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

Caution – The use of optical instruments with this product will increase eye hazard.

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.
Batteries or batteries installed apparatus shall not be exposed to excessive heat such as sunshine, fire or the like.
In door use only.

This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

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

Owner’s Record
The model and serial numbers are located at the rear exterior of the control 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. DAV-HDZ273
Serial No.______________

The following FCC statement applies only to the version of this model manufactured for sale in the USA. Other versions may not comply with FCC technical regulations.

WARNING
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 (aerial).
– 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.

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

Important Safety Instructions
1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Note to CATV system installer:
This reminder is provided to call the CATV system installer’s attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Precautions

On power sources
• The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet (mains), even if the unit itself has been turned off.
• Install this system so that the AC power cord (mains lead) can be unplugged from the wall socket immediately in the event of trouble.

About This Operating Instructions

• The instructions in this Operating Instructions describe the controls on the remote. You can also use the controls on the unit if they have the same or similar names as those on the remote.
• The Control Menu items may vary depending on the area.
• “DVD” may be used as a general term for a DVD VIDEO, DVD+RW/DVD+R, and DVD-RW/DVD-R.
• Measurements are expressed in feet (ft) for North American models.
• The default setting is underlined.
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<th>Type</th>
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<th>Icon</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVD VIDEO</td>
<td><img src="image1" alt="DVD Video Logo" /></td>
<td>• DVD VIDEO&lt;br&gt;• DVD-R/DVD-RW in DVD VIDEO format or video mode&lt;br&gt;• DVD+R/DVD+RW in DVD VIDEO format</td>
<td><img src="image2" alt="DVD-V" /></td>
</tr>
<tr>
<td>VR (Video Recording) mode</td>
<td><img src="image3" alt="DVD VR Logo" /></td>
<td>• DVD-R/DVD-RW in VR (Video Recording) mode (except for DVD-R DL)</td>
<td><img src="image4" alt="DVD-VR" /></td>
</tr>
<tr>
<td>Super Audio CD</td>
<td><img src="image5" alt="Super Audio CD Logo" /></td>
<td>• Super Audio CD</td>
<td><img src="image6" alt="Super Audio CD" /></td>
</tr>
<tr>
<td>VIDEO CD</td>
<td><img src="image7" alt="Video CD Logo" /></td>
<td>• VIDEO CD (Ver. 1.1 and 2.0 discs)&lt;br&gt;• Super VCD&lt;br&gt;• CD-R/CD-RW/CD-ROM in video CD format or Super VCD format</td>
<td><img src="image8" alt="VIDEO CD" /></td>
</tr>
<tr>
<td>CD</td>
<td><img src="image9" alt="CD Logo" /></td>
<td>• Audio CD&lt;br&gt;• CD-R/CD-RW in audio CD format</td>
<td><img src="image10" alt="CD" /></td>
</tr>
<tr>
<td>DATA CD</td>
<td>–</td>
<td>• CD-R/CD-RW/CD-ROM in DATA CD format, containing MP3 files&lt;sup&gt;1&lt;/sup&gt; and JPEG image files&lt;sup&gt;2&lt;/sup&gt;, and conforming to ISO 9660&lt;sup&gt;3&lt;/sup&gt; Level 1/Level 2, or Joliet (extended format)</td>
<td><img src="image11" alt="DATA-CD" /></td>
</tr>
<tr>
<td>DATA DVD</td>
<td>–</td>
<td>• DVD-ROM/DVD-R/DVD-RW/DVD+R/DVD+RW in DATA DVD format, containing MP3 files&lt;sup&gt;1&lt;/sup&gt; and JPEG image files&lt;sup&gt;2&lt;/sup&gt;, and conforming to UDF (Universal Disk Format)</td>
<td><img src="image12" alt="DATA DVD" /></td>
</tr>
</tbody>
</table>

<sup>1</sup>MP3 (MPEG1 Audio Layer 3) is a standard format defined by ISO/MPEG which compresses audio data. MP3 files must be in MPEG1 Audio Layer 3 format.
2) JPEG image files must conform to the DCF image file format. (DCF “Design rule for Camera File system”: Image standards for digital cameras regulated by Japan Electronics and Information Technology Industries Association (JEITA).)

3) A logical format of files and folders on CD-ROMs, defined by ISO (International Organization for Standardization).

“DVD-RW,” “DVD+RW,” “DVD+R,” “DVD VIDEO,” and the “CD” logos are trademarks.

Example of discs that the system cannot play

The system cannot play the following discs:
• CD-ROM/CD-R/CD-RW other than those recorded in the formats listed on page 5
• CD-ROM recorded in PHOTO CD format
• Data part of CD-Extra
• CD Graphics disc
• DVD Audio
• DATA DVD that does not contain MP3 files or JPEG image files
• DVD-RAM

Also, the system cannot play the following discs:
• A DVD VIDEO with a different region code (page 7)
• A disc that has a non-standard shape (e.g., card, heart)
• A disc with paper or stickers on it
• A disc that has the adhesive of cellophane tape or a sticker still left on it

Note about CD-R/CD-RW/DVD-R/DVD-RW/DVD+R/DVD+RW

In some cases, CD-R/CD-RW/DVD-R/DVD-RW/DVD+R/DVD+RW cannot be played on this system due to the recording quality or physical condition of the disc, or the characteristics of the recording device and authoring software.

The disc will not play if it has not been correctly finalized. For more information, refer to the operating instructions for the recording device.

Note that some playback functions may not work with some DVD+RWs/DVD+Rs, even if they have been correctly finalized. In this case, view the disc by normal playback. Also some DATA CDs/DATA DVDs created in Packet Write format cannot be played.

Music discs encoded with copyright protection technologies

This product is designed to play back discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

Note on DualDiscs

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

• This system can play a Multi Session CD when an MP3 file is contained in the first session. Any subsequent MP3 files recorded in later sessions can also be played back.
• This system can play a Multi Session CD when a JPEG image file is contained in the first session. Any subsequent JPEG image files recorded in later sessions can also be played back.
• If MP3 files and JPEG image files in music CD format or video CD format are recorded in the first session, only the first session will be played back.

Region code

Your system has a region code printed on the rear of the unit and will only play a DVD labeled with the same region code.

A DVD VIDEO labeled will also play on this system. If you try to play any other DVD VIDEO, the message [Playback prohibited by area limitations.] will appear on the TV screen. Depending on the DVD VIDEO, no region code indication may be given even though playing the DVD VIDEO is prohibited by area restrictions.

Note about playback operations of a DVD or VIDEO CD

Some playback operations on a DVD or VIDEO CD may be intentionally set by software producers. Since this system will play a DVD or VIDEO CD according to the disc contents the software producers designed, some playback features may not be available. Be sure to read the operating instructions supplied with the DVD or VIDEO CD.

Copyrights

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

This system incorporates with Dolby* Digital and Dolby Pro Logic (II) adaptive matrix surround decoder and the DTS** Digital Surround System.

* Manufactured under license from Dolby Laboratories.
  “Dolby”, “Pro Logic”, and the double-D symbol are trademarks of Dolby Laboratories.
** Manufactured under license from DTS, Inc.
  “DTS” and “DTS Digital Surround” are registered trademarks of DTS, Inc.

This system incorporates High-Definition Multimedia Interface (HDMI™) technology. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

“BRAVIA” and BRAVIA are trademarks of Sony Corporation.
Getting Started

Unpacking

- Front speakers (2) and surround speakers (2)
- Center speaker (1)
- Subwoofer (1)
- AM loop antenna (aerial) (1)
- FM wire antenna (aerial) (1)
- Speaker cords (6, red/white/green/gray/blue/purple)
- Video cord (1)
- Remote commander (remote) (1)
- R6 (size AA) batteries (2)
- Calibration mic (1)
- Foot pads (1 set)
- DIGITAL MEDIA PORT adapter (TDM-iP10) (1)
- Operating Instructions
- Speaker and TV connections (card)
Inserting batteries into the remote
Insert two R6 (size AA) batteries (supplied) by matching the + and − ends on the batteries to the markings inside the compartment. To use the remote, point it at the remote sensor A on the unit.

Note
• Do not leave the remote in an extremely hot or humid place.
• Do not use a new battery with an old one.
• 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 apparatus. Doing so may cause a malfunction.
• If you do not intend to use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

Attaching the foot pads to the subwoofer
Attach the foot pads (supplied) to the bottom of the subwoofer to stabilize the subwoofer and prevent it from slipping.

Remove the foot pads from the mount seat.
**Step 1: Positioning the System**

For the best possible surround sound, all the speakers other than the subwoofer should be placed at the same distance from the listening position (A).

However, this system allows you to place the center speaker up to 1.5 meters (5 ft) closer (B) and the surround speakers up to 4.8 meters (16 ft) closer (C) to the front speakers. The front speakers can be placed from 0.9 to 6.9 meters (3 to 23 ft) (A) from the listening position.

Place the system as illustrated below.

---

**Note**
- Do not set the speakers in an inclined position.
- Do not place the speakers in locations that are:
  - Extremely hot or cold
  - Dusty or dirty
  - Very humid
  - Subject to vibrations
  - Subject to direct sunlight
- Use caution when placing the speakers and/or speaker stands attached to the speakers on a specially treated (waxed, oiled, polished, etc.) floor, as staining or discoloration may result.
- Do not use any type of abrasive pad, scouring powder, or solvent such as alcohol or benzine.
- Do not lean or hang on the speaker, as the speaker may fall down.

---

**Tip**
- When you change the positions of the speakers, Sony recommends that you change the settings. For details, see “Getting Optimal Surround Sound for a Room” (page 60) and “Calibrating the Appropriate Settings Automatically” (page 61).
To install the speakers on a wall
Before installing the speakers on a wall, connect the speaker cord to the speaker. Be sure to match the speaker cords to the appropriate terminals on the speakers: the speaker cord with the color tube to $\oplus$, and the speaker cord without the color tube to $\ominus$.

1. Prepare screws (not supplied) that are suitable for the hole on the back of each speaker. See the illustrations below.

2. Fasten the screws to the wall.

   - **For the center speaker**

   - **For the other speakers**

3. Hang the speakers on the screws.

   - **For the center speaker**

   - **For the other speakers**
Note

- Use screws that are suitable for the wall material and strength. As a plaster board wall is especially fragile, attach the screws securely to a beam and fasten them to the wall. Install the speakers on a vertical and flat wall where reinforcement is applied.
- Contact a screw shop or installer regarding the wall material or screws to be used.
- Sony is not responsible for accident or damage caused by improper installation, insufficient wall strength or improper screw installation, natural calamity, etc.
Step 2: Connecting the System

See the connection diagram below, and read the additional information from ① to ⑤ on the following pages.

**Note**

- Be sure to make connections securely to avoid hum and noise.
- When you connect another component with a volume control, turn up the volume of the other components to a level where sound is not distorted.
The connector and color tube of the speaker cords are the same color as the label of the jacks to be connected. Be sure to match the speaker cords to the appropriate terminals on the speakers: the speaker cord with the color tube to (+), and the speaker cord without the color tube to (–). Do not catch the speaker cord insulation in the speaker terminals.

When connecting to the unit, insert the connector until it clicks.
Use the parts as follows:

- Video cord (1)

To listen to TV sound from the six speakers of the system, connect the TV and the system with the audio cord (not supplied) (A).

For video output to your TV, check the video input jacks of the TV, and select connection method A, B, or C. Picture quality improves in order from A (standard) to C (HDMI).

When the TV has the digital optical or coaxial output jack, you can improve sound quality by connecting with the digital cord (B).

* If your TV accepts progressive format signals, use this connection and set the output signal of the system to progressive format (page 23).
**HDMI (High-Definition Multimedia Interface)**

If your TV has the HDMI jack, use this connection and select the type of output signal (page 23).

**Note**
- During the “DMPORT” function, video signal is not output from the HDMI OUT and COMPONENT VIDEO OUT jacks.
- The system can accept both digital and analog signals. Digital signals have priority over analog signals. (COAXIAL has priority over OPTICAL.) If the digital signal ceases, the analog signal will be processed after 2 seconds.

**Tip**
- You can connect another component, such as a VCR, digital satellite receiver, or PlayStation, to the TV/VIDEO jacks (A or B) instead of the TV.
### Connecting the other components

You can enjoy the connected component using the six speakers of the system.
- Portable audio source: A
- DIGITAL MEDIA PORT adapter: B

#### To connect the DIGITAL MEDIA PORT adapter

Connect a DIGITAL MEDIA PORT adapter (TDM-iP10 is supplied) to the DMPORT jack. For details, see “Using the DIGITAL MEDIA PORT Adapter” (page 59).

**Note**
- Connect the DIGITAL MEDIA PORT adapter so that the ▼ marks are aligned. When disconnecting, pull out while pressing A.
If your TV has multiple audio/video inputs

You can enjoy the sound with the speakers of the system through the connected TV. Connect the components as follows.

Select the component on the TV. For details, refer to the operating instructions of the TV.

If the TV does not have multiple audio/video inputs, a switcher will be necessary to receive the sound from more than two components.
Connecting the antenna (aerial)

- Keep the AM loop antenna (aerial) and cord away from the system or other AV components, as noise may result.
- Be sure to fully extend the FM wire antenna (aerial).
- After connecting the FM wire antenna (aerial), keep it as horizontal as possible.

Tip
- Adjust the direction of the AM loop antenna (aerial) for best AM broadcast sound.
- If you have poor FM reception, use a 75-ohm coaxial cable (not supplied) to connect the unit to an outdoor FM antenna (aerial) as shown below.
Connecting the AC power cord (mains lead)

Before connecting the AC power cord (mains lead) of the unit to a wall outlet (mains), connect all the speakers to the unit.

After connecting the AC power cord (mains lead), the demonstration appears in the front panel display.

About the demonstration

After connecting the AC power cord (mains lead), the demonstration appears in the front panel display.

Setting the demonstration mode to on/off

1. Press I(✓) on the unit.
   The system turns on.

2. Press SYSTEM MENU.

3. Press ↑/↓ repeatedly until “DEMO” appears in the front panel display, then press ◀ or →.

4. Press ↑/↓ to select a setting.
   - “DEMO ON”: On.
   - “DEMO OFF”: Off.

5. Press ◀.
   The setting is made.

6. Press SYSTEM MENU.
   The system menu turns off.

To

- When you purchase the system from new, or if the system is at its factory default settings (ex., after performing “COLD RESET” (page 66)), you can turn off the demonstration simply by pressing I(✓) on the remote.
Step 3: Performing the Quick Setup

Follow the Steps below to make the basic adjustments for using the system. Displayed items vary depending on the country model.

Note
• When you connect the system and the TV with the component video cord (not supplied) or HDMI cable (not supplied), you need to set the type of video output for matching your TV. For details, see “Setting the type of video output to match your TV” (page 23).

1 Turn on the TV.

2 Press I/Ô.

Note
• Make sure that the function is set to “DVD” (page 24).

3 Switch the input selector on your TV so that the signal from the system appears on the TV screen.

[Press [ENTER] to run QUICK SETUP.] appears at the bottom of the TV screen. If this message does not appear, recall the Quick Setup display (page 22) and perform again.

4 Press ○ without inserting a disc.

The Setup Display for selecting the language used in the on-screen display appears.

5 Press ↑/↓ to select a language.

The system displays the menu and subtitles in the selected language.

6 Press ◎.

The Setup Display for selecting the aspect ratio of the TV to be connected appears.

7 Press ↑/↓ to select the setting that matches your TV type.

■ If you have a wide-screen TV or a 4:3 standard TV with a wide-screen mode [16:9] (page 46)

■ If you have a 4:3 standard TV [4:3 LETTER BOX] or [4:3 PAN SCAN] (page 46)

8 Press ◎.

The Setup Display for selecting the speaker formation appears.

9 Press ←/→ to select the speaker formation image as the speakers are actually positioned.

For details, see “Getting Optimal Surround Sound for a Room” (page 60).
10 Press \(\Box\) .

11 Connect the calibration mic to the A.CAL MIC jack on the front panel.

Set up the calibration mic at the ear level using a tripod, etc. (not supplied). The front of each speaker should face the calibration mic, and there should be no obstruction between the speakers and the calibration mic.

![Calibration mic diagram]

12 Press \(\leftrightarrow\) to select [YES].

**Note**
- Make sure that the headphones are not connected to the unit. You cannot operate following Steps with the headphones connected.

13 Press \(\bigcirc\) .

[Auto Calibration] starts.

Be quiet during the measurement.

**Note**
- Loud test sound is output when [Auto Calibration] starts. You cannot turn the volume down. Give consideration to children and neighbors.
- Avoid being in the measurement area and making noise during the measurement (which takes about 3 minutes), as it may interfere with measurement.

14 Unplug the calibration mic and press \(\leftrightarrow/\rightarrow\) to select [YES].

**Note**
- The environment of the room in which the system is installed may affect measurements.
- If measurement fails, follow the message then retry [Auto Calibration].

15 Press \(\bigcirc\) .

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

To quit the Quick Setup

Press \(\Box\) DISPLAY in any Step.

**Tip**
- If you change the position of the speakers, reset the speaker settings. See “Getting Optimal Surround Sound for a Room” (page 60) and “Calibrating the Appropriate Settings Automatically” (page 61).
- If you want to change any of the settings, see “Using the Setup Display” (page 45).

To recall the Quick Setup display

1 Press FUNCTION +/- repeatedly until “DVD” appears in the front panel display.

2 Press \(\Box\) DISPLAY while the system is in stop mode.

The Control Menu display appears on the TV screen.

3 Press \(\uparrow/\downarrow\) to select \(\bigcirc\) [SETUP], then press \(\bigcirc\).

The options for [SETUP] appear.
4 Press ‡/+ to select [QUICK], then press ◎.

The Quick Setup display appears.

## Setting the type of video output to match your TV

Depending on the connection of the TV (page 15), select the type of video output of the system.

### To select the type of video signal output from the HDMI OUT jack

When you connect the unit and the TV with the HDMI cable, select the type of video signals output from the HDMI OUT jack. For details, refer also to the operating instructions supplied with the TV/projector, etc.

1 Press FUNCTION +/- repeatedly until “DVD” appears in the front panel display.

2 Press ◎ DISPLAY while the system is in stop mode.

The Control Menu display appears on the TV screen.

