Welcome!

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

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-CX860
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.
**TABLE OF CONTENTS**

About This Manual 4
This Player Can Play the Following Discs 4
Precautions 6
Notes About the Discs 6

### Getting Started 7
Unpacking 7
TV Hookups 8
Receiver (Amplifier) Hookups 10
5.1 Channel Surround Hookups 12
Selecting the Language for the On-Screen Display 14
Operation Sound Effects (Sound Feedback) 15
Inserting Discs 16

### Playing Discs 19
Playing Discs 19
Playing Side B (FLIP) 21
Playing at Various Speeds/Frame by Frame 22
Resuming Playback from the Point Where You Stopped the Disc (Resume Play) 23
Using the DVD’s Menu 24
Playing VIDEO CDs with PBC Functions (PBC Playback) 25
Using the Front Panel Display 26
Displaying the Disc Information (Disc Explorer) 28
Filing Discs in the Folder (Disc Explorer - File Mode) 30
Labeling Discs and Folders (Disc Explorer - Edit Mode) 32
Sorting Discs (Disc Explorer - Sort Mode) 35

### Using Various Functions with the Control Menu 37
Using the Control Menu Display 37
Control Menu Item List 39
Searching for a Disc/Title/Chapter/Track/Index/Scene 40
Checking the Playing Time and Remaining Time 41
Selecting a Starting Point Using the Time Code 42
Viewing the Disc Information 43
Changing the Sound 43
Displaying the Subtitles 45
Changing the Angles 46
Digital Cinema Sound Settings 47
Checking the Play Information 48
Locking Discs (Custom Parental Control) 49
Selecting the Disc Mode (1 Disc or All Discs) 51
Creating Your Own Program (Program Play) 52
Playing in Random Order (Shuffle Play) 54
Playing Repeatedly (Repeat Play) 55
Repeating a Specific Portion (A–B Repeat) 56
Using the Quick Reference Screen (VIEWER) 57

### Settings and Adjustments 60
Using the Setup Display 60
Setup Display Item List 62
Setting the Display Language or Sound Track (LANGUAGE SETUP) 63
Settings for the Display (SCREEN SETUP) 64
Custom Settings (CUSTOM SETUP) 65
Settings for the Sound (AUDIO SETUP) 70
Controlling Your TV or AV Receiver (Amplifier) with the Supplied Remote 72
Controlling the CD Changer (Mega Control) 74

### Additional Information 76
Troubleshooting 76
Self-diagnosis function 79
Specifications 79
Glossary 80
Language Code List 82
Index to Parts and Controls 83
Index 87
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:

<table>
<thead>
<tr>
<th>Icon</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Remote Control Icon" /></td>
<td>Indicates that you can use only the remote to do the task.</td>
</tr>
<tr>
<td><img src="image" alt="Light Bulb Icon" /></td>
<td>Indicates tips and hints for making the task easier.</td>
</tr>
<tr>
<td><img src="image" alt="DVD Icon" /></td>
<td>Indicates that the function is for DVD VIDEOS.</td>
</tr>
<tr>
<td><img src="image" alt="VIDEO CD Icon" /></td>
<td>Indicates that the function is for VIDEO CDs.</td>
</tr>
<tr>
<td><img src="image" alt="CD Icon" /></td>
<td>Indicates that the function is for Audio CDs.</td>
</tr>
</tbody>
</table>

This Player Can Play the Following Discs

<table>
<thead>
<tr>
<th>Disc logo</th>
<th>DVD VIDEOS</th>
<th>VIDEO CDs</th>
<th>Audio CDs</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="DVD VIDEO Logo" /></td>
<td><img src="image" alt="COMPACT DISC DIGITAL VIDEO Logo" /></td>
<td><img src="image" alt="COMPACT DISC DIGITAL AUDIO Logo" /></td>
<td></td>
</tr>
<tr>
<td>Contents</td>
<td>Audio + Video</td>
<td>Audio + Video</td>
<td>Audio</td>
</tr>
<tr>
<td>Disc size</td>
<td>12 cm</td>
<td>8 cm</td>
<td>12 cm</td>
</tr>
<tr>
<td>Play time</td>
<td>About 4 h (for single-sided DVD)/ about 8 h (for double-sided DVD)</td>
<td>About 80 min. (for single-sided DVD)/ about 160 min. (for double-sided DVD)</td>
<td>74 min.</td>
</tr>
</tbody>
</table>

The “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 ![Region Code Icon](image) will also play on this unit.

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

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

Note on playback operations of DVDs and VIDEO CDs

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

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

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

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

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

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

Note on PBC (Playback Control) (VIDEO CDs)
This player conforms to Ver. 1.1 and Ver. 2.0 of VIDEO CD standards. You can enjoy two kinds of playback according to the disc type.

<table>
<thead>
<tr>
<th>Disc type</th>
<th>You can</th>
</tr>
</thead>
<tbody>
<tr>
<td>VIDEO CDs without PBC functions (Ver. 1.1 discs)</td>
<td>Enjoy video playback (moving pictures) as well as music.</td>
</tr>
<tr>
<td>VIDEO CDs with PBC functions (Ver. 2.0 discs)</td>
<td>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.</td>
</tr>
</tbody>
</table>

Discs that the player cannot play
The player cannot play discs other than the ones listed in the table on page 4. CD-Rs, CD-ROMs including PHOTO CDs, data sections in CD-EXTRA, DVD-ROMs, DVD-audio, HD (high density) layer of Super Audio CD 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 Surround™ playback, an external 5.1-channel DTS Digital Surround™ decoder system must be connected to the digital output of the DVD player.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents 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,” “DTS Digital Surround” and “DTS Digital Out” are trademarks of Digital Theater Systems, Inc.
Precautions

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

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

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

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

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

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

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

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

Notes About the Discs

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

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

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

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

On novelty discs
• Do not use irregularly shaped CDs such as heart- or star-shaped CDs as they may cause the player to malfunction.
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 (control S) connecting cord (1)
• S video cord (1)
• Remote commander (remote) RMT-D123A (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 – ends on the batteries to the markings inside the compartment. When using the remote, point it at the remote sensor on the player.

Notes

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

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.
   Failure to remove the discs may cause damage to the player.

2. Press OPEN/CLOSE to close the front cover.
   Make sure that “NO DISC” appears on the front panel display.

3. Wait for 10 seconds, then press I/ on the remote, followed by on the player.
   This will safely turn off the player.
**TV Hookups**

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

💡 You can enjoy surround sound using your TV's built-in speakers
You can use 3D sound imaging to create virtual rear speakers from the sound of built-in TV speakers without using actual rear speakers (VES TV: Virtual Enhanced Surround TV). For details, see page 47.

### Required cords

- **Audio/video/S-link connecting cord (supplied) (1)**
  - Yellow
  - White (L)
  - Red (R)
  - S-LINK (CONTROL S)

- **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 (CONTROL S) connector, you can control the CD/DVD player from the TV. Connect the TV via the S-LINK/CONTROL S IN connector.
- If your TV has an S video input connector, connect the component via the S VIDEO OUTPUT connector using the supplied S video cord. You will get a better picture.
  Refer to the instructions supplied with the TV to be connected.

---

![Signal flow diagram](image_url)
If you connect the player to a monitor or projector having component video input connectors that conform to output signals from the COMPONENT VIDEO OUT (Y, Pb, Pr) connectors on the player

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

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

• 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 70.

If your TV has an S-link (control S) connector
You can control the player from the TV. Connect the TV via the S-LINK/CONTROL S IN connector using the S-link (control S) cord (supplied). Refer to the instructions supplied with the TV to be connected.

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

Setups for the player
Some setup adjustments 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 60.

• 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 64.

• 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 64.

• 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 64.
Receiver (Amplifier) Hookups

This connection is for listening to the sound through speakers connected to a receiver lacking a built-in DTS or Dolby* Digital decoder. Refer as well to the instructions supplied with the component to be connected.

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

Required cords

Audio connecting cord (not supplied) (1)
- White (L)
- Red (R)

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).

Optical digital connecting cord (not supplied) (1)

Coaxial digital connecting cord (not supplied) (1)

Required cords

Audio connecting cord (not supplied) (1)
- White (L)
- Red (R)

S video cord (supplied) (1)

Do not connect the power cord to a switched AC outlet such as the AC outlet on a receiver (amplifier). Doing so may cause the Playback Memory, Bookmark, Disc Explorer and menu settings to be cancelled when you turn off the receiver.

CD/DVD player

To AUDIO OUT (R, L)  
To S VIDEO OUTPUT 
To DIGITAL OUT (OPTICAL) 
Take off the cap.  
To DIGITAL OUT (COAXIAL) 
To optical digital input  
To coaxial digital input  
To audio input  
Receiver (Amplifier) with a digital connector, MD deck, DAT deck, etc.  
Receiver (Amplifier) 
TV  
To S VIDEO input

: Signal flow
You can enjoy surround sounds even if you connect 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 47.

If you have a digital component with a built-in DTS or Dolby Digital decoder
You can enjoy multichannel surround sound by connecting the component via the DIGITAL OUT OPTICAL or COAXIAL connector using an optical or coaxial digital connecting cord (not supplied). For details on hookups and settings, see page 12.

Notes
• You cannot enjoy a picture with an S video signal if your TV does not conform to the S video signal. When your TV does not have an S VIDEO input, connect the component via the VIDEO INPUT connector using the audio/video connecting cord (supplied) instead of the S video cord. For details, see page 8.
  Refer to the instructions supplied with your TV.
• You cannot make digital audio recordings of discs recorded in multichannel surround format directly using an MD deck or DAT deck.
• When you connect the component via the DIGITAL OUT OPTICAL or COAXIAL connector, set Virtual Enhanced Surround (VES) to “OFF.” Otherwise, the player will not output signals from the DIGITAL OUT OPTICAL or COAXIAL connector, if you set “DOLBY DIGITAL” in “AUDIO SETUP” to “D-PCM.”

When you have made the connections using an optical or coaxial digital connecting cord, 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.

Setups for the player
Some setup adjustments 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 60.

• To listen to the sound through speakers connected to a receiver (amplifier) which has a digital connector and lacks a built-in DTS or Dolby Digital decoder, or to output the sound to a digital component such as a DAT or MD deck
Set the “AUDIO SETUP” items in the setup display (page 70) as shown in the illustration below. These are the default settings.

Note
When you output the signals which do not reproduce the Dolby Surround (Pro Logic) effect from the DIGITAL OUT OPTICAL or COAXIAL connector, set “DOWNMIX” to “NORMAL” in “AUDIO SETUP” in the setup display (page 70).
5.1 Channel Surround Hookups

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

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

### Required cords

- **Optical digital connecting cord** (not supplied) (1)
- **Coaxial digital connecting cord** (not supplied) (1)
- **S video cord** (supplied) (1)

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

### Notes

- Do not connect the power cord to an AC outlet or press the POWER switch before completing all connections.
- Refer to the instructions supplied with the component to be connected.
- The cord connectors should be fully inserted into the jacks. A loose connection may cause hum and noise.

**Do not connect the power cord to a switched AC outlet such as the AC outlet on a receiver (amplifier). Doing so may cause the Playback Memory, Bookmark, Disc Explorer and menu settings to be cancelled when you turn off the receiver.**

### Setups for the player

Some setup adjustments 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 60.

1. **When you connect an audio component with a built-in Dolby Digital decoder**
   - Set “DIGITAL OUT” in “AUDIO SETUP” to “ON” and then set “DOLBY DIGITAL” to “DOLBY DIGITAL” in the setup display. (page 70)

2. **When you connect an audio component with a built-in DTS decoder**
   - Set “DIGITAL OUT” in “AUDIO SETUP” to “ON” and then set “DTS” to “ON” in the setup display. (page 70)

### Notes

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

1 When the player is in stop mode, press DISPLAY and select “SETUP” using ↑/↓.

The on-screen menu items are different depending on whether there is a disc in the player or not.

2 Press ENTER.

The setup display appears on the TV screen.

3 Select “LANGUAGE SETUP” using ↑/↓, and then press ENTER.

4 Select “OSD” using ↑/↓, then press ← or ENTER.

The languages you can select are displayed.

5 Select the desired language using ↑/↓, then press ENTER.

6 Press DISPLAY.

The setup display disappears.

7 Press DISPLAY repeatedly to turn off the on-screen menu.
Operation Sound Effects (Sound Feedback)

The player beeps when the following operations are performed.
The default setting of the Sound Feedback function is set to off.

<table>
<thead>
<tr>
<th>Operation</th>
<th>Operation sound</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power is turned on</td>
<td>One beep</td>
</tr>
<tr>
<td>Power is turned off</td>
<td>Two beeps</td>
</tr>
<tr>
<td>▶ is pressed</td>
<td>One beep</td>
</tr>
<tr>
<td>ii is pressed</td>
<td>Two beeps</td>
</tr>
<tr>
<td>Playback is stopped</td>
<td>One long beep</td>
</tr>
<tr>
<td>Operation is not possible</td>
<td>Three beeps</td>
</tr>
</tbody>
</table>

1. Press ① on the player, then press Ⅴ/ī on the remote.
   The power indicator lights up in green.

2. Press OPEN/CLOSE to open the front cover.

3. Press and hold ii on the player for more than three seconds.
   You will hear one beep and the Sound Feedback function is turned on.

To turn off the Sound Feedback Function
When the front cover is open, press and hold ii on the player for more than three seconds. You will hear two beeps and the Sound Feedback function is turned off.
Inserting Discs

Getting Started

You can insert up to 301 discs into the disc slots (including the EASY PLAY slot) in this player.

1 Press to turn on the player.

2 Press OPEN/CLOSE.
   The front cover opens.

3 Press DISC CHANGE to turn the indicator on.

4 Turn the –/+/ dial until you find the disc slot where you want to insert a disc, while checking the disc slot number indicated on the front panel display or by the slot.

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.
   • Gently place the disc all the way into the slot and do not release the disc until it is completely seated.

6 Repeat Steps 4 and 5 to insert more discs.

7 Close the front cover by pressing OPEN/CLOSE.

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

Notes
- 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 a disc slot number by skipping by 10 slots

When you insert an 8 cm (3-inch) CD, be sure to attach a Sony CD-single adaptor (not supplied) to the disc and only use the EASY PLAY slot.

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

Do not attach anything such as stickers or sleeves to discs. It may damage the player or the disc.

Do not turn the turntable by hand.

Do not reach inside of the turntable compartment. Always follow the correct steps for inserting and removing discs.

When transporting the player, remove all discs from the player. Failure to remove the discs may cause damage to the player.
• When closing the front cover, be careful not to let anything get caught between the door and the player.
• Do not insert anything other than a DVD, Audio CD or Video CD into the player.

**Using the EASY PLAY slot**

The EASY PLAY slot can be used separately from other slots for the purpose of inserting a disc you want to play immediately.
The EASY PLAY disc is numbered 301. When you use the Program Play or Disc Explorer function, or Search for a disc by slot number, enter the disc in the EASY PLAY slot as disc number 301.

**To insert a disc to the EASY PLAY slot**

1. Press EASY PLAY.
2. Insert the disc.
3. Press EASY PLAY again.

**To remove the disc from the EASY PLAY slot**

1. Press OPEN/CLOSE to open the front cover.
2. Press EASY PLAY.
3. Press EJECT on the player.
4. Remove the disc.

**If you press EASY PLAY when there is a disc in the EASY PLAY slot**

The player loads the disc information and starts playback of the disc.

“EZ” appears in the front panel display when the EASY PLAY slot is being used.
If you replace a disc in Step 6
The loading guide automatically goes down after few seconds. If you want to place another disc in the same slot, wait until the loading guide goes down before inserting the disc.

Note
The loading guide automatically goes down when you make another operation.
Playing Discs

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

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

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

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

2. **Press ① to place the player in standby mode.**
   - The player enters standby mode and the power indicator lights up in red.

3. **Press Ⅰ/② on the remote to turn on the player.**
   - The power indicator lights up in green.

4. **Press ▶.**
   - The player starts playback. Adjust the volume on the TV or the receiver (amplifier).

**To change the disc**

Press DISC CHANGE to turn the indicator on. Then turn the ◀/▶+ dial until the desired disc number appears on the front panel display.

Press the ◀/▶+ dial to start playback.
Playing Discs

After following Step 4

■ When playing a DVD
A DVD menu or title menu may appear on the TV screen (see page 24).

