

Micro Hi-Fi Component System

Operating Instructions



CMT-SE5

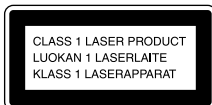
WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To prevent fire, do not cover the ventilation of the apparatus with news papers, table-cloths, curtains, etc. And don't place lighted candles on the apparatus.

To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the apparatus.

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.



This appliance is classified as a CLASS 1 LASER product. This marking is located on the side exterior.



Don't throw away the battery with general house waste, dispose of it correctly as chemical waste.

This system incorporates Dolby* Digital, 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 Digital Theater Systems, Inc. "DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc.

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How to use this manual

- This manual mainly explains operations using the remote, but the same operations can also be performed using the buttons on the unit having the same or similar names.
- The following symbols are used in this manual.





Symbol	Meaning
	Functions that can be used with DVD VIDEOS
	Functions that can be used with VIDEO CDs
	Functions that can be used with Audio CDs or Super Audio CDs
	Functions that can be used with MP3 audio tracks
	Functions available for JPEG files

Playable discs

You can play back the following discs on this system. Other discs cannot be played back.

List of playable discs


Format of discs	Disc logo
DVD VIDEOS	
VIDEO CDs	
Audio CDs	
Super Audio CDs	 SUPER AUDIO CD

Format of discs	Disc logo
CD-R/CD-RW (audio data/MP3/JPEG files)	   

The “DVD VIDEO” logo is a trademark.

Region code of DVDs you can play on this system

Your system has a region code printed on the back of the unit and will only play DVDs labelled with identical region code.

DVDs labelled  will also be played on this system.

If you try to play any other DVD, the message “Playback prohibited by area limitations.” will appear on the TV screen. Depending on the DVD, no region code indication may be labelled even though playing the DVD is prohibited by area restrictions.

Discs that this system cannot play

- CD-ROMs (except for extension “.MP3”, “.JPG”, or “.JPEG”)
- CD-Rs/CD-RWs other than those recorded in the following formats:
 - music CD format
 - video CD format
 - MP3/JPEG format that conforms to ISO9660^{*1} level 1/level 2, Joliet or Multi Session^{*2}
- Data part of CD-EXTRAS
- EXTRA data part of Super Audio CDs
- DVD-RWs in VR mode (DVD-RWs created in VR (Video Recording) mode allow the contents to be programmed or edited.)
- DVD-ROMS, DVD-RAMS
- DVD Audio discs
- A DVD with a different region code
- A disc that has a non-standard shape (e.g., card, heart)
- A disc with paper or stickers on it

continued

- A disc that has the adhesive, cellophane tape, or a sticker still left on it
- A disc that has commercially available stickers, rings or other accessories attached
- An 8 cm disc converted to a standard disc using an adaptor

*1 ISO9660 Format

The most common international standard for the logical format of files and folders on a CD-ROM. There are several specification levels. In level 1, file names must be in the 8.3 format (no more than eight characters in the name, no more than three characters in the extension “.MP3” or “.JPG”) and in capital letters. Folder names can be no longer than eight characters. There can be no more than eight nested folder levels. Level 2 specifications allow file names and folder names up to 31 characters long. Each folder can have up to 8 trees.

For Joliet in the expansion format (file and folder names can have up to 64 characters) make sure of the contents of the writing software, etc.

*2 Multi Session

Conventional CDs begin at a CD control area called the Lead-in and end at an area called Lead-out. A Multi Session CD is a CD having multiple sessions, with each segment from Lead-in to Lead-out regarded as a single session.

CD-EXTRA: This format records audio (audio CD data) on the tracks in session 1 and data on the tracks in session 2.

Notes on discs

- This system can play CD-R/CD-RW/DVD-R/DVD-RW (Ver. 1.1)/DVD+R/DVD+RW discs edited by the user (For DVD-R/DVD-RW (Ver. 1.1)/DVD+R/DVD+RW discs, this system can play only in video mode.). However, note that playback of some discs may not be possible depending on the recording device used for recording or the disc condition.
- Discs recorded on CD-R/CD-RW drives may not be played back because of scratches, dirt, recording condition or the driver’s characteristics.
- CD-R and CD-RW discs that have not been correctly finalized (processing to allow play by a normal CD player) cannot be played.
- CD-R and CD-RW discs recorded in multi-session that have not ended by “closing the session” are not supported.
- The system may be unable to play MP3/JPEG format files that do not have the extender “.MP3”, “.JPG”, or “.JPEG”.
- Attempting to play non-MP3/JPEG format files that have the extender “.MP3”, “.JPG”, or “.JPEG” may result in noise or malfunction. Playback is possible up to 8 levels.
- An album that does not include an MP3 audio track or JPEG file is skipped.
- Progressive JPEG format files cannot be played.
- JPEG images with one vertical dot cannot be displayed.
- JPEG images with 4720 or more vertical or horizontal dots cannot be displayed.
- The maximum number of albums is 99 (The maximum number of tracks that can be recorded in an MP3 or JPEG album is 250.)
- With formats other than ISO9660 level 1/level 2, folder names or file names may not be displayed correctly.

- The following discs take a longer time to start playback.
 - a disc recorded with complicated tree structure
 - a disc recorded in Multi Session
 - a disc to which data can be added (non-finalized disc)
- Some CD-Rs, CD-RWs, DVD-Rs or DVD-RWs (in video mode) (DVD-RWs created in video mode have the same format as a DVD VIDEO) cannot be played on this system depending upon the recording quality or physical condition of the disc, or the characteristics of the recording device. Furthermore, the disc will not play if it has not been correctly finalized. For more information, see the operating instructions for the recording device.
- A disc recorded in packet write format cannot be played.

Note on playback operations of DVDs and VIDEO CDs

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

Music discs encoded with copyright protection technologies

This product is designed to playback 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.

Cautions when playing a disc that is recorded in Multi Session

- This system can play Multi Session CDs when an MP3 audio track is contained in the first session. Any subsequent MP3 audio tracks recorded in later sessions can also be played back.
- This system can play Multi Session CDs 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 audio tracks and images in music CD format or video CD format are recorded in the first session, only the first session will be played back.

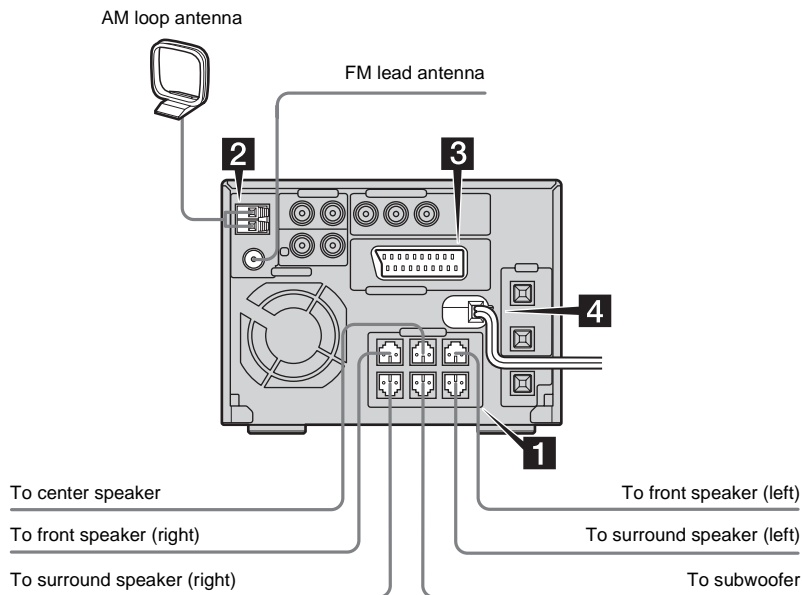
Copyrights

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.

Getting Started

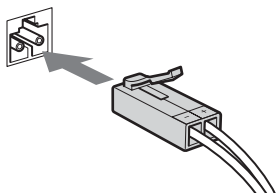
Hooking up the system

Perform the following procedures **1** to **4** to hook up your system using the supplied cords and accessories.



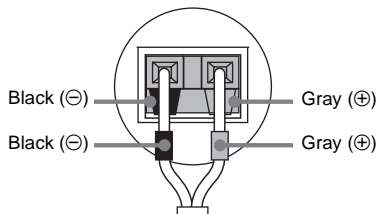
1 Connect the speakers.

Be sure to match the appropriate speaker cords from the speaker terminals to the corresponding SPEAKER terminals on the unit.



Connect	Terminal
Front speakers	SPEAKER FRONT L (white)/R (red)
Surround speakers	SPEAKER SURR L (blue)/ R (gray)
Center speaker	SPEAKER CENTER (green)
Subwoofer	SPEAKER WOOFER (purple)

Speakers



Notes

- When inserting the speaker cord plugs into the SPEAKER terminals on the unit, press in the plugs all the way until they click. When unplugging the speaker cords, press the protrusions on the plugs and pull out the plugs.
- Keep the speaker cords away from the antennas to prevent noise.
- Do not place the surround speakers on top of a TV. This may cause distortion of the colors in the TV screen.
- Be sure to connect both left and right surround speakers. Otherwise, the sound will not be heard.

Tip

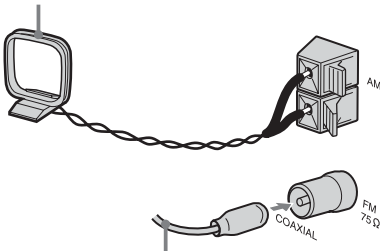
When positioning the front speakers higher than floor level, using the speaker stand WS-MC1 (not supplied) is convenient.

2 Connect the FM and AM antennas.



Set up the AM loop antenna, then connect it.



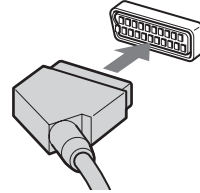
AM loop antenna



Extend the FM lead antenna horizontally

3 Connect the  INPUT jack of your TV to the  LINE-TV jack on the unit with the SCART cord (not supplied).

When you connect using the SCART cord, check that the TV conforms to S video or RGB signals. If the TV conforms to S video, change the input mode of the TV to S video. Refer to the operating instructions supplied with the TV to be connected.

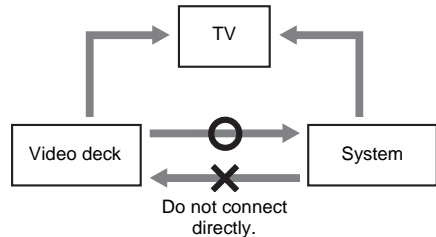


When using a TV

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

When connecting a video deck

Connect the TV and the video deck using video and audio cords (not supplied) as shown below.



If you connect a video deck between this system and the TV, you may experience video leakage when watching the video signal from this system. Do not connect a video deck between this system and the TV.

Note

Do not place the TV on this system.

Tip

To listen to TV, press FUNCTION repeatedly to select "TV".

4 Connect the mains lead to mains.

If the plug does not fit your wall socket, detach it from the plug (only for models equipped with an adapter).

To turn on the system, press I/⏻.

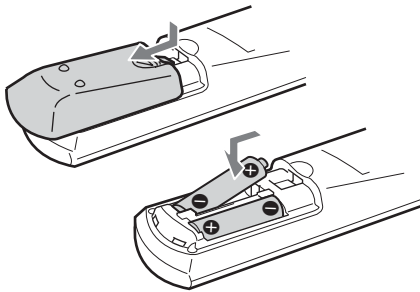
Note

When you turn on the system, the disc is not pulled into the disc slot until "No Disc" appears in the display. Do not attempt to push in the disc until "No Disc" appears, as this may cause malfunction.

To connect optional components

See page 51.

Inserting two size AA (R6) batteries into the remote



Notes

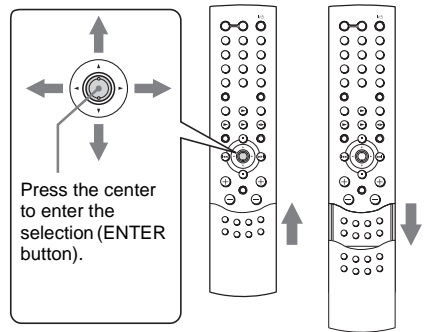
- If you do not use the remote for a long period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.
- See page 71 for the location of the remote sensor.

Tip

With normal use, the batteries should last for about six months. When the remote no longer operates the system, replace both batteries with new ones.

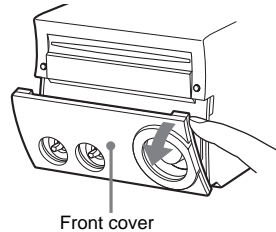
Using the remote control

- Select the item with ▲/▼/◀/▶ and press the center to enter the selection.
In this operation manual, the operation "press the center to enter the selection" is expressed as "press ENTER".
- Normally operate the remote with the cover closed. Open the cover only when operating the buttons inside the cover.



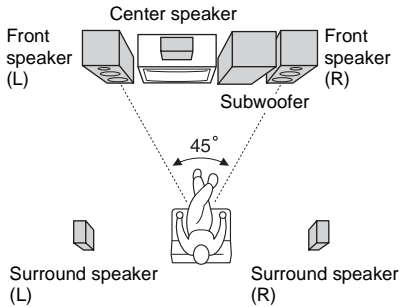
Opening the front cover

Pull down the upper right corner of the front cover on the unit.

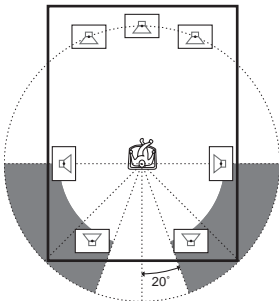


Positioning the speakers

- 1 **Place the front speakers at an angle of 45 degrees from your listening position.**



- 2 **Place the center speaker at about the same height as the front speakers.**
Align the center speaker with the front speakers or place it slightly behind the front speakers.
- 3 **Place the surround speakers.**



Position the surround speakers within the respective gray ranges.

Positioning both surround speakers the same distance from the listening position is effective.

- 4 **Place the subwoofer.**

To obtain a better bass reproduction, we recommend you to place the subwoofer on a solid floor where resonance is unlikely to occur.

Notes

- Do not place the surround speakers on top of a TV. This may cause distortion of the colors in the TV screen.
- Always place the subwoofer vertically, keeping it a few centimeters away from the wall.
- If the subwoofer is placed in the center of a room, the bass could be extremely weakened. This is due to the influence of the standing wave of the room. If this happens, move the subwoofer away from the center of the room or eliminate the cause of the standing wave, by placing a bookshelf against the wall, etc.

Speaker settings

To enjoy DVDs, Super Audio CDs and other discs with multi-channel sound and Dolby surround effects, the speakers need to be adjusted. Set the distance from the listening position to the speakers, and the balance and level. Then use the test tone to adjust the volume of each speaker to the same level. For details, see “Speaker settings” on page 34.

Setting the clock

- 1** Press I/⏻ to turn on the system.
- 2** Press CLOCK/TIMER SET.
- 3** Press I◀◀ or ▶▶I repeatedly to set the day of the week.
- 4** Press ENTER or ▶▶.
- 5** Press I◀◀ or ▶▶I repeatedly to set the hour.
- 6** Press ENTER or ▶▶.
- 7** Press I◀◀ or ▶▶I repeatedly to set the minute.
- 8** Press ENTER.

The clock starts working.

To adjust the clock

- 1** Press CLOCK/TIMER SET.
- 2** Press I◀◀ or ▶▶I repeatedly to select "CLOCK SET?", then press ENTER.
- 3** Do the same procedures as step 3 to 8 above.