3 Press ‡/+ to select [SETUP], then press ◎.

The options for [SETUP] appear.

4 Press ‡/+ to select [CUSTOM], then press ◎.

The Setup Display appears.

5 Press ‡/+ to select [HDMI SETUP], then press ◎.

The options for [HDMI SETUP] appear.

6 Press ‡/+ to select [HDMI RESOLUTION], then press ◎.

7 Press ‡/+ to select the desired setting, then press ◎.

   • [AUTO (1920 × 1080p)]: The system outputs the optimal video signal for the connected TV.
   • [1920 × 1080i]: The system outputs 1920 × 1080i* video signals.
   • [1280 × 720p]: The system outputs 1280 × 720p* video signals.
   • [720 × 480p]**: The system outputs 720 × 480p* video signals.

   * i: interlace, p: progressive
   ** Depending on the country model, [720 × 576p] may appear.

### Does your TV accept progressive signals?

Progressive is the method for displaying TV images which reduces flickering and sharpens the image. To use this method, you need to connect to a TV that accepts progressive signals.

1 Press FUNCTION +/- repeatedly until “DVD” appears in the front panel display.

2 Press ◎ DISPLAY while the system is in stop mode.

The Control Menu display appears on the TV screen.

3 Press ‡/+ to select [SETUP], then press ◎.

The options for [SETUP] appear.

4 Press ‡/+ to select [CUSTOM], then press ◎.

The Setup Display appears.

5 Press ‡/+ to select [VIDEO SETUP], then press ◎.

The options for [VIDEO SETUP] appear.

6 Press ‡/+ to select [PROGRESSIVE (COMPONENT OUT)], then press ◎.

7 Press ‡/+ to select the desired setting, then press ◎.

   [OFF]: The system does not output progressive signals. Select this setting when:
   – your TV does not accept progressive signals, or,
   – your TV is connected to jacks other than the COMPONENT VIDEO OUT jacks.
   [ON]: The system outputs progressive signals. Select this setting when:
   – your TV accepts progressive signals, and,
   – the TV is connected to the COMPONENT VIDEO OUT jacks.
When you select [ON], the confirmation display appears. Follow the Steps below.

8 Press  to select [START], then press .
The system outputs the progressive signal for 5 seconds. Check that the screen is displayed correctly.

9 Press  to select [YES], then press .
The system outputs the progressive signal. When you select [NO], the system does not output the progressive signal.

Step 4: Enjoying Sound from all the Speakers

You can enjoy DVD, TV, or VCR sound from all the speakers in this system.

1 Press FUNCTION +/- repeatedly until the desired function appears in the front panel display.

Each time you press FUNCTION +/-, the function changes as follows.

“DVD” → “TUNER FM” → “TUNER AM” → “TV/VIDEO” → “DMPORT” → “AUDIO” → …

<table>
<thead>
<tr>
<th>Function</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>“DVD”</td>
<td>Disc that is played by the system</td>
</tr>
<tr>
<td>“TUNER FM”/</td>
<td>FM/AM radio (page 53)</td>
</tr>
<tr>
<td>“TUNER AM”</td>
<td></td>
</tr>
<tr>
<td>“TV/VIDEO”</td>
<td>TV (or the component that is connected to the TV/VIDEO jacks on the rear panel)</td>
</tr>
<tr>
<td>“DMPORT”</td>
<td>DIGITAL MEDIA PORT adapter (page 59)</td>
</tr>
<tr>
<td>“AUDIO”</td>
<td>Portable audio source (that is connected to the AUDIO IN jack on the front panel)</td>
</tr>
</tbody>
</table>
Getting Started

When you use both the TV/VIDEO (AUDIO IN) jacks (analog connection) and TV/VIDEO (COAXIAL or OPTICAL DIGITAL IN) jack (digital connection) at the same time, the digital connection takes priority.

1. Press FUNCTION +/– repeatedly until “TV/VIDEO” or “AUDIO” appears in the front panel display.
2. Press SYSTEM MENU.
3. Press ↑/↓ repeatedly until “DEC. MODE” appears in the front panel display, then press ◄ or ►.
4. Press ↑/↓ repeatedly until the decoding mode you want appears in the front panel display.
   When you want to output the TV sound or stereo sound of a 2 channel source from the six speakers, select the “PRO LOGIC,” “PLII MOVIE,” or “PLII MUSIC” decoding mode.
   For details, see page 26.
5. Press ◄.
   The setting is made.
6. Press SYSTEM MENU.
   The system menu turns off.

Note
- Depending on your TV, you may need to turn off your TV’s speaker to enjoy surround sound of the system.

Tip
- When listening to audio files using a portable audio source, you can enhance the sound.
  Press FUNCTION +/– to select “AUDIO.” Connect the portable audio source. Select “A.F.D. STD” for “DEC. MODE.”
  To cancel, select other than “A.F.D. STD.”

Changing the input level of the sound from connected components

Distortion may occur when you listen to a component connected to the TV/VIDEO jacks on the rear panel, or to the AUDIO IN jack on the front panel. Distortion is not a malfunction and will depend on the component connected. To prevent distortion, reduce the input level on the unit.

1. Press FUNCTION +/– repeatedly until “TV/VIDEO” or “AUDIO” appears in the front panel display.
2. Press SYSTEM MENU.
3. Press ↑/↓ repeatedly until “ATTENUATE” appears in the front panel display, then press ◄ or ►.
4. Press ↑/↓ to select a setting.
   - “ATT ON”: You can attenuate the input level. The output level is changed.
   - “ATT OFF”: Normal input level.
5. Press ◄.
   The setting is made.
6. Press SYSTEM MENU.
   The system menu turns off.

1. Press FUNCTION +/– repeatedly until “TV/VIDEO” or “AUDIO” appears in the front panel display.
2. Press SYSTEM MENU.
3. Press ↑/↓ repeatedly until “ATTENUATE” appears in the front panel display, then press ◄ or ►.
4. Press ↑/↓ to select a setting.
   - “ATT ON”: You can attenuate the input level. The output level is changed.
   - “ATT OFF”: Normal input level.
5. Press ◄.
   The setting is made.
Enjoying Surround Sound by Using Decoding Mode

You can enjoy surround sound simply by selecting one of the system’s pre-programmed decoding modes. They bring exciting and powerful sound of movie theaters into your home.

1. Press SYSTEM MENU.
2. Press ↑/↓ repeatedly until “DEC. MODE” appears in the front panel display, then press ⊕ or →.
3. Press ↑/↓ repeatedly until the decoding mode you want appears in the front panel display.

<table>
<thead>
<tr>
<th>Display</th>
<th>Decoding mode</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>“A.F.D. STD”</td>
<td>AUTO FORMAT DIRECT</td>
<td>Presents sound as it was recorded/encoded. Depending on the source, the speakers that output sound will vary.</td>
</tr>
<tr>
<td></td>
<td>STANDARD</td>
<td></td>
</tr>
<tr>
<td>“A.F.D. MULTI”</td>
<td>AUTO FORMAT DIRECT</td>
<td>2 channel source: Sound that is recorded in 2 channel (front left and right channel) is also assigned to the surround left and right channel. This mode outputs sound from the front left and right speakers, surround left and right speakers, and subwoofer. The center speaker does not output any sound. Multi channel source: Depending on the source, speakers that output the sound will vary.</td>
</tr>
<tr>
<td></td>
<td>MULTI</td>
<td></td>
</tr>
<tr>
<td>“PRO LOGIC”</td>
<td>Dolby Pro Logic</td>
<td>Performs Pro Logic decoding to the input signal and simulates surround sound from 2 channel sources. This mode outputs sound from all the speakers and subwoofer. Sound may not be output from all speakers depending on the source.</td>
</tr>
</tbody>
</table>
### Sound Adjustment

**Display** | **Decoding mode** | **Effect**
--- | --- | ---
“PLII MOVIE” | Dolby Pro Logic II MOVIE | Performs Pro Logic II movie mode decoding to the input signal and produces five full-bandwidth output channels from 2 channel sources. This setting is ideal for watching videos of overdubbed or old movies. This mode outputs sound from all the speakers and subwoofer. Sound may not be output from all speakers depending on the source.

“PLII MUSIC” | Dolby Pro Logic II MUSIC | Performs Pro Logic II music mode decoding to the input signal and produces five full-bandwidth output channels from 2 channel sources. This setting is ideal for normal stereo sources such as a CD. This mode outputs sound from all the speakers and subwoofer. Sound may not be output from all speakers depending on the source.

“2CH STEREO” | 2 CHANNEL STEREO | Outputs the sound from the front left and right speakers and subwoofer. Multi channel surround formats are downmixed to 2 channels.

“HP 2CH” | HEADPHONE 2 CHANNEL STEREO | Outputs the sound from headphone left and right. Multi channel surround formats are downmixed to 2 channels.

“HP VIRTUAL” | HEADPHONE VIRTUAL | Outputs the sound as surround from headphone left and right. This mode is effective only when a multi channel source is played.

### 4 Press \(\bigcirc\).
The setting is made.

### 5 Press SYSTEM MENU.
The system menu turns off.

**To turn the surround effect off**

Select “A.F.D. STD” or “2CH STEREO” for “DEC. MODE.”

**Note**

- When the input signal is multi channel source, “PRO LOGIC,” “PLII MOVIE,” and “PLII MUSIC” are canceled and the multi channel source is output directly.
- When the bilingual broadcast sound is input, “PRO LOGIC,” “PLII MOVIE,” and “PLII MUSIC” are not effective.
- Depending on the input stream, the decoding mode may not be effective.
- When you select “A.F.D. MULTI,” the surround or stereo effect may not be effective. In this case, select “A.F.D. STD,” “PRO LOGIC,” “PLII MOVIE,” or “PLII MUSIC.”
**Selecting the Sound Mode**

You can select a suitable sound mode for movies or music.

Press **SOUND MODE** repeatedly during playback until the desired mode appears in the front panel display.

- **“AUTO”**: The system selects “MOVIE” or “MUSIC” automatically to produce the sound effect depending on the disc.
- **“MOVIE”**: The system provides the sound for movies.
- **“MUSIC”**: The system provides the sound for music.

**Note**

- You cannot operate these setup items when you connect headphones to the unit.

---

**Enjoying Multiplex Broadcast Sound**

(DUAL MONO)

You can enjoy multiplex broadcast sound when the system receives or plays the Dolby Digital multiplex broadcast signal.

**Note**

- To receive the Dolby Digital signal, you need to connect a TV or other component to the unit with an optical or coaxial digital cord (page 15) and set the digital output mode of the TV or other component to Dolby Digital.

Press **AUDIO** repeatedly until the desired signal appears in the front panel display.

- **“MAIN”**: Sound of the main language will be output.
- **“SUB”**: Sound of the sub language will be output.
- **“MAIN+SUB”**: Mixed sound of both the main and sub languages will be output.
Playing a Disc

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

1. Turn on your TV.
2. Switch the input selector on the TV to this system.
3. Press I/●. The system turns on. Unless the system is set to “DVD,” press FUNCTION +/– to select “DVD.”
4. Press ▼. 
5. Load a disc.

Place one disc on the tray, and then press ▼.

6. Press ▶. The system starts playback (continuous play).
7. Adjust the volume by using VOLUME +/- on the remote or the VOLUME control on the unit. The volume level appears on the TV screen and in the front panel display.

- Depending on the system status, the volume level may not appear on the TV screen.
- When you set the Control for HDMI function to on, the TV that is connected to the system with an HDMI cable (not supplied) can be sync-operated with the system. For details, see “Using the Control for HDMI Function for “BRAVIA” Sync” (page 56).

To turn the system off
Press I/● while the system is on. The system enters standby mode.

To save power in standby mode
Press I/● while the system is on. To enter power saving mode, make sure that the system is in the following status.
- “DEMO” is set to “OFF” (page 20).
- [CONTROL FOR HDMI] is set to [OFF] (page 56).

To use the headphones
Connect the headphones to PHONES jack on the unit. The sound of the system is muted.
### Other operations

<table>
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<tr>
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<th>Press</th>
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<tbody>
<tr>
<td>Stop</td>
<td>■</td>
</tr>
<tr>
<td>Pause</td>
<td>■</td>
</tr>
<tr>
<td>Resume play after pause</td>
<td>■ or ▶</td>
</tr>
<tr>
<td>Go to the next chapter, track, or scene&lt;sup&gt;1)&lt;/sup&gt;</td>
<td>▶▶</td>
</tr>
<tr>
<td>Go back to the preceding chapter, track, or scene&lt;sup&gt;1)&lt;/sup&gt;</td>
<td>▶◂ twice in a second. When you press ▶◂ once, you can go to the beginning of the current chapter, track, or scene.</td>
</tr>
<tr>
<td>Turn off the sound temporarily</td>
<td>MUTING. To cancel, press it again or VOLUME + to adjust the sound volume.</td>
</tr>
<tr>
<td>Stop play and remove the desired disc</td>
<td>▲ on the unit.</td>
</tr>
<tr>
<td>Locate a point quickly by playing a disc in fast forward or fast reverse (Scan)&lt;sup&gt;1)&lt;/sup&gt;&lt;sup&gt;2)&lt;/sup&gt;</td>
<td>▶▸/◂◂ or ◄◂/◂◂ while playing a disc. Each time you press ▶▸/◂◂ or ◄◂/◂◂ during scan, the playback speed changes. To return to normal speed, press ▶▷. Actual speeds may differ with some discs.</td>
</tr>
<tr>
<td>Watch frame by frame (Slow-motion Play)&lt;sup&gt;3)&lt;/sup&gt;</td>
<td>▶▸/◂◂ or ◄◂/◂◂&lt;sup&gt;4)&lt;/sup&gt; while the system is in pause mode. Each time you press ▶▸/◂◂ or ◄◂/◂◂&lt;sup&gt;4)&lt;/sup&gt; during Slow-motion Play, the playback speed changes. Two speeds are available. To return to normal playback speed, press ▶▷.</td>
</tr>
<tr>
<td>Play one frame at a time (Freeze Frame)&lt;sup&gt;3)&lt;/sup&gt;&lt;sup&gt;5)&lt;/sup&gt;</td>
<td>STEP ▶▸ to go to the next frame while the system is in pause mode. Press STEP ◄◂ to go to the preceding frame while the system is in pause mode (DVD VIDEO/DVD-R/DVD-RW/DVD-RW only). To return to normal playback, press ▶▷.</td>
</tr>
<tr>
<td>Replay the previous scene (10 seconds before)&lt;sup&gt;6)&lt;/sup&gt;</td>
<td>◄ ● (instant replay) during playback.</td>
</tr>
<tr>
<td>Briefly fast forward the current scene (30 seconds after)&lt;sup&gt;7)&lt;/sup&gt;</td>
<td>◄ ► (instant advance) during playback.</td>
</tr>
</tbody>
</table>

<sup>1)</sup>Except for JPEG image files.
<sup>2)</sup>Scan speeds may differ with some discs.
<sup>3)</sup>DVD VIDEO, DVD-R, DVD-RW, VIDEO CD only.
<sup>4)</sup>Except for VIDEO CDs.
<sup>5)</sup>You cannot search for a still picture on a DVD-VR.
<sup>6)</sup>DVD VIDEO/DVD-RW/DVD-R only.
<sup>7)</sup>DVD VIDEO/DVD-RW/DVD-R/DVD+RW/DVD+R only.

### Displaying multi-angles and subtitles

#### To change the angles

**DVD-V**

If various angles (multi-angles) for a scene are recorded on a DVD VIDEO, you can change the viewing angle.

**Press ANGLE during playback to select the desired angle.**

**Note**

- Depending on the DVD VIDEO, you may not be able to change the angle even if multi-angles are recorded on the DVD VIDEO.

#### To display the subtitles

**DVD-V DVD-VR**

If subtitles are recorded on a disc, you can turn the subtitles on/off during playback. If multilingual subtitles are recorded on the disc, you can change the subtitle language during playback, or turn the subtitles on/off whenever you want.

**Press SUBTITLE during playback to select the desired subtitle language.**

**Note**

- Depending on the DVD VIDEO, you may not be able to change the subtitles even if multilingual subtitles are recorded on the disc. You also may not be able to turn them off.
Changing the sound

When the system is playing a DVD VIDEO recorded in multiple audio formats (PCM, Dolby Digital, MPEG audio, or DTS), you can change the audio format. If the DVD VIDEO is recorded with multilingual tracks, you can also change the language.

With a VIDEO CD, CD, DATA CD, or DATA DVD, 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.

You cannot change the sound for a Super Audio CD.

Press AUDIO repeatedly during playback to select the desired audio signal.

**DVD VIDEO**
Depending on the DVD VIDEO, the choice of language varies.

When 4 digits are displayed, they indicate a language code. See “Language Code List” (page 80) to confirm which language the code represents. When the same language is displayed two or more times, the DVD VIDEO is recorded in multiple audio formats.

**DVD-VR**
The types of sound tracks recorded on a disc are displayed.
Example:
- [1: MAIN] (main sound)
- [1: SUB] (sub sound)
- [1: MAIN+SUB] (main and sub sound)
- [2: MAIN]
- [2: SUB]
- [2: MAIN+SUB]

**Note**
- [2: MAIN], [2: SUB], and [2: MAIN+SUB] do not appear when one audio stream is recorded on the disc.

**VIDEO CD/CD/DATA CD (MP3 file)/DATA DVD (MP3 file)**
- [STEREO]: The standard stereo sound.
- [1/L]: The sound of the left channel (monaural).
- [2/R]: The sound of the right channel (monaural).

**Super VCD**
- [1:STEREO]: The stereo sound of the audio track 1.
- [1:1/L]: The sound of the left channel of the audio track 1 (monaural).
- [1:2/R]: The sound of the right channel of the audio track 1 (monaural).
- [2:STEREO]: The stereo sound of the audio track 2.
- [2:1/L]: The sound of the left channel of the audio track 2 (monaural).
- [2:2/R]: The sound of the right channel of the audio track 2 (monaural).

**Note**
- While the system is playing a Super VCD on which the audio track 2 is not recorded, no sound will come out when you select [2:STEREO], [2:1/L], or [2:2/R].

Checking the audio signal format

**DVD-V**
If you press AUDIO repeatedly during playback, the format of the current audio signal (PCM, Dolby Digital, DTS, etc.) appears as shown below.

**DVD**

**Example:**
Dolby Digital 5.1 channel

Surround (L/R)  LFE (Low Frequency Effect)
Front (L/R) +  Currently playing program format
Center
Example:
Dolby Digital 3 channel

Selecting a playback area for a Super Audio CD

You can play the Super Audio CD (page 78) by selecting the playback area.

To select a playback area on a 2 channel + Multi-channel Super Audio CD

Some Super Audio CDs consist of a 2 channel playback area and a multi-channel playback area. You can select the playback area you want to listen to.

1. Press DISPLAY while the system is in stop mode.
   The Control Menu display appears on the TV screen.

2. Press \uparrow/\downarrow to select [MULTI/2CH], then press .
   The options for [MULTI/2CH] appear.

3. Press \uparrow/\downarrow to select the desired setting and press .
   - [MULTI]: You can play the multi-channel playback area.
   - [2CH]: You can play the 2 channel playback area.

Note
- You cannot change the playback area during playback.
- When the Super Audio CD does not have the multi-channel playback area, you cannot select the playback area.

To change a playback layer when playing a hybrid Super Audio CD

Some Super Audio CDs consist of a Super Audio CD layer and a CD layer. You can change the playback layer you want to listen to.

Note
- When the Super Audio CD does not have the Super Audio CD layer, you cannot select the playback layer.

1. Press DISPLAY while the system is in stop mode.
   The Control Menu display appears on the TV screen.

2. Press \uparrow/\downarrow to select [SUPER AUDIO CD/CD LAYER], then press .
   - When the current layer is the CD layer
     [SUPER AUDIO CD] appears.
   - When the current layer is the Super Audio CD layer
     [CD] appears.

3. Press \dagger to change the layer.
   - [SUPER AUDIO CD]: You can play the Super Audio CD layer.
     When the system is playing a Super Audio CD layer, “SA-CD” lights up in the front panel display
   - [CD]: You can play the CD layer.
     When the system is playing a CD layer, “CD” lights up in the front panel display.

Note
- Each play mode function works only within the selected layer or playback area.
- When you select a CD layer, you cannot change a playback area.
- Super Audio CD audio signals are not output from the HDMI OUT jack.

Playing a VIDEO CD with PBC functions (Ver.2.0)

(PBC Playback)

With PBC (Playback Control) functions, you can enjoy simple interactive operations, search functions, and other such operations.
PBC playback allows you to play a VIDEO CD interactively by following the menu on the TV screen.

1. **Start playing a VIDEO CD with PBC functions.**
   
   The menu for your selection appears.

2. **Select the item number you want using the number buttons.**

3. **Press ○.**

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

**To go back to the menu**

Press ○ RETURN.

**Note**


**Tip**

- To play without using the PBC function, press I ◄/ ► or the number buttons while the system is in stop mode to select a track, then press ▶ or ○. The system starts playback. You cannot play still pictures such as a menu. To return to PBC playback, press ■ twice, then press ▶.

---

**Resuming playback from the point where you stopped the disc**

*(Resume Play)*

When you stop the disc, the system remembers the point where you pressed ■ and “RESUME” appears in the front panel display. As long as you do not remove the disc, Resume Play will work even if the system is set to standby mode by pressing I/○.

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

   “RESUME” appears in the front panel display.

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

**Note**

- Depending on where you stop the disc, the system may not resume playback from exactly the same point.
- The point where you stopped playing may be cleared when:
  - you eject the disc.
  - the system enters standby mode (DATA CD/DATA DVD only).
  - you change or reset the settings on the Setup Display.
  - you change the parental control level.
  - you change the function by pressing FUNCTION +/-.
  - you disconnect the AC power cord (mains lead).
- For a DVD-VR, VIDEO CD, Super Audio CD, CD, DATA CD, or DATA DVD, the system remembers the resume playback point for the current disc.
- Resume Play does not work during Program Play and Shuffle Play.
- This function may not work properly with some discs.

**Tip**

- To play from the beginning of the disc, press ■ twice, then press ▶.

**To enjoy a disc that is played before by resume playback**

*(Multi-disc Resume)*

This system recalls the point where you stopped the disc the last time it was played and resumes playback from that point the next time you insert the same disc. When the resume playback memory is full, the resume playback point for the earliest disc is deleted.

To activate this function, set [MULTI-DISC RESUME] in [SYSTEM SETUP] to [ON]. For details, see “[MULTI-DISC RESUME] (DVD VIDEO/VIDEO CD only)” (page 50).

**Note**

- This system can store at least 10 resume playback points.
Using Play Mode

Creating your own program

(Program Play)

You can play the contents of a disc in the order you want by arranging the order of the tracks on the disc to create your own program. You can program up to 99 tracks.

1 Press DISPLAY.
The Control Menu display appears on the TV screen.

2 Press ↑/↓ to select [PROGRAM], then press ．

3 Press ↑/↓ to select [SET →], then press ．

Total time of the programmed tracks

4 Press ▶.
The cursor moves to the track row [T] (in this case, [01]).

5 Select the track you want to program.
For example, select track [02].
Press ↑/↓ to select [02] under [T], then press ．
To program other tracks, repeat Steps 4 to 5.
The programmed tracks are displayed in the selected order.

7 Press ➤ to start Program Play.
Program Play starts.
When the program ends, you can restart the same program again by pressing ➤.

To return to normal play
Press CLEAR while the display for the program setting is not displayed on the TV screen, or select [OFF] in Step 3. To play the same program again, select [ON] in Step 3 and press 🔄.

To turn off the Control Menu display
Press 🔄 DISPLAY repeatedly until the Control Menu display is turned off.

To change or cancel a program
1 Follow Steps 1 to 3 of “Creating your own program.”
2 Press ↑/↓ to select the program number of the track you want to change or cancel.
If you want to delete the track from the program, press CLEAR.
3 Follow Step 5 for new programming.
To cancel a program, select [--] under [T], then press 🔄.

To cancel all of the tracks in the programmed order
1 Follow Steps 1 to 3 of “Creating your own program.”
2 Press ↑ and select [ALL CLEAR].
3 Press 🔄.

Note
• When you press CLEAR to return to normal play, Shuffle Play and Repeat Play are also canceled.

Playing in random order
(Shuffle Play)

You can play the contents on a disc in random order. Subsequent Shuffle Play may produce a different playing order.

Note
• Same song may be played repeatedly when you are playing MP3 files.
1 Press 🔄 DISPLAY during playback.
The Control Menu display appears on the TV screen.
2 Press ↑/↓ to select [SHUFFLE], then press 🔄.
The options for [SHUFFLE] appear.
3 Press ↑/↓ to select the item to be shuffled.

■ VIDEO CD/Super Audio CD/CD
• [OFF]: Off.
• [TRACK]: You can shuffle tracks on the disc.

■ During Program Play
• [OFF]: Off.
• [ON]: You can shuffle tracks selected in Program Play.

■ DATA CD/DATA DVD
• [OFF]: Off.
• [ON (MUSIC)]: You can shuffle MP3 files in the folder on the current disc.
When no folder is selected, the first folder will play in random order.
4 Press 🔄.
Shuffle Play starts.

**To return to normal play**
Press CLEAR, or select [OFF] in Step 3.

**To turn off the Control Menu display**
Press DISPLAY repeatedly until the Control Menu display is turned off.

---

**Playing repeatedly**

(Repeat Play)

<table>
<thead>
<tr>
<th>DVD-VIDEO/DVD-VR</th>
<th>VIDEO CD</th>
<th>Super Audio CD/CD</th>
<th>DATA CD</th>
<th>DATA DVD</th>
</tr>
</thead>
</table>

You can play the contents on a disc repeatedly. You can use a combination of Shuffle Play or Program Play modes.

1. **Press DISPLAY during playback.**
   - The Control Menu display appears on the TV screen.

2. **Press / to select [REPEAT], then press .**

3. **Press / to select the item to be repeated.**
   - **DVD VIDEO/DVD-VR**
     - [OFF]: Off.
     - [DISC]: You can repeat all of the titles on the disc.
     - [TITLE]: You can repeat the current title on a disc.
     - [CHAPTER]: You can repeat the current chapter.
   - **VIDEO CD/Super Audio CD/CD**
     - [OFF]: Off.
     - [DISC]: You can repeats all of the tracks on the disc.
     - [TRACK]: You can repeat the current track.

---

**DATA CD/DATA DVD**

- [OFF]: Off.
- [DISC]: You can repeat all of the folders on the disc.
- [FOLDER]: You can repeat the current folder.
- [TRACK] (MP3 files only): You can repeat the current file.

4. **Press .**
   - The item is selected.

**To return to normal play**
Press CLEAR, or select [OFF] in Step 3.

**To turn off the Control Menu display**
Press DISPLAY repeatedly until the Control Menu display is turned off.

---

**Note**

- You cannot use Repeat Play with a VIDEO CD or Super VCD with PBC playback.
- When the system is playing a DATA CD/DATA DVD which contains MP3 files and JPEG image files, and their playing time is not the same, the audio sound will not match the image.
- When [MODE (MUSIC, IMAGE)] is set to [IMAGE] (page 41), you cannot select [TRACK].
- When you press CLEAR to return to normal play, Program Play and Shuffle Play are also canceled.
Searching/Selecting a Disc

Using the DVD’s menu

A DVD is divided into a lot of sections, which make up a picture or music feature. These sections are called “titles.” When you play a DVD which contains several titles, you can select the title you want using DVD TOP MENU.

When you play a DVD that allows you to select items such as the language for the subtitles and the language for the sound, select these items using DVD MENU.

1 Press DVD TOP MENU or DVD MENU. The disc’s menu appears on the TV screen. The contents of the menu vary depending on the disc.

2 Press  or the number buttons to select the item you want to play or change.

3 Press .

To display the DVD’s menu on the Control Menu display

1 Press DISPLAY during playback. The Control Menu display appears on the TV screen.

2 Press  to select [DISC MENU], then press . The options for [DISC MENU] appear.

3 Press  to select [MENU] or [TOP MENU].

4 Press .

To turn off the Control Menu display

Press DISPLAY repeatedly until the Control Menu display is turned off.

Selecting [ORIGINAL] or [PLAY LIST] on a DVD-VR

This function is only available for DVD-VRs with a playlist created.

1 Press DISPLAY while the system is in stop mode. The Control Menu display appears on the TV screen.

2 Press  to select [ORIGINAL/PLAY LIST], then press .

The options for [ORIGINAL/PLAY LIST] appear.

3 Press  to select a setting.

• [PLAY LIST]: You can play the titles created from [ORIGINAL] for editing.

• [ORIGINAL]: You can play the titles originally recorded.

4 Press .

Searching for a title/chapter/track/scene, etc.

You can search a DVD VIDEO/DVD-VR by title or chapter, and you can search a VIDEO CD/Super Audio CD/CD/DATA CD/DATA DVD by track, index, or scene. For a DATA CD/DATA DVD, you can search by folder or file. As titles and tracks are assigned unique numbers on the disc, you can select the desired title or track by entering its number. Or, you can search for a scene using the time code.

1 Press DISPLAY. (When playing a DATA CD/DATA DVD with JPEG image files, press DISPLAY twice.) The Control Menu display appears on the TV screen.

2 Press  to select the search method.

Example: [CHAPTER] [** (**)] is selected (** refers to a number).
The number in parentheses indicates the total number of titles, chapters, tracks, indexes, scenes, folders, or files.

For example, to find the scene at 2 hours, 10 minutes, and 20 seconds after the beginning. Press 2, 1, 0, 2, 0 ([2:10:20]).

**4 Press ‡.**

*Note*
- You cannot search for a scene on a DVD+RW using the time code.

**3 Press ‡.**

[** (**)] changes to [– – (**)].

**4 Press ‡ or the number buttons to select the desired number of the title, chapter, track, index, scene, etc.**

If you make a mistake, press CLEAR to cancel the number.

**5 Press ‡.**

The system starts playback from the selected number.

**Tip**
- When the Control Menu display is turned off, you can search for a chapter (DVD VIDEO/DVD-R/DVD-RW) or track (VIDEO CD/Super Audio CD/CD) by pressing the number buttons and ‡.

**To search for a scene using the time code**

**DVD-V  DVD-VR**

**1 In Step 2, select [** TIME].**

[T **,**,**,**] (playing time of the current title) is selected.

**2 Press ‡.**

[T **,**,**,**] changes to [T --:--:--].

**3 Input the time code using the number buttons.**
Playing MP3 Files/JPEG Image Files

You can play the MP3 files or JPEG image files:
- which have the extension “.MP3” (MP3 file) or “.JPG”/“.JPEG” (JPEG image file)
- which conform to the DCF* image file format
* “Design rule for Camera File system”: Image standards for digital cameras regulated by Japan Electronics and Information Technology Industries Association (JEITA).

Note
- The system will play any data with the extension “.MP3,” “.JPG,” or “.JPEG” even if they are not in MP3 or JPEG format. Playing these data may generate a loud noise which could damage your speaker system.
- The system does not conform to audio in MP3PRO format.
- The system can recognize up to 200 folders, and will not play any folders beyond the 200th. (Depending on the folder configuration, the number of folders that can be recognized by the system may decrease.)
- The system can recognize up to 150 MP3 files/JPEG image files in a folder.
- The system may take longer time to playback, when progressing to the following folder or jump to other folder.
- The system may not play certain types of JPEG image files (ex. a JPEG image file that is less than 8 (width) × 8 (height)).

Selecting an MP3 file or folder

1 Load a DATA CD or DATA DVD.
   The folders recorded on the DATA CD or DATA DVD appear. When a folder is being played, its title is shaded.

2 Press ↑/↓ to select a folder.
   - To play MP3 files in a folder
     Press ► to start playing the selected folder.
   - To select a MP3 file
     Press ◙. The list of files contained in the folder appears.

Press ↑/↓ to select a file and press ◙. The system starts playing the selected file.
You can turn the file list off by pressing DVD MENU. Pressing DVD MENU again will display the folder list.

To stop playback
Press ■.

To play the next or previous MP3 file
Press ►► to play the next MP3 file. Press ◄◄ twice to play the previous MP3 file.
When you press ◄◄ once, you can go to the beginning of the current MP3 file.
Note that you can select the next folder by continuing to press ►► after the last file on the current folder, but that you cannot return to the previous folder by pressing ◄◄. To return to the previous folder, select the folder from the folder list.

To return to the previous display
Press ◄(Return) RETURN.

To turn off the display
Press DVD MENU.
Selecting a JPEG image file or folder

1 Load a DATA CD or DATA DVD.
The folders recorded on the DATA CD or DATA DVD appear. When a folder is being played, its title is shaded.

2 Press ↑/↓ to select a folder.
   ■ To play JPEG image files in a folder
   Press ► to start playing the selected folder.
   ■ To select a JPEG image file by displaying the subscreens
   Press PICTURE NAVI.
   Images of JPEG image files in the folder appear in 16 subscreens.

   FOLDER LIST
   01 Let’s Talk About Love (1985)
   02 1st Album (1986)
   03 In the Middle of Nowhere (1986)
   04 Ready for Romance (1986)
   05 In the Garden of Venus (1987)
   06 Romantic Warriors (1987)
   07 Back for Good (1988)
   08 Alone (1999) ▼

   Press ←/↑/↓/→ to select the JPEG image file you want to view, then press ◀. To return to normal screen, press ◀ RETURN.

   Note
   • PICTURE NAVI does not work when you set [MODE (MUSIC, IMAGE)] to [MUSIC].

   TIPS
   • A scroll box is displayed at the right side of the TV screen. To display the additional JPEG image files, select the bottom JPEG image file and press ↓. To return to the previous JPEG image file, select the top JPEG image file and press ↑.

To play the next or previous JPEG image file
Press ◄/◄ when the Control Menu display is not displayed. Note that you can select the next folder by continuing to press ► after the last image on the current folder, but that you cannot return to the previous folder by pressing ◄. To return to the previous folder, select the folder from the folder list.

To rotate a JPEG image file
When a JPEG image file is displayed on the TV screen, you can rotate the JPEG image file by 90 degrees.
Press ↑/↓ while viewing a JPEG image file.
Press CLEAR to return to normal view.

   Note
   • You cannot rotate the JPEG image file when you set [JPEG RESOLUTION] in [HDMI SETUP] to [(1920 × 1080i) HD] or [(1920 × 1080i) HD] (page 48).

To stop playback
Press ■.

Displaying the list of MP3 files/JPEG image files

1 Press DISPLAY during playback.
The Control Menu display appears on the TV screen.

2 Press ↑/↓ to select [BROWSING], then press ◀.
The options for [BROWSING] appear.

3 Press ↑/↓ to select the desired list, then press ◀.
   • [FOLDER LIST]: The list of folders appears. Follow Step 2 of “Selecting an MP3 file or folder” (page 39) or “Selecting a JPEG image file or folder” (page 40).
   • [PICTURE LIST]: Images of JPEG image files in the folder appear in 16 subscreens. Follow Step 2 of “Selecting a JPEG image file or folder” (page 40).
If there is no JPEG image file in the selected folder, [No image data] appears.
In this case, select [FOLDER LIST] to display the list of folders.
Playing MP3 files and JPEG image files as a slide show with sound

You can play a slide show with sound by first placing both MP3 files and JPEG image files in the same folder on a DATA CD or DATA DVD.

1 Load a DATA CD or DATA DVD.
2 Press DISPLAY while the system is in stop mode.
   The Control Menu display appears on the TV screen.
3 Press ↑/↓ to select [MODE (MUSIC, IMAGE)], then press .
   The options for [MODE (MUSIC, IMAGE)] appear.
4 Press ↑/↓ to select a setting.
   - [AUTO]: You can play both the JPEG image files and MP3 files in the same folder as a slide show.
   - [MUSIC]: You can play only MP3 files continuously.
   - [IMAGE]: You can play only JPEG image files as a slide show.
5 Press .
6 Press DVD MENU.
   The list of folders recorded on the DATA CD or DATA DVD appears.
7 Press ↑/↓ to select the desired folder and press .
   The system starts playing the selected folder.
   You can turn the folder list on/off by pressing DVD MENU repeatedly.

