SONY.

CD/DVD Player

Operating Instructions



DVP-CX850D

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.

CAUTION

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

Refer servicing to qualified personnel only.

CAUTION-Laser radiation when open. DO NOT STARE INTO BEAM.

This label is located on the left side enclosure (Laser protective housing).





This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may

be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature

accompanying the appliance.

CAUTION

TO PREVENT ELECTRIC SHOCK MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT. For customers in the U.S.A.

Owner's Record

The model and serial numbers are located at the rear of the unit. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. DVP-CX850D Serial No.____

CAUTION

You are cautioned that any change or modifications not expressly approved in this manual could void your authority to operate this equipment.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful * interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Welcome!

Thank you for purchasing the 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:

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

This Player Can Play the Following Discs

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

"DVD VIDEO" logo is a trademark.

This player conforms to the NTSC color system. You cannot play discs recorded in other color systems such as PAL or SECAM.

Region code of DVDs you can play on this unit

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

DVDs labeled 👹 will be also played on this unit.

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

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

Note on playback operations of DVDs and VIDEO CDs

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



Terms for discs

• Title

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

• Chapter

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

Track

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



Index (CD) / Video Index (VIDEO CD)

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

• Scene

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

Note on PBC (Playback Control) (VIDEO CDs)

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

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

Discs that the player cannot play

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

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

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

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

Precautions

On safety

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

On power sources

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

On placement

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

On operation

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

On adjusting volume

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

On cleaning

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

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

IMPORTANT NOTICE

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

Notes on Discs

On handling discs

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



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

On cleaning

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



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

Getting Started

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

Unpacking

Check that you have the following items:

- Audio/video/S-link connecting cord (1)
- S video cord (1)
- Remote commander (remote) RMT-D113A (1)
- Size AA (R6) batteries (2)

Inserting batteries into the remote

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



You can control TVs and AV receivers using the supplied remote See page 67.

Notes

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

Transporting the player

Before transporting the player, follow the procedure below to return the internal mechanisms to their original positions.

- 1 Remove all the discs from the disc slots.
- **2** Close the front panel. Make sure that "NO DISC" appears in the front panel display.
- 3 Wait for 10 seconds, then press I/\odot to turn off the player.

TV Hookups

Getting Started

This connection is for listening to the sound through TV speakers (2ch - L, R). Refer to the instructions supplied with the component to be connected.

Required cords

Audio/video/S-link connecting cord (supplied) (1) S video cord (supplied) (1)

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

If your TV has an S-link connector, you can control the CD/DVD player from the TV. Connect the TV via the S-LINK connector. If your TV has an S video input connector, connect the component via the S VIDEO OUT connector using the S video cord. You will get a better picture.

Refer to the instructions supplied with the TV to be connected.



If you connect the player to a monitor or projector having component video input connectors that conform to output signals from the COMPONENT VIDEO OUTPUT (Y, PB/B-Y, PR/R-Y) connectors on the player

Connect the component via the COMPONENT VIDEO OUTPUT 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 view the pictures on your TV after making the connections shown below, a picture noise may appear.



 Depending on the TV or receiver (amplifier), sound distortion may occur because the audio output level is high. In this case, set "AUDIO ATT" in "AUDIO SETUP" to "ON" in the setup display. For details, see page 63.

Setups for the player

Some setups are necessary for the player depending on the TV or other components to be connected. Use the setup display to change the various settings. For details on using the setup display, see page 55.

- To connect the player to a normal TV In the setup display, set "TV TYPE" in "SCREEN SETUP" to "4:3 LETTER BOX" (default setting) or "4:3 PAN SCAN." For details, see page 59.
- To connect the player to a TV having the WIDE MODE function

In the setup display, set "TV TYPE" in "SCREEN SETUP" to "16:9/4:3 WIDE MODE." For details, see page 59.

• To connect the player to a wide-screen TV In the setup display, set "TV TYPE" in "SCREEN SETUP" to "16:9/4:3 WIDE MODE." For details, see page 59.

Receiver (Amplifier) Hookups

This connection is for listening to the sound through speakers connected to a receiver (amplifier such as an integrated stereo amplifier, a receiver having a built-in Dolby Pro Logic decoder, etc.). Refer to the instructions supplied with the component to be connected. You can enjoy 5.1 channel surround sound by connecting a receiver (amplifier) with 5.1 channel inputs. See page 48.

You can enjoy surround when connecting front speakers only You can use 3D sound imaging to create virtual rear speakers from the sound of the front speakers (L, R) without using actual rear speakers (VES: Virtual Enhanced Surround). For details, see page 48.

CD/DVD player

Required cords

Audio connecting cord (not supplied) (1) S video cord (supplied) (1)

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





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

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

When you play a DVD, set "DIGITAL OUT" in "AUDIO SETUP" to "ON" and then set "DOLBY DIGITAL" to "D-PCM" and "DTS" to "OFF" in the setup display (page 64).

When using an optical digital connecting cord



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



When using a coaxial digital connecting cord

Coaxial digital connecting cord



(not supplied)

Receiver (Amplifier) with a digital connector, MD deck,



OPTICAL COAXIAL PCM/DTS/ DOLBY DIGITAL(AC-3) DAT deck, etc.

 $(\mathbf{ })$

Notes

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

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

If you have an audio component with a built-in DTS decoder or Dolby Digital decoder

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

- When you play a DVD that is recorded in DTS format Set "DIGITAL OUT" in "AUDIO SETUP" to "ON" and then set "DTS" to "ON" in the setup display (page 64).
- When you play a DVD that is recorded in Dolby Digital format

Set "DIGITAL OUT" in "AUDIO SETUP" to "ON" and then set "DOLBY DIGITAL" to "DOLBY DIGITAL" in the setup display (page 64).



Notes

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

Setups for the player

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

Use the setup display to change the various settings. For details on using the setup display, see page 55.

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

When you play a DVD, set "DIGITAL OUT" in "AUDIO SETUP" to "ON" and then set "DOLBY DIGITAL" to "D-PCM" and "DTS" to "OFF" in the setup display (page 64). These are the default settings.

5.1 Channel Surround Hookups

Some DVDs have a sound track with up to 5.1 channels recorded in Dolby* Digital format. Using a receiver (amplifier) having 5.1 channel inputs and the 5 (+1) speakers, you can enjoy more real audio presence in the comfort of your own home.

"5 channel" stands for the 2 front speakers (Left and Right), 2 rear speakers (Left and Right) and 1 center speaker. The "0.1 channel" (+1) stands for the subwoofer which outputs the bass.

Even if you have fewer than 5 (+1) speakers, the player distributes the output signal to the speakers appropriately. This player has VIRTUAL 3D SURROUND mode. You can use the 3D sound imaging to shift the sound of the rear speakers away from the actual speaker position (VIRTUAL REAR SHIFT) or to create 3 sets of virtual rear speakers from 1 set of actual rear speakers (VIRTUAL MULTI REAR). For details on the VIRTUAL 3D SURROUND mode, see page 48.

Speaker placement

For the best possible surround sound, we recommend the following conditions.

- Use higher performance speakers.
- Use rear and center speakers that match your front speakers in size and performance.
- All speakers should be the same distance from the listening position.
- Place the subwoofer between the front (L, R) speakers if possible.

Note

Do not place the center or rear speakers farther away from the listening position than the front speakers.

Required cords

Audio cords (not supplied)

Two for the 5.1CH OUTPUT FRONT and REAR jacks



Monaural audio cords (not supplied) Two for the 5.1CH OUTPUT CENTER and WOOFER jacks

Black a Black

S video cord (supplied) One for the S VIDEO OUT jacks

Notes

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

Red jacks and plugs: Right audio channel White jacks and plugs: Left audio channel You can use either red or white cables to connect the center speaker and subwoofer.

• When you connect the component via the DIGITAL OUT OPTICAL or COAXIAL connector using an optical or coaxial digital connecting cord (not supplied), see page 11.

Setups for the player

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

Use the setup display or the Control Menu display to change the various settings.

For details on using the setup display, see page 55. For details on enjoying Digital Cinema Sound, see page 48.

 To enjoy Dolby Digital surround sound by connecting the player to a receiver (amplifier) with 5.1 channel inputs

Set each speaker position or distance, etc. See page 65.

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



Selecting the Language for On-Screen Display

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





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

	LANGUAGE SETUP OSD: DVD MENU: AUDIO: SUBTITLE:	ENGLISH ENGLISH FRENCH SPANISH
To s To s	set, press IFF (), then ENTER, quit, press SETUP.	

3 Select "FRENCH" using ↑/↓, then press ENTER.



To cancel using the setup display Press SET UP.

Note

For the languages you can select, see page 58.

Inserting Discs

You can insert up to 200 discs into this player.



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



- **3** Press the dial function select button to turn the DISC CHANGE indicator on.
- 4 Turn the I◀◀/>>>I dial until you find the disc slot where you insert a disc, while checking the disc slot number indicated in the front panel display or by the slot.



Disc slot at the loading position

- 5 Insert a disc with the playback side facing left. Notes
 - Make sure you have inserted the disc into each slot at a right angle to the rotary table. If the disc is not put in straight, it may damage the player or the disc.
 - Make sure the rotary table comes to a complete stop before inserting or removing discs.



With the playback side facing left

- 6 Repeat Steps 4 and 5 to insert more discs.
- 7 Close the front cover by pressing right edge of the cover until it clicks.



The rotary table turns and the disc slot at the loading position is set to the playing position.

Always close the front cover except when you insert or remove discs.

 $\ddot{oldsymbol{arget}}$ You can select a disc slot number by skipping by 10 slots

When you select the disc slot number in Step 4, press DISC SKIP +/- on the remote. Ten disc slots each before and after from the current disc slot number will be skipped.

You can select slot 1 directly

Press EASY PLAY in Step 4. The rotary table turns and slot 1 comes to the loading position.

Inserting Discs

Notes

• When you insert an 8 cm (3-inch) CD, be sure to attach a Sony CSA-8 adaptor (not supplied) to the disc.

Do not insert an empty 8 cm (3-inch) CD adaptor (CSA-8). It may damage the player.

- Do not attach anything such as seals or sleeves to discs. It may damage the player or the disc.
- If you drop a disc into the player and the disc does not go into the slot correctly, consult your nearest Sony dealer.
- When transporting the player, remove all discs from the player.

Removing discs

After following Steps 1 to 4 of "Inserting Discs" on page 15, remove the discs. Then close the front cover.

Playing Discs

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

Playing Discs OVD

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



1 Make settings on your TV.

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

When using a receiver (amplifier)

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

- Press I/① (POWER) to turn on the player. The indicator (red) above the I/① (POWER) button changes to green and the front panel display lights up.
- **3** Press the dial function select button to turn on the DISC CHANGE indicator.
- 4 Turn the I◀◀/►►I dial until you find the disc slot where you insert a disc, while checking the disc slot number indicated in the front panel display or by the slot, then press the I◀◀/►►I dial.

5 Press ⊳.

The player starts playing back. Adjust the volume on the TV or the receiver (amplifier).

Playing Discs

After following Step 5

When playing a DVD

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

When playing a VIDEO CD

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

ϔ You can turn on the player using the remote

Press I/ \bigcirc (POWER) when the indicator above the I/ \bigcirc (POWER) button on the front panel is lit in red.

😧 You can skip empty disc slots

When you select the disc slot number in Step 4, press DISC SKIP +/- on the remote. You can skip empty disc slots and locate next disc.

🍟 You can select the disc mode

You can choose whether all discs are played (ALL DISCS mode) or only 1 disc is played (1 DISC mode).

