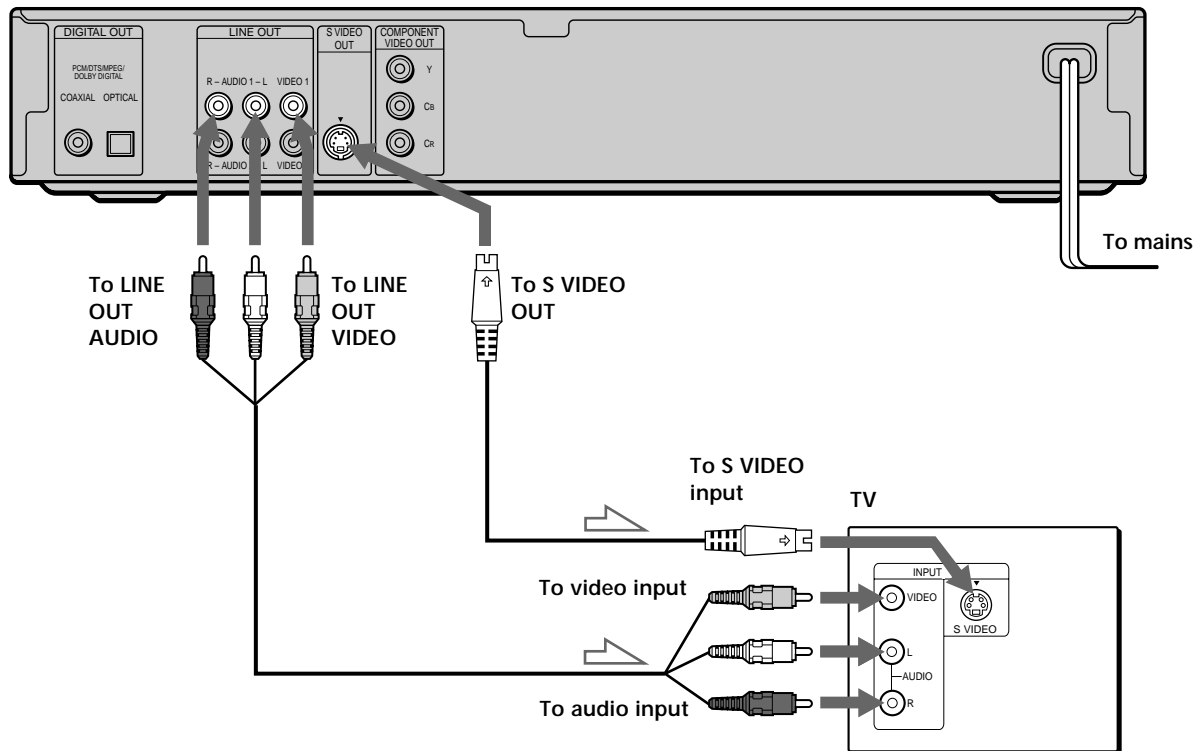


S video cord (not supplied) (1)



When connecting the cords, be sure to match the color-coded cord to the appropriate connectors on the components: Yellow (video) to Yellow, Red (right) to Red and White (left) to White. Be sure to make connections firmly to avoid hum and noise. If your TV has an S video input connector, connect the component via the S VIDEO OUT connector using an S video cord (not supplied). You will get a better picture. Refer to the instructions supplied with the TV to be connected.

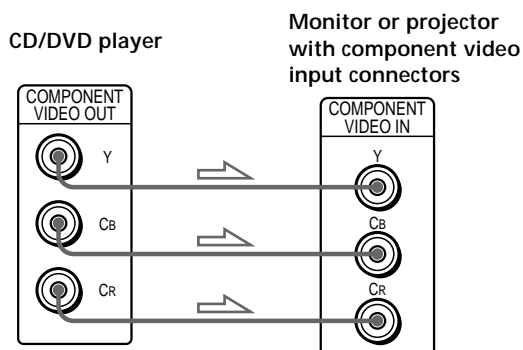
CD/DVD player



 : Signal flow

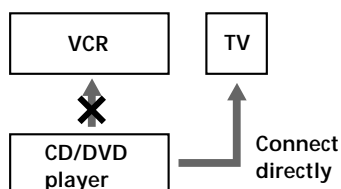
If you connect the player to a monitor or projector having component video input connectors that conform to output signals from the COMPONENT VIDEO OUT (Y, CB, CR) connectors on the player

Connect the component via the COMPONENT VIDEO OUT connectors using three video connecting cords (not supplied) of the same kind. You will get a better picture.



Notes

- Refer to the instructions supplied with the component to be connected.
- Do not connect this player to a video deck. If you do, noise may appear in the picture.



Setting the color system to your TV

The player's color system must be set depending on the TV to be connected.

- **If the color system of the TV is NTSC or DUAL**
Since the color system of the player is set to NTSC, you can use the player as it is.
- **If the color system of the TV is PAL**
To change the color system of the player to PAL, hold POWER down while pressing **II** on the player. The power indicator lights up in green and changes to red. Then release **II**.




You can check the color system of the player

Press POWER on the player and then press **I/II** on the remote. The power indicator lights up in green. When "NTSC" appears on the front panel display, the color system of the player is set to NTSC. When "NTSC" does not appear, the color system is set to PAL.

Receiver (Amplifier) Hookups

This connection is for listening to the sound through speakers connected to a receiver without a built-in DTS, Dolby* Digital or MPEG audio decoder. Refer as well to the instructions supplied with the component to be connected.

 You can enjoy surround sounds even if you connect front speakers only

You can use sound imaging to create virtual rear speakers from the sound of the front speakers (L, R) without using actual rear speakers (TVS: TV Virtual Surround). For details, see page 35.

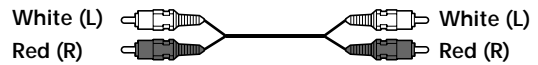
Note

You cannot use the karaoke function with the DIGITAL OUT connectors.

* Manufactured under license from Dolby Laboratories. "Dolby," "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works. ©1992-1997 Dolby Laboratories. All rights reserved.

Required cords

Audio connecting cord (not supplied) (1)



S video cord (not supplied) (1)



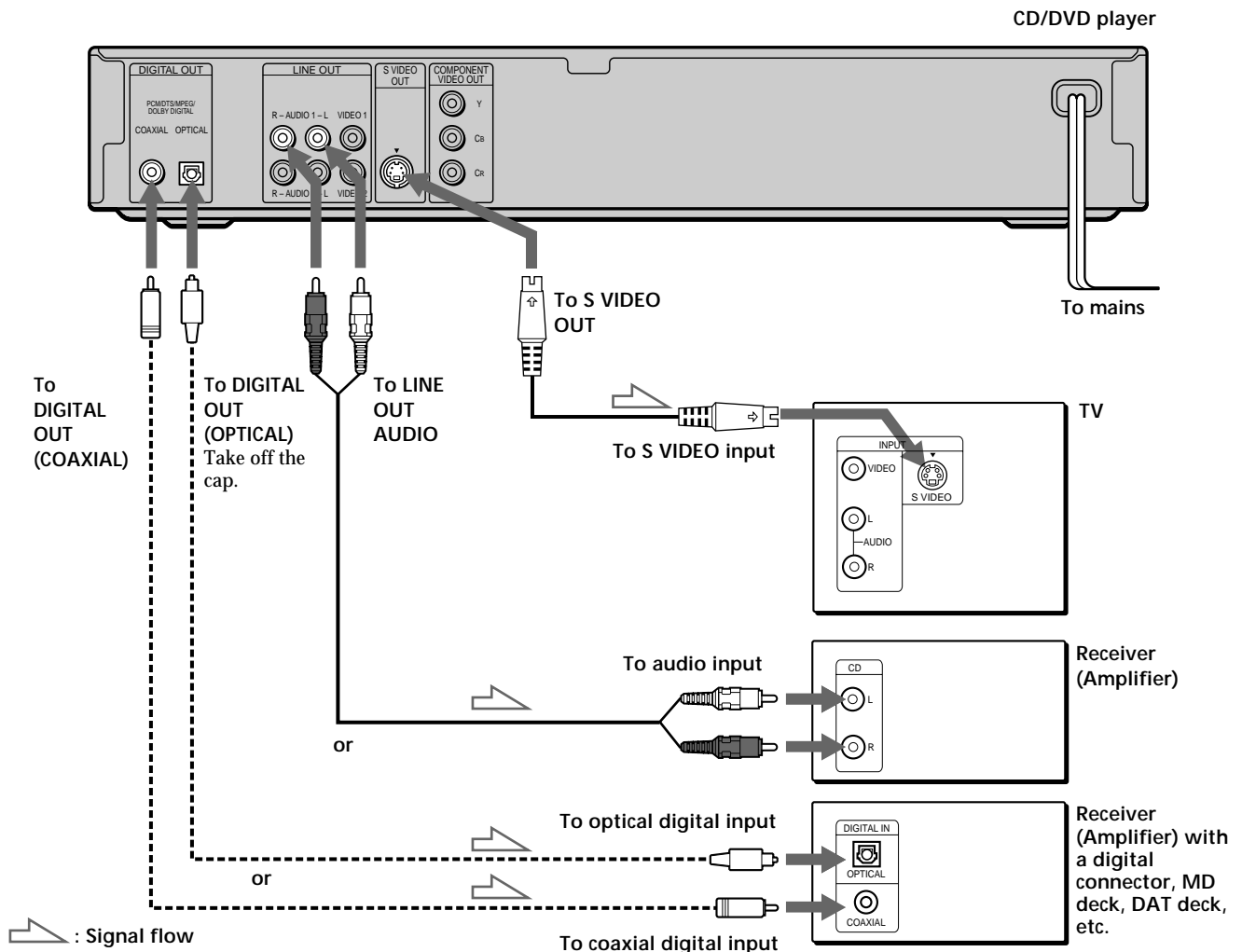
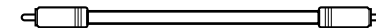
When connecting the cords, be sure to match the color-coded cord to the appropriate connectors on the components: Red (right) to Red and White (left) to White. Be sure to make connections firmly to avoid hum and noise.

If you have a digital component such as a receiver (amplifier) with a digital connector, DAT or MD, connect the component via the DIGITAL OUT OPTICAL or COAXIAL connector using an optical or coaxial digital connecting cord (not supplied).

Optical digital connecting cord (not supplied) (1)



Coaxial digital connecting cord (not supplied) (1)



Notes

- You cannot enjoy a picture with an S video signal if your TV does not conform to the S video signal. When your TV does not have an S VIDEO input, connect the component via the LINE OUT VIDEO connector using the video connecting cord (not supplied) instead of the S video cord. For details, see page 8.
- Refer to the instructions supplied with your TV.
- Refer to the instructions supplied with the component to be connected.
- You cannot make digital audio recordings of discs recorded in multichannel surround format directly using an MD deck or DAT deck.
- If you select one of the TVS settings (page 35) while playing a DVD, the player does not output the following signals from the DIGITAL OUT (COAXIAL and OPTICAL) jacks.
 - Dolby Digital signals (when you set “DOLBY DIGITAL” in “AUDIO SETUP” to “D-PCM”)
 - MPEG audio signals

Setups for the player

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

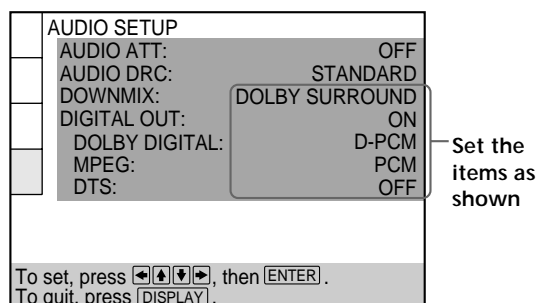
If you run Quick Setup (page 14), you can make the minimum number of basic adjustments to the player.

When you connect a receiver (amplifier) which has a digital connector and lacks a built-in DTS, Dolby Digital or MPEG audio decoder, or a digital component such as a DAT or MD deck

The “AUDIO SETUP” (page 65) items in the setup display must be set as shown in the illustration below.

These are the default settings and do not need to be adjusted when you first connect the player.

Refer to page 56 for displaying the “AUDIO SETUP” menu.



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 audio decoder (not supplied). The player outputs the surround sound signals from the DIGITAL OUT OPTICAL and COAXIAL connectors.

Using a receiver (amplifier) having the OPTICAL or COAXIAL connector and 6 speakers, you can enjoy even greater real audio presence in the comfort of your own home.

Notes

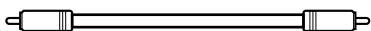
- When a DVD has a sound track with 7.1 channels recorded in MPEG audio format, the output audio signals are mixed down to 5.1 channels.
- You cannot use the karaoke function with the DIGITAL OUT connectors.

Required cords

Optical digital connecting cord* (not supplied) (1)



Coaxial digital connecting cord* (not supplied) (1)



S video cord (not supplied) (1)



* 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 mains lead to mains or press the POWER switch before completing all connections.
- Refer to the instructions supplied with the component to be connected.
- The cord connectors should be fully inserted into the connectors. A loose connection may cause hum and noise.

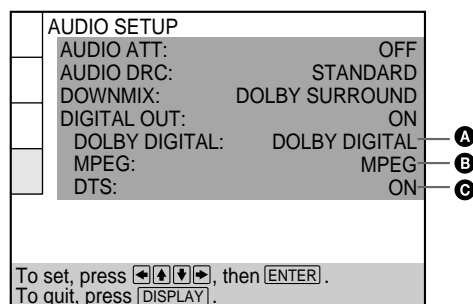
Setups for the player

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

If you run Quick Setup (page 14), you can make the minimum number of basic adjustments to the player (except for the **B** setting below).

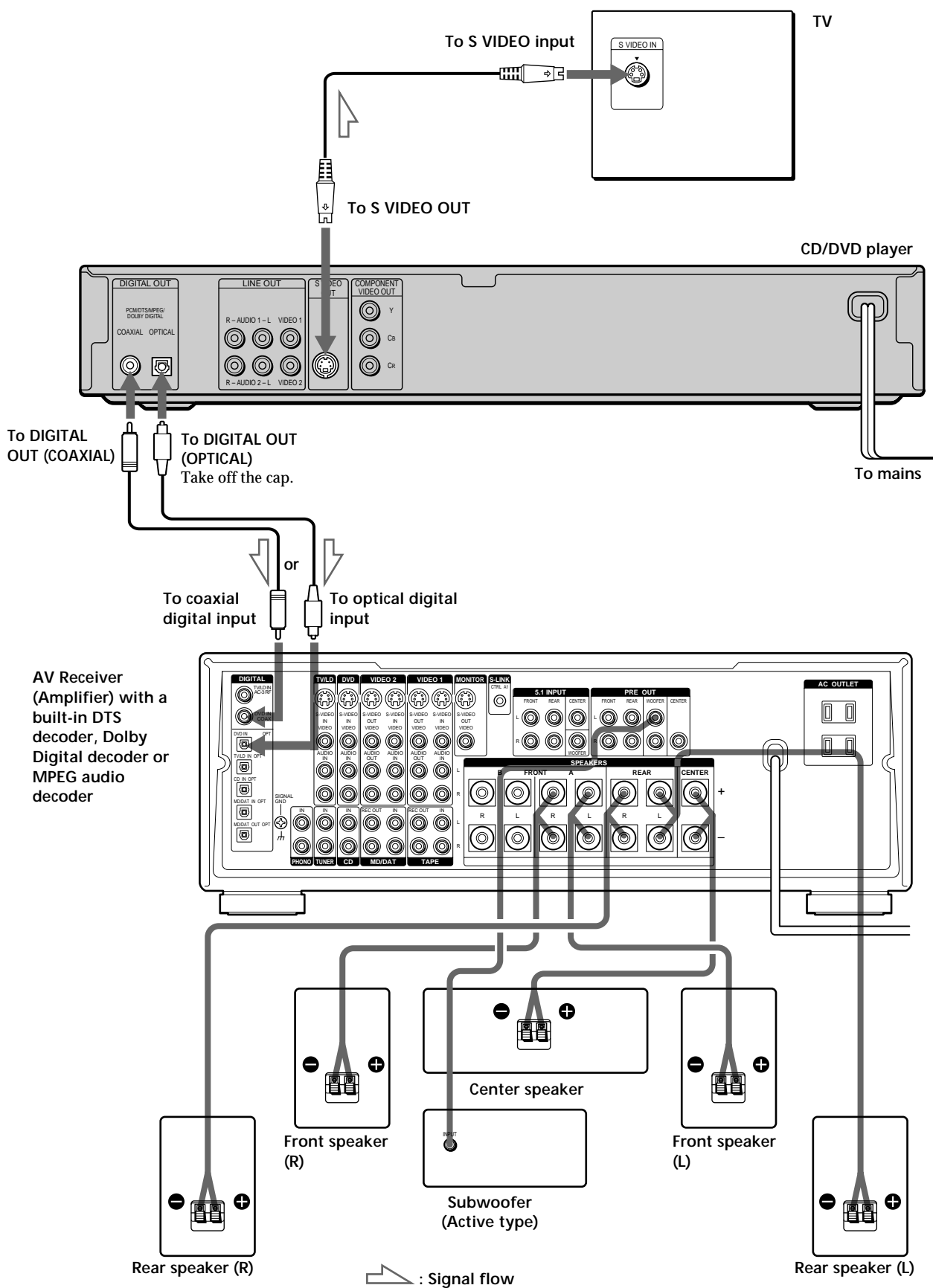
To enjoy the surround sound effects of this connection, the following items must be set as shown below. Refer to page 56 for displaying the "AUDIO SETUP" menu.

- **When you connect an audio component with a built-in Dolby Digital decoder **A****
Set "DIGITAL OUT" in "AUDIO SETUP" to "ON" and then set "DOLBY DIGITAL" to "DOLBY DIGITAL" in the setup display. (page 66)
- **When you connect an audio component with a built-in MPEG decoder **B****
Set "DIGITAL OUT" in "AUDIO SETUP" to "ON" and then set "MPEG" to "MPEG" in the setup display. (page 66)
- **When you connect an audio component with a built-in DTS decoder **C****
Set "DIGITAL OUT" in "AUDIO SETUP" to "ON" and then set "DTS" to "ON" in the setup display. (page 66)



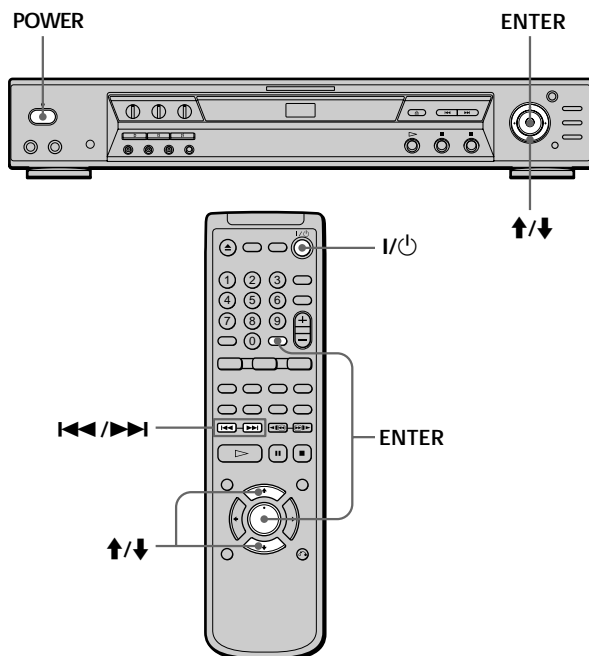
Notes

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

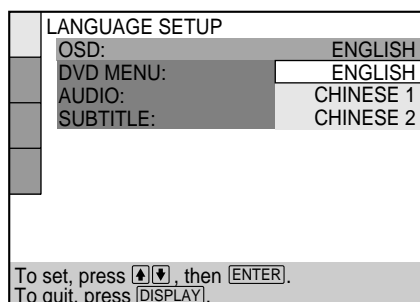


Quick Setup

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



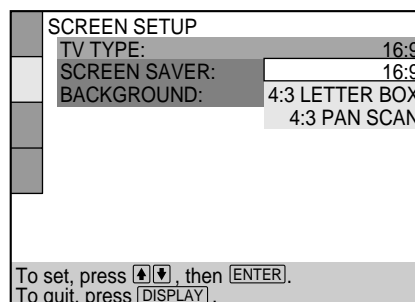
- 1 Turn on the TV.
- 2 Switch the input selector on the TV to the player.
- 3 Press POWER on the player and press I/⏻ on the remote.
“Press [ENTER] to run QUICK SETUP.” appears at the bottom of the screen. If this message does not appear, select “QUICK” under “SETUP” in the Control Menu (page 56) to run Quick Setup.
- 4 Press ENTER without inserting a disc.
The setup display for selecting the language used in the on-screen display appears.



- 5 Press ↑/↓ to select a language.
The player uses the language selected here to display the DVD menu and subtitles as well.

- 6 Press ENTER.

The setup display for selecting the aspect ratio of the TV to be connected appears.

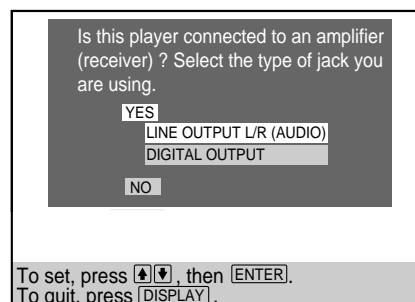


- 7 Press ↑/↓ to select the item.

