SONY

4-470-543-**15**(1)

Personal Audio System

Operating Instructions

ZS-RS70BTB

http://www.sony.net/

DAB DAB+

RDS

Bluetooth

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 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.

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 Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. 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.

Power Sources

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

To a wall outlet

AC power cord (supplied)

To AC IN
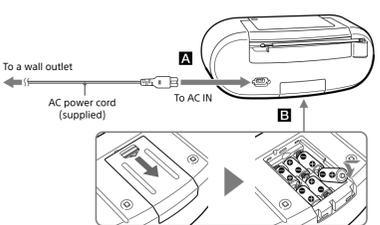
Notes
- Replace the batteries when the OPR/BATT indicator **6** dims, or when the unit becomes inoperable. Replace all of the batteries with new ones. Before you replace the batteries, be sure to remove any CD and disconnect any USB devices or optional components from the unit.
- To use the unit on batteries, disconnect the AC power cord from the unit and the wall outlet.

To use the power-management function

This unit is equipped with an automatic standby function. With this function, the unit enters standby mode automatically about 15 minutes if there is no operation or audio signal output.
To turn standby mode on or off, press DISPLAY **16** while holding down **II**. 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.
- In standby mode with the AC power cord connected, "STANDBY" appears on the display.
- The automatic standby function is not available with the FM function.
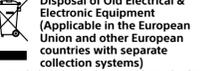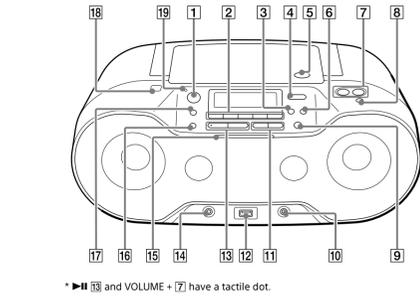
Europe Only

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

This symbol on the battery or on the packaging indicates that the battery provided with this product 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 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 of the batteries. 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 will be treated properly, hand over the product 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.

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- Windows Media is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.
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- The Bluetooth word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Sony Corporation is under license.
- The N Mark is a trademark or registered trademark of NFC Forum, Inc. in the United States and in other countries.
- Android is a trademark of Google Inc.
- Other trademarks and trade names are those of their respective owners. In this manual, ™ and ® marks are not specified.

Basic Operations

* **II** and VOLUME + **7** have a tactile dot.

Illumination

The illumination **15** has the following two features.

Indication of function change

When switching to one of five functions, the center of the illumination (white) increases in intensity to notify the user of a function change. When switching to the Bluetooth function, both sides of the illumination are also lit in blue.

Before using the unit

To turn the power on or off

Press OPERATE **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 **2**, USB **2**, BLUETOOTH **2**, RADIO DAB/FM **2**, or AUDIO IN **2** while the unit is turned off. The power turns on with the relevant function selected.

To adjust the volume

Press VOLUME + or – **7**.
The volume level of this unit is adjustable in steps from 0 to 31. For the 31st step, "VOL MAX" is displayed.

To listen through headphones

Connect headphones to the **Ω** (headphones) jack **10**.

To reinforce the bass

Press MEGA BASS **8**.
"MEGA BASS" lights up on the display.
To return to normal sound, press the button again.

To turn off the light sync function

The light sync function creates lighting effects that synchronize with the music source. By default, this function is on, but you can turn it off as desired.

Hold down LIGHT SYNC **16** until "LIGHT SYNC OFF" appears on the display.
To turn on the function, hold down the button again until "LIGHT SYNC ON" appears.

Playing a music disc

You can play the following types of discs with this unit.
– Audio CDs on which CD-DA tracks are recorded in CD-DA format
– CD-R/CD-RW discs on which MP3 or WMA audio files are recorded in ISO 9660 Level 1/ Level 2 or Joliet

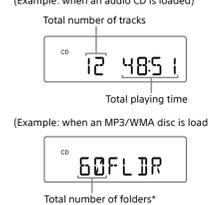**1** Press CD **2** to turn on the CD function.

2 Press PUSH OPEN/CLOSE **⏏ 5**, and place a disc in the CD compartment with the label side up.

When placing the disc, gently push the center part of the disc until a click sound is heard and the disc snaps in the disc holder.

Label side up
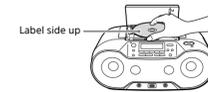
3 Close the CD compartment door securely by pushing down at the PUSH OPEN/ CLOSE **⏏** mark **5**.
(Example: when an audio CD is loaded)

Total number of tracks

Total playing time

(Example: when an MP3/WMA disc is loaded)

Total number of folders*

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

4 Press **►II 13** to start playback.

When you play an MP3/WMA disc, the folder name*1 and song title are displayed before the playing time* appears.
*1 If there is no folder, "ROOT" appears on the display.
*If the playing time is longer than 100 minutes, "--:--" appears on the display.
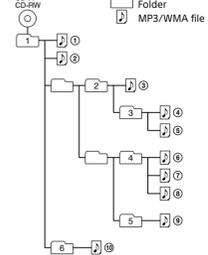
Other operations

To	Do this
Pause playback	Press **►II 13**. To return to playback, press the button again.
Stop playback	Press **■ 13**. When you press **►II 13** after playback is stopped, playback starts from the beginning of the track/ file you were last playing (Resume Play).
Cancel Resume Play	Press **■ 13** twice. When you press **►II 13** after you cancel Resume Play, playback starts from the beginning of the first track/file.
Select a folder on an MP3/ WMA disc	Press **□** (Folder) + or – **4**.
Select a track/ file	Press **I◄◄** or **►►I 11**. You can skip tracks/files one by one.
Find a point in a track/file	Hold down **I◄◄** or **►►I 11** during playback, and release the button at the desired point. When locating a point while paused, press **►II 13** to start playback after the desired point is found.

