

SONY[®]

2-581-681-41 (1)

Multi Disc Player

Operating Instructions _____ **US**

Mode d'emploi _____ **FR**

Owner's Record

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

Model No. MEX-R5 Serial No. _____

For installation and connections, see the supplied installation/connections manual.
En ce qui concerne l'installation et les connexions, consulter le manuel
d'installation/raccordement fourni.



MEX-R5

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MEX-R5
2-581-681-41 (1)

Warning

To prevent fire or shock hazard, do not expose the unit to rain or moisture. To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

CAUTION

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

Refer servicing to qualified personnel only.

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

This label is located on the drive unit's internal chassis.

Warning if your car's ignition has no ACC position

After turning the ignition off, be sure to press and hold **OFF** on the unit until the display disappears.

Otherwise, the display does not turn off and this causes battery drain.

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

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

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

Operation is subject to the following two conditions;

- this device may not cause interference.
- this device must accept any interference, including interference that may cause undesired operation of the device.

Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits.

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Welcome!

Thank you for purchasing this Sony Multi Disc Player. Before operating this unit, read this manual thoroughly and retain it for future reference.

FEATURING:

- **DVD, CD, VCD playback compatibility**
 - Compatible with various disc formats, such as DVD-R/-RW, DVD+R/DVD+RW, etc.
 - DVD-RW: compatible with Video mode and VR mode (various editing available)
 - DVD+RW: compatible with +VR mode (various editing available)
 - Plays back up to 1,000 tracks*1 recorded on DVD-R/-RW, DVD+R/+RW or CD-R/-RW in MP3 file format
- **1 video output (front) and 1 digital output provided**
- **Wireless transmission:** without complicated connections, audio/video signals can be transmitted to the optional monitor XVM-F65WL.
- **Zone x Zone:** You can listen to the radio, or music from a CD/MD changer (if connected) in the front, and simultaneously output DVD to the rear.
- **Picture EQ:** You can select desired picture tone from preset settings according to the car interior/ambient light.
- **DVD level adjustment:** balances the output level differences between PCM, Dolby Digital and DTS, and the volume level differences between disc and source.
- **EQ7:** You can select an equalizer curve for 7 music types.
- **DSO (Dynamic Soundstage Organizer):** creates a more ambient sound field, using virtual speaker synthesis, to enhance the sound of speakers, even if they are installed low in the door.
- **Optional CD/MD units** (both changers and players)*2.

*1 Depends on track length

*2 This unit works with Sony products only.



The “XM Ready” logo indicates that this product will control an XM tuner module (sold separately). Please see your nearest authorized Sony dealer for details on the XM tuner module.

About this manual

- Instructions in this manual describe the controls on the card remote commander. You can also use the controls on the unit if they have the same or similar names to those on the card remote commander.
- In this manual, “DVD” is used as the general term for DVD-R/-RW and DVD+R/+RW.
- The meaning of the icons used in this manual is described below:

Icon	Meaning
	Functions available for DVD VIDEOS, DVD-Rs/DVD-RWs, or DVD+Rs/DVD+RWs in Video mode
	Functions available for Video CDs or CD-Rs/CD-RWs in video CD format
	Functions available for music CDs or CD-Rs/CD-RWs in music CD format
	Functions available for files in MP3 format stored on CD-ROMs/CD-Rs/CD-RWs/DVD-Rs/DVD-RWs/DVD+Rs/DVD+RWs
	Functions available for files in JPEG format stored on CD-ROMs/CD-Rs/CD-RWs/DVD-Rs/DVD-RWs/DVD+Rs/DVD+RWs

Precautions

- Do not use the custom functions while driving, or perform any other function which could divert your attention from the road.
- If your car has been parked in direct sunlight, allow the unit to cool off before operating it.
- Power antenna will extend automatically while the unit is operating.

On safety

- Comply with the Traffic Laws in your country.
- For your safety, the monitor connected to the FRONT VIDEO OUT turns off automatically when the parking brake is not applied.

Preventing an accident

The pictures appear only after you park the car and set the parking brake.

When the car starts moving, the pictures coming from the FRONT VIDEO OUT automatically disappear after displaying the following caution.

The monitor connected to the REAR VIDEO OUT is available while the car is in motion. The pictures on the screen are turned off, but CD/MP3 sound can be heard.

For your safety,
the video is blocked.

Do not operate the unit or watch the monitor while driving.

Moisture condensation










On a rainy day or in a very damp area, moisture condensation may occur inside the lenses and display of the unit. Should this occur, the unit will not operate properly. In such a case, remove the disc and wait for about an hour until the moisture has evaporated.

To maintain high sound quality

Be careful not to splash juice or other soft drinks onto the unit or discs.



Playable discs

Format of discs	
DVD VIDEO	
DVD-R* (MP3/JPEG)	
DVD-RW* Video mode/VR mode (MP3/JPEG)	
DVD+R* (MP3/JPEG)	
DVD+RW* (MP3/JPEG)	
Video CD	
Audio CD	
CD-R* (MP3/JPEG)	
CD-RW* (MP3/JPEG)	

* Discs that are not finalized cannot be played.

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

DVD

A DVD contains both audio and visual data. A 12 cm (4 3/4 in) disc can hold 7 times the amount of data contained in a CD-ROM, which equals to 4 consecutive hours of playing time (8 hours for double-sided discs). DVDs are divided into 4 types: single sided single layer, single sided double layer, double sided single layer, and double sided double layer.

continue to next page →

Video CD (VCD)

A Video CD can contain both audio and visual data on a disc the same size as a regular Audio CD. The playing time is 74 minutes for a standard 12 cm (4 3/4 in) CD.

Audio CD

An Audio CD containing audio data. The playing time is 74 minutes for a standard 12 cm (4 3/4 in) CD.

CD-Recordable (CD-R)

With a CD-R, you can edit audio data. You can write information on a CD-R only once.

CD-Rewritable (CD-RW)

With a CD-RW, you can edit audio data. You can write information on a CD-RW again and again.

CD-Extra

A CD-Extra has two sections (sessions) for audio and data respectively. You can only play the section of audio on this unit.

Notes

- This unit conforms to the NTSC color system. A disc recorded in a color system other than NTSC, such as PAL or SECAM, cannot be played.
- You can play DVD-Rs/DVD-RWs, DVD+Rs/DVD+RWs and CD-Rs/CD-RWs designed for audio with this unit. However, depending on the recorded conditions, you cannot play some discs.
- You cannot play CD-Rs/CD-RWs, DVD-Rs/DVD-RWs or DVD+Rs/DVD+RWs that are not finalized.
- Discs created in Packet Write format cannot be played.
- Recordable discs may not play back correctly if the ambient temperature is high.
- The discs listed below cannot be played on this unit:
 - 8 cm (3 1/4 in) discs
 - CD-ROM (the data other than the MP3 or JPEG files)
 - CD-G
 - Photo-CD
 - VSD (Video single disc)
 - DVD-ROM (the data other than the MP3 or JPEG files)
 - DVD-RAM
 - DVD-Audio
 - DVD+R DL (Dual Layer)
 - Active-Audio (Data)
 - CD-Extra (Data)
 - Mixed CD
 - SVCD (Super Video CD)
 - CDV
 - SACD (Super Audio CD)

Note on transparent discs

12 cm (4 3/4 in) discs containing of only an inner 8 cm (3 1/4 in) data portion (the rest is transparent) cannot be played on this unit.

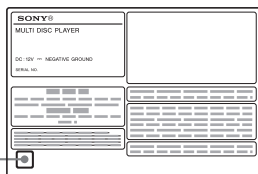
Music discs encoded with copyright protection

This unit is designed to play back discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection 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 and recordable by this product.


Region code

This system is used to protect software copyrights.

The region code is located on the bottom of the unit, and only DVDs labeled with an identical region code can be played on this unit.



Region code

DVDs labeled  can be also played on this unit.

If you try to play any other DVD, the message "Cannot play this disc." will appear on the monitor screen. Depending on the DVD, no region code may be labeled even though playing the DVD is prohibited by area restrictions.

Note on playback operations of DVDs and VCDs

Some playback operations of DVDs and VCDs may be intentionally set by software producers. Since this unit plays DVDs and VCDs 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 VCDs.

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.

Manufactured under license from Dolby Laboratories.

"Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

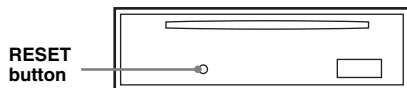
"DTS" and "DTS 2.0 + Digital Out" are trademarks of Digital Theater Systems, Inc.



Getting Started

Resetting the unit

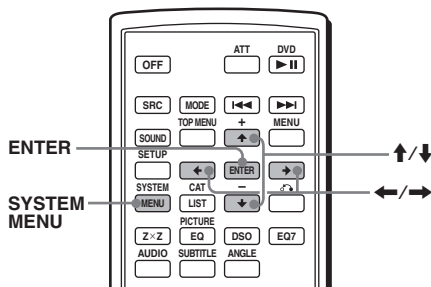
Before operating the unit for the first time, or after replacing the car battery or changing the connections, you must reset the unit. Detach the front panel and press the RESET button with a pointed object, such as a ball-point pen.



Note
Pressing the **RESET** button will erase the clock setting and some stored contents.

Setting the clock

The clock uses a 12-hour digital indication.



- 1 Press **SYSTEM MENU**.
The setup display appears.
- 2 Press **↑/↓** repeatedly until **"CLOCK-ADJ"** appears.
- 3 Press **ENTER**.
The hour indication flashes.
- 4 Press **↑/↓** to set the hour and minute.
To move the digital indication, press **←/→**.
- 5 Press **ENTER**.
The clock starts.

To display the clock during playback/reception, set **"CLOCK-ON"** (page 36).

DEMO mode

When the unit is turned off, the clock is displayed first, then demonstration (DEMO) mode starts the demonstration display.

To cancel the DEMO mode, set **"DEMO-OFF"** in setup (page 36) while the unit is turned off.

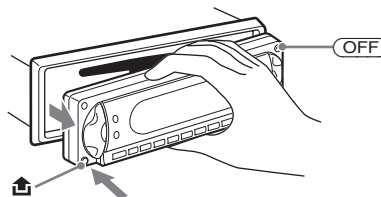
Detaching the front panel

You can detach the front panel of this unit to prevent theft.

Caution alarm

If you turn the ignition switch to the OFF position without detaching the front panel, the caution alarm will sound for a few seconds. The alarm will only sound if the built-in amplifier is used.

- 1 Press **OFF**.
The unit is turned off.
- 2 Press **⏏**, then pull it off towards you.



Notes

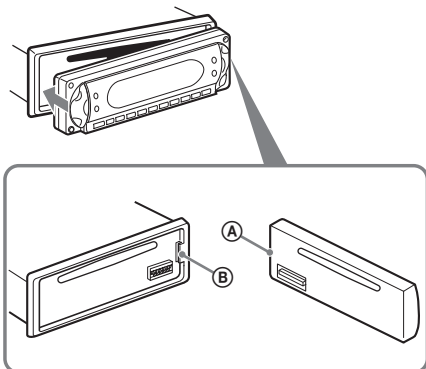
- Do not drop or put excessive pressure on the front panel and display window.
- Do not subject the front panel to heat/high temperature or moisture. Avoid leaving it in a parked car or on a dashboard/rear tray.

Tip

When carrying the front panel, use the supplied front panel case.

Attaching the front panel

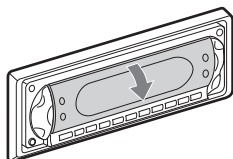
Engage part **A** of the front panel with part **B** of the unit, as illustrated, and push the left side into position until it clicks.



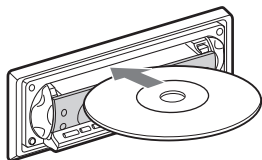
Note
Do not put anything on the inner surface of the front panel.

Inserting the disc in the unit

1 Open the shutter.

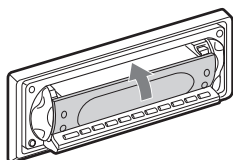


2 Insert the disc with the playback side down.



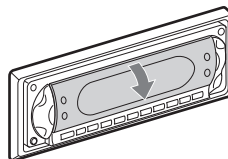
Playback starts. (Depending on the disc, press DVD **▶||** to start playback.)

3 Close the shutter.

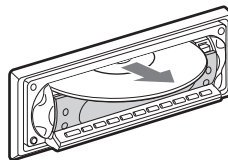
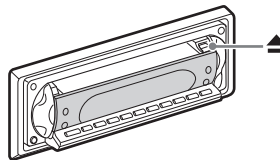


Ejecting the disc

1 Open the shutter.



2 Press **▲**.



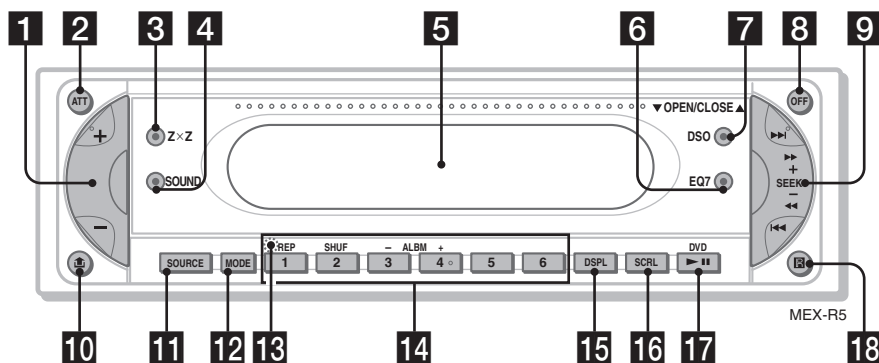
The disc is ejected.