TV type	You select
Wide-screen TV or 4:3 standard TV with the wide-screen mode	16:9
4:3 standard TV	4:3 LETTER BOX or 4:3 PAN SCAN

- 8 Press ENTER.

The setup display for selecting the type of connector used to connect your receiver (amplifier) appears.



- 9 Press ↑/↓ to select the item, then press ENTER.

If you connect	You select
No amplifier (receiver)	NO
Amplifier (receiver) to LINE OUT AUDIO	LINE OUTPUT L/R (AUDIO)
Amplifier (receiver) to DIGITAL OUT (COAXIAL or OPTICAL)	DIGITAL OUTPUT

- When “NO” or “LINE OUTPUT L/R (AUDIO)” is selected, Quick Setup is finished and connections are complete.
- When “DIGITAL OUTPUT” is selected, the setup display for “DOLBY DIGITAL” appears. Proceed to Step 10.

10 Press \uparrow/\downarrow to select the item.

Set "DOLBY DIGITAL" to "DOLBY DIGITAL" only when you connect an AV receiver (amplifier) having a Dolby Digital decoder to the DIGITAL OUT OPTICAL or COAXIAL connector.

AUDIO SETUP	
AUDIO ATT:	OFF
AUDIO DRC:	STANDARD
DOWNMIX:	DOLBY SURROUND
DIGITAL OUT:	ON
DOLBY DIGITAL:	D-PCM
MPEG:	D-PCM
DTS:	DOLBY DIGITAL
To set, press \uparrow/\downarrow , then ENTER .	
To quit, press DISPLAY .	

11 Press ENTER.

DTS is selected.

AUDIO SETUP	
AUDIO ATT:	OFF
AUDIO DRC:	STANDARD
DOWNMIX:	DOLBY SURROUND
DIGITAL OUT:	ON
DOLBY DIGITAL:	D-PCM
MPEG:	PCM
DTS:	OFF
	OFF
	ON
To set, press \uparrow/\downarrow , then ENTER .	
To quit, press DISPLAY .	

12 Press \uparrow/\downarrow to select the item.

Set "ON" only when you connect an AV receiver (amplifier) having a DTS decoder to the DIGITAL OUT OPTICAL or COAXIAL connector.

13 Press ENTER.

Quick Setup is finished. All connections and setup operations are complete.

If your AV receiver (amplifier) has an MPEG audio decoder, set "MPEG" to "MPEG" (page 66) in the setup display (page 56).

Note

You can directly start Quick Setup only when you run it for the first time.

To run Quick Setup a second time, press **DISPLAY** on the remote or player when the player is in stop mode, and select "QUICK" under "SETUP" in the Control Menu (page 56).

Enjoying the surround sound effects

To enjoy the surround sound effects of this player or your receiver (amplifier), the following items must be set as described below. Each of these are the default settings and do not need to be adjusted when you first connect the player.

You will find the following setup items in the setup display (page 56), not in the Quick Setup. Select "AUDIO SETUP" in the setup display, then set the required items as follows.

If you connect no receiver (amplifier) (page 8)
No additional settings are needed.

If you connect a receiver (amplifier) without a built-in DTS, Dolby Digital or MPEG audio decoder to the LINE OUT AUDIO connector (page 10)

Set "DOWNMIX" to "DOLBY SURROUND."

If the sound distorts even when the volume is turned down, set "AUDIO ATT" to "ON."

If you connect a receiver (amplifier) without a built-in DTS, Dolby Digital or MPEG audio decoder to the DIGITAL OUT COAXIAL or OPTICAL connector (page 10)

After setting "DIGITAL OUT" to "ON," set "DOLBY DIGITAL" to "D-PCM." Set "DOWNMIX" to "DOLBY SURROUND."

Operation Sound Effects (Sound Feedback)

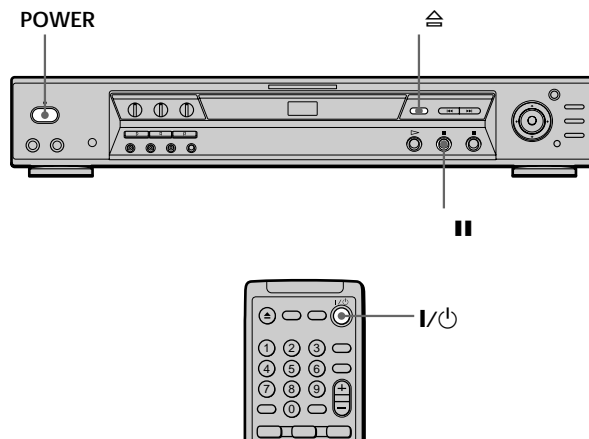
The player beeps when the following operations are performed.

The default setting of the Sound Feedback function is set to off.

Operation	Operation sound
Power is turned on	One beep
Power is turned off	Two beeps
▷ is pressed	One beep
⏏ is pressed	Two beeps
Playback is stopped	One long beep
Operation is not possible	Three beeps

In karaoke mode, the player beeps when the following operations are performed using buttons on the player or on the remote. For details about the karaoke operations, see page 45.

Operation	Operation sound
When you turn the karaoke mode on	One beep
When you turn the karaoke mode off	Two beeps
When you turn on: KARAOKE PON, VOCAL, VOCAL SUPPORT	One beep
When you turn off: KARAOKE PON, KARAOKE STAR, VOCAL, VOCAL SUPPORT	Two beeps
KEY CONTROL:	
⏏	Two beeps
⏏ at the maximum	Three beeps
⏏ at the minimum	Three beeps
VOCAL SELECT (for DVDs):	
1+2	Two beeps
1	One beep
2	One beep
VOCAL SELECT (for CDs/VIDEO CDs/Super VCDs):	
L+R	Two beeps
STEREO	One beep
RESERVE:	
When the player waits for the next disc	Two beeps after one long beep (stop)
When all reserved titles or tracks are finished	One long beep (stop)
EFFECT MODE:	
OFF	Two beeps
1, 2	One beep



- 1 Press **POWER** on the player, then press **I/O** on the remote.

The power indicator lights up in green.

When there is a disc in the player, press and remove the disc. Then press again to close the disc tray.

- 2 Press and hold **⏏** on the player for more than two seconds.

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

To turn off the Sound Feedback Function

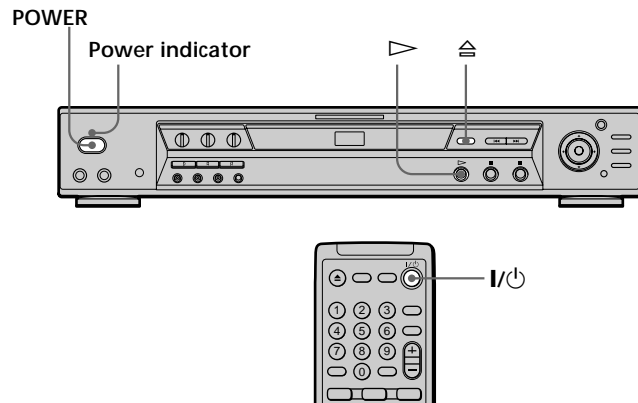
When there is no disc in the player, press and hold **⏏** on the player for more than two seconds. You will hear two beeps and the Sound Feedback function is turned off.

Playing Discs

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

Playing Discs DVD VIDEO CD CD

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



1 Turn on your TV.

Turn on the TV and switch the input selector on the TV to the player.

When using a receiver (amplifier)

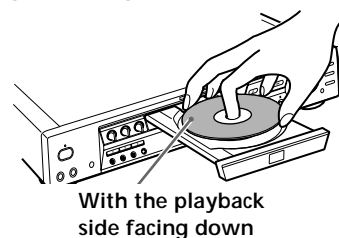
Turn on the receiver (amplifier) and select the appropriate channel.

2 Press POWER on the player.

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

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

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



With the playback side facing down

4 Press .

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

After following Step 4

■ When playing a DVD

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

■ When playing a VIDEO CD

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

Playing Discs

To turn on the player

Press **POWER** on the player. The player enters standby mode and the power indicator lights up in red. Then press **I/⏻** on the remote. The player turns on and the power indicator lights up in green. In standby mode, the player also turns on by pressing **⏻** on the player or by pressing **▷**.

To turn off the player

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

To disconnect the power of the player, press **POWER** on the player.

Notes on playing DTS sound tracks on a CD

- Do not play DTS sound tracks without first connecting the player to an audio component having a built-in DTS decoder. The player outputs the DTS signal via the DIGITAL OUT OPTICAL and COAXIAL connectors even if "DTS" in "AUDIO SETUP" is set to "OFF" in the setup display, and may affect your ears or cause your speakers to be damaged.
- Set the sound to "STEREO" when you play DTS sound tracks on a CD. (See "Changing the Sound" on page 31.) If you set the sound to "1/L" or "2/R," no sound will come from the DIGITAL OUT OPTICAL and COAXIAL connectors.
- If you play a CD with a DTS sound track, a loud noise may come out from the LINE OUT AUDIO connectors, affecting your ears or causing the speakers to be damaged.

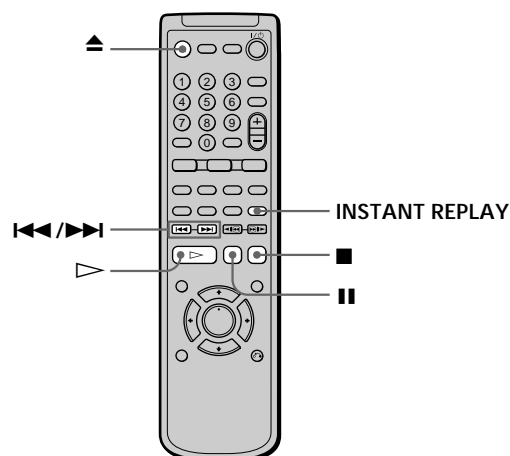
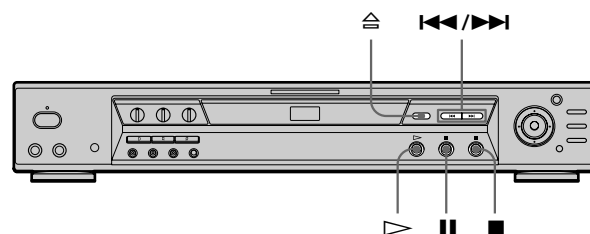
Notes on playing DTS sound tracks on a DVD

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

Notes

- If you leave the player or the remote in pause or stop mode for 15 minutes, the screen saver image appears automatically. It will also appear if you play back a CD for more than 15 minutes. To make the screen saver image go away, press **▷**. (If you want to set the screen saver function to off, see page 60.)
- If you don't operate the player or the remote for more than 30 minutes when a disc is not being played, the player automatically enters standby mode. (Auto Power Off function)
- While playing a disc, do not turn off the player by pressing **POWER**. Doing so may cancel the settings of the menu. When you turn off the player, press **■** first to stop playback and then press **I/⏻** on the remote. After the power indicator lights up in red and the player enters standby mode, press **POWER** on the player.

Additional operations



To	Operation
Stop	Press ■
Pause	Press
Resume play after pause	Press or ▷
Go to the next chapter, track or scene in continuous play mode	Press ▶▶
Go back to the preceding chapter, track or scene in continuous play mode	Press ◀◀
Stop play and remove the disc	Press ▲
Replay a previous scene (DVD only)	Press INSTANT REPLAY

About the Instant Replay function

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

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

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

Searching for a Particular Point on a Disc

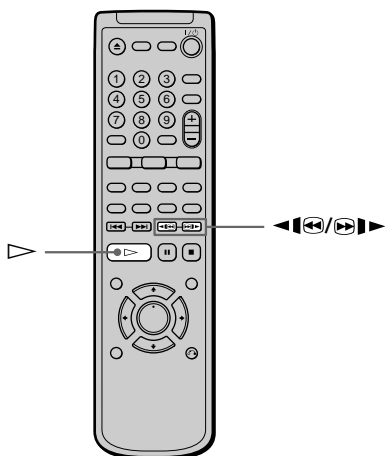


DVD

VIDEO
CD

CD

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



Note

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

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

While a disc is playing, press **FF1** to locate a point in playback direction, or press **FR1** to locate a point in opposite direction. When you find the point you want, press **Stop** to return to normal speed playback. Each time you press **FF1** or **FR1** during scan, the playback speed changes. Three speeds are available. With each press, the indication changes as follows:

Playback direction

x2 (DVD/CD only) → FF1 → FF2

Opposite direction

x2 (DVD only) → FR1 → FR2

The x2/x2 playback speed is about twice the normal speed.
The FF2/FR2 playback speed is faster than FF1/FR1.

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

DVD

VIDEO
CD

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

Each time you press **Play/Pause** or **Stop** during Slow-motion play, the playback speed changes. Two speeds are available. With each press, the indication changes as follows:

Playback direction


SLOW2 ↔ SLOW1

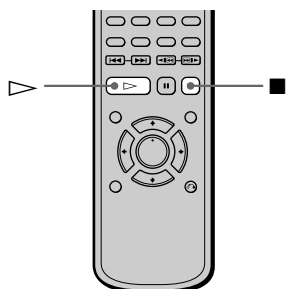
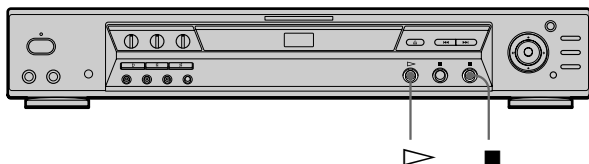
Opposite direction (DVD only)

SLOW2 ↔ SLOW1

The SLOW2/SLOW2 playback speed is slower than SLOW1/SLOW1.



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

The player remembers the point where you stopped the disc and when “RESUME” appears on the front panel display, you can resume playback from that point. As long as you do not open the disc tray, Resume Play will work even if the player enters standby mode by pressing  on the remote.



Notes

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


- 1 While playing a disc, press  to stop playback. “RESUME” appears on the front panel display and “Disc will restart from current point. To start from beginning, press  again.” appears on the TV screen.
If “RESUME” does not appear, Resume Play is not available.

- 2 Press .

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



To play from the beginning of the disc

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

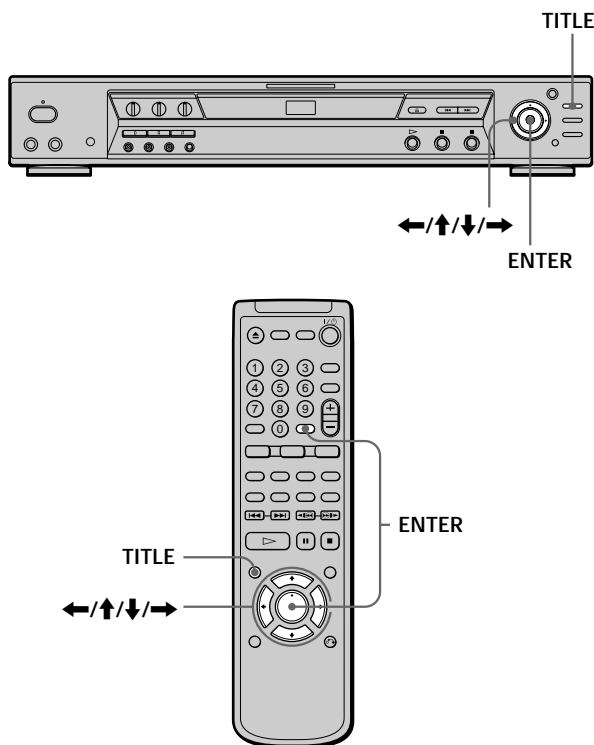


Using the DVD's Menu **DVD**

Some DVDs have a title menu or a DVD menu that is provided with DVDs only.

Using the title menu

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



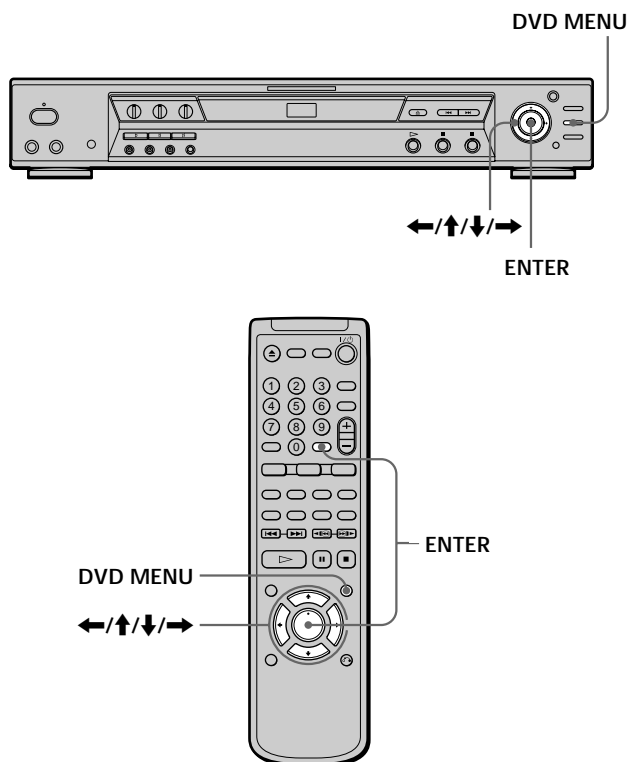
- 1 Press TITLE.**
The title menu appears on the TV screen. The contents of the menu vary from disc to disc.
- 2 Press $\leftarrow/\uparrow/\downarrow/\rightarrow$ to select the title you want to play.**
Depending on the disc, you can use the number buttons to select the title.
- 3 Press ENTER.**
The player starts playing the selected title.

Notes


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

Using the DVD menu

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



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

 If you want to select the language for the DVD menu Change the setting using "DVD MENU" in "LANGUAGE SETUP" in the setup display. For details, see page 59.

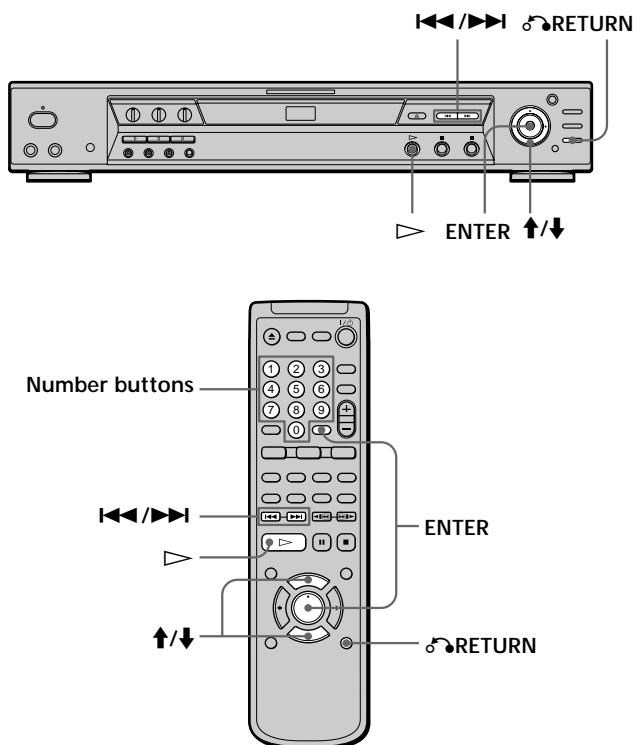
Note

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)

VIDEO
CD

When playing VIDEO CDs with PBC (Play Back Control) functions (Ver. 2.0 discs), you can enjoy simple interactive operations, search functions, and other such operations. PBC Playback allows you to play VIDEO CDs interactively by following the menu on the TV screen. On this player, you can use the number buttons, ENTER, ◀▶, ⏮, ⏭, ⏪, ⏩ and RETURN during PBC Playback.



To go back to the menu

Press RETURN.

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

There are two ways.

- Before you start playing, select the track you want using ◀▶ or ⏮, then press ENTER or ▷.
- Before you start playing, select the track number using the number buttons on the remote, then press ENTER or ▷.

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

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

Notes

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

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

Using the Front Panel Display

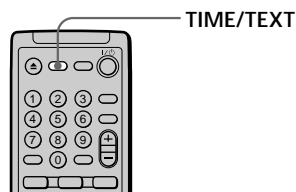


DVD

VIDEO
CD

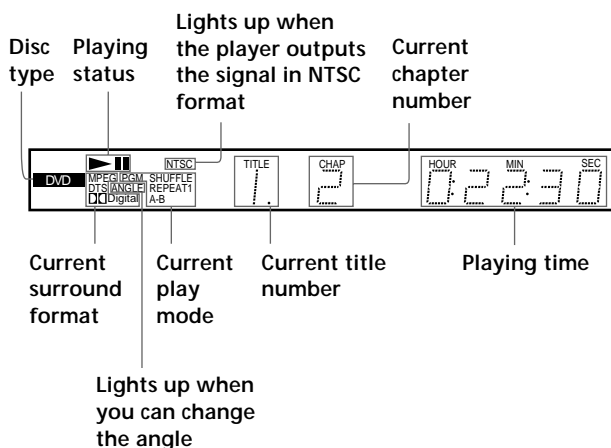
CD

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



When playing back a DVD **DVD**

Displaying information while playing the disc

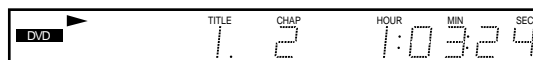


Checking the remaining time

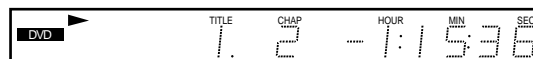
Press TIME/TEXT.