Note

The clock settings are cancelled when you disconnect the mains lead or if a power failure occurs.

Selecting a language

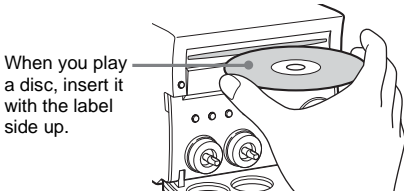
You can change the on-screen display language.

- 1** Turn on your TV and select the video input.
- 2** Press I/⏻ to turn on the system.
- 3** Press FUNCTION to switch the function to DVD.
- 4** Press DVD SETUP in stop mode.
- 5** Press ▲ or ▼ repeatedly to select "LANGUAGE SETUP", then press ENTER.
- 6** Press ▲ or ▼ repeatedly to select "OSD", then press ENTER.
- 7** Press ▲ or ▼ repeatedly to select a language from the displayed list, then press ENTER.

DVD/VIDEO CD/CD/Super Audio CD/ MP3/JPEG – Play

Loading a disc

Insert a disc in the disc slot with the label side up.



Notes

- When you turn on the system, the disc is not pulled into the disc slot until “No Disc” appears in the display. Do not attempt to push in the disc until “No Disc” appears.
- When pressing the ▲ DVD (eject) on the unit and then re-inserting the disc that appears in the disc slot, do not simply push in the disc. Remove the disc from the disc slot and then re-insert it.
- Do not use a disc with tape, seals or paste on it as this may cause malfunction.
- Do not load an 8 cm disc with an adaptor. Doing so may cause the system to malfunction.
- When you eject a disc, handle the disc by its edge. Do not touch the surface.
- If you load a disc that is not playable by this system, it will be ejected automatically.

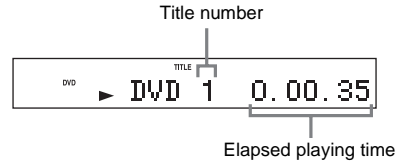
Playing a disc

— Normal Play/Shuffle Play

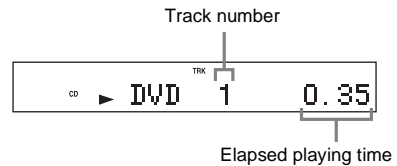


Before playing a DVD or VIDEO CD, turn on your TV and select the video input. Depending on the DVD or VIDEO CD, some operations may be different or restricted. Refer to the operating instructions supplied with the disc.

Example: When playing a DVD



Example: When playing a CD or VIDEO CD



- 1 Press **FUNCTION** repeatedly to switch the function to DVD.

2 Press PLAY MODE in stop mode repeatedly until the mode you want appears in the display.

Select	To play
No display (Normal Play)	The tracks on the disc in original order.
ALBM (Normal Play)	All MP3 audio tracks in the album on the disc in original order. When playing a non-MP3 disc, Album Play performs the same operation as Normal Play (No display).
SHUF (Shuffle Play)*	All tracks on the disc in random order.
ALBM SHUF (Shuffle Play)	The MP3 audio tracks in the album on the disc in random order. When playing a non-MP3 disc, Album Shuffle Play performs the same operation as Shuffle Play (SHUF).
PGM (Program Play)*	The tracks on the disc in the order you want them to be played (see “Creating your own program” on page 20).

* You cannot perform Shuffle Play and Program Play with DVDs.

3 Press SA-CD/DVD ►.

Tip

You can change the play mode using the on-screen display as follows:

- 1 Press DVD DISPLAY in stop mode.
The Control Menu appears.
- 2 Press ▲ or ▼ to select “PLAY MODE”, then press ENTER.
- 3 Press ▲ or ▼ to select desired play mode, then press ENTER.

Other operations

To	Do this
Stop play	Press ■.
Pause	Press ■. Press ■ again to resume play.
Select a track or chapter	Press ◀◀ or ▶▶ repeatedly during play or pause.
Select an album of MP3	Press ALBUM + or – repeatedly after step 2.
Find a point in a track (Search) ^{*1} (except for MP3 audio tracks)	Keep moving SA-CD/DVD lever on the unit to ◀◀ or ▶▶ during playback and release it at the desired point.
Locate a point quickly in fast forward or fast reverse (Lock Search) ^{*1*2} (except for MP3 audio tracks)	Press ◀◀ or ▶▶ during play. Each time you press the button, searching speed changes as follows: 1 (slow) ↔ 2 (faster than 1) For CD or Super Audio CD, searching speed does not change (1 (slow) play). To return to Normal Play, press SA-CD/DVD ►.
Watch frame by frame (Slow-motion Play) ^{*2} (DVD and VIDEO CD only)	During pause, press ◀◀ or ▶▶. Each time you press the button, the playback speed changes as follows: Playback direction 2 ►► ^{*3} ↔ 1 ►► ^{*3} Opposite direction (DVD only) 2 ◀◀ ^{*3} ↔ 1 ◀◀ ^{*3} To return to Normal Play, press SA-CD/DVD ►.
Switch to DVD function from another source	Press SA-CD/DVD ► (Automatic Source selection).
Remove a disc	Press ▲ DVD on the unit.

^{*1} During Search or Scan Play, no sound is output.

^{*2} Depending on the DVD or VIDEO CD, some operations may be restricted. The playback speeds that can be selected differ depending on the disc. Slow-motion reverse play for DVD only.

^{*3} 2 ►►/2 ◀◀ playback speed is slower than 1 ►►/1 ◀◀.

Notes

- If DVD playback is paused for approximately one hour, the system automatically turns off.
- 2 channel sound is heard when using headphones.
- You cannot change the play mode during play.
- When you change the function, DVD indicator may appear even if you do not load the disc.
- Some time may be needed to start playback of discs recorded in complex configurations such as many layers.
- This system can play Multi Session CDs when an MP3 audio track is located in the first session. Any subsequent MP3 audio tracks, recorded in the later sessions, can also be played back.
- Maximum number of albums on a disc: 99 (The maximum number of MP3 audio tracks that can be contained on an album is 250.)
- An album that does not include an MP3 audio track is skipped.
- If you put the extension “.MP3” to data not in MP3 format, the system cannot recognize the data properly and will generate a loud noise which could damage your speaker system.
- The system can play to a depth of 8 directories.
- When playing a VBR (Variable Bit Rate) MP3 disc, the displayed playing time may differ from the actual time.

Tip

When playing the data disc (CD-ROM/CD-R/CD-RW) contained MP3 audio tracks and JPEG image files, set to “MP3” in “DATA CD PRIORITY” (page 26).

Resuming playback from the point you stopped the disc

— Resume Play

This system memorizes the point where you stopped the disc so you can resume from that point. Resume Play is not cancelled when you set Power Saving Mode.

1 While playing a disc, press **■** to stop playback.
“RESUME” appears in the display. If “RESUME” does not appear, Resume Play is not available.

2 Press SA-CD/DVD **▶**.

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

Notes

- You cannot perform Resume Play during Shuffle Play or Program Play.
- Depending on where you stopped the disc, the system may resume playback from a different point.
- Resume play is cancelled when:
 - you press **■** in stop mode.
 - you disconnect the mains lead.
 - you remove a disc.
 - you change the play mode.
 - you change the settings using the DVD SETUP button.

Playing a track by entering the track number

Press the number button(s) to enter the track number of the track you want to play during Normal Play, then press ENTER to play the track. (To enter the MP3 audio track number, press ALBUM + or – repeatedly to select the desired album before entering the number.)

To enter a track number over 10

1 Enter the corresponding digits.

To enter 0, press 10/0.

2 Press ENTER.

Example:

To play track number 30, press 3 and 10/0, then press ENTER.

To play MP3 track number 100, press 1, 10/0 and 10/0, then press ENTER.

Playing DVDs using the menu

DVD

Some DVDs have menus to help you enjoy the DVDs. You can play DVDs using these menus on TV screen.

- Using the DVD top menu

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

- Using the DVD menu

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

1 Press TOP MENU or DVD MENU.

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

2 Press ▲/▼/◀/▶ or the number buttons to select the title or item you want to play.

3 Press ENTER.

Note

If the DVD top menu or a DVD menu is displayed during DVD playback for approximately one hour, the system automatically turns off.

Playing VIDEO CDs with PBC functions (Ver. 2.0)

— PBC Play



You can use PBC* menus on your TV screen to enjoy the disc’s interactive software. The menu format and structure may differ depending on each disc.

* PBC: Playback Control

1 Press SA-CD/DVD ► to start playing a VIDEO CD with PBC functions (Ver. 2.0).

The PBC menu appears on the TV screen.

2 Press ▲/▼ or the number buttons to select the item number you want.

3 Press ENTER.

4 Continue playback according to the instructions on the menus to enjoy interactive playback.

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

To go back to a previous menu

Press RETURN ⏪.

Notes

- Depending on the VIDEO CD, “Press ENTER” in step 3 may appear as “Press SELECT” in the operating instructions supplied with the disc. In this case, press SA-CD/DVD ►.
- You cannot perform Repeat Play during PBC playback of VIDEO CDs.

Tip

You can cancel playback with PBC functions.

1 In stop mode, press ◀◀/▶▶ or the number buttons to select a track.

2 Press SA-CD/DVD ► or ENTER.

“Play without PBC” appears on the TV screen and playback starts from the selected track. Still images, such as the menu screens, will not be shown.

To return to PBC playback, press ■ twice, then press SA-CD/DVD ►.

Playing JPEG Image Files



You can play JPEG image files on CD-ROMs, CD-Rs, or CD-RWs. However, the discs must be recorded according to ISO9660 level 1/level 2 or Joliet format for the system to recognize the files. You can also play discs recorded in Multi Session. See the instructions of the CD-R/RW device or recording software (not supplied) for details on the recording format.

1 Load a data disc recorded in JPEG into the system.

2 Press SA-CD/DVD ►.

The system starts to play the first JPEG image file in the first album on the disc.

Notes

- The system can play the extension “.JPG” or “.JPEG”.
- Progressive JPEG format files cannot be played on this system.
- Some CD-Rs or CD-RWs cannot be played on this system depending on file format.
- Maximum album number: 99 (including root folder)
- The maximum file number that can be contained on a single album is 250.
- Playback is possible up to 8 levels.
- An album that does not include a JPEG format file is skipped.

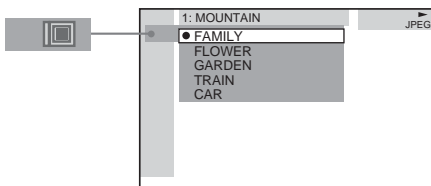
Selecting an album and file

1 Press DVD DISPLAY.

The Control Menu and the JPEG data disc name appears.

2 Press ▲ or ▼ to select “ALBUM”, then press ENTER.

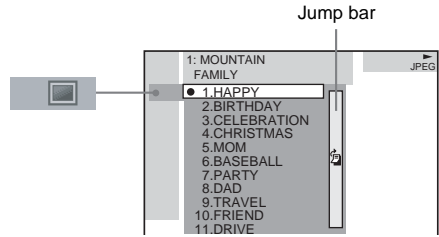
The list of albums contained in the disc appears.



3 Select an album you want to play using ▲ or ▼ and press ENTER.

4 Select “FILE” using ▲ or ▼ and press ENTER.

The list of files contained in the current album appears.



When the list of all files or albums cannot be displayed on the window, the jump bar appears. Press ► to select the jump bar icon, and then scroll the jump bar to display the rest of the list using ▲ or ▼.

5 Select a file using ▲ or ▼ and press ENTER.

The selected file starts playing.

To return the previous display

Press ◀ or RETURN ↵.

To turn off the display

Press DVD DISPLAY.

Note

Only the letters in the alphabet and numbers can be used for album or file names. Anything else is displayed as “ ”.

Tip

When a JPEG data disc is inserted, you can select an album using ALBUM + or –.

Enjoying the Slide show

1 Press **▶▶** while displaying a JPEG image.

Slide show starts from the current image.

2 Press **SA-CD/DVD ▶** when you want to return to Normal Play.

To change the interval time of Slide show

Each time you press **▶▶** during Slide show, the interval time changes as follows:



The FF3▶▶ interval time is faster than FF2▶▶.

Rotating the current image

Rotate the current image using ◀ or ▶.

Each time you press **▶**, the image turns clockwise by 90°.

Each time you press **◀**, the image turns counterclockwise by 90°.

Notes

- Slide show can play in only one direction.
- You cannot rotate the image during Slide show. Press **SA-CD/DVD ▶** to return to Normal Play before this operation.

Playing repeatedly

— **Repeat Play**



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

Using the front panel display

Press REPEAT repeatedly during play until “REP” or “REP1” appears.

REP: For all the tracks on the disc, or all the tracks in the album*¹ up to five times.

REP1: For a VIDEO CD, CD, Super Audio CD or MP3, only the current track. For a DVD, only the current title*² or chapter*².

*¹ When “ALBM” is selected for MP3 or JPEG.

*² You can check whether a title or chapter is being repeatedly played on the TV screen.

To cancel Repeat Play

Press REPEAT repeatedly until both “REP” and “REP1” disappear.

Notes


- Depending on the DVD, you cannot perform Repeat Play.
- You cannot perform Repeat Play during PBC playback of VIDEO CDs (page 16).
- You cannot select “REP1” during Program Play.
- When you select “REP1”, that title/chapter/track is repeated endlessly until “REP1” is cancelled.

Using the on-screen display

1 Press DVD DISPLAY during play.

The Control Menu appears.

2 Press ▲ or ▼ repeatedly to select “REPEAT”, then press ENTER.

If you do not select “OFF”, the “ ” indicator lights up in green.

3 Press ▲ or ▼ repeatedly to select the Repeat Play setting.

The default setting are underlined.

■ When playing a DVD

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

■ When playing a VIDEO CD/CD/Super Audio CD/MP3 when Program Play is set to OFF

- OFF: does not play repeatedly.
- ALL: repeats all the tracks on a disc, or all the tracks in the current album (MP3 only).
- TRACK: repeats the current track.

■ When playing a JPEG

- OFF: does not play repeatedly.
- ALL: repeats all the files on the disc, or repeats the current album only during Slide Show.

■ When Program Play is set to ON

- OFF: does not play repeatedly.
- ALL: repeats Program Play.

4 Press ENTER.

Repeat Play starts.

To cancel Repeat Play

Select “OFF” in step 3, or press CLEAR.


To turn off the Control Menu

Press DVD DISPLAY.

Notes

- When you remove the disc, Repeat Play is cancelled.
- Depending on the DVD, you cannot perform Repeat Play.
- You cannot perform Repeat Play during PBC playback of VIDEO CDs (page 16).
- If you select “ALL”, the program repeats up to five times.

Tips

- You can set Repeat Play when the playback is stopped. Press REPEAT repeatedly to select the setting, then press SA-CD/DVD  to start Repeat Play.
- You can quickly display the “REPEAT” status. Press REPEAT.

Creating your own program

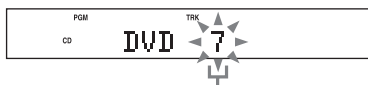
— Program Play



You can make a program of up to 25 steps.

Using the front panel display

- 1 Press FUNCTION to switch the function to DVD.**
- 2 Press PLAY MODE in stop mode repeatedly until “PGM” appears.**
- 3 Press ◀◀ or ▶▶ repeatedly until the desired title or track number appears.**
When programming an MP3, press ALBUM + or – to select album, then press ◀◀ or ▶▶ repeatedly until the desired track number appears.



