SONY

4-576-951-**11**(1)

Personal Audio System

Operating Instructions

(1)

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ZS-PS55B

http://www.sony.net/

DAB DAB+

WARNING

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.

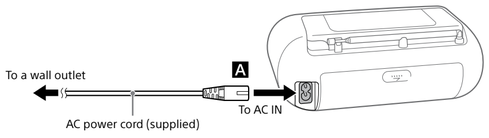
Excessive sound pressure from earphones and headphones can cause hearing loss.

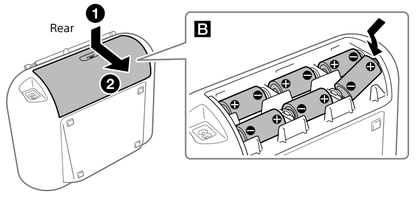
Do not expose the batteries (battery pack or batteries installed) to excessive heat such as sunshine, fire or the like for a long time.

The nameplate is located on the bottom exterior.

Power Sources

Connect the AC power cord **A**, or insert six R14 (size C) batteries (not supplied) into the battery compartment **B**.





Notes

- When using the radio on batteries and the battery power drops to a certain level, the OPR/BATT indicator 15 dims or power of the radio may go off during playback. If this happens, replace all the batteries with new ones. Even after the OPR/BATT indicator 15 becomes dim, you can use the radio function for some time, although you cannot use the CD player. Before you replace the batteries, be sure to remove any CD and disconnect any USB devices or optional components from the unit.
- To use the unit on batteries, disconnect the AC power cord from the unit and the wall outlet.
- In standby mode with the AC power cord connected, "STANDBY" appears on the display.

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 standby mode on or off, press VOL — 4 while holding down TUNE + 8. Each time you press the buttons, "AUTO STANDBY ON" or "AUTO STANDBY 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 function.
- In the DAB function, if "NOSIGNAL" or "OFF-AIR" remains displayed for 15 minutes, the unit enters standby mode automatically.

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 Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany. For any service or guarantee matters, please refer to the addresses provided in the separate service or guarantee documents.

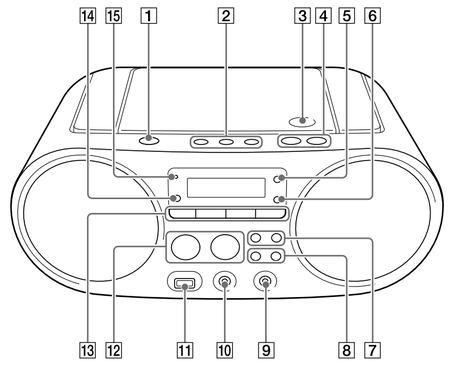
Disposal of waste batteries and electrical and electronic equipment (applicable in the European Union and other European countries with separate collection systems)

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.

Personal Audio System is designed to be used for playing back music sources on CDs or USB devices and listening to radio stations.

Basic Operations



* ▶II 12 and VOL + 4 have a tactile dot.

Before using the unit

To turn the power on or off

Press OPERATE (or POWER) 1. You can also turn on the power of this unit using the direct power-on function (below).
In this manual, operations are mainly explained using the direct power-on function.

To use the direct power-on function

Press CD 13, USB 13, DAB/FM 13, AUDIO IN 13 or FAVORITE RADIO STATIONS (1-3) 2 while the unit is turned off. The power turns on with the relevant function selected.

To adjust the volume

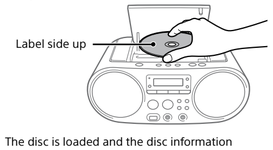
Press VOL + or — 4.

To listen through headphones

Connect headphones to the ∩ (headphones) jack 10.

Playing a music disc

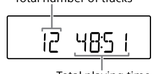
1 Press CD 13 to turn on the CD function.
2 Press PUSH OPEN/CLOSE ⏏ 3, place a disc in the CD compartment and then close the compartment cover.



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

Audio CD

Total number of tracks



Total playing time

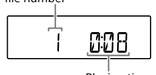
MP3/WMA disc

Total number of folders*

* If MP3/WMA files are present only in the root directory ("ROOT" folder), "1FLDR" appears on the display.

3 Press ▶II 12 to start playback.

Track number or MP3/WMA file number



Playing time

When you play an MP3/WMA disc, the folder name*1 and song title are displayed before the playing time*2 appears.