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

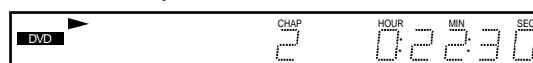
Playing time and number of the current title



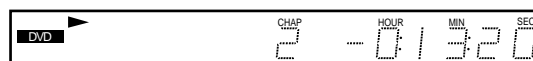
Remaining time of the current title



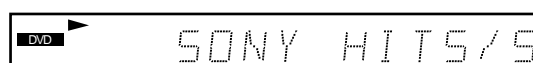
Playing time and number of the current chapter



Remaining time of the current chapter



Text



Press TIME/TEXT

Note

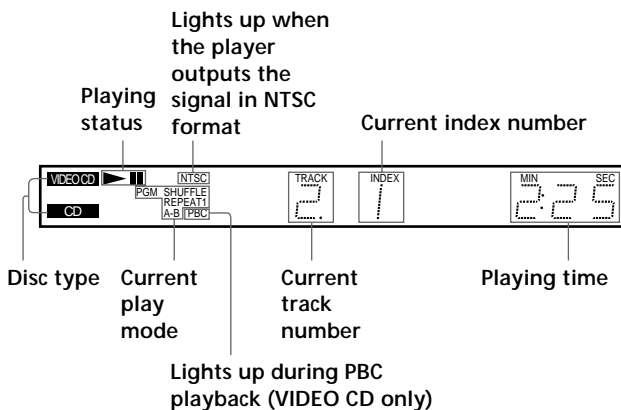
On some DVDs, the chapter number or time may not appear or you may not be able to change the front panel display.

Using the Front Panel Display

When playing back a CD/VIDEO CD



Displaying information while playing a disc



When playing VIDEO CDs with PBC functions

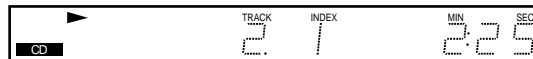
The current scene number is displayed instead of the current track number and the current index number. In this case, the front panel display does not change when you press TIME/TEXT. If TEXT is recorded on the disc, the front panel display changes to the Text display when you press TIME/TEXT (see page 30).

Checking the remaining time

Press TIME/TEXT.

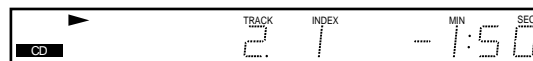
Each time you press TIME/TEXT while playing a disc, the display changes as shown in the following chart.

Playing time and current track number



Press TIME/TEXT

Remaining time of the current track



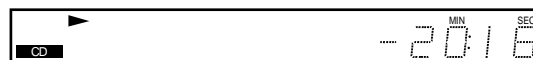
Press TIME/TEXT

Playing time of the disc



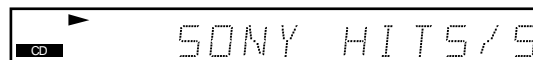
Press TIME/TEXT

Remaining time of the disc



Press TIME/TEXT

Text



Press TIME/TEXT

Note

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

Using Various Functions with the Control Menu

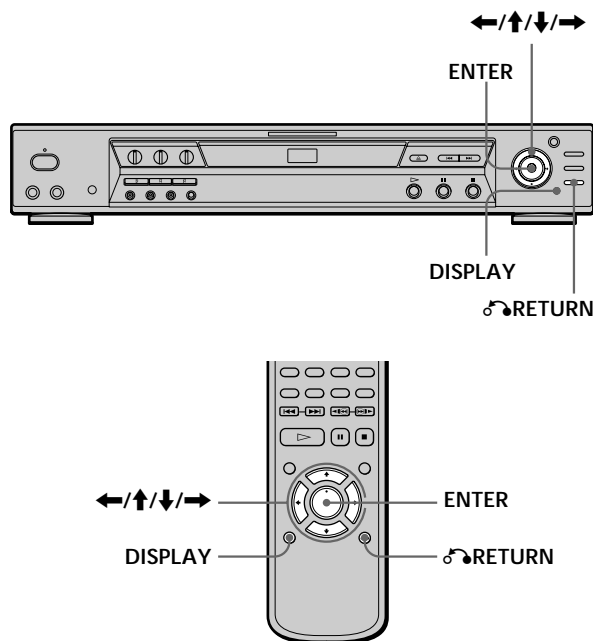
This chapter describes how to play discs in various modes and how to use the convenient features of the on-screen menu (Control Menu).

Using the Control Menu Display

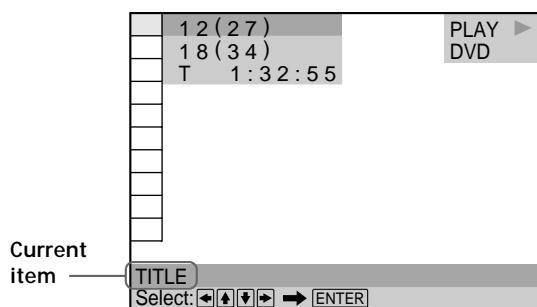
Using the Control Menu display, you can select the starting point, play scenes in any order you like, change the viewing angles, make TV Virtual Surround settings, and other such operations.

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

For details on each Control Menu display item, see pages 28 to 44.

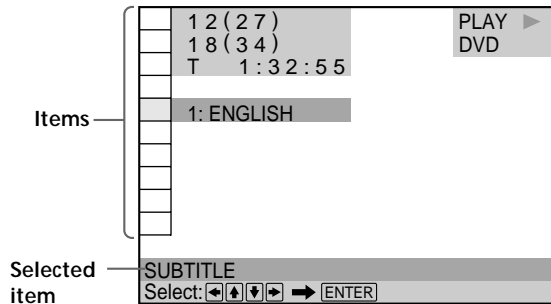


- 1 Press DISPLAY to show the Control Menu display on the TV screen.

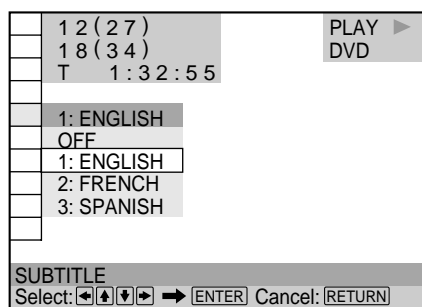


Using the Control Menu Display

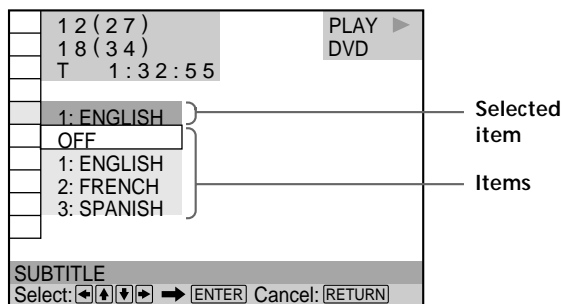
2 Select the item you want using ↑/↓.



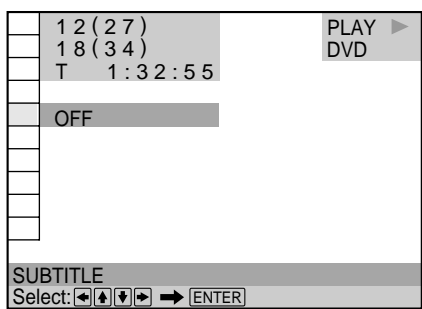
3 Press ENTER.



4 Select the item you want using ↑/↓.



5 Press ENTER.

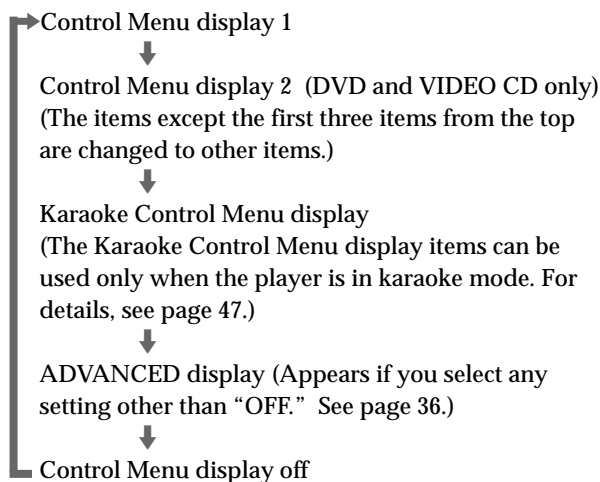


To cancel while making a selection

Press ⏮ RETURN.

To display other items

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



The Control Menu display items are different depending on the disc.




You can select some items directly


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


Note

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

Control Menu Item List

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

 **CHAPTER (DVD only) (page 28)/**
INDEX (VIDEO CD only) (page 28)

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

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

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

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

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

You can also search by inputting the time code.


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

 **AUDIO (page 31)**

If the DVD is recorded with multilingual tracks, you can select the language you want while playing the DVD.

If the DVD is recorded in multiple audio formats (PCM, Dolby Digital, MPEG or DTS), you can select the audio format you want while playing the DVD.

With CDs or VIDEO CDs, you can select the sound from the right or left channel and listen to the sound of the selected channel through both the right and left speakers.

 **SUBTITLE (DVD only) (page 33)**


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

 **ANGLE (DVD only) (page 34)**

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

 **TVS (page 35)**

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

 **ADVANCED (DVD only) (page 36)**

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

 **CUSTOM PARENTAL CONTROL (page 37)**

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

The same password is used for both Parental Control (page 62) and Custom Parental Control.

 **SETUP (page 56)**

You can adjust the player using the "QUICK" or "CUSTOM" setup option. Select "QUICK" to make the minimum number of basic adjustments to use the player. Select "CUSTOM" to make a full range of adjustments such as adjustments to the image and sound quality, Parental Control, etc. To return these adjustments to the default settings, select "RESET." For details about the setup display, see page 56.

 **PROGRAM (page 39)**

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 41)**

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

 **REPEAT (page 42)**

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

 **A-B REPEAT (page 43)**

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

 **BNR (page 44)**

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

For details about the Karaoke Control Menu display, see "Using the Karaoke Control Menu Display" on page 47.

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



DVD

VIDEO
CD

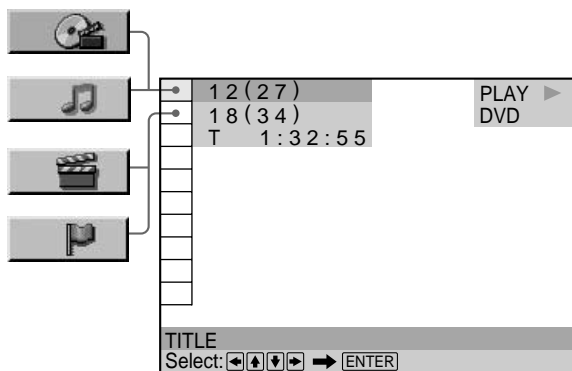
CD

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

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

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

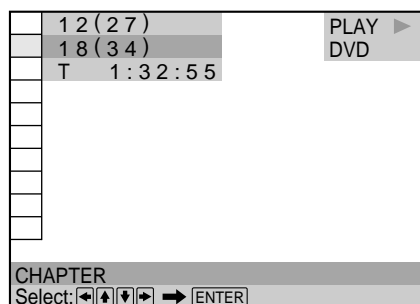
When you play back a VIDEO CD/CD, "TRACK" and "INDEX" are displayed. When you play back a VIDEO CD with PBC functions, "SCENE" is displayed.



- 1 Select "TITLE," "CHAPTER," "TRACK," "INDEX" or "SCENE" using \uparrow/\downarrow .

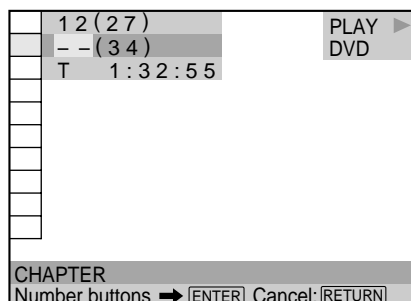
"** (**)" is highlighted. (** refers to a number)

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



- 2 Press \rightarrow or ENTER.

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



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

The player starts playback at the selected number.

To cancel the number, press CLEAR before pressing ENTER.

To cancel while making a selection

Press \rightarrow RETURN.



You can search for the title, chapter, track, index or scene using the SEARCH MODE button

- 1 Press SEARCH MODE on the remote repeatedly to select "TITLE," "CHAPTER," "TRACK," "INDEX" or "SCENE."
- 2 Press the number buttons to select the number of the title, chapter, track, index or scene, then press ENTER.

Notes

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

Checking the Playing Time and Remaining Time



DVD

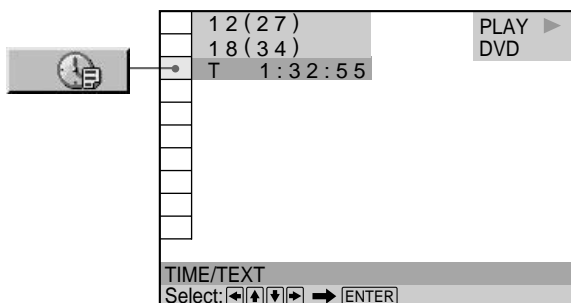
VIDEO
CD

CD

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

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

You can also check the DVD TEXT or CD TEXT. See page 30.



When playing a DVD

■ TIME/TEXT

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

When playing a VIDEO CD (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

When playing a Super VCD

The remaining time cannot be displayed.

■ TIME/TEXT

- T * * * * *: Playing time of the current track

You can select "TIME/TEXT" directly

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

Selecting a Starting Point Using the Time Code

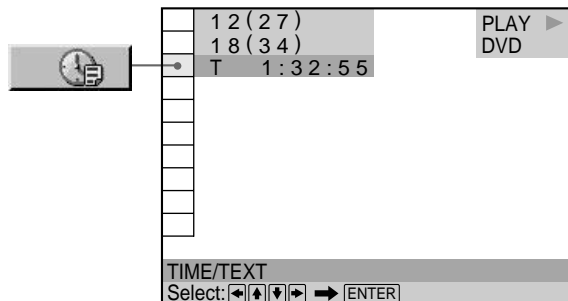


DVD

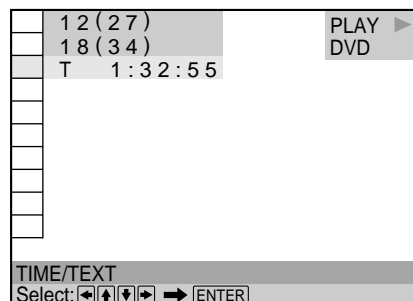
You can search for a starting point by inputting the time code.

Select "TIME/TEXT" after pressing DISPLAY.

The time code corresponds to the approximate actual playing time. For example, to search for a scene 2 hours 10 minutes 20 seconds past the beginning, input 2:10:20.

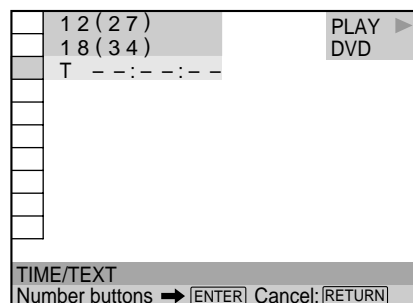


- 1 Select "T * * * * *" (playing time of the current title) when playing a DVD.



- 2 Press → or ENTER.

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



Selecting a Starting Point Using the Time Code

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

To cancel while making a selection

Press RETURN.

You can perform time code search using the SEARCH MODE button

- 1 Press SEARCH MODE on the remote repeatedly to select "TIME/TEXT."
- 2 Input the time code using the number buttons, then press ENTER.

Viewing the Disc Information



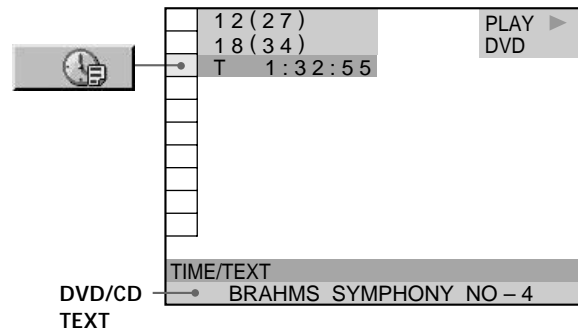
DVD

VIDEO
CD

CD

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

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



You can select "TIME/TEXT" directly

Press TIME/TEXT on the remote. To display DVD/CD TEXT, press TIME/TEXT until DVD/CD TEXT is displayed.



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

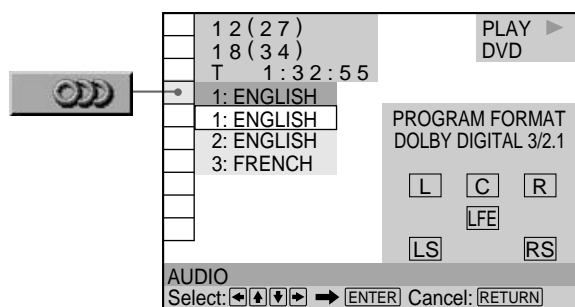
Notes

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

Changing the Sound DVD VIDEO CD CD

If the DVD is recorded with multilingual tracks, you can select the language you want while playing the DVD. If the DVD is recorded in multiple audio formats (PCM, Dolby Digital, MPEG or DTS), you can select the audio format you want while playing the DVD. With stereo CDs or VIDEO CDs, you can select the sound from the right or left channel and listen to the sound of the selected channel through both the right and left speakers. In this case, the sound loses its stereo effect. For example, with a disc containing a song, the right channel may output the vocals and the left channel may output the instrumental. If you only want to hear the instrumental, you can select the left channel and hear it from both speakers.

Select "AUDIO" after pressing DISPLAY.



■ AUDIO

When playing a DVD

Select the language. The languages you can select are different depending on the DVD. When 4 digits are displayed, they represent the language code. Refer to the language code list on page 74 to see which language the code represents.

When the same language is displayed two or more times, the DVD is recorded in multiple audio formats. The current audio format is shown on the "PROGRAM FORMAT" display.

When playing a VIDEO CD or a CD

The default setting is underlined.

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

When playing a Super VCD

The default setting is underlined.

- 1:STEREO: The stereo sound of the audio track 1
- 1:1/L: The sound of the left channel of the audio track 1 (monaural)
- 1:2/R: The sound of the right channel of the audio track 1 (monaural)
- 2:STEREO: The stereo sound of the audio track 2
- 2:1/L: The sound of the left channel of the audio track 2 (monaural)
- 2:2/R: The sound of the right channel of the audio track 2 (monaural)



You can select "AUDIO" directly

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

Notes

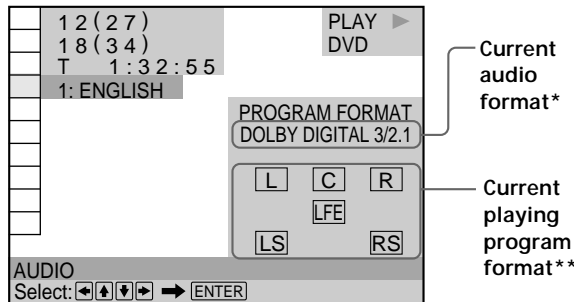
- Depending on the DVD, you may not be able to change the languages even if multilingual tracks are recorded on the DVD.
- While playing the CD/VIDEO CD, standard stereo playback will be resumed when:
 - you open or close the disc tray
 - the player enters standby mode by pressing I/⏻ on the remote
 - you turn the power off by pressing POWER on the player
- While playing the DVD, the sound may be changed when:
 - you open or close the disc tray
 - you change the title
- If "DTS" is set to "OFF" in "AUDIO SETUP," the DTS track selection option will not appear on the screen even if the disc contains DTS tracks.
- While playing the Super VCD on which the audio track 2 is not recorded, no sound will come out when you select "2:STEREO," "2:1/L" or "2:2/R."

Changing the Sound

Displaying the audio information of the disc **DVD**

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

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

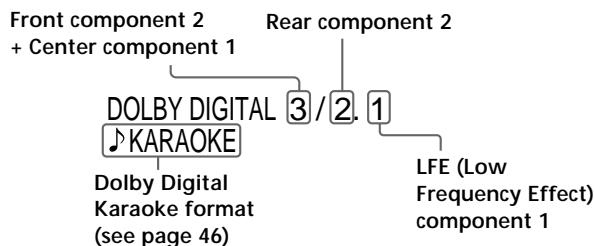


Current audio format*

Current playing program format**

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

For Dolby Digital 5.1 ch:

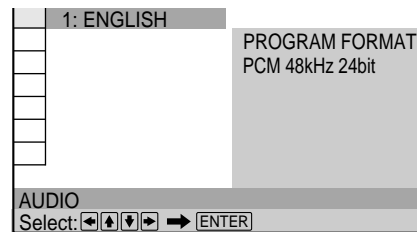


** The letters in the program format display mean the following sound component:

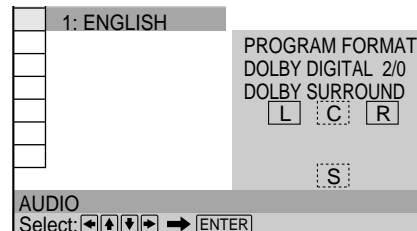
- L: Front (left)
- R: Front (right)
- C: Center
- LS: Rear (left)
- RS: Rear (right)
- S: Rear (monaural) – the rear component of the Dolby Surround processed signal or the Dolby Digital signal.
- LFE: LFE (Low Frequency Effect)

The display examples are as follows:

• PCM (stereo)

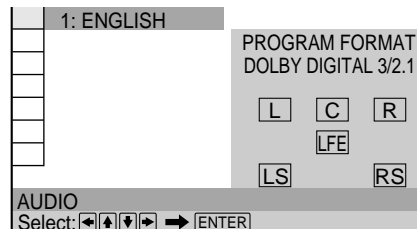


• Dolby Surround

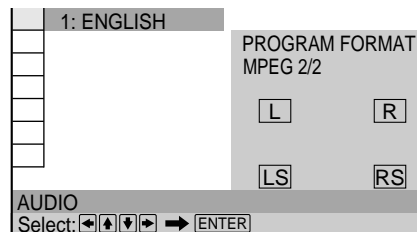


• Dolby Digital 5.1ch

"LFE" appears only when a disc contains an LFE signal component. "LFE" remains on the "PROGRAM FORMAT" display even if the LFE signal component is not being output.