Selected track number

- 4 Press ENTER.**
The track is programmed.
The program step number appears, followed by the last programmed track number.
- 5 To program additional tracks, repeat steps 3 and 4.**
- 6 Press SA-CD/DVD ▶.**
Program Play starts.

Other operations

To	Do this
Cancel Program Play	Press PLAY MODE in stop mode repeatedly until “SHUF”, “PGM” and “ALBM” disappear.
Add a track to the end of program	Perform steps 1 to 4 in stop mode.
Clear a track from the end of program	Press CLEAR after step 4.

Notes

- When you switch the play mode to “PGM” while “REP1” is selected, “REP1” is automatically cancelled.
- Program Play is cancelled when the disc is removed.

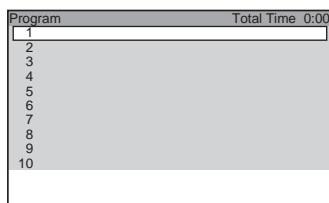
Tip

The program you made remains after Program Play finishes. To play the same program again, press SA-CD/DVD ▶. However, the program is cancelled when you remove the disc.

Using the on-screen display

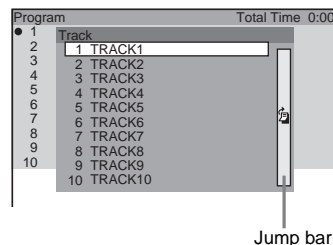
- 1 Press PLAY MODE in stop mode repeatedly until “PGM” appears in the display.**

The Program Display appears on the screen.



- 2 Press ▶.**

“Program 1” is selected.



Jump bar

When the list of all tracks cannot be displayed on the window, the jump bar appears. Press ▶ to select the jump bar icon, and then scroll the jump bar to display the rest of the list using ▲ or ▼. Press ◀ or RETURN ↵ to return to the track list.

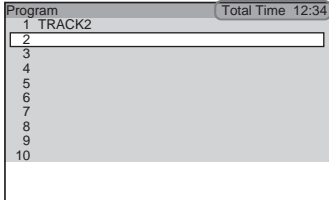
3 Select the album, or track you want to program.

■ When programming a VIDEO CD/CD/ Super Audio CD

For example, select track “2”.

Press ▲/▼ or the number buttons to select “2”, then press ENTER.

Total time of the programmed tracks (except for MP3)*



* “- -: -” appears when an MP3 audio track is selected.

■ When programming an MP3

For example, select track “3” of album “2”.

Press ▲ or ▼ to select “2”, then press ►.

Next, press ▲/▼ or the number buttons to select “3”, then press ENTER.

Press ◀ or RETURN ↵ to return to the album list before pressing ENTER.

4 To program other albums or tracks, repeat step 3.

5 Press SA-CD/DVD ►.

Program Play starts.

When the program ends, you can restart the same program again by pressing SA-CD/ DVD ►.

Notes

- Program Play function is not available for DVD and JPEG.
- When you switch the play mode to “PGM” while “REP1” is selected, “REP1” is automatically cancelled.
- Program Play is cancelled when the disc is removed.

Tip

You can also perform Repeat Play of the programmed tracks. Press REPEAT during Program Play, or set “REPEAT” to “ALL” at the Control Menu screen (page 19).

Other operations

To	Do this
Return to Normal Play	Press PLAY MODE in stop mode repeatedly until “CONTINUE” appears.
Clear a track from the end of program	Press CLEAR after step 3.

Searching for a title/ chapter/track/index/ album/file



You can search a title (DVD), chapter (DVD), track (CD, VIDEO CD, Super Audio CD, MP3), index (VIDEO CD, Super Audio CD), album (MP3, JPEG) and file (JPEG). As titles, tracks, albums and files are assigned unique numbers on the disc, you can select the desired one from the Control Menu. Also chapters and indexes are assigned unique numbers on the disc, so you can select the desired one by entering its number. Or, you can search for a particular point using the time code (Time Search).

Searching for a title/track/ album/file

1 Press DVD DISPLAY.

The Control Menu appears.

2 Press ▲ or ▼ repeatedly to select the search method.

■ When playing a DVD

“TITLE”

■ When playing a VIDEO CD without PBC function

“TRACK”

■ When playing a CD/Super Audio CD

“TRACK”

■ When playing an MP3

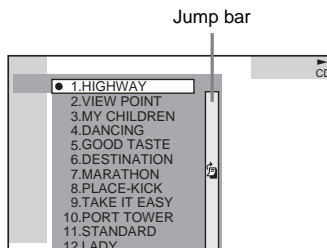
“ALBUM” or “TRACK”

■ When playing a JPEG

“ALBUM” or “FILE”

3 Press ENTER.

The list of contents in the disc appears.



When the list of all tracks or albums cannot be displayed on the window, the jump bar appears. Press ► to select the jump bar icon, and then scroll the jump bar to display the rest of the list using ▲ or ▼. Press ◀ or RETURN ↵ to return to the track or the album list.

4 Press ▲ or ▼ to select the desired title, track, album or file, then press ENTER.

The system starts playback from the selected track, etc.

Searching for a chapter/index

1 Press DVD DISPLAY.

The Control Menu appears.

2 Press ▲ or ▼ repeatedly to select the search method.

■ When playing a DVD

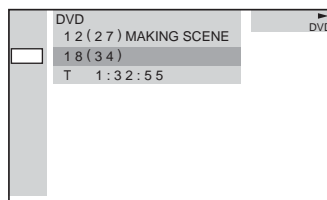
“CHAPTER”

■ When playing a VIDEO CD

“INDEX”

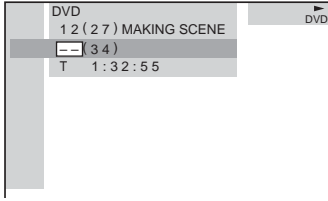
“** (**)” is selected (** refers to a number).

The number in parentheses indicates the total number of chapters or indexes.



3 Press ENTER.

“** (**)” changes to “-- (**)”.



4 Press ▲ or ▼ repeatedly, or press the number buttons to select the chapter or index number you want to search.

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

5 Press ENTER.

The playback starts from the selected number.

To turn off the Control Menu

Press DVD DISPLAY.

To cancel searching

Press ◀ or RETURN ↵.

To search for a particular point using the time code

— Time Search

1 In step 2, select “TIME”.

“T **: **: **: :” (playing time of the current title) is selected.

2 Press ENTER.

“T -- : -- : -- :” appears above “T **: **: **: :”.

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

For example, to find the scene at 2 hours, 10 minutes, and 20 seconds after the beginning, enter “2:10:20”.

Notes

- The title, chapter or track number displayed on the TV screen is recorded data on the disc.
- You cannot search a scene of a VIDEO CD.
- If you play a DVD, input the playing time of the current title using the time code. If you play a VIDEO CD, CD, Super Audio CD or MP3, input the playing time of the current track using the time code.

Tip

You can change the display to show playing time or remaining time. For details, see “Viewing information about the disc in the on-screen display” (page 49).

DVD – Various functions

Changing the sound/ subtitle/language



Changing the sound (except for JPEG)

You can select the audio language and the audio recording format while playing a DVD.

In addition, you can output the sound for either the right or left channel from both the right and left speakers while playing a CD, VIDEO CD or an MP3 file. You can also listen to only the accompaniment of a karaoke VIDEO CD, etc. Super Audio CDs have a number of recording formats such as Super Audio CDs that support multi-channel playback and Super Audio CDs recorded with both the Super Audio signal and a normal CD signal. You can select the desired signal for playback.

1 Press DVD DISPLAY during play.

The Control Menu appears.

2 Press ▲ or ▼ repeatedly to select “AUDIO”, then press ENTER.

The options for “AUDIO” appear.

3 Press ▲ or ▼ repeatedly to select the audio signal you want.

The default settings are underlined.

■ When playing a DVD

The choice of the language and audio format varies.

When 4 digits are displayed, they represent the language code (see “Language code list” on page 65). When the same language is displayed twice or more times, the DVD is recorded in multiple audio formats.

■ When playing a VIDEO CD/CD/MP3

- STEREO: Normal stereo playback
- 1/L: Left channel sound (monaural)
- 2/R: Right channel sound (monaural)

■ When playing a Super Audio CD

Make this setting in stop mode. The selectable items differ according to the disc.

- MULTI: Multi-channel area playback
- 2CH: 2-channel area playback
- CD: Normal CD layer playback

4 Press ENTER.

To turn off the Control Menu

Press DVD DISPLAY.

To preset the desired audio track

You can preset the system to the desired audio track with the operations described under “Changing the screen display language, DVD menu language and audio track auto selection mode” (page 26).

Notes

- For discs not recorded in multiple audio format, you cannot change the sound.
- Depending on the DVD, you may not be able to change the sound even if multiple audio format are recorded on the DVD.
- For VIDEO CDs, CDs and MP3 audio tracks, the setting returns to “STEREO” when you turn off the system or remove the disc.
- During DVD playback, the sound may change automatically.

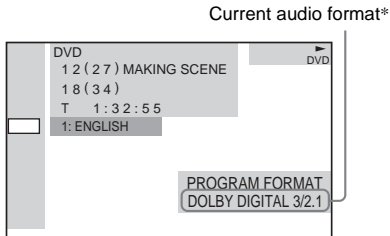
Tip

You can select the audio setting by pressing AUDIO. Each time you press the button, the setting changes.

Displaying the audio information of the disc (DVD only)

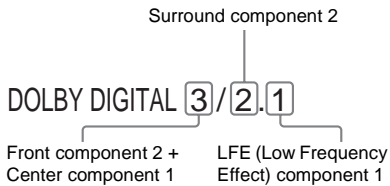
When you select “AUDIO”, the channels being played are displayed on the screen.

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



* “PCM”, “DTS”, or “DOLBY DIGITAL” is displayed. For “DOLBY DIGITAL”, the channels in the playing track are displayed numerically as follows:

For Dolby Digital 5.1 ch:



The display examples are as follows:

- PCM (stereo)

PROGRAM FORMAT
PCM 48kHz 24bit

- Dolby Surround

PROGRAM FORMAT
DOLBY DIGITAL 2/0
DOLBY SURROUND

- Dolby Digital 5.1ch

PROGRAM FORMAT
DOLBY DIGITAL 3/2.1

- DTS

PROGRAM FORMAT
DTS 3/2.1

Displaying the subtitles (DVD only)

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

For example, you can select the language you want to master and turn the subtitles on for better understanding.

1 Press DVD DISPLAY during play.

The Control Menu appears.

2 Press ▲ or ▼ repeatedly to select “SUBTITLE”, then press ENTER.

The options for “SUBTITLE” appear.

3 Press ▲ or ▼ repeatedly to select the language you want, then press ENTER.

The subtitles are displayed in the selected language.

When 4 digits are displayed, they represent the language code (see “Language code list” on page 65).

To cancel the subtitle setting

Select “OFF” in step 3.

To turn off the Control Menu

Press DVD DISPLAY.

To preset the desired subtitle

You can preset the system to the desired subtitle with the operations described under “Changing the screen display language, DVD menu language and audio track auto selection mode” (page 26).

Note

Depending on the DVD, you may not be able to change the subtitles even if multilingual subtitles are recorded on the DVD.

Tip

You can select the subtitle language by pressing SUBTITLE. Each time you press the button, the language changes.

Changing the screen display language, DVD menu language and audio track auto selection mode

— LANGUAGE SETUP/CUSTOM SETUP

1 Press DVD SETUP in stop mode.

The Setup Display appears.

2 Press ▲ or ▼ repeatedly to select “LANGUAGE SETUP” or “CUSTOM SETUP”, then press ENTER.

Select	Setup item
LANGUAGE SETUP	OSD DVD MENU AUDIO SUBTITLE
CUSTOM SETUP	PARENTAL CONTROL (page 31) TRACK SELECTION AUDIO DRC DATA CD PRIORITY JPEG DATE

3 Press ▲ or ▼ repeatedly to select an item, then press ENTER.

4 Press ▲ or ▼ repeatedly to select a setting, then press ENTER.

Note

When the selected language is not recorded on the DVD, one of the recorded languages is automatically selected (except for “OSD”).

Tips

- You can reset all the DVD settings except for Parental Control by performing the operations described under “To return the DVD setup to the default settings*, perform reset as follows:” (page 59).
- If you select “OTHERS→” in “DVD MENU”, “AUDIO” or “SUBTITLE”, select and enter the language code from the language code list using the number buttons (page 65). The selected language code (4 digits) is displayed the next time you select “OTHERS→”.

* Except for Parental Control settings

■ OSD (on-screen display)

Switches the display language on the screen. Select the language from the displayed list.

■ DVD MENU (DVD only)

Switches the language of the DVD menu. Select the language from the displayed list.

■ AUDIO (DVD only)

Switches the language of the sound track. Select the language from the displayed list.

■ SUBTITLE (DVD only)

Switches the language of the subtitle. Select the language from the displayed list.

■ TRACK SELECTION (DVD only)

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

The default setting is underlined.

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

Notes

- When you set to “AUTO”, the language setting may change. The “TRACK SELECTION” setting has higher priority than the “AUDIO” setting in “LANGUAGE SETUP”.
- If PCM, MPEG audio, DTS, and Dolby Digital sound tracks have the same number of channels, the system selects PCM, DTS, Dolby Digital, and MPEG audio sound tracks in this order.
- Depending on the DVD, the audio channel with priority may be predetermined. In this case, you cannot give priority to the DTS, or Dolby Digital or MPEG audio format by selecting “AUTO”.

■ AUDIO DRC (Dynamic Range Compression)

Narrows the DYNAMIC range of the soundtrack. Useful for watching movies at low volume late at night.

The default setting is underlined.

OFF	No compression of DYNAMIC range.
<u>STANDARD</u>	Reproduces the sound track with the kind of DYNAMIC range that the recording engineer intended.
MAX	Narrows the DYNAMIC range fully.

Note

AUDIO DRC only works in Dolby Digital.

■ DATA CD PRIORITY (MP3, JPEG only)

Set priority data you want to play, when you play the data disc (CD-ROM/CD-R/CD-RW) contained MP3 audio tracks and JPEG image files.

The default setting is underlined.

<u>MP3</u>	If an MP3 file exists on the disc, the system recognises the disc as an “MP3 Disc”. If only JPEG files exist on the disc, the system recognises the disc as a “JPEG Disc”.
JPEG	If a JPEG file exists on the disc, the system recognises the disc as a “JPEG Disc”. If only MP3 files exist on the disc, the system recognises the disc as an “MP3 Disc”.

Notes

- When you play a Multi Session data CD, the last session and any sessions linked from the last session are played.
- When you change the setting, re-insert the disc.

■ JPEG DATE

Change the date information order of a JPEG image in the Control Menu.

The default setting is underlined.

MM/DD/YYYY

YYYY/MM/DD

DD/MM/YYYY

YYYY/DD/MM

YYYY: Year

MM: Month

DD: Day

Adjusting the angle/image



Changing the angles (DVD only)

When playing a DVD on which various angles (multi-angles) for a scene are recorded, the “ANGLE” indicator lights up in green on the screen. This means that you can change the viewing angle.

For example, while playing a scene of a train in motion, you can display the view from either the front of the train, the left window of the train or from the right window without having the train’s movement interrupted.