Note
- PICTURE NAVI does not work when [MUSIC] is selected.
- If you play large MP3 file and JPEG image file at the same time, the sound may skip. Sony recommends that you set the MP3 bit rate to 128 kbps or lower when creating the file. If the sound still skips, reduce the size of the JPEG image file.

To select the slide show duration of JPEG image files

1 Press DISPLAY twice.
   The Control Menu display appears on the TV screen.
2 Press ↑/↓ to select [INTERVAL], then press .
3 Press ↑/↓ to select a setting.
   - [NORMAL]: You can set to the standard duration.
   - [FAST]: You can set the duration shorter than [NORMAL].
   - [SLOW 1]: You can set the duration longer than [NORMAL].
   - [SLOW 2]: You can set the duration longer than [SLOW 1].
4 Press .

Note
- Some JPEG image files may take longer to display than the option you selected. Especially progressive JPEG image files or JPEG image files of 3,000,000 pixels or more.
- Duration of interval depends on the [JPEG RESOLUTION] setting in [HDMI SETUP] (page 47).

To select an effect for JPEG image files in the slide show

1 Press DISPLAY twice.
   The Control Menu display appears on the TV screen.
2 Press ↑/↓ to select [EFFECT], then press .
   The options for [EFFECT] appear.
3 Press ↑/↓ to select a setting.
   - [MODE 1]: The JPEG image file sweeps in from top to bottom.
   - [MODE 2]: The JPEG image file stretches out from left to right of the TV screen.
   - [MODE 3]: The JPEG image file stretches out from the center of the TV screen.
   - [MODE 4]: The JPEG image files randomly cycle through the effects.
   - [MODE 5]: The next JPEG image file slides over the previous image.
Adjusting the Delay Between the Picture and Sound

[A/V SYNC]

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

1 Press DISPLAY.
   The Control Menu display appears on the TV screen.

2 Press ↑/↓ to select [A/V SYNC], then press .

3 Press ↑/↓ to select a setting.
   • [OFF]: Off.
   • [ON]: You can adjust the difference between picture and sound.

4 Press .

Note
• Depending on the input stream, [A/V SYNC] may not be effective.
Restricting Playback of the Disc

[PARENTAL CONTROL]

Playback of some DVD VIDEOs can be limited according to a predetermined level such as the age of the users. Scenes may be blocked or replaced with different scenes.

You can set the playback restriction by registering a password. When you set the [PARENTAL CONTROL] function to on, you need to enter the password to play restricted discs.

1. Press FUNCTION +/- repeatedly until “DVD” appears in the front panel display.
2. Press DISPLAY while the system is in stop mode.
   The Control Menu display appears on the TV screen.
3. Press ↑/↓ to select [SETUP], then press ●.
   The options for [SETUP] appear.
4. Press ↑/↓ to select [CUSTOM], then press ●.
   The Setup Display appears.
5. Press ↑/↓ to select [SYSTEM SETUP], then press ●.
   The options for [SYSTEM SETUP] appear.
6. Press ↑/↓ to select [PARENTAL CONTROL →], then press ●.
   ■ If you have not entered a password
   The display for registering a new password appears.

   Enter a new 4-digit password, then press ENTER.

   Enter or re-enter your 4-digit password using the number buttons, then press ●.
   The display for entering the password appears.

   When you have already registered a password
   The display for setting the playback limitation level appears.

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

7. Enter or re-enter your 4-digit password using the number buttons, then press ●.
   The display for setting the playback limitation level appears.

   PARENTAL CONTROL
   
   LEVEL: OFF
   STANDARD: USA
   CHANGE PASSWORD: 

8. Press ↑/↓ to select [STANDARD], then press ●.
   The selection items for [STANDARD] are displayed.

9. Press ↑/↓ to select a geographic area as the playback limitation level, then press ●.
   The area is selected.
   When you select [OTHERS →], select and enter a standard code in the table of “Parental Control Area Code List” (page 80) using the number buttons.

10. Press ↑/↓ to select [LEVEL], then press ●.
    The selection items for [LEVEL] are displayed.

11. Press ↑/↓ to select the desired level, then press ●.
    [PARENTAL CONTROL] setting is complete.
    The lower the value, the stricter the limitation.
To turn off the [PARENTAL CONTROL] function

To play a disc for which [PARENTAL CONTROL] is set

1. Load the disc and press \( \rightarrow \).
   The display for entering your password appears.

2. Enter your 4-digit password using the number buttons, then press \( \rightarrow \).
   The system starts playback.

**Note**
- When you play discs which do not have the [PARENTAL CONTROL] function, playback cannot be limited on this system.
- Depending on the disc, you may be asked to change the parental control level while playing the disc. In this case, enter your password, then change the level. If the Resume Play mode is canceled, the level returns to the previous level.

**Tip**
- If you forget your password, remove the disc and repeat Steps 1 to 7 of “Restricting Playback of the Disc” (page 43). When you are asked to enter your password, enter “199703” using the number buttons, then press \( \rightarrow \). The display will ask you to enter a new 4-digit password. After you enter a new 4-digit password, replace the disc in the unit and press \( \rightarrow \). When the display for entering your password appears, enter your new password.

---

### Changing the password

1. Press FUNCTION \( \leftrightarrow \) repeatedly until “DVD” appears in the front panel display.

2. Press \( \rightarrow \) DISPLAY while the system is in stop mode.
   The Control Menu display appears on the TV screen.

3. Press \( \uparrow / \downarrow \) to select [SETUP], then press \( \rightarrow \).
   The options for [SETUP] appear.

4. Press \( \uparrow / \downarrow \) to select [CUSTOM], then press \( \rightarrow \).
   The Setup Display appears.

5. Press \( \uparrow / \downarrow \) to select [SYSTEM SETUP], then press \( \rightarrow \).
   The options for [SYSTEM SETUP] appear.

6. Press \( \uparrow / \downarrow \) to select [PARENTAL CONTROL \( \rightarrow \)], then press \( \rightarrow \).
   The display for entering the password appears.

7. Enter your 4-digit password using the number buttons, then press \( \rightarrow \).

8. Press \( \uparrow / \downarrow \) to select [CHANGE PASSWORD \( \rightarrow \)], then press \( \rightarrow \).

9. Enter your 4-digit password using the number buttons, then press \( \rightarrow \).

10. Enter a new 4-digit password using the number buttons, then press \( \rightarrow \).

11. To confirm your password, re-enter it using the number buttons, then press \( \rightarrow \).

**If you make a mistake entering your password**

Press \( \leftarrow \) before you press \( \rightarrow \), then input the correct number.
Using the Setup Display

You can make various adjustments of items such as picture and sound. Displayed items vary depending on the country model.

**Note**
- Playback settings stored in the disc take priority over the Setup Display settings and not all the functions described may work.

1. Press FUNCTION +/- repeatedly until “DVD” appears in the front panel display.
2. Press DISPLAY while the system is in stop mode.
   The Control Menu display appears on the TV screen.
3. Press ↑/↓ to select [SETUP], then press ○.
   The options for [SETUP] appear.
4. Press ↑/↓ to select [CUSTOM], then press ○.
   The Setup Display appears.
5. Press ↑/↓ to select the setup item, then press ○.
   - [LANGUAGE SETUP] (page 45)
   - [VIDEO SETUP] (page 46)
   - [HDMI SETUP] (page 47)
   - [AUDIO SETUP] (page 49)
   - [SYSTEM SETUP] (page 49)
   - [SPEAKER SETUP] (page 50)

   Example: [VIDEO SETUP]

6. Press ↑/↓ to select an item, then press ○.

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

7. Press ↑/↓ to select a setting, then press ○.
   The setting is selected and setup is complete.
   Example: [4:3 LETTER BOX]

**Note**
- When you turn the system on after resetting and no disc is in the unit, the guide message appears on the TV screen. To perform the Quick Setup (page 21), press ○. To return to normal screen, press CLEAR.

To reset all of the [SETUP] settings
To reset all of the [SETUP] settings, see “Returning the [SETUP] settings to the default” (page 66).

Setting the display or sound track language

**[LANGUAGE SETUP]**

Set various languages for the on-screen display or sound track.
■ [OSD] (On-Screen Display)
You can switch the display language on the TV screen.

■ [MENU] (DVD VIDEO only)
You can switch the language for the disc’s menu.

■ [AUDIO] (DVD VIDEO only)
You can switch the language of the sound track. When you select [ORIGINAL], the language given priority in the disc is selected.

■ [SUBTITLE] (DVD VIDEO only)
You can switch the language of the subtitle recorded on the DVD VIDEO. When you select [AUDIO FOLLOW], the language for the subtitles changes according to the language you selected for the sound track.

Note
- When you select a language in [MENU], [AUDIO], or [SUBTITLE] that is not recorded on the DVD VIDEO, one of the recorded languages will be automatically selected (depending on the disc, the language may not be selected automatically).

Tip
- If you select [OTHERS →] in [MENU], [AUDIO], and [SUBTITLE], select and enter a language code from “Language Code List” (page 80) using the number buttons.

Settings for the display

[VIDEO SETUP]

Select settings according to the TV to be connected.

![Settings for the display](image)

■ [TV TYPE]
You can select the aspect ratio of the connected TV.

[16:9]: Select this when you connect a wide-screen TV or a TV with a wide mode function.

[4:3 LETTER BOX]: Select this when you connect a 4:3 screen TV. Displays a wide picture with bands on the upper and lower portions of the TV screen.

[4:3 PAN SCAN]: Select this when you connect a 4:3 screen TV. The system automatically displays the wide picture on the entire screen and cuts off the portions that do not fit.

Tip
- Depending on the DVD, [4:3 LETTER BOX] may be selected automatically instead of [4:3 PAN SCAN] or vice versa.

■ [PROGRESSIVE (COMPONENT OUT)]
You can set the progressive signal that is output from the COMPONENT VIDEO OUT jacks to on/off. For details, see “Does your TV accept progressive signals?” (page 23).

[OFF]: The system outputs interlace signals.
[ON]: The system outputs progressive signals. When you select [ON], follow the Steps below.

1 Select [ON], then press ⊕.
   The confirmation display appears.

2 Press ↼ to select [START], then press ⊕.
The system outputs the progressive signal for 5 seconds. Check that the screen is displayed correctly.

3 Press ←/→ to select [YES], then press [OK].

The system outputs the progressive signal. If you select [NO], the system will not output the progressive signal.

**Note**
* [PROGRESSIVE (COMPONENT OUT)] is effective only when you connect the unit and TV with a component video cord (page 15).

### [4:3 OUTPUT]
When you use a 16:9 aspect ratio TV, you can adjust the aspect ratio to watch 4:3 aspect ratio signals. If you can change the aspect ratio on your TV, change the setting on your TV, not the system.

[FULL]: Select this when you can change the aspect ratio on your TV.
[NORMAL]: Select this when you cannot change the aspect ratio on your TV. A 16:9 aspect ratio signal with black bands on left and right sides of the image appears.

**Note**
* [4:3 OUTPUT] is effective only when you set [TV TYPE] in [VIDEO SETUP] to [16:9].

### [BLACK LEVEL]
You can select the black level (setup level) for the video signals output from the jacks other than COMPONENT VIDEO OUT/HDMI OUT.

[ON]: The standard level.
[OFF]: You can lower the standard black level. Use this when the picture becomes too white.

### [BLACK LEVEL (COMPONENT OUT)]
You can select the black level (setup level) for the video signals output from the COMPONENT VIDEO OUT jacks.

You cannot select this and the setting is not effective when the system outputs progressive signal.

[OFF]: You can set the black level of the output signal to the standard level.
[ON]: You can raise the standard black level. Use this when the picture becomes too black.

### [PAUSE MODE] (DVD VIDEO/DVD-R/ DVD-RW only)
You can select the picture in pause mode.

[AUTO]: The picture, including subjects that move dynamically, is output with no jitter. Normally select this position.
[FRAME]: The picture, including subjects that do not move dynamically, is output in high resolution.

### Settings for the HDMI

### [HDMI SETUP]

<table>
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<th>HDMI SETUP</th>
<th>HDMI RESOLUTION: AUTO (1920×1080p)</th>
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<td>CONTROL FOR HDMI:</td>
<td>OFF</td>
</tr>
<tr>
<td>VOLUME LIMIT:</td>
<td>LEVEL2</td>
</tr>
<tr>
<td>YCBCR/RGB(HDMI):</td>
<td>YCbCr</td>
</tr>
<tr>
<td>AUDIO(HDMI):</td>
<td>OFF</td>
</tr>
<tr>
<td>JPEG RESOLUTION:</td>
<td>SD</td>
</tr>
</tbody>
</table>

### [HDMI RESOLUTION]
You can select the type of video signal that is output from the HDMI OUT jack. For details, see “To select the type of video signal output from the HDMI OUT jack” (page 23).

[AUTO (1920 × 1080p)]: The system outputs the optimal video signal for the connected TV.
[1920 × 1080i]: The system outputs 1920 × 1080i* video signals.
[1280 × 720p]: The system outputs 1280 × 720p* video signals.
[720 × 480p]**: The system outputs 720 × 480p* video signals.

* i: interlace, p: progressive
** Depending on the country model, [720 × 576p] may appear.

- **[CONTROL FOR HDMI]**
  You can set the [CONTROL FOR HDMI] function to on/off. This function is available when you connect the system and TV with an HDMI cable. For details, see “Using the Control for HDMI Function for “BRAVIA” Sync” (page 56).

  - **[OFF]**: Off.
  - **[ON]**: On. You can operate mutually between components that are connected with an HDMI cable.

  **Note**
  - When you set to [ON] without the HDMI connection of the TV, [Please verify the HDMI connection.] appears and you cannot set to [ON].

- **[VOLUME LIMIT]**
  If you change the output method of the TV to the system speaker on the TV menu or by pressing THEATER/THEATRE*, the System Audio Control (page 58) is activated and loud sound may be output depending on the volume level of the system. You can prevent this by limiting the maximum level of the volume.

  * The button name differs depending on the area.

  - **[LEVEL3]**: Maximum volume level is set to 10.
  - **[LEVEL2]**: Maximum volume level is set to 15.
  - **[LEVEL1]**: Maximum volume level is set to 20.
  - **[OFF]**: Off.

  **Note**
  - This function is available only when [CONTROL FOR HDMI] is set to [ON].

- **[YCbCr/RGB (HDMI)]**
  You can select the type of HDMI signal output from HDMI OUT jack.

  - **[YCbCr]**: The system outputs YCbCr signals.
  - **[RGB]**: The system outputs RGB signals.

  **Note**
  - If the playback picture becomes distorted, set [YCbCr] to [RGB].
  - If the HDMI OUT jack is connected to a component with a DVI jack, [RGB] signals will be automatically output even when you select [YCbCr].

- **[AUDIO (HDMI)]**
  You can select the audio output status from the HDMI OUT jack.

  - **[OFF]**: The system does not output the sound from the HDMI OUT jack.
  - **[ON]**: The system outputs audio signals by converting Dolby Digital, DTS, or 96 kHz/24 bit PCM signals to 48 kHz/16 bit PCM.

  **Note**
  - When you connect the unit and TV with an HDMI cable and [ON] is selected, [AUDIO DRC], [A/V SYNC], DYNAMIC BASS, “DEC. MODE,” and sound mode are not applied to the sound that is output from the TV.
  - When you set the function to other than “DVD,” the system does not output the sound from the HDMI OUT jack even if you set [AUDIO (HDMI)] to [ON].

- **[JPEG RESOLUTION]**
  You can select the resolution of JPEG image files output from the HDMI OUT jack.

  - **[SD □]**: The system outputs standard resolution with a black frame.
  - **[HD □]**: The system outputs HD resolution with a black frame.
  - **[HD]**: The system outputs the HD resolution without a black frame.
  - **[(1920 × 1080i) HD □]**: The system outputs full size HD resolution with a black frame.
  - **[(1920 × 1080i) HD]**: The system outputs full size HD resolution without a black frame.

  **Note**
  - [JPEG RESOLUTION] is effective only when you set [TV TYPE] in [VIDEO SETUP] to [16:9], and you set [HDMI RESOLUTION] in [HDMI SETUP] to other than [720 × 480p] or [720 × 576p].
  - You can select [(1920 × 1080i) HD □] or [(1920 × 1080i) HD] only when you set [HDMI RESOLUTION] in [HDMI SETUP] to [1920 × 1080i].
  - If you select [(1920 × 1080i) HD □] or [(1920 × 1080i) HD], the next image appears after the black screen.
  - HDMI signal will stop momentarily when:
    - The system is loading or unloading a DATA CD or DATA DVD disc.
**Settings for the audio**

**[AUDIO SETUP]**

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<th>AUTO CALIBRATION:</th>
<th>AUDIO DRC:</th>
<th>TRACK SELECTION:</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>OFF</td>
<td>OFF</td>
</tr>
</tbody>
</table>

**[SPEAKER FORMATION]**
You can select the position of the speakers for the better surround sound. For details, see “Getting Optimal Surround Sound for a Room” (page 60).

**[AUTO CALIBRATION]**
You can calibrate the appropriate settings automatically. For details, see “Calibrating the Appropriate Settings Automatically” (page 61).

**[AUDIO DRC] (DVD VIDEO only)**
You can compress the dynamic range of the sound track. [AUDIO DRC] is useful for watching movies at low volume late at night.

[OFF]: No compression of dynamic range.
[STANDARD]: The system reproduces the sound track with the kind of dynamic range that the recording engineer intended.
[MAX]: The system compresses dynamic range fully.

Note
- [AUDIO DRC] works only for Dolby Digital.

**[TRACK SELECTION] (DVD VIDEO only)**
You can give the sound track which contains the highest number of channels priority when you play a DVD VIDEO on which multiple audio formats (PCM, DTS, Dolby Digital, or MPEG audio) are recorded.

[OFF]: Off.
[AUTO]: The system selects the sound track automatically according to the priority.

Note
- When you set the item to [AUTO], the language may change. The [TRACK SELECTION] setting has higher priority than the [AUDIO] settings in [LANGUAGE SETUP] (page 45). (Depending on the disc, this function may not work.)
- If PCM, DTS, Dolby Digital sound, and MPEG audio have the same number of channels, the system selects PCM, DTS, Dolby Digital sound, and MPEG audio in this order.