Press 1/ALL DISCS. Each time you press the button, 1 IDSC or ALL DISCS mode is selected (see page 41).

Notes

- If you leave the player or the remote in pause or stop mode for 15 minutes, the screen saver image appears automatically. To make the screen saver image go away, press ▷. (If you want to set the screen saver function to off, see page 59.)
- The indicator above the $1/\bigcirc$ (POWER) button lights up in red when the power is turned off.
- If you cannot select the disc in Step 4, the disc is not included in the current folder. Press FOLDER ALL (the Disc Explorer appears), then select the disc. See "Displaying the information of the loaded discs" (page 26).
- You cannot select the empty disc slots in Step 4.

To open the control panel

Pull PANEL OPEN lightly.







То	Operation
Play from the disc in slot 1	Press EASY PLAY,
Stop	Press .
Pause	Press II.
Resume play after pause	Press II or >.
Go to the next chapter, track or scene in continuous play mode	On the player: Press the dial function select button to turn on the DIRECT SEARCH indicator and turn the IMM / IMM dial clockwise. On the remote: Press IMM.
Go back to the preceding chapter, track or scene in continuous play mode	On the player: Press the dial function select button to turn on the DIRECT SEARCH indicator and turn the IMM / IMM dial counterclockwise.
	On the remote: Press 🔫 .
Stop play and remove the disc	Press ≙.

You can play discs in various modes such as Program Play using the on-screen menu (Control Menu). For operations of Control Menu, see page 32.

Playing at Various Speeds/Frame by Frame OVD () CD

Using the click shuttle and the JOG button/indicator, you can play back a DVD/CD/VIDEO CD at various speeds or frame by frame. Each time you press JOG, it changes between shuttle mode and jog mode.





To change the playback speed (Shuttle mode)

Turn the click shuttle. The playback speed changes depending on the turning direction and angle as follows:

When you play back a DVD



If you turn the click shuttle quickly, the playback speed goes to $FF2 \rightarrow /FR2 \iff$ at once.



** VIDEO CD Only

If you turn the click shuttle quickly, the playback speed goes to FF2►>/FR2◄< at once.

To return to continuous play

Press \triangleright .

Note

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

To play the disc frame by frame changing the playback speed (Jog mode)

1 Press JOG.

JOG lights up during jog mode. When you press JOG on the player, it pauses.

2 Turn the click shuttle.

Depending on the turning speed, the playback goes to frame-by-frame in the direction that the click shuttle is turned. If you turn the click shuttle with constant speed for a while, the playback speed goes to slow or normal.

To return to continuous play

Press ⊳.

Notes

- The JOG indicator shows the mode of the corresponding click shuttle. For example, when the JOG indicator on the remote is not lit, the remote click shuttle will remain in the shuttle mode even if the indicator on the player is lit.
- If you don't operate the click shuttle for about 20 seconds after pressing JOG, it returns to shuttle mode on the remote. On the player, it stays in jog mode.

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

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

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



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

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

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

2 Press ⊳.

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

$\dot{f Y}$ To play from the beginning of the disc

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

Using the Menu for Each DVD 🐠

Notes

- Resume Play may not be available depending on the DVD.
- Resume Play is not available in Shuffle or Program Play mode.
 Depending on where you stopped the disc, the player may resume playback from a different point.
- The point where you stopped playing is cleared when:
- you open or close the front cover
- you disconnect the AC power cord
- you change the play mode
- you start playback after selecting a title, chapter or track
- you change the settings of "TV TYPE" in "SCREEN SETUP" in the setup display
- you change the settings of "PARENTAL CONTROL" in "CUSTOM SETUP" in the setup display

Using the title menu

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





1 Press TITLE.

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

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

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

3 Press ENTER.

The player starts playing the selected title.

Notes

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

Using the DVD menu

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

1 Press DVD MENU.

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

2 Press $\leftarrow/\uparrow/\downarrow/\rightarrow$ 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 "LANGUAGE SETUP" in the setup display. For details, see page 58.

Note

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

Playing VIDEO CDs with PBC Functions (PBC Playback) 🍩

When playing VIDEO CDs with PBC functions (Ver. 2.0 discs), you can enjoy simple interactive operations, operations with search functions, etc. PBC Playback allows you to play VIDEO CDs interactively, following the menu screen on the TV screen. On this player, you can use the number buttons, ENTER, When you use the 🗺 / 🛏 dial on the player, press the dial function select button to turn on the DIRECT SEARCH indicator.







- **1** Start playing a VIDEO CD with PBC functions, following Steps 1 to 5 in "Playing Discs" on page 17.
- 2 Select the item number you want. On the player Press \uparrow/\downarrow to select the item number. On the remote Press the number button of the item you want.

3 Press ENTER.

4 Follow the instructions on the menu screen for interactive operations.

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

Going back to the menu screen

Press & RETURN, M, or M.

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

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

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

Note

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

Using the Front Panel Display

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



When playing back a DVD DVD

Display information while playing a 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 chapter



Notes

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

When playing back a CD/VIDEO CD

Display information while playing a disc



Q When playing VIDEO CDs with PBC functions

The current scene number is displayed instead of the current track number and the current index number. In this case, the front panel display does not change when you press TIME/ TEXT. If a TEXT or Disc Memo is recorded on the disc, the front panel display changes to "Text or Disc Memo" display when you press TIME/TEXT (see page 28).

Playing Discs

Checking the remaining time

Press TIME/TEXT.

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

Playing time and number of the current track



Note

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

Displaying the Disc Information (Disc Explorer)

You can check the contents of each disc loaded.

Loading the disc information





On the player:

Press LOAD when the player is in stop mode.

On the remote:

1 Set the TV/DISC EXPLORER/DVD switch to DISC EXPLORER.

2 Press LOAD in stop mode.

The player reads the disc information of all the discs and loads it into memory so that the disc type, titles and other text information can be displayed.

To cancel loading

Press 🔳.

Y The player can load the disc information even when the power is turned off.

Press LOAD before turning on the player. The player reads and loads all the disc information. When loading has been done, the power is turned off.

Note

It will take about 30 seconds to read one disc.

Displaying the information of the loaded discs

You can look at the loaded disc information on the Disc Explorer, and also select the disc to be played on the Disc Explorer.

The player has 7 folders (ALL, DVD, CD, A to D) and can display the Disc Explorer of each folder.

All the discs in the player are filed in the "ALL" folder. At the same time, DVDs are automatically filed in the "DVD" folder, and CDs and VIDEO CDs are in the "CD" folder. You can file your discs as you like in the A to D folders. See "Filing Discs in the Folder" (page 27).



Press the folder button (FOLDER ALL/DVD/CD/A/B/C/ D) of the desired folder in stop mode.

The Disc Explorer of the selected folder appears.



Jacket picture

The jacket picture recorded on the disc appears automatically. If the jacket picture is not recorded, the genre picture recorded in the memory of the player is displayed when you select the genre.

Text information (DVD TEXT, CD TEXT or Disc Memo)

The text information (DVD TEXT or CD TEXT) recorded on the disc appears automatically. If no text information is recorded, you can store the text information (Disc Memo) yourself (page 28).

Genre

You can select the genre of the disc yourself (page 30).

Disc type

The disc type appears automatically. "?" appears when the player has not loaded the disc information in the memory.

To select the disc on the Disc Explorer

1 Select the folder using the FOLDER buttons. The Disc Explorer of the selected folder appears.

- 2 Select the disc by one of the following operations.
 pressing ↑/↓
 - pressing the number buttons and ENTER
 - pressing the dial function select button to turn on the DISC CHANGE indicator, followed by turning the IMM / Immi dial on the player
 - pressing DISC SKIP +/- on the remote

3 Press ENTER.

The Disc Explorer disappears and playback starts.

To cancel using the Disc Explorer Press SRETURN.

Notes

- If you press a FOLDER button during playback, the playback stops and the Disc Explorer appears. In this case, the Resume Play is not available.
- Even if you have removed the disc from the player, the disc information of the disc remains on the Disc Explorer until you load the disc information again by pressing LOAD or place a new disc in the same slot and play it.
- If you have inserted a disc whose disc information has not been loaded yet, you cannot select and play the disc on the Disc Explorer. The player skips the disc whose disc information differs from the loaded disc information, and plays the next disc. However, if you select FOLDER ALL, the disc is played.
- Even if the disc has the jacket picture recorded, the jacket picture may not appear on the Disc Explorer.

Filing Discs in the Folder OVD () CD

You can file your discs as you like in four individual folders, A to D. Even if you file discs from Folder ALL, DVD or CD to Folder A to D, those discs are not deleted from Folder ALL, DVD or CD. You can file up to 200 discs in one folder, and the same disc in different folders. If you file your favorite discs in a folder (A to D), you can play only those discs, or set Program Play, Shuffle Play and Repeat Play for the discs within the folder.



For example, to file a DVD in slot 8 to Folder A **1** Press FOLDER ALL.

You can also press FOLDER DVD.

The Disc Explorer of Folder ALL appears.

	- 1 D (1 -
Super Car Chase	Action
2	
Skling the World	Action
Music Madness	DVD
	CD
5	VideoCD
Select: []	

2 Press FILE.

"FILE" appears at the right bottom corner.

			D
1 Super Car Share	oer Car Chase	·	Action
	· · · · · · · · · · · · · · · · · · ·		
2			CD -
<u>ज हिंदी Skii</u>	ng the World		Action
<u> </u>			DVD
4 Mus	sic Madness		Pop
			CD
5			VideoCD
Select: (+) +	ENTER] Cance	I. RETURN	FILE

3 Select the disc using the number buttons, then press ENTER.

You can also use \uparrow/\downarrow and DISC SKIP +/-.

4 Press ENTER.

To file other discs repeat Steps 3 and 4.

	VDICCDIAN BOIC Super Car Chase	Action OVD	Disc to be
2 3	Skiing the World	CD Action DVD	Cursor moves to the next
4	Music Madness	Pop CD	disc
Select:		VideoCD	

5 Press FOLDER A.

"FILE" disappears from the Disc Explorer. Then the Disc Explorer of Folder A including the selected disc appears.

		計回後要素
	Super Car Chase	Action
		2.50
		n der 1
Select: A		· · · · · · · · · · · · · · · · · · ·
Select:		

To cancel the file mode

Press ***RETURN**. "FILE" disappears from the Disc Explorer.

🗳 You can sort the discs by genre or text information

The discs are listed first by slot number in the Disc Explorer. You can then sort the discs by desired genre or text and store them (page 31).

Deleting discs from a folder

You can delete unnecessary discs from Folder A to D. You cannot delete discs from Folder ALL, DVD or CD unless you remove the disc from the player.

1 Press the FOLDER (A/B/C/D) button of the disc you want to delete.

The Disc Explorer of the selected folder appears.

2 Press FiLE.

"FILE" appears at the right bottom corner.

3 Select the disc using the number buttons, then press ENTER.

You can also use \uparrow/\downarrow and DISC SKIP +/-.

4 Press ENTER.

To delete other discs, repeat Steps 3 and 4.



5 Press CLEAR.

The disc disappears from the folder. "FILE" disappears from the Disc Explorer.

2	· · · · · · · · · · · · · · · · · · ·	
4	Music Madness	Pop
23		CD
Select: (+	ENTER Cancel: RETU	JAN)

To cancel the file mode

Press & RETURN. "FILE" disappears from the Disc Explorer.

To cancel using the Disc Explorer

Press RETURN.

Labeling Discs (Disc Memo)/ Folders and Indicating the Genre OVD CD

When DVD TEXT or CD TEXT is not recorded on the disc, you can label the disc with a personal title of 16 characters (Disc Memo) or the folder with 3 characters on the Disc Explorer.