■ When playing a VIDEO CD
Depending on the VIDEO CD, a menu may appear on the TV screen. You can play the disc interactively by following the instructions on the menu. (PBC Playback, see page 25.)

To turn on the player
Press ① on the player. The player enters standby mode and the power indicator lights up in red.
Then press 1/① on the remote. The player turns on and the power indicator lights up in green. In standby mode, the player also turns on by pressing ▼/■.

To turn off the player
Press 1/① on the remote. The player enters standby mode and the power indicator lights up in red.
To disconnect the power of the player, press ① on the player.

Notes on playing DTS sound tracks on a CD
• Do not play DTS sound tracks without first connecting the player to an audio component having a built-in DTS decoder.
The player outputs the DTS signal via the DIGITAL OUT OPTICAL and COAXIAL connectors even if “DTS” in “AUDIO SETUP” is set to “OFF” in the setup display, and may affect your ears or cause your speakers to be damaged.
• Set the sound to “STEREO” when you play DTS sound tracks on a CD. (See “Changing the Sound” on page 43.) If you set the sound to “1/L” or “2/R,” no sound will come from the DIGITAL OUT OPTICAL and COAXIAL connectors.
• If you play a CD with a DTS sound track, a loud noise may come out from the AUDIO OUT connectors, affecting your ears or causing the speakers to be damaged.

Notes on playing DTS sound tracks on a DVD
• The signals of the DTS sound tracks are output from the DIGITAL OUT OPTICAL and COAXIAL connectors only. No sound will be output from the AUDIO OUT 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.

Notes
• If you leave the player or the remote in pause or stop mode for 15 minutes, the screen saver image appears automatically. It will also appear if you play back a CD for more than 15 minutes. To make the screen saver image go away, press ▼/■. (If you want to set the screen saver function to off, see page 64.)
• While playing a disc, do not turn off the player by pressing ①. Doing so may cancel the settings of the menu. When you turn off the player, press ■ first to stop playback and then press 1/① on the remote. After the power indicator lights up in red and the player enters standby mode, press ① on the player.

Additional operations
Playing Discs

To Select a disc
- Press DISC CHANGE to turn the indicator on. Then turn the \( \text{\textleftarrow-}/\text{\textrightarrow+} \) dial until the desired disc number appears on the front panel display.
- Press the \( \text{\textleftarrow-}/\text{\textrightarrow+} \) dial to start playback.

Skip empty disc slots while selecting a disc
- Press DISC SKIP +/- on the remote.

Stop
- Press \( \square \).

Pause
- Press \( \square \)

Resume play after pause
- Press \( \square \) or \( \text{\textrightarrow} \)

Go to the next chapter, track or scene in continuous play mode
- On the player:
  - Press DIRECT SEARCH to turn it on and turn the \( \text{\textleftarrow-}/\text{\textrightarrow+} \) dial clockwise.
- On the remote:
  - Press \( \text{\textrightarrow} \)

Go back to the preceding chapter, track or scene in continuous play mode
- On the player:
  - Press DIRECT SEARCH to turn it on and turn the \( \text{\textleftarrow-}/\text{\textrightarrow+} \) dial counterclockwise.
- On the remote:
  - Press \( \text{\textleftarrow} \)

Stop play and remove the disc
- On the player:
  - Press OPEN/CLOSE, followed by \( \triangle \) EJECT.
- On the remote:
  - Press \( \text{\textleftarrow} \), followed by \( \triangle \) EJECT on the player.

You can play discs in various modes such as Program Play using the on-screen menu (Control Menu). For Control Menu operations, see page 37.

---

Playing Side B (FLIP)  DVD

You can play side B without ejecting the disc to turn it over.
“Side B” is the side facing right when you insert the disc into the slot.

While playing a disc, press FLIP. While side B is being played, \( \text{FLIP} \) appears on the TV.

To return to side A
Press FLIP again.

Notes
- Playback does not continue from side A to side B.
- Side B contents are not played even if you select the ALL DISCS mode.
- Program Play, Repeat Play, Bookmark, Disc Explorer, Custom Parental Control or Shuffle Play cannot be set with side B contents.
- Playback Memory settings are not effective for side B.
- When you flip the disc, Program Play, Repeat Play, and Shuffle Play settings for side A are cancelled.
Playing at Various Speeds/Frame by Frame

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.

During playback
- **FF2** Fast forward (about 30 times the normal speed)
- **FF1** Fast forward (about 10 times the normal speed)
- **×2** (about twice the normal speed)
- **PLAY** (normal speed)
- **×2** (about twice the normal speed)
- **FR1** Fast rewind (about 10 times the normal speed)
- **FR2** Fast rewind (about 30 times the normal speed)

If you turn the click shuttle quickly, the playback speed goes to **FF2** or **FR2** at once.

During pause
- **SLOW1** Slow (playback direction)
- **SLOW2** Slow (playback direction – slower than “SLOW1”)
- **PAUSE** Pause
- **SLOW2** Slow (opposite direction – slower than “SLOW1”)
- **SLOW1** Slow (opposite direction)

When you play back a CD/VIDEO CD

During playback
- **FF2** Fast forward (faster than “FF1”)
- **FF1** Fast forward
- **×2** (about twice the normal speed)*
- **PLAY** (normal speed)
- **FR1** Fast rewind
- **FR2** Fast rewind (faster than “FR1”)

* CD Only

If you turn the click shuttle quickly, the playback speed goes to **FF2** or **FR2** at once.

During pause (VIDEO CD only)
- **SLOW1** Slow (playback direction)
- **SLOW2** Slow (playback direction – slower than “SLOW1”)
- **PAUSE** Pause

To return to continuous play
Press ▶.

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 (Jog mode) DVD VIDEO CD

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, playback goes to frame-by-frame playback in the direction that the click shuttle is turned. If you turn the click shuttle at a 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 player, it stays in jog mode.

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

The player remembers the point where you stopped the disc, and when “RESUME” appears on the front panel display, you can resume playback from that point. Resume Play will work even if the player enters standby mode by pressing I/○ on the remote.

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

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

To play from the beginning of the disc
When the playing time appears on the front panel display before you start playing, press ■ to reset the playing time, then press ▶.
Resuming Playback from the Point Where You Stopped the Disc (Resume Play)

Notes
- Resume Play may not be available on some DVDs.
- Resume Play is not available in Shuffle or Program Play mode.
- Depending on where you stopped the disc, the player may resume playback from a different point.
- The point where you stopped playing is cleared when:
  - you open the front cover
  - you turn the power off by pressing ① on the player
  - you change the play mode
  - you start playback after selecting a disc, title, chapter or track
  - you change the settings in the setup display
  - you load disc information by pressing LOAD
  - you press MEGA CONTROL (MEGA on the remote)
  - you use the DISC EXPLORER function

Using the DVD’s Menu (DVD)

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

Using the title menu

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

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

2 Press ←/↑/↓/→ to select the title you want to play.
   Depending on the disc, you can use the number buttons to select the title.

3 Press ENTER.
   The player starts playing the selected title.

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

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

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

2. Press < or > to select the item you want to change.
   Depending on the disc, you can use the number buttons to select the item.

3. To change other items, repeat Step 2.

4. Press ENTER.

If you want to select the language for the DVD menu
Change the setting using “DVD MENU” in “LANGUAGE SETUP” in the setup display. For details, see page 63.

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

Playing VIDEOS CDs with PBC Functions (PBC Playback)

When playing VIDEOS CDs with PBC (Play Back Control) functions (Ver. 2.0 discs), you can enjoy simple interactive operations, search functions, and other such operations. PBC Playback allows you to play VIDEOS CDs interactively by following the menu on the TV screen.

On this player, you can use the number buttons, ENTER, < or >, and RETURN during PBC Playback. When you use the < or > dial on the player, press DIRECT SEARCH to turn it on.

1. Start playing a VIDEOS CD with PBC functions by following Steps 1 to 4 in “Playing Discs” on page 19.

2. Select the item number you want.
   Press ↑ or ↓ to select the item number.
   You can also select the item number with the number buttons on the remote.

3. Press ENTER.
Playing VIDEO CDs with PBC Functions (PBC Playback)

4 Follow the instructions in the menu for interactive operations.
Refer to the instructions supplied with the disc, as the operating procedure may differ according to the VIDEO CD.

To go back to the menu
Press RETURN, <<, or >>.

To cancel PBC playback of a VIDEO CD with PBC functions and play the disc in continuous play mode
There are two ways.
• Before you start playing, select the track you want using << or >>, then press ENTER or >>.
• Before you start playing, select the track number using the number buttons on the remote, then press ENTER or >>.

“Play without PBC” appears on the TV screen and the player starts continuous play. You cannot play still pictures such as a menu.
To return to PBC playback, press ■ twice then press >>.

Note
Depending on the VIDEO CD, “Press ENTER” in Step 3 may be expressed as “Press SELECT” in the instructions supplied with the disc. In this case, press >>.

Using the Front Panel Display DVD  VIDEO  CD

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

To change the brightness of the front panel display
Press DIMMER on the player. Each time you press the button, the front panel display and indicators on the player become dark, off, or bright in sequence. The power indicator is not turned off by pressing DIMMER however. You can change the brightness also using the setup display (page 65).

When playing back a DVD

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

Playing time and number of the current chapter

<table>
<thead>
<tr>
<th>Disc</th>
<th>Title</th>
<th>Chapter</th>
<th>Hour</th>
<th>Min</th>
<th>Sec</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVD</td>
<td>1</td>
<td>2</td>
<td>0:22:30</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remaining time of the current chapter

<table>
<thead>
<tr>
<th>Disc</th>
<th>Title</th>
<th>Chapter</th>
<th>Hour</th>
<th>Min</th>
<th>Sec</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVD</td>
<td>1</td>
<td>2</td>
<td>0:13:20</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Playing time and number of the current title

<table>
<thead>
<tr>
<th>Disc</th>
<th>Title</th>
<th>Hour</th>
<th>Min</th>
<th>Sec</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVD</td>
<td>1</td>
<td>1:03:24</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remaining time of the current title

<table>
<thead>
<tr>
<th>Disc</th>
<th>Title</th>
<th>Hour</th>
<th>Min</th>
<th>Sec</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVD</td>
<td>1</td>
<td>1:15:36</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Text or Disc Memo

<table>
<thead>
<tr>
<th>Disc</th>
<th>Title</th>
<th>Text or Disc Memo</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVD</td>
<td>1</td>
<td>SONY HITS/SON</td>
</tr>
</tbody>
</table>

Press TIME/TEXT.

Displaying information while playing a disc

- **Disc type**
- **All discs play mode**
- **Current play mode**
- **Current disc number**
- **Current track number**
- **Current index number**
- **Playing time**
- **Playing status**
- **Lights up when Text or Disc Memo is recorded**
- **Lights up during PBC playback (VIDEO CD only)**
- **Lights up while searching next disc**
- **Lights up while searching next disc**

Notes
- On some DVDs, the chapter number or time may not appear or you may not be able to change the front panel display.
- While you are doing Shuffle Play or Program Play, the playing time of the title and the remaining time of the title are not displayed.
Using the Front Panel Display

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.

<table>
<thead>
<tr>
<th>Press TIME/TEXT</th>
<th>Press TIME/TEXT</th>
<th>Press TIME/TEXT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Playing time and current track number</td>
<td>Playing time and current track number</td>
<td>Playing time and current track number</td>
</tr>
<tr>
<td>CD  TEXT  ALL DISCS</td>
<td>CD  TEXT  ALL DISCS</td>
<td>CD  TEXT  ALL DISCS</td>
</tr>
<tr>
<td>1 2  02:25</td>
<td>3</td>
<td>1 2  01:50</td>
</tr>
<tr>
<td>Remaining time of the current track</td>
<td>Remaining time of the current track</td>
<td>Remaining time of the current track</td>
</tr>
<tr>
<td>CD  TEXT  ALL DISCS</td>
<td>CD  TEXT  ALL DISCS</td>
<td>CD  TEXT  ALL DISCS</td>
</tr>
<tr>
<td>1 2  32:12</td>
<td>3</td>
<td>1 2  -20:18</td>
</tr>
<tr>
<td>Playing time of the disc</td>
<td>Playing time of the disc</td>
<td>Playing time of the disc</td>
</tr>
<tr>
<td>CD  TEXT  ALL DISCS</td>
<td>CD  TEXT  ALL DISCS</td>
<td>CD  TEXT  ALL DISCS</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Remaining time of the disc</td>
<td>Remaining time of the disc</td>
<td>Remaining time of the disc</td>
</tr>
<tr>
<td>CD  TEXT  ALL DISCS</td>
<td>CD  TEXT  ALL DISCS</td>
<td>CD  TEXT  ALL DISCS</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Text or Disc Memo</td>
<td>Text or Disc Memo</td>
<td>Text or Disc Memo</td>
</tr>
<tr>
<td>CD  TEXT  ALL DISCS</td>
<td>CD  TEXT  ALL DISCS</td>
<td>CD  TEXT  ALL DISCS</td>
</tr>
<tr>
<td>SONY HITS/SON</td>
<td>SONY HITS/SON</td>
<td>SONY HITS/SON</td>
</tr>
</tbody>
</table>

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

Displaying the Disc Information (Disc Explorer)

You can check the contents of each disc loaded into the player.

Loading the disc information

1. Set the TV/DISC EXPLORER/DVD switch to DISC EXPLORER.
2. Press LOAD when the player is in stop or standby mode.

On the player:
Press LOAD when the player is in stop or standby mode.

On the remote:

1. Set the TV/DISC EXPLORER/DVD switch to DISC EXPLORER.
2. Press LOAD when the player is in stop or standby 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 .

💡 The player can load the disc information even when the power is in standby mode
Press LOAD before turning on the player. The player reads and loads all the disc information. After loading is complete, the player returns to the standby mode.
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 30).

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 32).

Genre
You can select the genre of the disc yourself (page 34).

Disc type
The disc type appears automatically. “?” appears when the player has not loaded the disc information in the memory. If the selected slot does not contain a disc, the text information row is blank.

Selecting 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 DISC CHANGE to turn the indicator on, followed by turning the ↓/↓+ dial and then pressing it
   • pressing DISC SKIP +/– on the remote

3. Press ENTER.
   The Disc Explorer disappears and playback starts.

To cancel using the Disc Explorer
Press □RETURN.
Playing Discs

Displaying the Disc Information (Disc Explorer)

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 loaded disc.
• If you load or try to play an empty slot, it appears as a blank in the Disc Explorer. You cannot select this.
• Even if the disc has a jacket picture recorded on it, the jacket picture may not appear on the Disc Explorer.
• Do not turn off the player by pressing 0. Doing so may cancel the settings. When you turn off the player, press 1/1 on the remote. After the power indicator lights up in red and the player enters standby mode, press 0 on the player.

Filing Discs in the Folder (Disc Explorer - File Mode)

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 301 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.

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

For example, to file DVDs in the no. 1 and no. 3 slots to Folder A

1 Press FOLDER ALL.
The Disc Explorer of Folder ALL appears.
You can also press FOLDER DVD to select a DVD.

2 Press FILE to enter the file mode.
“FILE” appears at the right bottom corner.
3 Select the disc using the number buttons, then press ENTER.
You can also use †/ ‡, DISC SKIP +/– on the remote.
Or, you can press the DISC CHANGE button followed
by turning and pressing the † ‡+/– dial.

4 Press ENTER.
To file more than one disc repeat Steps 3 and 4.

5 Press FOLDER A.
“FILE” disappears from the Disc Explorer. Then the
Disc Explorer for Folder A containing the selected
discs appears.

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 35).

Note
Do not turn off the player by pressing 0. Doing so may cancel
the settings. When you turn off the player, press ■ first to stop
playback and then press I/0 on the remote. After the power
indicator lights up in red and the player enters standby mode,
press 0 on the player.

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 to enter the file mode.
“FILE” appears at the right bottom corner.

3 Select the disc using the number buttons, then
press ENTER.
You can also use †/ ‡, DISC SKIP +/– on the remote.
Or, you can press the DISC CHANGE button followed
by turning and pressing the † ‡+/– dial.

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.