**Other Settings**

**[SYSTEM SETUP]**

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<tr>
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<th>BACKGROUND:</th>
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<th>RESET:</th>
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<tbody>
<tr>
<td></td>
<td>ON</td>
<td>JACKET PICTURE</td>
<td></td>
<td>ON</td>
<td></td>
</tr>
</tbody>
</table>

**[SCREEN SAVER]**
You can reduce the display device damages (ghosting). Press any button (e.g., button) to cancel the screen saver.

[ON]: The screen saver image appears if you do not operate the system for about 15 minutes.
[OFF]: Off.

**[BACKGROUND]**
You can select the background color or picture on the TV screen.

[JACKET PICTURE]: The jacket picture (still picture) appears, but only when the jacket picture is already recorded on the disc (CD-EXTRA, etc.). If the disc does not contain a jacket picture, the [GRAPHICS] picture appears.
[GRAPHICS]: A preset picture stored in the system appears.
[BLUE]: The background is blue.
[BLACK]: The background is black.
[PARENTAL CONTROL]
You can set the playback restrictions. For details, see “Restricting Playback of the Disc” (page 43).

[MULTI-DISC RESUME] (DVD VIDEO/VIDEO CD only)
You can set the [MULTI-DISC RESUME] function to on/off.

[ON]: The system stores the resume points in memory for up to 10 discs.
[OFF]: The system does not store the resume points in memory. Playback restarts at the resume point only for the current disc in the unit.

[RESET]
You can return the [SET UP] settings other than [PARENTAL CONTROL] to the default settings. For details, see “Returning the [SETUP] settings to the default” (page 66).

Settings for the speakers
[SPEAKER SETUP]
To obtain the best possible surround sound, set connection of the speakers and their distance from your listening position. Then use the test tone to adjust the level and the balance of the speakers to the same level.

Note
• You cannot operate [SPEAKER SETUP] when you connect headphones to the unit.

[CONNECTION]
If you do not connect center or surround speakers, set the parameters for [CENTER] and [SURROUND]. Since the front speaker and subwoofer setting is fixed, you cannot change them.

[FRONT]
[YES]

[CENTER]
[YES]: Normally select this.
[NONE]: Select this if no center speaker is used.

[SURROUND]
[YES]: Normally select this.
[NONE]: Select this if no surround speaker is used.

[SUBWOOFER]
[YES]

Note
• When you change the [CONNECTION] setting, the [STANDARD] of [SPEAKER FORMATION] setting remains the same, but the other settings of [SPEAKER FORMATION] return to [STANDARD].

[DISTANCE (FRONT)]
When you move the front speakers and center speaker, be sure to set the parameters of the distance (A) from the listening position to the speakers.
You can set the parameters from 1.0 to 7.0 meters\(^1\) (3 to 23 ft) for the front speakers, from 0.0 to 7.0 meters\(^2\) (0 to 23 ft) for the center speaker.

[L/R] 3.0 m/10 ft\(^3\): Set the front speaker distance.
[CENTER] 3.0 m/10 ft\(^3\)\(^4\): Set the center speaker distance (up to 1.5 meters (5 ft) closer to the front speakers).
1) 0.9 to 6.9 meters for North American models.
2) 0.0 to 6.9 meters for North American models.
3) When you perform the Quick Setup (page 21), the default settings are changed.
4) This item appears when you set [CENTER] to [YES] in the [CONNECTION] setting.

### [DISTANCE (SURROUND)]

When you move the surround speakers, be sure to set the parameters of the distance (B) from the listening position to the speakers.

You can set the parameters from 0.0 to 7.0 meters1) (0 to 23 ft).

[1/R] 3.0 m/10 ft2)3): Set the surround speaker distance (up to 4.8 meters (16 ft) closer to the front speakers).

1) 0.0 to 6.9 meters for North American models.
2) When you perform the Quick Setup (page 21), the default settings are changed.
3) This item appears when you set [SURROUND] to [YES] in the [CONNECTION] setting.

### [LEVEL (SURROUND)]

You can adjust the sound level of the surround speakers. You can set the parameter from –6.0 dB to +6.0 dB. Be sure to set [TEST TONE] to [ON] for easy adjustment.

[L/R] 0.0 dB*: Set the surround speaker level.

* This item appears when you set [SURROUND] to [YES] in the [CONNECTION] setting.

### [TEST TONE]

The speakers will emit a test tone to adjust [LEVEL (FRONT)] and [LEVEL (SURROUND)].

[OFF]: The test tone is not emitted from the speakers.

[ON]: The test tone is emitted from each speaker in sequence while adjusting level. When you select one of the [SPEAKER SETUP] items, the test tone is emitted from each speaker in sequence.

Adjust the sound level as follows.

1. Set the [TEST TONE] to [ON].
2. Press ←↑↓→ repeatedly to select the desired speaker and the level.
3. Press ⊙.
4. Repeat Steps 1 to 3.
5. Press ←↑↓→ repeatedly to set [TEST TONE] to [OFF] after adjusting the speaker level.

### [LEVEL (FRONT)]

You can adjust the sound level of the front speakers, center speaker, and subwoofer. You can set the parameters from –6.0 dB to 0 dB for [L/R], and from –6.0 dB to +6.0 dB for [CENTER] and [SUBWOOFER]. Be sure to set [TEST TONE] to [ON] for easy adjustment.

[L/R] 0.0 dB: Set the front speaker level.
[CENTER] 0.0 dB*: Set the center speaker level.
[SUBWOOFER] +2.0 dB: Set the subwoofer level.

* This item appears when you set [CENTER] to [YES] in the [CONNECTION] setting.

### [LEVEL (FRONT)]

You can adjust the sound level of the surround speakers. You can set the parameter from –6.0 dB to +6.0 dB. Be sure to set [TEST TONE] to [ON] for easy adjustment.

[L/R] 0.0 dB*: Set the surround speaker level.

* This item appears when you set [SURROUND] to [YES] in the [CONNECTION] setting.

### Note

- If all front and surround speakers are not placed at an equal distance from your listening position, set the distance according to the closest speaker.
- Do not place the surround speakers farther away from your listening position than the front speakers.
- Depending on the input stream, the [DISTANCE] setting may not be effective.

### [TEST TONE]

The speakers will emit a test tone to adjust [LEVEL (FRONT)] and [LEVEL (SURROUND)].

[OFF]: The test tone is not emitted from the speakers.

[ON]: The test tone is emitted from each speaker in sequence while adjusting level. When you select one of the [SPEAKER SETUP] items, the test tone is emitted from each speaker in sequence.

Adjust the sound level as follows.

1. Set the [TEST TONE] to [ON].
2. Press ←↑↓→ repeatedly to select the desired speaker and the level.
3. Press ⊙.
4. Repeat Steps 1 to 3.
5. Press ←↑↓→ repeatedly to set [TEST TONE] to [OFF] after adjusting the speaker level.

### Note

- The test tone signals are not output from the HDMI OUT jack.
- To adjust the volume of all the speakers at one time, turn the VOLUME control on the unit, or press VOLUME +/- on the remote.
- To return to the default setting when changing a setting, select the item, then press CLEAR. Note that only the [CONNECTION] setting does not return to the default setting.
Presetting Radio Stations

You can preset 20 FM stations, and 10 AM stations. Before tuning, make sure to turn down the volume to minimum.

**Tip**
- You can operate the tuner function by observing the following display on the TV screen.

1. Press FUNCTION +/- repeatedly until “TUNER FM” or “TUNER AM” appears in the front panel display.
2. Press and hold TUNING +/- until the auto scanning starts.
   Scanning stops when the system tunes in a station. “TUNED” and “ST” (for stereo program) appear in the front panel display.
3. Press SYSTEM MENU.
4. Press ↑/↓ repeatedly until “MEMORY” appears in the front panel display.
5. Press ◀ or →.
   A preset number appears in the front panel display.
6. Press ↑/↓ to select the preset number you want.

**Tip**
- You can select the preset number directly by pressing the number buttons.

7. Press ◀.
   “COMPLETE” appears in the front panel display, and the station is stored.
8. Repeat Steps 2 to 7 to store other stations.
9. Press SYSTEM MENU.
   The system menu turns off.

**To change the preset number**
Select the desired preset number by pressing PRESET +/- (page 54), then perform the procedure from Step 3.

**To change the AM tuning interval (except for Russian and Middle Eastern models)**
The AM tuning interval can be set to either 10 kHz or 9 kHz.
To change the AM tuning interval, first tune in any AM station, then turn off the system by pressing I/Ω on the unit. While holding down ►►l on the unit, press I/Ω on the unit to turn on the power. If you change the interval, AM preset stations will be erased.
To reset the interval, repeat the same procedure.
Listening to the Radio

Preset radio stations in the system’s memory first (see “Presetting Radio Stations” (page 53)).

1. Press FUNCTION +/- repeatedly until “TUNER FM” or “TUNER AM” appears in the front panel display.
   The last received station is tuned in.

2. Press PRESET +/- repeatedly to select the preset station.
   Each time you press the button, the system tunes in one preset station.
   TIP
   • You can select the preset station number directly by pressing the number buttons.

3. Adjust the volume by pressing VOLUME +/-.

To turn off the radio
Press 1.

To listen to non-preset radio stations
Use manual or automatic tuning in Step 2. For manual tuning, press TUNING +/- repeatedly. For automatic tuning, press and hold TUNING +/- . The automatic tuning stops automatically when the system receives the radio station. To stop the automatic tuning manually, press TUNING +/- or ■.

To listen to radio stations when you know the frequencies
1. Press FUNCTION +/- repeatedly until “TUNER FM” or “TUNER AM” appears in the front panel display.

2. Press D.TUNING.

3. Press the number buttons to select the frequencies.

4. Press ■.
   TIP
   • To improve reception, reorient the connected antennas (aerials).

If an FM program is noisy
If an FM program is noisy, you can select monaural reception. There will be no stereo effect, but reception will improve.

1. Press SYSTEM MENU.

2. Press ↑/↓ repeatedly until “FM MODE” appears in the front panel display.

3. Press  or ■.

4. Press ↑/↓ to select “MONO.”
   • “STEREO”: Stereo reception.
   • “MONO”: Monaural reception.

5. Press ▲.
   The setting is made.

6. Press SYSTEM MENU.
   The system menu turns off.

Naming preset stations

You can enter a name for preset stations. These names (for example, “XYZ”) appear in the front panel display when a station is selected. Only one name can be entered for each preset station.

1. Press FUNCTION +/- repeatedly until “TUNER FM” or “TUNER AM” appears in the front panel display.
   The last received station is tuned in.

2. Press PRESET +/- repeatedly to select the preset station you want to create an index name for.

3. Press SYSTEM MENU.

4. Press ↑/↓ repeatedly until “NAME IN” appears in the front panel display.

5. Press ▲ or ■.

6. Create a name by using ↑/↓/←/→.
   Press ↑/↓ to select a character, then press → to move the cursor to the next position.
You can input letters, numbers, and other symbols for a radio station.

**If you make a mistake**
Press ←/→ repeatedly until the character to be changed flashes, then press ↑/↓ to select the desired character.
To erase the character, press ←/→ repeatedly until the character to be erased flashes, then press CLEAR.

7 Press .
“COMPLETE” appears in the front panel display, and the station name is stored.

8 Press SYSTEM MENU.
The system menu turns off.

**Viewing the station name or frequency in the front panel display**

When the system is set to “TUNER FM” or “TUNER AM,” you can check the frequency using the front panel display.

Press DISPLAY.
Each time you press DISPLAY, the display changes:
① → ② → .... → ① → ....

**“TUNER FM”**

**When the station name is set**
① Station name
   Ex. “SONY RADIO”
② Frequency
   Ex. “FM1 87.50”
③ The “FM MODE” setting
   Ex. “STEREO”

**When the station name is not set:**
① Frequency
   Ex. “FM1 87.50”
② The “FM MODE” setting
   Ex. “STEREO”

**“TUNER AM”**

**When the station name is set**
① Station name
   Ex. “SONY RADIO”
② Frequency
   Ex. “AM1 576”

**When the station name is not set:**
① Frequency
   Ex. “AM1 576”

**Note**
• The system returns to the original display when several seconds has elapsed.
Using the Control for HDMI Function for “BRAVIA” Sync

This function is available on TVs with the “BRAVIA” Sync function only.
By connecting Sony components that are compatible with the Control for HDMI function with an HDMI cable (not supplied), operation is simplified as below:
– Theater Mode (page 57)
– One-Touch Play (page 57)
– System Power Off (page 57)
– System Audio Control (page 58)
– Volume Limit (page 58)

Control for HDMI is a mutual control function standard used by CEC (Consumer Electronics Control) for HDMI (High-Definition Multimedia Interface).

The Control for HDMI function will not work in the following cases:
– When you connect this system to a component which is not compatible with the Control for HDMI function.
– A component does not have an HDMI jack.

There are convenient buttons on the system’s remote for operating the TV, such as THEATER, ONE-TOUCH PLAY, TV I/Ô. For details, see “Controlling the TV with the Supplied Remote” (page 62) and refer to the operating instructions of the TV.

Note
• Depending on the connected component, the Control for HDMI function may not work. Refer to the operating instructions supplied with the component.
• The Control for HDMI function may not work if you connect a component other than Sony, even if the component is compatible with the Control for HDMI function.

Preparing for the Control for HDMI function

(Control for HDMI - Easy Setting)
The system is compatible with the Control for HDMI - Easy Setting function. If the TV is compatible with the Control for HDMI - Easy Setting function, you can set the system’s [CONTROL FOR HDMI] function automatically by setting the TV. For details, refer to the operating instructions of the TV.

If the TV is not compatible with the Control for HDMI - Easy Setting function, set the Control for HDMI function of the system and TV manually.

Note
• Displayed items vary depending on the country model.

1 Make sure that the system and the TV are connected with an HDMI cable.
2 Turn on the TV and press I/Ô to turn on the system.
3 Switch the input selector on your TV so that the signal from the system through the HDMI input appears on the TV screen.
4 Set the Control for HDMI function of the system and TV.
For details of the setting of the system, see the following Steps. For details of the setting of the TV, refer to the operating instructions of the TV (depending on the TV, the default setting of the Control for HDMI function is set to off).
To set the [CONTROL FOR HDMI] function to on/off

1. Press FUNCTION +/- repeatedly until “DVD” appears in the front panel display.

2. Press DISPLAY while the system is in stop mode. The Control Menu display appears on the TV screen.


4. Press ↑/↓ to select [CUSTOM], then press +. The Setup Display appears.


7. Press ↑/↓ to select the setting, then press +.
   - [OFF]: Off.
   - [ON]: On.

Note
- When [Please verify the HDMI connection.] appears, make sure the HDMI connection is correct.

Using the Theater Mode

(Theater Mode)
If your TV is compatible with the Theater Mode, you can enjoy optimal image suited for movies and the sound is output from the system’s speaker automatically by pressing THEATER.

Watching DVD by a single button press

(One-Touch Play)
By only pressing ONE-TOUCH PLAY, the TV turns on, the TV is set for DVD input mode, and the system starts playing a disc automatically.

The One-Touch Play also works when:
- You press △ while the disc tray is opened and ▶ appears in the front panel display.
- You close the disc tray by pressing the disc tray.
- You press DVD TOP MENU/DVD MENU and ▶ appears in the front panel display.
- You select the “DVD” function by pressing FUNCTION +/- and ▶ appears in the front panel display.

Note
- One-Touch Play does not work when you press ▶.

The system and TV work as follows (e.g.):

<table>
<thead>
<tr>
<th>This system</th>
<th>TV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turns on. (If not already turned on.)</td>
<td>Turns on. (If not already turned on.)</td>
</tr>
<tr>
<td>Switches to “DVD” function.</td>
<td>Switches to HDMI input.</td>
</tr>
<tr>
<td>Minimizes sound level.</td>
<td>(System Audio Control)</td>
</tr>
</tbody>
</table>

Note
- Make sure the HDMI connection is correct, and set the [CONTROL FOR HDMI] to [ON].
- Depending on the TV, the beginning of the content may not be played back.
- Depending on the disc, playback may take a while to start.

Turning the system off in sync with the TV

(System Power Off)
When you turn the TV off by using the POWER button on the TV’s remote or TV I/O on the system’s remote, the system turns off automatically.

Note
- Before using the System Power Off function, set the function for TV power. For details, refer to the operating instructions of the TV.
- Depending on the status of the system (ex. while other than “DVD” or “TV/VIDEO” function, or playing a CD), the system may not turn off automatically.
Enjoying TV sound from the speakers in this system

(System Audio Control)
You can enjoy TV sound in this system by easy operation.
To use this function, connect the system and the TV with an audio cord (not supplied) and an HDMI cable (not supplied) (page 15).

Depending on the TV, when you set the system to the “TV/VIDEO” function, the System Audio Control function is activated. TV sound is output from the system speakers, and the volume of the TV speakers is minimized automatically.

You can use the System Audio Control function as follows:
• While you are watching the TV and the function of the system is switched to “TV/VIDEO,” TV sound is output from the system speakers automatically.
• You can control the system’s volume by the remote of the TV.
• If you turn the system off or set the function of the system to other than “TV/VIDEO,” TV sound is output from the TV speakers.

You can also operate the System Audio Control function from the TV menu. For details, refer to the operating instructions of the TV.

Note
• If the TV is turned on before turning on the system, TV sound will not be output for a moment.
• While the TV is in PAP (picture and picture) mode, the System Audio Control function will not work. When the TV exits PAP mode, the output method of the TV returns to the one before PAP mode.
• If you select a TV program during DVD playback with the system, the “TV/VIDEO” function is automatically set to output TV sound.
• When you activate One-Touch Play during watching TV, the System Audio Control function is activated and the TV sound is muted.

(Tip)
• You can connect the system and the TV audio digitally. For details, see (page 17).