The Disc Memo can be anything you like, such as a title, musician's name, genre or date of purchase.

On the Disc Explorer, you can indicate the genre of the disc so that you can sort the disc by the genre.



Labeling a disc or folder

Select the disc or folder you want to label. To label a disc:

Select the disc on the Disc Explorer, then press EDIT. The selected disc only is highlighted and "EDIT" appears at the right bottom corner.



Playing Discs

To label a folder:

- 1 Press EDIT.
- 2 Press 🕇.

The folder A is highlighted.

	VDICDIA B C	D
2		CD
4	Music Madness	Pop
23		CD
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

 3 Select the folder you want to label by pressing ←/→.

ALL	VD] CD A	Ð	C	
6				
<u>کا</u>	<u></u>			CD
1.536	Music Madnes	5		Pop
		12:04	3	CD 1
		1411		1.14 (1)
<u>a</u>				CD
		*****	jang-	

2 Press ENTER.

The DISC MEMO INPUT display appears when you have selected a disc.

The FOLDER NAME INPUT display appears when you have selected a folder.



3 Select the character by pressing ←/↑/↓/→ or by turning the click shuttle.

The selected character changes color.



4 Press ENTER.

5 Repeat Steps 3 and 4 to input other characters.



6 When you have entered all the characters for the Disc Memo or folder name, press EDIT.

The DISC MEMO INPUT display or the FOLDER NAME INPUT display disappears and the Disc Memo or folder name is stored.

L AI		VD][.C		B	Ĵ.	Ð
2		BRAH	MS SYN	IPHON	(4	
	ļ,					CD
<u>*</u>	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Music	Madnes	S	n nu Sun Sun Sun Sun Sun Sun	Rop
			· · · · · · · · · · · · · · · · · · ·			CD,
23						
မျှ	. 2 1	13. 1. 65. m 1			a an	CD .
535						
					10.00	
x ≣ : 						
1.10	Falls 201					Manual States
Se	lect: 🚺	♦ EN	ITER C	ancel: (R	ETURN)	EDIT

7 Press SRETURN.

"EDIT" disappears from the Disc Explorer.

To correct the characters

- To erase a character:
 - Move the cursor to the character you want to erase by pressing I → I or turning the I → I dial.
 Press CLEAR.
- To insert or overwrite a character:
 - 1 Move the cursor to the character you want to correct by pressing I← / →→I or turning the I← / →→I dial.
 - 2 Select the correct character by pressing ←/↑/↓/→ or by turning the click shuttle.
 - 3 To insert the character, press ENTER.
 To overwrite, don't press ENTER but move the cursor by pressing ►► or turning the ►
 I dial clockwise.

Note

Even if you have removed the disc from the player, the disc information of the disc remains on the Disc Explorer until you load the disc information again by pressing LOAD or place a new disc in the same slot and play it.

Selecting a genre

- Select the disc for which you want to select a genre.
- 2 Press EDIT.

3 Press →, then ENTER.

The GENRE SELECTION display appears.

nedy For iller
z/R&B ers
intry Jaz

4 Select the genre by using the ←/↑/↓/→, then press ENTER.

If no jacket picture is recorded in the disc, the genre picture in the memory of the player is displayed.



5 Press & RETURN.

"EDIT" disappears from the Disc Explorer.

Labeling the disc or folder using a keyboard

To label the disc or folder, you can use an IBM compatible PC keyboard of the USA model* (not supplied) on the DISC MEMO INPUT or FOLDER NAME INPUT display.

* Power consumption must be 120 mA or less.



KEYBOARD jack

- 1 Connect a keyboard to the KEYBOARD jack on the front panel when the power of the player is not on.
- 2 Do Steps 1 and 2 on page 29 to display the DISC MEMO INPUT or FOLDER NAME INPUT display.
- 3 Input the characters on the keyboard.
- **4** Press ENTER on the keyboard to store the Disc Memo or folder name.

The DISC MEMO INPUT display or the FOLDER NAME INPUT display disappears and the Disc Memo or folder name is stored.

5 Press & RETURN.

"EDIT" disappears from the Disc Explorer.

Notes

- If the cursor keys do not work correctly and you cannot complete the task using the keyboard, disconnect the keyboard then reconnect it to the player and try again.
- If the keyboard is not the USA model, the characters may be input differently from those on the keys.

The USA keyboard layout is shown below.



Sorting Discs OVD

You can sort the discs in the folder by disc slot number, text information (DVD TEXT/CD TEXT/Disc Memo) or genre.

The text information is sorted alphabetically. In case of the genre, the selected genre comes first.





1 Select the folder you want to sort by using the FOLDER buttons.



2 If you want to sort by text information or genre, select the disc which has the desired text information or the genre by pressing ↑/↓.

A			D
m	1990 (n 990) 1997 - 1997 (n 990)	Super Car Chase	Action
	5.05/		DVD
(D)			1.2.1.0
<u>ل</u> ب			CD
3:	(C)	Skiing the World	Action
لككا	Sk/ C		DVD
		Music Madness	Pop
<u> </u>	21.2		CD
5.1			
<u>لينا</u>			VideoCD
Se	ect: 🚺	• ENTER Cancel: RETURN	

3 Press SORT.

The selected disc only is highlighted and "SORT" appears at the right bottom corner.



Sorting item indicator (green)

4 Select the item you want to sort by pressing ←/→.

You can select the disc number, text information or genre. The sorting item indicator moves to the selected item.



Sorting item indicator position when you sort by genre

5 Press ENTER.

The discs are sorted and re-displayed. The sorted order remains even if the power of the player is turned off.

AL			D
	231	Super Car Chase	Action DVD
3		Sking the World	Action DVD
2	A Line of		60
4	(1, Andrew 1, 1) (1, 1, 1, 1) (1, 1, 1) (1,	Music Madness	Pop
5			VideoCD
Sele	ect: 争		00000D

😧 The disc order in the same genre

The discs in the same genre are sorted by numerical order of the disc slot number.

Using Various Functions with the Control Menu

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

Using the Control Menu Display 👔 🖤 🐨 🔘

Using the Control Menu display, you can select the start point, change the angles, adjust the picture, set for Digital Cinema Sound, etc.

The items are different depending on the kind of disc. For details on each Control Menu display item, see pages 35 to 54.







- **1** Select the desired folder.
- 2 Press DISPLAY to show the Control Menu display on the TV screen.

123 C ALL 12(27) 18(34) C 01:32:55	PLAY >> DVD
To select, press ●●●●, then [ENTER).

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



4 Select the item you want using ↑/↓, then press ENTER.



V

	123 (27) 12(27) 18(34) C 01:32:55 OFF	PLAY DVD
To	select, press 🛋 🍽 🗭 , then ENTE	R.

Note

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

To cancel using the Control Menu display Press SRETURN.

To display other items

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



ϔ You can display some items using the remote

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

Control Menu Item List

(page 35) DISC

TITLE (DVD only) (page 35)

(DVD only) (page 35) CHAPTER

(VIDEO CD/CD only) (page 35) TRACK

INDEX (VIDEO CD/CD only) (page 35)

(VIDEO CD during PBC playback only) SCENE

(page 35)

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

тметехт (pages 36, 37, 38)

тіме/мемо (pages 36, 37, 38)

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

You can search by inputting the time code.

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

AUDIO (page 38)

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

SUBTITLE (DVD only) (page 40)

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 40)

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

1/ALL DISCS (page 41)

Select the 1 disc play mode or all discs play mode to set Program Play, Shuffle Play and Repeat Play.

PROGRAM (page 42)

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

SHUFFLE | (page 44)

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

REPEAT (page 45)

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

A-B REPEAT (page 46)

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

SURROUND (page 48)

Select the mode to enjoy multi-channel surround sound such as Dolby Digital.

Even if you connect only front speakers, Virtual Enhanced Surround (VES) lets you enjoy 3D sound by using 3D sound imaging to create virtual rear speakers from the sound of the front speakers (L, R) without using actual rear speakers.

When you connect 2 front speakers and 2 rear speakers, you can use the 3D sound imaging to shift the sound of the rear speakers away from the actual speaker position (VIRTUAL REAR SHIFT) or to create 3 sets of virtual rear speakers from 1 set of actual rear speakers (VIRTUAL MULTI REAR).

You can feel the more effective 3D sound when you connect a receiver (amplifier) with 5.1 channel inputs, 2 front speakers, 2 rear speakers, 1 center speaker and 1 subwoofer.



(DVD/VIDEO CD only) (page 50)

You can make the picture clearer by reducing the picture noise.

VIDEO EQ (DVD/VIDEO CD only) (page 50)

You can adjust the video output of the DVD or VIDEO CD from the player, not from the TV, to obtain the picture quality you want.

ANGLE (DVD only) (page 52)

With DVDs on which various angles (multi-angles) for a scene are recorded, you can display all the angles recorded on the disc on the same screen, and start playback in continuous mode at the chosen angle directly.

STROBE PLAYBACK (DVD/VIDEO CD only) (page 52)

You can display 9 consecutive sections of the disc on the screen. In this case, the sections show still images.

TITLE VIEWER (DVD only) (page 53)

CHAPTER (DVD only) (page 53)

TRACK VIEWER (VIDEO CD only) (page 53)

You can check the titles, chapters and tracks of the disc on the screen divided in 9 sections, and start playback from the chosen title, chapter or track.

BOOKMARK (DVD/VIDEO CD only) (page 53)

You can have the player store specific portions of the disc in memory and play them immediately whenever you want without the need to search.

ADVANCED (DVD only) (page 54)

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

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

You can search by selecting the disc/title/chapter/track/ index/scene in the current folder.

Select "DISC," "TITLE," " CHAPTER," " TRACK", "INDEX" or "SCENE" after pressing DISPLAY. When you play back a DVD, "TITLE" and " CHAPTER" are displayed.

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

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

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



2 Press → or ENTER.

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



3 Select the number of the disc, title, chapter, track, index or scene you want to search for using the number buttons, then press ENTER. The player starts searching. To cancel the number, press CLEAR before pressing ENTER.

To cancel selecting

Press & RETURN.

You can select a disc, chapter, track and scene directly by pressing the buttons on the remote or the player See "Playing Discs" on page 18.

Notes

- The number of titles, chapters or tracks displayed is that of the titles, chapters or tracks recorded on a disc.
- The index numbers are not displayed during PBC playback of VIDEO CDs.
- If you cannot search the desired disc in Step 3, the disc is not included in the current folder. To search the desired disc from all the discs in the player, press FOLDER ALL to select the ALL folder. As the Disc Explorer appears, press SRETURN to turn it off. Then select the desired disc on the Control Menu display.

Checking the Playing Time and Remaining Time

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

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

You can also check the DVD TEXT, CD TEXT and Disc Memo.



When playing a DVD

TIME/TEXT or TIME/MEMO

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

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

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

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

TIME/TEXT or TIME/MEMO

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

You can display the "TIME/TEXT" or "TIME/MEMO" display quickly

Press TIME/TEXT. Each time you press the button, the time information changes.
Selecting a Start Point Using the Time Code

You can search by inputting the time code. Select "TIME/TEXT" or "TIME/MEMO" after pressing DISPLAY.

The time code corresponds to the approximate actual playing time. For example, to search for a scene 2 hours 30 minutes 20 seconds past the beginning, input 2:30:20.



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

123 27 ALL	PLAY
12(27) 18(34)	DVD
18(34) C 01:32:55	
	i
}	
┣	
To select, press	ENTER).