To cancel the file mode
Press ◄RETURN. “FILE” disappears from the Disc
Explorer.
Labeling Discs and Folders (Disc Explorer - Edit Mode)

You can label the disc with a personal title of 16 characters (Disc Memo) when DVD TEXT or CD TEXT is not recorded on the disc, and the folders A through D with a title of 3 characters.

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

You can also assign a genre label to the disc. This will help you keep your discs organized.

To label a folder:
1. Press EDIT to enter the edit mode.
2. Press 🔄.
   The folder A is highlighted.

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

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 a 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.

To cancel the edit mode
Press RETURN. “EDIT” disappears from the Disc Explorer.

To correct the characters
You can correct the characters using the  

- dial on the player or  

- on the remote. To use the  

- dial, press DIRECT SEARCH to turn it on.

• To erase the characters:
  1. Move the cursor to the character you want to erase by pressing  
     or by turning the  
     dial.
  2. Press CLEAR.

• To insert or overwrite the characters:
  1. Move the cursor to the character you want to correct by pressing  
     or  
     .
  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 by turning the  
     dial clockwise.

Notes
• Do not turn off the player by pressing . Doing so may cancel the settings. When you turn off the player, press first to stop playback and then press I/ on the remote. After the power indicator lights up in red and the player enters standby mode, press I/ on the player.
• You can label up to 301 discs. When you have the player store a new disc in memory, the data for the old disc is erased.
• 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.
Labeling Discs (Disc Memo) and Folders

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.

1. Connect a keyboard to the KEYBOARD jack on the front panel when the power of the player is not on.

2. Turn on the player.

3. Do Steps 1 and 2 of “Labeling a disc or folder” to display the DISC MEMO INPUT or FOLDER NAME INPUT display.

4. Input the characters on the keyboard.

5. 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.

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.

Selecting a genre

You can assign a genre to your disc.

1. Select the disc on the Disc Explorer using ↑/↓.

2. Press EDIT to enter the edit mode.

   The selected disc’s text only is highlighted and “EDIT” appears at the right bottom corner.

3. Press →, then ENTER.

   The GENRE SELECTION display appears.
4 Select the genre using ←/↑/↓/→, then press ENTER.
The genre for the selected disc is stored in memory. If no jacket picture is recorded in the disc, the genre picture in the memory of the player is displayed.

5 Press □ RETURN to return to the original Disc Explorer display.

To cancel the edit mode
Press □ RETURN. “EDIT” disappears from the Disc Explorer.

Sorting Discs (Disc Explorer - Sort Mode)

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 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 ↑/↓.

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

FOLDER buttons

Sort

ENTER

←/↑/↓/→
Sorting Discs (Disc Explorer - Sort Mode)

3 **Press SORT to enter the sort mode.**
   The selected disc only is highlighted and “SORT” appears at the right bottom corner.

   ![Sorting Discs Diagram]

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 Diagram]

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

   ![Sorted Discs Diagram]

**Note**
Do not turn off the player by pressing ◆. Doing so may cancel the settings. When you turn off the player, press ■ first to stop playback and then press I/© on the remote. After the power indicator lights up in red and the player enters standby mode, press ◆ on the player.

**To cancel the sort mode**
Press ◄RETURN. “SORT” disappears from the Disc Explorer.

**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 on-screen menu (Control Menu).

Using the Control Menu Display DVD  VIDEO  CD

Using the Control Menu display, you can select the starting point, play scenes in any order you like, change the viewing angles, make Digital Cinema Sound settings, and other such operations. The possible operations are different depending on the kind of disc. For details on each Control Menu display item, see pages 39 to 59.

1. Select the desired folder.

2. Press DISPLAY to show the Control Menu display on the TV screen.
Using the Control Menu Display

3 Select the item you want using ↑/↓.

```
<table>
<thead>
<tr>
<th>Items</th>
<th>Selected item</th>
</tr>
</thead>
<tbody>
<tr>
<td>123 (ALL)</td>
<td></td>
</tr>
<tr>
<td>PLAY DVD</td>
<td></td>
</tr>
<tr>
<td>18 (34)</td>
<td></td>
</tr>
<tr>
<td>C 01:32:55</td>
<td></td>
</tr>
<tr>
<td>1: ENGLISH</td>
<td>SUBTITLE</td>
</tr>
<tr>
<td>OFF</td>
<td>ENTER</td>
</tr>
<tr>
<td>1: ENGLISH</td>
<td></td>
</tr>
<tr>
<td>2: FRENCH</td>
<td></td>
</tr>
<tr>
<td>3: SPANISH</td>
<td></td>
</tr>
</tbody>
</table>
```

4 Press ENTER.

```
<table>
<thead>
<tr>
<th>Items</th>
<th>Selected item</th>
</tr>
</thead>
<tbody>
<tr>
<td>123 (ALL)</td>
<td></td>
</tr>
<tr>
<td>PLAY DVD</td>
<td></td>
</tr>
<tr>
<td>18 (34)</td>
<td></td>
</tr>
<tr>
<td>C 01:32:55</td>
<td></td>
</tr>
<tr>
<td>1: ENGLISH</td>
<td>SUBTITLE</td>
</tr>
<tr>
<td>OFF</td>
<td>ENTER</td>
</tr>
<tr>
<td>1: ENGLISH</td>
<td></td>
</tr>
<tr>
<td>2: FRENCH</td>
<td></td>
</tr>
<tr>
<td>3: SPANISH</td>
<td></td>
</tr>
</tbody>
</table>
```

5 Select the item you want using ↑/↓.

```
<table>
<thead>
<tr>
<th>Items</th>
<th>Selected item</th>
</tr>
</thead>
<tbody>
<tr>
<td>123 (ALL)</td>
<td></td>
</tr>
<tr>
<td>PLAY DVD</td>
<td></td>
</tr>
<tr>
<td>18 (34)</td>
<td></td>
</tr>
<tr>
<td>C 01:32:55</td>
<td></td>
</tr>
<tr>
<td>1: ENGLISH</td>
<td>SUBTITLE</td>
</tr>
<tr>
<td>OFF</td>
<td>ENTER</td>
</tr>
<tr>
<td>1: ENGLISH</td>
<td></td>
</tr>
<tr>
<td>2: FRENCH</td>
<td></td>
</tr>
<tr>
<td>3: SPANISH</td>
<td></td>
</tr>
</tbody>
</table>
```

6 Press ENTER.

```
<table>
<thead>
<tr>
<th>Items</th>
<th>Selected item</th>
</tr>
</thead>
<tbody>
<tr>
<td>123 (ALL)</td>
<td></td>
</tr>
<tr>
<td>PLAY DVD</td>
<td></td>
</tr>
<tr>
<td>18 (34)</td>
<td></td>
</tr>
<tr>
<td>C 01:32:55</td>
<td></td>
</tr>
<tr>
<td>OFF</td>
<td></td>
</tr>
<tr>
<td>SUBTITLE</td>
<td></td>
</tr>
</tbody>
</table>
```

To cancel while making a selection
Press RETURN.

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

- Control Menu display 1
- Control Menu display 2
  (The items except the first three items from the top are changed to other items.)
- ADVANCED display (see page 48)
- Control Menu display off

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

💡 You can select some items directly
Some items can be selected by pressing the corresponding button on the remote or on the player. In this case, only the item you selected is displayed. For instructions on using the buttons, see the pages of each relevant item. For a list of available buttons on the player and remote, see pages 83 to 86.

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

**DISC (page 40)**

**TITLE (DVD only) (page 40)/**

**SCENE (VIDEO CD during PBC playback only) (page 40)/**

**TRACK (VIDEO CD only) (page 40)**

**CHAPTER (DVD only) (page 40)/**

**INDEX (VIDEO CD only) (page 40)**

**TRACK (CD only) (page 40)**

**INDEX (CD only) (page 40)**

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

**TIME/MEMO (pages 41, 42, 43)**

**TIME/TEXT (pages 41, 42, 43)**

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

You can also search for a scene 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 43)**

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

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

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

**SUBTITLE (DVD only) (page 45)**

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 46)**

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

**VES (DVD only) (page 47)**

Select a mode to enjoy multichannel surround sound such as Dolby Digital.

Even if you connect only TV or 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.

**ADVANCED (DVD only) (page 48)**

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

**CUSTOM PARENTAL CONTROL (page 49)**

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

The same password is used for both Parental Control (page 66) and Custom Parental Control.

**SETUP (page 60)**

Using the setup display, you can do the initial setup, adjust the picture and sound and set the various outputs.

You can also set a language for the subtitles and the setup display, limit playback by children, and so on. For details about the setup display, see page 60.

**1/ALL DISCS (page 51)**

You can have the player play one or all of the discs in the selected folder. You can switch between one disc mode or all disc mode in the Program Play, Shuffle Play and Repeat Play modes.

**PROGRAM (page 52)**

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

**SHUFFLE (page 54)**

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

**REPEAT (page 55)**

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

A-B REPEAT (page 56)
You can play a specific portion of a title, chapter, or track repeatedly.

VIEWER (DVD, VIDEO CD only) (page 57)
You can divide the screen into 9 sections (quick reference screen) and quickly search for a scene or a bookmark.

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

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

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

1. Select “DISC,” “TITLE,” “CHAPTER,” “TRACK,” “INDEX” or “SCENE” using ↑/↓.
   “** (**)” is highlighted (** refers to a number).
   The number in parentheses indicates the total number of titles, chapters, tracks, indexes or scenes.
Using Various Functions with the Control Menu

2 Press ► or ENTER.
“** (••)” changes 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 playback at the selected number.
To cancel the number, press CLEAR before pressing ENTER.

To cancel while making a selection
Press RETURN.

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

You can search for a title, chapter, or track using the VIEWER.
See “Scanning the title, chapter, or track” on page 58 for more information about using the VIEWER.

Checking the Playing Time and Remaining Time

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

Press DISPLAY. Then press TIME/TEXT to change the time information.
You can also check the DVD TEXT, CD TEXT or Disc Memo (page 43).

When playing a DVD
- TIME/MEMO or TIME/TEXT
  - C ** :**** :**: Playing time of the current chapter
  - C—** :**** :**: Remaining time of the current chapter
  - T ** :**** :**: Playing time of the current title
  - T—** :**** :**: Remaining time of the current title

When playing a VIDEO CD (during PBC playback)
- TIME/MEMO
  - ** :**: Playing time of the current scene

When playing a VIDEO CD (in continuous play) or CD
- TIME/MEMO or TIME/TEXT
  - T ** :**: Playing time of the current track
  - T—** :**: Remaining time of the current track
  - D ** :**: Playing time of the current disc
  - D—** :**: Remaining time of the current disc

You can select “TIME/MEMO” or “TIME/TEXT” directly
Press TIME/TEXT on the remote or on the player. Each time you press the button, the time information changes.
Selecting a Starting Point Using the Time Code

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

Select “TIME/MEMO” or “TIME/TEXT” after pressing DISPLAY.

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

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

2. Press ➙ or ENTER.
   Time code changes to “T – – : – – : – –.”

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

To cancel while making a selection
Press ◀RETURN.

Note
When you input the time code, input the playing time of the title, not the chapter or track time.
Viewing the Disc Information

You can check the DVD TEXT, CD TEXT or Disc Memo on the TV screen and the front panel display.

Press DISPLAY. Then press TIME/TEXT until DVD/CD TEXT is displayed. DVD TEXT and CD TEXT are information recorded on the disc which you cannot change.

The information is displayed at the bottom of the display.

If you entered a Disc Memo in Edit mode of the Disc Explorer function, the Disc Memo will appear at the bottom of the display instead.

If the disc does not contain a label, “NO TEXT” is displayed.

You can select “TIME/MEMO” or “TIME/TEXT” directly.

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

You can view the entire DVD/CD TEXT or Disc Memo recorded on the disc.

DVD/CD TEXT or Disc Memo is scrolled on the front panel display.

You can input the text information (Disc Memo).

You can input the Disc Memo on the Disc Explorer (see page 32).

Notes

• “NO TEXT” appears when the DVD/CD TEXT is not recorded on the disc.

• This player can only display the first level of DVD/CD TEXT information.

Changing the Sound

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

If the DVD is recorded in multiple audio formats (PCM, Dolby Digital or DTS), you can select the audio format 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 its stereo effect.

For example, with a disc containing a song, the right channel may output the vocals and the left channel may output the instrumental. If you only want to hear the instrumental, you can select the left channel and hear it from both speakers.

Select “AUDIO” after pressing DISPLAY.

You can select “TIME/MEMO” or “TIME/TEXT” directly.

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

You can view the entire DVD/CD TEXT or Disc Memo recorded on the disc.

DVD/CD TEXT or Disc Memo is scrolled on the front panel display.

You can input the text information (Disc Memo).

You can input the Disc Memo on the Disc Explorer (see page 32).

Notes

• “NO TEXT” appears when the DVD/CD TEXT is not recorded on the disc.

• This player can only display the first level of DVD/CD TEXT information.
Changing the Sound

💡 You can select “AUDIO” directly
Press AUDIO on the remote. Each time you press the button, the item changes.

Notes
- Depending on the DVD, you may not be able to change the languages even if multilingual tracks are recorded on the DVD.
- While playing the CD/VIDEO CD, standard stereo playback will be resumed when:
  - you open the front cover
  - the player enters standby mode by pressing 1/1 on the remote
  - you turn the power off by pressing ⊗ on the player
- While playing the DVD, the sound may be changed when:
  - you open the front cover
  - you change the title
- If “DTS” is set to “OFF” in “AUDIO SETUP,” the DTS track selection option will not appear on the screen even if the disc contains DTS tracks.

Displaying the audio information of the disc DVD

When you select “AUDIO,” the channels being played are displayed on the screen.
For example, in Dolby Digital format, multiple signals ranging from monaural to 5.1 channel signals can be recorded on a DVD. Depending on the DVD, the number of the recorded channels may be different.

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

For Dolby Digital 5.1 ch:

Rear component 2
DOLBY DIGITAL 3/2.1
Front component 2 + Center component 1
LFE (Low Frequency Effect) component 1

** The letters in the program format display mean the following:
- L: Front (left)
- R: Front (right)
- C: Center (monaural)
- LS: Rear (left)
- RS: Rear (right)
- S: Rear (monaural) – the rear component of the Dolby Surround processed stereo signal and the Dolby Digital signal
- LFE: LFE (Low Frequency Effect)
Using Various Functions with the Control Menu

The display examples are as follows:

- **PCM (stereo)**
  
  ![Display Example: PCM (stereo)]

- **Dolby Surround**
  
  ![Display Example: Dolby Surround]

- **Dolby Digital 5.1ch**
  
  “LFE” appears only when a disc contains an LFE signal component. “LFE” remains on the “PROGRAM FORMAT” display even if the LFE signal component is not being output.

  ![Display Example: Dolby Digital 5.1ch]

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

  ![Display Example: DTS]

- **Note**

  When the signal does not contain rear signal components such as LS, RS or S, the Virtual Enhanced Surround (VES) effect cannot be heard (page 47).

---

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 practice and turn the subtitles on for better understanding.

Select “SUBTITLE” after pressing DISPLAY.

---

**SUBTITLE**

Select the language. The languages you can select are different depending on the DVD. When 4 digits are displayed, they indicate the language code. Select the language code from the list on page 82.

💡 **You can select “SUBTITLE” directly**

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

**Notes**

- When playing a DVD on which no subtitles are recorded, no subtitles appear.
- Depending on the DVD, you may not be able to turn the subtitles on or off if they are recorded on the DVD.
- Depending on the DVD, you may not be able to turn the subtitles off.
- The type and number of languages for subtitles vary from disc to disc.
- Depending on the DVD, you may not be able to change the subtitles even if multilingual subtitles are recorded on it.
- While playing the DVD, the subtitle may change when:
  - you open the front cover
  - 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 “ANGLE” indicator lights up in green.

1 Select “ANGLE.”

2 Press ➡️.
   The number of the angle changes to “–”. The number in parentheses indicates the total number of angles.

3 Select the angle number using the number buttons or ↑/↓, then press ENTER.
   The angle is changed to the selected angle.

💡 You can select 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 57.

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

Select a mode to enjoy multichannel surround sound such as Dolby Digital.
Even if you connect only a stereo TV or 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: left, R: right) without using actual rear speakers.
The surround sound signals are output from the AUDIO OUT connectors. These signals are not output from the DIGITAL OUT OPTICAL or COAXIAL connector. When you select a surround mode, the player does not output the Dolby Digital signals from the DIGITAL OUT OPTICAL or COAXIAL connector if you set “DOLBY DIGITAL” in “AUDIO SETUP” to “D-PCM.”