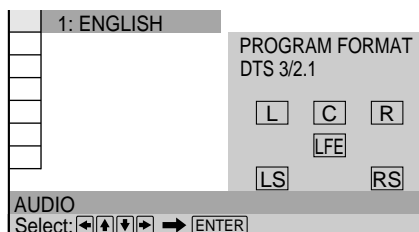


• MPEG

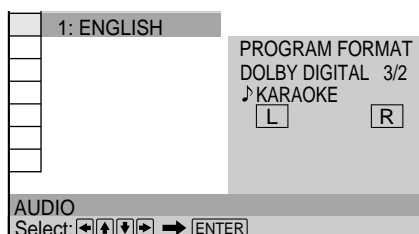


- DTS

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



- Dolby Digital Karaoke format
(For details, see page 46.)



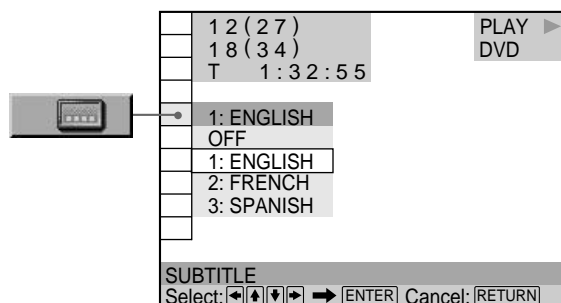
Displaying the Subtitles

DVD

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

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

Select “SUBTITLE” after pressing DISPLAY.



■ SUBTITLE

Select the language. The languages you can select are different depending on the DVD. When 4 digits are displayed, they indicate the language code. Refer to the language code list on page 74 to see which language the code represents.



You can select “SUBTITLE” directly

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

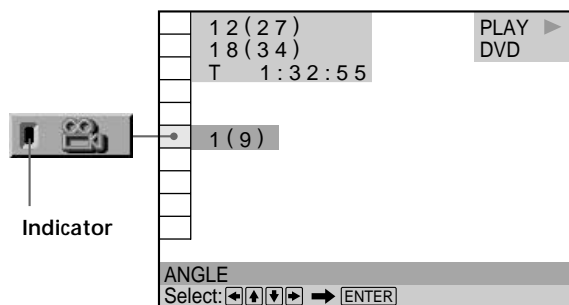
Notes

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

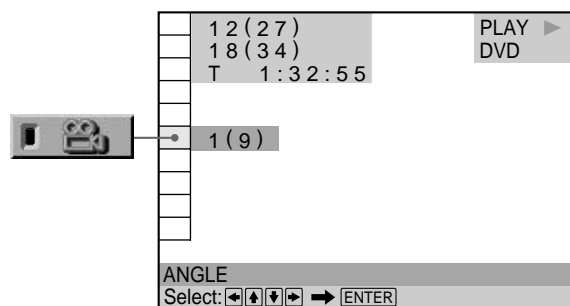
Changing the Angles DVD

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

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

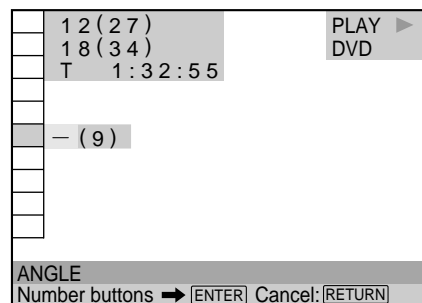


1 Select "ANGLE."



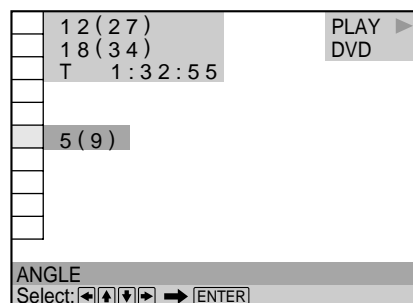
2 Press →.

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



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

The angle is changed to the selected angle.



You can select "ANGLE" directly

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

Notes

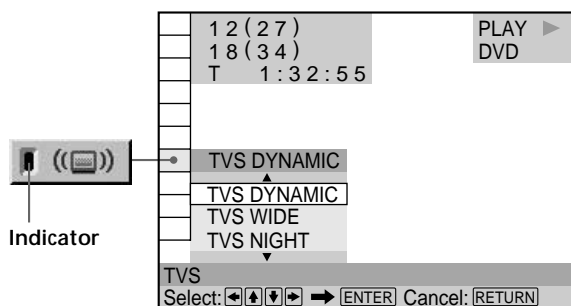
- The number of angles varies from disc to disc or from scene to scene. The number of angles that can be changed on a scene is equal to the number of angles recorded for that scene.
- Depending on the DVD, you may not be able to change the angles even if multi-angles are recorded on the DVD.

TV Virtual Surround Sound Settings (TVS)

When you connect a stereo TV or 2 front speakers, TV Virtual Surround lets you enjoy surround sound effects by using sound imaging to create virtual rear speakers from the sound of the front speakers (L: left, R: right) without using actual rear speakers. This function is designed to work with the LINE OUT AUDIO connectors. Note that if you select one of the TVS settings while playing a DVD, the player does not output the following signals from the DIGITAL OUT OPTICAL or COAXIAL connector.

- Dolby Digital signals (when you set “DOLBY DIGITAL” in “AUDIO SETUP” to “D-PCM”) (page 66)
- MPEG audio signals

Select “TVS” after pressing DISPLAY. When you select any item except “OFF,” the “TVS” indicator lights up in green.



■ TVS

Select the desired item. For details on each item, see “Effects of each item.”

The default setting is underlined.

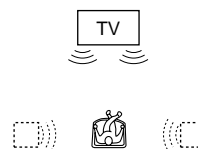
- OFF
- TVS DYNAMIC
- TVS WIDE
- TVS NIGHT
- TVS STANDARD

Effects of each item

TVS (TV Virtual Surround) DYNAMIC

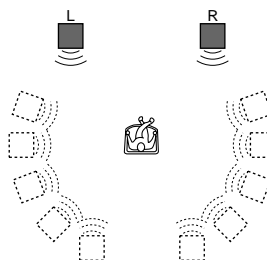
Uses sound imaging to create virtual rear speakers from the sound of the front speakers (L, R) without using actual rear speakers. The virtual speakers are reproduced as shown in the illustration below. The sound imaging effect is distinct and clearly reproduces each aural element of the audio track.

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



TVS (TV Virtual Surround) WIDE

Uses sound imaging to create virtual rear speakers from the sound of the front speakers (L, R) without using actual rear speakers. The virtual speakers are reproduced as shown in the illustration below. This gives the sound an expanded effect that fills the area surrounding the listener. This mode is effective when the distance between the front L and R speakers is short, such as with built-in speakers on a stereo TV.



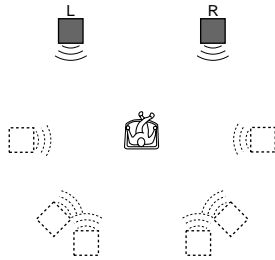
TVS (TV Virtual Surround) NIGHT

The large sounds, such as explosions, are suppressed, but the quieter sounds are unaffected. This feature is useful when you don't want to disturb other people but still want to hear the dialog and enjoy the surround sound effects of TVS WIDE.

TV Virtual Surround Sound Settings (TVS)

TVS (TV Virtual Surround) STANDARD

Uses sound imaging to create virtual rear speakers from the sound of the front speakers (L, R) without using actual rear speakers. The virtual speakers are reproduced as shown in the illustration below. Use this setting when you want to use TVS with 2 separate speakers and retain the sound quality.



L: Left front speaker
R: Right front speaker
□: Virtual speakers

Notes

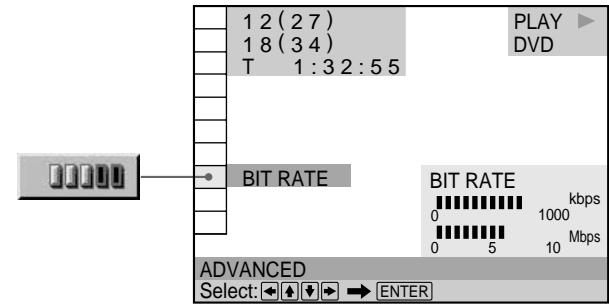
- When you select an effect, the sound cuts off for a moment.
- When the playing signal does not contain a signal for the rear speakers (page 32), the surround effects may be difficult to hear.
- When you select one of the TVS modes, turn off the surround setting of the connected TV or amplifier (receiver).
- Make sure that your listening position is between and at an equal distance from your speakers, and that the speakers are located in similar surroundings. Otherwise, the TVS effect may be hard to discern.
- TVS NIGHT only works with Dolby Digital and MPEG audio discs. However, not all discs will respond to the TVS NIGHT function in the same way.
- If you use the DIGITAL OUT OPTICAL or COAXIAL connector and set "DOLBY DIGITAL" to "DOLBY DIGITAL" in "AUDIO SETUP," sound will come from your speakers but it will not have the TVS effect.
- Do not use the TVS function together with the KARAOKE SURROUND function (page 49). You will not be able to enjoy the surround sound effect presented by TVS.

Checking the Play Information

You can check information such as the bit rate or the disc layer that is being played.

While playing a disc, the approximate bit rate of the playback picture is always displayed as Mbps (Mega bit per second) and the audio as kbps (kilo bit per second).

Select "ADVANCED" after pressing DISPLAY.



■ ADVANCED

The default setting is underlined.

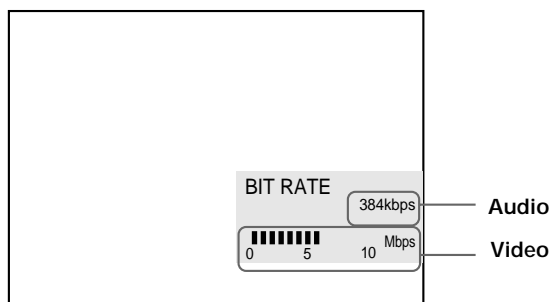
When playing a DVD

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

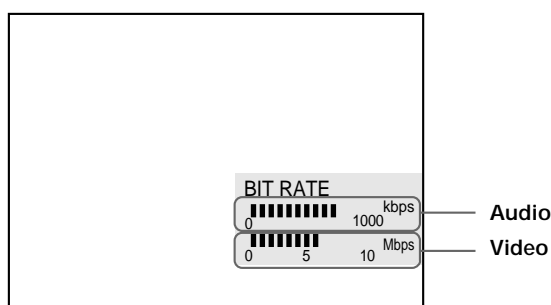
Displays of each item

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

BIT RATE

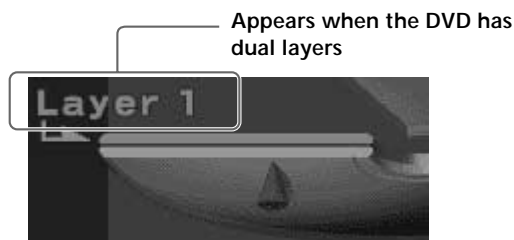


When you play MPEG audio sound tracks



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

LAYER



Indicates the approximate point where the disc is playing. If it is a dual-layer DVD, the player indicates which layer is being read ("Layer 0" or "Layer 1"). For details on the layers, see page 72 (DVD).

Locking Discs (Custom Parental Control)

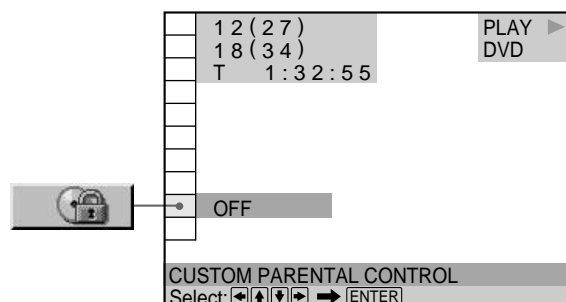


Using a registered password, you can set playback restrictions for the desired disc.

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

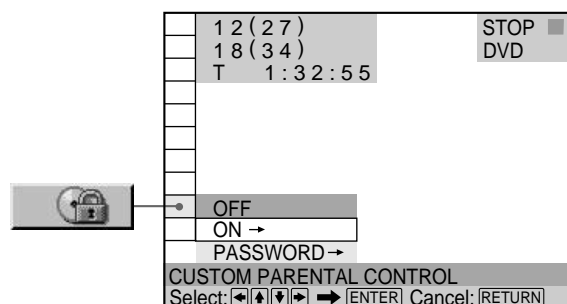
The same password is used for both Parental Control (page 61) and Custom Parental Control.

Select "CUSTOM PARENTAL CONTROL" after pressing DISPLAY.



Setting the Custom Parental Control for a disc

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

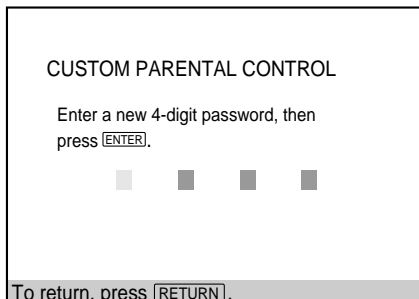


Locking Discs (Custom Parental Control)

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

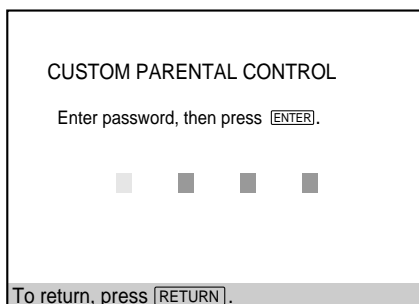
■ If you have not entered a password

The display for entering a password appears.



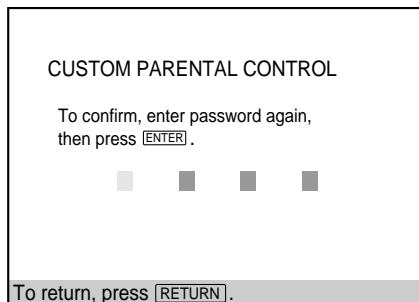
■ When you have already registered a password

The display for confirming the password appears. Skip Step 4.



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

The digits change to asterisks (*), and the display for confirming the password appears.



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

"Custom parental control is set." appears and then the screen returns to the Control Menu display.

To return to the normal screen

Press ⏮ RETURN.

To turn off the Custom Parental Control function

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

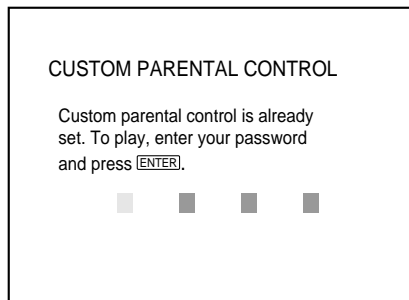
To change the password

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

Playing the disc for which the Custom Parental Control is set

- 1 Insert the disc.

The CUSTOM PARENTAL CONTROL display appears.



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

The player starts playback.

💡 If you forget your password

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

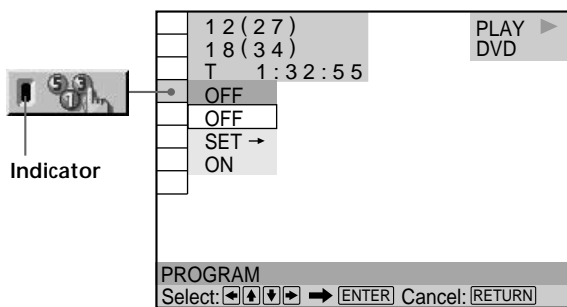
Note

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

Creating Your Own Program (Program Play) DVD VIDEO CD CD

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

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



■ PROGRAM

The default setting is underlined.

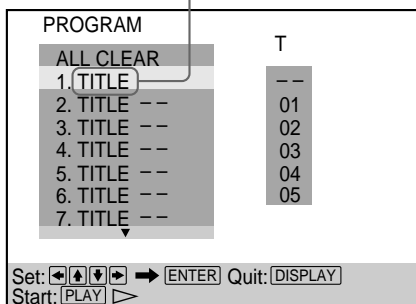
- OFF: plays normally.
- SET→: allows you to create your own program.
- ON: plays Program Play.

Creating the program

1 Select "SET→" in "PROGRAM."

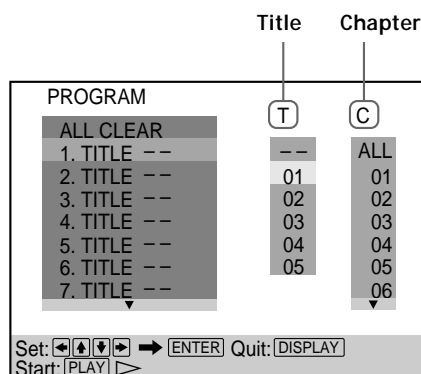
The programming display appears.

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



2 Press →.

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



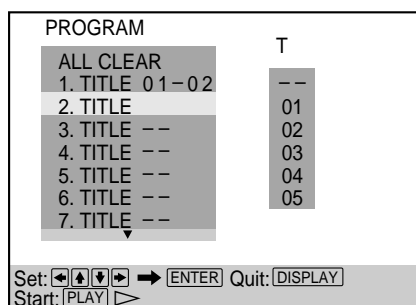
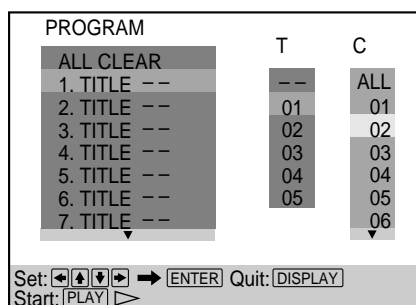
3 Select the title, chapter or track you want to program using ↑/↓, then press ENTER.

For example, select title or track 2.

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

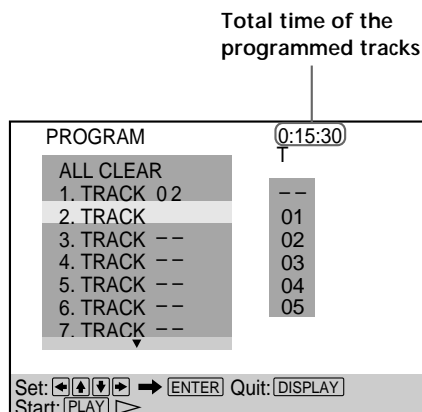
■ When playing a DVD

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



Creating Your Own Program (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 in the selected order.

- 5 Press \triangleright to start Program Play.

To stop Program Play

Press CLEAR on the remote.

To cancel programming

Press PROGRAM on the remote.

To change the program

- 1 In Step 2, select the program number of the title, chapter or track you want to change using \uparrow/\downarrow .
- 2 Follow Step 3 for new programming.

To cancel the programmed order

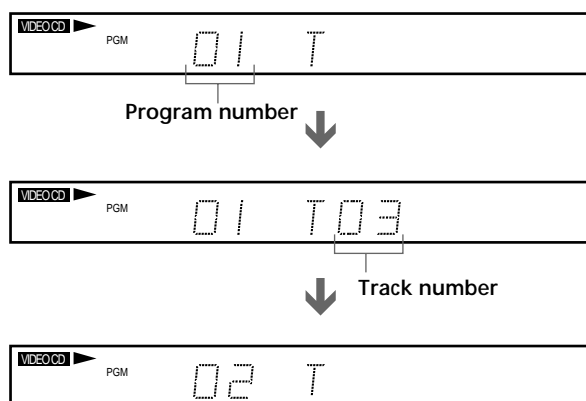
To cancel all the titles, chapters or tracks in the programmed order, select "ALL CLEAR" in Step 2.

To cancel the selected program, select the program using \uparrow/\downarrow in Step 2 then press CLEAR, or select "--" in Step 3 then press ENTER.

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

💡 You can do Repeat Play or Shuffle Play of the programmed titles, chapters or tracks
During Program Play, activate "REPEAT" or "SHUFFLE" in the Control Menu display.

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



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

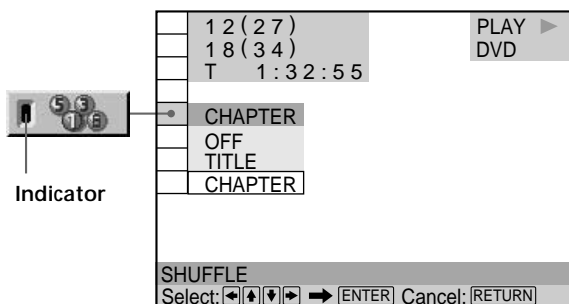
Notes

- The number of titles, chapters or tracks displayed are the same number of titles, chapters or tracks recorded on a disc.
- The program is canceled when:
 - you open or close the disc tray
 - the player enters standby mode by pressing I/⏻ on the remote
 - you turn the power off by pressing POWER on the player
- Depending on the DVD, you may not be able to perform Program Play.
- If you are using the PBC playback function, you must first stop the disc before you can set a program.
- When playing Super VCDs, the total time of the programmed tracks does not appear on the screen.
- You cannot use the Program Play function in karaoke mode.