1 Press DVD DISPLAY during play.

The Control Menu appears.

2 Press ▲ or ▼ repeatedly to select “ANGLE”.

The angle number appears. The number in parentheses indicates the total number of angles. The “ANGLE” indicator lights up in green when angles are recorded on the disc.

3 Press ► or ENTER.

The angle number changes to “-”.

4 Select the angle you want using the number buttons or ▲/▼, then press ENTER.

The angle is changed to the selected angle.

To turn off the Control Menu

Press DVD DISPLAY.

Note

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

Tip

You can select the angle by pressing ANGLE. Each time you press the button, the angle changes.

Adjusting the TV screen

— SCREEN SETUP

- 1 Press DVD SETUP in stop mode.**
The Setup Display appears.
- 2 Press ▲ or ▼ repeatedly to select “SCREEN SETUP”, then press ENTER.**
 - TV TYPE
 - SCREEN SAVER
 - BACKGROUND
 - LINE
- 3 Press ▲ or ▼ repeatedly to select an item, then press ENTER.**
- 4 Press ▲ or ▼ repeatedly to select a setting, then press ENTER.**

■ TV TYPE (DVD only)

Select the aspect ratio of the connected TV.
The default setting is underlined.

<u>16:9</u>	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. This setting displays a wide picture with bands displayed on the upper and lower portions of the screen.
4:3 PAN SCAN	Select this when you connect a 4:3 screen TV. This setting displays the wide picture on the entire screen and cuts off the portions that do not fit.

- 16:9



- 4:3 LETTER BOX



- 4:3 PAN SCAN



Note

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

■ SCREEN SAVER

Turn on and off the screen saver. If you turn on the screen saver, the screen saver image appears when you leave the player in pause or stop mode for 15 minutes or when you play a CD, Super Audio CD, disc with MP3 audio tracks or JPEG image files (except for during Slide show) for more than 15 minutes. The screen saver will help prevent your display device from becoming damaged (ghosting). Press SA-CD/DVD ► to turn off the screen saver.

The default setting is underlined.

<u>ON</u>	Turns on the screen saver.
OFF	Turns off the screen saver.

■ BACKGROUND

Select the background color or picture on the TV screen when the playback is stopped or while playing a CD.

The default setting is underlined.

<u>JACKET PICTURE</u>	The jacket picture (still picture) appears in the background, 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	The preset picture stored in the system appears in the background.
BLUE	The background color is blue.
BLACK	The background color is black.

■ LINE

Select the output method for video signals from the ◀ LINE-TV jack on the rear panel of the system.

The default setting is underlined.

<u>VIDEO</u>	Outputs video signals.
RGB	Outputs RGB signals.

Note

If your TV does not accept RGB signals, no picture appears on the TV screen even if you select “RGB”. Refer to the instructions supplied with your TV.

Tip

You can reset all the DVD settings except for Parental Control by performing the operations described under “To return the DVD setup to the default settings*,” perform reset as follows:” (page 59).

* Except for Parental Control settings

Restricting disc playback

— CUSTOM PARENTAL CONTROL/ PARENTAL CONTROL



Preventing playback of specific discs

— CUSTOM PARENTAL CONTROL

You can set the playback restrictions so that the system will not play inappropriate discs. You can set the same Custom Parental Control password for up to 25 discs. When you set the twenty-sixth disc, the playback restriction for the first disc is cancelled.

1 Insert the disc you want to lock.

If the disc is playing, press **■** to stop play.

2 Press DVD DISPLAY in stop mode.

The Control Menu appears.

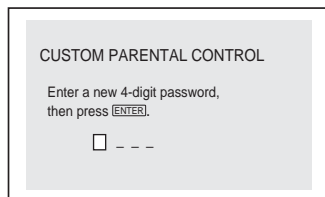
3 Press **▲** or **▼** repeatedly to select “CUSTOM PARENTAL CONTROL”, then press ENTER.

The “CUSTOM PARENTAL CONTROL”
is selected.

4 Press **▲** or **▼** repeatedly to select “ON→”, then press ENTER.

■ If you have not entered a password

The display for registering a new password
appears.

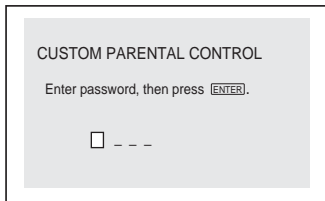


Enter a 4-digit password using the number
buttons, then press ENTER.

The display for confirming the password
appears.

■ When you have already registered a password

The display for entering the password appears.



5 Enter or re-enter your 4-digit password using the number buttons, then press ENTER.

“Custom parental control is set.” appears and the screen returns to the Control Menu.

If you make a mistake entering your password

Press ◀ before you press ENTER and input the correct number.

If you make a mistake

Press ◀ or RETURN ↵, then start from step 3 again.

To turn off the Control Menu

Press DVD DISPLAY.

To turn off the Custom Parental Control function

- 1 In step 4, select “OFF→”, then press ENTER.
- 2 Enter your 4-digit password using the number buttons, then press ENTER.

To change the password

- 1 In step 4, select “PASSWORD→”, then press ENTER.
The display for entering the password appears.
- 2 Enter your 4-digit password using the number buttons, then press ENTER.
- 3 Enter a new 4-digit password using the number buttons, then press ENTER.
- 4 To confirm your password, re-enter it using the number buttons, then press ENTER.

Playing the disc for which Custom Parental Control is set

- 1 **Insert the disc for which Custom Parental Control is set.**
The “CUSTOM PARENTAL CONTROL” display appears.

- 2 **Enter your 4-digit password using the number buttons, then press ENTER.**
The system is ready for playback.

Notes

- When Custom Parental Control is set for a Super Audio CD, the display for entering the password appears each time the layer is switched.
- When Custom Parental Control is set for a hybrid Super Audio CD, the setting is valid only for the current layer.

Tip

If you forgot your password, enter the 6 digits “199703” using the number buttons when the “CUSTOM PARENTAL CONTROL” display asks you for your password, then press ENTER. The display will ask you to enter a new 4-digit password.

Limiting playback by children (DVD only)

— PARENTAL CONTROL

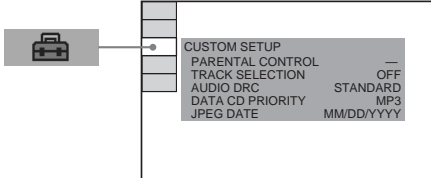
You can limit the playback of some DVDs according to a predetermined level such as the age of the users. The same password is used for both Custom Parental Control and Parental Control.

When a limited scene is played back, that scene is cut or replaced with a preset other scene.

- 1 **Press DVD SETUP in stop mode.**
The Setup Display appears.

- 2** Press ▲ or ▼ repeatedly to select “CUSTOM SETUP”, then press ENTER.

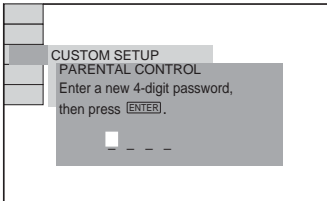
The “CUSTOM SETUP” display appears.



- 3** Press ▲ or ▼ repeatedly to select “PARENTAL CONTROL→”, then press ENTER.

■ If you have not entered a password

The display for registering a new password appears.

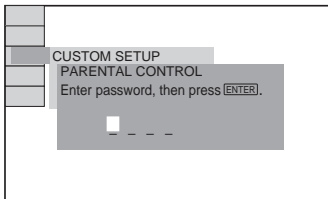


Enter a 4-digit password using the number buttons, then press ENTER.

The display for confirming the password appears.

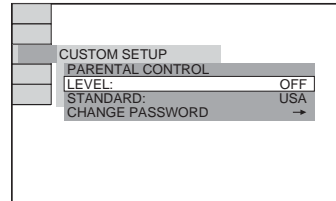
■ When you have already registered a password

The display for entering the password appears.



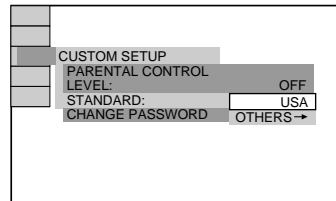
- 4** Enter or re-enter your 4-digit password using the number buttons, then press ENTER.

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



- 5** Press ▲ or ▼ repeatedly to select “STANDARD”, then press ENTER.

The options for “STANDARD” appear.



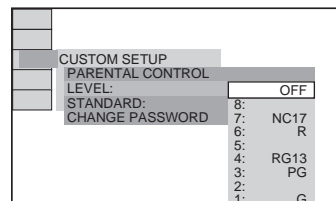
- 6** Press ▲ or ▼ repeatedly to select a geographic area as the playback limitation level, then press ENTER.

The area is selected.

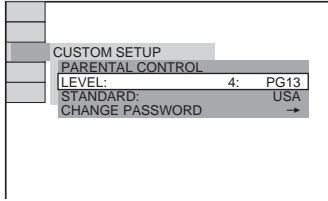
When you select “OTHERS→”, select and enter the standard code in the table on page 34 using the number buttons.

- 7** Press ▲ or ▼ repeatedly to select “LEVEL”, then press ENTER.

The options for “LEVEL” appear.




- 8** Press **▲** or **▼** repeatedly to select the level you want, then press **ENTER**.
The Parental Control setting is completed.



The lower the value, the more strict the limitation.

If you make a mistake

Press **◀** or **RETURN**  to go back to the previous screen.

To turn off the Control Menu

Press **DVD SETUP**.


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

Set “LEVEL” to “OFF” in step 8.

To change the password

- 1** In step 5, select “CHANGE PASSWORD→”, then press **ENTER**. The display for entering the password appears.
- 2** Follow step 3 to enter a new password.

Playing the disc for which Parental Control is set

- 1** Insert the disc and press **SA-CD/DVD** .

The “PARENTAL CONTROL” display appears.


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

Playback starts.

Notes

- When you play DVDs which do not have the Parental Control function, playback cannot be limited on this system.
- Depending on the DVD, you may be asked to change the parental control level while playing the disc. In this case, enter your password, then change the level. If the Resume Play mode is cancelled, the level returns to the original level.

Tip

If you forgot your password, remove the disc and repeat steps 1 to 3 of “Limiting playback by children (DVD only)” (page 31). When you are asked to enter your password, enter “199703” using the number buttons, then press **ENTER**. The display will ask you to enter a new 4-digit password. After you enter a new 4-digit password, replace the disc in the system and press **SA-CD/DVD** . When the “PARENTAL CONTROL” display appears, enter your new password.

Area code

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

Speaker settings

— *SPEAKER SETUP*

To obtain the best possible surround sound, set the speakers you have connected and their distance from your listening position. Then use the test tone to adjust the volume and the balance of the speakers to the same level.

Setting the speakers

- 1 Press DVD SETUP in stop mode.**
The Setup Display appears.
- 2 Press ▲ or ▼ repeatedly to select “SPEAKER SETUP”, then press ENTER.**
- 3 Press ▲ or ▼ repeatedly to select “SIZE” or “DISTANCE”, then press ENTER.**
- 4 Press ▲ or ▼ repeatedly to select the setup item, then press ENTER.**
- 5 Press ▲ or ▼ repeatedly to select or set a setting, then press ENTER.**

To return to the default settings

Select the item to be returned to the default setting and press CLEAR. However, the “SIZE” setting cannot be returned.

Note

When the speaker output is set to “2CH” or “2.1CH”, you cannot select “SIZE” or “DISTANCE” in step 3. Set the speaker output to “5.1CH” (page 42), then set the speakers.

■ **SIZE**

When you move the surround speakers, set the parameters for SURROUND. When you do not connect center and surround speakers, press SPEAKER OUT MODE repeatedly to select “2CH” or “2.1CH” in step 5. The front, center speakers and subwoofer setting is fixed, you cannot change them.

The default settings are underlined.

FRONT	<u>YES</u>
CENTER	<u>YES</u>
SURROUND	<u>BEHIND (LOW)</u> , BEHIND (HIGH), SIDE (LOW), SIDE (HIGH): Specify the position and height to implement the Digital Cinema Surround modes.
SUBWOOFER	<u>YES</u>

Notes

- When adjusting speakers, the sound may cut off for a moment.
- Depending on the settings of other speakers, the subwoofer may output excessive sound.

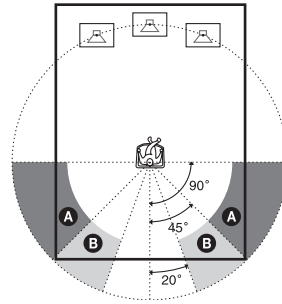
Specifying the surround speaker position and height

When setting the surround speakers, refer to the diagram and select “SURROUND”.

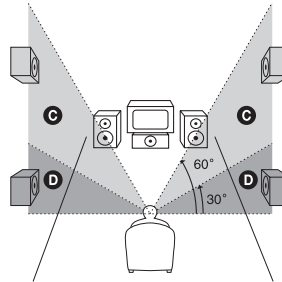
The default setting is underlined.

<u>BEHIND (LOW)</u>	Select this if the surround speakers are located in section B and D .
<u>BEHIND (HIGH)</u>	Select this if the surround speakers are located in section B and C .
<u>SIDE (LOW)</u>	Select this if the surround speakers are located in section A and D .
<u>SIDE (HIGH)</u>	Select this if the surround speakers are located in section A and C .

Position diagram

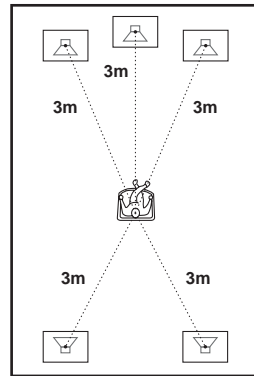


Height diagram



■ **DISTANCE**

The default distance setting for the speakers in relation to the listening position is shown below.



Be sure to change the value in the Setup Display when you move the speakers. The default settings are underlined.

FRONT <u>3.0 m</u>	Front speaker distance from the listening position can be set in 0.2 meter increments from 1.0 to 7.0 meters.
CENTER <u>3.0 m</u>	Center speaker distance can be moved up to 1.6 meters closer to the listening position, from the front speakers in 0.2 meter increments.
SURROUND <u>3.0 m</u>	Surround speaker distance can be moved up to 4.6 meters closer to the listening position, from the front speakers in 0.2 meter increments.

Notes

- When adjusting speakers, the sound may cut off for a moment.
- If each of the front and surround speakers are not placed at an equal distance from your listening position, set the distance of the closest speaker.
- Do not place the surround speakers farther away from your listening position than the front speakers.

Adjusting the speaker volume and level

- 1 Press DVD SETUP in stop mode.**
The Setup Display appears.
- 2 Press ▲ or ▼ repeatedly to select “SPEAKER SETUP”, then press ENTER.**
- 3 Press ▲ or ▼ repeatedly to select “TEST TONE”, then press ENTER.**
- 4 Press ▲ or ▼ repeatedly to select “ON”, then press ENTER.**
You will hear the test tone from each speaker in sequence.
- 5 From your listening position, adjust the value of “BALANCE” and “LEVEL” using ▲/▼/◀/▶.**
The test tone is emitted from the selected speaker.
- 6 Press ENTER when you finish adjusting.**
- 7 Press ▲ or ▼ repeatedly to select “TEST TONE”, then press ENTER.**
- 8 Press ▲ or ▼ repeatedly to select “OFF”, then press ENTER.**

To return to the default settings

Select the item to be returned to the default setting and press CLEAR.