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

Effects of each item

**OFF**
Outputs 2-channel signals for stereo sound. 5-channel signals for Dolby Digital sound of a DVD are mixed down to 2-channels.

**VES (Virtual Enhanced Surround) TV**
Uses 3D sound imaging to create virtual rear speakers from the sound of the front speakers (L, R) without using actual rear speakers. This mode is effective when the distance between the front L and R speakers is short, such as built-in speakers on a stereo TV.

<table>
<thead>
<tr>
<th>Indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="icon.png" alt="Icon" /></td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="icon.png" alt="Icon" /></td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="icon.png" alt="Icon" /></td>
</tr>
</tbody>
</table>

**VES**
Select the desired item. For details on each item, see “Effects of each item.” The default setting is underlined.
- **OFF**
- **VES TV**
- **VES A**
- **VES B**
- VIRTUAL SEMI MULTI DIMENSION

Select: [ ] ENTER  Cancel: [ ] RETURN
**Using Various Functions with the Control Menu**

**VIRTUAL SEMI MULTI DIMENSION**
Uses 3D sound imaging to create virtual rear speakers from the sound of the front speakers (L, R) without using actual rear speakers. This mode creates 5 sets of virtual speakers surrounding the listener at a 30˚ angle of elevation.

💡 You can select “VES” directly
Press VES on the player. Each time you press the button, the item changes.

**Notes**
- 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 TV,” “VES A,” “VES B” or “VIRTUAL SEMI MULTI DIMENSION.”
- Set the front speakers to form an equilateral triangle with the listening position at the top, or the effects may be difficult to hear even if you select “VES A,” “VES B” or “VIRTUAL SEMI MULTI DIMENSION.”
- When you select “VES TV,” “VES A,” “VES B” or “VIRTUAL SEMI MULTI DIMENSION,” set the surround settings of the connected units, such as the amplifier, to OFF.

---

**Checking the Play Information DVD**

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

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

Select “ADVANCED” after pressing DISPLAY.

**ADVANCED**
The default setting is underlined.

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

**Displays of each item**
By pressing DISPLAY repeatedly, you can display either “BIT RATE” or “LAYER,” whichever was selected in “ADVANCED.”

**BIT RATE**

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

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

You can set the same Custom Parental Control password for up to 301 slots. When you have the player store a new disc in memory, the data for the old disc is erased. The same password is used for both Parental Control (page 66) and Custom Parental Control.

Select “CUSTOM PARENTAL CONTROL” after pressing DISPLAY.

Setting the Custom Parental Control for a disc

1. Select the disc you want to lock.
   If a disc is playing, press ■ to stop playback.

2. Select “CUSTOM PARENTAL CONTROL” using ↑/↓, then press ENTER.

Locking Discs (Custom Parental Control)

Indicates the approximate point where the disc is playing. If it is a dual-layer DVD, the player indicates which layer is being read (“Layer 0” or “Layer 1”). For details on the layers, see page 81 (DVD).

Appears when the DVD has dual layers
Locking Discs (Custom Parental Control)

3 Select “ON” using ↑/↓, then press ENTER.
   - If you have not entered a password
     The display for entering a password appears.

   CUSTOM PARENTAL CONTROL
   Enter a new 4-digit password, then press ENTER.
   [ ] [ ] [ ]

   To return, press [RETURN].

   When you have already registered a password
   The display for confirming the password appears.
   Skip Step 4.

   CUSTOM PARENTAL CONTROL
   Enter password, then press ENTER.
   [ ] [ ] [ ]

   To return, press [RETURN].

4 Enter a 4-digit password using the number buttons, then press ENTER.
   The digits change to asterisks (●), and the display for confirming the password appears.

   CUSTOM PARENTAL CONTROL
   To confirm, enter password again, then press ENTER.
   [ ] [ ] [ ]

   To return, press [RETURN].

5 Enter the same 4-digit password using the number buttons, then press ENTER.
   “Custom parental control is set.” appears and then the screen returns to the Control Menu display.

To return to the normal screen
Press ENTER.

To turn off the Custom Parental Control function
1 Select the disc for which you want to turn off the
   Custom Parental Control function.
2 Select “CUSTOM PARENTAL CONTROL” using ↑/↓,
   then press ENTER.
3 Select “OFF” using ↑/↓, then press ENTER.
4 Enter your 4-digit password using the number buttons,
   then press ENTER.

To change the password
1 Select “CUSTOM PARENTAL CONTROL” using ↑/↓,
   then press ENTER.
2 Select “PASSWORD” using ↑/↓, then press ENTER.
3 Enter your 4-digit password using the number buttons,
   then press ENTER.
   The display for changing the password appears.
4 Enter a new 4-digit password using the number buttons,
   then press ENTER.
5 To confirm your password, re-enter it using the number buttons, then press ENTER.
Selecting the Disc Mode
(1 Disc or All Discs)

You can have the player play one disc or all of the discs in the player. Before setting Program Play, Shuffle Play, or Repeat Play, you must select whether to set those play modes on one disc or all of the discs.

Select “1/ALL DISCS” after pressing DISPLAY.

- **1/DISC**
  - ALL DISCS: will play all of the discs in the player in consecutive order. Also allows you to set Program Play, Shuffle Play or Repeat Play for all of the loaded discs.
  - 1 DISC: will play the selected disc to the end. Also allows you to set Program Play, Shuffle Play or Repeat Play for 1 disc only.

**Custom Parental Control**

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

1. Select the disc.
   - The CUSTOM PARENTAL CONTROL display appears.

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

**If you forget your password**

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

**Note**

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

**You can select the mode directly**

Press 1/ALL DISCS on the remote or the player. 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 the disc(s) in the order you want by arranging the order of the titles, chapters or tracks on the disc(s) and create your own program. One program can be stored in the player and contain up to 99 titles, chapters and tracks. By selecting “1/ALL DISCS,” you can create a program for one or all of the discs in the player.

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

Creating the program

1. Select “SET” in “PROGRAM.”
   The programming display appears and “1” is highlighted.

2. Press ENTER.
   It is ready to set the first disc of a title or track for Program Play.

3. Select the disc you want to program using the number buttons or ↑/↓, then press ENTER.
   To select the EASY PLAY disc, press 301. “EZ” appears at the disc number.

   * “?” appears when the player has not loaded the disc information in the memory. If an empty slot is loaded, the disc type does not appear.

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.

PROGRAM

The default setting is underlined.
• OFF: plays normally.
• SET: allows you to create your own program.
• ON: plays Program Play.

Selected folder

Number buttons: ENTER, Return: RETURN

Quit: PROGRAM, Start: PLAY

Selected folder

Number buttons: ENTER, Return: RETURN

Quit: PROGRAM, Start: PLAY

Selected folder

Number buttons: ENTER, Return: RETURN

Quit: PROGRAM, Start: PLAY

Selected folder

Number buttons: ENTER, Return: RETURN

Quit: PROGRAM, Start: PLAY

Selected folder

Number buttons: ENTER, Return: RETURN

Quit: PROGRAM, Start: PLAY

Selected folder

Number buttons: ENTER, Return: RETURN

Quit: PROGRAM, Start: PLAY

Selected folder

Number buttons: ENTER, Return: RETURN

Quit: PROGRAM, Start: PLAY

Selected folder

Number buttons: ENTER, Return: RETURN

Quit: PROGRAM, Start: PLAY

Selected folder

Number buttons: ENTER, Return: RETURN

Quit: PROGRAM, Start: PLAY

Selected folder

Number buttons: ENTER, Return: RETURN

Quit: PROGRAM, Start: PLAY

Selected folder

Number buttons: ENTER, Return: RETURN

Quit: PROGRAM, Start: PLAY

Selected folder

Number buttons: ENTER, Return: RETURN

Quit: PROGRAM, Start: PLAY

Selected folder

Number buttons: ENTER, Return: RETURN

Quit: PROGRAM, Start: PLAY

Selected folder

Number buttons: ENTER, Return: RETURN

Quit: PROGRAM, Start: PLAY

Selected folder

Number buttons: ENTER, Return: RETURN

Quit: PROGRAM, Start: PLAY

Selected folder
4 Select the title, chapter or track you want to program using ↑/↓, then press ENTER.
You can also use the number buttons and ENTER button to make a selection. In this case, the selected number is displayed on the screen.

When playing a DVD
For example, select title 1, chapter 1 in disc 3.
When both titles and chapters are recorded on the disc, select the title, then the chapter.

5 To program other discs, titles, chapters or tracks, repeat Steps 3 and 4.
The programmed discs, titles, chapters or tracks are displayed in the selected order.

6 Press ▶ to start Program Play.

To stop Program Play
Press CLEAR on the remote.

To cancel programming
Press PROGRAM on the remote.

To change the program
1 In Step 3, select the disc for which you want to change the program using ↑/↓.
2 Follow Step 4 for new title, chapter or track programming.

To cancel the programmed order
To cancel all the titles, chapters or tracks in the programmed order, select “ALL CLEAR.”
To cancel the selected program, select the program using ↑/↓ then press CLEAR.

The program remains even after 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 select “PROGRAM” directly
Press PROGRAM on the remote.

For easier programming, load the disc information
Press LOAD when the player is in standby or stop mode so that the player reads and loads the disc information.

Disc types are abbreviated on-screen as follows.
DVD : D
VCD : V
CD : C

When playing a VIDEO CD or CD
For example, select track 1 in disc 2.
Creating Your Own Program (Program Play)

You can select discs, titles, chapters and tracks for the program by looking at the front panel display.

You can program by looking at the front panel display instead of using the programming display on the TV screen. When you select Track 3 in a CD in disc slot 2 in the CD folder for Program 1, the front panel display will appear as follows:

![Diagram of front panel display with program number, disc number, and track number]

Notes
- The number of titles, chapters or tracks displayed are the same number of titles, chapters or tracks recorded on a disc.
- Program play is canceled when:
  - you open the front cover
  - the player enters standby mode by pressing $ / $ on the remote
  - you turn the power off by pressing $ on the player
- You cannot select side B contents for Program Play.
- Depending on the DVD, you may not be able to perform Program Play.
- If you are using the PBC playback function, you must first stop the disc before you can set a program.

Playing in Random Order (Shuffle Play)

You can have the player “shuffle” discs, titles, chapters or tracks and play them in a random order. Subsequent “shuffling” may produce a different playing order. By selecting “1/ALL DISCS,” you can have the player shuffle one disc or all of the discs in the selected folder.

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

![Diagram of shuffle settings with disc, track, and chapter options]

Selects the Shuffle Play setting.
The default settings are underlined.

When playing a DVD and when Program Play is set to OFF
- OFF: does not play the disc(s) in random order.
- DISC*: has the player “shuffle” discs in the folder and play them in a random order.
- TITLE: has the player “shuffle” titles in the folder and play them in a random order.
- CHAPTER: has the player “shuffle” chapters in the folder and play them in a random order.

When playing a VIDEO CD or CD (when Program Play is set to OFF)
- OFF: does not play the disc(s) in random order.
- DISC*: has the player “shuffle” discs in the folder and play them in a random order.
- TRACK: has the player “shuffle” tracks in the folder and play them in a random order.

When playing a VIDEO CD, CD or DVD (when Program Play is set to ON)
- OFF: does not play the disc(s) in random order.
- ON: has the player “shuffle” titles or tracks selected in Program Play and play them in a random order.

* Appears only when you select “ALL DISCS” in “1/ALL DISCS.”
Playing Repeatedly (Repeat Play)  

You can play all discs, or all of the titles or tracks on a disc, or a single title, chapter or track repeatedly. In Shuffle or Program Play mode, the player repeats the titles or tracks in the shuffled or programmed order. By selecting “1/ALL DISCS,” you can have the player repeat one disc or all of the discs in the selected folder. You cannot perform Repeat Play during PBC playback of VIDEO CDs (page 25).

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

**Indicator**

<table>
<thead>
<tr>
<th>REPEAT</th>
<th>ALL</th>
<th>DISC</th>
<th>OFF</th>
<th>TITLE</th>
<th>CHAPTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>SELECT</td>
<td>1 2 3</td>
<td>1 2 (27)</td>
<td>1 8 (34)</td>
<td>PLAY</td>
<td>DVD</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>REPEAT</th>
<th>ALL</th>
<th>DISC</th>
<th>OFF</th>
<th>TITLE</th>
<th>CHAPTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>SELECT</td>
<td>1 2 3</td>
<td>1 2 (27)</td>
<td>1 8 (34)</td>
<td>PLAY</td>
<td>DVD</td>
</tr>
</tbody>
</table>

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

**To stop Shuffle Play**

Press CLEAR on the remote.

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

- You can select “SHUFFLE” directly
  Press SHUFFLE on the player or the remote. Each time you press the button, the item changes.

**Notes**

- Shuffle Play is canceled when:
  - you open the front cover
  - the player enters standby mode by pressing I/◊ on the remote
  - you turn the power off by pressing ◊ on the player
- Depending on the DVD, you may not be able to perform Shuffle Play.
- Up to 96 chapters in a disc can be played in random order when “CHAPTER” is selected.
- You cannot perform Shuffle Play during PBC playback of VIDEO CDs (page 25).
- You cannot set Shuffle Play on side B contents.

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

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

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

- OFF: does not play repeatedly.
- DISC: repeats all tracks on the selected disc when you select “1 DISC” in “1/ALL DISCS,” and repeats all tracks in all discs in the folder when you select “ALL DISCS.”
- TRACK: repeats the current track.
Playing Repeatedly (Repeat Play)

When Program Play or Shuffle Play is on
• OFF: does not play repeatedly.
• ON: repeats Program Play or Shuffle Play.

To stop Repeat Play
Press CLEAR on the remote.

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

You can select “REPEAT” directly
Press REPEAT on the player or the remote. Each time you press the button, the item changes.

Notes
• Repeat play is canceled when:
  – you open the front cover
  – the player enters standby mode by pressing I/○ on the remote
  – you turn the power off by pressing ○ on the player
• Depending on the DVD, you may not be able to perform Repeat Play.
• You cannot set Repeat Play on side B contents.

Repeating a Specific Portion (A-B Repeat)

You can play a specific portion of a title, chapter or track repeatedly. This function is useful when you want to do such things as memorize lyrics.
During PBC Playback of VIDEO CDs (page 25), this function is available only while playing moving pictures.

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

A-B REPEAT
The default setting is underlined.
• SET: sets the A and B points.
• OFF: does not play a specific portion of a title/chapter/track repeatedly.

Setting a portion for A-B repeat

1 Select “A-B REPEAT” and press ENTER.

2 Select “SET” and press ENTER.
The A-B REPEAT setting display appears.

Set point A with ENTER.
3 During playback, when you find the starting point (point A) of the portion to be played repeatedly, press ENTER.
The starting point (point A) is set.

4 When you reach the ending point (point B), press ENTER again.
The set points are displayed and the player starts repeating this specific portion.
“A-B” appears on the front panel display during A-B repeat play.

To stop A-B Repeat Play
Press CLEAR on the remote.

Notes
• You can set A-B Repeat for only one specific portion.
• A–B Repeat is canceled when:
  – you open the front cover
  – the player enters standby mode by pressing I/○ on the remote
  – you turn the power off by pressing ○ on the player
• When you set A-B Repeat, the settings for Shuffle Play, Repeat Play, and Program Play are canceled.
• You may not be able to set A-B Repeat for some DVD or VIDEO CD scenes.
• You cannot set the start point (point A) on one disc and ending point (point B) on other disc.

Using the Quick Reference Screen (VIEWER) DVD VIDEO CD

You can divide the screen into 9 sections (quick reference screen) and enjoy the following functions.
• STROBE PLAYBACK
• TITLE VIEWER (DVD only)
• CHAPTER VIEWER (DVD only)
• TRACK VIEWER (VIDEO CD only)
• ANGLE VIEWER (DVD only)
• BOOKMARK

Select “VIEWER” after pressing DISPLAY.

Dividing a track into 9 sections
(STROBE PLAYBACK) DVD VIDEO CD

You can display 9 consecutive sections of the disc on the screen. If you are playing a disc, you can change the speed of the images on the screen by turning the click shuttle. When you press II, 9 still images around the pause position are displayed.