Tip
Resume Play is cancelled if you press **■ 13**, open the CD compartment or turn off the unit.

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) on this unit.
Audio files in MP3 and WMA formats* can be played on this unit.
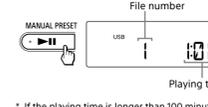For compatible USB devices, see "Compatible USB devices" on the back page.

1 Connect the USB device to the **⟶** (USB) port **12**.

2 Press USB **2** to turn on the USB function.
The volume label* scrolls once, then the total folder number appears on the display.

Total folder number

* If the USB device does not have a volume label, "STORAGE DRIVE" scrolls.
A volume label is a name that you can assign to data storage media or devices.

3 Press **►II 13** 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 13**. To return to playback, press the button again.
Stop playback	Press **■ 13**. When you press **►II 13** after playback is stopped, playback starts from the beginning of the track/ file you were last playing (Resume Play).
Cancel Resume Play	Press **■ 13** twice. When you press **►II 13** after you cancel Resume Play, playback starts from the beginning of the first track/file.
Select a folder	Press **□** (Folder) + or – **4**.
Select a track/ file	Press **I◄◄** or **►►I 11**. You can skip tracks/files one by one.
Find a point in a track/file	Hold down **I◄◄** or **►►I 11** during playback, and release the button at the desired point. When locating a point while paused, press **►II 13** to start playback after the desired point is found.

To	Do this
Remove a USB device	Hold down **■ 13** until "NO DEV" appears on the display, and then disconnect the USB device.

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.
- Do not save non-MP3/WMA files or unnecessary folders to a USB device that contains MP3/WMA files.
- During playback, folders that contain no MP3/ WMA files are skipped.
- 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 5,000.
  – when the total number of folders on a single USB device exceeds 255 (including the "ROOT" folder).
  – when the directory level (folder depths) exceeds 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 and file names can be displayed using up to 32 characters, including quotation marks.
- 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 ASF (Advanced Systems Format) specification) for WMA files. When a file has the ID3 or WMA tag information, 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 32 characters.

Other operations

To	Do this
Pause playback	Press **►II 13**. To return to playback, press the button again.
Stop playback	Press **■ 13**. When you press **►II 13** after playback is stopped, playback starts from the point where you stopped playback (Resume Play).
Cancel Resume Play	Press **■ 13** twice. When you press **►II 13** after you cancel Resume Play, playback starts from the beginning of the first file.
Select a folder	Press **□** (Folder) + or – **4**.
Select a file	Press **I◄◄** or **►►I 11**. You can skip files continuously, hold down **I◄◄** or **►►I 11** and release the button at the desired track/file.
Find a point in a file	Hold down **I◄◄** or **►►I 11** during playback, and release the button at the desired point. When locating a point while paused, press **►II 13** to start playback after the desired point is found.
Remove a USB device	Hold down **■ 13** until "NO DEV" appears on the display, and then disconnect the USB device.

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

Note
When removing a USB device, always hold down **■ 13** until "NO DEV" appears on the display. Removing the USB device without performing this step may corrupt the data on the USB device or damage the device itself.

To change play modes

Press MODE **17** repeatedly while the USB device is stopped.
For details, see "Selecting play mode" on the back page.

Notes on MP3/WMA discs
- When a disc is loaded, the unit reads all the files on that disc. During this time, "READING" is displayed. 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, folders that contain no MP3/ WMA files are skipped.
- 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 on a single folder exceeds 999.
  – When the total number of folders on a single disc exceeds 511.
  – When the directory level (folder depths) exceeds 9 (including the "ROOT" folder).
  – Characters and file names can be displayed with up to 32 characters, including quotation marks.
  – 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 ASF (Advanced Systems Format) specification) for WMA files. When a file has the ID3 or WMA tag information, song title, artist name, and album name will be displayed. If a file does not have the tag information, the unit displays as follows:
  – "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 32 characters.

To change play modes

Press MODE **17** repeatedly while the disc is stopped.
For details, see "Selecting play mode" on the back page.

Example of folder structure and playing order

The playing order of the folders and files is as follows:

Folder
MP3/WMA file

Lighting effects for audio output

Lighting effects (both sides of the illumination are lit in red) are created that synchronize with the music source. You can turn this function on or off as desired (See "To turn off the light sync function").

To erase audio files or folders from the USB device

1 Select the audio file or folder you want to erase.
Press **I◄◄** or **►►I 11** to select an audio file.
Press **□** (Folder) + or – **4** to select a folder.

2 Press ERASE **6**.
"ERASE?" appears on the display.

3 Press ENTER **3**.
"TRACK ERASE?" or "FOLDER ERASE?" appears on the display.

4 Press ENTER **3**.
The selected audio file or folder is erased, and "COMPLETE" appears on the display.

Folder and file generation rules

When first recording to a USB device, a "MUSIC" folder is created directly below the "ROOT". Folders and files are generated within any of the transfer mode-oriented folders as follows.

Synchro Recording*1

Recording source	Folder name	File name
MP3/WMA	Same as the recording source*2	
CD-DA	FLDR001*3	TRACK001*4

Single track recording

Recording source	Folder name	File name
MP3/WMA	RECT*5	Same as the recording source*2
CD-DA		TRACK001*4

*1 Recording a whole disc, MP3/WMA files in a specific folder and only your favorite tracks/files (Program play)
*2 A folder name of up to 32 characters can be assigned.
*3 Folder names are assigned in sequential order up to a maximum of 255 (including the "ROOT" and "MUSIC" folders).
*4 File names are assigned in sequential order.
*5 A new file is recorded to the "RECT" folder each time single track recording is performed.