*1 If MP3/WMA files are present only in the root directory, "ROOT" appears on the display.
*2 If the playing time is longer than 100 minutes, "--:--" appears on the display.

Other operations

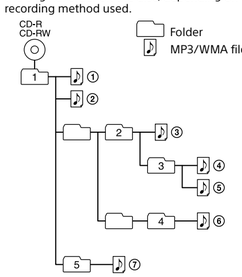
To	Do this
Pause playback	Press ▶II 12. To return to playback, press the button again.
Stop playback	Press ■ 12. When you press ▶II 12 after playback is stopped, playback starts from the point where you stopped playback (Resume Play)*.
Select a folder on an MP3/WMA disc	Press 🗀 + or — 8.
Select a track/file	Press I◀◀ or ▶▶I 7. You can skip tracks/files one by one.
Find a point in a track/file (fast forward/rewind)	Hold down I◀◀ or ▶▶I 7 during playback, and release the button at the desired point. When locating a point while paused, press ▶II 12 to start playback after the desired point is found.

* In program play mode, playback starts from the first programmed track/file.

Tip
To cancel the Resume Play, press ■ 12 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, "READING" 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 256 (including the "ROOT" folder).
  — When the directory level (folder depths) exceeds 8 (including the "ROOT" folder).
- Folder names can be displayed with up to 32 characters, including quotation marks.
- File names can be displayed with up to 32 characters, including quotation marks and file extensions.
- Characters and symbols that cannot be displayed by the unit will appear as "_".
- This unit conforms to version 1.0, 1.1, 2.2, 2.3 and 2.4 of the ID3 tag format for MP3 files and the WMA tag format defined by the ASF specification (Advanced Systems Format) for WMA files. When a file has the ID3 or WMA tag information, the song title, artist name, and album name will be displayed. If a file does not have the tag information, the unit displays as follows:
  — File name instead of the song title.
  — "NO ARTIST" message instead of the artist name.
  — "NO ALBUM" message instead of the album name.
  ID3 and WMA tag information can be displayed up to 64 characters.

Downloaded from www.vandenborre.be

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, WMA and AAC 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*

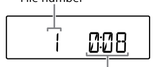
* Mass Storage mode is a mode that allows a USB device to become accessible to a host device, enabling file transfers. Most USB devices support Mass Storage mode.

1 Connect the USB device to the ⑂ (USB) port 11.
2 Press USB 13 to turn on the USB function.
The volume label is displayed once, then the total number of folders appears on the display.

Total number of folders

3 Press ▶II 12 to start playback.
The folder name and song title are displayed, and then the file number and playing time appear.

File number



Playing time*

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

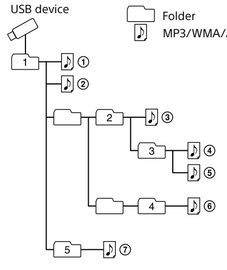
Other operations

To	Do this
Pause playback	Press ▶II 12. To return to playback, press the button again*1.
Stop playback	Press ■ 12. When you press ▶II 12 after playback is stopped, playback starts from the point where you stopped playback (Resume Play)*2.
Select a folder	Press 🗀 + or — 8.
Select a file	Press I◀◀ or ▶▶I 7. You can skip files one by one. To skip files continuously, hold down I◀◀ or ▶▶I 7 and release the button at the desired file.
Find a point in a file (fast forward/rewind)	Hold down I◀◀ or ▶▶I 7 during playback, and release the button at the desired point. When locating a point while paused, press ▶II 12 to start playback after the desired point is found.

*1 When playing a VBR MP3/WMA/AAC file, playback may restart from a different point.
*2 In program play mode, playback starts from the first programmed file.

Note
When removing a USB device, hold down ■ 12 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/AAC files or unnecessary folders to a USB device that contains MP3/WMA/AAC files.
- During playback, audio files other than MP3, WMA and AAC 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"
  — AAC: file extension ".m4a," ".3gp" and ".mp4"
  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.
- AAC files encoded in copyright-protected AAC format cannot be played back.
- This unit supports the AAC-LC (AAC Low Complexity) profile.
- 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 5,000.
  — When the total number of folders on a single USB device exceeds 256 (including the "ROOT" folder).
  — When the directory level (folder depths) exceeds 8 (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.
- Folder names can be displayed with up to 32 characters, including quotation marks.
- File names can be displayed with up to 32 characters, including quotation marks and file extensions.
- Characters and symbols that cannot be displayed by the unit will appear as "_".
- This unit conforms to version 1.0, 1.1, 2.2, 2.3 and 2.4 of the ID3 tag format for MP3 files, the WMA tag format defined by the ASF specification (Advanced Systems Format) for WMA files, and the AAC tag format for AAC files.
  When a file has the ID3, WMA or AAC tag information, the song title, artist name, and album name will be displayed. If a file does not have the tag information, the unit displays as follows:
  — File name instead of the song title.
  — "NO ARTIST" message instead of the artist name.
  — "NO ALBUM" message instead of the album name.
  ID3, WMA and AAC tag information can be displayed up to 64 characters.