Select “STROBE PLAYBACK” in “VIEWER” and press ENTER. Nine consecutive scenes appear on the screen.

To cancel watching the strobe play
Press ○RETURN.

Notes
• Depending on the disc, there are some scenes you may not be able to watch with the strobe play function.
• The sound is muted when using this function.
Using the Quick Reference Screen (VIEWER)

**Scanning the title, chapter, or track**

You can check the first picture of titles, chapters or tracks of the disc, and start playback from the chosen title, chapter or track.

When playing a DVD, select “TITLE VIEWER” or “CHAPTER VIEWER” in “VIEWER” and press ENTER.

When playing a VIDEO CD, select “TRACK VIEWER” in “VIEWER” and press ENTER.

The screen will divide into 9 sections and show the first picture of each title, chapter or track.

**To start playback from the selected picture**

Select the picture using ← / ↑ / ↓ / →, then press ENTER. Playback starts from the selected picture.

💡 When there are over 9 titles, chapters or tracks

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

💡 You can check the number on the front panel display

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

**To cancel scanning the title, chapter or track**

Press ◀RETURN.

**Notes**

- Depending on the disc, you may not be able to scan the title, chapter or track.
- The sound is muted when using this function.

**Displaying different angles simultaneously**

With DVDs on which various angles (multi-angles) for a scene are recorded, you can display all of the angles recorded on the disc on the same screen, and start playback in continuous mode at the chosen angle. The angles are displayed on a screen divided in 9 sections.

Select “ANGLE VIEWER” in “VIEWER.” The available angles appear on the screen.

**To select one angle**

Select the angle using ← / ↑ / ↓ / →, then press ENTER. The selected angle is displayed.

**To cancel displaying multi-angles**

Press ◀RETURN.

💡 You can check the angle number on the front panel display

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

**Notes**

- If only one angle is recorded on the disc, then you will not be able to use this function.
- 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 appears when using this function, the player returns to normal playback.
- The sound is muted when using this function.
Setting and selecting favorite scene
(Bookmark) • DVD • VIDEO CD

You can have the player store specific portions of the disc in memory and play them immediately whenever you want (Bookmark). Up to 9 bookmarks per disc for up to 301 slots can be stored in memory.

Select “BOOKMARK” in “VIEWER.” The bookmarks appear on the screen.

To start playback from the selected picture
Select the picture using ← / ↑ / ↓ / →, then press ENTER. Playback starts from the selected picture.

To cancel scanning the bookmark pictures
Press □RETURN.

To reset the bookmark
Select the bookmark you want to reset using ← / ↑ / ↓ / →, then press CLEAR.

To reset all of the bookmarks for the player
Select “BOOKMARK RESET” under “CUSTOM SETUP” in the setup display. For details on resetting all of the bookmarks for the player, see page 66.

Setting a bookmark
During playback, when you find a scene to be bookmarked, press BOOKMARK on the remote.

Notes
• The player can store in memory the bookmarks of up to 301 slots. When you have the player store a new disc in memory, the data for the old disc is erased.
• Depending on the DVD, you may not be able to set the bookmark.
• Do not turn off the player by pressing ◄. Doing so may cancel the settings. When you turn off the player, press ■ first to stop playback and then press 1/○ on the remote. After the power indicator lights up in red and the player enters standby mode, press ○ on the player.
• The sound is muted when using this function.

You can check the bookmark number on the front panel display
The number of the bookmark you selected is displayed on the front panel display.
Settings and Adjustments

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

Using the Setup Display

Using the setup display, you can do the initial setup, adjust the picture and sound and set the various outputs. You can also set a language for the subtitles and the setup display, limit playback by children, and so on. For details on each setup display item, see pages 63 to 71.

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

1. Press DISPLAY and select “SETUP” using ↑/↓.

Selected item

Setup
Select: ENTER

© 2002 Sony Corporation
2 Press ENTER.
The setup display appears.

3 Select the main item you want using ↑/↓.

4 Press ENTER.
The selected main item is highlighted.

5 Select the item you want using ↑/↓.

6 Press ENTER.

7 Select the setting you want using ←/↑/↓/→.

8 Press ENTER.

9 Press DISPLAY.
The setup display disappears.

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

To return to the previous screen
Press RETURN.

To quit while making a selection
Press DISPLAY.

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

The default settings are underlined.

**LANGUAGE SETUP (page 63)**

- **OSD**
  - ENGLISH
  - FRENCH
  - SPANISH
  - PORTUGUESE

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

- **AUDIO**
  - ORIGINAL (same as DVD MENU)
  - AUDIO FOLLOW (same as DVD MENU)

- **SUBTITLE**
  - (same as DVD MENU)

**CUSTOM SETUP (page 65)**

- **AUTO PLAY**
  - OFF
  - TIMER
  - DEMO1
  - DEMO2

- **DIMMER**
  - BRIGHT
  - DARK
  - OFF

- **PAUSE MODE**
  - AUTO
  - FRAME

- **BOOKMARK RESET**

- **PARENTAL CONTROL**

- **PLAYBACK MEMORY**
  - ON
  - OFF

- **TRACK SELECTION**
  - OFF

**AUDIO SETUP (page 70)**

- **AUDIO ATT**
  - OFF
  - ON

- **AUDIO DRC**
  - STANDARD
  - TV MODE
  - WIDE RANGE

- **DOWNMIX**
  - DOLBY SURROUND
  - NORMAL

- **DIGITAL OUT**
  - ON
  - OFF

- **DOLBY DIGITAL**
  - D-PCM
  - DOLBY DIGITAL

- **DTS**
  - OFF

**SCREEN SETUP (page 64)**

- **TV TYPE**
  - 4:3 LETTER BOX
  - 4:3 PAN SCAN
  - 16:9/4:3 WIDE MODE

- **SCREEN SAVER**
  - ON
  - OFF

- **BACKGROUND**
  - JACKET PICTURE
  - PICTURE MEMORY
  - GRAPHICS
  - BLUE
  - BLACK

- **STARTUP SCREEN**
  - STANDARD
  - PICTURE MEMORY

**OTHERS**

- **AUDIO ORIGINAL** (same as DVD MENU)

- **SUBTITLE AUDIO FOLLOW** (same as DVD MENU)

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

- **4:3 PAN SCAN**
- **16:9/4:3 WIDE MODE**

- **PLAYBACK MEMORY**
  - ON
  - OFF


Setting the Display Language or Sound Track
(LANGUAGE SETUP)

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

Select “LANGUAGE SETUP” in the setup display.

Notes

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

■ OSD (On-Screen Display)
Selects the language for the on-screen display.
• ENGLISH
• FRENCH
• SPANISH
• PORTUGUESE

■ DVD MENU
Selects the language for the DVD menu.
• ENGLISH
• FRENCH
• SPANISH
• PORTUGUESE
• GERMAN
• ITALIAN
• DUTCH
• CHINESE
• JAPANESE
• DANISH
• SWEDISH
• FINNISH
• NORWEGIAN
• RUSSIAN
• OTHERS

■ AUDIO
Selects the language for the sound track.
• ORIGINAL: 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 82). After you have made a selection, the language code (4 digits) is displayed.

■ SUBTITLE
Selects the language for the subtitles.
• AUDIO FOLLOW
• 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 82). After you have made a selection, the language code (4 digits) is displayed.

* When you select “AUDIO FOLLOW,” the language for the subtitles changes according to the language you selected for the sound track.
“SCREEN SETUP” allows you to set the display according to the playback conditions. The default settings are underlined.

Select “SCREEN SETUP” in the setup display.

**TV TYPE**
Selects the aspect ratio of the TV to be connected.
- **4:3 LETTER BOX**: select this when you connect a normal TV to the player. Displays a wide picture with bands on the upper and lower portions of the screen.
- **4:3 PAN SCAN**: select this when you connect a normal TV to the player. Displays the wide picture on the whole screen automatically and cuts off the portions that do not fit.
- **16:9/4:3 WIDE MODE**: select this when you connect a wide-screen TV to the player or when you connect a TV with the WIDE MODE function to the player (displays a wide picture with picture bands displayed on the upper and lower portions of the screen).

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

**BACKGROUND**
Selects the background color or picture on the TV screen in stop mode or while playing a CD.
- **JACKET PICTURE**: The jacket picture appears in the background, but only when the jacket picture is already recorded on the disc.
- **PICTURE MEMORY**: Your favorite picture appears in the background. For an explanation of how to store your favorite scene recorded on the disc for the background picture, see the following section “Storing a picture in memory.”
- **GRAPHICS**: A preset picture stored in the player appears in the background.
- **BLUE**: The background color is blue.
- **BLACK**: The background color is black.

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

**STARTUP SCREEN**
Selects the startup screen. The startup screen image you selected appears when you turn on the player.
- **STANDARD**: The standard startup screen in the player’s memory appears.
- **PICTURE MEMORY**: Your favorite picture appears in the startup screen. For an explanation of how to store your favorite scene recorded on the disc for the startup screen, see the following section “Storing a picture in memory.”

If you select PICTURE MEMORY before setting a picture in memory, the standard startup screen will appear.

**Note**
Depending on the DVD, “4:3 LETTER BOX” may be selected automatically instead of “4:3 PAN SCAN” and vice versa.
### Storing a 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 only one scene in memory. The stored picture appears in both the background and the startup screen.
- Depending on the DVD, some scenes cannot be stored in memory when using the remote.
- When the picture is stored in memory by pressing PICTURE MEMORY, the picture stored before is erased.
- If you operate this player while the picture is being stored in memory, the player will fail to store the picture.

---

### Custom Settings (CUSTOM SETUP)

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

Select “CUSTOM SETUP” in the setup display.

#### AUTO PLAY

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

#### DIMMER

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

💡 You also can adjust the lighting with the DIMMER button on the player.

#### PAUSE MODE (DVD only)

Selects the picture in pause mode.
- **AUTO**: A picture, including subjects that move dynamically, is output with no jitter. Normally select this position.
- **FRAME**: A picture including subjects that do not move dynamically is output with high resolution.
Custom Settings (CUSTOM SETUP)

- **BOOKMARK RESET**
  Select “BOOKMARK RESET.” The BOOKMARK RESET display appears. And then press ENTER to reset all bookmarks.

- **PARENTAL CONTROL**
  Sets a password and playback limitation level for DVDs with playback limitation for children. The same password is used for both Parental Control and Custom Parental Control (page 49). For details, see “Limiting Playback by Children (Parental Control).”

**Limiting Playback by Children (Parental Control) (DVD)**
Playback of some DVDs can be limited depending on the age of the users. The “Parental Control” function allows you to set a playback limitation level.

Select “CUSTOM SETUP” in the setup display.

1. **Select “PARENTAL CONTROL” using ↑/↓, then press ENTER.**

2. **Enter a password in 4 digits using the number buttons, then press ENTER.**
   The digits change to asterisks (•), and the display for confirming the password appears.

3. **To confirm, enter password again, then press ENTER.**

   The display for entering a password appears.

4. **When you have not entered a password**
   The display for entering a password appears.

   - **CUSTOM SETUP**
     - PARENTAL CONTROL
       - Enter a new 4-digit password, then press ENTER.

   **To return, press RETURN.**
   **To cancel, press DISPLAY.**

5. **When you have already registered a password**
   The display for confirming the password appears. Skip Step 2.

   - **CUSTOM SETUP**
     - PARENTAL CONTROL
       - Enter password, then press ENTER.

   **To return, press RETURN.**
   **To cancel, press DISPLAY.**

   - **CUSTOM SETUP**
     - PARENTAL CONTROL
       - To confirm, enter password again, then press ENTER.

   **To return, press RETURN.**
   **To cancel, press DISPLAY.**
3 To confirm your password, enter it again using the number buttons, then press ENTER.
The display for setting the playback limitation level and changing the password appears.

4 Select “STANDARD” using ↑/↓, then press ➔.

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

6 Select “LEVEL” using ↑/↓, then press ➔.

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

The lower the value, the more strict the limitation.

To return to the normal screen
Press DISPLAY.

To turn off the Parental Control function and play the DVD after entering your password
Set “LEVEL” to “OFF” in Step 7, then press ➔.
To change the password
1 After Step 3, select “CHANGE PASSWORD” using \(\text{↑/↓}\), then press \(\text{→}\) or \(\text{ENTER}\).
The display for changing the password appears.
2 Follow Steps 2 and 3 to enter a new password.

Playing a disc which is blocked by the playback limitation level
1 Insert the disc and press \(\text{H}\).
The PARENTAL CONTROL display appears.
2 Enter your 4-digit password using the number buttons, then press \(\text{ENTER}\).
The player starts playback.
When you stop playing the DVD, the level returns to the original level.

If you forget your password
Enter the 6-digit number “199703” whenever the PARENTAL CONTROL display asks you for your password, then press \(\text{ENTER}\). The display will ask you to enter a new 4-digit password.

Notes
• When you play DVDs which do not have the Parental Control function, playback cannot be limited on this player.
• If you do not set a password, you cannot change the settings for playback limitation.
• Depending on the DVD, you may be asked to change the Parental Control level while playing the disc. In this case, enter your password, then change the level.
When you stop playing the DVD, the level returns to the original level.
• The same password is used for both Parental Control and Custom Parental Control (page 49).

<table>
<thead>
<tr>
<th>Standard</th>
<th>Code number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Argentina</td>
<td>2044</td>
</tr>
<tr>
<td>Australia</td>
<td>2047</td>
</tr>
<tr>
<td>Austria</td>
<td>2046</td>
</tr>
<tr>
<td>Belgium</td>
<td>2057</td>
</tr>
<tr>
<td>Brazil</td>
<td>2070</td>
</tr>
<tr>
<td>Canada</td>
<td>2079</td>
</tr>
<tr>
<td>Chile</td>
<td>2090</td>
</tr>
<tr>
<td>China</td>
<td>2092</td>
</tr>
<tr>
<td>Denmark</td>
<td>2115</td>
</tr>
<tr>
<td>Finland</td>
<td>2165</td>
</tr>
<tr>
<td>France</td>
<td>2174</td>
</tr>
<tr>
<td>Germany</td>
<td>2109</td>
</tr>
<tr>
<td>Hong Kong</td>
<td>2219</td>
</tr>
<tr>
<td>India</td>
<td>2248</td>
</tr>
<tr>
<td>Indonesia</td>
<td>2238</td>
</tr>
<tr>
<td>Italy</td>
<td>2254</td>
</tr>
<tr>
<td>Japan</td>
<td>2276</td>
</tr>
<tr>
<td>Korea</td>
<td>2304</td>
</tr>
<tr>
<td>Malaysia</td>
<td>2363</td>
</tr>
<tr>
<td>Mexico</td>
<td>2362</td>
</tr>
<tr>
<td>Netherlands</td>
<td>2376</td>
</tr>
<tr>
<td>New Zealand</td>
<td>2390</td>
</tr>
<tr>
<td>Norway</td>
<td>2379</td>
</tr>
<tr>
<td>Pakistan</td>
<td>2427</td>
</tr>
<tr>
<td>Philippines</td>
<td>2424</td>
</tr>
<tr>
<td>Portugal</td>
<td>2436</td>
</tr>
<tr>
<td>Russia</td>
<td>2489</td>
</tr>
<tr>
<td>Singapore</td>
<td>2501</td>
</tr>
<tr>
<td>Spain</td>
<td>2149</td>
</tr>
<tr>
<td>Sweden</td>
<td>2499</td>
</tr>
<tr>
<td>Switzerland</td>
<td>2086</td>
</tr>
<tr>
<td>Taiwan</td>
<td>2543</td>
</tr>
<tr>
<td>Thailand</td>
<td>2528</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>2184</td>
</tr>
</tbody>
</table>
PLAYBACK MEMORY (DVD only)
The player can store the AUDIO, SUBTITLE and other settings of each disc for up to 301 slots (Playback Memory).
Set the Playback Memory function on or off.
• ON : stores the settings in memory when you eject the disc.
• OFF : does not store the settings in memory.