Note
While inserting or ejecting the disc, do not close the shutter. The disc may be caught and damaged.

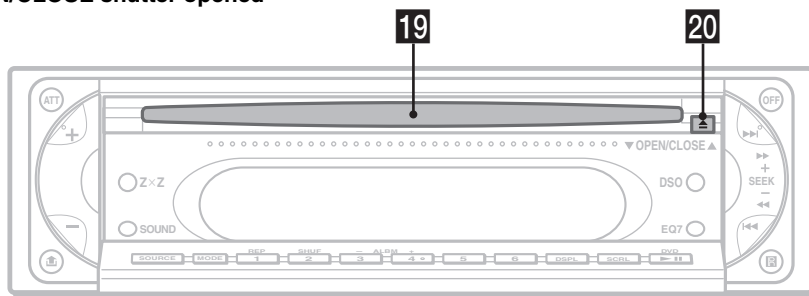
Tip
The disc can be played with the shutter open or closed.

Location of controls and basic operations

Main unit



OPEN/CLOSE shutter opened



Refer to the pages listed for details.

- 1** Volume +/- button 34
- 2** ATT (attenuate) button
- 3** ZxZ (Zone x Zone) button
- 4** SOUND button
- 5** Display window
- 6** EQ7 (equalizer) button
- 7** DSO button
- 8** OFF button 8
- 9** SEEK +/- button
Radio:
To tune in stations automatically (press); find a station manually (press and hold).
DVD/CD:
To skip chapters/tracks (press); fast-forward/reverse a chapter/track (press and hold).
- 10** (front panel release) button 8
- 11** SOURCE button 39
- 12** MODE button
- 13** RESET button (located behind the front panel) 8

14 Number buttons

- Radio:
To receive stored stations (press); store stations (press and hold).
CD/MD*1:
①: REP 20, 37
②: SHUF 20, 37
③/④: ALBM -/+*2
To skip albums (press); skip albums continuously (press and hold).

15 DSPL button

16 SCRL button

- To scroll the display items.

17 DVD (play/pause) button

18 Receptor for the card remote commander

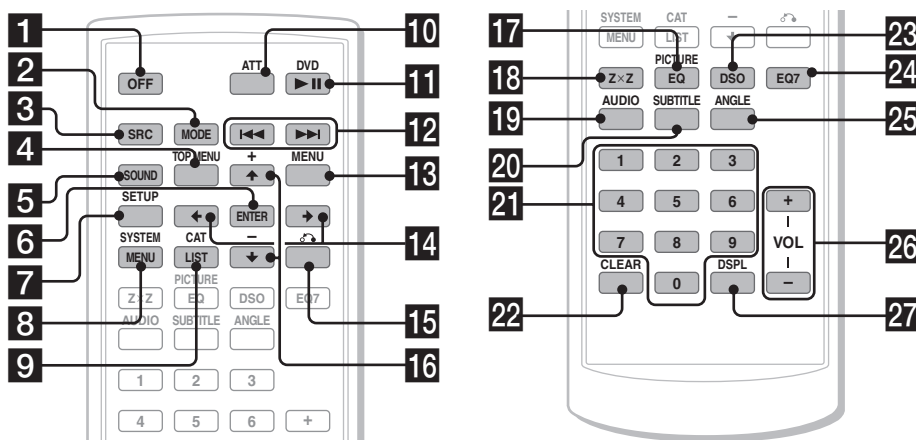
19 Disc slot 9

20 (eject) button 9

*1 When an MD changer is connected.

*2 When an MP3/JPEG is played and a changer is not connected. If the changer is connected, the operation is different, see page 37.

Card remote commander RM-X704



- 1 OFF button** 15, 17, 19
To power off/stop the source.
- 2 MODE button** 33, 37
To select the radio band (FM/AM)/select the unit*1.
- 3 SRC (SOURCE) button**
To power on/change the source (Radio/DVD/CD/MD*2/AUX*3).
- 4 TOP MENU button** 19
To display the top menu on a DVD.
- 5 SOUND button** 34
To select sound items.
- 6 ENTER button**
To complete a setting.
- 7 SETUP button**
To display the Setup menu and Play mode menu.
- 8 SYSTEM MENU button**
To enter the unit menu.
- 9 LIST/CAT*4 button** 33, 37
To list up.
- 10 ATT (attenuate) button**
To attenuate the sound. To cancel, press again.
- 11 DVD ►|| (play/pause) button** 9, 15, 16, 17
To start/pause playback.
- 12 ◀◀/▶▶ (previous/next; reverse/fast-forward; station tuning) buttons**
- 13 MENU button** 19
To display the menu on a disc.
- 14 ◀/▶ (cursor) buttons**
To move the cursor, or turn the pages.
- 15 ↶ (RETURN) button** 19, 28, 29
To return to the previous display, or previous operation.
- 16 ↑/↓ (cursor) buttons**
To move the cursor.
- 17 PICTURE EQ button** 25
To select the picture quality.
- 18 ZxZ (Zone x Zone) button** 39
To switch the front/rear output.
- 19 AUDIO button** 22
To change the audio output.
- 20 SUBTITLE button** 24
To change the subtitle language.
- 21 Number buttons**

continue to next page →

22 CLEAR button 21

To cancel entered numbers.

23 DSO button 4

To select the DSO mode (1, 2, 3 or OFF).
The larger the number, the more enhanced the effect.

24 EQ7 (equalizer) button

To select an equalizer type (XPLOD, VOCAL, CLUB, JAZZ, NEW AGE, ROCK, CUSTOM or OFF).

25 ANGLE button 23

To change the viewing angle.

26 VOL (volume) +/- button

To adjust the volume.

27 DSPL button 15, 17, 18, 35

To change display items.

*1 When a CD/MD changer is connected.

*2 When an MD changer is connected.

*3 When an optional Sony portable device is connected.

*4 When the XM tuner is connected.

Note

If the unit is turned off and the display disappears, it cannot be operated with the card remote commander unless (SOURCE) on the main unit is pressed, or a disc is inserted to activate the unit first.

Tip

For details on how to replace the battery, see "Replacing the lithium battery of the card remote commander" on page 39.

Menu displays

Use the menus of this unit to adjust the various functions and settings for playback.
The displaying menu differs depending on the status of the unit.

Setup menu

Appears when pressing (**SETUP**) while playback is stopped.

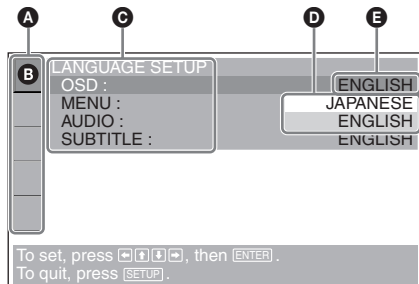
To select the item

Press ◀/▶/▲/▼, then press (**ENTER**).

To turn off the Setup menu

Press (**SETUP**).

Example: When "LANGUAGE SETUP" is selected.



- A** Setup items
- B** Selected item
- C** Setting items
- D** Options
- E** Current setting

Play mode menu DVD VCD JPEG

Appears when pressing (**SETUP**) during playback.

To select the item

Press ◀/▶/▲/▼, then press (**ENTER**).

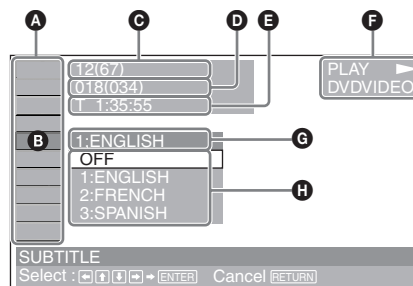
To turn off the Play mode menu

Press (**SETUP**).

Note

The items on the menu, and the operation procedures differ depending on the disc.

Example: When playing a DVD



- A** Play mode items
- B** Selected item
- C** Title number*/Total title number*1
- D** Chapter number*2/Total chapter number*2
- E** Elapsed playback time
- F** Playback status (▶PLAY, ⏸PAUSE, etc.)/
Disc format
- G** Current setting
- H** Options

*1 Displays the track number for VCDs, album number for JPEG files. When playing VCD with the PBC function on, no indication is displayed.

*2 Displays the image number for JPEG files.

Notes

- While playing back CD/MP3, the Play mode menu cannot be displayed.
- While playing back JPEG files, (**SETUP**) is active only when the image is fully displayed.

continue to next page →

Operation message

Menu operations differ depending on the item selected, and the buttons to be used appear on the bottom of the menu display to assist your operations.

To set, press , then **[ENTER]**.
To quit, press **[SETUP]**.

Selected item name and/or operation messages appear.

Tip

"Operation not possible" appears when the function is not available.

Setup items

LANGUAGE SETUP (page 29)
Switches the languages.

SCREEN SETUP (page 30)
Selects the screen modes.

CUSTOM SETUP (page 31)
Sets the playback operations.

AUDIO SETUP (page 32)
Adjusts the output sound.

RESET (page 29)
Resets all setup items.

Play mode items

TITLE, TRACK (page 21)
Selects the title, or track to be played.

CHAPTER (page 21)
Selects the chapter to be played.

ALBUM (JPEG) (page 21)
Selects the image album to be displayed.

IMAGE (page 21)
Selects the image to be displayed.

TIME/TEXT (page 17, 21)
Checks the elapsed time and the remaining playback time.
Inputs the time code for picture searching.
Displays DVD text.

AUDIO (page 22)
Changes the audio setting.

SUBTITLE (page 24)
Displays the subtitles.
Changes the subtitle language.

ANGLE (page 23)
Changes the angle.

CENTER ZOOM (page 24)
Magnifies the picture.

REPEAT (page 20)
Plays the entire disc (all titles/all tracks/all albums) repeatedly, or one chapter/track/album repeatedly.

SHUFFLE (page 20)
Plays titles/chapters/tracks in random order.

PICTURE EQ (page 25)
Selects the picture quality.

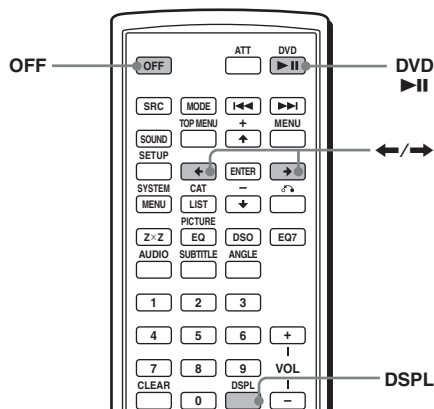
Tip

When "REPEAT" or "SHUFFLE" is activated, or "ANGLE" is available, its check-box lights up in green (e.g. \rightarrow). However, you may not be able to change the angle depending on the scene, even if the check-box is lit in green.

Player

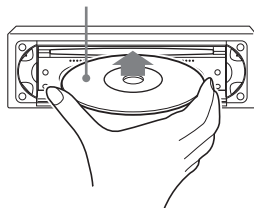
Playing discs


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




- 1 Turn on your monitor, then select the input source on your monitor corresponding to this unit.
- 2 Insert a disc.

Playback side down




Playback starts automatically. (Depending on the disc, press DVD  to start playback.)
A menu may appear on the screen when a DVD or VCD is inserted.
For details on these menus, see page 19 for DVDs, and page 19 for VCDs.

When "MP3/JPEG" on "CUSTOM SETUP" is set to "JPEG," a slide show starts automatically if JPEG files are on the disc (page 31).
Each time you press , the image rotates every 90°.


Notes

- If a large-size image is rotated, it may take longer to display.
- A JPEG file is designed to be optimally displayed at 640 x 480 pixels. A file in another size may not be displayed correctly, or picture shift (to the left or right) may occur.
- Progressive JPEG files cannot be displayed.

When the disc is inserted

Press DVD  to start playback.

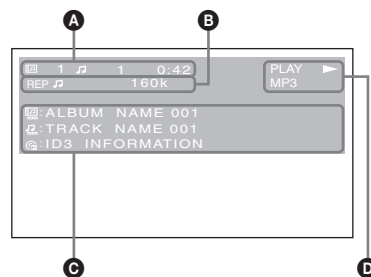
To stop playback/to turn off the unit


Press .

Tip

You cannot insert a disc while the unit is turned off.

Display items on the CD/MP3 playback




- A** Album number*1/Track number/
Elapsed playback time
- B** Playback mode/Bit rate*1*2
- C** Disc name*3/Album name*1/Track name/
ID3 tag information*1
- D** Playback status (▶PLAY, , etc.)/
Disc format

*1 Appears only when MP3 files are played.

*2 No indication when VBR (Variable bit rate) is applied.

*3 "NO DISC NAME" or "NO TRACK NAME" appears when the disc or track has no name.

To scroll the text information

Press .

Note

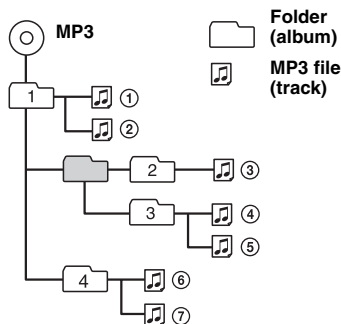
"_" appears in place of the letters other than the alphabet and numbers.

Notes on DVDs with a DTS sound track

DTS audio signal is output at all times; a loud noise may come out from the speakers if you connect the unit to the audio equipment without a DTS decoder. This may cause damage to the speakers, or affect your hearing.

continue to next page →

Playback order of MP3 files



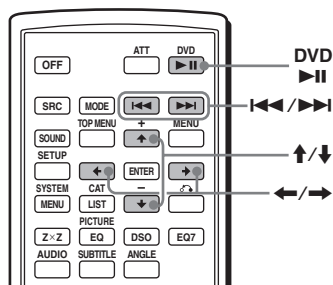
Notes

- The playback order may differ depending on the writing software.
- The unit can play up to 1,000 tracks and 256 albums. Tracks beyond the first 1,000 and albums beyond the first 256 cannot be recognized.

Tips

- If you add numbers (01, 02, 03, etc.) to the front of the track names, the tracks in each folder will be played in numerical order.
- Since a disc with many trees takes longer to start playback, it is recommended that you create albums of no more than two tree levels.
- For details on MP3 files, see "About MP3 files" on page 41.

Additional operations



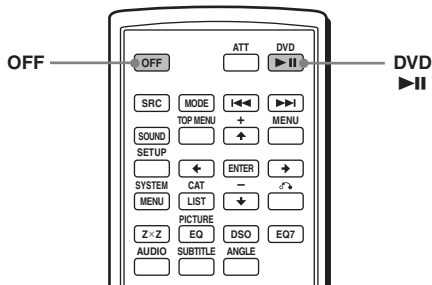
To	Operation
Pause	Press DVD ►
Resume play after pause	Press DVD ►
Go to the next chapter, track, or scene in continuous play mode	Press ►► (⇒)
Go back to the previous chapter, track, or scene in continuous play mode	Press ◀◀ (⇐)
Go to the next album	Press ↑*
Go to the previous album	Press ↓*
Stop play and remove the disc	Press ▲ after opening the shutter of the unit (page 9)

* Available only when MP3 or JPEG files are played.

Resuming playback

— Resume play **DVD VCD**

The unit stores the point where you stopped playback for up to 20 discs, and starts resuming playback even after the unit is turned off, or the disc being played is ejected.



1 During playback, press **OFF** to stop.

2 Press **DVD >II** to resume playback.

Playback starts from the point stopped in step 1.

To play from the beginning

After setting “MULTI-DISC RESUME” in “CUSTOM SETUP” to “OFF” (page 31), press **▲** to eject the disc, then insert the disc again. Select the desired chapter on the DVD menu or the Top menu depending on the disc.

Notes

- MP3 playback will start from the beginning of the last track that was played.
- To use resume playback, make sure that “MULTI-DISC RESUME” in “CUSTOM SETUP” is set to “ON” (page 31).
- When storing a resume point for the 21st disc, the stored resume point for the 1st disc is cleared automatically.
- Resume playback is canceled when the setting for the parental controls is changed.
- Depending on the disc or scene, you cannot use the resume playback.
- If parental control is applied, the resume playback will not work. In this case, playback starts from the beginning of the disc when it is inserted.

Tip

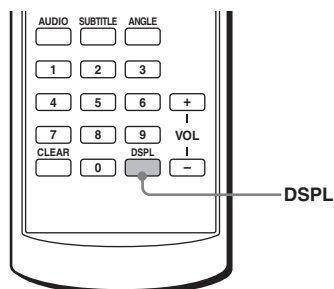
When CD, MP3 files, or JPEG files are played, the unit temporarily stores the resume point for the disc being played. Once the unit is turned off or the disc is ejected, the stored resume point for the disc is cleared.

Viewing the disc information

— Time/text information

DVD VCD JPEG

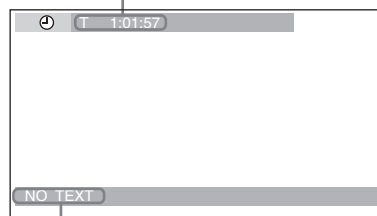
You can check the playing time and remaining time of the current title, chapter, or track. You can also check text information, such as name of title, chapter, file, etc.



1 During playback, press **DSPL**.

The current playback information appears.

Time information



Text information*

* “NO TEXT” appears when there is no text information.

continue to next page →

2 Press **[DSPL]** repeatedly to switch the time information.

Time information differs depending on the disc as follows:

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

VCD (without PBC functions):

“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

JPEG:

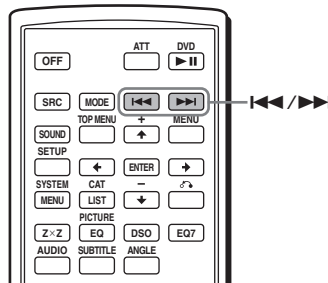
Album number

Image number

Searching a specific point on a disc

— Scan **DVD VCD CD MP3**

You can quickly locate a specific point on a disc by monitoring the picture.



During playback, press and hold **I<<</>>>**, and release at the desired point.

If you press and hold the button, searching speed increases.

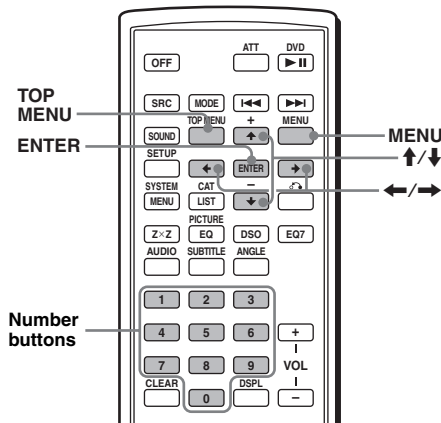
Note

While searching, audio is not output, and subtitles are not displayed.

Using the menus on DVDs



With some DVDs, you can use their original menu(s), such as the Top menu or DVD menu. If the DVD contains several titles of tracks and scenes, you can use the Top menu to select the desired title, and start playing. If the DVD contains more comprehensive menu items, such as the audio and subtitle languages, titles, chapters, etc., you can use the DVD menu to select the desired item, and start playing.



- 1 During DVD playback, press (TOP MENU) or (MENU).**
The DVD menu or Top menu appears.
The contents of the menu differ depending on the disc.
- 2 Press ←/↑/↓/→, or the number buttons to select the desired item, then press (ENTER).**

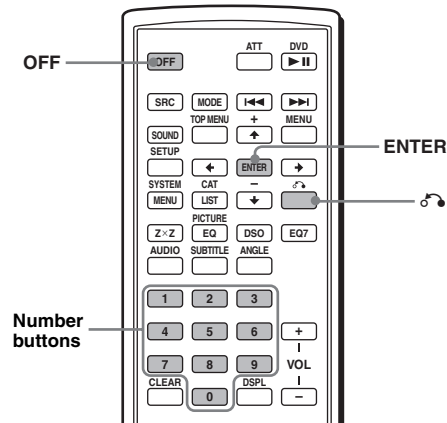
Note

The items on the menu, and the operation procedures differ depending on the disc.

Using PBC functions

— PBC (Playback control) VCD

The PBC menu assists your operation interactively while a PBC compatible VCD is played.



- 1 Start playing a PBC compatible VCD.**
The PBC menu appears.
- 2 Press the number buttons to select the desired item, then press (ENTER).**
- 3 Follow the instructions in the menu for interactive operations.**

To return to the previous display
Press ↶.

Playing without the PBC function

- 1 During playback, press (OFF).**
- 2 Press the number buttons to select the desired item, then press (ENTER).**
“Play without PBC” appears and playback starts.
The PBC menu does not appear during playback.

Notes

- The items on the menu, and the operation procedures differ depending on the disc.
- During PBC playback, the track number, playback time, etc., are not displayed in the Play mode menu.

Tip

To resume PBC playback, stop playback by pressing (OFF), then press DVD ►||. PBC playback starts.

Playing in various modes

— Repeat play/Shuffle play/Search play

You can set the following play modes:

- Repeat play (page 20)
- Shuffle play (page 20)
- Search play (page 21)

Notes

- The selected play mode is canceled when the disc being played is ejected or the unit is turned off.
- When playing a VCD with the PBC function on, Repeat play or Shuffle play is not available.

Playing repeatedly

— Repeat play DVD VCD CD MP3 JPEG

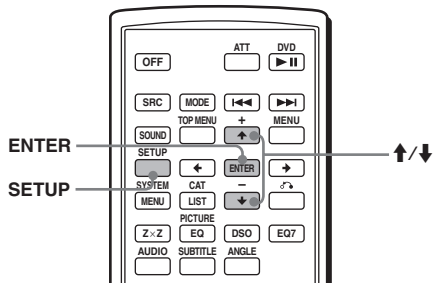
The unit can repeat a title, chapter, or track when the item being played reaches the end.

The following repeat options are available:

- TITLE (Title Repeat) - to repeat the current title.
- CHAPTER (Chapter Repeat) - to repeat the current chapter.
- TRACK (Track Repeat) - to repeat the current track/image.
- ALBUM (Album Repeat) - to repeat the tracks/images in the current album.

Note

When setting Repeat play for CD/MP3, operate with the main unit by pressing **1** (REP) repeatedly.



1 During playback, press **SETUP**.

The Play mode menu appears.

2 Press **↑/↓** to select **REP** (REPEAT), then press **ENTER**.

The Play mode options appear.

3 Press **↑/↓** to select the desired option, then press **ENTER**.

Repeat play starts.

To return to normal play

Select "OFF" in step 3.

To turn off the Play mode menu

Press **SETUP**.

20

Tips

- The repeat options differ depending on the disc.
- You can also set Repeat play by pressing **1** (REP) on the main unit repeatedly.

Playing in random order

— Shuffle play DVD VCD CD MP3 JPEG

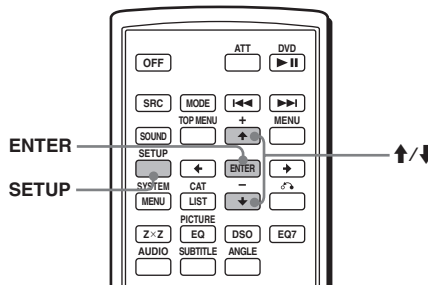
The unit can play titles, chapters or tracks in random order.

The following shuffle options are available:

- TITLE (Title Shuffle) - to play chapters in the current title in random order.
- DISC (Disc Shuffle) - to play tracks/images in the current disc in random order.
- ALBUM (Album Shuffle) - to play tracks/images in the current album in random order.

Note

When setting Shuffle play for CD/MP3, operate with the main unit by pressing **2** (SHUF) repeatedly.



1 During playback, press **SETUP**.

2 Press **↑/↓** to select **SHUF** (SHUFFLE), then press **ENTER**.

The Play mode options appear.

3 Press **↑/↓** to select the desired option, then press **ENTER**.

Shuffle play starts.

To return to normal play

Select "OFF" in step 3.

To turn off the Play mode menu

Press **SETUP**.

Notes

- Title shuffle play for DVD will be canceled after it is played once.
- Title shuffle play for DVD will be canceled if **1** (REP) or **2** (SHUF) is pressed during playback.

Tips

- The shuffle options differ depending on the disc.
- You can also set Shuffle play by pressing **2** (SHUF) on the main unit repeatedly.




Starting playback from a selected point

— Search play **DVD VCD CD MP3 JPEG**


You can quickly locate a desired point by specifying the title, chapter, elapsed time of the title (using the time code), or track.

The following search options are available depending on the disc:

DVD:

-  **TITLE** starts playing from the selected title.
-  **CHAPTER** starts playing from the selected chapter.
-  **TIME/TEXT** starts playing from the point according to the input time code.

VCD:

-  **TRACK** starts playing from the selected track.



CD:

- **TRACK** starts playing from the selected track.

MP3:

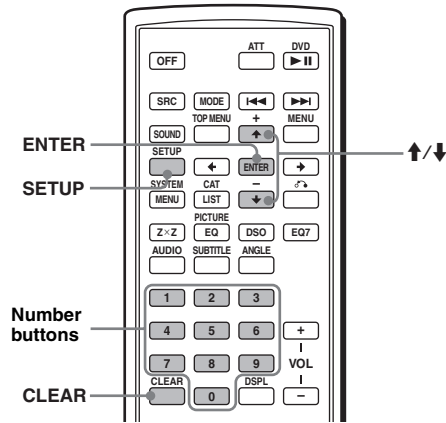
- **TRACK** starts playing from the selected track.

JPEG:

-  **ALBUM** starts playing from the selected album.
-  **IMAGE** starts playing from the selected image.