To change the volume of all speakers at once

Adjust using VOLUME + or –.

Tip

To adjust the balance or the level without listening to the test tone, select “BALANCE” or “LEVEL” in step 3 and press ENTER, then adjust the balance or level using ▲ or ▼ and press ENTER.

■ LEVEL

You can vary the level of each speaker as follows. Be sure to set “TEST TONE” to “ON” for easy adjustment.

The default settings are underlined.

<u>CENTER</u> <u>0 dB</u>	Adjust the level of the center speaker (–6 dB to +6 dB, 1 dB increments).
<u>SURROUND LEFT</u> <u>0 dB</u>	Adjust the level of the surround speaker (–6 dB to +6 dB, 1 dB increments).
<u>SURROUND RIGHT</u> <u>0 dB</u>	
<u>SUBWOOFER</u> <u>0 dB</u>	Adjust the level of the subwoofer (–6 dB to +6 dB, 1 dB increments).

■ BALANCE

You can vary the balance of the left and right speakers as follows. Be sure to set “TEST TONE” to “ON” for easy adjustment.

The default setting is underlined.

<u>FRONT</u> --- (<u>CENTER</u>)	Adjust the balance between the front left and right speakers (6 steps left or right).
---------------------------------------	---

■ TEST TONE

The speakers will emit a test tone to adjust “BALANCE” and “LEVEL”.

The default setting is underlined.

<u>OFF</u>	The test tone is not emitted from the speakers.
<u>ON</u>	The test tone is emitted from each speaker in sequence while adjusting balance or level. When you select one of the “SPEAKER SETUP (LEVEL or BALANCE)” items, the test tone is emitted from the selected speaker.

Presetting radio stations

You can preset up to 20 FM stations and 10 AM stations. You can then tune in any of those stations simply by selecting the corresponding preset number.

Automatic tuning preset

You can automatically tune in all of the stations that can be received in your area and then manually store the radio frequency of the desired stations.

- 1** Press **TUNER BAND** repeatedly (or move **TUNER** lever on the unit to **FM** or **AM**) to select **"FM"** or **"AM"**.
- 2** Press **TUNING MODE** repeatedly until **"AUTO"** appears.
- 3** Press **+ or -** on the remote repeatedly until the frequency indication starts to change, then release it.

The frequency changes as the system scans for a station. Scanning stops automatically when a station is tuned in. At that time, **"TUNED"** and **"ST"** (for an FM stereo program) appear.

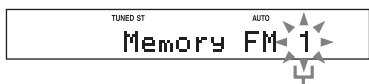


If **"TUNED"** does not appear and the scanning does not stop

Set the frequency of the desired radio station as described in steps 2 and 3 of "Manual tuning preset".

- 4** Press **MENU/NO.**
- 5** Press **◀◀** or **▶▶** repeatedly to select **"Memory?"**, then press **ENTER.**

A preset number flashes. Perform steps 6 and 7 while the preset number flashes.



Preset number

- 6** Press **+ or -** (or move **TUNER** lever on the unit to **+ or -**) repeatedly to select the desired preset number.
- 7** Press **ENTER.**
"Complete!" appears.
- 8** Repeat steps 1 through 7 to store other stations.

Tip

Press **TUNING MODE** to stop scanning.

Manual tuning preset

You can manually tune in and store the radio frequency of the desired stations.

- 1** Press **TUNER BAND** repeatedly (or move **TUNER** lever on the unit to **FM** or **AM**) to select **"FM"** or **"AM"**.
- 2** Press **TUNING MODE** repeatedly until both **"AUTO"** and **"PRESET"** disappear.
- 3** Press **+ or -** on the remote repeatedly to tune in the desired station.
- 4** Press **MENU/NO.**
- 5** Press **◀◀** or **▶▶** repeatedly to select **"Memory?"**, then press **ENTER.**
A preset number flashes. Perform steps 6 and 7 while the preset number flashes.
- 6** Press **+ or -** (or move **TUNER** lever on the unit to **+ or -**) repeatedly to select the desired preset number.
- 7** Press **ENTER.**
"Complete!" appears.
- 8** Repeat steps 1 through 7 to store other stations.

Other operations

To	Do this
Tune in a station with a weak signal	Follow the procedure described in “Manual tuning preset”.
Set another station to the existing preset number	Start over from step 1. After step 5, press + or – (or move TUNER lever on the unit to + or –) repeatedly to select the preset number you want to store the other station.

Tips

- The preset stations are retained for about a day even if you disconnect the mains lead or if a power failure occurs.
- You can label the preset stations “Labelling the preset stations” (page 40).
- To improve the reception, adjust the supplied antennas or connect an external antenna.

Listening to the radio

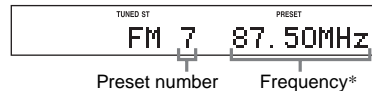
You can listen to a radio station either by selecting a preset station, or by manually tuning in the station.

Listening to a preset station

— *Preset Tuning*

Preset radio stations in the tuner’s memory first (see “Presetting radio stations” on page 38).

- 1 Press TUNER BAND repeatedly (or move TUNER lever on the unit to FM or AM) to select “FM” or “AM”.**
- 2 Press TUNING MODE repeatedly until “PRESET” appears.**
- 3 Press + or – (or move TUNER lever on the unit to + or –) repeatedly to select the desired preset station.**



* The station name appears only if you have labelled the station (see “Labelling the preset stations” on page 40).

To select the desired preset number using the number buttons

Press number buttons instead of performing step 3. To enter preset number 10 or higher, press >10 and the corresponding number buttons. To enter 0, press 10/0.

In addition, you can select a preset number even when the tuning mode is other than PRESET by selecting + or – with the TUNER lever on the unit.

Listening to non-preset radio station

— Manual Tuning

- 1 Press **TUNER BAND** repeatedly (or move **TUNER lever** on the unit to **FM** or **AM**) to select “**FM**” or “**AM**”.
- 2 Press **TUNING MODE** repeatedly until both “**AUTO**” and “**PRESET**” disappear.
- 3 Press **+ or –** on the remote repeatedly to tune in the desired station.

Tips

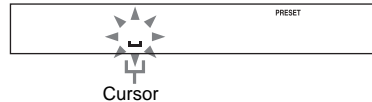
- To improve broadcast reception, adjust the supplied antennas, or connect a commercially available external antenna.
- When an FM stereo program has static noise, press **FM MODE** repeatedly until “**MONO**” appears. There will be no stereo effect, but the reception will improve.
- Press **TUNING MODE** repeatedly until “**AUTO**” appears in step 2 above, then press **+ or –** on the remote. The frequency indication changes and scanning stops when the system tunes in a station (Automatic Tuning).
- You can switch from another source to the tuner by pressing **TUNER BAND** (Automatic Source Selection).

Labelling the preset stations

— Station Name

You can label each preset station with up to 10 characters (Station Name).

- 1 Tune in the station you want to label (see “Listening to the radio” on page 39).
- 2 Press **NAME EDIT/SELECT**.
The cursor starts flashing.



- 3 Press **NAME EDIT/SELECT** to select the desired type of character.

Character type	Select
Alphabet (upper cases)/ blank space/symbols	Selected AB
Alphabet (lower cases)/ blank space/symbols	Selected ab
Numbers	Selected 12

- 4 Enter a character.

Character type	Do this
Alphabet	Press the corresponding letter button (or ◀◀ or ▶▶) repeatedly until the character to be entered flashes, then press ▶▶ .
Numbers	Press the corresponding number buttons.
Blank space	Press 10/0 .
˘ - / , . () ! ?	Press 1 repeatedly.
& + < > _ = “ ” ; # \$ % @ * `	Press 1 , then press ◀◀ or ▶▶ repeatedly.

- 5 Repeat steps 3 and 4 to enter the rest of the name.
- 6 Press **ENTER**.

To cancel labelling

Press **MENU/NO**.

To erase the station name

- 1 Tune in the preset station you want to erase the station name.
- 2 Press NAME EDIT/SELECT.
- 3 Press CLEAR repeatedly to erase the name.
- 4 Press ENTER.

To change the character

In step 3 or 4, press ◀◀ or ▶▶ repeatedly until the character to be changed flashes, press CLEAR to erase the character, then repeat steps 3 and 4.

To add a character

After steps 1 and 2, press ◀◀ or ▶▶ repeatedly until the cursor comes to the point you want to add a character, then proceed to step 3.

Note

When you tune in a station that provides RDS services, the station name is overwritten.

Using the Radio Data System (RDS)

What is the Radio Data System?

Radio Data System (RDS) is a broadcasting service that allows radio stations to send additional information along with the regular program signal. This tuner offers convenient RDS features like station name display. RDS is available only on FM stations.*

Note

RDS may not work properly if the station you are tuned in is not transmitting the RDS signal properly or if the signal is weak.

- * Not all FM stations provide RDS service, nor do they provide the same types of services. If you are not familiar with the RDS system, check with your local radio stations for details on RDS services in your area.

Receiving RDS broadcasts

Simply select a station from the FM band.

When you tune in a station that provides RDS services, the station name appears in the display.

To check the RDS information

Each time you press DISPLAY on the unit, the display changes cyclically as follows:

Station name* → Frequency → Clock display
→ Sound Field status → Volume

- * If the RDS broadcast is not properly received, the station name may not appear in the display.

Sound Adjustment

Switching the speaker output

You can select from three different speaker output modes: the front L/R speakers, the front L/R speakers and the subwoofer, and the front L/R speakers, center speaker, surround L/R speakers and the subwoofer.

When using only the front L/R speakers or the front L/R speakers and the subwoofer, the multi channel sound is downmixed and played on two channels.

Press SPEAKER OUT MODE repeatedly until the desired speaker output appears.

Speaker output	Display
Front L/R speakers	2CH
Front L/R speakers and subwoofer	2.1CH
Front L/R, center, surround L/R speakers and subwoofer	5.1CH

Automatic decoding of the audio input signal

The auto decoding function automatically detects the type of audio signal being input (Dolby Digital, DTS, or standard 2 channel stereo) and performs the proper decoding if necessary. This mode presents the sound as it was recorded/encoded, without adding any effects (e.g. reverberation).

However, if there are no low frequency signals (Dolby Digital LFE, etc.), it will generate a low frequency signal for output to the subwoofer.

- 1 Press SPEAKER OUT MODE repeatedly until “5.1CH” appears.**
- 2 Press SOUND FIELD + or – repeatedly until “A.F.D. AUTO” appears.**

Using only the front speakers and subwoofer (2 CHANNEL STEREO)

This mode outputs the sound from the front L/R speakers (2CH), or the front L/R speakers and subwoofer (2.1CH). Standard two channel (stereo) sources completely bypass the sound field processing. Multi channel surround formats are downmixed to two channels.

This allows you to play any source using only the front L/R speakers and subwoofer.

- 1 Press SPEAKER OUT MODE repeatedly until “2CH” or “2.1CH” appears.**
- 2 Press SOUND FIELD + or – repeatedly until “2CH STEREO” appears.**

Selecting the surround effect

DVD

VIDEO CD

SA-CD CD

MP3

You can take advantage of surround sound simply by selecting one of system's pre-programmed sound fields. They bring the exciting and powerful sound of movie theatres into your home.

The sound fields that can be selected differ according to the speaker output selection and the sound source to be played.

1 Press SPEAKER OUT MODE repeatedly to select the speaker output you desire.

2 Press SOUND FIELD + or – repeatedly to select the effect you desire.

Each time you press the button, the display changes as follows:

■ **When the speaker output is set to "5.1CH"**

A.F.D. AUTO*¹ ↔ PRO LOGIC ↔
PLII MOVIE ↔ PLII MUSIC ↔
C.ST.EX A*² ↔ C.ST.EX B*² ↔
C.ST.EX C*² ↔ ROCK ↔ POP ↔
JAZZ ↔ CLASSIC ↔ DANCE

■ **When the speaker output is set to "2CH" or "2.1CH", or the headphones are connected**

2CH STEREO*¹ ↔ C.ST.EX A*² ↔
C.ST.EX B*² ↔ C.ST.EX C*² ↔ ROCK
↔ POP ↔ JAZZ ↔ CLASSIC ↔
DANCE

*¹ During playing a Super Audio CD, the sound field is fixed to "A.F.D. AUTO" or "2CH STEREO".

*² DCS (Digital Cinema Sound) technology is used.

- **A.F.D. AUTO (Auto Format Direct Auto):** The sound recorded on the source is output as is.
- **PRO LOGIC:** Performs Pro Logic decoding. The source recorded in 2 channels is decoded into 4 channels.
- **PL II MUSIC:** Performs the Pro Logic II music mode decoding. This setting is ideal for normal stereo sources such as CDs.
- **PL II MOVIE:** Performs Pro Logic II movie mode decoding. This setting is ideal for movies encoded in Dolby Surround. In addition, this mode can reproduce sound in 5.1 channels when watching videos of overdubbed or old movies.
- **ROCK, POP, JAZZ, CLASSIC, DANCE:** Sound field effects suited to each genre can be obtained.
- **2CH STEREO:** The sound recorded on the source is output as is.

About Cinema Studio EX

Cinema Studio EX is ideal for enjoying the movie software encoded with multi channel format, such as the Dolby Digital DVD. This mode reproduces the sound characteristics of Sony Pictures Entertainment's studios.

Cinema Studio EX consists of the following three elements.

- **Virtual Multi Dimension**
Creates 5 sets of virtual speakers surrounding the listener from a single pair of actual surround speakers.
- **Screen Depth Matching**
In a movie theater, sound seems to come from inside the image reflected on the movie screen. This element creates the same sensation in your listening room by shifting the sound of the front speakers "into" the screen.
- **Cinema Studio Reverberation**
Reproduces the reverberations peculiar to a movie recording studio.

Cinema Studio EX is the integrated mode which operates these elements simultaneously.

Falling asleep to music

— Sleep Timer

You can set the system to turn off after a certain time, so that you can fall asleep to music.

Press SLEEP.

Each time you press the button, the minute display (the turn-off time) changes cyclically as follows:

AUTO* → 90MIN → 80MIN → 70MIN
→ ... → 10MIN → SLEEP OFF

* The system automatically turns off in 240 minutes or after the current disc finishes playing.

Other operations

To	Press
Check the remaining time**	SLEEP once.
Change the time to turn off	SLEEP repeatedly to select the time you want.
Cancel the Sleep Timer Function	SLEEP repeatedly until "SLEEP OFF" appears.

** You cannot check the remaining time if you select "AUTO".

Note

You cannot turn off the TV power using the Sleep Timer.

Tip

You can use the Sleep Timer, even if you have not set the clock.

Waking up to music

— Play Timer

You can wake up to music at a preset time. Make sure you have set the clock (see "Setting the clock" on page 12).

1 Prepare the sound source you want to play.

- DVD: Load a disc. To start from a specific track, make a program (see "Creating your own program" on page 20).
- Tuner: Tune in the preset radio station (see "Listening to the radio" on page 39).

2 Press VOLUME + or – (or turn VOLUME control on the unit) to adjust the volume.

3 Press CLOCK/TIMER SET.

4 Press ◀◀ or ▶▶ repeatedly to select "PLAY SET?", then press ENTER.

5 Press ◀◀ or ▶▶ repeatedly until the desired type of timer appears.

- PLAY ONCE?: The timer activates only once.
- PLAY DAILY?: The timer activates at the same time every day.
- PLAY WEEKLY?: The timer activates at the same time on the set day of every week.