2 Press \rightarrow or ENTER.

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



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

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

To cancel inputting

Press & RETURN.

Note

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

Checking the Information of the Disc

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

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

Press DISPLAY. If the disc has DVD TEXT or CD TEXT recorded, "TIME/TEXT" appears. If a Disc Memo can be input in the disc, "TIME/MEMO" appears. Press TIME/ TEXT until DVD/CD TEXT or Disc Memo is displayed. The information is displayed at the bottom of the display.



You can display the "TIME/TEXT" or "TIME/MEMO" display quickly

Press TIME/TEXT. To display DVD/CD TEXT or Disc Memo, press TIME/TEXT until DVD/CD TEXT or Disc Memo is displayed.

🍟 You can input the text information (Disc Memo)

You can input the Disc Memo on the Disc Explorer (see page 28).

Note

The DVD TEXT only in English is displayed.

Changing the Sounds

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

Select "AUDIO" after pressing DISPLAY.



EAUDIO

When playing a DVD

Select the language. The languages you can select are different depending on the DVD. When 4 digits are displayed, they represent the language code. Select the language code from the list on page 78.

When playing a VIDEO CD or a CD

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

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

Notes

- Depending on the DVD, you may not be able to change the languages even if multilingual sounds are recorded on the DVD.
- While playing the CD/VIDEO CD, the standard stereo playback will be resumed when:
 - you open or close the disc tray
 - you turn the power off
- While playing the DVD, the sound may be changed when: - you open or close the disc tray
 - you change the title
- If the language is displayed as a 4 digit number, refer to the language code list on page 78.

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

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

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



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

The case of Dolby Digital 5.1 ch:



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

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



Dolby Surround



Dolby Digital 5.1ch



•DTS



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

Use discs with the Digital logo. In order to enjoy Dolby Digital playback you must use discs bearing this logo.

Displaying the Subtitles

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

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

Colort (CLIPTITI D' 4

Select "SUBTITLE" after pressing DISPLAY.



Select the language. The languages you can select are different depending on the DVD. When 4 digits are displayed, they indicate the language code. Select the language code from the list on page 78.

🍹 You can display the "SUBTITLE" display quickly

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

Notes

- When playing a DVD on which no subtitles are recorded, no subtitles appear.
- Depending on the DVD, you may not be able to turn the subtitles on even if they are recorded on it.
- Depending on the DVD, you may not be able to turn the subtitles off.
- If the language is displayed as a 4-digit number, refer to the language code list on page 78.
- 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

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

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



1 Select "ANGLE."



2 Press →.

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

123 27 VALL 12(27) 18(34) C 01:32:55	PLAY DVD
-(9)	
Enter with number buttons, then	FNTER

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

The angle is changed to the selected angle.

	123 27 ALL 12(27) 18(34) C 01:32:55	PLAY DVD
	5(9)	
To	select, press 💓 💽, then 🖽	NTER]

Notes

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

You can specify the angle beforehand

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

🍹 You can select the angle directly

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

You can display different angles simultaneously (ANGLE VIEWER)

You can display all the angles recorded on the disc on the same screen, and start playback in continuous mode from the chosen angle directly. The angles are displayed on a screen divided in 9 sections. For details, see page 52.

Selecting the Disc Mode (1 Disc or All Discs)

Before setting Program Play, Shuffle Play, or Repeat Play, you need select whether to set those play modes on one disc or all discs.

Select "1/ALL DISCS" after pressing DISPLAY.



1/ALL DISCS

- <u>ALL DISCS</u>: allows you to set Program Play, Shuffle Play or Repeat Play for all the discs in the folder.
- 1 DISC: allows you to set Program Play, Shuffle Play or Repeat Play for 1 disc only.

$\mathbf{\hat{Q}}$ You can select the mode using the button of the player or remote

Press 1/ALL DISCS. Each time you press the button, 1 DISC or ALL DISCS mode is selected.

Creating Your Own Program (Program Play)

You can play the contents of one disc or all discs in the order you want by arranging the order of the titles, chapters or tracks to 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 indicator of the "PROGRAM" lights in green.



PROGRAM

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

Note

If the program contains a disc which is not included in the current folder, the disc will not be played during Program Play. To play all the discs in the program, select the ALL folder before you start Program Play.

Creating the program

1 Select "SET→" in "PROGRAM." The programming display appears.



2 Press ENTER.



3 Press the number button to select the disc, then press ENTER.

You can play only the currently selected disc when you select "1 DISC" in "1/ALL DISCS." To program more than 1 disc, press 1/ALL DISCS and select "ALL DISCS."



* "?" appears when the player has not loaded the disc information in the memory.

4 Select the title, chapter or track you want to program using $\frac{1}{4}$, then press ENTER. For example, select title1, chapter 2 in disc 3.

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

When playing a DVD

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



"D" indicates DVD.



When playing a VIDEO CD or CD

Select the track you want to program.

"V" indicates VIDEO CD; "C" indicates CD.



5 To program other discs, titles, chapters or tracks, repeat Steps 3 and 4.

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

6 Press ▷ to start Program Play.

To return to previous item

If you are selecting a disc, title, track or chapter, press

To cancel Program Play

Press CLEAR.

To cancel programming

Press PROGRAM.

To change programming

To change the disc, select the program number you want to change using \uparrow/ \downarrow after Step 1 or 4, then press ENTER. Then do Steps 3 and 4.

To change the title, chapter and track, select the desired one in Step 4.

To cancel the programmed order

To cancel all the titles, chapters or tracks in the programmed order, select "ALL CLEAR" after Step 1 or 4, then press ENTER.

To cancel the selected program, select the program using \uparrow/\downarrow after Step 1 or 4, then press CLEAR.

🝟 The program remains even after the Program Play ends

When you press 🗁, you can play the same program again.

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

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

You can display the "PROGRAM" display quickly Press PROGRAM.

🍟 You can load the disc information

Press LOAD in stop mode (see page 25) so that the player reads and loads the disc information.

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 Disc number 2 in the CD folder for Program 1, the front panel display will appear as follows:



Notes

- The program is canceled when you turn the power off.
- You may not be able to do Program Play depending on the DVD.
- While you are doing PBC playback, you cannot set a program unless you stop playback first.

Playing in Random Order (Shuffle Play)

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

Select "SHUFFLE" after pressing DISPLAY. When you do not select "OFF," the indicator of the "SHUFFLE" lights in green.



Selects the setting of Shuffle Play.

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

- <u>OFF</u>: does not play a disc in random order.
- DISC*: player "shuffles" discs in the folder and plays in a random order.
- TITLE: player "shuffles" titles in the folder and plays in a random order.
- CHAPTER: player "shuffles" chapters of DVDs in the folder and plays 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: player "shuffles" titles or tracks and plays 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.
- DISC*: player "shuffles" discs in the folder and plays in a random order.
- TRACK: player "shuffles" tracks in the folder and plays in a random order.
- * Appears only when you select "ALL DISCS" in "1/ALL DISCS."

To cancel Shuffle Play

Press CLEAR

🍟 You can set Shuffle Play during stop

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

You can display the "SHUFFLE" display quickly Press SHUFFLE.

Notes

- Shuffle Play is canceled when:
- you open or close the front cover
- you turn the power off
- You may not be able to do Shuffle Play depending on the DVD.
 Up to 96 chapters in a disc can be played in a random order
- when "CHAPTER" is selected.

Playing Repeatedly (Repeat Play)

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

In Shuffle or Program Play mode, the player repeats the titles or tracks in the shuffled or programmed order. You cannot do Repeat Play during PBC playback of VIDEO CDs (page 22).

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

Select "REPEAT" after pressing DISPLAY. When you do not select "OFF," the indicator of the "REPEAT " lights in green.



REPEAT

Selects the setting of Repeat Play.

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

- OFF: does not play repeatedly.
- DISC: repeats all the titles on the selected disc when you select "1 DISC" in "1/ALL DISCS," and repeats all titles on all discs in the folder when you select "ALL DISCS."
- TITLE: repeats the current title.
- CHAPTER: repeats the current chapter.

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

- OFF: does not play repeatedly.
- DISC: repeats all the tracks on the selected disc when you select "1 DISC" in "1/ALL DISCS," and repeats all tracks on all discs in the folder when you select "ALL DISCS."
- TRACK: repeats the current track.

When Program Play or Shuffle Play is set to ON

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

To cancel Repeat Play

Press CLEAR.

Playing Repeatedly (Repeat Play)

🍟 You can set Repeat Play during stop

After selecting the item of "REPEAT," press D. The player starts Repeat Play.

You can display the "REPEAT" display quickly Press REPEAT.

Note

Repeat play is canceled when you turn the power off.

Repeating a Specific Portion (A↔B Repeat)

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

During PBC Playback of VIDEO CDs (page 22), this function is available only while playing moving pictures. You may not be able to do $A \leftrightarrow B$ Repeat Play depending on the DVD.

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



A-B REPEAT

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

Setting a portion for $A \leftrightarrow B$ repeat

 Select "SET→" in "A-B REPEAT." The A→B REPEAT setting display appears.



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

The starting point (point A) is set.



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

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

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



To cancel A↔B Repeat Play

Press CLEAR.

Notes

- You can set A↔B Repeat on only one specific portion.
- you turn the power off
- When you set A↔B Repeat, the settings for Shuffle Play and Program Play are canceled.
- You may not be able to set A↔B Repeat, depending on the scene of the DVD or the VIDEO CD.
- You cannot set the start point (point A) on one disc and ending point (point B) on other disc.

Setting for Digital Cinema Sound 👔 🖤 🐨 🛈

Using Various Functions with the Control Menu

Select the mode to enjoy multi channel surround sound such as Dolby Digital.

Even if you connect only front speakers, Virtual Enhanced Surround lets you enjoy 3D sound by using 3D sound imaging to create virtual rear speakers from the sound of the front speakers (L, R) without using actual rear speakers.

When you connect 2 front speakers and 2 rear speakers, use 3D sound imaging to shift the sound of the rear speakers away from the actual speaker position (VIRTUAL REAR SHIFT) or to create 3 sets of virtual rear speakers from 1 set of actual rear speakers (VIRTUAL MULTI REAR).

You can feel the more effective 3D sound when you connect a receiver (amplifier) with 5.1 channel inputs, 2 front speakers, 2 rear speakers, 1 center speaker and 1 subwoofer.

Select "VIRTUAL 3D SURROUND" after pressing DISPLAY twice. When you select the item except "OFF," the indicator of the "VIRTUAL 3D SURROUND " lights in green.

Note

To enjoy the original Dolby Digital sound through the 5.1CH OUTPUT connectors, set each speaker position or distance, etc. For details on setting each speaker, see page 65.



EVIRTUAL 3D SURROUND

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

- <u>OFF</u>
- VES A*
- VES B*
- NORMAL SURROUND
- ENHANCED SURROUND
- VIRTUAL REAR SHIFT
- VIRTUAL MULTI REAR
- * These settings also effect the output from the LINE OUT (AUDIO 1, 2) connectors.

Note

The items displayed are different depending on the settings of "SPEAKER SETUP" (page 65). You can select only "OFF," "VES A" or "VES B" when you play back a disc and set "NONE" in "REAR" in "SIZE" under "SPEAKER SETUP" in the setup display.

Effects of each item

OFF

Outputs all channel signals recorded on the disc. For example, outputs 2-channel signals for stereo sound of the CD or 5-channel signals for Dolby Digital sound of the DVD. When you connect fewer than 5 (+1) speakers, the player distributes the output signal for the missing speaker to other speakers appropriately.

VES (Virtual Enhanced Surround) A

Uses 3D 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.



VES (Virtual Enhanced Surround) B

Uses 3D 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.



NORMAL SURROUND

Software with 2 channel audio signals, is decoded with Dolby Pro Logic to create surround effects.

ENHANCED SURROUND

Provides a greater sense of presence from Pro Logic source with monaural rear channel sound. Produces a stereo like effect in the rear channels.

VIRTUAL REAR SHIFT

Uses 3D sound imaging to shift the sound of the rear speakers away from the actual speaker position. The virtual speakers are reproduced as shown in the illustration below. The shift position differs according to the setting of the rear speaker position.



VIRTUAL MULTI REAR

Uses 3D sound imaging to create an array of virtual rear speakers from a single pair of actual rear speakers. The virtual speakers are reproduced as shown in the illustration below. The position of the virtual rear speakers differs according to the setting of the rear speaker position.



* See page 65 for details on how to set the rear speaker position.

- L: Front speaker (left)
- R: Front speaker (right)
- SL: Rear speaker (left)
- SR: Rear speaker (right)
- 🔆 Virtual speaker

Notes

- Some discs do not have rear sound. In this case, you cannot get the 3D surround effect.
- When you select an item, the sound cuts off for a moment.
- When the playing signal does not contain the surround component, the effects may be difficult to hear even if you select "VES A" or "VES B."
- If you connect the front speakers only, "NORMAL SURROUND," "ENHANCED SURROUND," "VIRTUAL REAR SHIFT" and "VIRTUAL MULTI REAR" cannot be selected.
- Set the front speakers to form an equilateral triangle including the listening position, or the effects may be difficult to hear even if you select "VES A" or "VES B."
- In case that the player outputs the signal from DIGITAL OUT (OPTICAL, COAXIAL), the surround effect will be heard only when you set "DOLBY DIGITAL" to "D-PCM" in "AUDIO SETUP."
- When you play sound tracks with 96 kHz sampling frequency, be sure to select "OFF," or the output signals will be converted to 48 kHz (sampling frequency). (Except when the player outputs the audio signal from DIGITAL OUT (OPTICAL, COAXIAL).)
- When you connect a center speaker and a subwoofer, you can also hear the sound from the center speaker and the subwoofer.
 When you select "VES A" or "VES B," the player does not output the sound from the center speaker.
- When you select "VES A" or "VES B," set the surround settings of the connected units such as the amplifier to OFF.

Reducing the Picture Noise (DNR: Digital Video Noise Reduction) (1) (10)

You can make the picture clearer by reducing the picture noise of the background.

Select "DNR" after pressing DISPLAY twice.

When you select "DNR1," "DNR2," or "DNR3," the indicator of the "DNR" lights in green.



IDNR

As the value increases, the picture noise will be reduced. However, afterimages may increase.

- OFF: turns off the DNR function
- DNR1
- DNR2
- DNR3

Notes

- Depending on the disc, the effect may be difficult to tell.
- If the afterimages appear on the TV screen, set the noise reduction function to off on your TV. Then set "DNR" to "OFF" on the Control Menu display.

Adjustments for Playback Picture (VIDEO EQ: Video Equalizer) 👔 🖤 🖤

You can adjust the video output of the DVD or VIDEO CD from the player, not from the TV, to obtain the picture quality you want. Choose one of the video modes whichever best suits the program you are watching. When you select "MEMORY→" in a menu item, adjust the value.

Select "VIDEO EQ" after pressing DISPLAY twice.



VIDEO EQ

Selects the setting of video control.

- STANDARD: displays a standard picture
- DYNAMIC: emphasizes the black level and so produces a bolder dynamic picture
- CINEMA: displays the picture with soft focus
- MEMORY : adjusts the picture items

To adjust the picture items

You can adjust the following picture items individually.

- PICTURE
- BRIGHTNESS
- COLOR
- SHARPNESS

1 Select "MEMORY→" in "VIDEO EQ."

The video control display appears.



 2 Select the picture item you want to adjust using ↑/↓, then press ENTER.

The adjustment bar of the selected item appears. To cancel adjusting the picture halfway, press



3 Adjust the selected picture item using ←/→, then press ENTER.

The setting is stored in memory.

VIDEO EQUALIZ	E R
PICTURE BRIGHTNESS COLOR SHARPNESS STANDARD	
	Cancel:[HETURN]

4 To adjust other items, repeat Steps 2 and 3.

To exit the video control display Press TRETURN.

To reset the picture items Select "STANDARD" in "MEMORY**—**."

Note

Only one setting of the picture items you adjusted in "MEMORY" can be stored. When you adjust the items, new setting erases the setting adjusted before.

Displaying Different Angles Simultaneously 👔 🖤

With DVDs on which various angles (multi-angles) for a scene are recorded, you can display all the angles recorded on the disc on the same screen, and start playback in continuous mode at the chosen angle directly. The angles are displayed on a screen divided in 9 sections. Select "ANGLE VIEWER" after pressing DISPLAY twice. When you can select "ANGLE VIEWER," the indicator of the "ANGLE VIEWER" lights in green.



To select the one angle

Select the angle using (/////), then press ENTER. The selected angle only is displayed.

To cancel displaying multi-angles Press & RETURN.

🍟 You can check the number on the front panel display

The number of the angle you select is displayed on the front panel display.

Notes

- Depending on the DVD, you may not be able to change the angles even if multi-angles are recorded on the DVD.
- When a scene for which various angles (multi-angles) are not recorded comes while displaying different angles simultaneously, the player returns to the normal play.

Dividing a Track into 9 Sections (Strobe Play)

You can display 9 consecutive sections of the disc on the screen. In this case, the sections show still images. Select "STROBE PLAYBACK" after pressing DISPLAY.



To cancel watching the strobe play

Press & RETURN.

Ŷ During pause mode, 9 still images around the pause position are displayed

It is convenient to see the still images around the specific portion.

Note

Depending on the disc, there are some scenes you may not be able to watch with the strobe play.

Scanning the Title, Chapter and Track 👔 🖤

You can check the top picture of titles, chapters and tracks of the disc on a screen divided in 9 sections, and start playback from the chosen title, chapter or track. Select "TITLE VIEWER"(DVD only), "CHAPTER VIEWER"(DVD only) or "TRACK VIEWER"(VIDEO CD only) after pressing DISPLAY twice.



To start playback from the selected picture

Select the picture using (+////), then press ENTER. The playback starts from the selected picture.

ϔ When there are over 9 titles or chapters

▼ appears at the right bottom of the screen. Select the right bottom scene (the position of 9) and use ↓ to display next titles, tracks or chapters. To return to the previous scene, select the left top scene (the position of 1) and press ↑.

1	2	3	
4	5	6	
7	8	9	T

You can check the number on the front panel display

The number of the title, chapter and track you select is displayed on the front panel display.

To cancel scanning the title, chapter and track Press & RETURN.

Notes

- Depending on the disc, you may not be able to scan the title, chapter and track.
- You cannot scan the track on a VIDEO CD during PBC playback.

Setting and Selecting Favorite Scene (Bookmark)

You can have the player store specific portions of the disc in memory and play them immediately whenever you want without the need to search (Bookmark). You can set up to 9 bookmarks per disc. The bookmark of the disc is reset when the disc is removed from the player. Select "BOOKMARK" after pressing DISPLAY. When you play the disc which has bookmarks, the indicator of the "BOOKMARK" lights in green.



To start playback from the selected picture

Select the picture using (/////), then press ENTER. The playback starts from the selected picture.

To cancel scanning the bookmark pictures Press SRETURN.

To reset the bookmark

Select the point on which you want to reset the bookmark using $\leftarrow/\uparrow/\downarrow/\rightarrow$, then press CLEAR.

To reset the all bookmarks of the player

Select "BOOKMARK RESET→" under the "CUSTOM SETUP" in the setup display. For details on resetting all the bookmark of the player, see page 60.

Setting the bookmark

During playback, when you find the scene to be bookmarked, press BOOKMARK on the remote. The bookmark is set.

Note

You may not set the bookmark depending on the discs.

Checking the Play Information 👔 💵

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



ADVANCED

When playing a DVD

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

Displays of each item

BIT RATE



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

BIT RATE HISTORY



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

LAYER



Indicates the approximate point where the disc is playing.

If it is a dual-layer DVD, the player indicates which layer is being read.

For details on the layers, see page 76 (DVD).

Settings and Adjustments

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

Using the Setup Display 👔

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

For details on each setup display item, see pages 58 to 66.

Note

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



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

	LANGUAGE SETUP
	OSO: ENGLISH DVD MENU: ENGLISH AUDIO: ORIGINAL SUBTITLE: AUDIO FOLLOW
To To	set, press (), then(ENTER) . quit, press (SETUP) .

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

The selected main item is highlighted.



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



<u>م</u>لک

	SCREEN SETUP TV TYPE SOREEN SAVER 14:3 LETTER BOX SOREEN SAVER 14:3 LETTER BOX BACKGROUND 4:3 PAN SCAN 16:9/4:3 WIDE MODE		
To :	To set, press ()), then (<u>ENTER</u>).		
To :	To quit, press (<u>SETUP</u>).		

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



To cancel using the setup display

Press SET UP on the remote.

Note

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

Setup Display Item List

Default settings are underlined.



- ON

Setting the Language for Display and Sound (LANGUAGE SETUP)

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

Note

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



BOSD (On-Screen Display)

Switches the language for the on-screen display.

- ENGLISH
- FRENCH
- SPANISH

DVD MENU

Switches the language for the DVD menu.

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

When you select "OTHERS," select and enter the language code from the list using the number buttons (page 78). After you have once selected, the language code (4 digits) is displayed.

MAUDIO

Switches the language for the sounds.

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

When you select "OTHERS →," select and enter the language code from the list using the number buttons (page 78). After you have once selected, the language code (4 digits) is displayed.

Switches the language for the subtitles.

- <u>AUDIO FOLLOW*</u>
- ENGLISH
- FRENCH
- SPANISH
- PORTUGUESE
- GERMAN
- ITALIAN
- DUTCH
- CHINESE
- JAPANESE
- DANISH
- SWEDISH
- FINNISH
- NORWEGIAN
- RUSSIAN
- OTHERS

When you select "OTHERS," select and enter the language code from the list using the number buttons (page 78). After you have once selected, the language code (4 digits) is displayed.

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

Note

The player gives priority to the settings of "SUBTITLE" and "AUDIO" in the Control Menu display when "PLAYBACK MEMORY" is set to "ON." The settings of "SUBTITLE" and "AUDIO" selected in the setup display may not appear in this case. For details on the Playback Memory function, see page 60.

Settings for Display (SCREEN SETUP) 👔 💵 🚥

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

Default settings are underlined.



WTV TYPE

Selects the aspect ratio of the TV to be connected.

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

4:3 LETTER BOX



4:3 PAN SCAN



16:9



4:3 WIDE MODE



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 is useful to prevent your display from becoming damaged.

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

BACKGROUND

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

- <u>IACKET PICTURE</u>: The jacket picture appears in the background, but only when the jacket picture is already recorded on the disc.
- PICTURE MEMORY: Your favorite picture appears in the background when you have the player store in memory your favorite scene recorded on the disc for the background picture. For the way of storing in memory, see "Storing the picture in memory."
- GRAPHICS: The graphic picture stored in memory in the player beforehand appears in the background.
- BLUE: The background color is blue.
- BLACK: The background color is black.

Note

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

Storing the picture in memory

During playback, when you find the scene to be stored in memory, press PICTURE MEMORY on the remote. The picture is stored in memory.