Listening to the radio

1 Press DAB/FM 13 repeatedly to turn on the radio function and select the "DAB" or "FM" band.

Reception of DAB/DAB+ radio station
When you press DAB/FM 13 for the first time after you purchase the unit, DAB auto tune starts automatically and creates a list of available services. During DAB auto tune, the progress indicator flashes on the display. Do not press any buttons during DAB auto tune. Scanning will be interrupted and the service list may not be created properly.

2 Perform tuning.

For tuning to a DAB/DAB+ station

Press TUNE + or — 8 repeatedly to tune to the desired station.
"SC" flashes on the display when the selected primary station has a secondary service. Press TUNE + or — 8 to tune to the secondary service. "SC" lights up when a secondary service is received.

For tuning to an FM station

Hold down TUNE + or — 8 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 — 8 repeatedly to change the frequency step by step.
When an FM stereo broadcast is received, "ST" lights up on the display.

Note
The unit of frequency of tuned stations is MHz.

Notes on DAB/DAB+ stations

- When tuning to a DAB/DAB+ station, it may take a few seconds before you hear any sound.
- Primary service is automatically received when secondary service ends.
- This tuner does not support data services.

To make low sounds clear for DAB/DAB+ reception

The DRC (Dynamic range control) function makes low sounds clear even when you turn the volume down.
Check that the DAB/DAB+ station you are listening to conforms to DRC.

1 Hold down PLAY/FM MODE 5 until "DRC x" appears on the display.
2 Press TUNE + or — 8 to select "2," "1" (default setting) or "0.5."
To turn off the DRC function, select "0."
3 Press ENTER 6.

To run the DAB auto tune manually

If you have moved to another area, perform the DAB auto tune manually and re-register the contents of broadcasts.

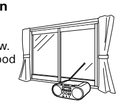
Hold down DAB/FM 13 until "INITIAL" and "SCAN?" appear alternately on the display, and then press ENTER 6.
Scanning begins. Depending on the DAB/DAB+ services available in your area, scanning may take a few minutes.
When scanning is complete, a list of available services is created.

Notes

- If your country or region does not support DAB/DAB+ broadcasts, "NOSIGNAL" appears on the display.
- The currently stored list of available services will be cleared once the DAB auto tune process has started.

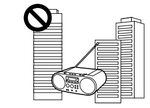
To improve radio reception

Use the radio in a place where radio signals can be easily received such as near a window. Also, adjust the antenna for good reception.



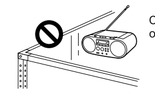
Adjust the antenna to improve FM reception. If the stereo FM reception is noisy, press FM MODE 5 repeatedly until "MONO" appears on the display. You will lose the stereo effect, but the reception will be improved.

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



Between buildings

Nearby mobile phones, electrical appliances



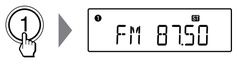
On steel desks or tables

Presetting stations to FAVORITE RADIO STATIONS

You can preset up to three favorite stations to FAVORITE RADIO STATIONS (1-3) buttons. Assign one DAB or FM program for each button.

1 Press DAB/FM 13 repeatedly to turn on the radio function and select the band "DAB" or "FM."
2 Tune to the station you want to preset.
3 Press and hold the desired FAVORITE RADIO STATIONS (–SET) (1-3) button 2 until you hear a beep.
The tuned station is preset to the selected button of FAVORITE RADIO STATIONS (1-3) and the same number as that of the button will light up on the display.

(Example: Presetting FM 87.50 MHz to number ❶)



To change the preset station

Repeat steps 1 to 3.
The preset station on the button will be replaced by the new one.