Notes
- If you start recording in shuffle play or repeat play mode, the selected play mode is automatically changed to normal play.
- Do not remove the USB device during recording or erase operations. Doing so may corrupt the data on the device or damage the device itself.
- While recording from an MP3/WMA disc, no sound is output and "HI-SPEED" appears on the display.
- CD-TEXT information is not transferred in the created MP3 files.
- Recording stops automatically if:
  – the USB device runs out of space during recording.
  – the number of audio files and folders on the USB device reaches the limit that the unit can recognize.
  – the function is changed.
- If a folder or file that you are trying to record has the same name as folder or file already existing on the USB device, a sequential number is added after the name without overwriting the original folder or file.
- You cannot erase MP3/WMA folders during playback pause.
- Non-MP3/WMA format files or sub folders in the folder to be erased are not erased.
- Radio sound cannot be recorded to a USB device.

Note on copyright-protected content
The recorded music is limited to private use only. Use of the music beyond this limit requires permission from the copyright holders.

Recording music from a disc to a USB device

You can record a whole disc (Synchro Recording) or a currently playing track or file (single track recording) to a USB device (digital music player or USB storage media, etc.).
When recording from a CD, the tracks are recorded as MP3 files at 128 kbps. When recording from an MP3/WMA disc, MP3/WMA files are recorded with the same bit rate as the original MP3/WMA files.
For compatible USB devices, see "Compatible USB devices" on the back page.

1 Connect the USB device to the **⟶** (USB) port **12**.

2 Place a disc you want to record in the CD compartment.

To record a whole disc
Proceed to step 3.

To record MP3/WMA files in a specific folder
Press **□** (Folder) + or – **4** repeatedly to select the folder you want.

To record only your favorite tracks/files
Perform steps 1 to 5 of "Creating your own program (Program Play)" on the back page.

To record a single track/file
Select and start playback of the track/file you want to record.

3 Press REC **●** USB **9**.
"REC" flashes and the unit starts calculating the amount of free space on the USB device.

When the calculation is finished, "FREE***G"/"FREE***M" (remaining storage space on the device, in gigabytes/megabytes), and then "PUSH ENT" appears on the display.
If "LOW ***M" appears on the display, there is insufficient space on the device. To cancel recording, press **■ 13**. To continue recording anyway, proceed to step 4.

4 Press ENTER **3**.

Recording starts. Do not remove the USB device while recording.
Playback stops automatically when Synchro Recording is completed.
Playback continues when recording of a single track/file is completed.

Other operations

To	Do this
Stop recording	Press **■ 13**. An MP3/WMA file is created up to the point the recording was stopped.
Remove a USB device	Press USB **2**, then hold down **■ 13** until "NO DEV" appears on the display, and then disconnect the USB device.

Pattern B

Connecting with a paired Bluetooth device

1 Press BLUETOOTH **2** to turn on the Bluetooth function.

2 Turn on the Bluetooth function of the Bluetooth device.

Tip
In the case of the last-connected Bluetooth device, the unit tries to re-establish a Bluetooth connection with it if the device's Bluetooth function is on. When a Bluetooth connection is established, the Bluetooth indicator **0** on the display stays on.

3 Select "SONY:ZS-RS70BT/BTB" shown in the display of the Bluetooth device.
If necessary, select Bluetooth profile "A2DP," which the unit supports. For details on the profile, see "What is Bluetooth Wireless Technology?"
The Bluetooth connection is established and "BT AUDIO" appears on the display.

Notes
- This step may not be necessary for some devices.
- If the unit cannot connect to the Bluetooth device, delete "SONY:ZS-RS70BT/BTB" from the Bluetooth device, then perform pairing again.

Bluetooth standby mode

Bluetooth standby mode makes the unit turn on and switch to the Bluetooth function automatically when you try to make a Bluetooth connection with a Bluetooth device (only when the AC power cord is connected).
Hold down OPERATE **1** until "BT STANDBY ON" enters Bluetooth standby mode.
To cancel the mode, repeat the procedure until "BT STANDBY OFF" appears. The unit is turned off and enters standby mode.

Pattern C

Connecting with a smartphone by One touch (NFC)

By just touching the unit with an NFC-compatible smartphone, the unit is turned on and switched to the Bluetooth function automatically and then paired and connected to the smartphone.

Compatible smartphones
Smartphones with the NFC function built-in (OS: Android 2.3.3 or later, excluding Android 3.x)

About NFC
NFC (Near Field Communication) is a technology enabling short-range wireless communication between various devices, such as mobile phones and IC tags. Thanks to the NFC function, data communication can be achieved easily just by touching the relevant symbol or designated location on NFC compatible devices.

1 Turn on the NFC function of the smartphone.
For details, refer to the operating instructions supplied with the smartphone.

If your smartphone OS is Android 2.3.3 or later, but earlier than Android 4.1
Proceed to step 2.

If your smartphone OS is Android 4.1 or later
Proceed to step 4.

2 Download and install the app "NFC Easy Connect" on the smartphone.
"NFC Easy Connect" is an original app by Sony for Android phones, and is available at the Google Play Store.
Search for "NFC Easy Connect" or scan the following two-dimensional code to download and install the free app. Communication fees are required to download the app.
The App may not be available in some countries and/or regions.

Note
For some smartphones, One-touch connection may be available without downloading the app "NFC Easy Connect." In that case, the operation and specifications may be different from the description here. For details, refer to the operating instructions supplied with the smartphone.

For the two-dimensional code:
Use a two-dimensional code reader app.