Setting the Maximum Volume Level of the System

(Volume Limit)
If you change the output method of the TV to the system speaker on the TV menu or by pressing THEATER* or THEATRE*, loud sound may be output depending on the volume level of the system. You can prevent this by limiting the maximum level of the volume. For details, see “[VOLUME LIMIT]” (page 48).
* The button name differs depending on the area.
Using the DIGITAL MEDIA PORT Adapter

The DIGITAL MEDIA PORT (DMPORT) adapter is for enjoying sound from a portable audio source or computer. By connecting a DIGITAL MEDIA PORT adapter, you can enjoy sound from the connected component on the system.

Available DIGITAL MEDIA PORT adapters vary in each area.

The DIGITAL MEDIA PORT adapter (TDM-iP10) is supplied with the system (a DIGITAL MEDIA PORT adapter other than TDM-iP10 is not supplied).

For details on connecting the DIGITAL MEDIA PORT adapter, see “To connect the DIGITAL MEDIA PORT adapter” (page 17).

**Note**
- Do not connect an adapter other than the DIGITAL MEDIA PORT adapter.
- Do not connect or disconnect the DIGITAL MEDIA PORT adapter to/from the unit while the system is turned on.
- Depending on the type of DIGITAL MEDIA PORT adapter, the images are also output. In this case, the system outputs the composite video signal only, regardless of the type of video signal.

---

**Playing the connected component on the system**

1. Press FUNCTION +/- repeatedly until “DMPORT” appears in the front panel display.

2. Start playback of the connected component.

   The sound and images from the connected component are played on the system or connected TV.

   For operation details, refer to the operating instructions of the DIGITAL MEDIA PORT adapter.

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**Tip**
- When listening to MP3 files or other compressed music using a portable audio source, you can enhance the sound. Select “A.F.D. STD” for “DEC. MODE” (page 26). To cancel, select other than “A.F.D. STD.”
- Depending on the type of DIGITAL MEDIA PORT adapter, you may be able to operate a connected component using either the buttons on the remote or the unit. The following illustration shows an example of buttons that can be used in this case.
Getting Optimal Surround Sound for a Room

[SPEAKER FORMATION]
Depending on the shape of the room, you cannot install some speakers. For the better surround sound, Sony recommends that first you decide the position of the speakers.

1. Press FUNCTION +/- repeatedly until “DVD” appears in the front panel display.
2. Press DISPLAY while the system is in stop mode.
The Control Menu display appears on the TV screen.
3. Press \(\uparrow/\downarrow\) to select [SETUP], then press \(\triangleright\).
The options for [SETUP] appear.
4. Press \(\uparrow/\downarrow\) to select [CUSTOM], then press \(\triangleright\).
The Setup Display appears.
5. Press \(\uparrow/\downarrow\) to select [AUDIO SETUP], then press \(\triangleright\).
The options for [AUDIO SETUP] appear.
6. Press \(\uparrow/\downarrow\) to select [SPEAKER FORMATION], then press \(\triangleright\).
The options for [SPEAKER FORMATION] appear.
7. Press \(\leftrightarrow\) to select a setting.
   - [STANDARD]: Select this when you install all the speakers normally.
   - [NO CENTER]: Select this when you install the front and surround speakers only.
   - [NO SURROUND]: Select this when you install the center and front speakers only.
   - [FRONT ONLY]: Select this when you install the front speakers only.
   - [ALL FRONT]: Select this when you install all the speakers in front of the listening position.
   - [ALL FRONT - NO CENTER]: Select this when you install the front and surround speakers in front of the listening position.
8. Press \(\triangleright\).
The setting is made and the confirmation display appears.
9. Press \(\leftrightarrow\) to select [YES] or [NO], then press \(\triangleright\).
   - [YES]: Continue with [AUTO CALIBRATION]. Follow the procedure from Step 7 of “Calibrating the Appropriate Settings Automatically” (page 61).
   - [NO]: Exit [SPEAKER FORMATION].

Note
- In order to enjoy the surround sound after you change the position of the speakers, Sony recommends you set [SPEAKER FORMATION], and then set [AUTO CALIBRATION] (page 61).
- When you change the [CONNECTION] setting in [SPEAKER SETUP] (page 50), the [SPEAKER FORMATION] setting returns to [STANDARD].
Calibrating the Appropriate Settings Automatically

[AUTO CALIBRATION]

D. C. A. C. (Digital Cinema Auto Calibration) can set the appropriate surround sound automatically.

**Note**
- The system outputs a loud test sound when [AUTO CALIBRATION] starts. You cannot turn the volume down. Give consideration to children and neighbors.
- Make sure that the headphones are not connected to the unit. You cannot operate the following Steps with the headphones connected.

1. Press FUNCTION +/- repeatedly until “DVD” appears in the front panel display.
2. Press DISPLAY while the system is in stop mode.
   The Control Menu display appears on the TV screen.
3. Press \( \uparrow / \downarrow \) to select \( \text{SETUP} \), then press \( \) .
   The options for [SETUP] appear.
4. Press \( \uparrow / \downarrow \) to select [CUSTOM], then press \( \) .
   The Setup Display appears.
5. Press \( \uparrow / \downarrow \) to select [AUDIO SETUP], then press \( \) .
   The options for [AUDIO SETUP] appear.
6. Press \( \uparrow / \downarrow \) to select [AUTO CALIBRATION], then press \( \) .
   The options for [AUTO CALIBRATION] appear.
7. Connect the calibration mic (supplied) to the A.CAL MIC jack on the front panel.
   Set up the calibration mic at the ear level using a tripod, etc. (not supplied).
   The front of each speaker should face the calibration mic, and there should be no obstruction between the speakers and the calibration mic.
8. Press \( \leftrightarrow \) to select [YES].
9. Press \( \) .
   [AUTO CALIBRATION] starts.
   Be quiet during the measurement.

**Note**
- Avoid being in the measurement area and making noise during the measurement (about 3 minute), to avoid measurement failure. During the measurement, test signals are output from the speakers.
- The environment of the room in which the system is installed may affect measurements.
- If an error message appears, follow the message, then select [YES].
  An error message appears when:
  - the headphones are connected to the unit.
  - the calibration mic is not connected.
  - front speakers are not correctly connected.
  - surround speakers are not correctly connected.
– front and surround speakers are not correctly connected.

10 Press ←/→ to select [YES] or [NO], then press \( \text{C/c} \).

**The measurement is OK.**
Disconnect the calibration mic, then select [YES]. The result is implemented.

**The measurement is not OK.**
Follow the message, then select [YES] to retry.

**Note**
- While the Auto Calibration function works:
  - do not turn off the power.
  - do not press any button.
  - do not change the volume.
  - do not change the function.
  - do not insert or eject a disc.
  - do not connect the headphones to the unit.
  - do not disconnect the calibration mic.
- The measurement for [SUBWOOFER] is always [YES] since the system does not perform subwoofer calibration.

**Tip**
- You can check the distance between the listening position and each speaker. See page 50.

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### Controlling the TV with the Supplied Remote

You can control the TV (Sony only) by using following buttons. Use these buttons (other than TV \( \text{I/c} \), THEATER, TV INPUT, and TV VOL +/-) while pressing the TV button.

**Note**
- Depending on the TV, you may not be able to control your TV or to use some of the buttons.
- Depending on the area, the name of the button may differ.

<table>
<thead>
<tr>
<th>By pressing</th>
<th>You can</th>
</tr>
</thead>
<tbody>
<tr>
<td>TV ( \text{I/c} )</td>
<td>Turn the TV on/off.</td>
</tr>
<tr>
<td>THEATER</td>
<td>Enjoy optimal image suited for movies.</td>
</tr>
<tr>
<td>TV INPUT</td>
<td>Switch the TV’s input source between the TV and other input sources.</td>
</tr>
<tr>
<td>TV VOL +/-</td>
<td>Adjust the TV volume.</td>
</tr>
<tr>
<td>TV CH +/- (PROG +/-)</td>
<td>Select the TV channel.</td>
</tr>
<tr>
<td>Number buttons*, -/-<em>, ENTER</em></td>
<td>Select the TV channel.</td>
</tr>
<tr>
<td>TOOLS*</td>
<td>Displays the operation menu for the current display.</td>
</tr>
<tr>
<td>RETURN*</td>
<td>Return to the previous channel or layer on the menu of the TV.</td>
</tr>
<tr>
<td>MENU*</td>
<td>Display the menu of the TV.</td>
</tr>
<tr>
<td>MUTING*</td>
<td>Turn off the TV sound temporarily.</td>
</tr>
<tr>
<td>( \text{C/x/c, } \text{c/x} )</td>
<td>Select the item on the menu.</td>
</tr>
</tbody>
</table>

* Use these buttons while pressing the TV button.
Using the Sound Effect

**Reinforcing bass frequencies**

You can reinforce bass frequencies.

Press DYNAMIC BASS.

“D. BASS ON” appears in the front panel display and bass frequencies are effectively reinforced.

**To turn off the sound effect**

Press DYNAMIC BASS again.

**Enjoying the sound at low volume**

You can enjoy sound effects or dialogue, as you would in a movie theater, even at low volume. It is useful for watching movies at night.

Press NIGHT.

“NIGHT ON” appears in the front panel display and the sound effect is activated.

**Note**

- This effect does not work for a Super Audio CD. When you load a Super Audio CD during “NIGHT ON,” the sound effect turns off automatically.
- When sound is output from the center speaker, this effect is more pronounced, as speech (movie dialog, etc.) is easy to hear. When sound is not output from the center speaker, or you are using the headphones, the system optimally adjusts the volume.

**To turn off the sound effect**

Press NIGHT again.

Using the Sleep Timer

You can set the system to turn off at a preset time, so you can fall asleep listening to music. You can preset the time in 1 or 10-minutes increments.

Press SLEEP.

Each time you press SLEEP, the minutes display (the remaining time) changes by 10-minutes. When you set the sleep timer, “SLEEP” flashes in the front panel display.

**To check the remaining time**

Press SLEEP once.

**To change the remaining time**

Press SLEEP repeatedly to select the desired time.

**To cancel the sleep timer function**

Press SLEEP repeatedly until “SLEEP OFF” appears in the front panel display.

**To set the sleep timer using the system menu**

1. Press SYSTEM MENU.
2. Press ↑/↓ repeatedly until “SLEEP” appears in the front panel display, then press ⊖ or →.
3. Press ↑/↓ to select a setting.

   The minutes display (the remaining time) changes in 10-minutes.

   **Tip**

   - You can select the remaining time by pressing the number buttons. In this case, you can preset the time in 1-minute increments.
4. Press ⊖.

   The setting is made and “SLEEP” flashes in the front panel display.
5. Press SYSTEM MENU.

   The system menu turns off.
Changing the Brightness of the Front Panel Display

The brightness of the front panel display can be set to either of 2 levels.

1. Press SYSTEM MENU.
2. Press ↑/↓ repeatedly until “DIMMER” appears in the front panel display, then press ◄ or ►.
3. Press ↑/↓ to select the brightness of the front panel display.
   - “DIMMER OFF”: Bright.
   - “DIMMER ON”: Dark.
4. Press ◄.
   The setting is made.
5. Press SYSTEM MENU.
   The system menu turns off.

Viewing Information About the Disc

Viewing the playing time and remaining time in the front panel display

Press DISPLAY repeatedly.
Each time you press DISPLAY while playing the disc, the display changes:
1 → 2 → ... → 1 → ...
Some displayed items may disappear after a few seconds.

DVD VIDEO/DVD-VR
1. Playing time of the current title
2. Remaining time of the current title
3. Playing time of the current chapter
4. Remaining time of the current chapter
5. Disc name
6. Title and chapter

VIDEO CD (without PBC functions)/Super Audio CD/CD
1. Playing time of the current track
2. Remaining time of the current track
3. Playing time of the disc
4. Remaining time of the disc
5. Track name
6. Track and index*
   * VIDEO CD/Super Audio CD only.

Super VCD
1. Playing time of the current track
2. Track text
3. Track and index number

DATA CD (MP3 file)/DATA DVD (MP3 file)
1. Playing time and current track number
2. Track (file) name*
   * If an MP3 file has the ID3 tag, the system will display a folder name/track (file) name from the ID3 tag information.
   The system can support ID3 ver 1.0/1.1/2.2/2.3. ID3 ver 2.2/2.3 tag information display has priority when both ID3 ver 1.0/1.1 and ver 2.2/2.3 tags are used for a single MP3 file.
Note

- The system can only display the first level of the DVD/CD text, such as the disc name or title.
- If a file name of the MP3 file cannot be displayed, “*” will appear in the front panel display instead.
- The disc name or track name may not be displayed depending on the text.
- Playing time of MP3 files may not be displayed correctly.

Tip

- When the system is playing a VIDEO CD with PBC functions, the playing time is displayed.

Viewing the playing time and remaining time on the TV screen

1 Press DISPLAY during playback.
The following display appears on the TV screen.

![Time Information]

2 Press DISPLAY repeatedly to change the time information.
The display and the kinds of time that you can check depend on the disc you are playing.

- **DVD VIDEO/DVD-VR**
  - T **:**:**
    Playing time of the current title
  - T-**:**:**
    Remaining time of the current title
  - C **:**:**
    Playing time of the current chapter
  - C-**:**:**
    Remaining time of the current chapter

- **VIDEO CD (with PBC functions)**
  - **:**:**
    Playing time of the current scene

- **VIDEO CD (without PBC functions)/Super Audio CD/CD**
  - T **:**:**
    Playing time of the current track

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

- **DATA CD (MP3 file)/DATA DVD (MP3 file)**
  - T **:**:**
    Playing time of the current track

Note

- Characters/marks may not be displayed in some languages.
- Depending on the type of disc being played, the system can only display a limited number of characters. Also, depending on the disc, not all text characters will be displayed.

Checking the play information of the disc

To check DVD/Super Audio CD/CD text

Press DISPLAY repeatedly during playback to display text recorded in the DVD/Super Audio CD/CD.
The DVD/Super Audio CD/CD text appears only when text is recorded in the disc. You cannot change the text. If the disc does not contain text, “NO TEXT” appears.

To check DATA CD/DATA DVD (MP3 file) text

By pressing DISPLAY while playing MP3 files on a DATA CD/DATA DVD, you can display the name of the folder/MP3 file, and the audio bit rate (the amount of data per second of the current audio) on the TV screen.
The bit rate appears when the system is playing an MP3 file on a DATA CD/DATA DVD.

If an MP3 file has the ID3 tag, the system will display a folder name/track (file) name from the ID3 tag information. The system can support ID3 ver 1.0/1.1/2.2/2.3. ID3 ver 2.2/2.3 tag information display has priority when both ID3 ver 1.0/1.1 and ver 2.2/2.3 tags are used for a single MP3 file.

Checking the date information of JPEG image file

You can check the date information during playback when the Exif* tag is recorded in the JPEG image file.

Press DISPLAY twice during playback. The Control Menu display appears on the TV screen.

Date information

- “Exchangeable Image File Format” is a digital camera image format defined by the Japan Electronics and Information Technology Industries Association (JEITA).

Tips:
- Date information is [MM/DD/YYYY].
  - MM: Month
  - DD: Day
  - YYYY: Year
- Date information varies depending on the area.

Returning to the Default Settings

Returning the system parameters, such as preset stations, to the default settings

1. Press I/○ to turn on the system.
2. Press ■, ▲, and I/○ on the unit at the same time.
   “COLD RESET” appears in the front panel display and the system returns to default settings.

Returning the [SETUP] settings to the default

You can return the [SETUP] settings (page 45) other than [PARENTAL CONTROL] to the default settings.

1. Press FUNCTION +/- repeatedly until “DVD” appears in the front panel display.
2. Press DISPLAY while the system is in stop mode.
   The Control Menu display appears on the TV screen.
3. Press ↑/↓ to select [SETUP], then press ○.
   The options for [SETUP] appear.
4. Press ↑/↓ to select [CUSTOM], then press ○.
   The Setup Display appears.
5 Press ↑/↓ to select [SYSTEM SETUP], then press ○.
   The options for [SYSTEM SETUP] appear.

6 Press ↑/↓ to [RESET] and press →.

7 Press ←/→ to select [YES].
   You can also quit the process and return to the Control Menu display by selecting [NO] here.

8 Press ．
   Do not press ⅟ while resetting the system as it takes a few seconds to complete.

Note
- The [MODE (MUSIC, IMAGE)], [INTERVAL], [EFFECT], and [MULTI/2CH] settings are also return to the default settings.
Precautions

On power sources

- Unplug the unit from the wall outlet (mains) if you do not intend to use it for an extended period of time. To disconnect the cord, pull it out by the plug, never by the cord.

On placement

- Place the system in a location with adequate ventilation to prevent heat build-up in the system.
- At high volume, over long periods of time, the cabinet becomes hot to the touch. This is not a malfunction. However, touching the cabinet should be avoided. Do not place the unit in a confined space where ventilation is poor as this may cause overheating.
- Do not block the ventilation slots by putting anything on the system. The system is equipped with a high power amplifier. If the ventilation slots are blocked, the unit can overheat and malfunction.
- Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation slots.
- Do not install the unit near heat sources such as radiators, or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration, or shock.
- Do not install the unit in an inclined position. It is designed to be operated in a horizontal position only.
- Keep the unit and discs away from components with strong magnets, such as microwave ovens, or large loudspeakers.
- Do not place heavy objects on the unit.

On operation

- If the system 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 control unit. Should this occur, the system may not operate properly. In this case, remove the disc and leave the system turned on for about half an hour until the moisture evaporates.
- When you move the system, take out any disc. If you don’t, the disc may be damaged.
- If anything falls into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.

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 suddenly 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 system, please consult your nearest Sony dealer.

On cleaning discs, disc/lens cleaners

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

On your TV’s color

- If the speakers should cause the TV screen to have color irregularity, turn off the TV then turn it on after 15 to 30 minutes. If color irregularity should persist, place the speakers further away from the TV set.

IMPORTANT NOTICE

Caution: This system 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.

On moving the system

Before moving the system, make sure that there is no disc inserted, and remove the AC power cord (mains lead) from the wall outlet (mains).
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.

• 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.

This system can only play back a standard circular disc. Using neither standard nor circular discs (e.g., card, heart, or star shape) may cause a malfunction.

Do not use a disc that has a commercially available accessory attached, such as a label or ring.
Troubleshooting

If you experience any of the following difficulties while using the system, use this troubleshooting guide to help remedy the problem before requesting repairs. Should any problem persist, consult your nearest Sony dealer. Note that if service personnel changes some parts during repair, these parts may be retained.