Listening to preset stations with FAVORITE RADIO STATIONS

Press the desired FAVORITE RADIO STATIONS (1-3) button 2.

Note
To prevent the preset from being changed by mistake, do not hold down the button. If doing so, the preset on the button will be replaced by the currently tuned station.

Other Operations

Using the display

Checking the information of an audio CD

Press ■ 12 twice to cancel Resume Play.
The total number of tracks and total playing time appear on the display.

Checking MP3/WMA/AAC file information

Press DISPLAY 6 repeatedly while playing an MP3/WMA file on the disc or an MP3/WMA/AAC file on the USB device.
The display changes as follows:

→ Song title (♫)*1, 2
↓
Artist name (👤)*1
↓
Album name (💿)*1
↓
Current file number and playing time*3

*1 If the file does not have corresponding ID3, WMA or AAC tag information, the file name, "NO ARTIST," and "NO ALBUM" scroll on the display instead of the song title, artist name, and album name.
*2 The function name is displayed for 2 seconds before the song title appears.
*3 The artist name or album name changes to this after a few seconds or when the scrolling completes.

Checking the radio information

Press DISPLAY 6 repeatedly while listening to the radio.
The display changes as follows:

When listening to FM
Preset number*1 → Frequency

When listening to DAB
Preset number*1 → DLS (Dynamic Label Segment)*2 → PTY label*2 (see "PTY (programme type)" in "Specifications") → Ensemble label*2 → Channel → Bit rate*3 → Signal level*3 → Component label

Press ■ 12 to return to the normal display.

*1 A preset number is displayed only when you are listening to the preset radio station.
*2 "NO DLS," "NO PTY" or "NOSIGNAL" may appear if no DLS, no PTY label or no ensemble label is received.
*3 "---" may appear if no bit rate or no signal level is received.

Selecting play mode

You can set the unit to play tracks or files repeatedly or in random order while a disc/USB device is stopped.

Press PLAY MODE 5 repeatedly.

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

→ Normal play (None)
↓
Single repeat (↻ 1)
↓
All repeat (↻)
↓
Selected folder play (🗀)*
↓
Selected folder repeat play (↻, 🗀)*
↓
Shuffle play (🔀)
↓
Program play (PGM)
↓
Program repeat play (↻, PGM)

* These functions are available only when playing MP3/WMA files on an MP3/WMA disc or MP3/WMA/AAC files on a USB device.

Playing tracks/files repeatedly (Repeat Play)

You can set the unit to repeatedly play CD-DA tracks on an audio CD, MP3/WMA files on a CD-R/CD-RW disc, or MP3/WMA/AAC files on a USB device in normal, folder and program play modes.

1 Press CD 13 or USB 13 to turn on the CD or USB function.
2 Proceed as follows.

To repeat	Do this
A single track/file	1 Press PLAY MODE 5 repeatedly until "↻ 1" appears. 2 Press ⏮ or ⏭ 7 to select a track/file that you want to repeat. 3 Press ▶II 12.
All tracks/files	1 Press PLAY MODE 5 repeatedly until "↻" appears. 2 Press ▶II 12.
A selected folder on an MP3/WMA disc or USB device	1 Press PLAY MODE 5 repeatedly until "🗀" and "↻" appear. 2 Select a folder by pressing 🗀 + or — 8. 3 Press ▶II 12.
Programmed tracks/files	1 Program tracks/files (see "Creating your own program (Program Play)"). 2 Press PLAY MODE 5 until "PGM" and "↻" appear on the display. 3 Press ▶II 12.

To cancel Repeat Play
Press ■ 12 to stop playback, and then press PLAY MODE 5 repeatedly until "↻" (or "↻ 1") disappears from the display.

Playing tracks/files in random order (Shuffle Play)

You can set the unit to play CD-DA tracks on an audio CD, MP3/WMA files on a CD-R/CD-RW disc or MP3/WMA/AAC files on a USB device in random order.

1 Press CD 13 or USB 13 to turn on the CD or USB function.
2 Press PLAY MODE 5 repeatedly until "🔀" appears on the display.
3 Press ▶II 12 to start Shuffle Play.

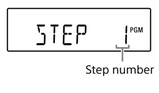
To cancel Shuffle Play
Press ■ 12 to stop playback, and then press PLAY MODE 5 repeatedly until "🔀" disappears from the display.

Tip
During Shuffle Play, you cannot select the previous track/file by pressing ⏮ 7.