3 Start the app "NFC Easy Connect" on the smartphone.
Make sure that the application screen is displayed.

4 Touch the unit with the smartphone.
Keep touching the smartphone to the N mark **18** on the unit until the smartphone responds.

Note
If your smartphone screen is locked, the smartphone will not function. Release the lock, then touch the smartphone to the N mark **18** again.

Smartphone responds (unit recognized)

Follow the on-screen instructions to establish the connection.
When the Bluetooth connection is established, "BT AUDIO" appears on the display.

Tips
- If it is difficult to establish the connection, try the following.
  – Activate the app "NFC Easy Connect" and move the smartphone slightly across the N mark **18** on the unit.
  – If the smartphone is in a case, remove it.
- Touch the unit with the smartphone again to disconnect.
- If you have multiple NFC-compatible devices, just touch the smartphone to a different device to switch the connection to that device. For example, when your smartphone is connected with NFC-compatible headphones, just touch the Bluetooth connection to the unit to change the Bluetooth connection to the unit (One-touch connection switching).

Listening to music on a Bluetooth device wirelessly

Operations may vary depending on the Bluetooth device. Refer also to the operating instructions supplied with your Bluetooth device.

1 Make the Bluetooth connection between the unit and the device.
For details on the Bluetooth connection procedure, see "Making a wireless connection with Bluetooth devices." When the Bluetooth connection is established, the Bluetooth indicator **0** on the display stays on.

2 Start playback on the Bluetooth device, then adjust the volume.
Set the volume of the Bluetooth device to a moderate level, and press VOLUME – or + **7** on the unit.

After use
Do any of the following.
- Turn off the Bluetooth function of the Bluetooth device. For details, refer to the operating instructions supplied with the device.
- Turn off the Bluetooth device.
- Change the function of the unit.
- Turn off the unit.
- Touch the unit with the smartphone again to disconnect (NFC-compatible smartphones only).

To clear the paired device information stored in the unit

1 Press BLUETOOTH **2** to turn on the Bluetooth function.

2 Hold down ERASE **6** until "BT RESET" appears on the display.

3 Press ENTER **3** to reset and clear the paired device information.
When the paired device information is cleared, "COMPLETE" appears on the display.
To cancel the reset operation, press **■ 13** before pressing ENTER **3**.

Listening to the radio

1 Press RADIO DAB/FM **2** repeatedly to select the band "DAB" or "FM."

Reception of DAB/DAB+ radio station

When you press RADIO DAB/FM **2** 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 – **4** repeatedly to tune to the desired station.

"SC" flashes on the display when the selected primary station has a secondary service. Press TUNE + or – **4** 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 – **4** 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 – **4** repeatedly to change the frequency step by step.
When an FM stereo broadcast is received, "ST" lights up on the display.

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.

If the stereo FM reception is noisy
Press MODE **17** repeatedly until "MONO" appears on the display.
You will lose the stereo effect, but the broadcast will improve.

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 MODE **17** until "DRC" appears on the display.

2 Press TUNE + or – **4** to select "2," "1" (default setting) or "0.5."
To turn the DRC function off, select "0."

3 Press ENTER **3**.

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 RADIO DAB/FM-SCAN **2** until "INITIAL" and "SCAN" appears alternately on the display, and then press ENTER **3**.
Scanning begins. Depending on the DAB/DAB+ services available in your area, scanning may take a few minutes.

Progress indicator

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
Reorient the antenna to improve reception.

Making a wireless connection with Bluetooth devices

You can enjoy music wirelessly via the Bluetooth function.
Choose one of the following three connection methods best suited for the Bluetooth device. For details on how to operate your device, refer to the operating instructions supplied with the device.

Pairing with a Bluetooth device:
see **Pattern A**
Bluetooth devices need to be "paired" with each other beforehand.

Connecting with a paired device:
see **Pattern B**
To listen to music with a Bluetooth device that has already been paired.

One touch connection with a smartphone (NFC):
see **Pattern C**
Using an NFC-compatible smartphone, you can establish a Bluetooth connection by just touching the unit with it.

Check the following before operating the unit.
- Both the unit and the device are placed within 1 m of each other.
- The unit is connected to the AC power cord, or the OPR/BATT indicator **6** is lit.
- The operating instructions supplied with the device are at hand.

Pattern A

Pairing and connecting with a Bluetooth device

1 Press BLUETOOTH **2** to turn on the Bluetooth function.

2 Turn on the Bluetooth function of the Bluetooth device.
For details, refer to the operating instructions supplied with the device.
If no devices have been paired, such as when you press BLUETOOTH **2** for the first time after you purchase the unit, the unit automatically enters pairing mode, and the Bluetooth indicator **0** and "PAIRING" on the display stays on. Proceed to step 4.

3 Hold down BLUETOOTH-PAIRING **2** until two beeps are heard.
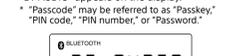The unit enters pairing mode, and the Bluetooth indicator **0** and "PAIRING" on the display flash.

4 Perform the pairing procedure on the Bluetooth device to detect the unit.

5 Select "SONY:ZS-RS70BT/BTB" shown on the display of the Bluetooth device.
If "SONY:ZS-RS70BT/BTB" does not appear on the device's display, repeat from step 2.

Note
Some devices cannot display a list of detected devices.

6 If Passcode* input is required on the display of the Bluetooth device, input "0000."
The Bluetooth connection is established. "BT AUDIO" appears on the display.
* "Passcode" may be referred to as "Passkey," "PIN code," "PIN number," or "Password."

Tip
To pair with other Bluetooth devices, repeat steps 2 to 6 for each device.