The following settings are stored in memory by the Playback Memory function.
– AUDIO (page 43)
– SUBTITLE (page 45)
– ANGLE (page 46)
– VES (page 47)

Notes
• The player can store the settings of up to 301 slots. When you have the player store a new disc in memory, the data for the old disc is erased.
• The Playback Memory settings are not effective for side B.
• Depending on the DVD, the information stored in the disc takes priority over the Playback Memory settings and the function does not work.
• Do not turn off the player by pressing ⊊. Doing so may cancel the settings. When you turn off the player, press ⏹ first to stop playback and then press I/□ on the remote. After the power indicator lights up in red and the player enters standby mode, press ⊊ on the player.

TRACK SELECTION
Gives the sound track which contains the highest number of channels priority when you play a DVD on which multiple audio formats (PCM, DTS or Dolby Digital format) are recorded.
• OFF : No priority given.
• AUTO : Priority given.

Notes
• When you set this item to “AUTO,” the language may change depending on the “AUDIO” settings in “LANGUAGE SETUP.” The “TRACK SELECTION” setting has higher priority than the “AUDIO” settings in “LANGUAGE SETUP” (page 63).
• If you set “DTS” in “AUDIO SETUP” to “OFF,” the DTS sound track is not played even if you set this item to “AUTO” and the highest-numbered audio channel is recorded in DTS format.
• If PCM, DTS and Dolby Digital sound tracks have the same number of channels, the player selects PCM, DTS and Dolby Digital sound tracks in this order.
• Depending on the DVD, the audio channel with priority may be predetermined. In this case, you cannot give priority to the DTS or Dolby Digital format by selecting “AUTO.”
Settings for the Sound (AUDIO SETUP)

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

**■ AUDIO ATT (attenuation)**
If the playback sound is distorted, set this item to “ON.” The player reduces the audio output level. Selects the setting of the output from the AUDIO OUT (1, 2) connectors according to the audio equipment to be connected.
- OFF: turns off the audio attenuation. Normally select this position.
- ON: reduces the audio output level so that no sound distortion occurs. Select this when the playback sound from the built-in TV speakers is distorted.

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

**■ AUDIO DRC (Dynamic Range Control)** *(DVD only)*
Makes the sound clear when the volume is turned down when playing a DVD. This function works only when you play a DVD which has the AUDIO DRC function. This affects the output from the DIGITAL OUT connectors only when “DOLBY DIGITAL” is set to “D-PCM” in “DIGITAL OUT,” and it affects the output from the AUDIO OUT (1, 2) connectors.
- STANDARD: Normally select this position.
- TV MODE: makes the low sounds clear even if you turn the volume down. It is especially recommended when you listen to the sound using the speakers of the TV.
- WIDE RANGE: It gives you the feeling of being at a live performance. This function works only when you are playing a Dolby Digital disc. When you use high quality speakers, it is more effective.

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

**■ DOWNMIX**
Switches the mixing down methods when you play a DVD on which rear signal components such as LS, RS, or S are recorded in Dolby Digital format. For details on the rear signal components, see “Displaying the audio information of the disc” (page 44). The “DOWNMIX” setting affects the following connectors:
- AUDIO OUT connectors
- DIGITAL OUT OPTICAL and COAXIAL connectors (when you set “DOLBY DIGITAL” to “D-PCM” in “AUDIO SETUP” in the setup display)
- DOLBY SURROUND: when the player is connected to an audio component that conforms to Dolby Surround (Pro Logic). The output signals which reproduce the Dolby Surround (Pro Logic) effect are mixed down to 2 channels.
- NORMAL: when the player is connected to an audio component that does not conform to Dolby Surround (Pro Logic). The signals without the Dolby Surround (Pro Logic) effect are output.

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

**Notes**
- When you play sound tracks with a 96 kHz sampling frequency, the output signals from the DIGITAL OUT (OPTICAL, COAXIAL) connectors are converted to 48 kHz (sampling frequency). The analog audio signals from the AUDIO OUT connectors are not affected by this setting and keep their original sampling frequency level.
- When you select “OFF,” you cannot set “DOLBY DIGITAL” and “DTS.”
Setting the Digital Output Signal

Switches the methods of outputting audio signals when you connect 1. a digital component such as a receiver (amplifier) having a digital connector, 2. an audio component having a built-in decoder (Dolby Digital or DTS), 3. a DAT or MD via the DIGITAL OUT OPTICAL or COAXIAL connector using an optical or coaxial digital connecting cord. For connection details, see pages 10 and 12.

When you select “ON,” set “DOLBY DIGITAL” and “DTS.”

DOLBY DIGITAL

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

- **D-PCM (Downmix PCM):** when the player is connected to an audio component lacking a built-in Dolby Digital decoder. If you play Dolby Digital sound tracks, the output audio signals are mixed down to 2 channels. You can select whether the signals conform to Dolby Surround (Pro Logic) or not by making adjustments to the “DOWNMIX” item in “AUDIO SETUP.”
- **DOLBY DIGITAL:** when the player is connected to an audio component with a built-in Dolby Digital decoder. If the player is connected to an audio component lacking a built-in Dolby Digital decoder, do not set this.

Otherwise, when you play the Dolby Digital sound track, a loud noise or no sound will come out from the speakers, affecting your ears or causing the speakers to be damaged.

Note

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

DTS

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

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

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

To set, press  , then ENTER.

To quit, press [DISPLAY].
Controlling Your TV or AV Receiver (Amplifier) with the Supplied Remote

By adjusting the remote signal, you can control your TV or AV receiver (amplifier) with the supplied remote.

Controlling TVs with the remote

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

1. Slide the TV/DISC EXPLORER/DVD switch to TV.
2. Hold down \(I/\) and enter your TV's manufacturer's code (see the table) using the number buttons.
3. Release \(I/\).

Code numbers of controllable TVs

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

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Code number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sony (default)</td>
<td>01</td>
</tr>
<tr>
<td>Akai</td>
<td>04</td>
</tr>
<tr>
<td>AOC</td>
<td>04</td>
</tr>
<tr>
<td>Centurion</td>
<td>12</td>
</tr>
<tr>
<td>Coronado</td>
<td>03</td>
</tr>
<tr>
<td>Curis-Mathes</td>
<td>12</td>
</tr>
<tr>
<td>Daytron</td>
<td>12</td>
</tr>
<tr>
<td>Emerson</td>
<td>03,04,14</td>
</tr>
<tr>
<td>Fisher</td>
<td>11</td>
</tr>
<tr>
<td>General Electric</td>
<td>06, 10</td>
</tr>
<tr>
<td>Gold Star</td>
<td>03,04,17</td>
</tr>
<tr>
<td>Hitachi</td>
<td>02,03</td>
</tr>
<tr>
<td>J.C. Penney</td>
<td>04,12</td>
</tr>
<tr>
<td>JVC</td>
<td>09</td>
</tr>
<tr>
<td>KMC</td>
<td>03</td>
</tr>
<tr>
<td>Magnavox</td>
<td>03,08,12</td>
</tr>
<tr>
<td>Marantz</td>
<td>04,13</td>
</tr>
<tr>
<td>MGA/Mitsubishi</td>
<td>04,12,13,17</td>
</tr>
<tr>
<td>NEC</td>
<td>04, 12</td>
</tr>
</tbody>
</table>

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

Notes

- If you enter a new code number, the code number previously entered will be erased.
- When you replace the batteries of the remote, the code number may be reset to the default setting. Reset the appropriate code number.
Controlling the TV
When you set the TV/DISC EXPLORER/DVD switch to TV, you can control your TV using the buttons below.

By pressing | You can
---|---
I/○ | Turn the TV on or off
TV/VIDEO | Switch the TV’s input source between the TV and other input sources
VOL | Adjust the volume of the TV
CH | Select the channel of the TV
WIDE MODE | Switch the wide picture on or off

Number buttons and ENTER | Select the channel of the TV

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

Controlling AV receivers (amplifiers) with the remote

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

2 Hold down I/○, and enter your AV receiver's manufacturer's code (see the table) using the number buttons.

3 Release I/○.

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

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Code number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sony</td>
<td>91 (default), 89</td>
</tr>
<tr>
<td>Denon</td>
<td>84, 85, 86</td>
</tr>
<tr>
<td>Kenwood</td>
<td>92, 93</td>
</tr>
<tr>
<td>Onkyo</td>
<td>81, 82, 83</td>
</tr>
<tr>
<td>Pioneer</td>
<td>99</td>
</tr>
<tr>
<td>Sansui</td>
<td>87</td>
</tr>
<tr>
<td>Technics</td>
<td>97, 98</td>
</tr>
<tr>
<td>Yamaha</td>
<td>94, 95, 96</td>
</tr>
</tbody>
</table>

Notes
- If you enter a new code number, the code number previously entered will be erased.
- When you replace the batteries of the remote, the code number may be reset to the default setting. Reset the appropriate code number.

Controlling the AV receiver (amplifier)
When you set the TV/DISC EXPLORER/DVD switch to DVD, you can change the volume of the AV receiver (amplifier) using VOL.

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

Connect the CD changer to the MEGA CONTROL jack of the player using the CONTROL A1 cable (not supplied).

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. Set the TV/DISC EXPLORER/DVD switch on the remote to DISC EXPLORER or DVD.
3. Turn on the player and the CD changer.
4. Press MEGA CONTROL on the player or MEGA on the remote.
   The MEGA CONTROL button on the front panel lights up and the display shows the current disc number in the CD changer.
5. Select the play mode you want on the CD changer.
6. Press the direct search button on the player to start playing.
   Playback starts and the display shows the current disc and track numbers and the playing time of the track.

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

- Number buttons
- ENTER
- DIRECT SEARCH
- MEGA CONTROL
- DISC CHANGE
<table>
<thead>
<tr>
<th>To</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select a disc during playback</td>
<td>Press the number button on the remote and ENTER, or ↑/↓ and ENTER, or turn the click shuttle slowly and press ENTER. Or, press DISC CHANGE to turn the indicator on followed by turning the ◀/▶/◀/▶+ dial and then pressing it.</td>
</tr>
<tr>
<td>Skip by 10 discs in continuous play mode</td>
<td>Press ◀/▶ and then press ENTER.</td>
</tr>
<tr>
<td>Stop</td>
<td>Press ■.</td>
</tr>
<tr>
<td>Pause</td>
<td>Press ■.</td>
</tr>
<tr>
<td>Resume play after pause</td>
<td>Press ■ or ▶&gt;.</td>
</tr>
<tr>
<td>Go to the next track during playback</td>
<td>On the player: Press DIRECT SEARCH to turn it on and turn the ◀/▶/◀/▶+ dial clockwise. On the remote: Press ▶.</td>
</tr>
<tr>
<td>Go back to the preceding track during playback</td>
<td>On the player: Press DIRECT SEARCH to turn it on and turn the ◀/▶/◀/▶+ dial counterclockwise. On the remote: Press ◀.</td>
</tr>
</tbody>
</table>

**To control the player again**

Press MEGA CONTROL on the player or MEGA on the remote.

The MEGA CONTROL button on the player turns off and you can control the player.

**Notes**

- Connect only a Sony 5/50/200/300 CD changer to the MEGA CONTROL jack.
- You cannot locate a particular point on a CD’s track 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 panel is lit.
- The player will not enter Resume Play after the MEGA CONTROL button on the front panel 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.
- When the MEGA CONTROL button is lit, you cannot use the Control Menu and Disc Explorer.
Troubleshooting

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

Power

The power is not turned on.
➤ Check that the 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.

Picture noise appears.
➤ Clean the disc.
➤ If the video signal from your DVD player has to go through your VCR to get to your TV, the copy-protection applied to some DVD programs could affect picture quality. If you still experience problems after checking your connections, please try connecting your DVD player directly to your TV’s S-input, if your TV is equipped with this input. (page 8)

Even though you set the aspect ratio in “TV TYPE” in “SCREEN SETUP” of the setup display, the picture does not fill the screen.
➤ The aspect ratio is fixed on your DVD.
Sound

There is no sound.

➤ Check that the player is connected securely.
➤ The audio connecting cord is damaged. Replace it with a new one.
➤ Make sure you connect the player to the audio input connectors on the receiver (amplifier). (page 10)
➤ Make sure you turn on the TV and the receiver (amplifier).
➤ Make sure you select the appropriate input on the receiver (amplifier) so that you can listen to the sound from the player.
➤ The player is in pause mode or in Slow-motion Play mode. Press ↓ to return to normal play mode.
➤ The player is in fast forward or fast reverse mode. Press ↓ to return to normal play mode.
➤ If you use the DIGITAL OUT connectors, set “DIGITAL OUT” to “ON” in the setup display. Otherwise no sound will come from the DIGITAL OUT connectors. (page 70)
➤ You selected a VES mode other than “OFF” in the Control Menu display when you connected the component via the DIGITAL OUT OPTICAL or COAXIAL connector. Set “VES” to “OFF” in the Control Menu display. (page 47)
➤ When you play DTS sound tracks, sound will only come out from the DIGITAL OUT OPTICAL or COAXIAL connector. (page 20)

Sound is noisy.

➤ Clean the disc.
➤ When you play a CD with DTS sound tracks, noise will come from any connector other than the DIGITAL OUT OPTICAL or COAXIAL connector. (page 20)

Sound distortion occurs.

➤ In the setup display, set “AUDIO ATT” in “AUDIO SETUP” to “ON.” (page 70)

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

➤ Set “AUDIO” to “STEREO” in the Control Menu display. (page 43)
➤ Make sure you connect the player correctly. (pages 8, 10, 12)

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

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

Operation

The remote does not function.

➤ Remove any obstacles between the remote and the player.
➤ Use the remote near the player.
➤ Point the remote at the remote sensor ( ) on the player.
➤ Replace all of the batteries in the remote with new ones if they are weak.
➤ The TV/DISC EXPLORER/DVD switch is not in the correct position.

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 left into the disc slot.
➤ Clean the disc.
➤ The player cannot play CD-ROMs, etc. (page 5)
➤ Insert a DVD, a VIDEO CD, or a 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.

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

➤ Program Play, Shuffle Play, Repeat Play or A-B Repeat Play has been selected. Press CLEAR. (pages 52 through 57)
➤ Resume Play has been selected.
➤ Press ( ) on the front panel or on the remote before you start playing. (page 23)
➤ 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 disc automatically.
   ➔ The DVD features the auto playback function.
   ➔ “AUTO PLAY” in “CUSTOM SETUP” is set to “TIMER.” (page 65)

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

You cannot perform some functions such as Stop, Search, Slow-motion Play, Repeat Play, Shuffle Play or Program Play.
   ➔ Depending on the disc, you may not be able to do some of the operations above.

Messages do not appear on the TV screen in the language you want.
   ➔ In the setup display, select the desired language for the on-screen display in “OSD” under “LANGUAGE SETUP.” (page 63)

The language for the sound track cannot be changed when you play a DVD.
   ➔ Multilingual tracks are not recorded on the DVD.
   ➔ Changing the language for the track is prohibited on the DVD.

The subtitle language cannot be changed when you play a DVD.
   ➔ Multilingual subtitles are not recorded on the DVD.
   ➔ Changing the language for the subtitles is prohibited on the DVD.

The subtitles cannot be turned off when you play a DVD.
   ➔ Depending on the DVD, you may not be able to turn the subtitles off.

The angles cannot be changed when you play a DVD.
   ➔ Multi-angles are not recorded on the DVD.
   ➔ Change the angles when “ANGLE” appears on the front panel display. (page 26)
   ➔ Changing the angles is prohibited on the DVD.

The player does not operate properly.
   ➔ Static electricity, etc., may affect the player’s operation.
   ➔ Press ① on the player to turn the player off and then on again.

Nothing is displayed on the front panel display.
   ➔ Press DIMMER on the player. (page 26)
   ➔ In the setup display, “DIMMER” in “CUSTOM SETUP” is set to “OFF.”
   ➔ Set “DIMMER” to “BRIGHT” or “DARK.” (page 65)

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 74)

5 numbers or letters are displayed on the screen and on the front panel display.
   ➔ The self-diagnosis function was activated. See the table on page 79.

The front cover does not open and “LOCKED” is displayed on the front panel display.
   ➔ Contact your Sony dealer or local authorized Sony service facility.