Creating your own program (Program Play)

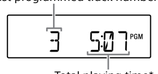
You can arrange the playing order of up to 25 tracks/files on a disc/USB device.

1 Press CD 13 or USB 13 to turn on the CD or USB function.
2 Press PLAY MODE 5 repeatedly until "PGM" appears on the display.
3 Press ⏮ or ⏭ 7 to select a track/file.
When you want to specify a folder that contains MP3/WMA/AAC files, press 🗀 + or — 8 first to select a folder, and then press ⏮ or ⏭ 7 to select a file.
4 Press ENTER 6.
The track/file is programmed.
The program step number appears, followed by the total playing time.
(Example: audio CD)



Step number

Last programmed track number



Total playing time*

* "--:--" appears when programming an MP3/WMA disc/USB device or when the total playing time is longer than 100 minutes.

5 Repeat steps 3 and 4 to program additional tracks/files.
6 Press ▶II 12 to start Program Play.
To play the same program again, press ▶II 12.
Note that the created program is cleared in the following cases:
— When you open the CD compartment.
— When you connect another USB device.
— When you turn off the power of the unit in the CD function.

Note
If you try to program 26 tracks/files or more, "FULL" flashes on the display.

To display programmed track/file information
After creating your own program, you can check information about programmed tracks/files.

Press DISPLAY 6 repeatedly and the display changes as follows:

Total number of steps ↔ Last programmed track/file number and the total playing time*

* "--:--" appears for MP3/WMA discs and USB devices, or when the total playing time is longer than 100 minutes.

To cancel Program Play
Press ■ 12 to stop playback, and then press PLAY MODE 5 repeatedly until "PGM" disappears from the display.

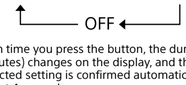
To delete all tracks/files in the current program
Stop playback, and then press ■ 12. "NO STEP" appears and you can create a new program, following the procedure "Creating your own program (Program Play)."

Presetting radio stations

You can store radio stations in the unit's memory. You can preset up to 30 radio stations, 20 for FM and 10 for DAB.

Presetting FM stations automatically

1 Press DAB/FM 13 repeatedly to turn on the radio function and select the "FM" band.
2 Hold down DAB/FM 13 until "AUTO" flashes on the display.

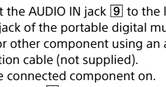


3 Press ENTER 6 to store the station.
The stations are stored in memory from lower frequencies to higher ones.

Presetting radio stations manually

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

1 Press DAB/FM 13 repeatedly to select a band.
2 Tune to the desired station.
3 Hold down ENTER 6 until "DAB-xx" or "FM-xx" flashes on the display.
(Example: DAB)



4 Press PRESET + or — 7 until the preset number for the station you want flashes on the display.
5 Press ENTER 6 to store the station.
If another station is already assigned to the selected preset number, that station is replaced by the new one.

Tip
The preset radio stations remain in the unit's memory even in the following situations.
—The AC power cord is unplugged.
—The batteries are removed.

Listening to preset radio stations

1 Press DAB/FM 13 repeatedly to turn on the radio function and select the "DAB" or "FM" band.
2 Press PRESET + or — 7 to select a stored preset number for the desired radio station.

Using the Sleep Timer

You can set the unit to turn off automatically after a set time has elapsed.

1 Press SLEEP 14.
The default setting ("90") appears and the "SLEEP" indicator lights up on the display.
2 Press SLEEP 14 repeatedly to select the desired setting.

90 → 60 → 30 → 15
↑ OFF ←

Each time you press the button, the duration (in minutes) changes on the display, and the selected setting is confirmed automatically after about 4 seconds.

Tip
You can check the time left until the unit turns off by pressing SLEEP 14 again after setting the sleep timer.

Connecting optional components

You can enjoy the sound from an optional component, such as a portable digital music player, through the speakers of this unit.
Be sure to turn off the power of each component before making any connections.
For details, refer to the instruction manual of the component to be connected.

1 Connect the AUDIO IN jack 9 to the line output jack of the portable digital music player or other component using an audio connection cable (not supplied).
2 Turn the connected component on.
3 Press AUDIO IN 13 and start playing sound on the connected component.
The sound from the connected component is output from the speakers.

To connect the unit to a TV or video recorder/player, use an extension cable (not supplied) with a stereo-mini jack on one end and two phono plugs on the other end.