Notes

- The player can store in memory only one scene. The stored picture appears in the background.
- When the picture is stored in memory by pressing PICTURE MEMORY, the picture stored before is not retained in memory.

Custom Settings (CUSTOM SETUP)

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

Default settings are underlined.



AUTO PLAY

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

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

DIMMER

Adjusts the lighting of the front panel display.

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

PAUSE MODE (DVD only)

Selects the picture in pause mode.

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

■BOOKMARK RESET→

Select "BOOKMARK RESET." The BOOKMARK reset display appears. And then press ENTER to reset <u>all</u> bookmarks.

■PARENTAL CONTROL→

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

PLAYBACK MEMORY

You can have the player store the settings of SUBTITLE and VIDEO EQ, etc., of each disc. The Playback Memory is reset when the disc is removed from the player. Set the Playback Memory function on or off.

- <u>ON</u>: stores the settings in memory when you eject the disc.
- OFF: does not store the settings in memory.

Following settings are stored in memory with the Playback Memory function.

- AUDIO (page 38)
- SUBTITLE (page 40)
- ANGLE (page 40)
- VIRTUAL 3D SURROUND (page 48)
- DNR (page 50)
- VIDEO EQ (page 50)

Limiting Playback by Children (Parental Control)

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



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



When you have not entered a password yet

The display for entering a password appears.



When you have already entered a password

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



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

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



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

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



4 Select "STANDARD" using ↑/↓, then press →.



5 Select an area as the standard for playback limitation level using ↑/↓, then press →.

When you select "OTHERS," select and enter the standard code in the table below using number buttons.



6 Select "LEVEL" using **↑**/↓, then press →.



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



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

Press SET UP.

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

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

To change the password

- After Step 3, select "CHANGE PASSWORD" using
 ↑/↓, then press → or ENTER.
- The display for changing the password appears.
- 2 Follow Steps 2 and 3 to enter a new password.

You can turn off the Parental Control function just after inserting the DVD (Parental Control Temporarily Canceled) When you set a playback limitation level and insert the DVD, the

PARENTAL CONTROL display appears. Enter the password to turn off the Parental Control function.

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

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

Notes

- When you play DVDs which do not have the Parental Control function, playback cannot be limited on this player.
- When you do not set a password, you cannot change the settings for playback limitation.

• Depending on the DVD, you may be asked to change the parental control level while playing the disc. In this case, enter the password, then change the level. When you stop playing the DVD, the level returns to the

original level.

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

Settings for Sound (AUDIO SETUP)

Select "AUDIO SETUP" after pressing SET UP.

"AUDIO SETUP" allows you to set the sound according to the playback conditions.

Default settings are underlined.



EAUDIO ATT (attenuation)

Selects the setting of the output from the LINE OUT (AUDIO 1, 2) and 5.1CH OUTPUT connectors according to the audio equipment to be connected.

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

Note

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

AUDIO FILTER

Selects the type of digital filter to reduce the noise of a frequency higher than 22.05kHz (fs 44.1kHz), 24kHz (fs 48kHz) or 48kHz (fs 96kHz).

- <u>SHARP</u>: makes the sound clear and provides smooth sound reproduction. Normally set this position.
- SLOW: makes the sound warm and deep.

Note

Depending on the disc, the effect on the sound may be difficult to hear.

■AUDIO DRC (Dynamic Range Control)

Makes the sound clear with the volume turned down at night, etc., when you play a DVD. This affects the output from the DIGITAL OUT connectors only when "PCM" in "DIGITAL OUT" is set to "ON," and it affects the output from the LINE OUT (AUDIO 1,2), and 5.1CH OUTPUT connectors.

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

Notes

- When you play DVDs without the AUDIO DRC function, there may be no effect on the sound.
- When this item is set to "WIDE RANGE," the sound volume from other than the 5.1CH OUTPUT connectors may be less than usual.
- "WIDE RANGE" cannot be selected when you have selected "NONE" in "SIZE" under "SPEAKER SETUP."

TRACK SELECTION

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

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

Notes

- When the player stores the settings in memory with the Playback Memory function, the player may not give priority even if you select "AUTO."
- When you set this item to "AUTO," the language may change depending on the "AUDIO" settings in "LANGUAGE SETUP." The "TRACK SELECTION" setting has higher priority than that of "AUDIO" settings in "LANGUAGE SETUP" (page 52).
- If you set "DTS" in "AUDIO SETUP" to "OFF," the DTS sound track is not played even if you set this item to "AUTO" and the highest-numbered channel audio is recorded in DTS format.
- If PCM, DTS and Dolby Digital sound tracks have the same number of the highest channels, the player selects PCM, DTS and Dolby Digital sound tracks, in this order.
- Depending on the DVD, the audio with priority may be predetermined. In this case, you cannot give priority to the DTS or Dolby Digital format by selecting "AUTO."

DOWNMIX*

Switches the mixing down methods when you play a DVD on which the sound in Dolby Digital format is recorded.

- <u>DOLBY SURROUND</u>: when the player is connected to an audio component that conforms to Dolby Surround. (Pro Logic)
- NORMAL: when the player is connected to a normal audio component.
- * The setting affects the following connectors:
 -LINE OUT (AUDIO 1, 2) connectors
 -DIGITAL OUT (OPTICAL, COAXIAL) connectors.

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

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

Notes

- When you play the sound tracks with 96 kHz sampling frequency, the output signals from the DIGITAL OUT (OPTICAL, COAXIAL) are converted to 48 kHz (sampling frequency). When the signals are output from LINE OUT (AUDIO 1, 2) connector, sampling frequency stays at 96 kHz and the output signals are converting to analog signals.
- When you select "OFF," You cannot set "DOLBY DIGITAL" and "DTS."

Setting for the Signal to the Digital Output

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

Switches the methods of outputting audio signals when you connect a digital component such as a receiver (amplifier) having a digital connector, an audio component having a built-in DTS decoder, a DAT or MD via the DIGITAL OUT OPTICAL or COAXIAL connector using an optical or coaxial digital connecting cord. For details on the connection, see page 11.



DOLBY DIGITAL

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

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

Note

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

Speaker Set Up

DTS

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

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

Note

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

- Do not play the DTS sound tracks without connecting the player to an audio component having a built-in DTS decoder. You cannot hear the DTS sound unless you connect the player to an audio component having a built-in DTS decoder.
- When you play the DTS sound track on a CD, a loud noise may come out from the LINE OUT (AUDIO 1, 2), 5.1CH OUTPUT and PHONES connectors, affecting your ears or causing the speakers or headphones to be damaged.
- When you play the DTS sound track on a DVD, no sounds will come out from the LINE OUT (AUDIO 1, 2), 5.1CH OUTPUT and PHONES connectors.

Notes on playing the DTS sound tracks on a CD

- Do not play the DTS sound tracks without connecting the player to an audio component having a built-in DTS decoder. The player output the DTS signal via the DIGITAL OUT OPTICAL and COAXIAL connectors even if "DTS" in "AUDIO SETUP" is set to "OFF" in the setup display, affecting your ears or causing the speakers to be damaged.
- The DTS indicator on the front panel does not light up even if the player outputs DTS signal via the DIGITAL OUT OPTICAL and COAXIAL connectors.
- Set the sounds to "STEREO" when you play the DTS sound tracks on a CD. (See "Changing the Sounds" on page 38.) If you set the sounds to "1/L" or "2/R", no sounds will come out from the DIGITAL OUT OPTICAL and COAXIAL connectors.

Notes on playing the DTS sound tracks on a DVD

- No sounds will come out from the LINE OUT (AUDIO 1, 2) and PHONES connectors.
- If the player is connected to an audio component lacking a built-in DTS decoder, do not set "DTS" in "DIGITAL OUT" to "ON" in the setup display. Otherwise, when you play the DTS sound track, a loud noise will come out from the speakers, affecting your ears or causing the speakers to be damaged.
- When you set "DTS" in "AUDIO SETUP" to "OFF," no sound will come out from the DIGITAL OUT OPTICAL and COAXIAL connectors even if you play DTS sound tracks on DVDs.

Select "SPEAKER SETUP" after pressing SET UP. To obtain the best possible surround sound, first specify the size of the speakers you have connected and their

distance from your listening position, then set the balance and level. Use the test tone to adjust the speaker volumes to the same level.

For the speaker hook ups, see pages 12 to 13.



SIZE

Selects the size of the speakers to be connected.

- FRONT
 - LARGE: Normally select this.
 - SMALL: When the sound cracks or the effects of the surround is difficult to hear, select this. This activates the Dolby Digital bass redirection circuitry and outputs the bass frequencies of the speaker from subwoofers.
- CENTER
 - <u>NONE</u>: If you will not connect a center speaker, select this.
 - LARGE: Normally select this.
 - SMALL: When the sound cracks, select this. This activates the Dolby Digital bass redirection circuitry and outputs the bass frequencies of the speaker from some other speakers.
- REAR
 - <u>NONE</u>: If you will not connect a rear speaker, select this.
 - LARGE (REAR*/SIDE*): Normally select this.
 - SMALL (REAR*/SIDE*): When the sound cracks or the effects of the surround is difficult to hear, select this. This activates the Dolby Digital bass redirection circuitry and outputs the bass frequencies of the speaker from some other speakers.
- SUBWOOFER
 - <u>NONE</u>: If you do not connect a subwoofer, select this. This activates the Dolby Digital bass redirection circuitry and outputs the LFE (low frequency effects) signals from the front speakers.
 - YES: If you connect a subwoofer, select this to output the LFE (low frequency effects) channel from the subwoofer.

Speaker Set Up

* Rear speaker position (REAR/SIDE)

These items let you specify the location of your rear speakers for proper implementation of "VIRTUAL REAR SHIFT" and

"VIRTUAL MULTI REAR" in the Control Menu display. Refer to the illustration below.

- Set to "SIDE" if the location of your rear speakers corresponds to section A.
- Set to "REAR" if the location of your rear speakers correcponds to section B.

This setting effects only the "VIRTUAL REAR SHIFT" and "VIRTUAL MULTI REAR" mode.



Notes

- When you select an item, the sound cuts off for a moment.
- The cut off frequency for the subwoofer is fixed at 100Hz.
- Set the subwoofer's cut off frequency as high as possible.
- Depending on the settings of other speakers, the subwoofer may output excessive sound.
- If your speakers are too small to reproduce low bass frequencies, set all speaker settings to "SMALL" and utilize a subwoofer for low frequency sound.

DISTANCE

You can vary the distance of each speaker as follows. Default adjustments are in the parentheses.

• FRONT (12ft/3.6m)

Front speaker distance can be set in 1 foot/0.3 meter steps from 4 to 50 feet/1.2 to 15.2 meters.

CENTER (12ft/3.6m)

Center speaker distance can be set in 1 foot/0.3 meter steps from a distance 2 feet/0.6 meter farther to the front speaker to a distance 5 feet/1.6 meters closer to your listening position.

• REAR (10ft/3.0m)

Rear speaker distance can be set in 1 foot/0.3 meter steps from a distance equal to the front speaker distance to a distance 16 feet/5 meters closer to your listening position.

Notes

- When you set the distance, the sound cuts off for a moment.
- If each of the front or rear speakers are not placed an equal distance from your listening position, set the distance of the closest speaker.
- Do not place the rear speaker farther away from your listening position than the front speakers.

BALANCE

You can vary the balance of each speaker as follows. Default adjustments are in the parentheses.

• FRONT (0dB)

Adjust the balance between the front left and right speakers (-6dB [L] to +6dB [R], 0.5dB steps).

• REAR (0dB)

Adjust the balance between the rear left and right speakers (-6dB [L] to +6dB [R], 0.5dB steps).