6 Press ENTER.

When you select "PLAY ONCE?" or "PLAY WEEKLY?" in step 5, the day of the week indication flashes. Proceed to step 9 when you select "PLAY DAILY?" in step 5.

7 Press ◀◀ or ▶▶ repeatedly to set the day of the week that the timer activates.

8 Press ENTER.

The hour indication flashes.

9 Set the time to start playing.

Press **◀◀** or **▶▶** repeatedly to set the hour, then press ENTER.

The minute indication flashes.

Press **◀◀** or **▶▶** repeatedly to set the minute, then press ENTER.

10 Set the time to stop playing following the same procedure as step 7 to 9.

11 Press **◀◀** or **▶▶** repeatedly until the desired sound source appears.

Each time you press the button, the display changes cyclically as follows:

DVD PLAY ↔ TUNER

12 Press ENTER.

The timer settings appear, then the original display returns.

13 Press I/⏻ to turn off the system.

Other operations

To	Do this
Check the setting/ active the timer	1 Press CLOCK/TIMER SELECT. 2 Press ◀◀ or ▶▶ repeatedly until "PLAY ON?" appears, then press ENTER.
Change the setting	Start over from step 1.
Cancel the timer	1 Press CLOCK/TIMER SELECT. 2 Press ◀◀ or ▶▶ repeatedly until "PLAY OFF?" appears, then press ENTER.

Notes

- If you use the Play Timer and the Sleep Timer at the same time, the Sleep Timer has priority.
- The system turns on 30 seconds before the preset time. Do not operate the system from the time the system turns on until the play starts.
- If the system is on 30 seconds before the preset time, the Play Timer will not be activated.
- You cannot use the optional component connected to the following jacks as the sound source for Play Timer.
 - VIDEO/SAT IN jacks
 - MD/TAPE IN jacks
 - VIDEO/SAT DIGITAL IN OPTICAL jack
 - MD DIGITAL IN OPTICAL jack

Turning off the display

— Power Saving Mode

The clock display can be turned off to minimize the amount of power consumed during standby (Power Saving Mode).

Press DISPLAY on the unit repeatedly while the system is off until the clock display disappears.

To cancel Power Saving Mode

Press DISPLAY on the unit while the system is off. Each time you press the button, the display switches cyclically as follows:

Clock display* → No display (Power Saving Mode)

* “- -: -” appears if you have not set the clock.

Tip

The timer continues to operate in Power Saving Mode.

Viewing information about the disc in the display

You can check the playing time and remaining time of the current track or that of the disc.

When a DVD/CD-TEXT disc or a disc with MP3 audio tracks or JPEG image file is loaded, you can also check the information recorded on disc, such as the titles.

Checking the remaining time and titles (DVD/VIDEO CD/CD/Super Audio CD/MP3/JPEG)

Press DISPLAY on the unit during Normal Play.

Each time you press the button, the display changes cyclically as follows:

■ When playing a DVD

Current title number and elapsed playing time
→ Current title number and remaining time*¹
→ Current chapter number and elapsed playing time*¹
→ Current chapter number and remaining time*¹
→ Title*²
→ Clock display*³
→ Sound field status*³
→ Volume*³

■ When playing a CD/Super Audio CD/VIDEO CD without PBC function

Current track number and elapsed playing time*⁴
→ Current track number and remaining time*⁴
→ Elapsed playing time of the disc*⁵
→ Remaining time of the disc*⁵
→ Track title*²
→ Clock display*³
→ Sound field status*³
→ Volume*³

■ When playing an MP3

Current track number and elapsed playing time
→ Current track number and remaining time →
Track title (file name)^{*2} → Album (folder)
name^{*2*6} → Clock display^{*3} → Sound field
status^{*3} → Volume^{*3}

Notes

- ID3 tags support only version 1.
- When an ID3 tag is recorded on the MP3 file that is currently being played, the ID3 information appears in place of the track title (file name).
- The ID3 tag character code conforms to ASCII and ISO9660. Joliet format discs display only in ASCII. Characters that do not support ASCII or ISO9660 are not displayed correctly.
- When the MP3 bit rate is VBR (Variable Bit Rate), the MP3 elapsed playing time and remaining time may not be displayed correctly.

■ When playing a JPEG

Current file number → File name^{*2} → Album
(folder) name^{*2*6} → Clock display^{*3} → Sound
field status^{*3} → Volume^{*3}

- ^{*1} Depending on the disc or play mode, the disc information may not be displayed.
- ^{*2} Only alphabet letters and numbers can be displayed. The disc that does not include the alphabet information is skipped.
- ^{*3} After a short time, the display returns to the top item.
- ^{*4} When playing VIDEO CDs with PBC functions, only the playing time of the scene is displayed.
- ^{*5} These are not displayed during Shuffle Play or Program Play.
- ^{*6} When the text information finishes scrolling, the display returns to the top item.

Checking the total playing
time and titles (DVD/VIDEO
CD/CD/Super Audio CD/MP3/
JPEG)

Press DISPLAY on the unit in stop mode.

Each time you press the button, the display changes cyclically as follows:

■ When a DVD/VIDEO CD/CD/Super Audio CD is in stop mode

Total number of titles^{*1} or total number of tracks
and the total playing time^{*2} → Disc title^{*3} →
Clock display^{*4} → Sound Field status^{*4} →
Volume^{*4}

^{*1} For discs with DVD

^{*2} For discs with VIDEO CD/CD/Super Audio CD

^{*3} The disc that does not include the alphabet information is skipped.

^{*4} After a short time, the display returns to the top item.

■ When an MP3/JPEG is in stop mode

Total number of albums (folders)^{*1} → Disc
title^{*2} → Clock display^{*3} → Sound Field
status^{*3} → Volume^{*3}

^{*1} When play mode is "ALBM" or "ALBM SHUF", total track number (MP3) or total file number (JPEG) of the selected album is displayed.

^{*2} When "ALBM" or "ALBM SHUF" is selected, album (folder) name is displayed.

^{*3} After a short time, the display returns to the top item.

Checking the station name (TUNER)

Press **DISPLAY** on the unit while listening to the radio.

Each time you press the button, the display changes cyclically as follows:

Station name*¹ → Preset number and frequency*² → Clock display*³ → Sound Field status*³ → Volume*³

*¹ Only when the preset station is labelled.

*² When a radio station name is labelled, it appears for a short time and then the display returns to the top item.

*³ After a short time, the display returns to the top item.

To scroll a long name

Press **SCROLL**.

Note

Depending on the DVD, the disc information may not be displayed or the display may not be changed.

Tips

- You can check the current track title during playback. If you press **SCROLL**, a track title appears scrolling in the display.
- To label the preset stations, see “Labelling the preset stations” on page 40.
- You can check the playing time of the disc using the Control Menu (see “Viewing information about the disc in the on-screen display” on page 49).

Viewing information about the disc in the on-screen display

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

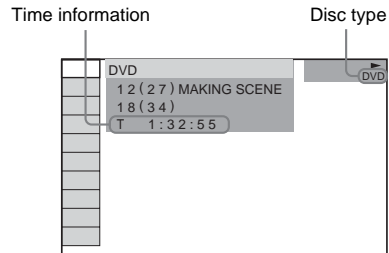
You can also check the DVD/CD text and file/album name recorded on the disc.

1 Press **DVD DISPLAY** during play.

The Control Menu appears.

2 Press **DISPLAY** on the unit to change the time information.

The display and the kinds of time that you can change depend on the disc you are playing.



■ When playing a DVD

- T **:**:**
Elapsed playing time of the current title
- T_**:**:**
Remaining time of the current title
- C **:**:**
Elapsed playing time of the current chapter
- C_**:**:**
Remaining time of the current chapter
- **:**:**
Elapsed playing time of the current title without menu or chapter

■ When playing a VIDEO CD (with PBC function)

- **:**:**
Elapsed playing time of the current scene

■ When playing a VIDEO CD (without PBC function)/CD/Super Audio CD

- T **:.** Elapsed playing time of the current track
- T_**:.** Remaining time of the current track
- D **:.** Elapsed playing time of the current disc
- D_**:.** Remaining time of the current disc

■ When playing an MP3

- T **:.** Elapsed playing time of the current track
- T_**:.** Remaining time of the current track

To turn off the Control Menu

Press DVD DISPLAY.

Notes

- Only alphabet letters and numbers can be displayed. Anything else is displayed “ ”.
- Depending on the disc being played, the system can only display a limited number of characters. Also, depending on the disc, all text characters are not displayed.

Checking the date information

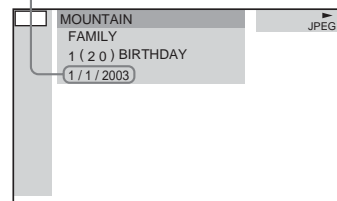
(JPEG only)

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

Press DVD DISPLAY during play.

The Control Menu appears.

Date information



* “Exchangeable Image File Format” is a digital camera image format defined by the Japan Electronics & Information technology Industries Association.

Note

If there is no date information or data is damaged on the disc, the system cannot display the date information.

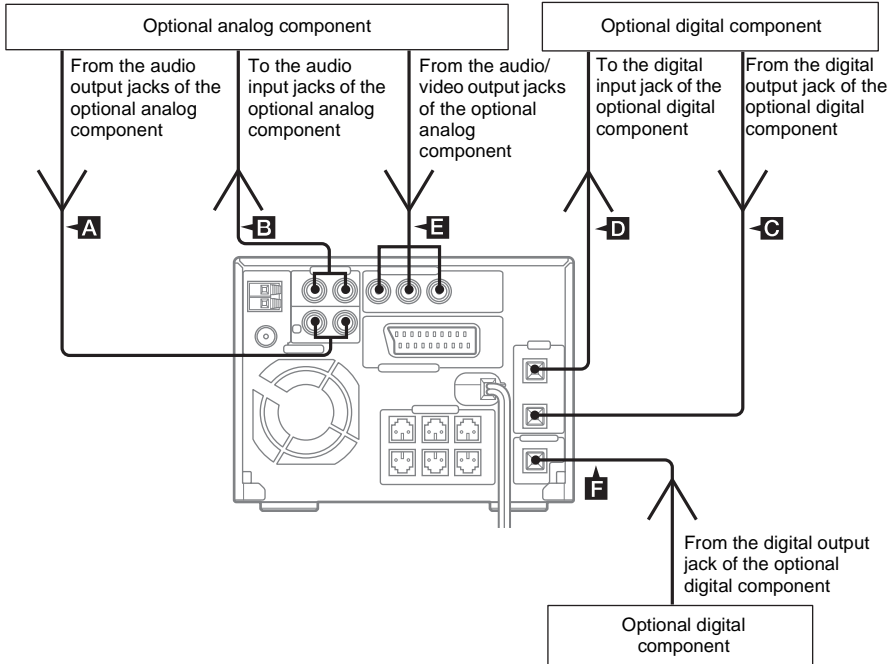
Tip

You can change the date information order by selecting “JPEG DATE” setting in “CUSTOM SETUP” (see page 26).

Optional Components

Hooking up optional components

To enhance your system, you can connect optional components. Refer to the operating instructions provided with each component.



A MD/TAPE IN jacks

Use audio cords (not supplied) to connect an optional analog component (MD deck, etc.) to these jacks. You can then listen to from the component through this system.

B MD/TAPE OUT jacks

Use audio cords (not supplied) to connect an optional analog component (MD deck, etc.) to these jacks. You can then output audio to the component from this system.

C MD DIGITAL IN OPTICAL jack

Use a digital optical cable (square, not supplied) to connect an optional digital component to this jack. You can then listen to from the component through this system.

D MD DIGITAL OUT OPTICAL jack

Use a digital optical cable (square, not supplied) to connect an optional digital component with a digital optical input jack. You can then output digital audio to the component from this system.

Notes

- When playing a VIDEO CD, Super Audio CD or MP3 audio tracks, you cannot output digital audio.
- You can record digital audio from this system only when DVD function is selected.

E VIDEO/SAT IN jacks

Use the audio/video cords (not supplied) to connect an optional analog component (VCR, etc.) to these jacks. You can then listen to from the component through this system.

F VIDEO/SAT DIGITAL IN OPTICAL jack

Use a digital optical cable (square, not supplied) to connect an optional digital component (satellite tuner, etc.) to this jack. You can then listen to from the component through this system.

Listening to audio from a connected component

Listening to a digital component

- 1 Connect an optical cable.**
See “Hooking up optional components” on page 51.
 - 2 Press FUNCTION repeatedly until “MD” appears.**
Start playing the connected component.
-

Listening to a digital component (such as a satellite tuner)

- 1 Connect an optical cable.**
See “Hooking up optional components” on page 51.
 - 2 Press FUNCTION repeatedly until “VIDEO” appears.**
 - 3 Press MENU/NO repeatedly until “SAT?” appears, then press ENTER.**
Start playing the connected component.
-

Listening to an analog component

- 1 Connect the audio cords.**
See “Hooking up optional components” on page 51.
- 2 Press FUNCTION repeatedly until “MD” appears.**
- 3 Press MENU/NO repeatedly until “TAPE?” appears, then press ENTER.**
Start playing the connected component.

Listening to an analog component (such as a VCR)

1 Connect the audio cords.

See “Hooking up optional components” on page 51.

2 Press FUNCTION repeatedly until “VIDEO” appears.

Start playing the connected component.

Tip

When the component is connected using an optical digital cable, the audio from the VIDEO/SAT DIGITAL IN OPTICAL jack has priority.

Recording on a connected component

Making a digital recording on a digital component

The Serial Copy Management System (page 54) may prevent you from making a digital recording of certain material. In this case, connect the component to MD/TAPE OUT jacks and make an analog recording.

1 Connect an optical cable.

See “Hooking up optional components” on page 51.

2 Start recording.

Refer to the operating instructions provided with the connected component.

Notes

- When making a digital recording from this system to an optional component (MD deck, etc.) connected to the MD DIGITAL OUT OPTICAL jack, start the optional component recording in advance.
- You can record digital audio from this system only when playing a CD.

Making an analog recording on an analog component

1 Connect the audio cords.

See “Hooking up optional components” on page 51.

2 Start recording.

Refer to the operating instructions provided with the connected component.

Guide to the Serial Copy Management System

Digital audio components, such as CDs, MDs, and DATs let you copy music easily with high quality by processing music as a digital signal. To protect the copyrighted music programs, a system uses the Serial Copy Management System that allows you to make only a single copy of a digitally recorded source through digital-to-digital connections.

You can make only a first generation copy* through a digital-to-digital connection.

For example:

- 1 You can make a copy of a commercially available digital sound programme (for example, a CD), but you cannot make a second copy from the first-generation copy.
- 2 You can make a copy of a digital signal from a digitally recorded analogue sound programme (for example, an analogue record or a music cassette tape) or from a digital satellite broadcast programme, but you cannot make a second copy.

* A first-generation copy means a digital recording of a digital signal made on digital audio equipment. For example, if you record from this system's DVD player to the connected optional MD deck, you make a first-generation copy.

Problems and remedies

Should you encounter a problem with your system, do the following:

- 1 Make sure the mains lead and speaker cords are correctly and firmly connected.
- 2 Find your problem in the troubleshooting checklist below and take the indicated corrective action.

If the problem persists after doing all of the above, consult your nearest Sony dealer.