The FLIP button does not operate.
   ➔ The disc you are trying to flip does not have a side B.
Self-diagnosis function

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

<table>
<thead>
<tr>
<th>First three characters</th>
<th>Cause and/or Corrective Action</th>
</tr>
</thead>
</table>
| C13                    | • The disc is dirty.  
                          |   ➞ Clean the disc with a cleaning cloth. (page 6)  
                          | • The disc is not facing the correct direction.  
                          |   ➞ Place the disc in the slot so that the playing side is facing left. |
| C31                    | • The front cover will not open or close all the way.  
                          |   ➞ Remove any objects that may be blocking the movement of the front cover. |
| Exx (xx is any number) | • To prevent a malfunction, the player has performed the self-diagnosis function. The front cover automatically open and the player enters standby mode.  
                          |   ➞ When you contact your Sony dealer or local authorized Sony service facility, remove all of the discs in the player and give the 5-character service number. (example: E:61:10) |

Specifications

CD/DVD player

<table>
<thead>
<tr>
<th>Laser</th>
<th>Semiconductor laser</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal format system</td>
<td>NTSC</td>
</tr>
</tbody>
</table>

Audio characteristics

Frequency response

<table>
<thead>
<tr>
<th>DVD (PCM 96 kHz): 2 Hz to 44 kHz</th>
<th>±1.0 dB*</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVD (PCM 48 kHz): 2 Hz to 22 kHz</td>
<td>±0.5 dB</td>
</tr>
<tr>
<td>CD: 2 Hz to 20 kHz</td>
<td>±0.5 dB</td>
</tr>
</tbody>
</table>

Signal-to-noise ratio

More than 110 dB  
(AUDIO OUT connectors only)

Harmonic distortion

Less than 0.003 %

Dynamic range

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

Wow and flutter

Less than detected value  
(±0.001% W PEAK)

Outputs/Inputs

<table>
<thead>
<tr>
<th>Jack type</th>
<th>Output/input level</th>
<th>Load impedance</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUDIO OUT (1, 2)</td>
<td>2 Vrms (at 50 kilohms)</td>
<td>Over 10 kilohms</td>
</tr>
<tr>
<td>DIGITAL OUT (OPTICAL)</td>
<td>Optical output connector</td>
<td>Wave length: 660 nm</td>
</tr>
<tr>
<td>DIGITAL OUT (COAXIAL)</td>
<td>Phono jack</td>
<td>0.5 Vp-p</td>
</tr>
<tr>
<td>VIDEO OUTPUT (1, 2)</td>
<td>Phono jacks</td>
<td>1.0 Vp-p</td>
</tr>
<tr>
<td>S VIDEO OUTPUT (1, 2)</td>
<td>4-pin mini DIN</td>
<td>Y: 1.0 Vp-p</td>
</tr>
<tr>
<td>COMPONENT VIDEO OUT (Y, Pb, Ps)</td>
<td>Phono jacks</td>
<td>Y: 1.0 Vp-p</td>
</tr>
<tr>
<td></td>
<td>Pb, Ps: 0.7 Vp-p</td>
<td>75 ohms</td>
</tr>
<tr>
<td>S-LINK (CONTROL S IN)</td>
<td>Mini jack</td>
<td>–</td>
</tr>
</tbody>
</table>
Specifications

<table>
<thead>
<tr>
<th>Jack type</th>
<th>Output/input level</th>
<th>Load impedance</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEGA CONTROL</td>
<td>Mini jack</td>
<td>–</td>
</tr>
<tr>
<td>AUDIO IN</td>
<td>Phono jack</td>
<td>2 Vrms</td>
</tr>
</tbody>
</table>

**General**

- **Power requirements**: 120 V AC, 60 Hz
- **Power consumption**: 18 W
- **Dimensions (approx.)**: 430 x 158 x 415 mm (17 x 6 1/4 x 16 3/8 in.) (w/h/d) incl. projecting parts
- **Mass (approx.)**: 7.0 kg (15 lb 7 oz)
- **Operating temperature**: 5 °C to 35 °C (41 °F to 95 °F)
- **Operating humidity**: 25 % to 80 %

**Supplied accessories**

See page 7.

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

Design and specifications are subject to change without notice.

**ENERGY STAR®** is a U.S. registered mark.

As an **ENERGY STAR®** Partner, Sony Corporation has determined that this product meets the **ENERGY STAR®** guidelines for energy efficiency.

---

**Glossary**

**Bit rate (page 48)**

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

**Chapter (page 5)**

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

**Digital Cinema Sound (DCS) (page 47)**

The general name of technology that Sony developed to enjoy surround sound in a home. It simulates the sound of a movie editing studio instead of the usual concert hall so that you can enjoy the surround sound of a movie theater in the comfort of your own home. The VES (Virtual Enhanced Surround) system contained in DCS programs 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 10, 71)**

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

**Dolby Pro Logic (page 71)**

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

**DTS (pages 12, 71)**

Digital audio compression technology that Digital Theater Systems, Inc. developed. This technology conforms to 5.1-channel surround. The rear channel is stereo and there is a discrete subwoofer channel in this format. DTS provides the same 5.1 discrete channels of high quality digital audio. Good channel separation is realized because all of the channel data is recorded discretely and processed in digital.
**DVD (page 4)**
A disc that contains up to 8 hours of moving pictures even though its diameter is the same as a CD.
The data capacity of a single-layer and single-sided DVD is 4.7 GB (Giga Byte) which is 7 times that of a CD. The data capacity of a dual-layer and single-sided DVD is 8.5 GB, a single-layer and double-sided DVD is 9.4 GB, and a dual-layer and double-sided DVD is 17 GB.
The picture data uses the MPEG 2 format, one of the worldwide standards of digital compression technology. The picture data is compressed to about 1/40 of its original size. The DVD also uses a variable rate coding technology that changes the data to be allocated according to the status of the picture.
Audio data is recorded in Dolby Digital as well as in PCM, allowing you to enjoy a more real audio presence. Furthermore, various advanced functions such as the multi-angle, multilingual, and Parental Control functions are provided with the DVD.

**Multi-angle function (page 46)**
Various angles for the scene (viewpoints of the video camera) are recorded on some DVDs.

**Multilingual function (pages 14, 45, 63)**
Several languages for the audio track or subtitles in a picture are recorded on some DVDs.

**Parental Control (page 66)**
A function of the DVD used to limit playback of the disc according to the age of the user and the limitation level in each country. The limitation varies from disc to disc; when it is activated, playback is completely prohibited, violent scenes are skipped or replaced with other scenes, and so on.

**Playback Control (PBC) (page 25)**
Signals encoded on VIDEO CDs (Version 2.0) to control playback.
By using menus recorded on VIDEO CDs with PBC functions, you can enjoy playing simple interactive programs, programs with search functions, and so on.

**Title (page 5)**
The longest section of a picture or a music piece on a DVD; a movie, etc., for a picture piece on video software; or an album, etc., for a music piece on audio software. Each title is assigned a title number enabling you to locate the title you want.

---

**Track (page 5)**
Sections of a picture or a music piece on a CD or VIDEO CD. Each track is assigned a track number enabling you to locate the track you want.

**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.
<table>
<thead>
<tr>
<th>Code</th>
<th>Language</th>
<th>Code</th>
<th>Language</th>
<th>Code</th>
<th>Language</th>
<th>Code</th>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>1027</td>
<td>Afar</td>
<td>1186</td>
<td>Scots Gaelic</td>
<td>1350</td>
<td>Malayalam</td>
<td>1513</td>
<td>Siswati</td>
</tr>
<tr>
<td>1028</td>
<td>Abkhazian</td>
<td>1194</td>
<td>Galician</td>
<td>1352</td>
<td>Mongolian</td>
<td>1514</td>
<td>Sesotho</td>
</tr>
<tr>
<td>1032</td>
<td>Afrikaans</td>
<td>1196</td>
<td>Guarani</td>
<td>1353</td>
<td>Moldavian</td>
<td>1515</td>
<td>Sundanese</td>
</tr>
<tr>
<td>1039</td>
<td>Amharic</td>
<td>1203</td>
<td>Gujarati</td>
<td>1356</td>
<td>Marathi</td>
<td>1516</td>
<td>Swedish</td>
</tr>
<tr>
<td>1044</td>
<td>Arabic</td>
<td>1209</td>
<td>Hausa</td>
<td>1357</td>
<td>Malay</td>
<td>1517</td>
<td>Swahili</td>
</tr>
<tr>
<td>1045</td>
<td>Assamese</td>
<td>1217</td>
<td>Hindi</td>
<td>1358</td>
<td>Maltese</td>
<td>1521</td>
<td>Tamil</td>
</tr>
<tr>
<td>1051</td>
<td>Aymara</td>
<td>1226</td>
<td>Croatian</td>
<td>1363</td>
<td>Burmese</td>
<td>1525</td>
<td>Toluugu</td>
</tr>
<tr>
<td>1052</td>
<td>Azerbaijani</td>
<td>1229</td>
<td>Hungarian</td>
<td>1365</td>
<td>Nauru</td>
<td>1527</td>
<td>Tajik</td>
</tr>
<tr>
<td>1053</td>
<td>Bashkir</td>
<td>1233</td>
<td>Armenian</td>
<td>1369</td>
<td>Nepali</td>
<td>1528</td>
<td>Thai</td>
</tr>
<tr>
<td>1057</td>
<td>Byelorussian</td>
<td>1235</td>
<td>Interlingua</td>
<td>1376</td>
<td>Dutch</td>
<td>1529</td>
<td>Tigrinya</td>
</tr>
<tr>
<td>1059</td>
<td>Bulgarian</td>
<td>1239</td>
<td>Interlingue</td>
<td>1379</td>
<td>Norwegian</td>
<td>1531</td>
<td>Turkmen</td>
</tr>
<tr>
<td>1060</td>
<td>Bihar</td>
<td>1245</td>
<td>Inupiak</td>
<td>1393</td>
<td>Occitan</td>
<td>1532</td>
<td>Tagalog</td>
</tr>
<tr>
<td>1061</td>
<td>Bislama</td>
<td>1248</td>
<td>Indonesian</td>
<td>1403</td>
<td>(Afan) Oromo</td>
<td>1534</td>
<td>Setswana</td>
</tr>
<tr>
<td>1066</td>
<td>Bengali; Bangla</td>
<td>1253</td>
<td>Icelandic</td>
<td>1408</td>
<td>Oriya</td>
<td>1535</td>
<td>Tonga</td>
</tr>
<tr>
<td>1067</td>
<td>Tibetan</td>
<td>1254</td>
<td>Italian</td>
<td>1417</td>
<td>Punjabi</td>
<td>1538</td>
<td>Turkish</td>
</tr>
<tr>
<td>1070</td>
<td>Breton</td>
<td>1257</td>
<td>Hebrew</td>
<td>1428</td>
<td>Polish</td>
<td>1539</td>
<td>Tsonga</td>
</tr>
<tr>
<td>1079</td>
<td>Catalan</td>
<td>1261</td>
<td>Japanese</td>
<td>1435</td>
<td>Pashto; Pashto</td>
<td>1540</td>
<td>Tatar</td>
</tr>
<tr>
<td>1093</td>
<td>Corsican</td>
<td>1269</td>
<td>Yiddish</td>
<td>1436</td>
<td>Portuguese</td>
<td>1543</td>
<td>Twi</td>
</tr>
<tr>
<td>1097</td>
<td>Czech</td>
<td>1283</td>
<td>Javanese</td>
<td>1463</td>
<td>Quechua</td>
<td>1557</td>
<td>Ukrainian</td>
</tr>
<tr>
<td>1103</td>
<td>Welsh</td>
<td>1287</td>
<td>Georgian</td>
<td>1481</td>
<td>Rhaeto-Romance</td>
<td>1564</td>
<td>Urdu</td>
</tr>
<tr>
<td>1105</td>
<td>Danish</td>
<td>1297</td>
<td>Kazakh</td>
<td>1482</td>
<td>Kirundi</td>
<td>1572</td>
<td>Uzbek</td>
</tr>
<tr>
<td>1109</td>
<td>German</td>
<td>1298</td>
<td>Greenlandic</td>
<td>1483</td>
<td>Romanian</td>
<td>1581</td>
<td>Vietnamese</td>
</tr>
<tr>
<td>1130</td>
<td>Bhutani</td>
<td>1299</td>
<td>Cambodian</td>
<td>1489</td>
<td>Russian</td>
<td>1582</td>
<td>Volapük</td>
</tr>
<tr>
<td>1142</td>
<td>Greek</td>
<td>1300</td>
<td>Kannada</td>
<td>1491</td>
<td>Kinyarwanda</td>
<td>1613</td>
<td>Wolof</td>
</tr>
<tr>
<td>1144</td>
<td>English</td>
<td>1301</td>
<td>Korean</td>
<td>1495</td>
<td>Sanskrit</td>
<td>1632</td>
<td>Xhosa</td>
</tr>
<tr>
<td>1145</td>
<td>Esperanto</td>
<td>1305</td>
<td>Kashmiri</td>
<td>1498</td>
<td>Sindhi</td>
<td>1665</td>
<td>Yoruba</td>
</tr>
<tr>
<td>1149</td>
<td>Spanish</td>
<td>1307</td>
<td>Kurdish</td>
<td>1501</td>
<td>Sangho</td>
<td>1684</td>
<td>Chinese</td>
</tr>
<tr>
<td>1150</td>
<td>Estonian</td>
<td>1311</td>
<td>Kirghiz</td>
<td>1502</td>
<td>Serbo-Croatian</td>
<td>1697</td>
<td>Zulu</td>
</tr>
<tr>
<td>1151</td>
<td>Basque</td>
<td>1313</td>
<td>Latin</td>
<td>1503</td>
<td>Sinhalese</td>
<td>1703</td>
<td>Not specified</td>
</tr>
<tr>
<td>1157</td>
<td>Persian</td>
<td>1326</td>
<td>Lingala</td>
<td>1505</td>
<td>Slovak</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1165</td>
<td>Finnish</td>
<td>1327</td>
<td>Laothian</td>
<td>1506</td>
<td>Slovenian</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1166</td>
<td>Fiji</td>
<td>1332</td>
<td>Lithuanian</td>
<td>1507</td>
<td>Samoan</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1171</td>
<td>Faroese</td>
<td>1334</td>
<td>Latvian; Lettish</td>
<td>1508</td>
<td>Shona</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1174</td>
<td>French</td>
<td>1345</td>
<td>Malagasy</td>
<td>1509</td>
<td>Somali</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1181</td>
<td>Frisian</td>
<td>1347</td>
<td>Maori</td>
<td>1511</td>
<td>Albanian</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1183</td>
<td>Irish</td>
<td>1349</td>
<td>Macedonian</td>
<td>1512</td>
<td>Serbian</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Index to Parts and Controls

Refer to the pages indicated in parentheses for details.

**Front Panel**

1. **(power) button and indicator (19)**
   Disconnects the power of the player or places the player in standby mode.

2. **(remote sensor) (7)**
   Accepts the remote control signals.

3. **DIMMER button and indicator (26)**
   Press to change the brightness of the front panel display and the indicators on the front panel. The DIMMER indicator lights up when the front panel is off.

4. **VES button and indicator (47)**
   Press to select the desired “VES” item. The indicator lights up for every selected item except “OFF.”

5. **Disc compartment (16)**
   Insert discs in the disc slots.

6. **( – )/>(+ dial (16, 19, 20)**
   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 or select disc.

7. **△ EJECT button (18)**
   Press to remove the disc from the disc slot.

8. **DIRECT SEARCH button and indicator (20)**
   Press to use the ( – )/>(+ dial to locate the chapter or track.

9. **OPEN/CLOSE button (16)**
   Opens or closes the front cover.

10. **DISC CHANGE button and indicator (16, 19)**
    Press to use the ( – )/>(+ dial to rotate the disc slots or select disc.

11. **EASY PLAY button and indicator (17)**
    Press to play the EASY PLAY disc or bring the EASY PLAY slot to the loading position.

12. **MEGA CONTROL button and indicator (74)**
    Press to control the connected CD changer.

13. **FLIP button and indicator (21)**
    Press to turn over the disc.

14. **( stop) button (20, 23)**
    Stops playing a disc.

15. **( pause) button (20)**
    Pauses playing a disc.

16. **( play) button (19)**
    Plays a disc.

17. **JOG button and indicator (22)**
    Press to play a disc frame by frame.

18. **KEYBOARD jack (34)**
    Connect a keyboard to label the discs.

19. **FOLDER buttons (29)**
    Selects a disc folder.

20. **Front Panel Display (26)**
    Indicates the playing time, etc.