Note


When locating a track for CD/MP3, press the number buttons to enter track number, then press **(ENTER)**.

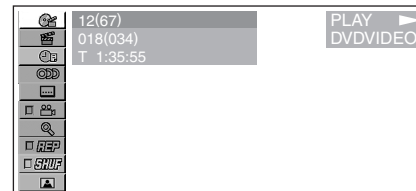


1 During playback, press **(SETUP)**.

The Play mode menu appears.

2 Press **↑/↓** to select the desired search item, then press **(ENTER)**.

The search items differ depending on the disc. 



The number in parentheses indicates the total number of items selected.

3 Press the number buttons to enter title number, chapter number, track number, or the elapsed time of the title.

For example, to find a desired point at 2 hours, 10 minutes, and 20 seconds after the beginning, just enter "2:10:20."

To clear the numbers already input, press **(CLEAR)**.

4 Press **(ENTER)**.

Playback starts from the selected point.

To turn off the Play mode menu

Press **(SETUP)**.

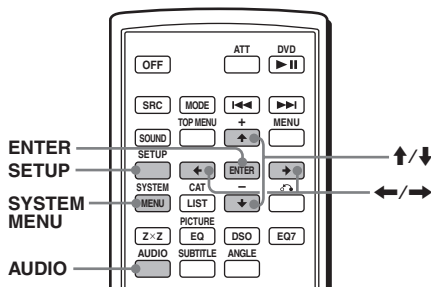
Various DVD operations

Changing the audio channels

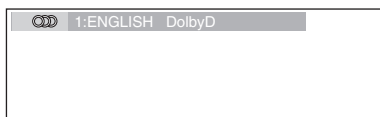


When playing a DVD recorded in multiple audio formats (PCM, Dolby Digital, or DTS), you can change the audio format. If the DVD is recorded with multilingual tracks, you can also change the language.

With VCDs, you can select the sound from the right or left channel and listen to the sound of the selected channel through both the right and left speakers. For example, when playing a disc containing a song with the vocals on the right channel and the instruments on the left channel, you can hear the instruments from both speakers by selecting the left channel.



During playback, press **AUDIO** repeatedly to select the desired audio channels.



Audio sound settings differ depending on the disc as follows:

DVD:

The audio language switches among the available languages.

When 4 digits appear, input the language code corresponding to the desired language (page 49).

When the same language is displayed two or more times, the DVD is recorded in multiple audio formats.

VCD:

STEREO*: Standard stereo sound

1/L: Left channel sound (monaural)

2/R: Right channel sound (monaural)

* The default setting

Note

You may not be able to change the audio channels depending on disc.

Tip

You can also change the settings by selecting "AUDIO" in the Play mode menu (page 13).

Checking the program format

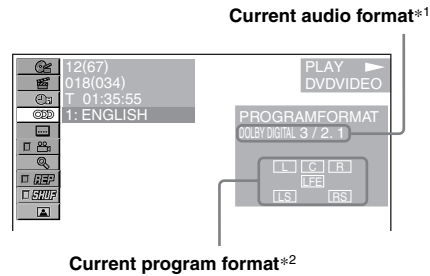
You can check the number of channels and component position on the DVD being played.

1 During playback, press **SETUP**.

The Play mode menu appears.

2 Press **↑/↓** to select **DD** (AUDIO), then press **ENTER**.

The program format appears.



The letters in the program format display represent the following sound components and its positions:

L : Front (left)

R : Front (right)

C : Center

LS : Rear (left)

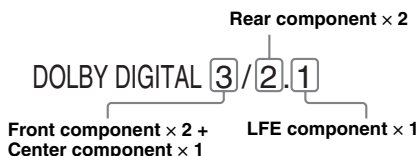
RS : Rear (right)

S : Rear (monaural): The rear component of the Dolby Surround processed signal and the Dolby Digital signal

LFE : Low Frequency Effect signal

When "DOLBY DIGITAL" is applied, the program format name and channel numbers appear as follows:

Example: Dolby Digital 5.1 ch



*1 "PCM," "DTS," or "DOLBY DIGITAL" appears depending on the disc.

*2 Appears only when the "DOLBY DIGITAL" format is applied.

To turn off the Play mode menu

Press **SETUP**.

Tip

For Dolby Digital and DTS, "LFE" is always enclosed in a solid line regardless of the LFE signal component being output.

Adjusting the audio output level

— DVD level adjustment

The audio output level for DVD video differs depending on the recorded audio format (PCM, Dolby Digital, or DTS). You can adjust the output level of PCM, Dolby Digital or DTS separately to reduce the volume level differences between disc and source.

- 1 Press **SYSTEM MENU**.
- 2 Press **↑/↓** repeatedly to select "DVD LVL," then press **ENTER**.
- 3 Press **→** to set to "ADJ-ON," then press **ENTER**.
- 4 Press **←/→** to select "DOLBY," "DTS" or "PCM."
- 5 Press **↑/↓** to adjust the output level, then press **ENTER**.



Note

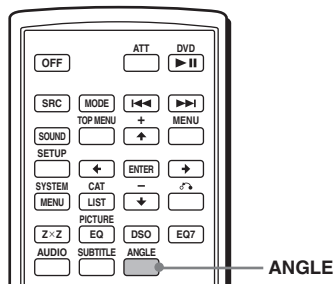
You can adjust the output level only when a disc is inserted in the unit.

Tip

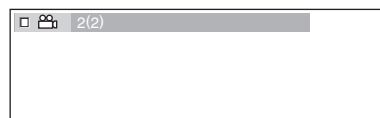
The output level is adjustable from -6 dB to +6 dB.

Changing the angles

You can change the viewing angle if various angles (multi-angles) for a scene are recorded on a DVD.



Press **ANGLE** repeatedly to select the desired angle number.



The angle changes.

Note

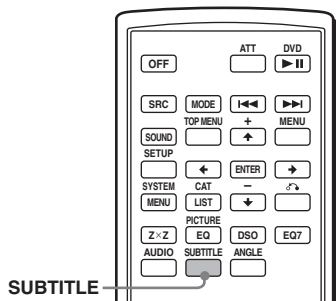
Depending on the DVD, you may not be able to change the angles, even if multi-angles are recorded.



Tip

You can also change the viewing angle by selecting "ANGLE" in the Play mode menu (page 13).

Displaying the subtitles

You can turn the subtitles on or off, or change the subtitle language if more are recorded on the DVD.




- 1 During playback, press .**
The subtitle language appears.
- 2 Press  repeatedly to select the desired language.**



Available languages will vary, depending on the disc.
When 4 digits appear, input the language code corresponding to the desired language (page 49).

To turn off the subtitles

Press  repeatedly to select "OFF."

Note

Depending on the DVD, you may not be able to change (or turn off) the subtitles, even if multilingual subtitles are recorded.

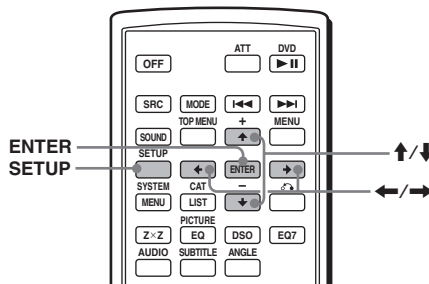
Tip







You can also change the subtitle language by selecting "SUBTITLE" on the Play mode menu (page 13), or the DVD menu (page 19).

Magnifying pictures





 

You can magnify pictures.



- 1 During playback, press .**
The Play mode menu appears.
- 2 Press  to select  (CENTER ZOOM), then press .**
The current option appears.
- 3 Press  to select the desired option (ZOOM×1, ×2*, ×4*), then press .**
The picture is magnified.
* The picture becomes grainy.

To shift the frame position

After magnifying the picture, press ///.

To restore the original scale

Select "ZOOM×1" in step 3.

To turn off the Play mode menu

Press .

Notes

- Depending on the DVD, you may not be able to change the magnification.
- If you resume playback, the picture returns to its original scale.

Changing the picture quality

— Picture EQ **DVD** **VCD**

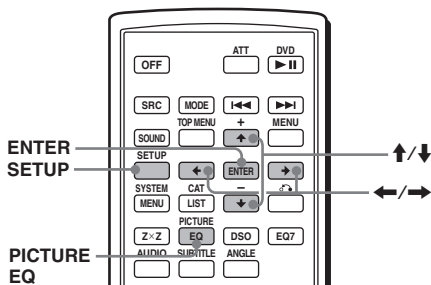
You can select picture quality suitable for the interior brightness of the car. You can set "PICTURE EQ" to "LIGHT OFF," "LIGHT ON," or "AUTO" in "CUSTOM SETUP" (page 31). The options (below) for each setting differ. If you set "PICTURE EQ" to "AUTO," the available options switch automatically depending on whether the light is on or off.

The following setting options are available.

- **NORMAL** - normal picture quality.
- **Daytime***1 - suitable in a bright place.
- **Sunset***1 - suitable when it gets little dark.
- **Shine***1 - suitable in a very bright place (e.g. when sunlight reflects on the monitor).
- **Night***2 - darkens the monitor to not distract your driving at night.
- **Midnight***2 - darkens the monitor more than the "Night" setting.
- **Theater***2 - brightens the monitor; suitable when you want to enjoy a bright monitor at night.
- **CUSTOM** - user-adjustable settings.

*1 Available when "PICTURE EQ" in "CUSTOM SETUP" is set to "LIGHT OFF," or "AUTO" and the light is off.

*2 Available when "PICTURE EQ" in "CUSTOM SETUP" is set to "LIGHT ON," or "AUTO" and the light is on.



During playback, press **PICTURE EQ** repeatedly to select the desired setting.



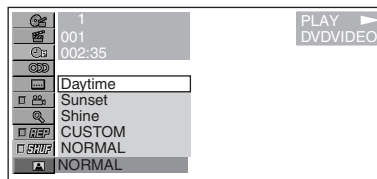
Tip

You can also change the picture quality by selecting "PICTURE EQ" in Play mode menu (page 13).

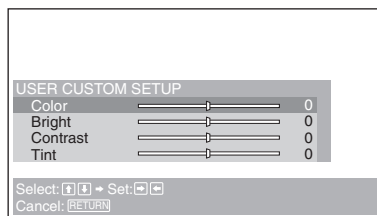
Adjusting the custom settings

You can store your own user-adjustable settings for different picture tones.

- 1 During playback, press **SETUP**.
The Play mode menu appears.
- 2 Press **↑/↓** to select **PICTURE EQ**, then press **ENTER**.
The setting items appear.



- 3 Press **↑/↓** to select "CUSTOM," then press **ENTER**.
- 4 Press **↑/↓** to select the setting item, then press **←/→** to adjust the level.



- 5 Press **ENTER**.

Tip

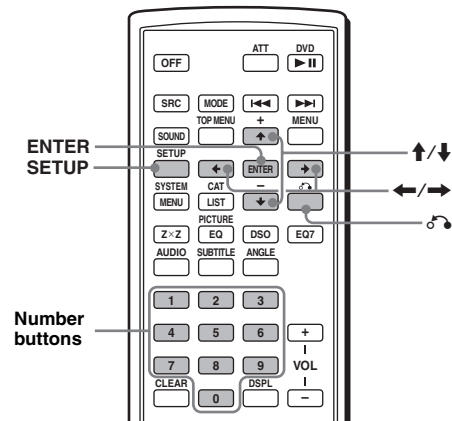
Adjustments for "LIGHT OFF" and "LIGHT ON" can be stored separately.

Locking discs

— Parental control

You can lock a disc, or set playback restrictions according to a predetermined level such as viewer age. Restricted playback scenes are blocked or replaced with different scenes when a parental control compatible DVD is played.

Setting the parental control on



- 1 Press **SETUP** while playback is stopped.

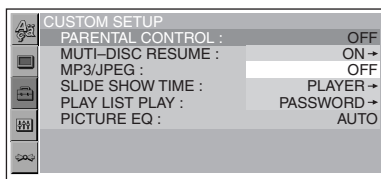
The set up menu appears.

- 2 Press **↑/↓** to select **CUSTOM SETUP**, then press **ENTER**.

The setting items appear.

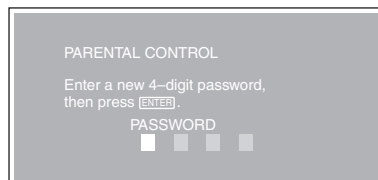
- 3 Press **↑/↓** to select **PARENTAL CONTROL**, then press **ENTER**.

The parental control options appear.



- 4 Press **↑/↓** to select **“ON →,”** then press **ENTER**.

The password setting display appears.



- 5 Press the number buttons to enter your password, then press **ENTER**.

The conformation display appears.

- 6 To confirm, press the number buttons to enter your password again, then press **ENTER**.

Parental control is set.

To turn off the Setup menu

Press **SETUP**.

Setting the parental control off

- 1 Press **SETUP** while playback is stopped.

The set up menu appears.

- 2 Press **↑/↓** to select **CUSTOM SETUP**, then press **ENTER**.

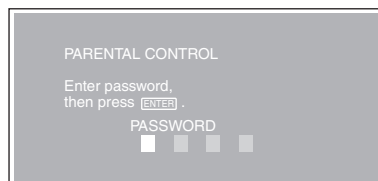
The setting items appear.

- 3 Press **↑/↓** to select **PARENTAL CONTROL**, then press **ENTER**.

The parental control options appear.

- 4 Press **↑/↓** to select **“OFF →,”** then press **ENTER**.

The display to enter your password appears.



- 5 Press the number buttons to enter your password, then press **ENTER**.

“Parental control is canceled” appears.

If a wrong number is entered, press **←** to move the cursor and enter the number again.

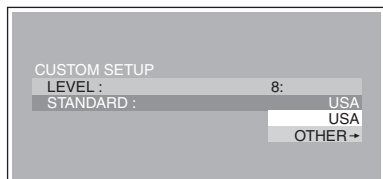
Changing the area and its movie rating level

You can set the restriction levels depending on the area and its movie ratings.

- 1 Press **SETUP** while playback is stopped.
The set up menu appears.
- 2 Press **↑/↓** to select **CUSTOM SETUP**, then press **ENTER**.
The setting items appear.
- 3 Press **↑/↓** to select **"PARENTAL CONTROL,"** then press **ENTER**.
The parental control options appear.
- 4 Press **↑/↓** to select **"PLAYER →,"** then press **ENTER**.
When the parental control is already set to on, the display to enter your password appears. To change the settings, enter your password number, then press **ENTER**.

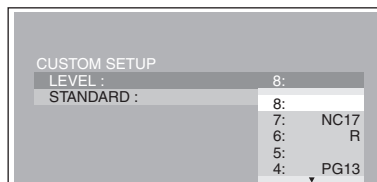
If a wrong number is entered, press **←** to move the cursor and enter the number again.

- 5 Press **↑/↓** to select **"STANDARD,"** then press **ENTER**.
The standard options appear.



- 6 Press **↑/↓** to select the desired area to apply its movie ratings, then press **ENTER**.
The area is selected.
When you want to select the standard on the "Area code list" (page 27), select **"OTHERS →,"** then enter its code number using the number buttons.

- 7 Press **↑/↓** to select **"LEVEL,"** then press **ENTER**.
The rating options appear.



The lower the number, the stricter the restriction level.

- 8 Press **↑/↓** to select the desired rating, then press **ENTER**.
Parental control setting is complete.

To turn off the Setup menu

Press **SETUP**.

Note

When you play discs which do not have the parental control, playback cannot be restricted on this unit.

Area code list

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
India	2248
Indonesia	2238
Italy	2254
Japan	2276
Korea	2304
Malaysia	2363

continue to next page →

Standard	Code number
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
Thailand	2528
United Kingdom	2184

Changing the password

- 1 Press **SETUP** while playback is stopped.
The Setup menu appears.
- 2 Press **↑/↓** to select **(CUSTOM SETUP)**, then press **ENTER**.
The setting items appear.
- 3 Press **↑/↓** to select **"PARENTAL CONTROL,"** then press **ENTER**.
The parental control options appear.
- 4 Press **↑/↓** to select **"PASSWORD →,"** then press **ENTER**.
The display to enter your password appears.
- 5 Press the number buttons to enter your 4-digit password, then press **ENTER**.
When a wrong number is entered, press **←** to move the cursor and enter the number again.
- 6 Press the number buttons to enter a new 4-digit password, then press **ENTER**.
- 7 To confirm, press the number button to enter your new 4-digit password again, then press **ENTER**.

To return to the previous display

Press **↶**.

To turn off the Setup menu

Press **SETUP**.

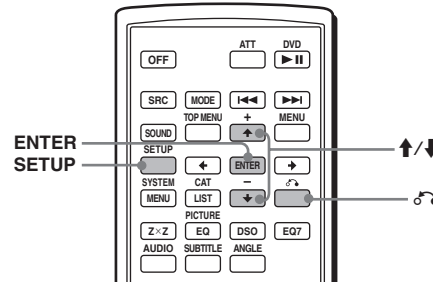
Settings and Adjustments

Using the Setup menu

By using the Setup menu, you can make various adjustments to items, such as picture and sound. You can also set a language for the subtitle and the on-screen display, among other things. For details on each setup items, see pages from 29 to 32.

Note

Playback settings stored in the disc take priority over the Setup menu settings, and not all the functions described may work.

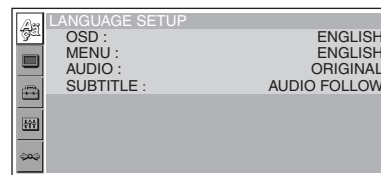


Basic operation

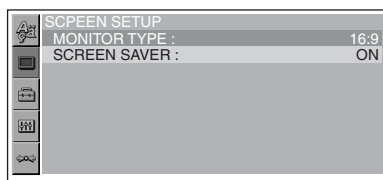
Example: When you want to change the aspect ratio ("MONITOR TYPE") to "4:3 PAN SCAN."


- 1 Press **SETUP** while playback is stopped.

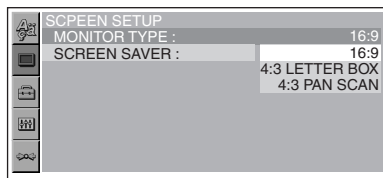
The Setup menu appears.




- 2 Press \uparrow/\downarrow to select  (SCREEN SETUP), then press .**
The setup display appears.



- 3 Press \uparrow/\downarrow to select "MONITOR TYPE," then press .**
The monitor type options appear.



- 4 Press \uparrow/\downarrow to select "4:3 PAN SCAN," then press .**
The setting is applied and setup is complete.

To return to the previous display

Press .


To turn off the Setup menu

Press .

To reset all the setting items

— Reset 

- 1 Select  (RESET) in step 2, then press .**

- 2 Press \uparrow to select "YES," then press .**

All the settings* on the Setup menu return to the default settings.

* Excluding parental control settings.

To cancel resetting

Select "NO" in step 2.


Note

Do not turn off the unit while resetting the Setup menu item as it takes a few seconds to complete.

Setting the display language or sound track

— Language setup

"LANGUAGE SETUP" allows you to set the desired language for the on-screen display or sound track accordingly.

Select  (LANGUAGE SETUP) in the Setup menu, then select the desired setting item. For details on the setup procedures, see "Using the Setup menu" on page 28.

OSD (On-Screen Display)

Switches the display language on the screen.

MENU

Switches the language for the menu on the disc.

AUDIO

Switches the language of the sound track. When you select "ORIGINAL," the language given priority in the disc is selected.

SUBTITLE

Switches the language of the subtitle recorded on the disc.

When you select "AUDIO FOLLOW," the language for the subtitles changes according to the language you selected for the sound track.

Note

When you select a language in "MENU," "SUBTITLE," or "AUDIO" that is not recorded on the disc, one of the recorded languages will be automatically selected.


Tip

If you select "OTHERS \rightarrow " in "MENU," "SUBTITLE," or "AUDIO," select and enter a language code from "Language code list" (page 49) using the number buttons.

Setting the screen

— Screen setup

“SCREEN SETUP” allows you to adjust the setting for the connected monitor.

Select  (SCREEN SETUP) in the Setup menu, then select the desired setting item. For details on the setup procedures, see “Using the Setup menu” on page 28. Setting items with “*” in the tables below are the default settings.

MONITOR TYPE

Selects the aspect ratio of the connected monitor (4:3 standard or wide).

16:9*	Displays the wide picture. Select this when you connect a wide-screen monitor or a monitor with a wide mode function.
4:3 LETTER BOX	Displays a wide picture with bands on the upper and lower portions of the screen. Select this when you connect a 4:3 screen monitor.
4:3 PAN SCAN	Displays a wide picture on the entire screen and automatically cuts off the portions that do not fit. Select this when you connect a 4:3 screen monitor.

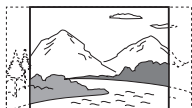
16:9



4:3 LETTER BOX




4:3 PAN SCAN



Note

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

SCREEN SAVER

Turns the screen saver on and off. The screen saver image appears when you leave the system in stop mode for 5 minutes. The screen saver will help prevent your display device from becoming damaged (afterimage). Press DVD  to turn off the screen saver.


ON	Turns on the screen saver.
----	----------------------------

OFF*	Turns off the screen saver.
------	-----------------------------

Custom settings

— Custom setup

“CUSTOM SETUP” allows you to set the playback conditions of this unit.

Select  (CUSTOM SETUP) in the Setup menu, then select the desired setting item. For details on the setup procedures, see “Using the Setup menu” on page 28. Setting items with “*” in the tables below are the default settings.

PARENTAL CONTROL

Sets the playback restrictions so that the unit will not play inappropriate discs or scenes (page 26).

ON →	Sets the parental control on.
OFF →*	Sets the parental control off.
PLAYER →	Sets the restriction standard and its level.
PASSWORD →	Sets a new 4-digit password.

MULTI-DISC RESUME

Stores resume playback points for up to 20 different discs.

ON*	Stores the resume settings in memory for up to 20 discs. (The settings remain in memory even if you select “OFF.”)
OFF	Cancels storing the resume settings in memory. Playback restarts at the resume point only for the current disc in the unit.

Note

If parental control is applied, the resume playback will not work. In this case, playback starts from the beginning of the disc when it is inserted.

MP3/JPEG

Sets the priority when MP3 files and JPEG files are on the same disc.

MP3*	Takes priority over JPEG files when playing.
JPEG	Takes priority over MP3 files when playing.

SLIDE SHOW TIME

Sets the time for displaying images on the disc.

5sec	Switches the images every 5 seconds.
10sec*	Switches the images every 10 seconds.
20sec	Switches the images every 20 seconds.
40sec	Switches the images every 40 seconds.
60sec	Switches the images every 60 seconds.
FIXED	Cancels switching images.

PLAY LIST PLAY

Sets priority between the originally recorded titles or the edited play list on a DVD-RW in VR mode.

ORIGINAL*	Takes priority over play list edited from the originally recorded titles.
PLAY LIST	Takes priority over originally recorded titles.

Notes

- Play list playback is available only for a DVD-RW in VR mode.
- When there is no play list created on a disc, the originally recorded titles are played.

PICTURE EQ


Selects to display the picture quality options.

AUTO*	Switches the options depending on whether the light is on or off. (Available only when the illumination control lead is connected.)
LIGHT OFF	Displays the options for daytime use.
LIGHT ON	Displays the options for nighttime use.

Audio settings

— Audio setup

“AUDIO SETUP” allows you to adjust the sound according to playback conditions and connected equipment.

Select  (AUDIO SETUP) in the Setup menu, then select the desired setting item. For details on the setup procedures, see “Using the Setup menu” on page 28. The setting items with “*” in the tables below are the default settings.

AUDIO DRC (Dynamic Range Control)



Makes the sound clear when the volume is turned down when playing a DVD that conforms to “AUDIO DRC.”

This setting affects the outputs of FRONT/REAR AUDIO OUT.

STANDARD*	Normally select this position.
WIDE RANGE	Gives you the feeling of being at a live performance.

DOWNMIX

Switches the method for mixing down to 2 channels when you play a DVD which has rear sound elements (channels) or is recorded in Dolby Digital format. For details on the rear signal components, see “Checking the program format” on page 22. This setting affects the output of FRONT/REAR AUDIO OUT.

SURROUND	Select this when the unit is connected to an audio component that conforms to Dolby Surround (Pro Logic).
----------	---

NORMAL*	Select this when the unit is connected to an audio component that does not conform to Dolby Surround (Pro Logic).
---------	---

DOLBY DIGITAL

Selects the type of Dolby Digital signal.

DOLBY DIGITAL*	Select this when the unit is connected to an audio component with a built-in Dolby Digital decoder.
DOWNMIX PCM	Select this when the unit is connected to an audio component lacking a built-in Dolby Digital decoder. You can select whether the signals conform to Dolby Surround (Pro Logic) or not by making adjustments to the “DOWNMIX” item in “AUDIO SETUP” (page 32).

DTS

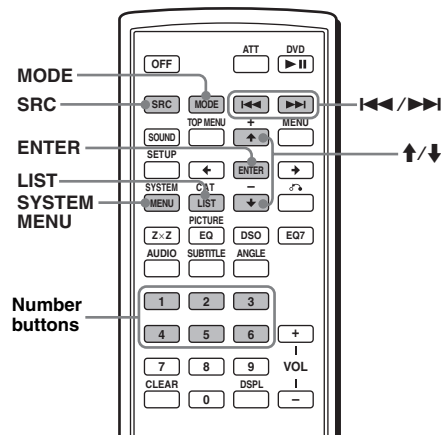
Selects whether or not to output DTS signals.

ON*	Select this when the unit is connected to an audio component with a built-in DTS decoder.
OFF	Select this when the unit is connected to an audio component lacking a built-in DTS decoder.

Radio

Caution

When tuning in stations while driving, use Best Tuning Memory (BTM) to prevent an accident.



Storing automatically

— BTM

- 1 Press **(SRC)** (SOURCE) repeatedly until “TUNER” appears.
To change the band, press **(MODE)** repeatedly. You can select from FM1, FM2, FM3, AM1 or AM2.
- 2 Press **(SYSTEM MENU)**, then press **↑/↓** repeatedly until “BTM” appears.
- 3 Press **(ENTER)**.
The unit stores stations in order of frequency on the number buttons (**(1)** to **(6)**).
A beep sounds when a setting is stored.

Storing manually

While receiving the station that you want to store, press and hold a number button (**(1)** to **(6)**) until “MEM” appears.

The number button indication appears in the display.

Note

If you try to store another station on the same number button, the previous stored station will be replaced.

Receiving the stored stations

Select the band, then press a number button (**(1)** to **(6)**) or **↑/↓**.

Tuning automatically

Select the band, then press **I<<</>>>** to search for the station.

Scanning stops when the unit receives a station. Repeat this procedure until the desired station is received.

Tip

If you know the frequency of the station you want to listen to, press and hold **I<<</>>>** to locate the approximate frequency, then press **I<<</>>>** repeatedly to fine adjust to the desired frequency (manual tuning).

With the main unit

To search for the station, press **(SEEK)** +/-.

Receiving a station through a list

— list-up

You can list up the frequency.

- 1 Select the band, then press **(LIST)**.
The frequency appears.
- 2 Press **↑/↓** repeatedly until the desired station appears.

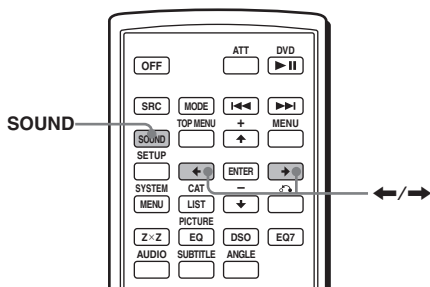


- 3 Press **(ENTER)** to receive the station.

Other functions

Adjusting the sound characteristics

You can adjust the bass, treble, balance, fader and subwoofer volume.



- 1 Select a source, then press **(SOUND)** repeatedly to select the desired item.

The item changes as follows:

BAS (bass) → **TRE** (treble) →
BAL (left-right) → **FAD** (front-rear) →
SUB (subwoofer volume)*

* "∞" is displayed at the lowest setting, and can be adjusted up to 20 steps.

- 2 Press **(←/→)** repeatedly to adjust the selected item.

After 3 seconds, the setting is complete and the display returns to normal play/reception mode.

Note

Adjust within 3 seconds of selecting the item.

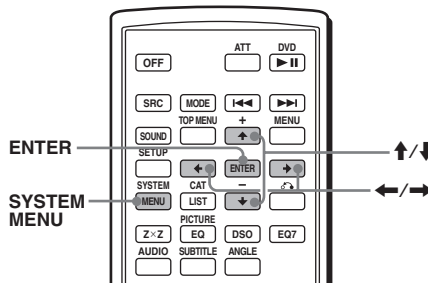
With the main unit

In step 2, to adjust the selected item, press the volume +/- button.

Adjusting the equalizer curve

— EQ7 Tune

You can adjust and store the equalizer settings for different tone ranges.



- 1 Select a source, then press **(SYSTEM MENU)**.
- 2 Press **(↑/↓)** repeatedly until "EQ7 TUNE" appears, then press **(ENTER)**.

- 3 Press **(←/→)** repeatedly to select the desired equalizer type, then press **(ENTER)**.

- 4 Press **(←/→)** repeatedly to select the desired frequency.

The frequency changes as follows:

62Hz ↔ **157Hz** ↔ **396Hz** ↔ **1kHz** ↔
2.5kHz ↔ **6.3kHz** ↔ **16kHz**

- 5 Press **(↑/↓)** repeatedly to adjust the desired volume level.

The volume level is adjustable in 1 dB steps, from -10 dB to +10 dB.



Repeat steps 4 and 5 to adjust the equalizer curve.

To restore the factory-set equalizer curve, press and hold **(ENTER)**.

- 6 Press **(ENTER)**.

The setting is complete and the display returns to normal play/reception mode.

Labeling a station/disc

When you receive a station, or play a disc in a CD changer with the CUSTOM FILE function, you can label each station/disc with a custom name up to 8 characters (Station Memo/Disc Memo).

If you label a station/disc, the name appears on the list (page 33 or 37).

- 1 While receiving a station or playing a disc that you want to label, press **(SYSTEM MENU)**.
- 2 Press **↑/↓** repeatedly until "NAMEEDIT" appears, then press **(ENTER)**.



- 3 Press **↑/↓** repeatedly until the desired character appears.

The character changes as follows:

A ↔ B ↔ C ... ↔ 0 ↔ 1 ↔ 2 ... ↔ +
 ↔ - ↔ * ... ↔ _ (blank space) ↔ A

To move the digital indication, press the **←/→**.

Repeat this operation until the entire name is entered.

- 4 Press **(ENTER)**.

The labeling is complete and the display returns to normal reception/play mode.

To display the name, press **(DSPL)** during reception/playback.

Tips

- To correct or erase a character, overwrite or enter " _ ".
- The Disc Memo always takes priority over any prerecorded title.
- You can label a disc on the unit if a changer with the CUSTOM FILE function is connected.
- "REP-TRACK" and all shuffle play are suspended until the labeling is complete.

Deleting the custom name

- 1 Select the unit that has stored the custom name you want to delete, then press **(SYSTEM MENU)**.
- 2 Press **↑/↓** repeatedly until "NAME DEL" appears, then press **(ENTER)**. The stored name will appear.
- 3 Press **↑/↓** repeatedly to select the name you want to delete.

- 4 Press and hold **(ENTER)**.

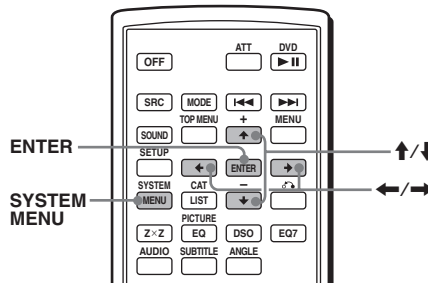
The name is deleted. Repeat step 3 and 4 if you want to delete other names.

- 5 Press **(SYSTEM MENU)** twice.

The unit returns to normal reception/play mode.

Adjusting unit menu items

— SYSTEM MENU



- 1 Press **(SYSTEM MENU)**.

- 2 Press **↑/↓** repeatedly until the desired item appears.

- 3 Press **←/→** to select the desired setting (example: "ON" or "OFF").

- 4 Press **(ENTER)**.

The setting is complete and the display returns to normal play/reception mode.

Note

Displayed items will differ, depending on the source and setting.

Tip

You can easily switch among categories by pressing and holding **↑/↓**.

continue to next page →

The following items can be set (follow the page reference for details):
 “●” indicates the default settings.

SET (Setup)

CLOCK-ADJ (Clock Adjust) (page 8)

BEEP

To set “ON” (●) or “OFF.”

RM (Rotary Commander)

To change the operative direction of the rotary commander controls.

- “NORM” (●): to use the rotary commander in the factory-set position.
- “REV”: when you mount the rotary commander on the right side of the steering column.

AUX-A*¹ (AUX Audio)

To turn the AUX source display “ON” (●) or “OFF” (page 38).

WL*¹ (Wireless)

- “CH1” (●), “CH2,” “CH3,” “CH4”: to avoid interference with the wireless transmission.
- “OFF”: to turn off the wireless transmission.

DSPL (Display)

CLOCK (Clock Information)

To display the clock and the display items at the same time.

- “ON”: to display at the same time.
- “OFF” (●): to not display at the same time.

DIM (Dimmer)

To change the brightness of the display.

- “AT” (●): to dim the display automatically when you turn the lights on.*²
- “ON”: to dim the display.
- “OFF”: to deactivate the dimmer.

CONTRAST

To adjust the contrast of the main unit display. The contrast level is adjustable in 7 steps.

M.DSPL*³ (Motion Display)

To select the Motion Display mode.

- “SA” (●): to show moving patterns and spectrum analyzer.
- “ON”: to show moving patterns.
- “OFF”: to deactivate the Motion Display.

DEMO*¹ (Demonstration)

To set “ON” (●) or “OFF” (page 8).

A.SCRL (Auto Scroll)

To scroll long displayed items automatically when the disc/album is changed.

- “ON”: to scroll.
- “OFF” (●): to not scroll.

P/M (Play Mode)

LOCAL (Local seek mode)

- “ON”: to only tune into stations with stronger signals.
- “OFF” (●): to tune normal reception.

MONO (Monaural mode)

To improve poor FM reception, select monaural reception mode.

- “ON”: to hear stereo broadcasts in monaural.
- “OFF” (●): to hear stereo broadcast in stereo.

IF

- “AUTO” (●): to narrow automatically the reception frequency to eliminate noise.
- “WIDE”*⁴: to always hear FM stereo broadcasts in stereo and with full the frequency signal reception.

SND (Sound)

EQ7 TUNE (page 34)

HPF (High Pass Filter)

To select the front/rear speaker cut-off frequency: “OFF” (●), “78HZ” or “125HZ.”

LPF (Low Pass Filter)

To select the subwoofer cut-off frequency: “OFF” (●), “125HZ” or “78HZ.”

LOUD (Loudness)

To enhance bass and treble at lower volume.

- “ON”: to reinforce bass and treble.
- “OFF” (●): to not reinforce bass and treble.

DVD LVL*⁵ (DVD level) (page 23)

To set the audio output level according to the recorded DVD audio format.

AUX LVL*⁶ (Auxiliary level)

To adjust the volume level for each connected auxiliary equipment. This setting negates the need to adjust the volume level between sources.

EDIT

NAMEEDIT (page 35)

NAME DEL (page 35)

BTM (page 33)

*¹ When the unit is turned off.

*² When the illumination control lead is connected.

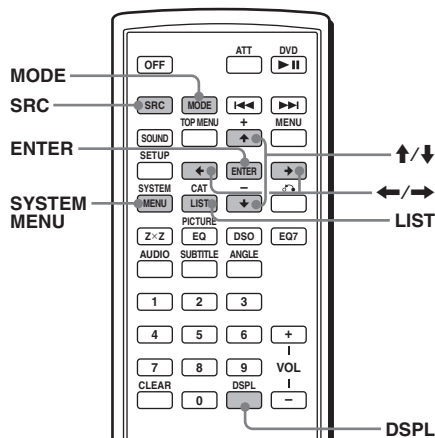
*³ When the unit is turned on.

*⁴ In such cases, some FM stereo broadcasts may become monaural while in the stereo reception mode.

*⁵ When a disc is played back.

*⁶ When auxiliary equipment is connected and played.

Using optional equipment



CD/MD changer

Selecting the changer

- 1 Press **(SRC)** (SOURCE) repeatedly until "CDC1" or "MDC1" appears.
- 2 Press **(MODE)** repeatedly until the desired changer appears.

Unit number of CD/MD changer



Playback starts.

Skipping albums and discs

During playback, press **↑/↓**.

To skip	Press ↑/↓
album	and release (hold for a moment).
album continuously	within 2 seconds of first releasing.
discs	repeatedly.
discs continuously	then, press again within 2 seconds and hold.

With the main unit

To skip discs, press **(3)** (ALBM -) or **(4)** (ALBM +).
To skip albums, press and hold **(3)** (ALBM -) or **(4)** (ALBM +).

Repeat and shuffle play

(With the main unit)

During playback, press **(1)** (REP) or **(2)** (SHUF) repeatedly until the desired setting appears.

Select	To play
REP-DISC*	disc repeatedly.
SHUF-CHGR*	tracks in the changer in random order.

* When one or more CD/MD changers are connected.

To return to normal play mode, select "REP-OFF" or "SHUF-OFF."

Locating a disc by name — list-up

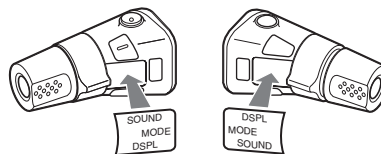
You can select a disc from the list when connecting a CD changer with the CUSTOM FILE function or an MD changer. If you assign a name to a disc, the name appears on the list.

- 1 During playback, press **(LIST)**.
The disc number and disc name will appear.
- 2 Press **↑/↓** repeatedly until the desired disc appears.
- 3 Press **(ENTER)** to play the disc.

Rotary commander RM-X4S

Attaching the label

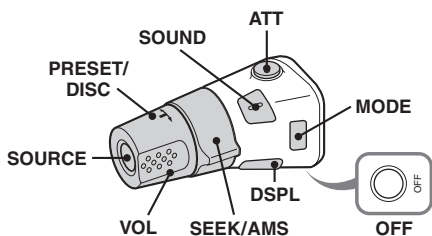
Attach the indication label depending on how you mount the rotary commander.



continue to next page →

Location of controls

The corresponding buttons on the rotary commander control the same functions as those on the main unit or the card remote commander.



The following controls on the rotary commander require a different operation from the main unit or the card remote commander.

- **PRESET/DISC control**

To select preset stations; control CD, the same as **(3)/(4)** (ALBM +/-) on the main unit or **↑/↓** on the card remote commander (push in and rotate).

- **VOL (volume) control**

The same as the volume +/- buttons (rotate).

- **SEEK/AMS control**

The same as **(SEEK) +/-** on the main unit or **◀▶** on the card remote commander (rotate, or rotate and hold).

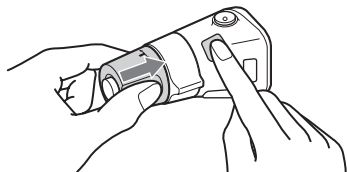
Changing the operative direction

The operative direction of the controls is factory-set as shown below.



If you need to mount the rotary commander on the right hand side of the steering column, you can reverse the operative direction.

While pushing the VOL control, press and hold **(SOUND).**



Tip

You can also change the operative direction of these controls in the menu (page 36).

Auxiliary audio equipment

You can connect optional Sony portable devices to the BUS AUDIO IN/AUX IN terminal on the unit. If the changer or other device is not connected to the terminal, the unit allows you to listen to the portable device on your car speakers.

Note

When connecting a portable device, be sure BUS CONTROL IN is not connected. If a device is connected to BUS CONTROL IN, "AUX" cannot be selected with **(SRC)** (SOURCE).

Tip

When connecting both a portable device and a changer, use the optional AUX-IN selector.

Selecting auxiliary equipment

Press **(SRC) (SOURCE) repeatedly until "AUX" appears.**

Operate by the portable device itself.

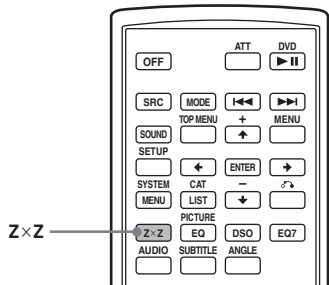
To adjust the volume level of auxiliary equipment, see "AUX LVL" on page 36.

Switching the front/rear output

— Zone x Zone

You can set to have DVD audio/video output to the rear monitor, and output another source to the front.

This function is convenient when you want to enjoy radio, music playback, etc. in the front, and DVD playback in the rear.



1 Press **(ZxZ)**.

2 Press **(SOURCE)** on the main unit to switch the source of the front.

Operate the front with the main unit, and the rear (DVD) with the card remote commander.

To return to normal status

Press **(ZxZ)**.

Notes

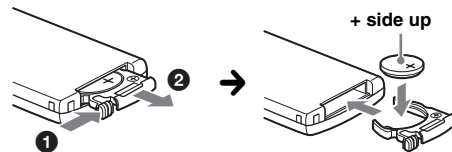
- While Zone x Zone is activated, the following buttons on the card remote commander become inactive: **(ATT)**, **(SRC)** (SOURCE), **(MODE)**, **(VOL)** +/-, **(SYSTEM MENU)**, **(LIST)**, **(SOUND)**, **(DSO)**, **(EQ7)**.
- Zone x Zone is not canceled even if the disc is ejected, and it will be activated when a disc is inserted again.

Additional Information

Maintenance

Replacing the lithium battery of the card remote commander

Under normal conditions, the battery will last approximately 1 year. (The service life may be shorter, depending on the conditions of use.) When the battery becomes weak, the range of the card remote commander becomes shorter. Replace the battery with a new CR2025 lithium battery. Use of any other battery may present a risk of fire or explosion.



Notes on the lithium battery

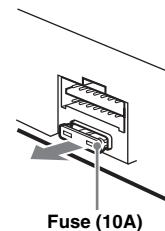
- Keep the lithium battery out of the reach of children. Should the battery be swallowed, immediately consult a doctor.
- Wipe the battery with a dry cloth to assure a good contact.
- Be sure to observe the correct polarity when installing the battery.
- Do not hold the battery with metallic tweezers, otherwise a short-circuit may occur.

WARNING

Battery may explode if mistreated. Do not recharge, disassemble, or dispose of in fire.

Fuse replacement

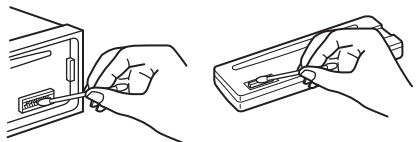
When replacing the fuse, be sure to use one matching the amperage rating stated on the original fuse. If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In such a case, consult your nearest Sony dealer.



continue to next page →

Cleaning the connectors

The unit may not function properly if the connectors between the unit and the front panel are not clean. In order to prevent this, detach the front panel (page 8) and clean the connectors with a cotton swab dipped in alcohol. Do not apply too much force. Otherwise, the connectors may be damaged.



Main unit

Back of the front panel

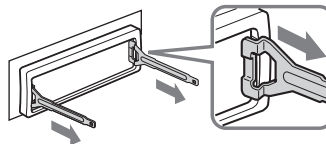
Notes

- For safety, turn off the ignition before cleaning the connectors, and remove the key from the ignition switch.
- Never touch the connectors directly with your fingers or with any metal device.

Removing the unit

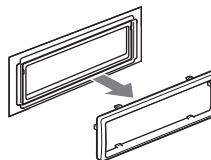
1 Remove the protection collar.

- 1 Detach the front panel (page 8).
- 2 Engage the release keys together with the protection collar.



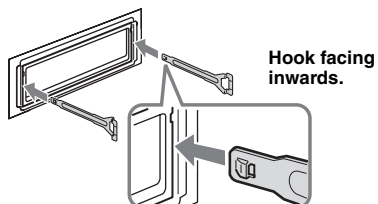
Orient the release keys as shown.

- 3 Pull out the release keys to remove the protection collar.

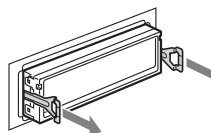


2 Remove the unit.

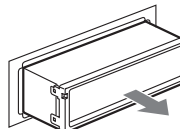
- 1 Insert both release keys simultaneously until they click.



- 2 Pull the release keys to unseat the unit.



- 3 Slide the unit out of the mounting.



Notes on discs

- To keep a disc clean, do not touch its surface. Handle the disc by its edge.
- Keep your discs in their cases or disc magazines when not in use.
- Do not subject discs to heat/high temperature. Avoid leaving them in a parked car or on a dashboard/rear tray.
- Do not attach labels, or use discs with sticky ink/residue. Such discs may stop spinning when used, causing a malfunction, or may ruin the disc.



- Do not use any discs with labels or stickers attached. The following malfunctions may result from using such discs:
 - Inability to eject a disc (due to a label or sticker peeling off and jamming the eject mechanism).
 - Inability to read audio data correctly (e.g., playback skipping, or no playback) due to heat shrinking of a sticker or label causing a disc to warp.
- 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.
- You cannot play 8 cm (3 1/4 in) discs.
- Before playing, clean the discs with a commercially available cleaning cloth. Wipe each disc from the centre out. Do not use solvents such as benzene, thinner, commercially available cleaners, or antistatic spray intended for analog discs.



Note on DualDiscs

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

About MP3 files

MP3, which stands for MPEG-1 Audio Layer-3, is a music file compression format standard. It compresses audio CD data to approximately 1/10 of its original size.

- The unit is compatible with the following standards.
 - For CD
 - ISO 9660 level 1/level 2 format, Joliet/Romeo in the expansion format
 - Multi Session
 - For DVD
 - UDF Bridge format (combined UDF and ISO 9660)
 - For CD/DVD
 - ID3 tag version 1.0, 1.1, 2.2, 2.3 and 2.4
- The maximum number of:
 - folders (albums): 256 (including root and empty folders).
 - MP3 files (tracks) and folders contained in a disc: 1,000 (if a folder/file names contain many characters, this number may become less than 1,000).
 - displayable characters for a folder/file name is 128; ID3 tag is 126 characters.

Notes

- Be sure to finalize the disc before using on the unit.
- When naming an MP3 file, be sure to add the file expansion “.mp3” to the file name.
- If you play a high-bit-rate MP3, such as 320 kbps, sound may be intermittent.
- During playback of a VBR (variable bit rate) MP3 file or fast-forward/reverse, elapsed playing time may not display accurately.
- When the disc is recorded in Multi Session, only the first track of the first session format is recognized and played (any other format is skipped). The priority of the format is CD-DA and MP3.
 - When the first track is a CD-DA, only CD-DA of the first session is played.
 - When the first track is not a CD-DA or MP3 session is played. If the disc has no data in any of these formats, “NO MUSIC” is displayed.
- The unit cannot play back Multi Border recorded MP3.
- MP3 files not recorded at 44.1 kHz or 48 kHz sampling rate and 64 to 320 kbps bit rate cannot be played.

Note on wireless transmission

The unit transmits audio/video at FM 2.4 GHz. Simultaneous use with other 2.4 GHz equipment may cause image interference or audio noise. This is not a malfunction, but a result of equipment sharing the same operating frequency.

Specifications

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION
23.2 watts per channel minimum continuous average power into 4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more than 5% total harmonic distortion.



CEA2006 Standard
Power Output: 17 Watts RMS × 4 at 4 Ohms < 1% THD+N
SN Ratio: 82 dBA
(reference: 1 Watt into 4 Ohms)

System

Laser Semiconductor laser
Signal format system NTSC

DVD/CD Player section*

Signal-to-noise ratio 120 dB
Frequency response 10 – 20,000 Hz
Wow and flutter Below measurable limit
Harmonic distortion (DVD) 0.01%
Wow and flutter Less than detected value (±0.001 % W PEAK)

* Measured from the AUDIO OUT jacks.
When you play PCM sound tracks with a 96 kHz sampling frequency, the output signals from the DIGITAL OUT jack are converted to 96 kHz sampling frequency.

Tuner section

FM

Tuning range 87.5 – 107.9 MHz
Antenna terminal External antenna connector
Intermediate frequency 10.7 MHz/450 kHz
Usable sensitivity 9 dBf
Selectivity 75 dB at 400 kHz
Signal-to-noise ratio 67 dB (stereo), 69 dB (mono)
Harmonic distortion at 1 kHz 0.5 % (stereo), 0.3 % (mono)
Separation 35 dB at 1 kHz
Frequency response 30 – 15,000 Hz

AM

Tuning range 530 – 1,710 kHz
Antenna terminal External antenna connector
Intermediate frequency 10.7 MHz/450 kHz
Sensitivity 30 μV

Power amplifier section

Outputs Speaker outputs (sure seal connectors)
Speaker impedance 4 – 8 ohms
Maximum power output 52 W × 4 (at 4 ohms)

Wireless AV section

Transmission frequencies 2,414, 2,432, 2,450, 2,468 MHz
Modulation method FM modulation
RF output power –1.2 dBm

General

Outputs
Front audio/video output terminals
Rear audio output terminal
Subwoofer output terminal (mono)
Optical digital output terminal
Power antenna relay control terminal
Power amplifier control terminal
Inputs
Telephone ATT control terminal
Illumination control terminal
BUS control input terminal
BUS audio input/AUX IN terminal
Parking break control terminal
Remote controller input terminal
Antenna input terminal
Bass: ±8 dB at 100 Hz
Treble: ±8 dB at 10 kHz
Loudness +8 dB at 100 Hz
+2 dB at 10 kHz
Power requirements 12 V DC car battery (negative ground)
Dimensions Approx. 178 × 50 × 182 mm (7 1/8 × 2 × 1/4 in) (w/h/d)
Mounting dimensions Approx. 182 × 53 × 161 mm (7 1/4 × 2 1/8 × 6 3/8 in) (w/h/d)
Mass Approx. 1.3 kg (2 lb 14 oz)
Supplied accessories Card remote commander RM-X704
Parts for installation and connections (1 set)
Front panel case (1)

Optional accessories

Overhead Monitor
XVM-R70
Headrest Monitor
XVM-H65
Mobile Monitor
XVM-F65WL
CD changer (10 discs)
CDX-757MX
CD changer (6 discs)
CDX-T69
MD changer (6 discs)
MDX-66XLP
Source selector
XA-C30
AUX-IN selector
XA-300
Optical audio cable
RC-104

US and foreign patents licensed from Dolby Laboratories.

MPEG Layer-3 audio coding technology and patents licensed from Fraunhofer IIS and Thomson.

Note

This unit cannot be connected to a digital preamplifier or an equalizer which is Sony BUS system compatible.

Design and specifications are subject to change without notice.



- Lead-free solder is used for soldering certain parts. (more than 80 %)
- Halogenated flame retardants are not used in the certain printed wiring boards.
- Halogenated flame retardants are not used in cabinets.
- VOC (Volatile Organic Compound)-free vegetable oil based ink is used for printing the carton.
- Packaging cushions do not use polystyrene foam.

Troubleshooting

The following checklist will help you remedy problems you may encounter with your unit. Before going through the checklist below, check the connection and operating procedures.

General

No power is being supplied to the unit.

- The power connection has not been made correctly.
→ Check the connection. If everything is in order, check the fuse.
- The car does not have an ACC position.
→ Insert a disc to turn on the unit.
- If the unit is turned off and the display disappears, it cannot be operated with the remote commander.
→ Turn on the unit.

The power antenna does not extend.

The power antenna does not have a relay box.

Stored stations and correct time are erased.

The fuse has blown.

Makes noise when the position of the ignition key is switched.

The leads are not matched correctly with the car's accessory power connector.

The display disappears from/does not appear in the display window.

- The dimmer is set to "DIM-ON" (page 36).
- The display disappears if you press and hold **OFF**.
→ Press and hold **OFF** again until the display appears.
- The connectors are dirty (page 40).

DSO does not function.

Depending on the type of car interior or type of music, DSO may not have a desirable effect.

continue to next page →

Image interference or audio noise occurs during wireless transmission.

- The unit transmits audio/video at FM 2.4 GHz. Simultaneous use with other 2.4 GHz equipment may cause image interference or audio noise.
 - Change the channel (page 36). If there is no improvement, stop using the other equipment. Wireless transmission of the unit can also be turned off if necessary (page 36).
- The transmitter is not positioned correctly.
 - Position the optional monitor XVM-F65WL closer to the unit.
 - Position the transmitter higher than the unit to prevent obstruction by the seat or passenger.
 - Place the transmitter in a stable place, otherwise its position and angle may change.
- Installing the rear monitor in front of the second row is recommended.
- Cancel the Zone × Zone function and use the car speakers if audio noise is strong.
- Interference or audio noise may temporarily occur during driving as a result of obstacles outside the car.

Picture

There is no picture/picture noise appears.

- A connection has not been made correctly.
- Check the connection to the connected equipment, and set the input selector of the equipment to the source corresponding to this unit.
- The disc is dirty, flawed, or deteriorated.
- The unit is installed at an angle of more than 45°.
- The unit is not installed in a sturdy part of the car.
- The monitor is connected to the FRONT AUDIO/VIDEO OUT, and the parking cord (Light green) is not connected to the parking brake switch cord, or the parking brake is not applied.

Picture does not fit in the screen.

The aspect ratio is fixed on the DVD.

Sound

There is no sound/sound skips/sound cracks.

- A connection has not been made correctly.
- Check the connection to the connected equipment, and set the input selector of the equipment to the source corresponding to this unit.
- The disc is dirty, flawed, or deteriorated.
- The unit is installed at an angle of more than 45°.
- The unit is not installed in a sturdy part of the car.
- The MP3 file sampling rate is not 44.1 kHz or 48 kHz.
- The MP3 file bit rate is not 64 to 320 kbps.
- The unit is in pause playback mode, or scanning.
- The unit is in fast-forward mode, or in fast-reverse mode.
- The settings for the outputs are not made correctly.
- Adjust DVD output level (page 23).
- The volume is too low.
- The ATT function is activated, or the Telephone ATT function (when the interface cable of a car telephone is connected to the ATT lead) is activated.
- The position of the fader control (FAD) is not set for a 2-speaker system.
- The CD changer is incompatible with the disc format (MP3).
 - Play back with a Sony MP3 compatible CD changer, or this unit.

Sound is noisy.

Keep cords and cables away from each other.

Operation

The remote does not function.

- There are obstacles between the remote and the unit, or the remote receptor.
- The distance between the card remote commander and the unit is too far.
- The card remote commander is not pointed at the remote sensor, or the receptor on the unit properly.
- The batteries in the card remote commander are weak.

The operation buttons do not function.

The disc will not eject.

Press the RESET button (page 8).

No beep sound.

The beep sound is canceled (page 36).

The contents of the memory have been erased.

- The RESET button has been pressed.
→ Store again into the memory.
- The power connecting lead or battery has been disconnected.
- The power connecting lead is not connected properly.

The display items do not scroll.

- For discs with very many characters, those may not scroll.
- "A.SCRL" is set to off.
→ Set "A.SCRL-ON" (page 36) or press (SCRL) on the main unit.

"MS" or "MD" does not appear on the source display when both the optional MGS-X1 and MD changer are connected.

This unit recognizes MGS-X1 as an MD unit.
→ Press (SRC) (SOURCE) until "MS" or "MD" appears, then press (MODE) repeatedly.

The disc cannot be loaded.

- Another disc is already loaded.
- The ignition key switch of the car is set to the OFF position.

The unit does not start playing.

- The disc is inserted upside down.
→ Insert the disc with the playback surface down.
- The disc inserted is not applicable.
- The DVD inserted is not applicable due to the region code.
- Moisture has condensed inside the unit.
- The DVD-R, DVD-RW, DVD+R, DVD+RW, CD-R, or CD-RW inserted is not finalized.

You cannot select a source.

Zone × Zone is activated.

→ Press (ZxZ) to deactivate Zone × Zone.

MP3 files cannot be played.

- Recording was not performed according to the ISO 9660 level 1 or level 2 format, or the Joliet or Romeo in the expansion format.
- The MP3 file does not have the extension ".mp3."
- Files are not stored in MP3 format.
- The unit cannot play files stored in MP3PRO format.
- The unit cannot play files stored in a format other than the MPEG1 Audio Layer 3.
- Both MP3 and JPEG files are stored on the disc.
→ Set "MP3/JPEG" in "CUSTOM SETUP" to "MP3" (page 31).

MP3 files take longer to play back than others.

The following discs take a longer time to start playback.

- a disc recorded with a complicated tree structure.
- a disc recorded in Multi Session.
- a disc to which data can be added.

The JPEG files cannot be played.

- JPEG files do not have the extension ".jpg."
- Files are not stored in JPEG format.
- Both MP3 and JPEG files are stored on the disc.
→ Set "MP3/JPEG" in "CUSTOM SETUP" to "JPEG" (page 31).

The title of the MP3 audio album or track is not correctly displayed.

The player can only display numbers and alphabet. Other characters are displayed as "-."

The disc does not start playing from the beginning.

Resume play has taken effect (page 17).

Playback stops automatically.

While playing discs with an auto pause signal, the unit stops playback at the auto pause signal.

You cannot perform certain functions.

Depending on the disc, you may not be able to perform operations such as Stop, Search, Repeat play, or Shuffle play. For details, see the operating manual supplied with the disc.

The language for the sound track cannot be changed.

- Use the DVD menu instead of the direct selection button on the card remote commander (page 19).
- Multilingual tracks are not recorded on the DVD being played.
- The DVD prohibits the changing of the language for the sound track.

continue to next page → 45

The subtitle language cannot be changed or turned off.

- Use the DVD menu instead of the direct selection button on the card remote commander (page 19).
- Multilingual subtitles are not recorded on the DVD being played.
- The DVD prohibits the changing of the subtitles.

The angles cannot be changed.

- Use the DVD menu instead of the direct selection button on the card remote commander (page 19).
- Multi-angles are not recorded on the DVD being played.
- The DVD prohibits changing of the angles.

Radio reception

The stations cannot be received.

The sound is hampered by noises.

- Connect a power antenna control lead (blue) or accessory power supply lead (red) to the power supply lead of a car's antenna booster (only when your car has built-in FM/AM antenna in the rear/side glass).
- Check the connection of the car antenna.
- The auto antenna will not go up.
 - Check the connection of the power antenna control lead.
- Check the frequency.
- When the DSO mode is on, the sound is sometimes hampered by noises.
 - Set the DSO mode to "OFF" (page 12).

Preset tuning is not possible.

- Store the correct frequency in the memory.
- The broadcast signal is too weak.

Automatic tuning is not possible.

- The local seek mode is set to "ON."
 - Set "LOCAL" to "OFF" (page 36).
- The broadcast signal is too weak.
 - Perform manual tuning.

During FM reception, the "ST" indication flashes.

- Tune in the frequency accurately.
- The broadcast signal is too weak.
 - Set "MONO" to "ON" (page 36).

An FM program broadcast in stereo is heard in monaural.

The unit is in monaural reception mode.
 → Set "MONO" to "OFF" (page 36).

Interference occurs during FM reception.

IF mode is set to "WIDE."
 → Set to "IF AUTO" (page 36).

Error displays/Messages

The following indications appear when a malfunction occurs in the unit.

On the main unit

BLANK*1

Tracks have not been recorded on the MD.*2
 → Play an MD with recorded tracks.

ERROR*1

- The disc is dirty or inserted upside down.*2
 - Clean or insert the disc correctly.
- The disc cannot play because of some problem.
 - Insert another disc.
- The disc is not compatible with this unit.
 - Insert a compatible disc.

FAILURE (Illuminates until any button is pressed.)

The connection of speakers/amplifiers is incorrect.

→ See the installation guide manual of this model to check the connection.

FAILURE (Illuminates for about 1 second.)

When the XM tuner is connected, storing an XM radio channel into a preset failed.

→ Be sure to receive the channel that you want to store, then try it again.

LOAD

The changer is loading the disc.
 → Wait until loading is complete.

L.SEEK +/-

The local seek mode is on during automatic tuning.

NO DATA

All custom names have been deleted, or none are stored.

NO DISC

The disc is not inserted in the CD/MD changer.

→ Insert discs in the changer.

NO ID3

ID3 tag information is not written in the MP3 file.

NO MAG

The disc magazine is not inserted in the CD changer.

→ Insert the magazine in the changer.

NO MUSIC

The disc is not a music file.

→ Insert a music CD in this unit or MP3 playable changer.

NO NAME

A track/album/disc name is not written in the track.

NOT READ

The disc information has not been read by the unit.

→ Load the disc, then select it on the list.

NOTREADY

The lid of the MD changer is open or the MDs are not inserted properly.

→ Close the lid or insert the MDs properly.

OFFSET

There may be an internal malfunction.

→ Check the connection. If the error indication remains on in the display, consult your nearest Sony dealer.

READ

The unit is reading all track and album information on the disc.

→ Wait until reading is complete and playback starts automatically. Depending on the disc structure, it may take more than a minute.

RESET

The unit and CD/MD changer cannot be operated because of some problem.

→ Press the RESET button (page 8).

“LLLL” or “RRRR”

During fast-forward or reverse, you have reached the beginning or the end of the disc and you cannot go any further.

“_”

The character cannot be displayed with the unit.

*1 If an error occurs during playback of a CD or MD, the disc number of the CD or MD does not appear in the display.

*2 The disc number of the disc causing the error appears in the display.

On the monitor**Cannot play this disc.**

- The disc is not compatible with this unit.
- The DVD is prohibited for playback due to the different region code.

No MP3 or JPEG file

The disc contains no MP3/JPEG file.

Read error

- The unit cannot read the data due to some problem.
- The data is damaged or corrupted.

Please Press RESET.

The unit cannot operate due to some problem.

→ Press the RESET button.

If these solutions do not help improve the situation, consult your nearest Sony dealer. If you take the unit to be repaired because of disc playback trouble, bring the disc that was used at the time the problem began.

Glossary**Chapter**

Sections of a picture or a music feature that are smaller than titles. A title is composed of several chapters. Depending on the disc, no chapters may be recorded.

Dolby Digital

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

DTS

Digital audio compression technology that Digital Theater Systems, Inc. developed. This technology conforms to 5.1-channel surround sound. The rear channel is stereo and there is a discrete subwoofer channel in this format. DTS provides the same 5.1 discrete channels of high quality digital audio.

Good channel separation is realized because all of the channel data is recorded discretely and little deterioration is realized because all channel data processing is digital.

continue to next page →

DVD VIDEO

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

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

The picture data uses the MPEG 2 format, one of the worldwide standards of digital compression technology. The picture data is compressed to about 1/40 (average) of its original size. The DVD also uses a variable rate coding technology that changes the data to be allocated according to the status of the picture. Audio information is recorded in a multi-channel format, such as Dolby Digital, allowing you to enjoy a more real audio presence.

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

DVD-RW

A DVD-RW is a recordable and rewritable disc with the same size as the DVD VIDEO. The DVD-RW can be recorded in two different modes: VR mode and Video mode. VR (Video Recording) mode enables various programing and editing functions, some of which are limited in the case of Video mode. Video mode complies with DVD VIDEO format and can be played on other DVD players while a DVD-RW recorded in VR mode can only be played on DVD-RW compliant players. The "DVD-RW" appearing in this manual, and the on-screen displays refer to DVD-RWs in VR mode.

DVD+RW

A DVD+RW is a recordable and rewritable disc. DVD+RWs use a recording format that is comparable to the DVD VIDEO format.

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 theaters. Video based DVDs, such as television dramas or sit-coms, displays images at 30 frames (or 60 fields) per second.

JPEG (Joint Photographic Expert Group)

Under the auspices of the International Organization for Standardization (ISO), JPEG is defined as a universal standard format for digital compression and decompression of still images for use in computer related systems. Usually, the compression rate is variable before visible degradation occurs. Still images are compressed about 1/10 to 1/100 original size.

Title

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

Track

Sections of a picture or a music feature on a CD or VIDEO CD (the length of a song).

Language code list

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

Code	Language	Code	Language	Code	Language	Code	Language
1027	Afar	1183	Irish	1347	Maori	1507	Samoan
1028	Abkhazian	1186	Scots Gaelic	1349	Macedonian	1508	Shona
1032	Afrikaans	1194	Galician	1350	Malayalam	1509	Somali
1039	Amharic	1196	Guarani	1352	Mongolian	1511	Albanian
1044	Arabic	1203	Gujarati	1353	Moldavian	1512	Serbian
1045	Assamese	1209	Hausa	1356	Marathi	1513	Siswati
1051	Aymara	1217	Hindi	1357	Malay	1514	Sesotho
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