Playing in Random Order (Shuffle Play) DVD VIDEO CD CD

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

Select “SHUFFLE” after pressing DISPLAY. When you select a shuffle mode other than “OFF,” the “SHUFFLE” indicator lights up in green.



■ SHUFFLE

Selects the Shuffle Play setting.

The default settings are underlined.

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

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

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

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

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

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

To stop Shuffle Play

Press CLEAR on the remote.

You can set Shuffle Play while the disc is stopped. After selecting the “SHUFFLE” option, press . The player starts Shuffle Play.

Notes

- Shuffle Play is canceled when:
 - you open or close the disc tray
 - the player enters standby mode by pressing I/⏻ on the remote
 - you turn the power off by pressing POWER on the player
- Up to 200 chapters in a disc can be played in random order when “CHAPTER” is selected.
- Depending on the DVD, you may not be able to perform Shuffle Play.
- You cannot perform Shuffle play during PBC playback of VIDEO CDs (page 22).

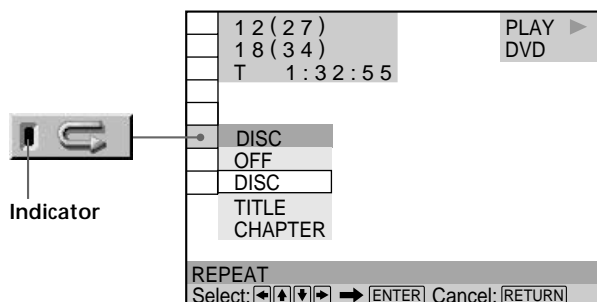
Playing Repeatedly (Repeat Play)

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

In Shuffle or Program Play mode, the player repeats the titles or tracks in the shuffled or programmed order.

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

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



■ REPEAT

Selects the Repeat Play setting.

The default settings are underlined.

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

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

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



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

When Program Play or Shuffle Play is on

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

To stop Repeat Play

Press CLEAR on the remote.

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

Notes

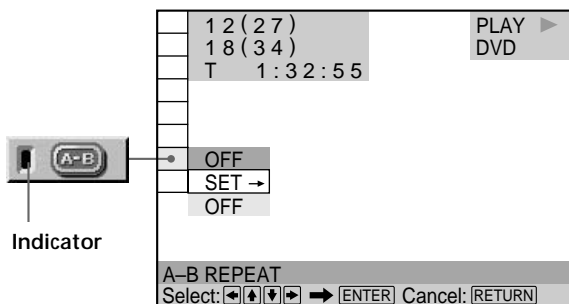
- Repeat play is canceled when:
 - you open or close the disc tray
 - the player enters standby mode by pressing I/⏻ on the remote
 - you turn the power off by pressing POWER on the player
- Depending on the DVD, you may not be able to perform Repeat Play.

Repeating a Specific Portion (A-B Repeat) DVD VIDEO CD CD

You can play a specific portion of a title, chapter or track repeatedly. This function is useful when you want to do such things as memorize lyrics.

During PBC Playback of VIDEO CDs (page 22), this function is available only while playing moving pictures.

Select "A-B REPEAT" after pressing DISPLAY. During A-B Repeat Play, the "A-B REPEAT" indicator lights up in green.



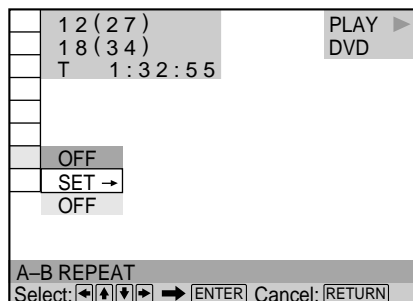
■ A-B REPEAT

The default setting is underlined.

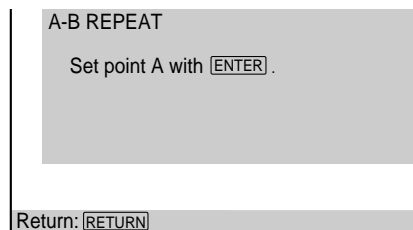
- SET→: sets the A and B points.
- OFF: does not play a specific portion of a title/chapter/track repeatedly.

Setting a portion for A-B repeat

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

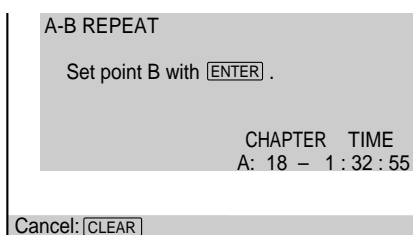


- 2 Select "SET→" and press ENTER.
The A-B REPEAT setting display appears.



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

The starting point (point A) is set.

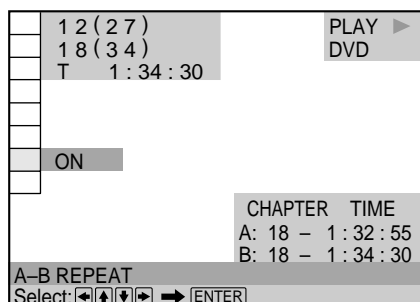


Repeating a Specific Portion (A-B Repeat)

- 4 When you reach the ending point (point B), press **ENTER** again.

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

"A-B" appears on the front panel display during A-B repeat play.



To stop A-B Repeat Play

Press **CLEAR** on the remote.

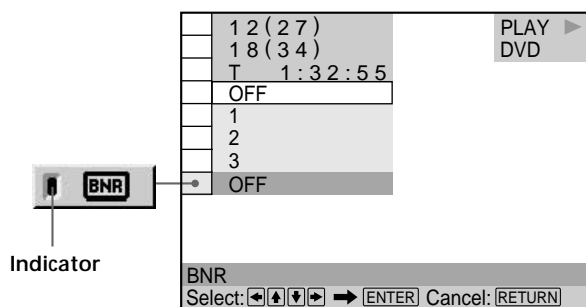
Notes

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

Adjusting the Picture Quality (BNR)

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

Select "BNR" after pressing **DISPLAY**. If you select any setting other than OFF, the "BNR" indicator lights up in green.



■ BNR

The default setting is underlined.

- OFF: resets the BNR setting.
- 1: reduces the "block noise."
- 2: reduces the "block noise" more than 1.
- 3: reduces the "block noise" more than 2.

Notes

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

Enjoying Karaoke

This chapter describes how to play discs in karaoke mode and how to use the various karaoke features .

Using Karaoke

You can enjoy karaoke (singing along with a disc) by setting this player to karaoke mode. You can connect up to two microphones (not supplied) to the player.

Setting the player to karaoke mode

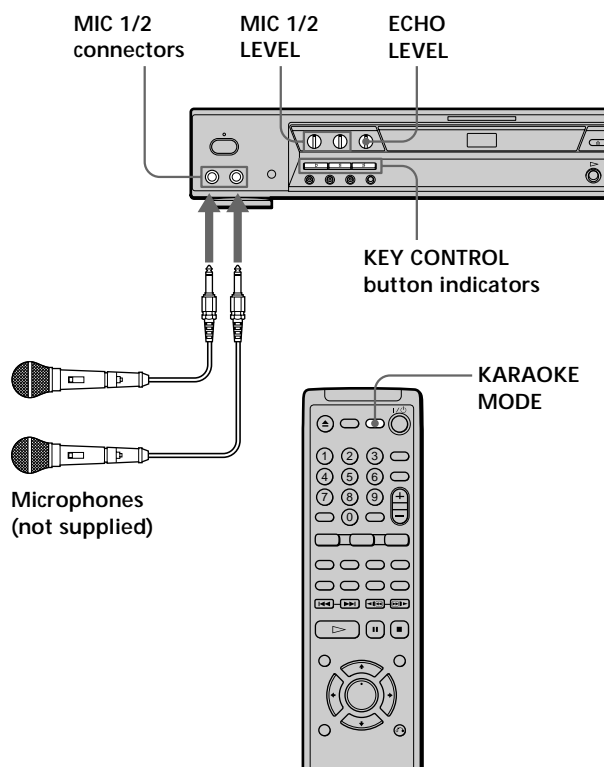
The player enters karaoke mode when a microphone is plugged into the MIC 1 or 2 connector.

The player exits from karaoke mode when you disconnect the microphones from both of the MIC 1 and 2 connectors. You may also switch karaoke mode on or off by pressing KARAOKE MODE on the remote. The KEY CONTROL button indicators light up when the player is in karaoke mode.

When you turn the karaoke mode on with DVDs or Super VCDs, the karaoke play is performed with the audio channel you selected in "AUDIO" of the Control Menu display. With CDs or VIDEO CDs, the "AUDIO" setting automatically changes to "1/L" so that only the accompaniment is played when you turn the karaoke mode on. If the vocal audio is heard with some discs, select the audio channel for the karaoke play in "AUDIO" of the Control Menu display (page 31).

Notes on karaoke mode

- You cannot use the karaoke function with the DIGITAL OUT connectors.
- You cannot use the Program Play function in karaoke mode.
- Sound tracks with a 96 kHz (PCM) sampling frequency are converted to 48 kHz sampling frequency in karaoke mode.



Adjusting the microphone

- 1 Set the MIC 1/2 LEVEL control of the MIC connector to MIN.
- 2 Plug a microphone (not supplied) into the MIC connector.
When a microphone is connected to the MIC 1 or 2 connector, the player enters karaoke mode.
- 3 Set the ON/OFF switch on the microphone to ON and turn the MIC 1/2 LEVEL control to adjust the microphone volume.
- 4 Turn the ECHO LEVEL control to adjust the echo.
The same echo level is applied to all connected microphones.

 If howling occurs

- Move the microphone away from the speakers.
- Lower the microphone volume or echo level.
- Lower the overall volume.

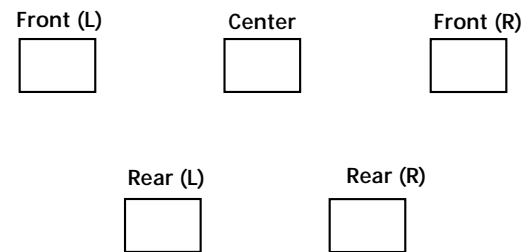
Notes

- The sound input from the microphone is not output from the DIGITAL OUT OPTICAL and COAXIAL connectors.
- You can turn the karaoke mode off even when a microphone is connected to the MIC 1 or 2 connector by pressing KARAOKE MODE on the remote. You can continue using the microphone but the echo function and the ECHO LEVEL control do not work.

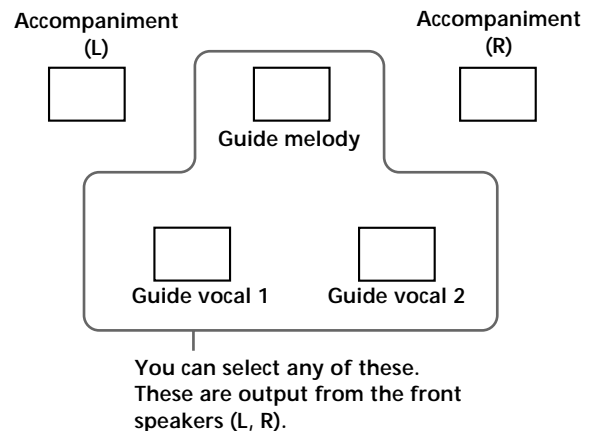
Dolby Digital Karaoke format

Dolby Digital format, which reproduces surround sound using 5 channels, contains the “Dolby Digital Karaoke” format specialized for karaoke. In the Dolby Digital Karaoke format discs, guide melody and guide vocal tracks are recorded in addition to the accompaniment. You can select them when the player is in karaoke mode.

Speaker output in normal Dolby Digital format (5 channel surround)



Speaker output in Dolby Digital Karaoke format



You can check the audio information using “AUDIO” in the Control Menu display. When playing a Dolby Digital Karaoke disc, “♪KARAOKE” appears at the current audio format (page 32).

Example:

DOLBY DIGITAL 
♪KARAOKE

- 2/0 : Recorded only with accompaniment.
- 3/0 : Recorded with guide melody.
- 3/1 : Recorded with guide melody and guide vocal.
- 3/2 : Recorded with guide melody and two kinds of guide vocals.

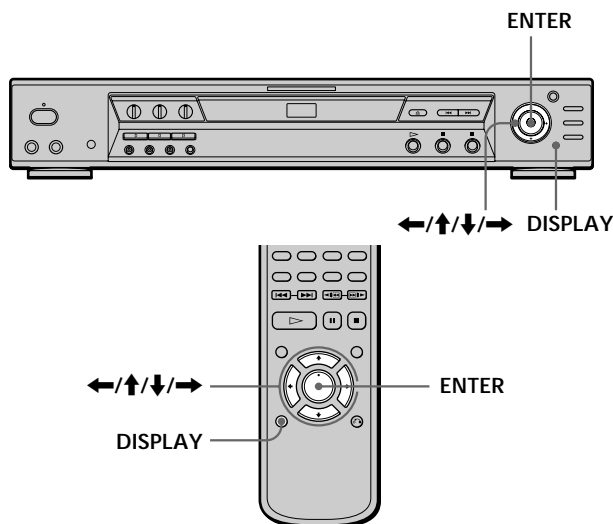
Using the Karaoke Control Menu Display DVD VIDEO CD CD

You can use the Karaoke Control Menu display when the player is in karaoke mode. Using the Karaoke Control Menu display, you can enjoy karaoke features such as changing the key, applying effects and programming the next titles and tracks.

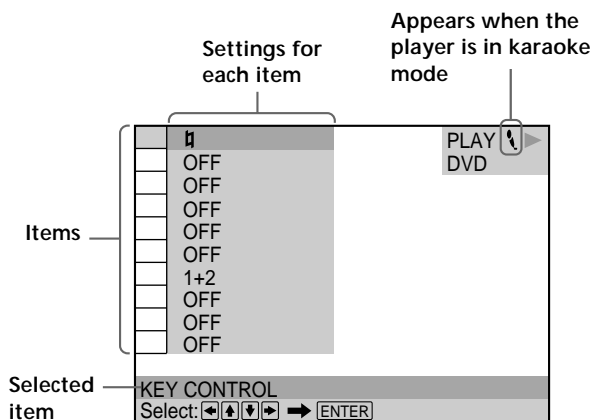
For details about each Karaoke Control Menu item, see pages 48 to 55.

Displaying the Karaoke Control Menu display

Set the player to karaoke mode (page 45), then press DISPLAY until the Karaoke Control Menu display appears. Use \uparrow/\downarrow to select item you want, then press ENTER. The Karaoke Control Menu selection operations are the same as the Control Menu operations. For details about the Control Menu operations, see "Using the Control Menu Display" on page 25.



Karaoke Control Menu display



The Karaoke Control Menu display items are different depending on the disc.

Karaoke Control Menu item list

KEY CONTROL (page 48)

You can change the key to suit your vocal range.

EFFECT MODE (page 48)

You can insert applause with or without cheers.

KARAOKE SURROUND (page 49)

The karaoke surround function gives surround effects to the accompaniment sound.

KARAOKE STAR (page 49)

The Karaoke Star function gives effects to your voice.

KARAOKE PON (page 50)

You can enjoy karaoke with a stereo-recorded disc, even if it is a non-karaoke disc, by reducing the sound of the vocals.

VOCAL (page 50)

When playing a DVD with the Dolby Digital Karaoke format in karaoke mode, you can turn on or off the guide vocal.

When playing a VIDEO CD/CD in karaoke mode, you can listen to the vocals.

VOCAL SELECT (page 51)

You can select different kind of vocals recorded in the disc.

VOCAL SUPPORT (page 52)

The recorded vocal will play when you stop singing during a song.

GUIDE MELODY (DVD only) (page 53)

You can listen to the guide melody.

AUTO PAUSE (VIDEO CD/CD only) (page 53)

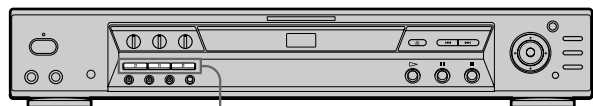
You can set the player to pause every time a track is played.




RESERVE (page 54)

You can select and reserve up to 24 titles/tracks when the player is in karaoke mode. You can reserve additional titles/tracks even if somebody is performing karaoke.

Changing the Key (Key Control)

You can change the key to suit your vocal range. While playing karaoke, press one of the KEY CONTROL buttons repeatedly to find the key that suits your vocal range.






KEY CONTROL , ,  buttons and indicators
These indicators light up when you select one of the keys.






KEY , 

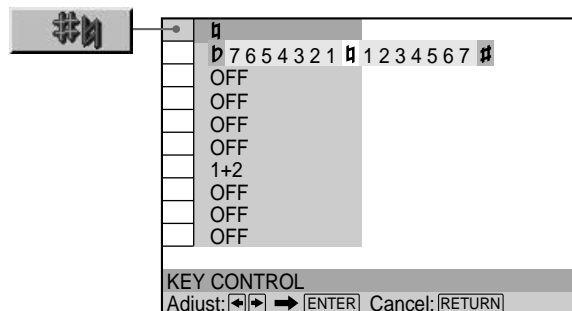
Press KEY CONTROL or KEY in karaoke mode.

To	Press
raise the key	
lower the key	
return to the original key	

You can adjust the key in 15 half-tone steps (7 steps higher, 7 steps lower and the original key).

 You can change the key using "KEY CONTROL" in the Karaoke Control Menu display

Select "KEY CONTROL" in the Karaoke Control Menu display (page 47), change the key using /, and then press ENTER.



Note

The key automatically returns to the original key when the title or track changes.

Inserting the Applause Effect (Effect Mode)

You can insert applause with or without cheers in the karaoke mode.



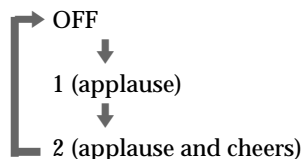
EFFECT MODE

EFFECT DO

To automatically insert the effect at the beginning and end of the titles and tracks

Press EFFECT MODE to select applause only or applause with cheers. (You may not be able to do this operation depending on the DVD or when doing PBC playback of a VIDEO CD.)


Each time you press EFFECT MODE, the effect changes as follows:





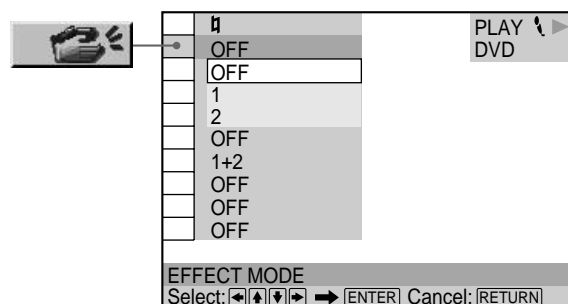
To instantly insert the effect whenever you want

Press EFFECT DO when you want to insert the applause effect you selected.

You may insert applause and cheers using this button even if EFFECT MODE is set to "OFF."

 You can set the effect mode using "EFFECT MODE" in the Karaoke Control Menu display

Select "EFFECT MODE" in the Karaoke Control Menu display (page 47), select the effect mode using ,, and then press ENTER.



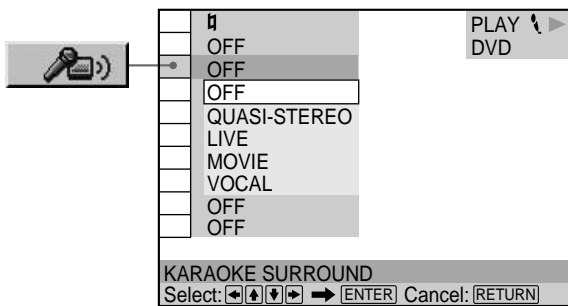
Applying the Surround Effect (Karaoke Surround)

DVD VIDEO CD

The karaoke surround function gives surround effects to the accompaniment sound.

Select "KARAOKE SURROUND" in the Karaoke Control Menu display. Select the karaoke surround mode using \uparrow/\downarrow , and then press ENTER. To cancel the karaoke surround, select "OFF" using \uparrow/\downarrow , and then press ENTER.

To use the Karaoke Control Menu display, see "Displaying the Karaoke Control Menu display" on page 47.



■ KARAOKE SURROUND

- OFF: turns off the karaoke surround function.
- QUASI-STEREO: gives a stereo like effect to the monaural accompaniment sound. This mode is effective with CDs/VIDEO CDs.
- LIVE: emphasizes treble frequencies of the accompaniment sound to give a live concert performance effect.
- MOVIE: gives a theater performance effect to the accompaniment sound.
- VOCAL: reduces the accompaniment sound level so that your voice is emphasized. This mode is effective with CDs/VIDEO CDs.

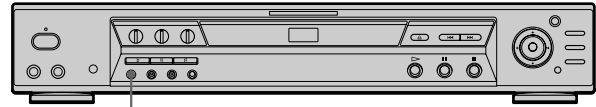
Note

Do not use the KARAOKE SURROUND function together with the TVS function (page 36). You will not be able to enjoy the surround sound effect presented by TVS.