21. **REPEAT button (56)**
    Each time you press this button, the “REPEAT” setting changes.

22. **LOAD button (28)**
    Reads the information of the discs loaded in sequence.

23. **SHUFFLE button (55)**
    Each time you press this button, the “SHUFFLE” setting changes.

continued to the next page
Index to Parts and Controls

24 TIME/TEXT button (26, 41, 43)
Displays the playing time of the disc, etc., on the front panel display.

25 1/ALL DISCS button (51)
Selects 1 DISC or ALL DISCS play mode.

26 DISPLAY button (37)
Displays the Control Menu display on the TV screen to set or adjust the Control Menu items.

27 RETURN button (25, 29, 38)
Press to return to the previously selected screen, etc.

28 TITLE button (24)
Displays the title menu on the TV screen.

29 DVD MENU button (25)
Displays the DVD menu on the TV screen.

30 Click shuttle (22)
Changes the playback speed.

31 ←↑↓→/ENTER button
Selects and executes the items or settings.

Rear Panel

1 AUDIO OUT R (right)/L (left) 1/2 connectors (8, 10)
Connect to the audio input connector on your TV or receiver (amplifier).

2 AUDIO IN (L, R) connectors (74)
Connect to the audio output on a Sony CD changer of 5/50/200/300 discs.

3 DIGITAL OUT COAXIAL connector (10, 13)
Connect to an audio component using a coaxial digital connecting cord.

4 DIGITAL OUT OPTICAL connector (10, 13)
Connect to an audio component using an optical digital connecting cord. Take off the cap.

5 VIDEO OUTPUT 1/2 connectors (8)
Connect to the video input connector on your TV or monitor.

6 S VIDEO OUTPUT 1/2 connectors (8, 10, 13)
Connect to the S video input connector on your TV or monitor.

7 COMPONENT VIDEO OUT connectors (9)
Connects to a monitor or projector having component video input connectors (Y, Pb, Pr) that conform to output signals from the player.

8 MEGA CONTROL connector (74)
Connect to the control connector on a Sony CD changer of 5/50/200/300 discs.

9 S-LINK (CONTROL S IN) connector (8)
Connect to the S-LINK (CONTROL S) connector on an external component.
**Remote**

1. **TV/DISC EXPLORER/DVD switch (28, 72, 73)**
   Selects to control the player, the Disc Explorer or the TV with the remote.

2. **▲OPEN/CLOSE button (20)**
   Opens or closes the front cover.

3. **Number/ENTER buttons**
   Selects and executes the items or settings.

4. **CLEAR button (53 through 57)**
   Press to return to continuous play, etc.

5. **PROGRAM button (53)**
   Displays the “PROGRAM” display on the TV screen.

6. **SHUFFLE button (54)**
   Each time you press this button, the “SHUFFLE” setting changes.

7. **I◄／I►IPREV／NEXT (previous/next) buttons (20)**
   Press to go to the next chapter or track, or to go back to the previous chapter or track.

8. **I►／I◄IPLAY button (19)**
   Plays a disc.

9. **DISPLAY button (37)**
   Displays the Control Menu display on the TV screen to set or adjust the Control Menu items.

10. **◄／↑／↓／►／ENTER buttons**
    Selects and executes the items or settings.

11. **Click shuttle (22, 32)**
    Changes the playback speed, or selects characters.

12. **I／（on/standby) button (19)**
    Press to turn on the player or place it in standby mode after power is connected by pressing ① on the player.

13. **VOL +/- buttons (73)**
    When ① is set to DISC EXPLORER or DVD, controls the AV receiver (amplifier) volume.
    When ① is set to TV, controls the TV volume.

14. **CH/DISC SKIP +/- buttons (20, 73)**
    When ① is set to DISC EXPLORER or DVD, searches the discs in the folder (DISC SKIP).
    When ① is set to TV, changes the TV channel (CH).

15. **TV/VIDEO button (73)**
    Switches the TV’s input.

16. **FLIP button (21)**
    Press to turn over the disc.

17. **FOLDER buttons (29)**
    Selects a disc folder.

18. **REPEAT button (56)**
    Each time you press this button, the “REPEAT” setting changes.

19. **PICTURE MEMORY button (65)**
    Press to store a picture in memory.

20. **BOOKMARK button (59)**
    Press to set a bookmark.

21. **ISTOP button (20, 23)**
    Stops playing a disc.

22. **IIPAUSE button (20)**
    Pauses playing a disc.

23. **JOG button and indicator (22)**
    Press to play a disc frame by frame.
24 ANGLE/SORT button (35, 46)
When 1 is set to DVD or TV, changes the angles when playing a DVD (ANGLE).
When 1 is set to DISC EXPLORER, enters the SORT mode (SORT).

25 AUDIO/FILE button (30, 44)
When 1 is set to DVD or TV, changes the sound while playing a DVD or VIDEO CD (AUDIO).
When 1 is set to DISC EXPLORER, enters the FILE mode (FILE).

26 TITLE button (24)
Displays the title menu on the TV screen.

27 DVD MENU button (25)
Displays the DVD menu on the TV screen.

28 WIDE MODE/MEGA button (73, 74)
When 1 is set to TV, switches the wide picture on or off (WIDE MODE).
When 1 is set to DVD or DISC EXPLORER, press to control the connected CD changer (MEGA).

29 TIME/TEXT button (26, 41, 43)
Displays the playing time of the disc, etc., on the front panel display.

30 SUBTITLE/EDIT button (32, 45)
When 1 is set to DVD or TV, displays the SUBTITLE display on the TV screen (SUBTITLE).
When 1 is set to DISC EXPLORER, enters the EDIT mode to label the disc (EDIT).

31 1/ALL DISCS/LOAD button (28, 51)
When 1 is set to DVD or TV, selects 1 DISC or ALL DISCS play mode (1/ALL DISCS).
When 1 is set to DISC EXPLORER, reads the information of the discs loaded in sequence (LOAD).

32 EASY PLAY button (17)
Press to play the EASY PLAY disc or bring the EASY PLAY slot to the loading position.

33 RETURN button (25, 29, 38)
Press to return to the previously selected screen, etc.
### Index

#### Numerics

<table>
<thead>
<tr>
<th>Numeral</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/ALL DISCS</td>
<td>51</td>
</tr>
<tr>
<td>4:3 LETTER BOX</td>
<td>64</td>
</tr>
<tr>
<td>4:3 PAN SCAN</td>
<td>64</td>
</tr>
<tr>
<td>4:3 WIDE MODE</td>
<td>64</td>
</tr>
<tr>
<td>5.1 Channel Surround</td>
<td>12</td>
</tr>
<tr>
<td>16:9</td>
<td>64</td>
</tr>
</tbody>
</table>

#### A

<table>
<thead>
<tr>
<th>Term</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-B REPEAT</td>
<td>56</td>
</tr>
<tr>
<td>ADVANCED</td>
<td>48</td>
</tr>
<tr>
<td>ANGLE</td>
<td>46</td>
</tr>
<tr>
<td>ANGLE VIEWER</td>
<td>57</td>
</tr>
<tr>
<td>AUDIO</td>
<td>43, 63</td>
</tr>
<tr>
<td>AUDIO ATT</td>
<td>70</td>
</tr>
<tr>
<td>AUDIO DRC</td>
<td>70</td>
</tr>
<tr>
<td>AUDIO SETUP</td>
<td>70</td>
</tr>
<tr>
<td>AUTO PLAY</td>
<td>65</td>
</tr>
</tbody>
</table>

#### B

<table>
<thead>
<tr>
<th>Term</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BACKGROUND</td>
<td>64</td>
</tr>
<tr>
<td>Batteries</td>
<td>7</td>
</tr>
<tr>
<td>BOOKMARK</td>
<td>59</td>
</tr>
<tr>
<td>BOOKMARK RESET</td>
<td>66</td>
</tr>
</tbody>
</table>

#### C

<table>
<thead>
<tr>
<th>Term</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD</td>
<td>4, 19</td>
</tr>
<tr>
<td>Chapter</td>
<td>5, 40, 80</td>
</tr>
<tr>
<td>CHAPTER</td>
<td>40</td>
</tr>
<tr>
<td>CHAPTER VIEWER</td>
<td>57</td>
</tr>
<tr>
<td>Connecting</td>
<td>8, 10, 12</td>
</tr>
<tr>
<td>Continuous play</td>
<td></td>
</tr>
<tr>
<td>Control Menu display</td>
<td>37</td>
</tr>
<tr>
<td>CUSTOM PARENTAL</td>
<td></td>
</tr>
<tr>
<td>CONTROL</td>
<td>49</td>
</tr>
<tr>
<td>CUSTOM SETUP</td>
<td>65</td>
</tr>
</tbody>
</table>

#### D

<table>
<thead>
<tr>
<th>Term</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIGITAL OUT</td>
<td>70</td>
</tr>
<tr>
<td>Digital output</td>
<td>10, 70</td>
</tr>
<tr>
<td>DIMMER</td>
<td>26, 65</td>
</tr>
<tr>
<td>DISC</td>
<td>40</td>
</tr>
<tr>
<td>Disc Explorer</td>
<td>28</td>
</tr>
<tr>
<td>Disc Memo</td>
<td>32</td>
</tr>
<tr>
<td>Display</td>
<td></td>
</tr>
<tr>
<td>Control Menu display</td>
<td>37</td>
</tr>
<tr>
<td>Front panel display</td>
<td>26</td>
</tr>
<tr>
<td>Setup display</td>
<td>60</td>
</tr>
<tr>
<td>DOLBY DIGITAL</td>
<td>10, 71</td>
</tr>
<tr>
<td>DOWNMIX</td>
<td>70</td>
</tr>
<tr>
<td>DTS</td>
<td>12, 71</td>
</tr>
<tr>
<td>DVD</td>
<td>19</td>
</tr>
<tr>
<td>DVD menu</td>
<td>24</td>
</tr>
<tr>
<td>DVD MENU</td>
<td>63</td>
</tr>
</tbody>
</table>

#### E

<table>
<thead>
<tr>
<th>Term</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EASY PLAY</td>
<td>17</td>
</tr>
<tr>
<td>EDIT</td>
<td>32</td>
</tr>
</tbody>
</table>

#### F

<table>
<thead>
<tr>
<th>Term</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fast Forward</td>
<td>22</td>
</tr>
<tr>
<td>Fast Rewind</td>
<td>22</td>
</tr>
<tr>
<td>FILE</td>
<td>30</td>
</tr>
<tr>
<td>Folder</td>
<td>29, 30</td>
</tr>
<tr>
<td>Front panel display</td>
<td>26</td>
</tr>
</tbody>
</table>

#### G

<table>
<thead>
<tr>
<th>Term</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENRE</td>
<td>34</td>
</tr>
</tbody>
</table>

#### H

<table>
<thead>
<tr>
<th>Term</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handling discs</td>
<td>6</td>
</tr>
<tr>
<td>Hooking up</td>
<td>8, 10, 12</td>
</tr>
</tbody>
</table>

#### I

<table>
<thead>
<tr>
<th>Term</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Index</td>
<td>5, 40</td>
</tr>
<tr>
<td>INDEX</td>
<td>40</td>
</tr>
</tbody>
</table>

#### J

<table>
<thead>
<tr>
<th>Term</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jacket Picture</td>
<td>29, 64</td>
</tr>
</tbody>
</table>

#### K

<table>
<thead>
<tr>
<th>Term</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keyboard</td>
<td>34</td>
</tr>
</tbody>
</table>

#### L

<table>
<thead>
<tr>
<th>Term</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LANGUAGE SETUP</td>
<td>63</td>
</tr>
<tr>
<td>LETTER BOX</td>
<td>64</td>
</tr>
<tr>
<td>Locating</td>
<td></td>
</tr>
<tr>
<td>a specific point</td>
<td>22</td>
</tr>
<tr>
<td>by watching the TV screen</td>
<td>22</td>
</tr>
</tbody>
</table>

#### M, N

<table>
<thead>
<tr>
<th>Term</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEGA CONTROL</td>
<td>74</td>
</tr>
</tbody>
</table>

#### O

<table>
<thead>
<tr>
<th>Term</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>On-screen display</td>
<td></td>
</tr>
<tr>
<td>Control Menu display</td>
<td>37</td>
</tr>
<tr>
<td>Setup display</td>
<td>60</td>
</tr>
<tr>
<td>OSD</td>
<td>63</td>
</tr>
</tbody>
</table>

#### P, Q

<table>
<thead>
<tr>
<th>Term</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAN SCAN</td>
<td>64</td>
</tr>
<tr>
<td>PARENTAL CONTROL</td>
<td>66</td>
</tr>
<tr>
<td>PAUSE MODE</td>
<td>65</td>
</tr>
<tr>
<td>PBC functions</td>
<td>25</td>
</tr>
<tr>
<td>PBC Playback</td>
<td>25, 81</td>
</tr>
<tr>
<td>PICTURE MEMORY</td>
<td>64</td>
</tr>
<tr>
<td>PLAYBACK MEMORY</td>
<td>69</td>
</tr>
<tr>
<td>PRO LOGIC</td>
<td>71</td>
</tr>
<tr>
<td>PROGRAM</td>
<td>52</td>
</tr>
<tr>
<td>Program Play</td>
<td>52</td>
</tr>
</tbody>
</table>

#### R

<table>
<thead>
<tr>
<th>Term</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote</td>
<td>7, 72</td>
</tr>
<tr>
<td>REPEAT</td>
<td>55</td>
</tr>
<tr>
<td>Resume Play</td>
<td>23</td>
</tr>
</tbody>
</table>

#### S

<table>
<thead>
<tr>
<th>Term</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-Link</td>
<td>8</td>
</tr>
<tr>
<td>S video output</td>
<td>8, 10, 13</td>
</tr>
<tr>
<td>Scene</td>
<td>5</td>
</tr>
<tr>
<td>SCENE</td>
<td>40</td>
</tr>
<tr>
<td>SCREEN SAVER</td>
<td>64</td>
</tr>
<tr>
<td>SCREEN SETUP</td>
<td>64</td>
</tr>
<tr>
<td>Searching</td>
<td></td>
</tr>
<tr>
<td>Setup display</td>
<td>60</td>
</tr>
<tr>
<td>SHUFFLE</td>
<td>54</td>
</tr>
<tr>
<td>Shuffle Play</td>
<td>54</td>
</tr>
<tr>
<td>Side B</td>
<td>21</td>
</tr>
<tr>
<td>Slow-motion Play</td>
<td>22</td>
</tr>
<tr>
<td>SORT</td>
<td>35</td>
</tr>
<tr>
<td>STARTUP SCREEN</td>
<td>64</td>
</tr>
<tr>
<td>STROBE PLAYBACK</td>
<td>57</td>
</tr>
<tr>
<td>SUBTITLE</td>
<td>45</td>
</tr>
</tbody>
</table>

#### T

<table>
<thead>
<tr>
<th>Term</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIME/MEMO</td>
<td>41, 42, 43</td>
</tr>
<tr>
<td>TIME/TEXT</td>
<td>41, 42, 43</td>
</tr>
<tr>
<td>Title</td>
<td>5, 40, 81</td>
</tr>
<tr>
<td>TITLE</td>
<td>40</td>
</tr>
<tr>
<td>Title menu</td>
<td>24</td>
</tr>
<tr>
<td>TITLE VIEWER</td>
<td>57</td>
</tr>
<tr>
<td>Track</td>
<td>5, 40, 81</td>
</tr>
<tr>
<td>TRACK</td>
<td>40</td>
</tr>
<tr>
<td>TRACK SELECTION</td>
<td>69</td>
</tr>
<tr>
<td>TRACK VIEWER</td>
<td>57</td>
</tr>
<tr>
<td>Troubleshooting</td>
<td>76</td>
</tr>
<tr>
<td>TV TYPE</td>
<td>64</td>
</tr>
</tbody>
</table>

#### U

<table>
<thead>
<tr>
<th>Term</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Usable discs</td>
<td>4</td>
</tr>
</tbody>
</table>

#### V, W, X, Y, Z

<table>
<thead>
<tr>
<th>Term</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VES</td>
<td>47</td>
</tr>
<tr>
<td>VIDEO CD</td>
<td>4, 19</td>
</tr>
<tr>
<td>VIEWER</td>
<td>57</td>
</tr>
</tbody>
</table>