When the I/Ⓞ indicator flashes

Immediately unplug the mains lead and check the following items.

- Are the system control cables connected correctly?
- If your system has a voltage selector, is the voltage selector set to the correct voltage? Check the voltage for your region, then make sure the voltage selector is set correctly.
- Are the + and – speaker cords short-circuited?
- Are you using the supplied speakers?
- Is anything blocking the ventilation holes on the rear of the system?

Check all the above items and fix any problems found. After I/Ⓞ indicator stops flashing, reconnect the mains lead and turn on the system. If the indicator still flashes, or if the cause of the problem cannot be found even after checking all the above items, consult your nearest Sony dealer.

General

“- -: -” appears in the display.

- A power interruption has occurred. Set the clock (page 12) and timer setting (page 45) again.

There is no sound.

- Press VOLUME + or turn VOLUME control on the unit clockwise.
- Make sure the headphones are not connected.
- Check the speaker connections (page 8).
- The system is in pause mode or in slow-motion play mode. Press SA-CD/DVD ► to return to normal play mode.

There is severe hum or noise.

- Move the system away from the source of noise.
- Connect the system to different mains.
- Install a noise filter (commercially available) to the mains lead.

The timer cannot be set.

- Set the clock again (page 12).

The timer does not function.

- Active the timer, and “ⓄPLAY” lights up (page 46).
- Check the timer setting and set the correct time (page 46).
- Cancel the Sleep Timer Function (page 45).

The remote does not function.

- Remove the obstacle.
- Move the remote closer to the system.
- Point the remote at the system’s sensor.
- Replace the batteries (size AA/R6).
- Locate the system away from the fluorescent light.

The buttons are disabled.

- You are pressing a button that is not used with this system.

The system turned off automatically.

- Cancel the Sleep Timer Function (page 45).
- If approximately one hour passes with DVD playback paused or with the DVD top menu or a DVD menu displayed during DVD playback, the system automatically turns off.

Speakers

The left and right sounds are unbalanced or reversed.

- Check that the speakers and components are connected correctly and securely.
- Select “CENTER” in the BALANCE menu (page 36).

The sound comes from the center speaker only.

- Depending on the disc, the sound may come from the center speaker only. Refer to the operating instructions supplied with the disc.

There is no sound from the subwoofer.

- Check that the speakers and components are connected correctly and securely.
- Set the sound field to “A.F.D. AUTO” (page 43).
- Set the speaker output to “2.1CH” or “5.1CH” (page 42).

There is no sound from the center speaker.

- Check that the speakers and components are connected correctly and securely.
- Set the sound field to “C.ST.EX A (or B, C)” (page 43).
- Set the speaker output to “5.1CH” (page 42).

There is no sound from the surround speakers.

- Check that the speakers and components are connected correctly and securely.
- Set the sound field to “C.ST.EX A (or B, C)” (page 43).
- Set the speaker output to “5.1CH” (page 42).
- Depending on the disc, the recorded sound level may be too low. Refer to the operating instructions supplied with the disc.

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

- Press SOUND FIELD +/- repeatedly to select a sound effect other than “A.F.D. AUTO” (page 43).
- 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 loses stereo effect when you play a VIDEO CD, CD, or MP3.

- Set “AUDIO” to “STEREO” in the Control Menu display (page 24).

DVD/VIDEO CD/CD/Super Audio CD/MP3/JPEG player

“LOCKED” appears.

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

The disc does not eject.

- Consult your nearest Sony dealer.

Play does not start.

- Check whether a disc is loaded. (The disc indicator lights up when a disc is loaded.)
- Wipe the disc clean (page 62).
- Replace the disc.
- Place the disc that this system can play (page 5).
- Place the disc correctly.
- Load the disc in the player with the label side up.
- Remove the disc and wipe away the moisture on the disc, then leave the system turned on for a few hours until the moisture evaporates.
- Press SA-CD/DVD ► to start play.
- The region code on the DVD does not match the system.
- Cancel the Custom Parental Control function (page 31).

Custom Parental Control is set but the display for entering the password does not appear.

- Set Custom Parental Control for the layer to be limited.

You are playing a multi-channel Super Audio CD but cannot obtain sound effects.

- Switch the audio to select the multi-channel area (page 24).
- Set speaker output to “5.1CH” (page 42).

The sound skips.

- Wipe the disc clean (page 62).
- Replace the disc.
- Try moving the system to a place without vibration (e.g., on top of a stable stand).
- Try moving the speakers away from the system, or placing them on separate stands. When you listen to a track with bass sounds at high volume, the speaker vibration may cause the sound to skip.

Play does not start from the first track.

- Press PLAY MODE repeatedly until both “PGM” and “SHUF” disappear to return to Normal Play.
- Resume Play has been selected. Press ■ in stop mode, then start playback (page 15).
- The title, DVD or PBC menu automatically appears on the screen.

Playback starts 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 playback stops at the auto pause signal.

The system turned off during DVD playback.

- If approximately one hour passes with DVD playback paused or with the DVD top menu or a DVD menu displayed during DVD playback, the system automatically turns off.

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

- Depending on the disc, you may not be able to do some of the operations above. Refer to the operating instructions supplied with the disc.

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

- Select the language you want for the on-screen display in “OSD” under “LANGUAGE SETUP” in the Setup Display (page 26).

The language for the sound track cannot be changed.

- Multilingual tracks are not recorded on the DVD being played.
- The DVD prohibits changing the language for the sound track.

The subtitle language cannot be changed.

- Multilingual subtitles are not recorded on the DVD being played.
- The DVD prohibits changing the subtitles.

The subtitle cannot be turned off.

- The DVD prohibits turning off subtitles.

The angles cannot be changed.

- Multi-angles are not recorded on the DVD being played.
- The DVD prohibits changing the angles.

MP3 audio track cannot be played back.

- Recording was not performed according to the ISO9660 level 1/level 2 format, Joliet or Multi Session in the expansion format.
- The MP3 audio track does not have the extension “.MP3”.
- The data is not stored in MP3 format.
- Discs containing files other than MPEG 1 Audio Layer-3 files cannot be played.
- Remove the disc and select “CUSTOM SETUP” from the setup items. Then select “DATA CD PRIORITY” and set to “MP3” again (page 26).
- Playback is possible up to 8 levels.
- The maximum number of albums (99) or tracks (250) is exceeded (page 6).

The JPEG image file cannot be played.

- The DATA CD is not recorded in JPEG format that conforms to ISO9660 level 1/level 2, Joliet or Multi Session.
- The JPEG image file does not have the extension “.JPG” or “.JPEG”.
- The data is not formatted in JPEG even though it has the extension “.JPG” or “.JPEG”.
- Length or width of image is more than 4720 dots.
- Remove the disc and select “CUSTOM SETUP” from the setup items. Then select “DATA CD PRIORITY” and set to “JPEG” again (page 26).
- Playback is possible up to 8 levels.
- Progressive JPEG format files cannot be played on this system.
- The maximum number of albums (99) or files (250) is exceeded (page 6).

The album title, track title and ID3 tag do not appear correctly.

- Use a disc that conforms with ISO9660 level 1/level 2, Joliet or Multi Session in the expansion format.
 - The ID3 tag displays only the track title information and applies only to version 1.
-

Picture

There is no picture.

- Press FUNCTION repeatedly until “DVD” or “VIDEO” appears.
- Check that the system is connected securely.
- The SCART cord is damaged. Replace it with a new one.
- Make sure you connect the system to the input jack of your TV (page 9).
- Make sure you turn on the TV and operate the TV correctly.
- Make sure you select the video input on the TV so that you can view the pictures from the system.

Picture noise appears.

- Try moving the system to a place without vibration.
- Clean the disc.
- If video from your DVD player has to go through your VCR to get to your TV, the copy-protection applied to some DVD programs could affect picture quality. If you still experience problems after checking your connections, please try connecting your DVD player directly to your TV (page 9).

The aspect ratio of the screen cannot be changed even though you set “TV TYPE” in “SCREEN SETUP” in the Setup Display when you play a wide picture.

- The aspect ratio is fixed on your DVD.
 - Depending on the TV, you may not change the aspect ratio.
-

Tuner

Severe hum or noise/stations cannot be received. (“TUNED” or “ST” flashes in the display.)

- Set the proper band and frequency (page 38).
- Connect the antenna properly (page 9).
- Find a place and an orientation that provide good reception, then set up the antenna again. If you cannot obtain good reception, we recommend you connect a commercially available external antenna.
- The supplied FM lead antenna receives signals along its entire length, so make sure you extend it fully.
- Locate the antennas as far away from the speaker cords as possible.
- Consult your nearest Sony dealer if the supplied AM antenna has come off the plastic stand.
- Try turning off surrounding electrical equipment.

A stereo FM program cannot be received in stereo.

- Press FM MODE until “MONO” disappears.
-

Optional components

There is no sound.

- Refer to General item “There is no sound.” (page 55) and check the condition of the system.
 - Connect the component properly (page 51) while checking:
 - if the cords are connected properly.
 - if the cord plugs are firmly inserted all the way.
 - Turn on the connected component.
 - Refer to the operating instructions supplied with the connected component and start playing.
 - Check if proper function is selected.
-

If the system still does not operate properly after performing the above measures, reset the system as follows:

- 1 Disconnect the mains lead.
- 2 Reconnect the mains lead.
- 3 Press I/⏻ to turn on the system.
- 4 Press SPEAKER OUT MODE and SOUND FIELD + on the unit and move SA-CD/DVD lever on the unit to ■ at the same time.

The system is reset to the factory settings except for DVD settings. You should set the settings you made, such as the preset stations, clock, and timer.

To return the DVD setup to the default settings*, perform reset as follows:

- 1 Press DVD SETUP in stop mode.
- 2 Press ▲ or ▼ repeatedly to select "RESET", then press ENTER.
- 3 Press ▲ or ▼ repeatedly to select "YES", then press ENTER.
It takes a few seconds to complete. Do not press I/⏻ when resetting the system.

* Except for Parental Control settings

Messages

One of the following messages may appear or flash in the display during operation.

DVD/VIDEO CD/CD/Super Audio CD/MP3/JPEG

Cannot Play

- A disc that cannot be played was inserted (page 5).
- A disc with an unsupported Region code was inserted.

Data Error

The JPEG file is an unsupported format.

DVD No Disc

There is no disc in the player.

Eject

The DVD player is ejecting the disc.

No Disc

There is no disc in the player.

Not in Use

You pressed an invalid button.

PASSWORD

Custom Parental Control or Parental Control is set.

Play Limit

The MP3 file cannot be played.

Please Wait

The function is switching to the DVD.

Push STOP!

You pressed PLAY MODE during play.

Reading

The system is reading TOC information of the disc. Some buttons are not available.

RESUME

You stopped play with Resume Play activated (page 15).

Step Full!

You tried to program 26 or more tracks (steps).

Timer

OFF TIME NG!

The Play Timer start and end times are set to the same time.

PUSH SELECT!

You tried to set the clock or timer during timer operation.

SET CLOCK!

You tried to select the timer with the clock not set.

SET TIMER!

You tried to select the timer with the timer not set.

Additional Information

Precautions

The nameplate is located on the bottom exterior.

On safety

- 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.
- Unplug the system from the wall outlet (mains) if it is not to be used for an extended period of time. To disconnect the power cord (mains lead), pull it out by the plug. Never pull the cord itself.
- Should any solid object or liquid fall into the system, unplug the system and have it checked by qualified personnel before operating it any further.
- AC power cord (mains) must be changed only at the qualified service shop.
- This system has operation levers. Households with small children should take care to install the system in a safe location so that children do not stumble and hurt themselves.

On placement

- Do not place the system in an inclined position.
- Do not place the system in locations where it is;
 - Extremely hot or cold
 - Dusty or dirty
 - Very humid
 - Subject to vibrations
 - Subject to direct sunlight
- Use caution when placing the unit or speakers on surfaces that have been specially treated (with wax, oil, polish, etc.) as staining or discoloration of the surface may result.

On heat buildup

- Although the system heats up during operation, this is not a malfunction.
- Place the system in a location with adequate ventilation to prevent heat buildup in the system.
- If you continuously use this system at a high volume, the cabinet temperature of the top, side and bottom rises considerably. To avoid burning yourself, do not touch the cabinet.
- To prevent a malfunction, do not cover the ventilation hole for the cooling fan.

In case color irregularity is observed on nearby a TV screen

With the magnetically shielded type of speaker system, the speakers can be installed near a TV set. However, color irregularity may still be observed on the TV screen depending on the type of your TV set.

If color irregularity is observed...

Turn off the TV set once, then turn it on after 15 to 30 minutes.

If color irregularity is observed again...

Place the speakers farther 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 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 lens inside the DVD player. Should this occur, the system will not operate properly. Remove the disc and leave the system turned on for about an hour until the moisture evaporates.
- When you move the system, take out any disc.

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

Notes on discs

- Before playing, clean the disc with a cleaning cloth. Wipe the disc from the center out.
- Do not use solvents such as benzene, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.
- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight.
- Do not use discs encircled with a protection ring. This may cause a malfunction to the system.
- When using discs that have glue or similar tacky substance on the label side of the disc or that used a special ink when the label was printed, there is a chance that the disc or label may become attached to parts inside this unit. When this occurs, it may not be possible to remove the disc, and may also cause this unit to malfunction. Be sure to check that the label side of the disc is not sticky before using.
The following types of disc should not be used:
 - Rental or used discs with attached seals where the glue extends beyond the seal. The perimeter of the seal on the disc is tacky.
 - Discs that have labels printed using a special ink that feels tacky when touched.
- Discs with non-standard shapes (e.g., heart, square, star) cannot be played on this unit. Attempting to do so may damage the unit. Do not use such discs.

Cleaning the cabinet

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

Disc cleaning

Do not use a commercially available CD/DVD lens cleaning disc with this system, as this may result in malfunction.