Precautions

Discs that this unit CAN play
- Audio CD (CD-DA*1 tracks)
- CD-R/CD-RW that contains MP3/WMA files and is finalized*2 correctly.

*1 CD-DA is the abbreviation for Compact Disc Digital Audio. It is a recording standard used for audio CDs.
*2 Finalizing is the process to make the CD-R/CD-RW discs playable on the consumer disc player products, and the finalizing can be enabled or disabled as optional settings during disc creation in most recording software.

Discs that this unit CANNOT play
- CD-R/CD-RW other than those recorded in audio CD format or formats conforming to ISO 9660 Level 1/Level 2 or Joliet
- CD-R/CD-RW of poor recording quality, CD-R/CD-RW with scratches or that is dirty, or CD-R/CD-RW recorded using an incompatible recording device
- CD-R/CD-RW that is unfinalized or finalized incorrectly

Notes on discs

- Clean the CD with a cleaning cloth if the disc is dirty. Wipe the disc from the center out. If there are scratches, dirt or fingerprints on the disc, a tracking error may occur.
- Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.
- Do not expose the CD to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight as there can be a considerable rise in temperature inside the car.
- Do not stick paper or a sticker on the CD, or scratch the surface of the CD.
- After playing, store the CD in its case.

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.

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

On safety
- As the laser beam used in the CD player section is harmful to eyes, do not attempt to disassemble the casing. Refer servicing to qualified personnel only.
- Should any solid object or liquid fall into the unit, unplug the unit, and have it checked by qualified personnel before operating it any further.
- 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.

On power sources
- For AC operation, use the supplied AC power cord; do not use any other cord.
- Unplug the unit from the wall outlet if it is not to be used for an extended period of time.
- When not using the batteries, remove them to avoid damage that can be caused by battery leakage or corrosion.

On placement
- Do not leave the unit in a location near heat sources, in a place subject to direct sunlight, excessive dust or mechanical shock, or in a car subject to the direct rays of the sun.
- Do not place the unit on an inclined or unstable surface.
- Do not place anything within 10 mm of the rear of the cabinet. The ventilation openings must be unobstructed for the unit to operate properly and prolong the life of its components.
- Since a strong magnet is used for the speakers, keep personal credit cards using magnetic coding or spring-wound watches away from the unit to prevent possible damage from the magnet.

On operation
- If the unit is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens inside the CD player section. Should this occur, the unit will not operate properly. In this case, remove the CD and wait about an hour for the moisture to evaporate.

On handling the unit
- Do not leave the CD compartment open to avoid dust and debris contamination.

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

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

Troubleshooting

Downloaded from www.vandenborre.be

General

The power does not turn on.
- Make sure the AC power cord is connected to the wall outlet securely.
- Make sure the connector of AC power cord is inserted into the AC IN jack securely.
- Check if the batteries are inserted correctly, matching the polarities.
- Replace all the batteries with new ones when the OPR/BATT indicator 15 dims.

There is no sound.
- Make sure the appropriate function is selected for the music or sound source you want to listen to.
- Unplug the headphones when listening through speakers.

The sound is noisy.
- Is someone using a mobile phone or other equipment emitting radio waves near the unit? If so, move the unit away from such devices.

A small humming noise is heard.
- This is not a malfunction. You may hear a small humming noise depending on the status of the power supply.

"NOT IN USED" appears.
- You pressed an invalid button.

CD/MP3/WMA player

The CD player does not play even when a CD is in place.
- Place the CD with the label side up.
- Clean the CD.
- Take out the CD and leave the CD compartment open for about an hour to dry moisture condensation.
- The CD-R/CD-RW is blank or unfinalized.
- There are no playable MP3/WMA files on the disc.
- There is a problem with the quality of the CD-R/CD-RW, recording device or application software.
- If the CD-R/CD-RW has been recorded on a PC, it needs to be finalized.
- Replace all the batteries with new ones when the OPR/BATT indicator 15 dims.

"NO CD" appears when the disc is loaded.
- No disc is set in the CD compartment. Set a disc.
- The CD may have a reading problem. Replace the disc.
- The CD may be placed upside down. Place the disc with the label side up.
- An unplayable disc (DVD, BD, etc.) is loaded. Replace the disc.

"NO TRACK" appears on the display when the disc is loaded.
- No audio files recorded in supported formats, or a file to be played back has an unsupported file extension.