Notes
- Pairing mode of the unit is cancelled after about 5 minutes, and the Bluetooth indicator **0** flashes. If pairing mode is cancelled while performing this procedure, start over from step 3.
- The passcode of the unit is fixed as "0000." The unit cannot be paired with a Bluetooth device whose Passcode is not "0000."
- Once Bluetooth devices are paired, there is no need to pair those devices again. However, in the following case, you will need to perform the pairing procedure again.
  – The unit is paired with 10 or more devices. The unit can be paired with up to 9 Bluetooth devices. If a new device is paired after 9 devices have been paired, the device whose latest connection time is the oldest among the 9 paired devices is replaced with the new one.
- More than one device can be paired with the unit, but sound will be heard from just one of those devices.

* ▶�❚❚ 10 and VOLUME + 7 have a tactile dot.

Using the display

Checking MP3/WMA file information

Press DISPLAY 16 repeatedly while playing an MP3/WMA file on the disc/USB device.

The display changes as follows:

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

*[1] If the file does not have corresponding ID3 or WMA tag information, the file name, "NO ARTIST," and "NO ALBUM" scroll instead of the song title, artist name, and album name, respectively.
*[2] The artist name or album name will change to this in a few seconds.

Checking the free space on the USB device
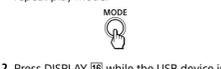
1 Press MODE 17 repeatedly to cancel folder play mode, folder repeat play mode, program play mode or program repeat play mode.

2 Press DISPLAY 16 while the USB device is stopped.

→ LIGHT SYNC
→ DISPLAY

"FREE***G"/"FREE**M" (remaining storage space on the device, in gigabytes/megabytes) appears on the display.

Checking the connected Bluetooth device name

Press DISPLAY 16 while connecting the Bluetooth device.

→ LIGHT SYNC
→ DISPLAY

Checking the radio information

Press DISPLAY 16 repeatedly while listening to the radio.

→ LIGHT SYNC
→ DISPLAY
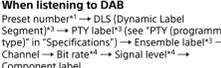
The display changes as follows:

When listening to FM
Preset number*[1] → Station name*[2] → PTY label*[3] (see "PTY (programme type)" in "Specifications") → Radio text*[3] → Frequency

When listening to DAB
Preset number*[1] → DLS (Dynamic Label Segment)*[3] → PTY label*[3] (see "PTY (programme type)" in "Specifications") → Ensemble label*[3] → Channel → Bit rate*[4] → Signal level*[4] → Component label

Press ENTER 3 to return to the normal display.

*[1] A preset number is displayed only when you are listening to the preset radio station.
*[2] "NO PS," "NO PTY" or "NO TEXT" may appear if the RDS broadcast is not properly received or the station does not provide RDS services.
*[3] "NO DLS," "NO PTY" or "NOSIGNAL" may appear if no DLS, no PTY label or no ensemble label is received.
*[4] "---" may appear if no bit rate or no signal is received.

About RDS features

What is RDS?
Introduced by the European Broadcasting Union (EBU) in 1987, the Radio Data System (RDS) allows information such as station names to be received via the 57 kHz sub-carrier signal of FM broadcasts. However, the availability of RDS data varies depending on the area. It therefore may not always be possible to receive RDS information.

Using the RDS functions
The unit supports the following RDS functions.

RDS function	Description
Station name display	Displays the station name you are listening to.
PTY (programme type)	Displays the programme type of the received programme.
RT (radio text)	Displays free-form textual information.

Notes
• The RDS functions will not be activated if the FM station being received is not transmitting RDS data. They may also not work properly in areas where RDS transmissions are in the experimental stage.
• If the radio signal being received is weak, it may take time to receive the RDS data.

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 MODE 17 repeatedly.

→ MODE

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 (SHUF)
↓
Program play (PGM)
↓
Program repeat play (⟲, PGM)

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

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

Tip
Resume Play is available when using Program Play mode in the USB function. Press ▶❚❚ 10 after you have stopped Program Play by pressing ■ 13. Program Play starts from the point where you stopped.

To display programmed track/file information

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

Press DISPLAY 16 repeatedly and the display changes as follows:

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

* "---:--" appears for MP3/WMA discs and USB devices.

To cancel Program Play

Press ■ 13 to stop playback, and then press MODE 17 repeatedly until "PGM" disappears from the display.

To delete all tracks/files in the current program

Stop playback, and then press ■ 13. "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 RADIO DAB/FM 2 repeatedly to select "FM."

→ SCAN
→ RADIO DAB/FM

2 Hold down RADIO DAB/FM·SCAN 2 until "AUTO" flashes on the display.

→ SCAN
→ RADIO DAB/FM

AUTO

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

→ ENTER

Presetting radio stations manually

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

1 Press RADIO DAB/FM 2 repeatedly to select a band.

→ SCAN
→ RADIO DAB/FM

2 Tune to the desired station.

3 Hold down MANUAL PRESET 13 until "DAB-xx" or "FM-xx" flashes on the display.
(Example: DAB)

→ MANUAL PRESET
→ ▶❚❚

DAB 01

4 Press PRESET + or − 11 until the preset number for the station you want flashes on the display.

→ PRESET +
→ ❚◀◀ ▶▶❚

5 Press ENTER 3 to store the station.
If another station is already assigned to the selected preset number, that station is replaced by the new one.

→ ENTER

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 RADIO DAB/FM 2 repeatedly to select a band.

→ SCAN
→ RADIO DAB/FM

2 Press PRESET + or − 11 to select a stored preset number for the desired radio station.

→ PRESET +
→ ❚◀◀ ▶▶❚

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.

To AUDIO IN jack

To component (e.g.,portable digital music player)

Audio connection cable (not supplied)

1 Connect the AUDIO IN jack 14 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 2 and start playing sound on the connected component.

→ AUDIO IN

The sound from the connected component is output from the speakers.