Power

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>The power is not turned on.</td>
<td>• Check that the AC power cord (mains lead) is connected securely.</td>
</tr>
<tr>
<td></td>
<td>• Press ( \text{I/O} ) after “STANDBY” disappears from the front panel display.</td>
</tr>
<tr>
<td>If “PROTECTOR” and “PUSH POWER” appear alternately in the front panel display.</td>
<td>Press ( \text{I/O} ) to turn off the system, and check the following items after “STANDBY” disappears.</td>
</tr>
<tr>
<td></td>
<td>• Are the + and – speaker cords short-circuited?</td>
</tr>
<tr>
<td></td>
<td>• Are you using only the specified speakers?</td>
</tr>
<tr>
<td></td>
<td>• Is anything blocking the ventilation holes of the system?</td>
</tr>
<tr>
<td></td>
<td>• After checking the above items and fixing any problems, turn on the system. If the cause of the problem cannot be found even after checking all the above items, consult your nearest Sony dealer.</td>
</tr>
</tbody>
</table>

Picture

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>There is no picture.</td>
<td>• The video connecting cords are not connected securely.</td>
</tr>
<tr>
<td></td>
<td>• The video connecting cords are damaged.</td>
</tr>
<tr>
<td></td>
<td>• The unit is not connected to the correct TV input jack (page 15).</td>
</tr>
<tr>
<td></td>
<td>• The video input on the TV is not set so that you can view pictures from the system.</td>
</tr>
<tr>
<td></td>
<td>• Check the output method on your system (page 15).</td>
</tr>
<tr>
<td></td>
<td>• You have set progressive format but your TV cannot accept the signal in progressive format. In this case, return the setting to interlace format (the default setting) (page 23).</td>
</tr>
<tr>
<td></td>
<td>• Even if your TV is compatible with progressive format (525p/625p) signals, the image may be affected when you set progressive format. In this case, return the setting to interlace format (the default setting) (page 23).</td>
</tr>
<tr>
<td></td>
<td>• Re-connect the connecting cord securely.</td>
</tr>
<tr>
<td></td>
<td>• The unit is connected to an input device that is not HDCP (High-bandwidth Digital Content Protection) compliant (“HDMI” on the front panel does not light up) (page 15).</td>
</tr>
<tr>
<td></td>
<td>• If the HDMI OUT jack is used for video output, changing the type of video signal output from the HDMI OUT jack. It may solve the problem (page 23). Connect the TV and the unit using a video jack other than the HDMI OUT, and switch the TV’s input to the connected video input so that you can see the on-screen displays. Change the type of video signal output from the HDMI OUT jack, and switch the TV’s input back to HDMI. If the picture still does not appear, repeat the Steps and try other options.</td>
</tr>
<tr>
<td></td>
<td>• You have set [PROGRESSIVE (COMPONENT OUT)] in [VIDEO SETUP] to [ON] (page 46) even though your TV cannot accept the progressive signal. In this case, disconnect the HDMI cable from the unit and then set to [OFF].</td>
</tr>
</tbody>
</table>
### Sound

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>There is no sound.</td>
<td>• The speaker cord is not connected securely.</td>
</tr>
<tr>
<td></td>
<td>• Press MUTING on the remote if &quot;MUTING ON&quot; is displayed in the front panel display.</td>
</tr>
<tr>
<td></td>
<td>• The system is in pause mode or in Slow-motion Play mode. Press [ \rightarrow ] to return to normal play mode.</td>
</tr>
<tr>
<td></td>
<td>• Fast forward or fast reverse is performed. Press [ \rightarrow ] to return to normal play mode.</td>
</tr>
<tr>
<td></td>
<td>• Check the speaker settings (page 50).</td>
</tr>
<tr>
<td></td>
<td>• Super Audio CD audio signals are not output from the HDMI OUT jack.</td>
</tr>
<tr>
<td></td>
<td>• The component connected to the HDMI OUT jack does not conform to the audio signal format, in this case set [AUDIO (HDMI)] in [HDMI SETUP] to [ON] (page 48).</td>
</tr>
<tr>
<td>No sound is output from the HDMI OUT jack.</td>
<td>• Set [AUDIO (HDMI)] in [HDMI SETUP] to [ON] (page 48).</td>
</tr>
<tr>
<td></td>
<td>• The HDMI OUT jack is connected to a DVI (Digital Visual Interface) device (DVI (Digital Visual Interface) jacks do not accept audio signals).</td>
</tr>
<tr>
<td></td>
<td>• The HDMI OUT jack does not output Super Audio CD sound.</td>
</tr>
<tr>
<td></td>
<td>• Try the following: ① Turn the system off and on again. ② Turn the connected component off and on again. ③ Disconnect and then connect the HDMI cable again.</td>
</tr>
<tr>
<td>The left and right sounds are unbalanced or reversed.</td>
<td>• Check that the speakers and components are connected correctly and securely.</td>
</tr>
<tr>
<td>There is no sound from the subwoofer.</td>
<td>• Check the speaker connections and settings (pages 14, 50).</td>
</tr>
<tr>
<td></td>
<td>• Select “A.F.D. STD” for “DEC. MODE” (page 26).</td>
</tr>
</tbody>
</table>
### Symptom | Remedy
---|---
Severe hum or noise is heard. | • Check that the speakers and components are connected securely.  
• Check that the connecting cords are away from a transformer or motor, and at least 3 meters (10 ft) away from your TV set or a fluorescent light.  
• Move your TV away from the audio components.  
• The plugs and jacks are dirty. Wipe them with a cloth slightly moistened with alcohol.  
• Clean the disc.  

The sound loses stereo effect when you play a VIDEO CD, a CD, or an MP3 file. | • Set [AUDIO] to [STEREO] by pressing AUDIO (page 31).  
• Make sure the unit is connected properly.  

The surround effect is difficult to hear when you are playing a sound track of Dolby Digital, DTS, or MPEG audio. | • Make sure the “DEC. MODE” setting (page 26).  
• Check the speaker connections and settings (pages 14, 50).  
• Depending on the DVD, the output signal may not be the entire 5.1 channel. It may be monaural or stereo even if the sound track is recorded in Dolby Digital or MPEG audio format.  

The sound comes from the center speaker only. | • Depending on the disc, the sound may come from the center speaker only.  

No sound is heard from the center speaker. | • Check the speaker connections and settings (pages 14, 50).  
• Make sure the “DEC. MODE” setting (page 26).  
• Depending on the source, the effect of the center speaker may be less noticeable.  
• A 2 channel source is being played.  

No sound or only a very low-level sound is heard from the surround speakers. | • Check the speaker connections and settings (pages 14, 50).  
• Make sure the “DEC. MODE” setting (page 26).  
• Depending on the source, the effect of the surround speakers may be less noticeable.  
• A 2 channel source is being played.  

There is no sound from the DIGITAL IN COAXIAL/OPTICAL jack. | • The sampling frequency of the input signal is more than 48 kHz.  

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### Operation

#### Symptom | Remedy
---|---
Radio stations cannot be tuned in. | • Check that the antenna (aerial) is connected securely. Adjust the antenna (aerial) or connect an external antenna (aerial) if necessary.  
• The signal strength of the stations is too weak (when tuning in with automatic tuning). Use direct tuning.  
• No stations have been preset or the preset stations have been cleared (when tuning by scanning preset stations). Preset the stations (page 53).  
• Press DISPLAY so that the frequency appears in the front panel display.  

Noise is heard on AM radio. | • Check the location of the AM loop antenna (aerial) and cord (page 19).  

The remote does not function. | • There are obstacles between the remote and the unit.  
• The distance between the remote and the unit is too far.  
• The remote is not pointed at the remote sensor on the unit.  
• The batteries in the remote are weak.
<table>
<thead>
<tr>
<th>Symptom</th>
<th>Remedy</th>
</tr>
</thead>
</table>
| The disc does not play.                                                | • There is no disc inserted.  
• The disc is upside down.  
  Insert the disc with the playback side facing down.  
• The disc is skewed on the disc tray.  
• The system cannot play CD-ROMs, etc. (page 5).  
• The region code on the DVD does not match the system.  
• Moisture has condensed inside the unit and may cause damage to the lenses.  
  Remove the disc and leave the unit turned on for about half an hour. |
| The MP3 file cannot be played.                                         | • The DATA CD is not recorded in the MP3 format that conforms to ISO 9660 Level 1/Level 2, or Joliet.  
• The DATA DVD is not recorded in an MP3 format that conforms to UDF (Universal Disk Format).  
• The MP3 file does not have the extension “.MP3.”  
• The data is not formatted in MP3 even though it has the extension “.MP3.”  
• The data is not MPEG1 Audio Layer 3 data.  
• The system cannot play audio tracks in MP3PRO format.  
• The [MODE (MUSIC, IMAGE)] setting has been set to [IMAGE] (page 41).  
• If you cannot change the [MODE (MUSIC, IMAGE)] setting, re-load the disc or turn the system off, then on. |
| The JPEG image file cannot be played.                                  | • The DATA CD is not recorded in a JPEG format that conforms to ISO 9660 Level 1/Level 2, or Joliet.  
• The DATA DVD is not recorded in a JPEG format that conforms to UDF (Universal Disk Format).  
• It has an extension other than “.JPEG” or “.JPG.”  
• It is larger than 3,072 (width) × 2,048 (height) in normal mode, or more than 2,000,000 pixels in Progressive JPEG image file which is mainly used on the Internet WEB site.  
• It does not fit the TV screen (those images are reduced).  
• The [MODE (MUSIC, IMAGE)] setting has been set to [MUSIC] (page 41).  
• If you cannot change the [MODE (MUSIC, IMAGE)] setting, re-load the disc or turn the system off, then on. |
| The MP3 files and JPEG image files start playing simultaneously.        | • [AUTO] has been selected in [MODE (MUSIC, IMAGE)] (page 41).                                                                                                                                                                                                                                                                 |
| The titles of folder/file/file name are not displayed correctly.        | • The system can only display numbers and letters of the alphabets. Other characters are displayed as [*].                                                                                                                                                                                                                       |
| A disc does not start playing from the beginning.                      | • Program Play, Shuffle Play, or Repeat Play has been selected.  
  Press CLEAR to cancel these functions before playing a disc.  
• Resume Play has been selected.  
  During stop, press ■ on the unit or the remote and then start playback (page 33).  
• The title, DVD or PBC menu automatically appears on the TV screen. |
<p>| The system starts playing the disc automatically.                     | • The DVD features an auto playback function.                                                                                                                                                                                                                                                                                       |
| Playback stops automatically.                                         | • Some discs may contain an auto pause signal. While playing such a disc, the system stops playback at the auto pause signal.                                                                                                                                                                                                                              |
| You cannot perform some functions such as stop, search, Slow-motion Play, or Repeat Play. | • Depending on the disc, you may not be able to perform some of the operations above. Refer to the operating instructions supplied with the disc.                                                                                                                                                                                                                   |</p>
<table>
<thead>
<tr>
<th>Symptom</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Messages do not appear on the TV screen in the language you want.</td>
<td>• In the Setup Display, select the desired language for the on-screen display in [OSD] under [LANGUAGE SETUP] (page 45).</td>
</tr>
<tr>
<td>The language for the sound track cannot be changed.</td>
<td>• Multilingual tracks are not recorded on the DVD being played.</td>
</tr>
<tr>
<td>The subtitle language cannot be changed.</td>
<td>• Multilingual subtitles are not recorded on the DVD being played.</td>
</tr>
<tr>
<td>The subtitle cannot be turned off.</td>
<td>• The DVD prohibits changing the subtitles.</td>
</tr>
<tr>
<td>The subtitle cannot be turned off.</td>
<td>• The DVD prohibits turning off subtitles.</td>
</tr>
<tr>
<td>The angles cannot be changed.</td>
<td>• Multi-angles are not recorded on the DVD being played (page 30).</td>
</tr>
<tr>
<td>The angles cannot be changed.</td>
<td>• The DVD prohibits changing the angles.</td>
</tr>
<tr>
<td>A disc cannot be ejected and “LOCKED” appears in the front panel display.</td>
<td>• Contact your Sony dealer or local authorized Sony service facility.</td>
</tr>
<tr>
<td>[Data error] appears on the TV screen when playing a DATA CD or DATA DVD.</td>
<td>• The MP3 file/JPEG image file you want to play is broken.</td>
</tr>
<tr>
<td>The system does not work normally.</td>
<td>• The data is not MPEG1 Audio Layer 3 data.</td>
</tr>
<tr>
<td>The system does not work normally.</td>
<td>• The JPEG image file format does not conform to DCF.</td>
</tr>
<tr>
<td>The system does not work normally.</td>
<td>• The JPEG image file has the extension “.JPG” or “.JPEG,” but is not in JPEG format.</td>
</tr>
<tr>
<td>The Control for HDMI function does not work.</td>
<td>• Disconnect the AC power cord (mains lead) from the wall outlet (mains), then reconnect after several minutes.</td>
</tr>
<tr>
<td>No sound is output from the system and TV while using the System Audio Control function.</td>
<td>• When “HDMI” does not light up in the front panel display, check the HDMI connection (page 15).</td>
</tr>
<tr>
<td>No sound is output from the system and TV while using the System Audio Control function.</td>
<td>• Set the [CONTROL FOR HDMI] setting in [HDMI SETUP] to [ON] (page 48).</td>
</tr>
<tr>
<td>No sound is output from the system and TV while using the System Audio Control function.</td>
<td>• Make sure that the connected TV is compatible with the System Audio Control function.</td>
</tr>
<tr>
<td>No sound is output from the system and TV while using the System Audio Control function.</td>
<td>• For details, see “Using the Control for HDMI Function for “BRAVIA” Sync” (page 56).</td>
</tr>
</tbody>
</table>
Self-diagnosis Function

*(When letters/numbers appear in the display)*

When the self-diagnosis function is activated to prevent the system from malfunctioning, a 5-character service number (e.g., C 13 50) with a combination of a letter and 4 digits appears on the TV screen or front panel display. In this case, check the following table.

<table>
<thead>
<tr>
<th>First 3 characters of the service number</th>
<th>Cause and/or corrective action</th>
</tr>
</thead>
<tbody>
<tr>
<td>C 13</td>
<td>The disc is dirty.</td>
</tr>
<tr>
<td></td>
<td>➔ Clean the disc with a soft cloth (page 69).</td>
</tr>
<tr>
<td>C 31</td>
<td>The disc is not inserted correctly.</td>
</tr>
<tr>
<td></td>
<td>➔ Restart the system, then re-insert the disc correctly.</td>
</tr>
<tr>
<td>E XX (XX is a number)</td>
<td>To prevent a malfunction, the system has performed the self-diagnosis function.</td>
</tr>
<tr>
<td></td>
<td>➔ Contact your nearest Sony dealer or local authorized Sony service facility and give the 5-character service number.</td>
</tr>
<tr>
<td></td>
<td>Example: E 61 10</td>
</tr>
</tbody>
</table>

When displaying the version number on the TV screen

When you turn on the system, the version number [VER.X.XX] (X is a number) may appear on the TV screen. Although this is not a malfunction and for Sony service use only, normal system operation will not be possible. Turn off the system, and then turn on the system again to operate.
Specifications

AUDIO POWER SPECIFICATIONS for the US model
POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 3 ohms loads, both channels driven, from 180 - 20,000 Hz; rated 84 watts per channel minimum RMS power, with no more than 0.7% total harmonic distortion from 250 milli watts to rated output.

Amplifier Section
Surround mode (reference) RMS output power
FL/FR/C/SL/SR*: 142 watts (per channel at 3 ohms, 1 kHz, 10% THD)
Subwoofer*: 140 watts (at 3 ohms, 80 Hz, 10% THD)

* Depending on the decoding mode settings and the source, there may be no sound output.

Inputs (Analog)
TV/VIDEO (AUDIO IN) Sensitivity: 450/250 mV
AUDIO IN Sensitivity: 250/125 mV

Inputs (Digital)
TV/VIDEO (COAXIAL IN/OPTICAL IN) Impedance: 75 ohms/-

Outputs (Analog)
Phones Accepts low- and high-impedance headphones.

Super Audio CD/DVD System
Laser Semiconductor laser
(Super Audio CD/DVD: $\lambda = 650 \text{ nm}$)
(CD: $\lambda = 790 \text{ nm}$)
Emission duration: continuous

Signal format system NTSC

Tuner Section
System PLL quartz-locked digital synthesizer
FM tuner section Tuning range
North American models: 87.5 MHz - 108.0 MHz (100 kHz step)
Other models: 87.5 MHz - 108.0 MHz (50 kHz step)
Antenna (aerial) FM wire antenna (aerial)
Antenna (aerial) terminals 75 ohms, unbalanced
Intermediate frequency 10.7 MHz

AM tuner section Tuning range
North American, Mexican, and Latin American models:
530 kHz - 1,710 kHz (with the interval set at 10 kHz)
531 kHz - 1,710 kHz (with the interval set at 9 kHz)

European, Russian, and Middle Eastern models:
531 kHz - 1,602 kHz (with the interval set at 9 kHz)

Australian and New Zealand models:
531 kHz - 1,710 kHz (with the interval set at 9 kHz)
530 kHz - 1,710 kHz (with the interval set at 10 kHz)

Other models:
531 kHz - 1,602 kHz (with the interval set at 9 kHz)
530 kHz - 1,610 kHz (with the interval set at 10 kHz)

Antenna (aerial) AM loop antenna (aerial)

Intermediate frequency 450 kHz

Video Section
Outputs VIDEO: 1 Vp-p 75 ohms
COMPONENT: Y: 1 Vp-p 75 ohms
Pa/Cb, Ps/Cs: 0.7 Vp-p 75 ohms
HDMI OUT: Type A (19 pin)

Speakers
Front/Surround (SS-TS80)
Speaker system Full range Bass reflex, Magnetically Shielded
Speaker unit 65 mm (2 3/8 in) cone type
Rated impedance 3 ohms
Dimensions (approx.) 103 mm x 164 mm x 82 mm (4 1/8 in x 6 1/2 in x 3 1/4 in) (w/h/d)
Mass (approx.) 0.6 kg (1 lb 6 oz)

Center (SS-CT80)
Speaker system Full range Bass reflex, Magnetically Shielded
Speaker unit 65 mm (2 3/8 in) cone type
Rated impedance 3 ohms
Dimensions (approx.) 265 mm x 93 mm x 71 mm (10 1/2 in x 3 3/4 in x 2 7/8 in) (w/h/d)
Mass (approx.) 0.7 kg (1 lb 9 oz)

Subwoofer (SS-WS80)
Speaker system Subwoofer Bass reflex
Speaker unit 160 mm (6 3/8 in) cone type
Rated impedance 3 ohms
Dimensions (approx.) 205 mm × 325 mm × 325 mm (8 1/8 in × 12 7/8 in × 12 7/8 in) (w/h/d)
Mass (approx.) 5.2 kg (12 lb 3 oz)

**General**

**Power requirements**
120 V AC, 60 Hz

**Power consumption**
On: 155 W
Standby: 0.3 W (at the Power Saving mode)

Output voltage (DIGITAL MEDIA PORT)
DC 5 V

Output current (DIGITAL MEDIA PORT)
700 mA

Dimensions (approx.)
430 mm × 66 mm × 385 mm (17 in × 2 5/8 in × 15 1/4 in) (w/h/d) incl. projecting parts

Mass (approx.)
4.2 kg (9 lb 5 oz)

Design and specifications are subject to change without notice.