"DISC ERR" appears when the disc is loaded.
- The CD may be dirty. Clean the disc.
- The CD may have scratches. Replace the disc.
- The CD may have a reading problem. Replace the disc.
- A blank disc may be set in the CD compartment.

The sound drops out.
- Reduce the volume.
- Clean the CD, or replace it if the CD is badly damaged.
- Place the unit in a location free from vibrations.
- Clean the lens with a commercially available blower.
- The sound may drop out or noise may be heard when using a poor quality CD-R/CD-RW or if there is a problem with the recording device or application software.

Starting playback takes more time than usual.
- The following discs take a longer time to start playback.
— A disc recorded with a complicated tree structure.
— A disc that has many folders or non-MP3/WMA files.

USB device

The USB device does not work properly.
- If you connect an incompatible USB device, the following problems may occur.
— The USB device is not recognized.
— File or folder names are not displayed on this unit.
— Playback is not possible.
— The sound skips.
— There is noise.
— The sound output is distorted.

"NOT SUPPORT" appears.
- An unexpected error occurs in the connected device.
- An unknown device is connected.
- An unsupported USB device is connected and playback or pause operation is performed.

"OVER CURRENT" appears and the unit turns off automatically.
- An abnormal level has been detected in the electrical current from the Ψ (USB) port 11. In this case, remove the USB device from the Ψ (USB) port 11 and reconnect the USB device, and then turn on the unit again. If this problem persists after turning on the power of the unit, contact your nearest Sony dealer.

There is no sound.
- The USB device may be connected incorrectly. Turn off the unit and reconnect the USB device. Then turn on the unit.

There is noise, skipping, or distorted sound.
- Turn off the unit and reconnect the USB device. Then turn on the unit again.
- The music data itself contains noise, or the sound is distorted. Noise may have entered during the creation of audio files. Try re-creating audio files and use them to play on this unit.

The USB device cannot be connected to the Ψ (USB) port 11.
- The connector on the USB device or the USB cable is being inserted backwards. Insert it to the Ψ (USB) port 11 in the correct direction.

"READING" is displayed for an extended time, or it takes a long time before playback starts.
- The reading process can take a long time in the following cases:
— There are many folders or files on the USB device.
— The file structure is complex.
— The memory is almost full.
— The internal memory is fragmented.
To avoid the above problems, we recommend that you adhere to the following guidelines:
— Keep the total number of folders on a USB device to 100 or less.
— Keep the total number of files per folder to 100 or less.

Erroneous display
- The data stored on the USB device may be corrupted. Send the music data to the USB device again.
- This unit can display only numbers and letters of the alphabet. Other characters will not be displayed correctly.

The USB device is not recognized.
- Turn off the unit and reconnect the USB device, then turn on the unit.
- The USB device is not functioning properly. Refer to the USB device operation manual for details on how to deal with this problem.

Play does not start.
- Turn off the unit and reconnect the USB device.

Play does not start from the first track.
- Set the play mode to Normal Play.

MP3/WMA/AAC files cannot be played back.
- The audio files may have inappropriate file extensions. The file extensions supported by this unit are as follows:
— MP3: file extension ".mp3"
— WMA: file extension ".wma"
— AAC: file extension ".m4a," ".3gp" and ".mp4"
- The audio files may have been created in formats other than MP3/WMA/AAC formats.
- The USB storage device uses a file system other than FAT16 or FAT32.*
- The files are encrypted or protected by passwords.

* This unit supports FAT16 and FAT32, but some USB storage media may not support both file systems.
For details, refer to the operation manual of the USB storage device in question or contact the manufacturer.

Radio

The sound is weak or reception is poor.
- Replace all the batteries with new ones.
- Move the unit away from nearby TVs.
- Extend the antenna to its full length, and reorient it for best reception.
- If you are in a building, listen near a window.
- If a mobile phone is placed close to the unit, a loud noise may be heard from the unit. Keep the phone away from the unit.

The TV picture is unstable.
- If you are listening to an FM program near a TV with an indoor antenna, move the unit away from the TV.

DAB/DAB+ radio stations are not received properly.
- Perform the DAB auto tune procedure (see "To run the DAB auto tune manually").
- The current DAB/DAB+ service may not be available. Press TUNE + or — 8 to select a different service.
- If you have moved to another area, some services/frequencies may have changed and you may not be able to tune to your usual broadcast. Perform the DAB auto tune procedure to re-register the contents of broadcasts. (Performing this procedure clears all previously stored presets.)