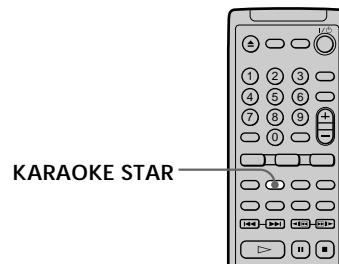
Adding Richness to Your Voice (Karaoke Star)

DVD VIDEO CD

The Karaoke Star function gives effects to your voice.

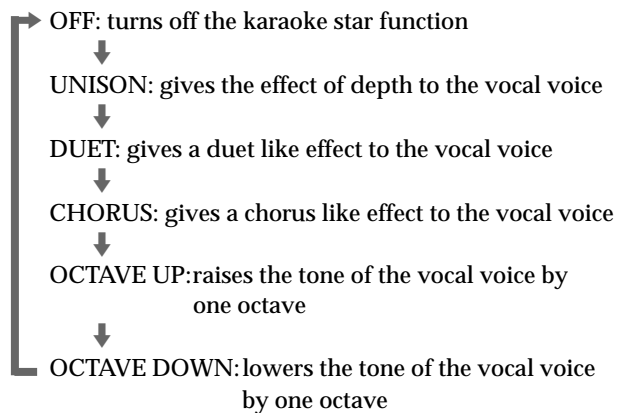


KARAOKE STAR button and indicator
The indicator lights up when you select a karaoke star mode other than "OFF."



Press KARAOKE STAR in karaoke mode.

Each time you press KARAOKE STAR, the effect changes as follows:

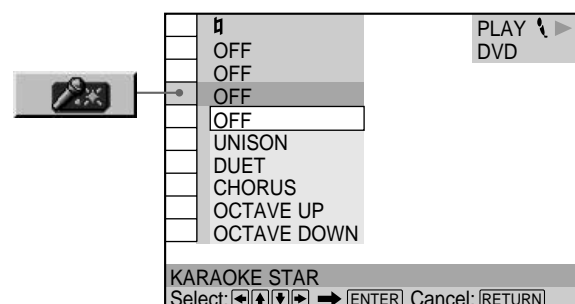


The KARAOKE STAR effect is enhanced when you increase the echo level.



You can select the Karaoke Star mode using "KARAOKE STAR" in the Karaoke Control Menu display

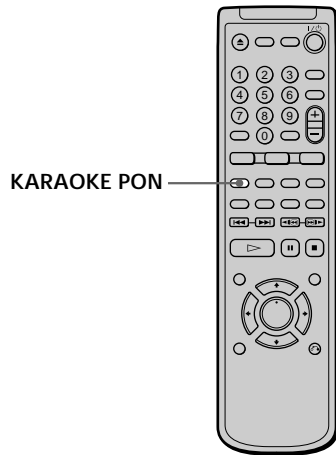
Select "KARAOKE STAR" in the Karaoke Control Menu display (page 47), select the item using \uparrow/\downarrow , and then press ENTER.



Playing Karaoke with Any Stereo Disc (Karaoke Pon)

DVD VIDEO CD CD




You can enjoy karaoke with a stereo-recorded disc, even if it is a non-karaoke disc, by reducing the sound of the vocals.

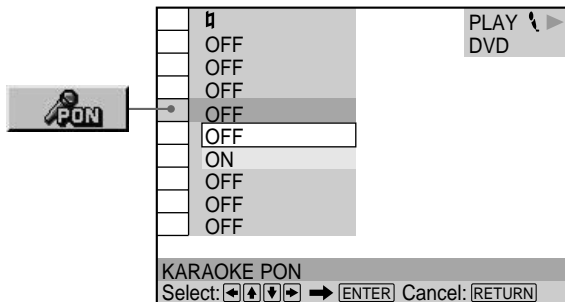


Press KARAOKE PON in karaoke mode.

To cancel the Karaoke Pon function

Press KARAOKE PON again.

 You can turn the Karaoke Pon function on and off using "KARAOKE PON" in the Karaoke Control Menu display. Select "KARAOKE PON" in the Karaoke Control Menu display (page 47), select "ON" or "OFF" using /, and then press ENTER.



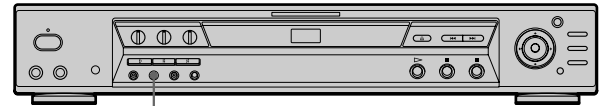
Notes

- The stereo effect will be reduced.
- This function may not work well in the following cases:
 - only a few instruments are playing
 - a duet is playing
 - the vocals on the disc deviate from the center
 - monaural-recorded discs (the accompaniment is also reduced)
 - multiplex discs

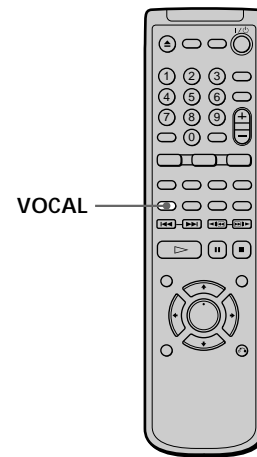
Turning the Vocals On and Off (Vocal) DVD VIDEO CD

When playing a DVD with the Dolby Digital Karaoke format in karaoke mode, you can turn on or off the guide vocal recorded in the karaoke track.

When playing a VIDEO CD/CD in karaoke mode, you can listen to the vocals.



VOCAL button and indicator
The indicator lights up when the Vocal function is turned on.



When playing a DVD

You can listen to the guide vocal recorded in the Dolby Digital karaoke format track.

Press VOCAL while playing a disc. To cancel the guide vocal, press VOCAL again.


Notes

- This function works only with the Dolby Digital Karaoke format.
- If the guide vocal is not recorded on the disc, you cannot use the Vocal function.

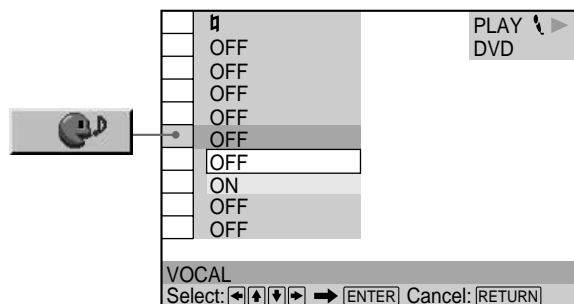
When playing a VIDEO CD or CD


When VIDEO CDs and CDs are played in karaoke mode, the audio output automatically changes so that only the left channel (accompaniment track) is played and output from both front speakers (L, R).

You can listen to the vocals by pressing VOCAL while the accompaniment is being played.

 You can turn the Vocal function on and off using “VOCAL” in the Karaoke Control Menu display

Select “VOCAL” in the Karaoke Control Menu display (page 47), select “ON” or “OFF” using \uparrow/\downarrow , and then press ENTER.



 You can select the vocals

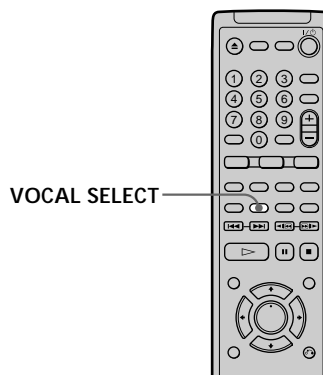
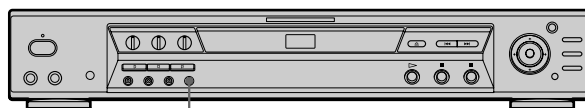
When the Vocal function is set to on, you can change the guide vocal by pressing VOCAL SELECT. See “Selecting the Vocals” (page 51).

Notes

- When you turn the Vocal function on, the Vocal Support function is automatically turned off (page 52).
- When you turn the Vocal function on and off while playing a Super VCD, the sound may cut off for a moment.

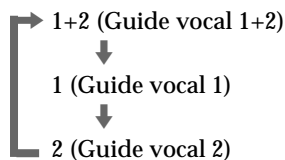
Selecting the Vocals (Vocal Select)

After you have set Vocal (page 50) or Vocal Support (page 52) to “ON,” you can change the guide vocal channel. You can select different kinds of vocals when using the Vocal or Vocal Support function.



When playing a DVD

During playback, press VOCAL SELECT. Each time you press VOCAL SELECT, the guide vocal channel changes as follows:



Notes

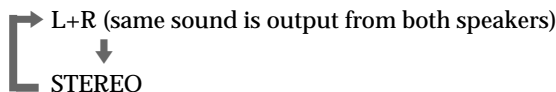
- This function works only with the Dolby Digital Karaoke format.
- Depending on the DVD, you may not be able to do the operations above.
- If only one guide vocal is recorded in the disc, you can select only “1.”

Selecting the Vocals (Vocal Select)

When playing a VIDEO CD or CD

To select the vocal track, press VOCAL SELECT during playback.

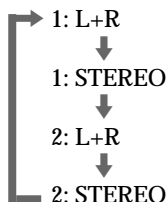
Each time you press VOCAL SELECT, the output channel changes as follows:



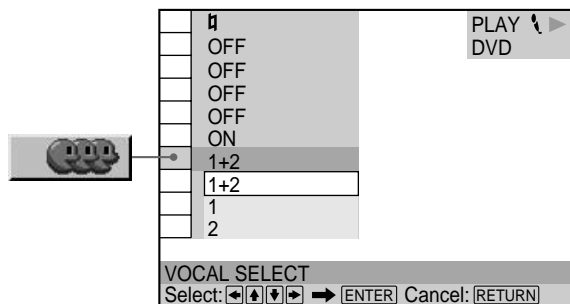
When playing a Super VCD

To select the vocal track, press VOCAL SELECT during playback.

Each time you press VOCAL SELECT, the output channel changes as follows:

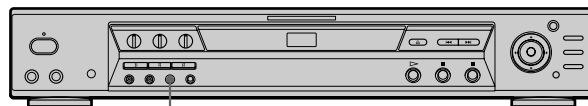


You can select the vocals using "VOCAL SELECT" in the Karaoke Control Menu display. Select "VOCAL SELECT" in the Karaoke Control Menu display (page 47), select the vocals using /, and then press ENTER.



Being Supported by the Recorded Vocal Track (Vocal Support)

The recorded vocal will play when you stop singing during a song.



VOCAL SUPPORT button and indicator

The indicator lights up when the Vocal Support function is turned on.



VOCAL SUPPORT

When playing a DVD

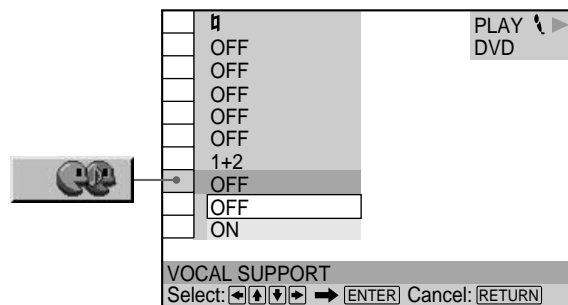
You can use the Vocal Support function only with the Dolby Digital Karaoke format.

Press VOCAL SUPPORT while playing a disc in karaoke mode. To cancel the Vocal Support function, press VOCAL SUPPORT again.

When playing a VIDEO CD or CD

Press VOCAL SUPPORT while playing a disc in karaoke mode. To cancel the Vocal Support function, press VOCAL SUPPORT again.

You can turn the Vocal Support function on and off using "VOCAL SUPPORT" in the Karaoke Control Menu display. Select "VOCAL SUPPORT" in the Karaoke Control Menu display (page 47), select "ON" or "OFF" using /, and then press ENTER.



You can select the vocals. When the Vocal Support function is set to "ON," you can change the guide vocal by pressing VOCAL SELECT. See "Selecting the Vocals" (page 51).

Notes

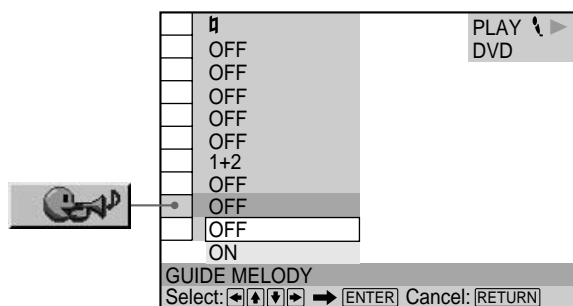
- When you turn the Vocal Support function on, the Vocal function is automatically turned off (page 50).
- When switching the recorded vocal and your vocal while playing a Super VCD, the sound may cut off for a moment.

Turning the Guide Melody On and Off (Guide Melody)

DVD

You can listen to the guide melody.

Select "GUIDE MELODY" in the Karaoke Control Menu display. To turn the guide melody on, select "ON" using \uparrow/\downarrow , and then press ENTER. To cancel the guide melody, select "OFF" using \uparrow/\downarrow , and then press ENTER. To use the Karaoke Control Menu display, see "Displaying the Karaoke Control Menu display" on page 47.



Notes

- This function works only with the Dolby Digital Karaoke format.
- If no guide melody is recorded on the disc, you cannot hear the guide melody even if you turn it on.

Pausing at the End of Each Track (Auto Pause)

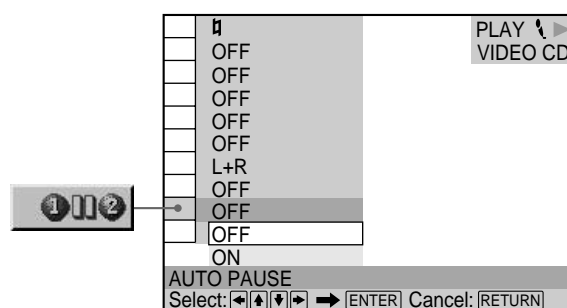
VIDEO CD

CD

You can set the player to pause every time a track is played.

Select "AUTO PAUSE" in the Karaoke Control Menu display. To turn the Auto Pause function on, select "ON" using \uparrow/\downarrow , and then press ENTER. To cancel the Auto Pause function, select "OFF" using \uparrow/\downarrow , and then press ENTER.

To use the Karaoke Control Menu display, see "Displaying the Karaoke Control Menu display" on page 47.



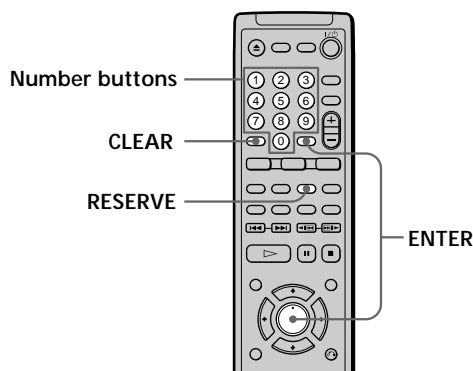
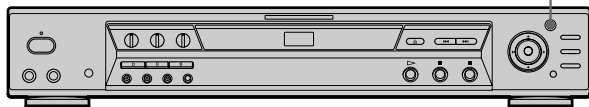
Note

The Auto Pause function does not work during PBC playback of a VIDEO CD.

Reserving Karaoke (Reserve) DVD VIDEO CD

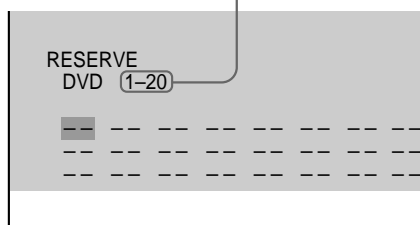
You can select and reserve up to 24 tracks/titles when the player is in karaoke mode. You can reserve additional tracks/titles even if somebody is performing karaoke. Once the track or title is performed, it disappears from the reserve list.

RESERVE button and indicator
The indicator lights up while playing the reserved titles or tracks.

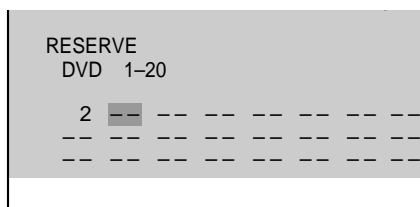


- 1 Press **RESERVE** in karaoke mode.
The **RESERVE** display appears and the **RESERVE** indicator flashes.

Total number of titles or tracks ("1-20" means the disc has 20 titles or tracks.)

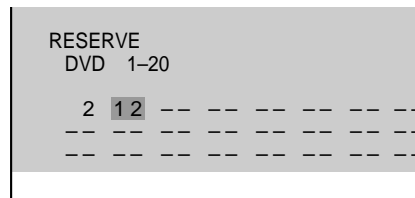


- 2 Input the title or track number using the number buttons, then press **ENTER**.



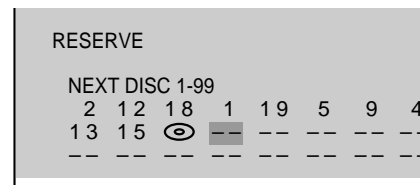
To cancel this title or track, press **CLEAR**.

- 3 To reserve other titles or tracks, repeat Step 2.
You can reserve other titles or tracks even while playing a disc.



To reserve titles or tracks from another disc:

- 1 Press **0**.
"⓪ (next disc)" appears.
- 2 Press **ENTER**.
- 3 Input the title or track number of another disc.
When the player reaches "⓪ (next disc)," it will stop so that you can change the disc.



To cancel the number, press **CLEAR**.

The reserved titles or tracks are played in the reserved order.

If you reserve titles or tracks when the player is in stop mode, press **▷** to start Reserve Play.

To exit the RESERVE display

Press **RESERVE**. The **RESERVE** display is turned off. However, the player memorizes the contents of the reserve list.

To cancel Reserve Play

Select "OFF" in "RESERVE" in the Karaoke Control Menu display or press **CLEAR**. All of the reserve settings are erased.

You can display the "RESERVE" list using the Karaoke Control Menu display

Select "SET➡" in "RESERVE" in the Karaoke Control Menu display (page 47).

You can select a reserved title or track

While playing the reserved title or track, you can jump to the next title or track by pressing the **▶▶** (NEXT) button and then return to the beginning of the current title or track with the **◀◀** (PREV) button.

Notes

- You cannot do Shuffle Play and Repeat Play while using this function. The Shuffle Play or Repeat Play setting is canceled when you start reserving tracks or titles.
- If the reserved title or track does not exist, "Reserve play of title** is prohibited." or "Reserve play of track** is prohibited." appears and the next title or track is played.
- The reserve function does not work during PBC playback of a VIDEO CD.

Settings and Adjustments

This chapter describes how to set and adjust the player using the on-screen setup menu. Most settings and adjustments are required to be set when you first use the player.

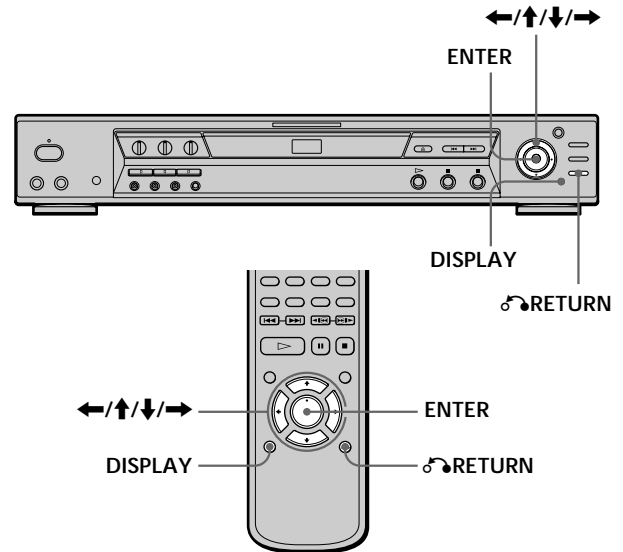
Using the Setup Display

DVD VIDEO CD

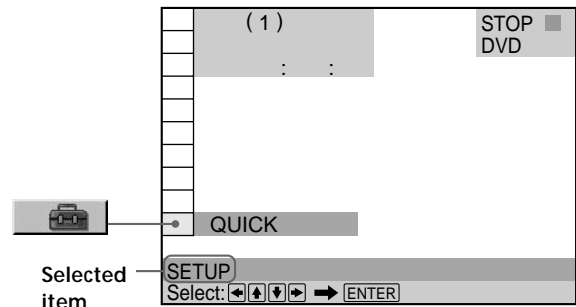
Using the setup display, you can do the initial setup, adjust the picture and sound and set the various outputs. You can also set a language for the subtitles and the setup display, limit playback by children, and so on. For details on each setup display item, see pages 59 to 66.

Note

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

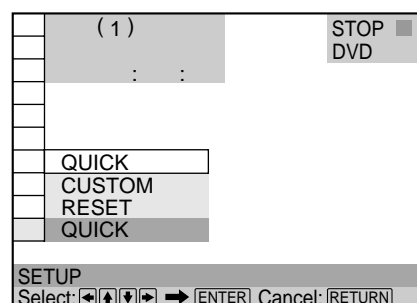


- 1 Press DISPLAY and select "SETUP" using \uparrow/\downarrow .



- 2 Press ENTER.

The options for SETUP appear.



- 3** Press **↑/↓** to select "CUSTOM," then press **ENTER**.
The setup display appears.

LANGUAGE SETUP	
OSD:	ENGLISH
DVD MENU:	ENGLISH
AUDIO:	ORIGINAL
SUBTITLE:	ENGLISH

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

Main item	LANGUAGE SETUP	
	OSD:	ENGLISH
	DVD MENU:	ENGLISH
	AUDIO:	ORIGINAL
	SUBTITLE:	ENGLISH

- 5** Press **ENTER**.
The selected main item is highlighted.