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

Notes
• If connected to the monaural output jack of a digital music player, sound may not be emitted through the right speaker of the unit.
• If connected to the line out jack of a digital music player, distortion may occur. If the sound is distorted, connect to the headphones jack instead.
• If connected to the headphones jack of a digital music player, increase the volume of the digital music player, and then adjust the volume of the unit.

Playing tracks/files repeatedly (Repeat Play)

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

1 Press CD 2 or USB 2 to turn on the CD or USB function.

→ CD
→ MEMORY SELECT
→ USB

2 Proceed as follows.

To repeat	Do this
A single track/file	1 Press MODE 17 repeatedly until "⟲ 1" appears. 2 Press ❚◀◀ or ▶▶❚ 11 to select a track/file that you want to repeat. When you want to specify a folder that contains MP3/WMA files, press ☐(Folder) + or − 4 first to select a folder, and then press ❚◀◀ or ▶▶❚ 11 to select a file. 3 Press ▶❚❚ 10 to start Repeat Play.
All tracks/files	1 Press MODE 17 repeatedly until "⟲" appears. 2 Press ▶❚❚ 10 to start Repeat Play.
A selected folder on an MP3/WMA disc or USB device	1 Press MODE 17 repeatedly until "☐" (Folder) and "⟲" appear. 2 Select a folder by pressing ☐(Folder) + or − 4. 3 Press ▶❚❚ 10 to start Repeat Play.
Programmed tracks/files	1 Program tracks/files (see "Creating your own program (Program Play)"). 2 Press MODE 17 until "PGM" and "⟲" appear on the display. 3 Press ▶❚❚ 10 to start Repeat Play.

To cancel Repeat Play

Press ■ 13 to stop playback, and then press MODE 17 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 or MP3/WMA files on a CD-R/CD-RW disc or on a USB device in random order.

1 Press CD 2 or USB 2 to turn on the CD or USB function.

→ CD
→ MEMORY SELECT
→ USB

2 Press MODE 17 repeatedly until "SHUF" appears on the display.

→ MODE

3 Press ▶❚❚ 10 to start Shuffle Play.

→ MANUAL PRESET
→ ▶❚❚

To cancel Shuffle Play

Press ■ 13 to stop playback, and then press MODE 17 repeatedly until "SHUF" disappears from the display.

Tips
• During Shuffle Play, you cannot select the previous track/file by pressing ❚◀◀ 11.
• Resume Play is available when using Shuffle Play mode in the USB function. Press ▶❚❚ 10 after you have stopped Shuffle Play by pressing ■ 13. Shuffle Play starts from the point where you stopped.

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 2 or USB 2 to turn on the CD or USB function.

→ CD
→ MEMORY SELECT
→ USB

2 Press MODE 17 repeatedly until "PGM" appears on the display.

→ MODE

3 Press ❚◀◀ or ▶▶❚ 11 to select a track/file.
When you want to specify a folder that contains MP3/WMA files, press ☐(Folder) + or − 4 first to select a folder, and then press ❚◀◀ or ▶▶❚ 11 to select a file.

→ PRESET +
→ ❚◀◀ ▶▶❚

4 Press ENTER 3.

→ ENTER

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 ▶❚❚ 10 to start Program Play.
The created program remains available until you open the CD compartment, remove the USB device or turn off the power. To play the same program again, press ▶❚❚ 10.

→ MANUAL PRESET
→ ▶❚❚

Compatible devices

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.

To select a memory on the device for playback or recording

If the USB device has more than one memory (for example, an internal memory and a memory card), you can select which memory to use and then start playback or recording. Make sure to select a memory before starting playback or recording as you cannot select a memory during operation.

1 Connect the USB device to the ← (USB) port 12.

2 Press USB 2 to turn on the USB function.

3 Press USB-MEMORY SELECT 2 until "SELECT?" appears on the display.

→ MEMORY SELECT
→ USB

4 Press ENTER 3.

5 Press ❚◀◀ or ▶▶❚ 11 repeatedly to select a memory number.
The memory name appears. The name will be displayed in various ways, depending on the specifications of the USB device.
If only one memory can be selected, proceed to step 6.

6 Press ENTER 3.

Notes on the USB device
• Operation is not always guaranteed, even if the USB devices meet the compatibility requirements.
• 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.
• The playback order on this unit may differ from the playback order on a connected USB device.
• This unit may not support all the functions provided with a connected USB device.
• This unit cannot be used to charge USB devices.

Compatible Bluetooth devices

Compatibility requirements for the devices are as follows. Before using a device with this unit, check that it meets the requirements.
• Devices must conform to Bluetooth Standard version 3.0.
• Devices must support A2DP (Advanced Audio Distribution Profile) and AVRCP (Audio/Video Remote Control Profile).
• NFC capability (required only when using the NFC pairing function of the unit).

What is Bluetooth wireless technology?

Bluetooth wireless technology is a short-range wireless technology that enables wireless data communication between digital devices, such as a computer and digital camera. Bluetooth wireless technology operates within a range of about 10 m.
Connecting two devices as necessary is common, but some devices can be connected to multiple devices at the same time.
You do not need to use a cable for connection, nor is it necessary for the devices to face one another, such is the case with infrared technology. For example, you can use such a device in a bag or pocket.
Bluetooth standard is an international standard supported by thousands of companies all over the world, and employed by various companies worldwide.

Communication system and compatible Bluetooth profiles of the unit

Profile is standardization of the function for each Bluetooth device specification. The unit supports the following Bluetooth version and profile:
Communication System:
    Bluetooth Specification version 3.0
Compatible Bluetooth Profiles:
    —A2DP (Advanced Audio Distribution Profile): Transmitting or receiving audio content of high-quality.
    —AVRCP (Audio Video Remote Control Profile): Controlling A/V equipment; pausing, stopping, or starting playback, etc.

Maximum communication range

Use Bluetooth devices within 10 m (line of sight) of the unit.
Maximum communication range may shorten under the following conditions.
—There is an obstacle such as a person, metal, or wall between the unit and Bluetooth device.
—A wireless LAN device is in use near the unit.
—A microwave oven is in use near the unit.
—A device that generates electromagnetic radiation is in use near the unit.
—The unit is placed on a shelf made of steel.

The unit

Steel cabinet

■ Optimal performance
■ Limited performance

Interference from other devices

Because Bluetooth devices and wireless LAN (IEEE802.11b/g/n) use the same frequency, microwave interference may occur and resulting in communication speed deterioration, noise, or invalid connection if the unit is used near a wireless LAN device. In such a case, perform the following.
—Use the unit at least 10 m away from the wireless LAN device.
—If the unit is used within 10 m of a wireless LAN device, turn off the wireless LAN device.
—Use the Bluetooth device as close to the unit as possible.

Interference to other devices

Microwaves emitting from a Bluetooth device may affect the operation of electronic medical devices. Turn off the unit and other Bluetooth devices in the following locations, as it may cause an accident.
—where inflammable gas is present, in a hospital, train, airplane, or a gas station
—near automatic doors or a fire alarm

Notes
• To be able to use the Bluetooth function, the Bluetooth device to be connected requires the same profile as the unit's.
Note also that even if the same profile exists, devices may vary in function depending on their specifications.
• Due to the characteristic of Bluetooth wireless technology, the sound played on the unit is slightly delayed from the sound played on the Bluetooth device during listening to the music.
• This unit supports security capabilities that comply with the Bluetooth standard to provide a secure connection when the Bluetooth wireless technology is used, but security may not be enough depending on the setting. Be careful when communicating using Bluetooth wireless technology.
• We do not take any responsibility for the leakage of information during Bluetooth communication.
• A device featuring the Bluetooth function is required to conform to the Bluetooth standard specified by Bluetooth SIG, and be authenticated. Even if the connected device conforms to the above mentioned Bluetooth standard, some devices may not be connected or work correctly, depending on the features or specifications of the device.
• Noise or sound skips may occur depending on the Bluetooth device connected with the unit, the communication environment or the usage environment.

Discs that this unit CAN play

• Audio CD (CD-DA* 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
• Before playing, clean the CD with a cleaning cloth. Wipe the CD from the center out. If there are scratches, dirt or fingerprints on the CD, 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, or 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.

Messages

DATA ERROR: An audio file is corrupted.
ERASE ERROR: Erase of the audio files or folders failed.
FATAL ERROR: The USB device was removed during recording or erase operation, and may have been damaged.
FULL: You tried to program more than 25 tracks or files (steps).
LOW BATTERY: The batteries are almost exhausted.
NO BT: Bluetooth connection is not established.
NO DEV: No USB device is connected or the connected USB device has been removed.
NO STEP: All of the programmed tracks/files have been erased.
NO TRK: There are no playable MP3/WMA files on the USB device.
NOSIGNAL: There is no supported DAB/DAB+ broadcast in your country or region or you have lost the reception of the selected DAB/DAB+ broadcast.
NOT IN USED: You tried to perform a specific operation under conditions in which that operation is prohibited.
NOT SET: There is no stored preset station.
NOT SUPPORT: An unsupported USB device is connected.
OFF-AIR: The selected station or service is currently not broadcasting.
PROTECT: The connected USB device is write-protected. Remove the USB device, and then clear the write protection, or use another USB device.
PUSH STOP: You tried to perform a specific operation that is prohibited while playing or paused. Press ■ 13 to stop playback, and then try the operation again.
REC ERROR: Recording did not start, stopped partway, or otherwise could not be performed.

General

The power does not turn on when the AC power cord is connected.
• Make sure the AC power cord is connected to the wall outlet securely.

The power does not turn on during battery operation.
• Make sure the batteries are inserted correctly.

"LOW" and "BATTERY" are displayed alternately and the unit turns off automatically.
• Replace all the batteries with new ones.

The unit enters standby mode unexpectedly.
• This is not a malfunction. The unit enters standby mode automatically after about 15 minutes if there is no operation or audio signal output. See "To use the power-management function."

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 and the Bluetooth device away from such devices. Devices such as mobile phones, etc., can affect Bluetooth communication.

CD/MP3/WMA player

The CD player does not play or "NO DISC" is displayed 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.
• Replace all the batteries with new ones if they are exhausted.

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.

"OVER CURRENT" appears.
• An abnormal level has been detected in the electrical current from the ← (USB) port 12. Turn off the unit and remove the USB device from the ← (USB) port 12. Make sure there is no problem with the USB device. If this message persists, 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 ← (USB) port 12.
• The connector on the USB device or the USB cable is being inserted backwards. Insert it to the ← (USB) port 12 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.

"REC ERROR" appears.
• An error occurred during recording. Turn off the unit and remove the USB device from the unit. Then check the following:
    —Check the remaining storage space on the USB device. If there is insufficient space for the recording, delete any unnecessary files or folders.
    —Check that the data to be recorded is not corrupted.
    —Check that the file format to be recorded is compatible with the unit.
    —If the message still persists, contact your nearest Sony dealer.

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 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"
• The audio files may have been created in formats other than MP3/WMA formats.
• The USB storage device uses a file system other than FAT16 or FAT32.*
• The USB storage device is partitioned. Only MP3/WMA files in the first partition can be played.
• Playback is possible up to 8 directory levels.
• The number of folders on the device exceeds 255 (including the "ROOT" folder).
• The number of files on the device exceeds 5,000.
• The number of files per folder exceeds 999.
• 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.