After trying the suggested remedies, if the problem persists, unplug the AC power cord or remove all the batteries. After all the indications on the display disappear, plug in the AC power cord again, or re-insert the batteries. If the problem persists, consult your nearest Sony dealer.

Specifications

CD player section
System
Compact disc digital audio system
Laser diode properties
Emission duration: Continuous
Laser output: Less than 44.6 μW
(This output is the value measurement at a distance of 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)
Number of channels
2
Frequency response
20 Hz — 20,000 Hz +1/–2 dB
Wow and flutter
Below measurable limit

Radio section
Frequency range
DAB (Band-III): 174.928 MHz — 239.200 MHz
FM: 87.5 MHz — 108 MHz (50 kHz step)

DAB (Band-III) frequency table (MHz)

Channel	Frequency	Channel	Frequency
5A	174.928	10A	209.936
5B	176.640	10B	211.648
5C	178.352	10C	213.360
5D	180.064	10D	215.072
6A	181.936	11A	216.928
6B	183.648	11B	218.640
6C	185.360	11C	220.352
6D	187.072	11D	222.064
7A	188.928	12A	223.936
7B	190.640	12B	225.648
7C	192.352	12C	227.360
7D	194.064	12D	229.072
8A	195.936	13A	230.784
8B	197.648	13B	232.496
8C	199.360	13C	234.208
8D	201.072	13D	235.776
9A	202.928	13E	237.488
9B	204.640	13F	239.200
9C	206.352		
9D	208.064		

Antenna
Telescopic antenna

Input
AUDIO IN
Stereo mini jack
Ψ (USB) port
Type A, maximum current 500 mA, USB 2.0 Full Speed compatible

Output
🎧 (headphones) stereo mini jack
For 16 Ω — 32 Ω impedance headphones

Supported audio formats
Supported bit rates
MP3 (MPEG 1 Audio Layer-3):
32 kbps — 320 kbps, VBR
WMA:
48 kbps — 192 kbps, VBR
AAC*:
8 kbps — 320 kbps, VBR
* USB function only
Sampling frequencies
MP3 (MPEG 1 Audio Layer-3):
32/44.1/48 kHz
WMA:
32/44.1/48 kHz
AAC*:
32/44.1/48 kHz
* USB function only

General
Speaker
Full range, 8 cm dia., 6 Ω, cone type (2)
Power output
2.0 W + 2.0 W (at 6 Ω, 10% harmonic distortion)
Power requirements
230 V AC, 50 Hz (AC power supply)
9 V DC (6 R14 (size C) batteries)
Power consumption
15 W
0.9 W (during standby mode)
Battery Life*1, *2
Playback of CD
Approx. 7 hours
Playback of USB device
Approx. 7 hours (at 100 mA load)
Approx. 3.5 hours (at 500 mA load)
DAB reception
Approx. 7 hours
FM reception
Approx. 11.5 hours

*1 Measured by Sony standards. The actual battery life may vary depending on the circumstances of the unit or operating conditions.
*2 When using Sony alkaline batteries.

Dimensions
Approx. 300 mm × 125 mm × 210.5 mm (W/H/D) (incl. projecting parts)
Mass
Approx. 2 kg (incl. batteries)

Supplied accessories
AC power cord (1)

Design and specifications are subject to change without notice.

PTY (programme type)
This function indicates services in programme type, such as News or Sports, transmitted in the DAB.
If the received service does not transmit the programme type, "NO PTY" appears.

Programme type	Display
No programme type	NONE
News	NEWS
Current Affairs	AFFAIRS
Information	INFO
Sport	SPORT
Education	EDUCATE
Drama	DRAMA
Culture	ARTS
Science	SCIENCE
Varied	TALK
Pop Music	POP
Rock Music	ROCK
Easy Listening Music	EASY
Light Classical	CLASSICS
Serious Classical	CLASSICS
Other Music	OTHER M
Weather	WEATHER
Finance	FINANCE
Children's programmes	CHILDREN
Social Affairs	FACTUAL
Religion	RELIGION
Phone In	PHONE IN
Travel	TRAVEL
Leisure	LEISURE
Jazz Music	JAZZ
Country Music	COUNTRY
National Music	NATION M
Oldies Music	OLDIES
Folk Music	FOLK
Documentary	DOCUMENT

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