

Personal Audio System

Operating Instructions



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ZS-PE60

WARNING

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

To reduce the risk of fire, do not cover the ventilation opening of the appliance with newspapers, tablecloths, curtains, etc. Do not expose the appliance to naked flame sources (for example, lighted candles).

To reduce the risk of fire or electric shock, do not expose this apparatus to dripping or splashing, and do not place objects filled with liquids, such as vases, on the apparatus.

As the main plug is used to disconnect the unit from the mains, connect the unit to an easily accessible AC outlet. Should you notice an abnormality in the unit, disconnect the main plug from the AC outlet immediately.

The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.

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

Excessive sound pressure from earphones and headphones can cause hearing loss.

Do not expose the batteries (battery pack or batteries installed) to excessive heat such as sunshine, fire or the like for a long time.

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

The nameplate is located on the bottom exterior.

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

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

As the laser beam used in the CD player section is harmful to the eyes, do not attempt to disassemble the casing. Refer servicing to qualified personnel only.

CAUTION

RISK OF ELECTRIC SHOCK. DO NOT OPEN.

For customers in Europe

Notice for customers: the following information is only applicable to equipment sold in countries applying EU directives

This product has been manufactured by or on behalf of Sony Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan. Inquiries related to product compliance based on European Union legislation shall be addressed to the authorized representative, Sony Belgium, bijkantoor van Sony Europe Limited, Da Vincilaan 7-D1, 1935 Zaventem, Belgium. For any service or guarantee matters, please refer to the addresses provided in the separate service or guarantee documents.

Disposal of waste batteries and electrical and electronic equipment (applicable in the European Union and other European countries with separate collection systems)

This symbol on the product, the battery or on the packaging indicates that the product and the battery shall not be treated as household waste. On certain batteries this symbol might be used in combination with a chemical symbol.

The chemical symbols for mercury (Hg) or lead (Pb) are added if the battery contains more than 0.0005% mercury or 0.004% lead. By ensuring these products and batteries are disposed of correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling. The recycling of the materials will help to conserve natural resources.

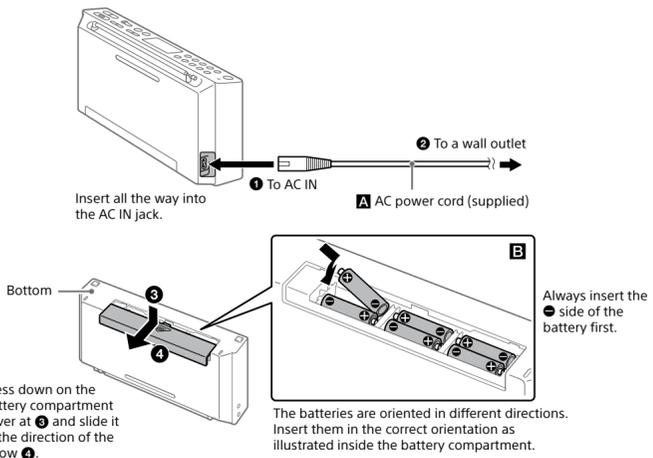
In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only. To ensure that the battery and the electrical and electronic equipment will be treated properly, hand over these products at end-of-life to the applicable collection point for the recycling of electrical and electronic equipment. For all other batteries, please view the section on how to remove the battery from the product safely. Hand the battery over to the applicable collection point for the recycling of waste batteries. For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product or battery.

This product is designed to be used for the following purposes:

- Playing back music sources on discs or USB devices
- Listening to radio stations
- Listening to sound from a connected optional component

Power Sources

Connect the AC power cord **A**, or insert six LR6 (size AA) batteries (not supplied) into the battery compartment **B**.



Notes

- When using the unit on batteries and the battery power drops to a certain level, the OPR/BATT **2** indicator dims or power of the unit may go off during playback. If this happens, replace all the batteries with new ones. Once the OPR/BATT **2** indicator becomes dim, you can continue to use the radio and AUDIO IN functions for some time, but you can no longer use the CD or USB functions. Before you replace the batteries, be sure to remove any CDs, disconnect any USB devices or optional components from the unit, and store the FM antenna **19** in its original position if extended.
- To use the unit on batteries, disconnect the AC power cord **A** from the wall outlet and the unit (in the order of **2** → **1**).
- Settings stored in the unit's memory are saved even when the AC power cord is disconnected or the batteries are removed.
- In standby mode with the AC power cord connected, "STANDBY" appears on the display.
- Do not mix an old battery with a new one or mix different type of batteries.