SCREEN SETUP	
TV TYPE:	16:9
SCREEN SAVER:	ON
BACKGROUND:	JACKET PICTURE

- 6** Select the item you want using **↑/↓**.

SCREEN SETUP	
TV TYPE:	16:9
SCREEN SAVER:	ON
BACKGROUND:	JACKET PICTURE

- 7** Press **ENTER**.

SCREEN SETUP	
TV TYPE:	16:9
SCREEN SAVER:	16:9
BACKGROUND:	4:3 LETTER BOX
	4:3 PAN SCAN

- 8** Select the setting you want using **↑/↓**.

SCREEN SETUP	
TV TYPE:	16:9
SCREEN SAVER:	16:9
BACKGROUND:	4:3 LETTER BOX
	4:3 PAN SCAN

- 9** Press **ENTER**.

SCREEN SETUP	
TV TYPE:	4:3 PAN SCAN
SCREEN SAVER:	ON
BACKGROUND:	JACKET PICTURE

- 10** Press **DISPLAY**.
The setup display disappears.

- 11** Press **DISPLAY** repeatedly to turn off the on-screen menu.

To return to the previous screen

Press **↶** RETURN.

To quit while making a selection

Press **DISPLAY**.

Note

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

💡 If you select "QUICK" in Step 3

You will enter the Quick Setup mode (page 14).

Follow from Step 5 of the Quick Setup explanation to make basic adjustments.

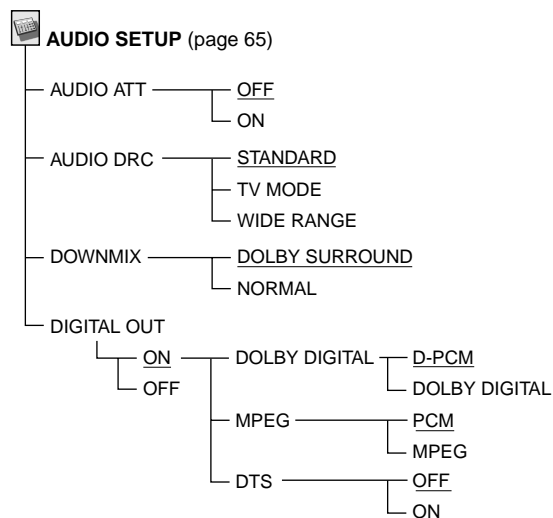
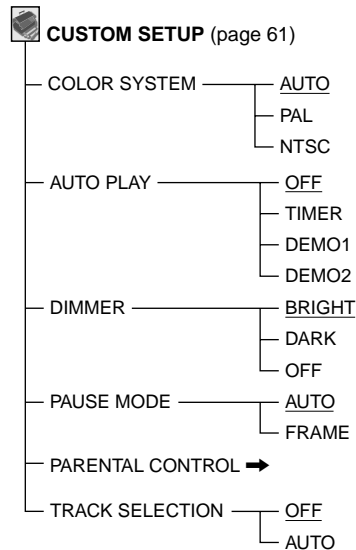
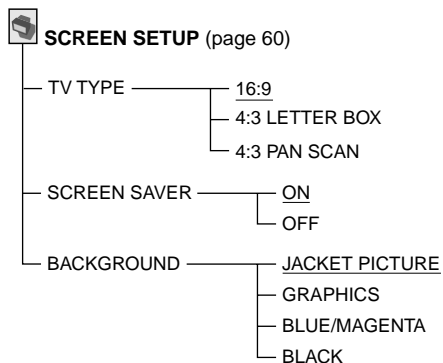
💡 If you select "RESET" in Step 3

You can reset all of the "SETUP" settings on page 58 (except for "PARENTAL CONTROL") to the default settings.

After you select "RESET" and press **ENTER**, select "YES" to reset the settings (it takes a few seconds to complete), or select "NO" and press **ENTER** to return to the Control Menu. Do not press **POWER** or **I/⏻** when resetting the player.

Setup Display Item List

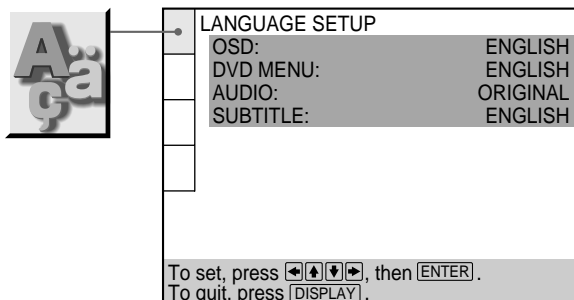
The default settings are underlined.



Setting the Display Language or Sound Track (LANGUAGE SETUP)

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

Select “LANGUAGE SETUP” in the setup display.



Notes

- When you select a language that is not recorded on the DVD, one of the recorded languages is automatically selected for the “DVD MENU,” “AUDIO” and “SUBTITLE” settings.
- Depending on the DVD, the player may not start playing with the selected language even when you select a language in “DVD MENU,” “AUDIO” or “SUBTITLE.”

■ OSD (On-Screen Display)

Selects the language for the on-screen display.

- ENGLISH
- CHINESE 1
- CHINESE 2

■ DVD MENU

Selects the language for the DVD menu.

- ENGLISH
- CHINESE
- JAPANESE
- FRENCH
- GERMAN
- ITALIAN
- SPANISH
- DUTCH
- DANISH
- SWEDISH
- FINNISH
- NORWEGIAN
- PORTUGUESE
- RUSSIAN
- OTHERS➡

When you select “OTHERS➡,” select and enter the language code from the list using the number buttons (page 74). After you have made a selection, the language code (4 digits) is displayed.

■ AUDIO

Selects the language for the sound track.

- ORIGINAL: the language given priority in the disc
- ENGLISH
- CHINESE
- JAPANESE
- FRENCH
- GERMAN
- ITALIAN
- SPANISH
- DUTCH
- DANISH
- SWEDISH
- FINNISH
- NORWEGIAN
- PORTUGUESE
- RUSSIAN
- OTHERS➡

When you select “OTHERS➡,” select and enter the language code from the list using the number buttons (page 74). After you have made a selection, the language code (4 digits) is displayed.

■ SUBTITLE

Selects the language for the subtitles.

- AUDIO FOLLOW*
- ENGLISH
- CHINESE
- JAPANESE
- FRENCH
- GERMAN
- ITALIAN
- SPANISH
- DUTCH
- DANISH
- SWEDISH
- FINNISH
- NORWEGIAN
- PORTUGUESE
- RUSSIAN
- OTHERS➡

When you select “OTHERS➡,” select and enter the language code from the list using the number buttons (page 74). After you have made a selection, the language code (4 digits) is displayed.

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

Settings for the Display (SCREEN SETUP)

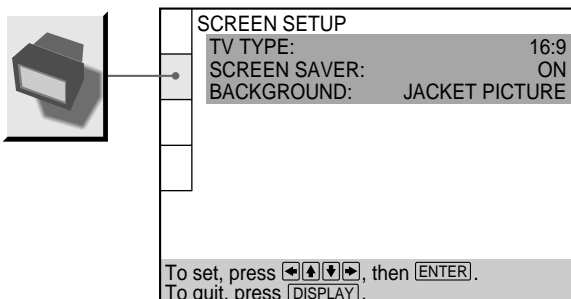
DVD

VIDEO
CD

CD

“SCREEN SETUP” allows you to set the display according to the playback conditions.
The default settings are underlined.

Select “SCREEN SETUP” in the setup display.

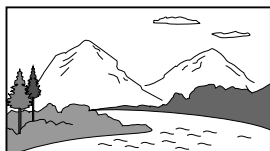


■ TV TYPE

Selects the aspect ratio of the TV to be connected.

- 16:9: select this when you connect a wide-screen TV or a TV with a wide mode function to the player.
- 4:3 LETTER BOX: select this when you connect a normal TV to the player. Displays a wide picture with bands on the upper and lower portions of the screen.
- 4:3 PAN SCAN: select this when you connect a normal TV to the player. Displays the wide picture on the whole screen automatically and cuts off the portions that do not fit.

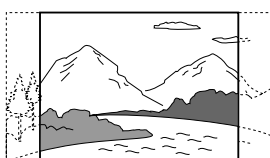
16:9



4:3 LETTER BOX



4:3 PAN SCAN



Note

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

■ SCREEN SAVER

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

- ON: turns on the screen saver.
- OFF: turns off the screen saver.

■ BACKGROUND

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

- JACKET PICTURE: The jacket picture appears in the background, but only when the jacket picture is already recorded on the disc.
- GRAPHICS: A preset picture stored in the player appears in the background.
- BLUE/MAGENTA: The background color is blue. When the player is in karaoke mode, the background color changes to magenta.
- BLACK: The background color is black.

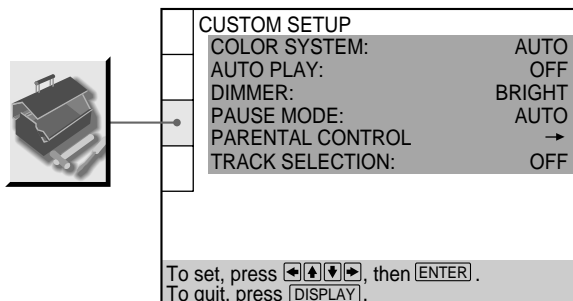
Note

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

Custom Settings (CUSTOM SETUP) DVD VIDEO CD CD

“CUSTOM SETUP” allows you to set the playback conditions.
The default settings are underlined.

Select “CUSTOM SETUP” in the setup display.



■ COLOR SYSTEM

Selects the color system when you play a VIDEO CD.

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

Notes

- You cannot change the color system for DVDs.
- You can change the color system of this unit according to the connected TV. See page 9.

■ AUTO PLAY

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

- OFF: does not use “TIMER,” “DEMO1” or “DEMO2” to start playback.
- TIMER: starts playing when the player is turned on, or at any time you want when connected to a timer (not supplied). Set the timer when the player is in standby mode (the power indicator lights up in red).
- DEMO1: starts playing the first demonstration automatically.
- DEMO2: starts playing the second demonstration automatically.

■ DIMMER

Adjusts the lighting of the front panel display.

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

■ PAUSE MODE (DVD only)

Selects the picture in pause mode.

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

■ PARENTAL CONTROL →

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

The same password is used for both Parental Control and Custom Parental Control (page 37) .

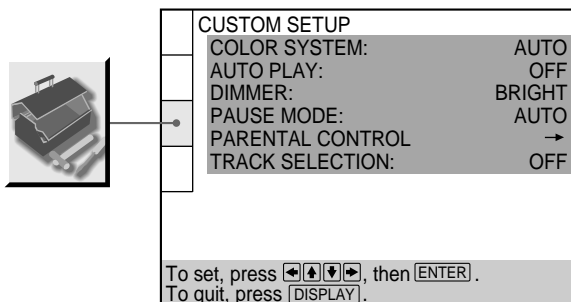
For details, see “Limiting playback by children (Parental Control).”

Custom Settings (CUSTOM SETUP)

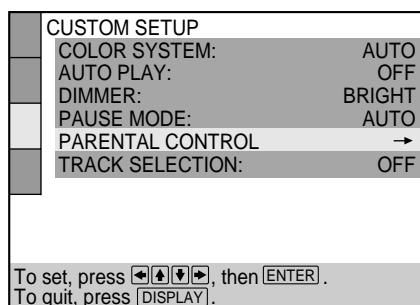
Limiting playback by children (Parental Control) **DVD**

Playback of some DVDs can be limited depending on the age of the users. The "Parental Control" function allows you to set a playback limitation level.

Select "CUSTOM SETUP" in the setup display.

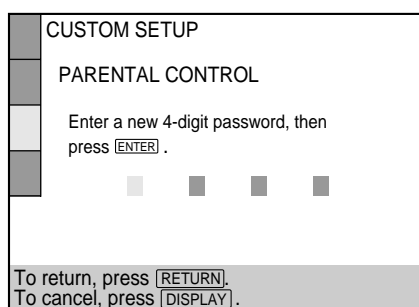


- 1 Select "PARENTAL CONTROL" using **↑/↓**, then press **ENTER**.



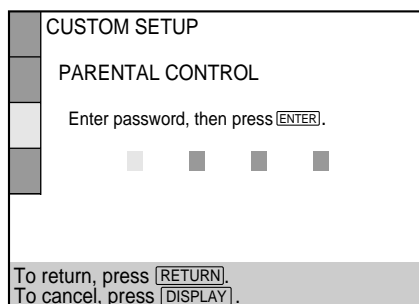
■ When you have not entered a password

The display for entering a password appears.



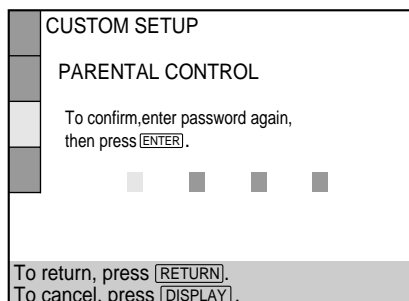
■ When you have already registered a password

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



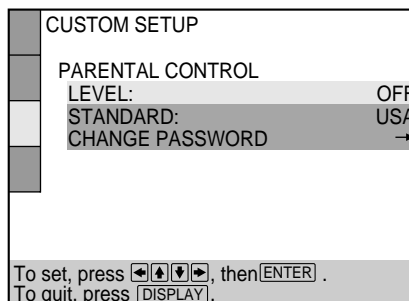
- 2 Enter a password in 4 digits using the number buttons, then press **ENTER**.

The digits change to asterisks (*), and the display for confirming the password appears.

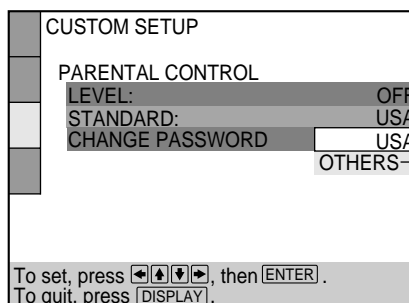


- 3 To confirm your password, enter it again using the number buttons, then press **ENTER**.

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



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



- 5** Select a geographic area as the playback limitation level standard using \uparrow/\downarrow , then press ENTER. When you select “OTHERS \Rightarrow ,” select and enter the standard code in the table on the next page using the number buttons.

CUSTOM SETUP	
PARENTAL CONTROL	
LEVEL:	OFF
STANDARD:	USA
CHANGE PASSWORD	\rightarrow
To set, press \leftarrow \uparrow \downarrow \rightarrow , then [ENTER].	
To quit, press [DISPLAY].	

- 6** Select “LEVEL” using \uparrow/\downarrow , then press ENTER.

CUSTOM SETUP	
PARENTAL CONTROL	
LEVEL:	OFF
STANDARD:	OFF
CHANGE PASSWORD	8: \downarrow
	7: NC17
	6: R
	5: \downarrow
To set, press \leftarrow \uparrow \downarrow \rightarrow , then [ENTER].	
To quit, press [DISPLAY].	

- 7** Select the level you want using \uparrow/\downarrow , then press ENTER.

CUSTOM SETUP	
PARENTAL CONTROL	
LEVEL:	4: PG13
STANDARD:	USA
CHANGE PASSWORD	\rightarrow
To set, press \leftarrow \uparrow \downarrow \rightarrow , then [ENTER].	
To quit, press [DISPLAY].	

The lower the value, the more strict the limitation.

To return to the normal screen

Press DISPLAY.

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

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

To change the password

- After Step 3, select “CHANGE PASSWORD \Rightarrow ” using \uparrow/\downarrow , then press \Rightarrow or ENTER. The display for changing the password appears.
- Follow Steps 2 and 3 to enter a new password.

Playing a disc which is blocked by the playback limitation level

- Insert the disc and press \triangleright . The PARENTAL CONTROL display appears.
- Enter your 4-digit password using the number buttons, then press ENTER. The player starts playback. When you stop playing the DVD, the level returns to the original level.

💡 If you forget your password

Remove the disc and repeat Step 1 of “Limiting playback by children.” When you are asked to enter your password, enter “199703” using the number buttons, then press ENTER. The display will ask you to enter a new 4-digit password. After you enter a new 4-digit password, replace the disc in the player and press \triangleright . When the PARENTAL CONTROL display appears, enter your new password.

Notes

- When you play DVDs which do not have the Parental Control function, playback cannot be limited on this player.
- If you do not set a password, you cannot change the settings for playback limitation.
- Depending on the DVD, you may be asked to change the parental control level while playing the disc. In this case, enter your password, then change the level. When you stop playing the DVD, the level returns to the original level.
- The same password is used for both Parental Control and Custom Parental Control (page 37).

Custom Settings (CUSTOM SETUP)

Standard	Code number
Argentina	2044
Australia	2047
Austria	2046
Belgium	2057
Brazil	2070
Canada	2079
Chile	2090
China	2092
Denmark	2115
Finland	2165
France	2174
Germany	2109
Hong Kong	2219
India	2248
Indonesia	2238
Italy	2254
Japan	2276
Korea	2304
Malaysia	2363
Mexico	2362
Netherlands	2376
New Zealand	2390
Norway	2379
Pakistan	2427
Philippines	2424
Portugal	2436
Russia	2489
Singapore	2501
Spain	2149
Sweden	2499
Switzerland	2086
Taiwan	2543
Thailand	2528
United Kingdom	2184

■ TRACK SELECTION

Gives the sound track which contains the highest number of channels priority when you play a DVD on which multiple audio formats (PCM, DTS, MPEG audio or Dolby Digital format) are recorded.

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

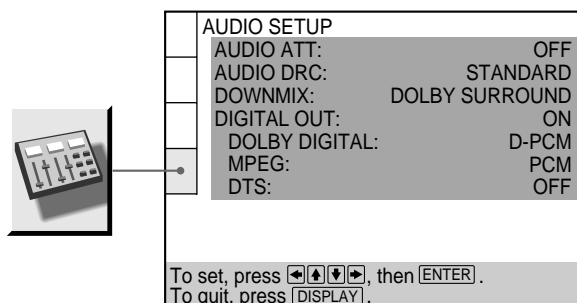
Notes

- When you set this item to "AUTO," the language may change depending on the "AUDIO" settings in "LANGUAGE SETUP." The "TRACK SELECTION" setting has higher priority than the "AUDIO" settings in "LANGUAGE SETUP" (page 59).
- If you set "DTS" in "AUDIO SETUP" to "OFF," the DTS sound track is not played even if you set this item to "AUTO" and the highest-numbered audio channel is recorded in DTS format.
- If PCM, DTS, MPEG audio and Dolby Digital sound tracks have the same number of channels, the player selects PCM, DTS, Dolby Digital and MPEG audio sound tracks in this order.
- Depending on the DVD, the audio channel with priority may be predetermined. In this case, you cannot give priority to the DTS, MPEG audio or Dolby Digital format by selecting "AUTO."

Settings for the Sound (AUDIO SETUP)

“AUDIO SETUP” allows you to set the sound according to the playback conditions.
The default settings are underlined.

Select “AUDIO SETUP” in the setup display.



■ AUDIO ATT (attenuation)

If the playback sound is distorted, set this item to “ON.”
The player reduces the audio output level.
Selects the setting of the output from the LINE OUT AUDIO connectors according to the audio equipment to be connected.

- OFF: turns off the audio attenuation. Normally select this position.
- ON: reduces the audio output level so that no sound distortion occurs. Select this when the playback sound from the speakers is distorted.

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 when the volume is turned down when playing a DVD. This function works only when you play a DVD which has the AUDIO DRC function. This affects the output from the DIGITAL OUT connectors only when “DOLBY DIGITAL” is set to “D-PCM” and “MPEG” is set to “PCM” in “DIGITAL OUT,” and it affects the output from the LINE OUT AUDIO connectors.

- STANDARD: Normally select this position.
- TV MODE: makes the low sounds clear even if you turn the volume down. It is especially recommended when you listen to the sound using the speakers of the TV.
- WIDE RANGE: It gives you the feeling of being at a live performance. 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.

■ DOWNMIX

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

The “DOWNMIX” setting affects the following connectors:

- LINE OUT AUDIO connectors
- DIGITAL OUT OPTICAL and COAXIAL connectors (when you set “DOLBY DIGITAL” to “D-PCM” in “AUDIO SETUP” in the setup display)
- DOLBY SURROUND: when the player is connected to an audio component that conforms to Dolby Surround (Pro Logic). The output signals which reproduce the Dolby Surround effect are downmixed to 2 channels.
- NORMAL: when the player is connected to an audio component that does not conform to Dolby Surround (Pro Logic). The signals without the Dolby Surround (Pro Logic) effect are output.

■ DIGITAL OUT

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

- ON: Normally select this position. When you select “ON,” set “DOLBY DIGITAL,” “MPEG” and “DTS.” For details on setting these items, see “Setting the digital output signal” (page 66).
- OFF: when the player does not output the sound signals via the DIGITAL OUT OPTICAL and COAXIAL connectors, the influence of the digital circuit upon the analog circuit is at a minimum.

Notes

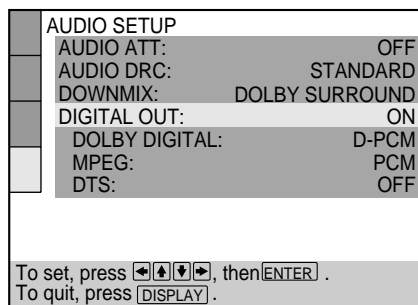
- When you play sound tracks with a 96 kHz sampling frequency, the output signals from the DIGITAL OUT OPTICAL and COAXIAL connectors are converted to 48 kHz (sampling frequency). When the signals are output from the LINE OUT AUDIO connectors, sampling frequency stays at 96 kHz and the output signals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

Settings for the Sound (AUDIO SETUP)

Setting the digital output signal

Switches the methods of outputting audio signals when you connect, 1. a digital component such as a receiver (amplifier) having a digital connector, 2. an audio component having a built-in decoder (Dolby Digital, MPEG or DTS), 3. a DAT or MD via the DIGITAL OUT OPTICAL or COAXIAL connector using an optical or coaxial digital connecting cord. For connection details, see page 12.

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



■ DOLBY DIGITAL

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

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

Note

When you select "D-PCM," set TV Virtual Surround (TVS) to "OFF." Otherwise, the player will not output signals from the DIGITAL OUT OPTICAL or COAXIAL connector.

■ MPEG

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

- **PCM**: when the player is connected to an audio component lacking a built-in MPEG audio decoder. If you play MPEG audio sound tracks, the player outputs stereo signals via the DIGITAL OUT OPTICAL and COAXIAL connectors.
- **MPEG**: when the player is connected to an audio component having a built-in MPEG audio decoder. If the player is connected to an audio component lacking a built-in MPEG audio decoder, do not set this. Otherwise, when you play the MPEG audio sound track, a loud noise or no sound will come out from the speakers, affecting your ears or causing the speakers to be damaged.

■ DTS

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

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

Note

If you select one of the TVS settings while playing a DVD, the player does not output the following signals from the DIGITAL OUT OPTICAL and COAXIAL connectors.

- Dolby Digital signals (when you set "DOLBY DIGITAL" in "AUDIO SETUP" to "D-PCM")
- MPEG audio signals

Additional Information

Troubleshooting

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

Power

The power is not turned on.

- ➔ Check that the mains lead is connected securely.

Picture

There is no picture.

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

Picture noise appears.

- ➔ Clean the disc.
- ➔ If the video signal from your 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 player directly to your TV's S video input, if your TV is equipped with this input. (page 8)
- ➔ If the color system of your player does not match with that of your TV, change the color system of the player. For details, see page 9. (You cannot change the color system of the DVD disc itself.)

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

- ➔ The aspect ratio is fixed on your DVD.

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 10)
- ➔ Make sure you turn on the TV and the receiver (amplifier).
- ➔ Make sure you select the appropriate input on the receiver (amplifier) so that you can listen to the sound from the player.
- ➔ The player is in pause mode or in Slow-motion Play mode. Press \triangleright to return to normal play mode.
- ➔ The player is in fast forward or fast reverse mode. Press \triangleright to return to normal play mode.
- ➔ Check the speaker connections (page 12). Refer to the operating manual of your receiver (amplifier).
- ➔ When you play 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 from the DIGITAL OUT connectors. (page 65)
- ➔ You selected a TVS mode other than "OFF" in the Control Menu display when you connected the component via the DIGITAL OUT OPTICAL or COAXIAL connector. Set "TVS" to "OFF" in the Control Menu display. (page 35)
- ➔ When you play DTS sound tracks, sound will only come out from the DIGITAL OUT OPTICAL or COAXIAL connector. (page 18)
- ➔ While playing the Super VCD on which the audio track 2 is not recorded, no sound will come out when you select "2:STEREO," "2:1/L" or "2:2/R" (page 31).

Sound is noisy.

- ➔ Clean the disc.
- ➔ When you play a CD with DTS sound tracks, noise will come from any connector other than the DIGITAL OUT OPTICAL or COAXIAL connector. (page 18)

Sound distortion occurs.

- ➔ In the setup display, set "AUDIO ATT" in "AUDIO SETUP" to "ON" (page 65).

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


- ➔ Set "AUDIO" to "STEREO" in the Control Menu display. (page 31)
- ➔ Make sure you connect the player correctly. (page 8, 10, 12)
- ➔ The sound becomes monaural in karaoke mode.

Vocal is not heard when you select the vocal in karaoke mode.

- ➔ Vocals are not recorded on the disc.

Operation


The remote does not function.

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

The disc does not play.

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

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

- ➔ Program Play, Shuffle Play, Repeat Play or A-B Repeat Play has been selected. Press CLEAR. (pages 39 through 44)
- ➔ Resume Play has been selected. Press  on the front panel or on the remote before you start playing. (page 20)
- ➔ A title menu or a DVD menu automatically appears on the TV screen when you play your DVD, or a setup display automatically appears on the TV screen when you play your VIDEO CD with PBC functions.

The player starts playing the DVD automatically.

- ➔ The DVD features the auto playback function.
- ➔ "AUTO PLAY" in "CUSTOM SETUP" is set to "TIMER." (page 61)

Playback stops automatically.

- ➔ The disc may contain an auto pause signal. While playing such a disc, the player stops playback at the signal.

You cannot perform some functions such as stop, Scan, Slow-motion Play, Repeat Play, Shuffle Play or Program Play.

- ➔ Depending on the disc, you may not be able to do some of the operations above.

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

- ➔ In the setup display, select the desired language for the on-screen display in "OSD" under "LANGUAGE SETUP." (page 59)

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

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

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

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

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

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

The angles cannot be changed when you play a DVD.

- ➔ Multi-angles are not recorded on the DVD.
- ➔ Change the angles when "ANGLE" appears on the front panel display. (page 23)
- ➔ Changing the angles is prohibited on the DVD.

The player does not operate properly.

- ➔ Static electricity, etc., may affect the player's operation.
Press POWER on the player to turn the player off and then on again.

Nothing is displayed on the front panel display.

- ➔ In the setup display, "DIMMER" in "CUSTOM SETUP" is set to "OFF."
Set "DIMMER" to "BRIGHT" or "DARK." (page 61)

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

- ➔ The self-diagnosis function was activated. See the table on page 70.

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

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

Self-diagnosis function

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



First three characters of the service number	Cause and/or corrective action
C13	<ul style="list-style-type: none">• The disc is dirty. ➡ Clean the disc with a cleaning cloth. (page 6)
C31	<ul style="list-style-type: none">• The disc is not inserted correctly. ➡ Open the disc tray and insert the disc correctly.
Exx (xx is number)	<ul style="list-style-type: none">• To prevent a malfunction, the player has performed the self-diagnosis function. ➡ When you contact your Sony dealer or local authorized Sony service facility, give the 5-character service number. (example: E 61 10)

Specifications

CD/DVD player

Laser Semiconductor laser
Signal format system NTSC/PAL (See page 9 to switch.)

Audio characteristics

Frequency response
DVD (PCM 96 kHz): 2 Hz to 44 kHz (± 1 dB)*
DVD (PCM 48 kHz): 2 Hz to 22 kHz (± 0.5 dB)
CD: 2 Hz to 20 kHz (± 0.5 dB)
Signal-to-noise ratio 115 dB (LINE OUT AUDIO connectors only)
Harmonic distortion 0.003 %
Dynamic range 103 dB (DVD)
99 dB (CD)
Wow and flutter Less than detected value (± 0.001 % W PEAK)

Outputs and inputs

	Jack type	Output level	Load impedance
LINE OUT AUDIO (1, 2)	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 (1, 2)	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) C: 0.286 Vp-p (NTSC)	75 ohms, sync negative 75 ohms terminated
COMPONENT VIDEO OUT (Y, CB, CR)	Phono jacks	Y: 1.0 Vp-p CB, CR: 0.7 Vp-p	75 ohms, sync negative 75 ohms
MIC 1, 2	Phone jacks		

General

Power requirements 220 to 240 V AC, 50/60 Hz
220 V AC, 50/60 Hz
110 V AC, 60 Hz
See page 2 for further informations.
Power consumption 14 W
13 W
See page 2 for further informations.
Dimensions (approx.) 430 × 74 × 264 mm (w/h/d)
incl. projecting parts
Mass (approx.) 2.8 kg
Operating temperature 5 °C to 35 °C
Operating humidity 25 % to 80 %

Supplied accessories

See page 7.

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

Design and specifications are subject to change without notice.

Glossary

Bit rate (page 36)

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

Chapter (page 5)

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

Dolby Digital (pages 10, 66)

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

Dolby Surround (Pro Logic) (page 65)

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

DTS (pages 5, 66)

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

DVD (page 4)

A disc that contains up to 8 hours of moving pictures even though its diameter is the same as a CD.

The data capacity of a single-layer and single-sided DVD is 4.7 GB (Giga Byte) which is 7 times that of a CD. The data capacity of a dual-layer and single-sided DVD is 8.5 GB, a single-layer and double-sided DVD is 9.4 GB, and a dual-layer and double-sided DVD is 17 GB.

The picture data uses the MPEG 2 format, one of the worldwide standards of digital compression technology. The picture data is compressed to about 1/40 of its

original size. The DVD also uses a variable rate coding technology that changes the data to be allocated according to the status of the picture.

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

MPEG audio (page 66)

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 34)

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

Multilingual function (pages 31, 33, 59)

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

Parental Control (page 61)

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

Playback Control (PBC) (page 22)

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

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

Title (page 5)

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

Track (page 5)

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

TV Virtual Surround (TVS) (page 35)

Technology from Sony developed to produce surround sound for home use using just a stereo TV. Designed to work with the sound characteristics of your TV, this technology brings the excitement of surround sound to your home using nothing more than your stereo TV's internal speakers. Furthermore, various TVS modes are available.

For example, TVS WIDE uses just two speakers to create a virtual sound environment that makes you feel like you are surrounded by multiple speakers.

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 33, 59.

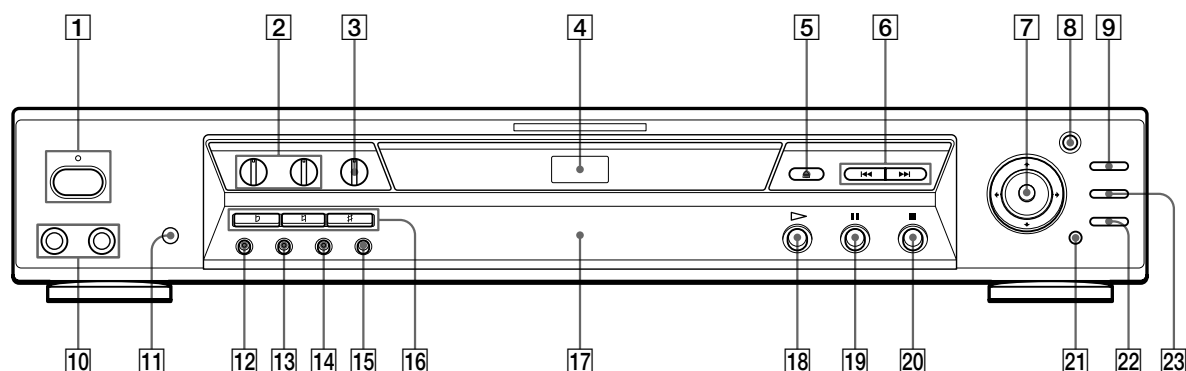
The language spellings conform to the ISO 639: 1988 (E/F) standard.

Code	Language	Code	Language	Code	Language	Code	Language
1027	Afar	1186	Scots Gaelic	1350	Malayalam	1513	Siswati
1028	Abkhazian	1194	Galician	1352	Mongolian	1514	Sesotho
1032	Afrikaans	1196	Guarani	1353	Moldavian	1515	Sundanese
1039	Amharic	1203	Gujarati	1356	Marathi	1516	Swedish
1044	Arabic	1209	Hausa	1357	Malay	1517	Swahili
1045	Assamese	1217	Hindi	1358	Maltese	1521	Tamil
1051	Aymara	1226	Croatian	1363	Burmese	1525	Telugu
1052	Azerbaijani	1229	Hungarian	1365	Nauru	1527	Tajik
1053	Bashkir	1233	Armenian	1369	Nepali	1528	Thai
1057	Byelorussian	1235	Interlingua	1376	Dutch	1529	Tigrinya
1059	Bulgarian	1239	Interlingue	1379	Norwegian	1531	Turkmen
1060	Bihari	1245	Inupiak	1393	Occitan	1532	Tagalog
1061	Bislama	1248	Indonesian	1403	(Afan) Oromo	1534	Setswana
1066	Bengali; Bangla	1253	Icelandic	1408	Oriya	1535	Tonga
1067	Tibetan	1254	Italian	1417	Punjabi	1538	Turkish
1070	Breton	1257	Hebrew	1428	Polish	1539	Tsonga
1079	Catalan	1261	Japanese	1435	Pashto; Pushto	1540	Tatar
1093	Corsican	1269	Yiddish	1436	Portuguese	1543	Twi
1097	Czech	1283	Javanese	1463	Quechua	1557	Ukrainian
1103	Welsh	1287	Georgian	1481	Rhaeto-Romance	1564	Urdu
1105	Danish	1297	Kazakh	1482	Kirundi	1572	Uzbek
1109	German	1298	Greenlandic	1483	Romanian	1581	Vietnamese
1130	Bhutani	1299	Cambodian	1489	Russian	1587	Volapük
1142	Greek	1300	Kannada	1491	Kinyarwanda	1613	Wolof
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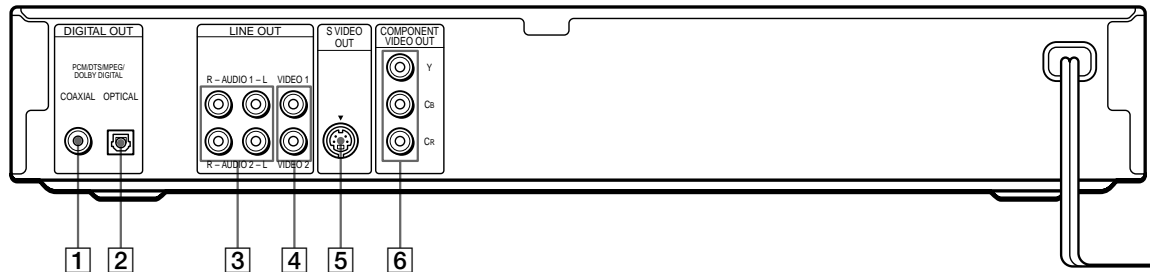
Refer to the pages indicated in parentheses for details.

Front Panel



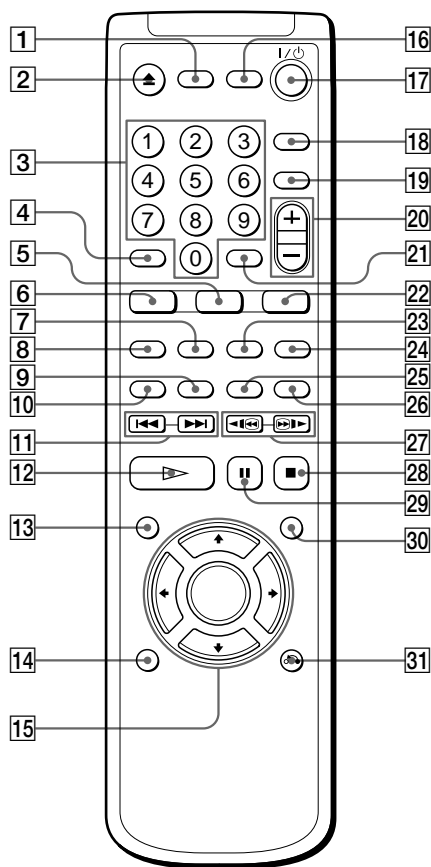
- 1 POWER button and indicator (17)**
Disconnects the power of the player or places the player in standby mode.
- 2 MIC 1 and 2 LEVEL controls (45)**
Adjusts the volume of the microphone connected to the MIC 1 and 2 connectors.
- 3 ECHO LEVEL control (45)**
Adjusts the echo of the microphones connected to the MIC 1 and 2 connectors.
- 4 Disc tray (17)**
Place a disc on the tray.
- 5 OPEN/CLOSE button (17)**
Opens or closes the disc tray.
- 6 ◀◀/▶▶PREV/NEXT (previous/next) buttons (18)**
Press to go to the next chapter or track, or to go back to the previous chapter or track.
- 7 ◀/▶/⏏/▶/▶/ENTER button**
Selects and executes the items or settings.
- 8 RESERVE button and indicator (54)**
Displays the "RESERVE" list on the TV screen in karaoke mode.
- 9 TITLE button (21)**
Displays the title menu on the TV screen.
- 10 MIC 1 and 2 connectors (45)**
Connect the microphones (not supplied) to these connectors. The player enters karaoke mode.
- 11 □ (remote sensor) (7)**
Accepts the remote control signals.
- 12 KARAOKE STAR button and indicator (49)**
Press to select the effect to your voice in karaoke mode.
- 13 VOCAL button and indicator (50)**
Turns the Vocal function on and off in karaoke mode.
- 14 VOCAL SUPPORT button and indicator (52)**
Turns the Vocal Support function on and off in karaoke mode.
- 15 VOCAL SELECT button (51)**
Selects different kinds of vocals recorded on the disc in karaoke mode.
- 16 KEY CONTROL buttons and indicators (48)**
Press to adjust the key to suit the vocal in karaoke mode.
- 17 Front Panel Display (23)**
Indicates the playing time, etc.
- 18 ▷ (play) button (17)**
Plays a disc.
- 19 || (pause) button (18)**
Pauses playing a disc.
- 20 ■ (stop) button (18, 20)**
Stops playing a disc.
- 21 DISPLAY button (25)**
Displays the Control Menu display on the TV screen to set or adjust the Control Menu items.
- 22 ↶ RETURN button (22, 26)**
Press to return to the previously selected screen, etc.
- 23 DVD MENU button (21)**
Displays the DVD menu on the TV screen.

Rear Panel



- 1 DIGITAL OUT COAXIAL connector (10, 12)**
Connect to an audio component using a coaxial digital connecting cord.
- 2 DIGITAL OUT OPTICAL connector (10, 12)**
Connect to an audio component using an optical digital connecting cord. Take off the cap.
- 3 LINE OUT AUDIO R (right)/L (left), 1/2 connectors (8, 10)**
Connect to the audio input connector on your TV or receiver (amplifier).
- 4 LINE OUT VIDEO 1/2 connectors (8)**
Connect to the video input connector on your TV or monitor.
- 5 S VIDEO OUT connector (8, 10, 12)**
Connect to the S video input connector on your TV or monitor.
- 6 COMPONENT VIDEO OUT connectors (9)**
Connect to a monitor or projector having component video input connectors (Y, CB, CR) that conform to output signals from the player.

Remote



- 1 TIME/TEXT button (23)**
Displays the playing time of the disc, etc., on the front panel display.
- 2 ▲OPEN/CLOSE button (18)**
Opens or closes the disc tray.
- 3 Number buttons**
Selects the items or settings.
- 4 CLEAR button (28, 40)**
Press to return to continuous play, etc.
- 5 ANGLE button (34)**
Changes the angles when playing a DVD.
- 6 AUDIO button (31)**
Changes the sound while playing a DVD or VIDEO CD.
- 7 KARAOKE STAR button (49)**
Press to select the effect to your voice in karaoke mode.
- 8 KARAOKE PON button (50)**
Reduces the singer's voice recorded on the disc in karaoke mode.
- 9 VOCAL SELECT button (51)**
Selects different kinds of vocals recorded on the disc in karaoke mode.

- 10 VOCAL button (50)**
Turns the Vocal function on and off in karaoke mode.
- 11 ◀◀/▶▶IPREV/NEXT (previous/next) buttons (18)**
Press to go to the next chapter or track, or to go back to the previous chapter or track.
- 12 ▷PLAY/SELECT button (17)**
Plays a disc.
- 13 TITLE button (21)**
Displays the title menu on the TV screen.
- 14 DISPLAY button (25)**
Displays the Control Menu display on the TV screen to set or adjust the items.
- 15 ◀/▶/◀/▶/ENTER buttons**
Selects and executes the items or settings.
- 16 KARAOKE MODE button (45)**
Press to set the player to karaoke mode.
- 17 I/⏻ (on/standby) button (17)**
Press to turn on the player or place it in standby mode after power is connected by pressing POWER on the player.
- 18 EFFECT MODE button (48)**
Press to insert applause with or without cheers while playing karaoke.
- 19 EFFECT DO button (48)**
Press to insert applause whenever you want in karaoke mode.
- 20 KEY buttons (48)**
Press to adjust the key to suit the vocal in karaoke mode.
- 21 ENTER button**
Executes the items or settings.
- 22 SUBTITLE button (33)**
Changes the subtitles when playing a DVD.
- 23 PROGRAM/RESERVE button (40, 54)**
Displays the "PROGRAM" display on the TV screen. In karaoke mode, displays the "RESERVE" list.
- 24 SEARCH MODE button (28, 30)**
Press to select the search mode (title, chapter, track, etc.).
- 25 VOCAL SUPPORT button (52)**
Turns the Vocal Support function on and off in karaoke mode.
- 26 INSTANT REPLAY button (18)**
Press to replay a previous scene when playing a DVD.
- 27 ◀◀/▶▶ SCAN/SLOW buttons (19)**
Locate a point quickly while monitoring the picture or play a disc in slow motion.
- 28 ■STOP button (18, 20)**
Stops playing a disc.
- 29 ■PAUSE button (18)**
Pauses playing a disc.
- 30 DVD MENU button (21)**
Displays the DVD menu on the TV screen.
- 31 ↶RETURN button (22, 26)**
Press to return to the previously selected screen, etc.

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