Bluetooth device

There is no sound.
• Make sure that this unit is not too far from the Bluetooth device (or smartphone), or that this unit is not receiving interference from a wireless LAN, another 2.4 GHz wireless device, or a microwave oven.
• Check that the Bluetooth connection was completed properly between this unit and the Bluetooth device (or smartphone).
• Perform pairing again (See "Making a wireless connection with Bluetooth devices").
• Keep away from metal objects or surfaces.
• Make sure that the Bluetooth function is activated on the Bluetooth device (or smartphone).

The sound skips or the correspondence distance is short.
• If a device that generates electromagnetic radiation, such as a wireless LAN, other Bluetooth device(s), or a microwave oven is nearby, move away if possible. Or use the device and the unit away from such sources.
• Remove any obstacle between this unit and the device or move the device and the unit away from the obstacle.
• Locate this unit and the device as close to each other as possible.
• Re-position this unit.
• Try using the Bluetooth device or smartphone in another position.

A connection cannot be established.
• Depending on the device to be connected, it may require some time to start communication.
• Perform pairing again (See "Making a wireless connection with Bluetooth devices").
• Check that the Bluetooth device is compatible with this unit. For the latest information on compatible Bluetooth devices, check the information on the website. The URL is listed under "Compatible Bluetooth devices".

Pairing fails.
• Bring the Bluetooth device closer to the unit.
• Delete the model name of this unit from the Bluetooth device and perform pairing again (See "Making a wireless connection with Bluetooth devices").
• Check that the Bluetooth device is compatible with this unit. For the latest information on compatible Bluetooth devices, check the information on the website. The URL is listed under "Compatible Bluetooth devices".

Pairing using the NFC function fails.
• Try pairing manually (See "Making a wireless connection with Bluetooth devices"). Some NFC-compatible smartphones may not be paired using the NFC function of this unit, depending on the features or specifications of the device.
• Relaunch "NFC Easy Connect" and move the smartphone slowly over the N mark 18.
• Check that the smartphone meets the compatibility requirements (See "Compatible smartphones").

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 aerial 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 − 4 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.

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

Bluetooth section

Communication System
    Bluetooth Specification Version 3.0
Output
    Bluetooth Specification Power Class 2
Maximum communication range
    Line of sight approx. 10 m*[1]
Frequency band
    2.4 GHz band (2.4000 GHz – 2.4835 GHz)
Modulation method
    FHSS
Supported Bluetooth Profiles*[2]
    A2DP (Advanced Audio Distribution Profile)
    AVRCP*[3] (Audio/Video Remote Control Profile)
Supported codec*[4]
    SBC (Subband Codec)
    *[1] The actual range will vary depending on factors such as obstacles between devices, magnetic fields around a microwave oven, static electricity, reception sensitivity, aerial performance, operating system, application software, etc.
    *[2] Bluetooth standard profiles provide the specifications for Bluetooth communication between devices.
    *[3] Some operations may not be available depending on the device.
    *[4] Codec: Audio signal compression and conversion format

Radio section

Frequency range
    DAB (Band-III): 174.928 MHz – 239.200 MHz
    FM: 87.5 MHz – 108 MHz (50 kHz step)
Intermediate frequency
    DAB (Band-III): 2.048 MHz
    FM: 2.198 MHz

DAB (Band-III) frequency table (MHz)

Channel	Frequency	Channel	Frequency
5A	174.928	10N	210.096
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	11N	217.088
6C	185.360	11B	218.640
6D	187.072	11C	220.352
7A	188.928	11D	222.064
7B	190.640	12A	223.936
7C	192.352	12N	224.096
7D	194.064	12B	225.648
8A	195.936	12C	227.360
8B	197.648	12D	229.072
8C	199.360	13A	230.784
8D	201.072	13B	232.496
9A	202.928	13C	234.208
9B	204.640	13D	235.776
9C	206.352	13E	237.488
9D	208.064	13F	239.200
10A	209.936		

Aerial
    Telescopic antenna

Input

AUDIO IN
    Stereo mini jack
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
Sampling frequencies
    MP3 (MPEG 1 Audio Layer-3): 32/44.1/48 kHz
    WMA: 32/44.1/48 kHz

General

Speaker
    Full range, 8 cm dia., 3.2 Ω, cone type (2)
Power output
    2.3 W + 2.3 W (at 3.2 Ω, 10% harmonic distortion)
Power requirements
    230 V AC, 50 Hz (AC power supply)
    9 V DC (6 R14 (size C) batteries)
Power consumption
    AC 16 W
Power consumption (during standby mode)
    Less than AC 0.9 W
Power consumption (during Bluetooth standby mode)
    Less than AC 1.8 W
Battery Life*[1], *[2]
    Playback of CD
        Approx. 7.5 hours
    Playback of USB device
        Approx. 7 hours (at 100 mA load)
        Approx. 3.5 hours (at 500 mA load)
    DAB reception
        Approx. 9 hours
    FM reception
        Approx. 9 hours
    Bluetooth
        Approx. 10 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. 380 mm × 158 mm × 235 mm (W/H/D) (incl. projecting parts)
Mass
    Approx. 3.3 kg (incl. batteries)

Supplied accessories

AC power cord (1)
Protecting sheet (1)

Design and specifications are subject to change without notice.

PTY (programme type)

This indication indicates services or RDS data in programme type, such as News or Sports, transmitted in the DAB or RDS data. If the received service or station does not transmit the programme type, "NONE" 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/meteorology	WEATHER
Finance/Business	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