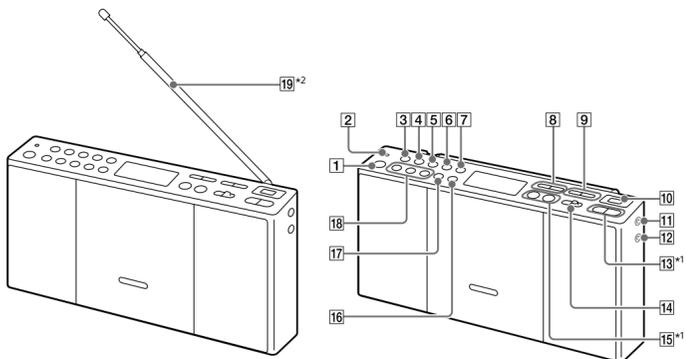
To use the power-management function (European models only)

This unit is equipped with an automatic standby function. With this function, the unit enters standby mode automatically after about 15 minutes if there is no operation or audio signal output. To turn the standby function on or off, press **VOLUME** - **13** while holding down **TUNE/** **10** when the unit is in standby mode with the AC power cord connected. The automatic standby function setting cannot be changed when the unit is turned on. Each time you press the buttons, "STANDBY" flashes for 2 seconds and "ON" or "OFF" appears on the display.

Notes

- The displayed content starts flashing on the display about 2 minutes before entering standby mode.
- The automatic standby function is not available with the FM/AM function.

Basic Operations



- | | | |
|--|-----------------------------------|---|
| 1 OPERATE button | 9 TUNE/ (folder) - button | 17 SLEEP button |
| 2 OPR/BATT indicator | 10 TUNE/ (folder) + button | 18 FAVORITE RADIO STATION (-SET) buttons |
| 3 USB button | 11 (USB) port | 19 FM antenna*2 |
| 4 CD button | 12 AUDIO IN jack | |
| 5 FM/AM button | 13 (headphones) jack | |
| 6 AUDIO IN button | 14 VOLUME - button | |
| 7 PLAY/FM MODE button | 15 VOLUME + button*1 | |
| 8 (go backward)/PRESET - button | 16 CD OPEN switch | |
| (go forward)/PRESET + button | 17 (play/pause) button*1 | |
| | (stop) button | |
| | 18 DISPLAY (ENTER) button | |

Note
It will take a while for the unit to turn on if **CD 4** is pressed immediately after the unit was turned off while the CD function was active.

To adjust the volume

Press **VOLUME** + or - **13**. If you want to adjust the volume level continuously, hold the button down, and release it at the desired level.

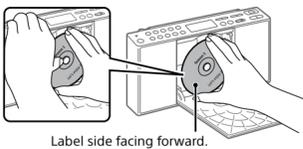
To listen through headphones

Connect headphones to the (headphones) jack **12**. To protect your hearing, avoid listening at excessive volume level when listening through headphones.

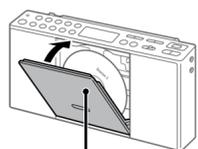
Playing a music disc

- 1 Press **CD 4** to turn on the CD function.
- 2 Slide the **CD OPEN** **16** to the right, and place a disc in the CD compartment with the label side facing forward.

Press the center area of the disc gently until it snaps into place.



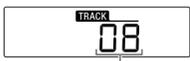
- 3 Close the CD compartment door.



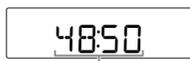
The disc is loaded and the disc information appears on the display.

Audio CD

(Total number of tracks and total playing time appear in order.)



Total number of tracks



Total playing time

MP3/WMA disc

(Total number of folders and total number of files appear.)



Total number of folders*1 Total number of files

- 4 Press **▶|| 15** to start playback.



Playing time*2,3

*1 If MP3/WMA files are present only in the root directory, "001" appears on the display.

*2 If the playing time is longer than 100 minutes, "----" appears on the display.

*3 By pressing **DISPLAY 16**, playback screen changes between showing the function name, the playing time, and the current track number (or showing the current folder and file numbers (MP3/WMA)).