Specifications

Main unit (HCD-SE5)

Amplifier section

The following measured at AC 230 V, 50/60 Hz

DIN power output (rated): 20 + 20 W
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference)

Front speaker: 25 + 25 watts
(6 ohms at 1 kHz, 10% THD)

Center speaker: 25 watts
(8 ohms at 1 kHz, 10% THD)

Surround speaker: 25 + 25 watts
(6 ohms at 1 kHz, 10% THD)

Subwoofer: 50 watts
(3 ohms at 1 kHz, 10% THD)

Music power output (reference):
40 + 40 W

Inputs

MD/TAPE IN (phono jack):
Voltage 250 mV,
impedance 47 kilohms

VIDEO/SAT IN (phono jacks):
Voltage 450/250 mV,
impedance 47 kilohms

VIDEO/SAT IN VIDEO (phono jack):
1 Vp-p, 75 ohms

MD DIGITAL IN OPTICAL:
Supported sampling
frequencies: 32 kHz,
44.1 kHz and 48 kHz

VIDEO/SAT DIGITAL IN OPTICAL:
Supported sampling
frequencies: 32 kHz,
44.1 kHz and 48 kHz

Outputs

MD/TAPE OUT (phono jacks):

Voltage 250 mV,
impedance 1 kilohm

MD DIGITAL OUT OPTICAL:

Sampling frequencies:
44.1 kHz (CD only)
Wavelength: 660 nm

PHONES (stereo phone jack):

Accepts headphones of
8 ohms or more

LINE-TV:

Max. output level
1 V_{p-p}, unbalanced, Sync
negative, load impedance
75 ohms

Disc player section

System

Compact disc, digital
audio and video system
and Super Audio CD

Laser

Semiconductor laser
(DVD: $\lambda=650$ nm,
CD: $\lambda=780$ nm)
Emission duration:
continuous

Frequency response

DVD (PCM 48 kHz):
2 Hz – 22 kHz
CD: 2 Hz – 20 kHz
Super Audio CD:
2 Hz – 50 kHz

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range

87.5 – 108.0 MHz
(50 kHz step)

Antenna

FM lead antenna

Antenna terminals

75 ohm unbalanced

Intermediate frequency

10.7 MHz

AM tuner section

Tuning range

531 – 1,602 kHz (with the
tuning interval set at
9 kHz)

Antenna

AM loop antenna

Antenna terminals

External antenna terminal

Intermediate frequency

450 kHz

Speaker

Front speaker SS-FSE9

Speaker system

2-way, 3-unit, bass-reflex
type, magnetically
shielded type

Speaker units

Woofer:

9 cm, cone type

Tweeter:

2.5 cm, balanced drive
type

Nominal impedance

6 ohms

Dimensions (w/h/d)

Approx. 120 × 285 ×
280 mm

Mass

Approx. 4.0 kg net per
speaker

Surround speaker SS-RSE9

Speaker system

1-way, 1-unit, closed type

Speaker units

Full-range:

7 cm, cone type

Nominal impedance

6 ohms

Dimensions (w/h/d)

Approx. 90 × 120 ×
120 mm

Mass

Approx. 0.7 kg net per
speaker

Center speaker SS-CSE9

Speaker system

1-way, 1-unit, closed type,
magnetically shielded type

Speaker units

Full-range:

7 cm, cone type

Nominal impedance

6 ohms

Dimensions (w/h/d)

Approx. 120 × 90 ×
120 mm

Mass

Approx. 0.8 kg

Subwoofer SS-WSE9

Speaker system

1-way, 1-unit, bass-reflex
type, magnetically
shielded type

Speaker units

Full-range:

15 cm, cone type

Nominal impedance

3 ohms

Dimensions (w/h/d)

Approx. 175 × 285 ×
280 mm

Mass

Approx. 4.5 kg

General

Power requirements	230 V AC, 50/60 Hz
Power consumption	55 watts 0.3 watts (in Power Saving Mode)
Dimensions (w/h/d)	Approx. 155 × 120 × 345 mm
Mass	Approx. 5.3 kg
Supplied accessories:	Remote Commander (1) Batteries (2) AM loop antenna (1) FM lead antenna (1) Speaker cords (6)

Design and specifications are subject to change without notice.

Language code list














For details, see pages 24 and 26.

The language spellings conform to the ISO639: 1988 (E/F) standard.

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

List of items that can be displayed and selected by disc type

When you press DVD DISPLAY, the following control menu items are displayed.

	Control Menu items	Function
	DISC	Displays the disc name inserted into the system. Selects the disc to be played.
	TITLE (DVD only) SCENE (VIDEO CD in PBC playback only) TRACK (VIDEO CD only)	Selects the title (DVD), the scene (VIDEO CD in PBC Playback), the track (VIDEO CD) to be played.
	CHAPTER (DVD only) INDEX (VIDEO CD only)	Selects the chapter (DVD) or the index (VIDEO CD) to be played.
	ALBUM (MP3 only)	Selects the album (MP3) to be played.
	TRACK (CD/Super Audio CD/MP3 only)	Selects the track (CD/Super Audio CD/MP3) to be played.
	INDEX (CD/Super Audio CD only)	Selects the index (Super Audio CD) to be played. (For CD, index only is displayed.)
	TIME	Checks the elapsed time and the remaining playback time. Inputs the time code for picture and music searching.
	AUDIO (except for JPEG)	Changes the audio language while playing a disc recorded with multilingual audio tracks.
	SUBTITLE (DVD only)	Displays the subtitles. Changes the subtitle language.
	ALBUM (JPEG only)	Selects the album (JPEG) to be played.
	FILE (JPEG only)	Selects the file (JPEG) to be played.
	DATE (JPEG only)	Displays the date information.
	ANGLE (DVD only)	Changes the angle.
	PLAY MODE (except for DVD*)	Changes the play mode (Normal Play/Shuffle Play/Program Play) for the disc currently loaded to the system.
	REPEAT	Plays the entire disc (all titles/all tracks/all files), one title/chapter/album/track or contents of program repeatedly.
	CUSTOM PARENTAL CONTROL	Sets the disc to prohibit playback.

* For JPEG files, Normal Play mode only is available.

Tips

- Each time you press DVD DISPLAY, the Control Menu display changes cyclically as follows:
Control Menu display → Control Menu display off
- The Control Menu items differ depending on the disc.
- The Control Menu icon indicator lights up in green when you select any item except "OFF" ("REPEAT" only).
- The "ANGLE" indicator lights up in green only when multiple angles are recorded on the disc.

System setup item list

When you press DVD SETUP, the following settings are displayed.

LANGUAGE SETUP (page 26)

OSD	Select the language you want to use from the displayed language list.
DVD MENU	Select the language you want to use from the displayed language list.
AUDIO	Select the language you want to use from the displayed language list.
SUBTITLE	Select the language you want to use from the displayed language list.

SCREEN SETUP (page 29)

TV TYPE	<u>16:9</u> 4:3 LETTER BOX 4:3 PAN SCAN
SCREEN SAVER	<u>ON</u> OFF
BACKGROUND	<u>JACKET PICTURE</u> GRAPHICS BLUE BLACK
LINE	<u>VIDEO</u> RGB

CUSTOM SETUP (pages 26, 31)

PARENTAL CONTROL→	
TRACK SELECTION	<u>OFF</u> AUTO
AUDIO DRC	OFF <u>STANDARD</u> MAX
DATA CD PRIORITY	<u>MP3</u> JPEG
JPEG DATE	<u>MM/DD/YYYY</u> YYYY/MM/DD DD/MM/YYYY YYYY/DD/MM

SPEAKER SETUP (page 34)

SIZE	FRONT	<u>YES</u>
	CENTER	<u>YES</u>
	SURROUND	<u>BEHIND (LOW)</u>
		BEHIND (HIGH) SIDE (LOW) SIDE (HIGH)
	SUBWOOFER	<u>YES</u>
DISTANCE	FRONT	<u>3.0 m</u> (1.0 m – 7.0 m)
	CENTER	<u>3.0 m</u> (1.0 m – 7.0 m)
	SURROUND	<u>3.0 m</u> (1.0 m – 7.0 m)
LEVEL	CENTER	<u>0 dB</u> (–6 dB – +6 dB)
	SURROUND LEFT	<u>0 dB</u> (–6 dB – +6 dB)
	SURROUND RIGHT	<u>0 dB</u> (–6 dB – +6 dB)
	SURROUND	<u>0 dB</u> (–6 dB – +6 dB)
	SUBWOOFER	<u>0 dB</u> (–6 dB – +6 dB)
BALANCE	FRONT	--- (<u>CENTER</u>) (6 steps left or right)
TEST TONE	<u>OFF</u> ON	

RESET

YES
NO

Glossary

Album

Section of a music piece on a data CD containing MP3 audio tracks or JPEG image files.

Auto Pause

An automatic pause may occur according to the signal encoded on the disc while playing a VIDEO CD. If the DVD player does not resume play for a long time, press SA-CD/DVD ► to resume play manually.

Chapter

Subdivision of a title on a DVD. A title is composed of several chapters.

DCS (Digital Cinema Sound)

In collaboration with Sony Pictures Entertainment, Sony measured the sound environment of their studios and integrated the data of the measurement and Sony's own DSP (Digital Signal Processor) technology to develop "Digital Cinema Sound". "Digital Cinema Sound" simulates in a home theatre an ideal movie theatre sound environment based on the preference of the movie director.

Dolby Digital

This sound format for movie theatres 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" because the subwoofer channel is counted as 0.1 channel (since it functions only when a deep bass effect is needed). All six channels in this format are recorded separately to realize superior channel separation. Furthermore, since all the signals are processed digitally, less signal degradation occurs.

Dolby Surround Pro Logic

As one method of decoding Dolby Surround, Dolby Surround Pro Logic produces four channels from two-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 front speakers, surround speakers and a center speaker. The surround speakers output monaural sound.

Dolby Pro Logic II

Dolby Pro Logic II creates five full-bandwidth output channels from two-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.

- **Dolby Pro Logic II Movie**

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

- **Dolby Pro Logic II Music**

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

DTS

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

DVD

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

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

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

The audio data is recorded in Dolby Digital as well as in PCM, allowing you to enjoy more realistic audio presence.

Furthermore, various advanced functions such as the multi-angle, multilingual, and Parental Control functions are provided with the DVD.

File

Section of a picture on a data CD containing JPEG image files.

Film based software, Video based software

DVDs can be classified as Film based or Video based software. Film based DVDs contain the same images (24 frames per second) that are shown at movie theatres. Video based DVDs, such as television dramas or sit-coms, displays images at 30 frames (or 60 fields) per second.

Index (CD/Super Audio CD) / Video Index (VIDEO CD)

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

Menu Playback

Playback using the menu screens recorded on VIDEO CDs with PBC functions. You can enjoy simple interactive software using the menu playback function.

Multi-angle function

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

Multilingual function

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

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/region. The limitation varies from disc to disc; when it is activated, playback is completely prohibited, violent scenes are skipped or replaced with other scenes and so on.

Playback Control (PBC)

Signals encoded on VIDEO CDs (Version 2.0) to control playback. By using menu screens recorded on VIDEO CDs with PBC functions, you can enjoy playing simple interactive programs, programs with search functions, and so on.

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


VIDEO CDs without PBC functions (Ver. 1.1 discs)

Enjoy video playback (moving pictures) as well as music.

VIDEO CDs with PBC functions (Ver. 2.0 discs)

Play interactive software using menu screens displayed on the TV screen (PBC Playback), in addition to the video playback functions of Ver. 1.1 discs. Moreover, you can play high-resolution still pictures, if they are included on the disc.

Region Code

This system is used to protect copyrights. A region number is allocated on each DVD system or DVD disc according to the sales region. Each region code is shown on the system as well as on the disc packaging. The system can play the discs that match its region code. The system can also play discs with the “” mark. Even when the region code is not shown on the DVD, the region limit may still be activated.

Scene

On a VIDEO CD with PBC functions (page 16), the menu screens, moving pictures, and still pictures are divided into sections called “scenes”. Each scene is assigned a scene number enabling you to locate the scene you want.

Super Audio CD

Super Audio CD is a new high quality audio disc standard that records using the DSD (Direct Stream Digital) format instead of the PCM format used for current CDs, etc. The DSD format has a sampling frequency 64 times that of current CDs, and uses 1-bit quantization to ensure a sufficient dynamic range and more faithfully reproduce the original sound over a vastly wider playback range and audible range than current CDs.

There are various types of Super Audio CD as follows.

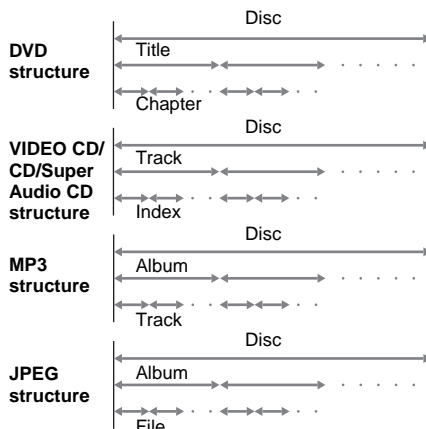
- Super Audio CD (single layer disc)
Discs with only a single HD (high density) layer (high density signal layer for Super Audio CD)
- Super Audio CD (dual layer disc)
Discs with two HD layers that allow long-time playback. These discs have a two-layer structure but only one side is read, so there is no need to turn over the disc.
- Super Audio CD+CD (hybrid disc)
Two-layer discs with a HD layer and a CD layer. These discs have a two-layer structure but only one side is read, so there is no need to turn over the disc. In addition, the CD layer contents can be played even by a normal CD player.
- Two-channel + multi-channel Super Audio CD discs
Super Audio CD discs with both a two-channel area and a multi-channel area recorded in the HD layer.

Title

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

Track

Sections of a picture or a music piece on a CD, VIDEO CD, MP3 or JPEG. Each track is assigned a track number enabling you to locate the track you want.



VIDEO CD

A compact disc that contains moving pictures. The picture data uses the MPEG 1 format, one of the worldwide standards for digital compression technology. The picture data is compressed to about 1/140 of its original size. Consequently, a 12 cm VIDEO CD can contain up to 74 minutes of moving pictures.

VIDEO CDs also contain compact audio data. Sounds outside the range of human hearing are compressed while the sounds we can hear are not compressed. VIDEO CDs can hold 6 times the audio information of conventional audio CDs.

There are 2 versions of VIDEO CDs.

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

This system conforms to both versions.

Remote control

ALPHABETICAL ORDER

A - F

ALBUM +/-*² **13** (14, 17, 20)
 ANGLE*² **8** (28)
 AUDIO*² **8** (24)
 CLEAR **20** (19, 20, 23, 34, 41)
 CLOCK/TIMER SELECT **12** (46)
 CLOCK/TIMER SET **12** (12, 45)
 DD SG **14** (44)
 DVD DISPLAY*² **9** (14, 17, 19, 22, 24, 28, 30, 49, 50, 66)
 DVD MENU*² **13** (16)
 DVD SETUP*² **24** (12, 26, 29, 31, 34, 59, 67)
 ENTER **16** (10, 12, 14, 16, 17, 19, 20, 22, 24, 28, 30, 34, 38, 40, 45, 52, 59)
 FM MODE **22** (40)
 FUNCTION **19** (9, 12, 13, 20, 52)

G - Z

GROUP SKIP*¹ **7**
 MD GROUP*¹ **7**
 MENU/NO **4** (38, 40, 52)
 NAME EDIT/SELECT **10** (40)
 Number buttons **3** (15, 16, 21, 23, 26, 28, 30, 39, 40)
 PC LIB*¹ **21**
 PLAY MODE **18** (14, 20)
 REPEAT **22** (18, 21)
 SCROLL **23** (49)
 SLEEP **2** (45)
 SOUND FIELD +/- **6** (42, 43)
 SPEAKER OUT MODE **17** (35, 42, 43)
 SUBTITLE*² **8** (26)
 TOP MENU*² **13** (16)
 TUNER BAND **15** (38, 39)
 TUNING MODE **18** (38, 39)
 VOLUME +/- **11** (36, 45)

BUTTON DESCRIPTIONS

I/⏻ (power) **1** (10, 46, 59)
 MD ▶*¹ (play) **5**
 PC ▶*¹ (play) **5**
 SA-CD/DVD ▶/SELECT (play) **5** (14, 29)
 TAPE ◀▶*¹ (play) **5**
 +/- **16** (38)
 || (pause) **16** (14)
 ■ (stop) **16** (14, 30)
 ▲/▼/◀/▶ **16** (10, 14, 24, 59)
 ◀◀/▶▶ (rewind/fast forward) **16** (12, 14, 40)
 ◀◀/▶▶ (go back/go forward) **16** (12, 14, 38, 45)
 ◀◀/▶▶ (slow review/slow play) **16** (14)
 RETURN ↻*² **25** (16, 31)

*¹ This button does not function.

*² Please operate with the cover closed.