Note

When you select "VES A" or "VES B" in "VIRTUAL 3D SURROUND" in the Control Menu display, you cannot adjust the level or the balance of the speakers except for the front speakers.

You can vary the level of each speaker as follows. The front speaker level becomes the criterion for adjusting. Default adjustments are in the parentheses.

- CENTER (0dB) Adjust the level of the center speaker (-6dB to +6dB, 0.5dB steps).
- REAR (0dB)

Adjust the level of the rear speakers (-6dB to +6dB, 0.5dB steps).

• SUBWOOFER (0dB) Adjust the level of the subwoofer (-10dB to +6dB, 0.5dB steps).

TEST TONE

You can hear the test tone from each speaker in sequence.

- OFF: The test tone is not emitted from speakers.
- ON: During adjustment of "BALANCE" or "LEVEL," the test tone is emitted from both speakers simultaneously.

Note

While you are playing a disc, you cannot hear the test tone. Execute the test tone after you stop playback.

To adjust the volume of all the speakers at one time

Use the receiver's (amplifier's) volume control.

To return to the default setting

Select the item, then press CLEAR.

Adjusting the speaker volume

- While you stop playback, select "SPEAKER SETUP" after pressing SET UP.
- **2** Select "TEST TONE" and set "TEST TONE" to "ON." You will hear the test tone from each speaker in sequence.
- 3 From your listening position, select "BALANCE" or "LEVEL" and adjust the value of "BALANCE" and "LEVEL" using ↑/↓.

During this adjustment, the test tone is emitted from both speakers simultaneously.

4 Select "TEST TONE" and set "TEST TONE" to "OFF" to turn off the test tone.

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

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

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



Controlling TVs with the remote

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

Code numbers of controllable TVs

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

Notes

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

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

Manufacturer	Code number	Manu
Sony (default)	01	Panas
Akai	04	– – Philco
AOC	04	— <u> </u>
Centurion	12	Pione
Coronado	03	– – Portla
Curis-Mathes	12	Quasa
Daytron	12	– – Radio
Emerson	03,04,14	RCA
Fisher	11	– – – Sampo
General Electric	06,10	Sanyo
Gold Star	03,04,17	Scott
Hitachi	02,03	Sears
J.C.Penny	04,12	 Sharp
JVC	09	- <u> </u>
КМС	03	– – Teknik
Magnavox	03,08,12	– – – – – – – – – – – – – – – – – Toshib
Marantz	04,13	Wards
MGA/Mitsubishi	04,12,13,17	Yorx
NEC	04,12	Zenith

Manufacturer	Code number
Panasonic	06,19
Philco	03,04
Philips	08
Pioneer	16
Portland	03
Quasar	06,18
Radio Shack	05,14
RCA	04,10
Sampo	12
Sanyo	11
Scott	12
Sears	07,10,11
Sharp	03,05,18
Sylvania	08,12
Teknika	03,08,14
Toshiba	07
Wards	03,04,12
Yorx	12
Zenith	15

When you set the TV/DISC EXPLORER/DVD switch to TV, you can control your TV using the keys below.



By pressing	You can	
I/也 (POWER)	Turn the TV on or off	
TV/VIDEO*	Select the input source for the TV	
VOL*	Adjust the volume of the TV	
СН	Change the channel of the TV	
Number buttons and ENTER	Select the channel of the TV	

* You can control the TV regardless of the position of the TV/ DISC EXPLORER/DVD switch.

Note

Depending on the TV, you may not be able to control your TV or to use some of the buttons above.

Controlling an AV receiver (amplifier) with the remote

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

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

Code numbers of controllable receivers (amplifiers)

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

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



Notes

- Depending on the AV receiver (amplifier), you may not be able to control your AV receiver (amplifier).
- You can control the AV receiver (amplifier) regardless of the position of the TV/DISC EXPLORER/DVD switch.

Controlling the CD Changer (Mega Control)

You can control a Sony CD changer of 5/50/200/300 discs connected to the MEGA CONTROL jack of the player.

Connecting the CD changer



This player

Controlling the CD changer

The controls indicated below are effective while the MEGA CONTROL button is lit.





- 1 Set the command mode selector of the CD changer to "CD 3."
- 2 Turn on the player and the CD changer.
- **3** Press MEGA CONTROL.

The MEGA CONTROL button of the front panel lights up and the display shows the current disc number of the CD changer.

- 4 Select the play mode you want on the CD changer.
- 5 Press >> on the player to start playing.

The playback starts and the display shows the current disc and track numbers and the playing time of the track.

While the MEGA CONTROL button of the front panel is lit, you can control the CD changer with the controls on the player as follows:

То	Operation
Select a disc in continuous play mode	Press the number button on the remote and ENTER, or ↑/↓ and ENTER, or turn the click shuttle of the player slowly.
	Press the dial function select button to turn the DISC CHANGE indicator on, then turn the I / I dial and press it.
Skip by 10 discs in continuous play mode	Press \leftarrow/\rightarrow , then press ENTER.
Stop	Press .
Pause	Press II.
Resume play after pause	Press II or 🗁.
Go to the next track	On the player: Press the dial function select button to turn the DIRECT SEARCH indicator on, then turn the H / D dial clockwise.
	On the remote: Press ►►I.
Go back to the preceding track	On the player: Press the dial function select button to turn the DIRECT SEARCH indicator on, then turn the I
	On the remote: Press I≪ .

To control the player again

Press MEGA CONTROL on the player or the remote. The MEGA CONTROL button goes off and you can control the player.

Notes

- Connect only a Sony CD changer of 5/50/200/300 discs to the MEGA CONTROL jack.
- You cannot locate a particular point in a track of the CD changer using the controls on the player.
- Depending on the CD changer, some controls on the player may not operate the CD changer as they do the player.
- You cannot control the player when the MEGA CONTROL button on the front is lit.
- The player will not enter Resume Play after the MEGA CONTROL button on the front has been turned on and off.
- You cannot control the CD changer right after turning on the player or connecting the CD changer. Wait a few seconds until the player recognizes the CDs.

Additional Information

Troubleshooting

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

Power

The power is not turned on.

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

Picture

There is no picture.

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

The picture noise appears.

- \rightarrow Clean the disc.
- ➡ If video from your DVD player has to go through your VCR to get to your TV, the copy-protection applied to some DVD programs could affect picture quality. If you still experience problems after checking your connections, please try connecting your DVD player directly to your TV's S video input, if your TV is equipped with this input (page 8).
- ➡ In the Control Menu display, set "VIDEO EQ" to "STANDARD" (page 50).

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

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

Troubleshooting

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 position on the receiver (amplifier) so that you can listen to the sound from the player.
- ➡ The player is in pause mode or in Slow-motion Play mode. Press ▷ to return to normal play mode.
- ➡ Fast forward (FF1 or FF2) or fast reverse (FR1 or FR2) is performed. Press ▷→ to return to normal play mode.
- Check the speaker connections and settings (pages 12, 65). Refer to the operating manual of your receiver (amplifier).
- ➡ When you play the Dolby Digital sound tracks and attempt to output from the DIGITAL OUT connectors, set "DIGITAL OUT" to "ON" in the setup display. Otherwise no sound will come out from the DIGITAL OUT connectors (page 64).
- ➡ When you play the DTS sound tracks, no sound will come out from the LINE OUT, 5.1CH OUTPUT and PHONES connectors (page 65).

Sound noise is heard.

- Clean the disc.
- When you play the DTS sound tracks on a CD, sound noise will come out from the LINE OUT, 5.1CH OUTPUT and PHONES connectors (page 65).

Sound distortion occurs.

In the setup display, set "AUDIO ATT" in "AUDIO SETUP" to "ON" (page 63).

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

- Set "AUDIO" to "STEREO" in the Control Menu display (page 38).
- Make sure you connect the player appropriately (pages 8, 10, 12).

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

- Check the speaker connections and settings (pages 12, 65). Refer to the operating manual of your receiver (amplifier).
- Depending on the DVD, the output signal may not be the entire 5.1 channel but monaural or stereo even if the sound track is recorded in Dolby Digital format.

The sound comes from the center speaker only.

- Depending on the disc, the sound may come from the center speaker only.
- → Set "VIRTUAL 3D SURROUND" to "OFF," "VES A" or "VES B" in the Control Menu display (page 48).

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 B on the player.
- Replace all the batteries in the remote with new ones if they are weak.
- ➡ If you operate the player from the TV using the Slink connection, connect the S-link plug to the Slink connector of the TV (page 8).

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 selected disc is not included in the current folder.
- Repeat Play, Shuffle Play or Program Play has been selected. Press CLEAR (pages 42 to 45).
- → 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.

Playback stops automatically.

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

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

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

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

In the setup display, select the language for the onscreen display in "OSD" under "LANGUAGE SETUP" (page 58).

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

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

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

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

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

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

The angles cannot be changed when you play a DVD.

- Multi-angles are not recorded on the DVD.
- Change the angles when "ANGLE" appears on the front panel display (page 40).
- → Changing the angles is prohibited on the DVD.

The player does not operate properly.

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

Nothing is displayed on the front panel display.

- ➡ In the setup display, "DIMMER" in "CUSTOM SETUP" is set to "OFF."
 - Set "DIMMER" to "BRIGHT" or "DARK" (page 60).

The sound does not come from the CD changer connected using the CONTROL A1 cable

- Turn on the player.
- Press the MEGA CONTROL button on the front panel (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.

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

Self-diagnosis function was activated. See the table on page 74 and treat the player appropriately.

Self-diagnosis function

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

First three characters	Cause and/or Corrective Action		
C 13	 The disc is dirty. ➡Clean the disc with a cleaning cloth (page 6). 		
C 31	 The disc is not inserted correctly. ➡Open the disc tray and insert the disc correctly. 		
E xx (xx is any number)	 To prevent the player from malfunctioning, the self-diagnosis function has worked. → When you contact your Sony dealer or local authorized Sony service facility, give the 5-character service number. (example: E 61 10) 		

Specifications

CD/DVD player

Laser Semiconductor laser Signal format system NTSC

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 More than 115 dB (LINE OUT (AUDIO 1, 2) connectors only) Harmonic distortion Less than 0.0025% Dynamic range More than 100 dB (DVD)

More than 100 dB (DVD) More than 97 dB (CD)

Wow and flutter

Less than detected value (±0.001% W PEAK)

Outputs and inputs

	Jack	Output/Input	Load impedance		
	type	level			
LINE OUTPUT (AUDIO 1, 2)	Phono jacks	2 Vrms (at 50 kilohms)	Over 10 kilohms		
DIGITAL OUTPUT (OPTICAL)	Optical output connector	–18 dBm	Wave length: 660 ni		
DIGITAL OUTPUT (COAXIAL)	Phono jack	0.5 Vp-p	75 ohms terminated		
LINE OUTPUT (VIDEO 1, 2)	Phono jacks	1.0 Vp-p	75 ohms, sync negative		
S VIDEO OUTPUT (1, 2)	4-pin mini DIN	Y: 1.0 Vp-p C: 0.286 Vp-p	75 ohms, sync negative 75 ohms terminated		
COMPONENT VIDEO OUTPUT	Phono jacks	Y: 1.0 Vp-p	75 ohms, sync negative		
(Ү, Рв/В-Ү, Рг/R-Ү)		Рв/В-Ү, Рк/R-Ү: 0.7 Vp-p	75 ohms		
5.1CH OUTPUT			Over 10 kilohms		

	Jack type	Output/Input level	Load impedance		
S-LINK	Mini jack	_			
MEGA CONTROL	Mini jack	_	-		
AUDIO INPUT	Phono jack	2 Vrms	47 kilohms		

General

Power requirements (indicated on the rear panel) 120 V AC, 60 Hz Power consumption 18 W Dimensions (approx.) 430 \times 198 \times 503 mm (17 \times 7 7/8 \times 19 7/8 in.) (w/h/d) incl. projecting parts Mass (approx.) 10 kg (22 lb 1 oz) Operating temperature 41 °F to 95 °F (5 °C to 35 °C) Operating humidity 5% to 90%

Supplied accessories

See page 7.

* The signals from LINE OUTPUT (AUDIO 1, 2) connectors and 5.1 ch L, R connectors are measured. When you play the PCM sound tracks with 96 kHz sampling frequency, the output signals from the DIGITAL OUTPUT (OPTICAL, COAXIAL) are converted to 48 kHz (sampling frequency).

Design and specifications are subject to change without notice.

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Glossary

Bit rate (page 54)

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

Chapter (page 5)

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

Digital Cinema Sound (DCS) (page 48)

The general name of technology that Sony developed to enjoy the surround sound in a home. To enjoy the surround sound of a movie theater in the comfort of your own home, it simulates the sound not in a concert hall as usual but in a movie editing studio. This player adopts VES (Virtual Enhanced Surround) system from various DCS programs. The VES system can create the sound image of virtual rear speakers from the sound of the front speakers (L, R) without using actual rear speakers.

Dolby Digital (pages 12, 48)

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

Dolby Pro Logic (pages 48, 64)

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

DTS (pages 5, 11, 65)

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

DVD (page 4)

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

The data capacity of a single-layer and single-sided DVD, at 4.7 GB (Giga Byte), is 7 times that of a CD.

Furthermore, the data capacity of a dual-layer and singlesided DVD is 8.5 GB, a single-layer and double-sided DVD 9.4 GB, and a dual-layer and double-sided DVD 17 GB.

The picture data uses the MPEG 2 format, one of the worldwide standards of digital compression technology. The picture data is compressed to about 1/40 of its original size. The DVD also uses the variable rate coding technology that changes the data to be allocated according to the status of the picture.

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

Multi-angle function (page 40)

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

Multilingual function (pages 14, 40, 58)

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

Parental Control (page 60)

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

Playback Control (PBC) (page 22)

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

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

Title (page 5)

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

Track (page 5)

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

VIDEO CD (page 4)

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

There are 2 versions of VIDEO CDs.

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

This player conforms to both versions.

Language Code List

For details, see pages 40 and 58.

<u> </u>			The language spellings conform to the ISO 639: 1988 (E/F) sta					standard.
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	<u> </u>
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		
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	<u> </u>
1061	Bislama	1248	Indonesian	1403	(Afan) Oromo	1534	Setswana	
1066	Bengali; Bangla	1253	Icelandic	1408	Oriya	1535	Tonga	<u></u>
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	<u> </u>
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	<u></u>
130	Bhutani	1299	Cambodian	1489	Russian	1587	Volapük	
142	Greek	1300	Kannada	149 1	Kinyarwanda	1613	Wolof	·
144	English	1301	Korean	1495	Sanskrit	1632	Xhosa	
.145	Esperanto	1305	Kashmiri	1498	Sindhi	1665	Yoruba	
149	Spanish	1307	Kurdish	1501	Sangho	1684	Chinese	
150	Estonian	1311	Kirghiz	1502	Serbo-Croatian	1697	Zulu	
151	Basque		Latin	1503	Singhalese	1703	Not specified	
157	Persian	1326	Lingala	1505	Slovak	1703		
165	Finnish		Laothian	1506	Slovenian	<u> </u>		
166	Fiji	1332	Lithuanian	1507	Samoan			<u> </u>
171	Faroese	1334	Latvian; Lettish	1508	Shona			<u></u>
174	French		Malagasy	· · · · · · · · · · · · · · · · · · ·	Somali	- <u></u>		_ .
181	Frisian		Maori	1511	Albanian			
183	Irish	· · · · · · · · · · · · · · · · · · ·	Macedonian		Serbian			

ΤL

Index to Parts and Controls

Refer to the pages indicated in parentheses for details.

Front Panel



- ☑ (remote sensor) (7) Accepts the remote control signals.
- I/(¹) (POWER) button and indicator (15) Turns on and off the power of the player.
- **3** FOLDER buttons (26, 27) Selects a disc folder.
- 4
 FILE button (27)

 Enters the FILE mode on the

 Disc Explorer.
- **5** SORT button (31) Enters the SORT mode on the Disc Explorer.
- 6 Disc compartment (15) Insert discs in the disc slots.
- DOLBY DIGITAL indicator
 Lights up, for example, when:
 playing back Dolby Digital soundtrack on the DVD
 the disc is not inserted
- 8 PROGRAM button (43) Displays the "PROGRAM" display on the TV screen.
- 9 **REPEAT button (46)** Displays the "REPEAT" display on the TV screen.
- Image: The second se
- III ▷→PLAY button (18) Plays a disc.
- 12 ≙OPEN button (15)
 Opens the front cover.
- 13 **IIPAUSE button (18)** Pauses playing a disc.

- Image: Stops playing a disc.
- **15** EASY PLAY button/indicator (15, 18)

Press to play the disc in slot 1 or bring slot 1 to the loading position.

- 16 KEYBOARD jack (30) Connect a keyboard to label the discs.
- **EDIT button (28)** Enters the EDIT mode to label the disc on the Disc Explorer.
- 18 LOAD button (25) Reads the information of the discs loaded in sequence.
- 19 SHUFFLE button (45) Displays the "SHUFFLE" display on the TV screen.
- 20 TIME/TEXT button (23) Displays the playing time of the disc, etc., on the front panel display.
- 21 1/ALL DISCS button (17) Selects 1 DISC or ALL DISCS play mode.
- 22 CLEAR button (43, 44, 45, 47) Press to return to the continuous play, etc.
- 23 TITLE button (21) Displays the title menu on the TV screen.
- 24 DISPLAY button (32) Displays the Control Menu display on the TV screen to set or adjust the items.

- 25 DVD MENU button (21) Displays the DVD menu on the TV screen.
- 26 *** RETURN button (23, 26, 33)** Press to return to the previously selected screen, etc.
- 27 ←/↑/↓/→/ ENTER button Selects and executes the items or settings.
- 28 Click shuttle (19, 20) Changes the playback speed, or selects characters.
- **29 JOG button/indicator (19)** Press to play a disc frame by frame.
- 30 Idd / ► I PREV/NEXT DIRECT SEARCH/DISC CHANGE dial (15, 18)

When the DIRECT SEARCH indicator is lit, turn to go to the next chapter or track or to go back to the previous chapter or track.

When the DISC CHANGE indicator is lit, turn to rotate the disc slots.

- DIRECT SERACH indicator/DISC CHANGE indicator/Dial function select button (15, 18) Press to select the dial function. The indicator of the selected function lights up.
- 32 MEGA CONTROL button/ indicator (70) Press to control the connected CD changer.

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Rear Panel



1 AUDIO INPUT (L, R) connectors (69)

Connects to the audio output on a Sony CD changer of 5/50/ 200/300 discs.

- 5.1CH OUTPUT connectors (13)
 Connects to a receiver
 (amplifier) having 5.1 channel
 input connectors.
- 3 LINE OUTPUT (AUDIO 1, 2) connectors (8, 10) Connects to the audio input connector on the TV or receiver (amplifier).
- 4 LINE OUTPUT (VIDEO 1, 2) connectors (8) Connects to the video input connector on the TV or monitor.
- 5 S VIDEO OUTPUT (1, 2) connectors (8, 10) Connects to the S video input connector on the TV or monitor.
- 6 COMPONENT VIDEO OUTPUT connectors (9) Connects to a monitor or

projector having component video input connectors (Y, P_B/B -Y, P_R/R -Y) that conform to the output signals from the player.

DIGITAL OUTPUT (OPTICAL) connector (11)

Connects to an audio component using the optical digital connecting cord.

B DIGITAL OUTPUT (COAXIAL) connector (11) Connects to an audio component using the coaxial digital

connecting cord. 9 S-LINK connector (8)

Connects to the S-link connector on an external component.

MEGA CONTROL connector (69)

Connects to the control connector on a Sony CD changer of 5/50/200/300 discs.

Remote



TV/DISC EXPLORER/DVD switch (25, 27)

Selects to control the player, the disc explorer or the TV with the remote.

- 2 MEGA CONTROL button (70) Press to control the connected CD changer.
- 3 Number buttons/ENTER button Selects and executes the items or

settings.

- 4 CLEAR button (43, 44, 45, 47) Press to return to the continuous play, etc.
- 5 PROGRAM button (43) Displays the "PROGRAM" display on the TV screen.
- 6 SHUFFLE button (45) Displays the "SHUFFLE" display on the TV screen.
- AUDIO/FILE button (27, 38)
 Changes the sound while playing a disc (AUDIO).
 When 1 is set to DISC EXPLORER, enters the FILE mode (FILE).
- ANGLE/SORT button (31, 41)
 Changes the angles when playing a DVD (ANGLE).
 When 1 is set to DISC EXPLORER, enters the SORT mode (SORT).
- **9** TITLE button (21)Displays the title menu on the TV screen.
- DISPLAY button (32)
 Displays the Control Menu display on the TV screen to set or adjust the items.
- [1] ←/↑/↓/→/ ENTER button Selects and executes the items or settings.

12 Click shuttle (19, 29) Changes the playback speed, or selects characters

SET UP button (55) Displays the setup display on the TV screen to set or adjust the items. 14 I/ (POWER) button (15, 67) Turns on and off the power of the player.

When 1 is set to TV, turns on and off the power of the TV.

- **15 TV operation buttons (68)** Controls TVs.
- **16 REPEAT button (46)** Displays the "REPEAT" display on the TV screen.
- SUBTITLE/EDIT button (28, 40)
 Displays the SUBTITLE menu in the Control Menu display (SUBTITLE).
 When 1 is set to DISC
 EXPLORER, enters the EDIT mode to label the disc (EDIT).
- 18 1/ALL DISCS/LOAD button (17, 25) Selects 1 DISC or ALL DISCS play mode (1/ALL DISCS).

play mode (1/ALL DISCS). When 1 is set to DISC EXPLORER, reads the information of the discs loaded in sequence (LOAD).

- DVD MENU button (21)
 Displays the DVD menu on the TV screen.
- 20 *** RETURN button (23, 26, 33)** Press to return to the previously selected screen, etc.
- 21 JOG button/indicator (19) Press to play a disc frame by frame.

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Remote



22 TIME/TEXT button (23)

Displays the playing time of the disc, etc., on the front panel display.

- 23 FOLDER buttons (26) Displays the disc information such as the jacket picture and Disc Memo in the disc folder.
- **BOOKMARK button (53)** Press to set a bookmark.
- 25 PICTURE MEMORY button (59) Press to store a picture in memory.
- 26 I←</►>IPREV/NEXT buttons (18)

Press to go to the next chapter or track or to go back to the previous chapter or track.

- 27 PLAY button (18) Plays a disc.
- DISC SKIP +/- button (15, 18) When 1 is set to DISC EXPLORER or DVD, press to search the discs in the folder.
- 29 EASY PLAY button (15, 18) Press to play the disc in slot 1 or bring slot 1 to the loading position.
- 30 AV VOL (volume) buttons (69) Controls the volume of AV receivers (amplifiers).
- 31 **STOP button (18, 20)** Stops playing a disc.
- **32 IIPAUSE button (18)** Pauses playing a disc.

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