Other operations

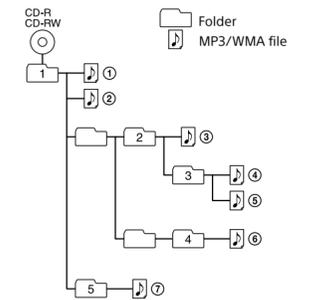
To	Do this
Pause playback	Press ▶ 15 . To return to playback, press the button again.
Stop playback	Press ■ 15 . When you press ▶ 15 after playback is stopped, playback will start from the beginning of the track/file you were last playing (Resume Play).
Select a folder on an MP3/WMA disc	Press TUNE/ + or - 9 .
Select a track/file	Press ◀◀ or ▶▶ 8 . You can skip tracks/files one by one.
Find a point in a track/file	Hold down ◀◀ or ▶▶ 8 during playback, and release the button at the desired point. When locating a point while paused, press ▶ 15 to start playback after the desired point is found.

Tip
To cancel the Resume Play, press **■ 15** while the CD is stopped.

Note
Resume Play is cancelled in the following cases:
— When you open the CD compartment.
— When you turn off the power.

Example of folder structure and playing order

The playing order of the folders and files is as follows. However, the playing order may differ from the original order on the disc, depending on the recording method used.



Notes on MP3/WMA discs

- When a disc is loaded, the unit reads all the files on that disc. During this time, "READ" is flashing. If there are many folders or non-MP3/WMA files on the disc, it may take a long time for play to begin or for the next MP3/WMA file to start to play.
- We recommend that non-MP3/WMA files or unnecessary folders are excluded when creating MP3/WMA discs.
- During playback, audio files other than MP3 and WMA files are skipped even if those files are included in a folder.
- The audio formats supported by this unit are as follows:
— MP3: file extension ".mp3"
— WMA: file extension ".wma"
- Note that even if the file name has the correct file extension but the actual file was created in a different audio format, this unit may produce noise or may malfunction.
- MP3 PRO format is not supported.
- WMA files encoded in WMA DRM, WMA Lossless and WMA PRO formats cannot be played back.
- This unit cannot play audio files on a disc in the following cases:
— When the total number of audio files exceeds 999.
— When the total number of folders on a single disc exceeds 255 (including the "ROOT" folder).
— When the directory level (folder depths) exceeds 9* (including the "ROOT" folder).
* Playback for files contained in directory levels above 9 is possible but not guaranteed.

Listening to music on a USB device

You can listen to audio files stored on a USB device (a digital music player or USB storage media). Audio files in MP3 and WMA formats* can be played on this unit.

- * Files with copyright protection (Digital Rights Management) cannot be played on this unit.

Compatible USB devices

Compatibility requirements for the USB devices are as follows. Before using a device with this unit, check that it meets the requirements.

- Compliance with USB 2.0 (Full Speed)
- Supports Mass Storage mode*

* Mass Storage mode is a mode that allows a USB device to become accessible to a host device, enabling file transfers. Most USB devices support Mass Storage mode.

- 1 Connect the USB device to the (USB) port **10**.
- 2 Press **USB 3** to turn on the USB function.



Total number of folders

- 3 Press **▶|| 15** to start playback.



Playing time*1,2

*1 If the playing time is longer than 100 minutes, "----" appears on the display.

*2 By pressing **DISPLAY 16**, playback screen changes between showing the function name, the playing time, and the current folder and file numbers.

Other operations

To	Do this
Pause playback	Press ▶ 15 . To return to playback, press the button again*.
Stop playback	Press ■ 15 . When you press ▶ 15 after playback is stopped, playback will start from the beginning of the track/file you were last playing (Resume Play).
Select a folder	Press TUNE/ + or - 9 .
Select a file	Press ◀◀ or ▶▶ 8 . You can skip files one by one.
Find a point in a file	Hold down ◀◀ or ▶▶ 8 during playback, and release the button at the desired point. When locating a point while paused, press ▶ 15 to start playback after the desired point is found.

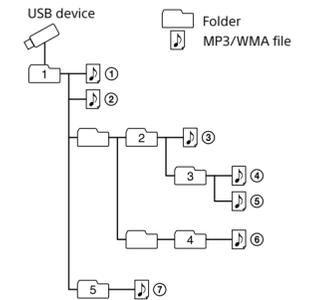
* When playing a VBR MP3/WMA file, playback may restart from a different point.

Note

When removing a USB device, hold down **■ 15** until "no DEV" appears, and then turn off the unit or switch to other functions beforehand. Removing the USB device without performing these steps may corrupt the data on the USB device or damage the device itself.