- Standby power consumption 0.3 W.
- Halogenated flame retardants are not used in the printed wiring boards.
- Over 85% power efficiency of amplifier block is achieved with the full digital amplifier, S-master.

---

**Glossary**

**Digital Cinema Auto Calibration**
Digital Cinema Auto Calibration was developed by Sony to automatically measure and adjusts the speaker settings to your listening environment in a short period of time.

**Dolby Digital**
This movie theater sound format is more advanced than Dolby Surround Pro Logic. In this format, the surround speakers output stereo sound with an expanded frequency range, and a subwoofer channel for deep bass is independently provided. This format is also called “5.1” with the subwoofer channel designed as the 0.1 channel (since it functions only when a deep bass effect is needed). All six channels in this format are recorded separately for superior channel separation. Furthermore, since all the signals are processed digitally, less signal degradation occurs.

**Dolby Pro Logic II**
Dolby Pro Logic II creates five full-bandwidth output channels from 2 channel sources. This is done using an advanced, high-purity matrix surround decoder that extracts the spatial properties of the original recording without adding any new sounds or tonal colorations.

- **Movie mode**
The Movie mode is for use with stereo television shows and all programs encoded in Dolby Surround. The result is enhanced sound field directionality that approaches the quality of discrete 5.1-channel sound.

- **Music mode**
The Music mode is for use with any stereo music recordings, and provides a wide and deep sound space.

**Dolby Surround Pro Logic**
As one method of decoding Dolby Surround, Dolby Surround Pro Logic produces four channels from 2 channel sound. Compared with the former Dolby Surround system, Dolby Surround Pro Logic reproduces left-to-right panning more naturally and localizes sounds more precisely. To take full advantage of Dolby Surround Pro Logic, you should have one pair of...
surround speakers and a center speaker. The surround speakers output monaural sound.

**DTS**
Digital audio compression technology developed by DTS, Inc. This technology conforms to 5.1-channel surround. This format comprises of stereo rear channel and there is discrete subwoofer channel in this format. DTS provides the same 5.1 discrete channels of high quality digital audio. The good channel separation is realized due to the all channel data being recorded discretely and processed in digitally.

**HDMI (High-Definition Multimedia Interface)**
HDMI is an interface that supports both video and audio on a single digital connection, allowing you to enjoy high quality digital picture and sound. The HDMI specification supports HDCP (High-bandwidth Digital Content Protection), a copy protection technology that incorporates coding technology for digital video signals.

**Interlace format (Interlaced scanning)**
The Interlace format is the NTSC standard method for displaying TV images at 30 frames per second. Each frame is scanned twice - alternately between the even numbered scanning lines and then odd numbered scanning lines, at 60 times per second.

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

**Progressive format (sequential scanning)**
In contrast to the Interlace format, the progressive format can reproduce 50 - 60 frames per second by reproducing all scanning lines (525 lines for the NTSC system). The overall picture quality increases and still images, text and horizontal lines appear sharper. This format is compatible with the 525 or 625 progressive format.

**Super Audio CD**
Super Audio CD is a new high-quality audio disc standard where music is recorded in the DSD (Direct Stream Digital) format (conventional CD is recorded in the PCM format). The DSD format, using a sampling frequency 64 times higher than that of a conventional CD, and with 1-bit quantization, achieves both a wide frequency range and a wide dynamic range across the audible frequency range, and so provides music reproduction extremely faithful to the original sound.

**Super Audio CD types**
There are two types of discs, depending on the Super Audio CD layer and CD layer combination.

- **Super Audio CD layer**: A high-density signal layer for Super Audio CD
- **CD layer**: A layer that is readable by a conventional CD player

A Super Audio CD layer consists of the 2 channel area or the multi-channel area.

- **2 channel area**: An area in which 2 channel stereo tracks are recorded
- **Multi-channel area**: An area in which multi-channel (up to 5.1 channels) tracks are recorded
1) You can play the CD layer on a conventional CD player.
2) Since both layers are on one side, it is not necessary to turn the disc over.
3) To select a layer, see “To change a playback layer when playing a hybrid Super Audio CD” (page 32).
4) To select an area, see “To select a playback area on a 2 channel + Multi-channel Super Audio CD” (page 32).
### Language Code List

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

<table>
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<tr>
<th>Code Language</th>
<th>Code Language</th>
<th>Code Language</th>
<th>Code Language</th>
</tr>
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<tbody>
<tr>
<td>1027 Afar</td>
<td>1183 Irish</td>
<td>1347 Maori</td>
<td>1507 Samoan</td>
</tr>
<tr>
<td>1028 Abkhazian</td>
<td>1186 Scots Gaelic</td>
<td>1349 Macedonian</td>
<td>1508 Shona</td>
</tr>
<tr>
<td>1032 Afrikaans</td>
<td>1194 Galician</td>
<td>1350 Malayalam</td>
<td>1509 Somali</td>
</tr>
<tr>
<td>1039 Amharic</td>
<td>1196 Guarani</td>
<td>1352 Mongolian</td>
<td>1511 Albanian</td>
</tr>
<tr>
<td>1044 Arabic</td>
<td>1203 Gujarati</td>
<td>1353 Moldavian</td>
<td>1512 Serbian</td>
</tr>
<tr>
<td>1045 Assamese</td>
<td>1209 Hausa</td>
<td>1356 Marathi</td>
<td>1513 Siswati</td>
</tr>
<tr>
<td>1051 Aymara</td>
<td>1217 Hindi</td>
<td>1357 Malay</td>
<td>1514 Sesotho</td>
</tr>
<tr>
<td>1052 Azerbaijani</td>
<td>1226 Croatian</td>
<td>1358 Maltese</td>
<td>1515 Sundanese</td>
</tr>
<tr>
<td>1053 Bashkir</td>
<td>1229 Hungarian</td>
<td>1363 Burmese</td>
<td>1516 Swedish</td>
</tr>
<tr>
<td>1057 Byelorussian</td>
<td>1233 Armenian</td>
<td>1365 Nauru</td>
<td>1517 Swahili</td>
</tr>
<tr>
<td>1059 Bulgarian</td>
<td>1235 Interlingua</td>
<td>1369 Nepali</td>
<td>1521 Tamil</td>
</tr>
<tr>
<td>1060 Bihari</td>
<td>1239 Interlingue</td>
<td>1376 Dutch</td>
<td>1525 Telugu</td>
</tr>
<tr>
<td>1061 Bislama</td>
<td>1245 Inupiak</td>
<td>1379 Norwegian</td>
<td>1527 Tajik</td>
</tr>
<tr>
<td>1066 Bengali; Bangla;</td>
<td>1248 Indonesian</td>
<td>1393 Occitan</td>
<td>1528 Thai</td>
</tr>
<tr>
<td>1103 Welsh</td>
<td>1287 Georgian</td>
<td>1436 Portuguese</td>
<td>1539 Tsonga</td>
</tr>
<tr>
<td>1105 Danish</td>
<td>1297 Kazakh</td>
<td>1463 Quechua</td>
<td>1540 Tatar</td>
</tr>
<tr>
<td>1109 German</td>
<td>1298 Greenlandic</td>
<td>1481 Rhaeto-</td>
<td>1543 Twi</td>
</tr>
<tr>
<td>1130 Bhutani</td>
<td>1299 Cambodian Romance</td>
<td>1557 Ukrainian</td>
<td></td>
</tr>
<tr>
<td>1142 Greek</td>
<td>1300 Kannada</td>
<td>1482 Kirundi</td>
<td>1564 Urdu</td>
</tr>
<tr>
<td>1144 English</td>
<td>1301 Korean</td>
<td>1483 Romanian</td>
<td>1572 Uzbek</td>
</tr>
<tr>
<td>1145 Esperanto</td>
<td>1305 Kashmiri</td>
<td>1489 Russian</td>
<td>1581 Vietnamese</td>
</tr>
<tr>
<td>1149 Spanish</td>
<td>1307 Kurdish</td>
<td>1491 Kinyarwanda</td>
<td>1587 Volapük</td>
</tr>
<tr>
<td>1150 Estonian</td>
<td>1311 Kirghiz</td>
<td>1495 Sanskrit</td>
<td>1613 Wolof</td>
</tr>
<tr>
<td>1151 Basque</td>
<td>1313 Latin</td>
<td>1498 Sindhi</td>
<td>1632 Xhosa</td>
</tr>
<tr>
<td>1157 Persian</td>
<td>1326 Lingala</td>
<td>1501 Sangho</td>
<td>1665 Yoruba</td>
</tr>
<tr>
<td>1165 Finnish</td>
<td>1327 Laotian</td>
<td>1502 Serbo-</td>
<td>1684 Chinese</td>
</tr>
<tr>
<td>1166 Fiji</td>
<td>1332 Lithuanian Croatian</td>
<td>1697 Zulu</td>
<td></td>
</tr>
<tr>
<td>1171 Faroese</td>
<td>1334 Latvian;</td>
<td>1503 Singhaese</td>
<td></td>
</tr>
<tr>
<td>1174 French</td>
<td>1337 Lettish</td>
<td>1505 Slovak</td>
<td></td>
</tr>
<tr>
<td>1181 Frisian</td>
<td>1345 Malagasy</td>
<td>1506 Slovenian</td>
<td>1703 Not specified</td>
</tr>
</tbody>
</table>

### Parental Control Area Code List

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

For more information, refer to the pages indicated in parentheses.

Front panel

1. (on/standby) (21, 66)
2. (open/close) (29)
3. Front panel display (83)
4. Play operation buttons (29)
5. (remote sensor) (9)
6. FUNCTION (24)
7. VOLUME control (29)
8. PHONES jack (29)
9. AUDIO IN/A.CAL MIC jack (17, 21, 61)
10. Disc tray (29)
Rear panel

1 SPEAKER jacks (14)
2 COAXIAL 75Ω FM jack (19)
3 AM terminal (19)
4 TV/VIDEO (AUDIO IN R/L) jacks (15, 17)
5 VIDEO OUT jack (15)
6 COMPONENT VIDEO OUT jacks (15)
7 DMPORT (DIGITAL MEDIA PORT) jack (17, 59)
8 HDMI OUT jack (15)
9 TV/VIDEO (DIGITAL IN COAXIAL/OPTICAL) jacks (15)
About the indications in the front panel display

1. Playing status
2. Flashes when the sleep timer is set. (63)
3. Displays system’s status such as chapter, title, or track number, time information, radio frequency, playing status, decoding mode, etc.
4. Lights up when a station is received. (Radio only) (53)
5. Stereo/Monaural effect (Radio only) (54)
6. Lights up when the HDMI OUT jack is correctly connected to HDCP (High-bandwidth Digital Content Protection) compliant device with HDMI or DVI (Digital Visual Interface) input. (15)
7. Current surround format (Except for JPEG image file)
8. Lights up when Super Audio CD/CD is loaded. (32)
## Remote control

### ALPHABETICAL ORDER

#### A – O
- ANGLE 3 (30)
- AUDIO 16 (31)
- CLEAR 32 (34, 45, 54)
- D.TUNING 22 (54)
- DISC SKIP1) 33
- DISPLAY 21 (55, 64)
- DVD MENU 25 (37)
- DVD TOP MENU 13 (37)
- DYNAMIC BASS 6 (63)
- ENTER 2) 24 (20, 21, 32, 34, 53, 60)
- FUNCTION +/- 2 (24, 29)
- MENU 25 (62)
- MUTING 7 (29)
- NIGHT 23 (63)
- ONE-TOUCH PLAY 35 (57)

#### P – Z
- PICTURE NAVI 15 (40)
- PRESET +/- 27 (54)
- S-AIR MODE1) 4
- SLEEP 17 (63)
- SOUND MODE 5 (28)
- SUBTITLE 22 (30)
- SYSTEM MENU 24 (20, 25, 63, 64)
- THEATER 18 (56)
- TOOLS 26 (62)
- TUNING +/- 10 (53)
- TV 29 (62)
- TV CH +/- 27 (62)
- TV INPUT 20 (62)
- TV VOL +/- 34 (62)
- VOLUME +/- 8 (29)

### BUTTON DESCRIPTIONS

- Number buttons 14 (32, 53, 62)
- I/ (on/standby) 1 (20, 21, 29)
- TV I/ (on/standby) 19 (62)
- REPLAY/ADVANCE 9 (29)
- STEP 9 (29)
- SLOW 10 (29)
- (play) 30 (29)
- (stop) 28 (29)
- (pause) 11 (29)
- RETURN 31 (32, 62)

1) This button is not available for this model.

2) The ENTER button has the same function as the  button. When you operate the TV, the ENTER button is used for selecting a channel, and the  button is used for selecting menu items (page 62).

3) This button is available for the “DVD” or “DMPORT” function. Depending on the DIGITAL MEDIA PORT adapter, this button may not work.
Guide to the Control Menu Display

You can use the Control Menu display to select a function and to view related information.

Press DISPLAY repeatedly.
Each time you press DISPLAY, the Control Menu display changes:
① → ② → ... → ① → ...

① Control Menu display 1
② Control Menu display 2 (appears when available)
③ Control Menu display off

Note
• The Control Menu Display appears during the “DVD” function.

Control Menu display

The Control Menu display 1 and 2 will show different items depending on the disc type. For details, see the pages in parentheses.
Example: Control Menu display 1 when playing a DVD VIDEO.

To turn off the display
Press ☰ DISPLAY.

List of Control Menu items

<table>
<thead>
<tr>
<th>Item</th>
<th>Item Name, Function, Relevant Disc Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Title/Scene/Track Icon]</td>
<td>[TITLE] (page 37)/[SCENE] (page 37)/[TRACK] (page 37) You can select the title, scene, or track to be played.</td>
</tr>
<tr>
<td>![Chapter/Index Icon]</td>
<td>[CHAPTER] (page 37)/[INDEX] (page 37) You can select the chapter or index to be played.</td>
</tr>
<tr>
<td>![Index Icon]</td>
<td>[INDEX] (page 37) You can display the index and select the index to be played.</td>
</tr>
<tr>
<td>![Track Icon]</td>
<td>[TRACK] (page 37) You can select the track to be played.</td>
</tr>
<tr>
<td>![Original/Playlist Icon]</td>
<td>[ORIGINAL/PLAY LIST] (page 37) You can select the type of titles (DVD-RW/DVD-R) to be played, the [ORIGINAL] one, or an edited [PLAY LIST].</td>
</tr>
<tr>
<td>![Time Icon]</td>
<td>[TIME] (page 38) You can check the elapsed time and the remaining playback time. You can play from a desired point by inputting the time code (DVD VIDEO/DVD-VR only).</td>
</tr>
<tr>
<td>![Multi/2Ch Icon]</td>
<td>[MULTI/2CH] (page 32) You can select the playback area on a Super Audio CD when available.</td>
</tr>
<tr>
<td>![Super Audio CD Icon]</td>
<td>[SUPER AUDIO CD/CD LAYER] (page 32) You can select the playback layer on a Super Audio CD when available.</td>
</tr>
<tr>
<td>![Program Icon]</td>
<td>[PROGRAM] (page 34) You can select the track to play in the order you want.</td>
</tr>
</tbody>
</table>
### [SHUFFLE] (page 35)
You can play the track/file in random order.

### [REPEAT] (page 36)
You can play the entire disc (all titles/all tracks/all folders/all files) repeatedly or one title/chapter/track/folder/file repeatedly.

### [A/V SYNC] (page 42)
You can adjust the delay between the picture and sound.

### [DISC MENU] (page 37)
You can display the DVD’s menu.

### [BROWSING] (page 40)
You can display the list of folders/JPEG image files.

### [SETUP] (page 45)
[QUICK] (page 21)
You can make the basic adjustments. Use Quick Setup to select the desired language of the on-screen display, the aspect ratio of the TV, and select yes or no to start the Auto Calibration.

[CUSTOM]
In addition to the Quick Setup setting, you can adjust various other settings.

### [FOLDER] (page 37)
You can select the folder to be played.

### [FILE] (page 37)
You can select the JPEG image file to be played.

### [DATE] (page 66)
You can display the date the picture was taken by a digital camera.

### [INTERVAL] (page 41)
You can select the duration for which the slides are displayed on the TV screen.

### [EFFECT] (page 41)
You can select the effects to be used for changing slides during a slide show.

### [MODE (MUSIC, IMAGE)] (page 41)
You can select the data type; MP3 file, JPEG image file, or both to be played when playing a DATA CD/DATA DVD.

---

**Tips**
- The Control Menu icon indicator lights up in yellow when you select any item except [OFF] ([PROGRAM], [SHUFFLE], [REPEAT], and [A/V SYNC] only). The [ORIGINAL/PLAY LIST] indicator lights up in yellow when you select [PLAY LIST] (default setting). The [MULTI/2CH] indicator lights up in yellow when you select the multi-channel playback area on a Super Audio CD.
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