Example of folder structure and playing order

The playing order of the folders and files is as follows. However, the playing order may differ from the original order on the USB device, depending on the recording method used.



Notes on the USB device

- It may take a long time before playback starts when:
— the folder structure is complex.
— the USB device is close to capacity.
- When a USB device is connected, the unit reads all the files on the device. If there are many folders or files on the device, it may take a long time for the unit to finish reading them.
- Do not connect a USB device to the unit through a USB hub.
- With some connected USB devices, after an operation is performed, there may be a delay before it is performed by this unit.
- This unit may not support all the functions provided with a connected USB device.
- Do not save non-MP3/WMA files or unnecessary folders to a USB device that contains MP3/WMA files.
- During playback, audio files other than MP3 and WMA files are skipped even if those files are included in a folder.
- The audio formats supported by this unit are as follows:
— MP3: file extension ".mp3"
— WMA: file extension ".wma"
- Note that even if the file name has the correct file extension but the actual file was created in a different audio format, this unit may produce noise or may malfunction.
- MP3 PRO format is not supported.
- WMA files encoded in WMA DRM, WMA Lossless and WMA PRO formats cannot be played back.
- This unit cannot play audio files on a USB device in the following cases:
— When the total number of audio files in a single folder exceeds 999.
— When the total number of audio files on a single USB device exceeds 4,000.
— When the total number of folders on a single USB device exceeds 255 (including the "ROOT" folder).
— When the directory level (folder depths) exceeds 9 (including the "ROOT" folder).
These numbers may vary depending on the file and folder structure.
- Compatibility with all encoding/writing software is not guaranteed. If audio files on the USB device were originally encoded with incompatible software, those files may produce noise or interrupted sound, or may not be played back at all.

To use the unit as a battery charger

You can use the unit as a battery charger for USB devices that have a rechargeable function when the unit is turned on. Be sure to turn on the USB function beforehand. Charging is only available when the USB function is turned on.

Note

When charging a USB device, connect the unit to a wall outlet using the AC power cord to keep the batteries from being drained.

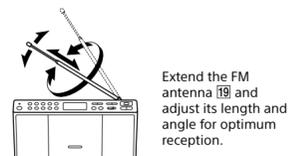
Note on charging the battery (European models only)

If the automatic standby mode is set to "ON," charging will stop when the unit enters standby mode even if the battery is not fully charged. To prevent this from happening, set the automatic standby mode to "OFF." See "To use the power-management function (European models only)" for details on turning off the automatic standby function.

Listening to the radio

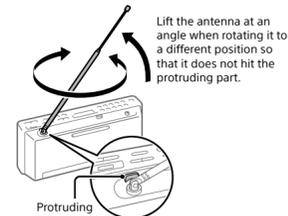
- 1 Press **FM/AM 5** repeatedly to turn on the radio function and select the "FM" or "AM" band.
- 2 Adjust the antenna for optimum reception.

FM

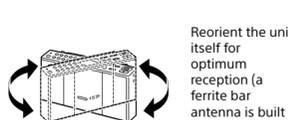


Notes

- When adjusting the FM antenna **19**, be sure to hold it by the bottom part. The antenna may be damaged if you move it with excessive force while holding it by the upper part.
- When adjusting the FM antenna **19** by rotating it as illustrated below, do not rotate the antenna further once it hits the protruding part on the unit. Doing so may damage the antenna.



AM



- 3 Hold down **TUNE/ + or - 9** until the frequency digits begin to change on the display. The unit automatically scans the radio frequencies and stops when it finds a clear station.

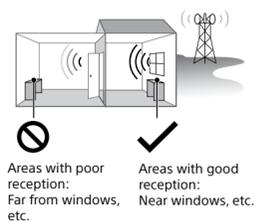
If you cannot tune to a station using automatic tuning mode, press **TUNE/ + or - 9** repeatedly to change the frequency step by step. When an FM stereo broadcast is received, "ST" lights up on the display.

Tips

- The unit of frequency of tuned stations is MHz for the FM band and kHz for the AM band.
- If the stereo FM reception is noisy, press **PLAY/FM MODE 7** repeatedly until "Mono" appears on the display. You will lose the stereo effect, but the reception will be improved.

To improve radio reception

Use the radio in a place where radio signals can be easily received such as near a window. Also, adjust the antenna (FM) or reorient the unit itself (AM) for good reception.



If the reception problem still persists, try changing the installation location. Avoid places such as the following:

