SONY

4-596-224-11(1)

Personal Audio System

Operating Instructions

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ZS-PE60

WARNING

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

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

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

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

The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off. Do not install the appliance in a confined space, such as a bookcase or built-in cabinet

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

Do not expose the batteries (battery pack or batteries installed) to excessive heat such as sunshine, fire or the like for a long time. WARNING, Battery may explode if mistreated. Do not recharge, disassemble or dispose of in fire. The nameplate is located on the bottom exterior.

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type. The use of optical instruments with this product will increase eye hazard.

As the laser beam used in the CD player section is harmful to the eyes, do not attempt to disassemble the casing

Refer servicing to qualified personnel only.

CAUTION



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 Tokvo. 108-0075 Japan. Inquiries related to product compliance based on European Union legislation shall be addressed to the authorized representative Sony Belgium, bijkantoor van Sony Europe Limited Da Vincilaan 7-D1, 1935 Zaventem, Belgium. For any service or guarantee matters, please refer to the addresses provided in the separate service or guarantee documents.

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

' This symbol on the product, the battery or on the packaging indicates that the product and the battery shall not be treated as household waste. On certain

batteries this symbol might be used in combination with a chemical symbol. The chemical symbols for mercury (Hg) or lead (Pb) are added if the battery contains more than 0.0005% mercury or 0.004% lead. By ensuring these

products and batteries are disposed of correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling. The recycling of the materials will help to conserve natural resources.

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

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

- Playing back music sources on discs or USB
- devices

component

• Listening to radio stations • Listening to sound from a connected optional

2 To a wall outlet 1 To AC IN Insert all the way into A AC power cord (supplied) the AC IN jack. в Bottom Alwavs insert the side of the battery first.

The batteries are oriented in different directions

Insert them in the correct orientation as illustrated inside the battery compartment.

Notes

- When using the unit on batteries and the battery power drops to a certain level, the OPR/BATT 2 indicator dims or power of the unit may go off during playback. If this happens, replace all the batteries with new ones. Once the **OPR/BATT** (2) indicator becomes dim, you can continue to use the radio and AUDIO IN functions for some time, but you can no longer use the CD or USB functions. Before you replace the batteries, be sure to remove any CDs, disconnect any USB devices or optional components
- from the unit, and store the FM antenna 19 in its original position if extended. • To use the unit on batteries, disconnect the AC power cord A from the wall outlet and the unit (in the order of $2 \rightarrow 0$).
- Settings stored in the unit's memory are saved even when the AC power cord is disconnected or the batteries are removed
- In standby mode with the AC power cord connected, "STANDBY" appears on the display.
- Do not mix an old battery with a new one or mix different type of batteries.

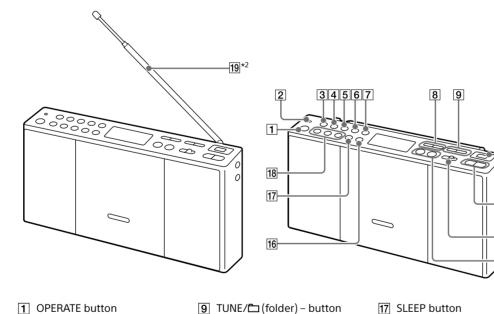
To use the power-management function (European models only) This unit is equipped with an automatic standby function. With this function, the unit enters standby mode

automatically after about 15 minutes if there is no operation or audio signal output. To turn the standby function on or off, press VOLUME – 13 while holding down TUNE/C + 9 when the unit is in standby mode with the AC power cord connected. The automatic standby function setting cannot be changed when the unit is turned on. Each time you press the buttons, "STANDBY" flashes for 2 seconds and "ON" or "OFF" appears on the display.

Notes

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

Basic Operations



- 2 OPR/BATT indicator
- 3 USB button
- 4 CD button
- 5 FM/AM button 6 AUDIO IN button
- 7 PLAY/FM MODE button
- 8 I d (go backward) PRESET – button
- ►► (go forward)/ PRESET + button

Before using the unit

To turn the power on or off

using the direct power-on function.

(below).

Press **OPERATE** 1. You can also turn on the power

of this unit using the direct power-on function

In this manual, operations are mainly explained

To use the direct power-on function

Press CD 4, USB 3, FM/AM 5, AUDIO IN 6 or

FAVORITE RADIO STATION (-SET) 18 while the unit

is turned off. The power turns on with the relevant

unavailable when the unit is powered by batteries only and the AC power cord is not connected.

function selected. The direct power-on function is

TUNE/ Carl (folder) + button 10 ¥ (USB) port

- 11 AUDIO IN jack
- **12** Ω (headphones) jack
- 13 VOLUME button VOLUME + button*1
- 14 CD OPEN switch
- 15 ►II (play/pause) button*

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

18 FAVORITE RADIO STATION

*1 **II** 15, VOLUME + 13 have a tactile

*2 Extend the FM antenna 19 only when

listening to FM radio (for AM radio, a

ferrite bar antenna is built into the

(-SET) buttons

19 FM antenna*²

dot.

unit).

To adjust the volume

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

To listen through headphones

Connect headphones to the Ω (headphones) jack

To protect your hearing, avoid listening at excessive volume level when listening through headphones.

- appears on the display.

- Other operations

То Pause playba

Stop playback

Select a folder

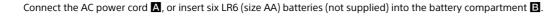
on an MP3/WMA disc Select a track file

Find a point in track/file

stopped.

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

(stop) button 16 DISPLAY (ENTER) button



Power Sources

















arrow 4.

Playing a music disc

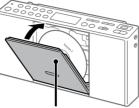
1 Press CD 4 to turn on the CD function. 2 Slide the CD OPEN — 14 to the right, and place a disc in the CD compartment with the label side facing forward.

Press the center area of the disc gently

until it snaps into place.

Label side facing forward.

3 Close the CD compartment door.



Push the upper right area of the compartment door securely

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

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



Total number of tracks



(Total number of folders and total number of files



Total number Total number of files

4 Press ►II 15 to start playback.



Playing time*2,3

*1 If MP3/WMA files are present only in the root directory, "001" appears on the display. *2 If the playing time is longer than 100 minutes, "--:--'

³ By pressing **DISPLAY 16**, playback screen changes between showing the function name, the playing time and the current track number (or showing the current

folder and file numbers (MP3/WMA)).

	Do this
ck	Press ►II 15. To return to playback, press the button again.

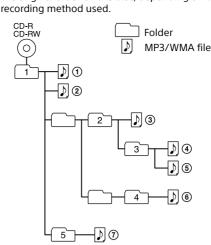
Press 🔳 15. When you press ► 🛙 15 after playback is stopped, playback will start from the beginning of the track/file you were last playing (Resume Play).

Press TUNE/ 🗖 + or – 🧐

 / Press I ← or ► I ⑧. You can skip tracks/files one by one. n a Hold down I ← or ► I ⑧ during playback, and release the button at the desired point. When locating a point while paused, press ► II 15 to start playback after the desired point is found. 		
during playback, and release the button at the desired point. When locating a point while paused, press ►II 15 to start playback after the desired point	/	
	n a	during playback, and release the button at the desired point. When locating a point while paused, press ►II 15 to start playback after the desired point

To cancel the Resume Play, press 🔳 15 while the CD is

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



Notes on MP3/WMA discs

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

Listening to music on a USB device

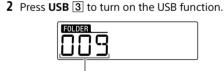
You can listen to audio files stored on a USB device (a digital music player or USB storage media). Audio files in MP3 and WMA formats* can be played on this unit.

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

Compatible USB devices

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

- Compliance with USB 2.0 (Full Speed)
- Supports Mass Storage mode³
- * 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 $\frac{1}{2}$ (USB) port 10.



Total number of folders

3 Press ►II 15 to start playback.



Playing time*1, 2

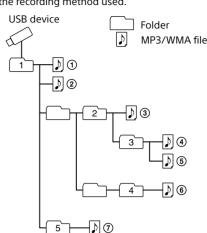
*1 If the playing time is longer than 100 minutes, "--:--" appears on the display. *2 By pressing **DISPLAY** 16, playback screen changes

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

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

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

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



Notes on the USB device

• It may take a long time before playback starts when: - the folder structure is complex

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

To use the unit as a battery charger

You can use the unit as a battery charger for USB devices that have a rechargeable function when the unit is turned on

Be sure to turn on the USB function beforehand. Charging is only available when the USB function is turned on

Note

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

Note on charging the battery (European models

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

Listening to the radio

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



Extend the FM antenna 19 and adjust its length and angle for optimum reception

Notes

• When adjusting the FM antenna 19, be sure to hold it by the bottom part. The antenna may be damaged if you move it with excessive force while holding it by the upper part.



Reorient the unit

itself for

optimum

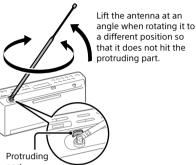
ferrite bar

reception (a

antenna is built

into the unit)

• When adjusting the FM antenna 19 by rotating it as illustrated below, do not rotate the antenna furthe once it hits the protruding part on the unit. Doing so may damage the antenna.



3 Hold down TUNE/ + or – 9 until the

The unit automatically scans the radio

to change the frequency step by step.

lights up on the display.

band and kHz for the AM band.

To improve radio reception

frequency digits begin to change on the

frequencies and stops when it finds a clear

If you cannot tune to a station using automatic

When an FM stereo broadcast is received, "ST"

• The unit of frequency of tuned stations is MHz for the FM

• If the stereo FM reception is noisy, press PLAY/FM MODE 7

repeatedly until "Mono" appears on the display. You will

Use the radio in a place where radio signals can be

easily received such as near a window. Also, adjust

the antenna (FM) or reorient the unit itself (AM) for

Areas with good

Between buildinas

Nearby

mobile

phones

On steel desks

or tables

electrical

appliances

reception

Far from windows, Near windows, etc

If the reception problem still persists, try changing

lose the stereo effect, but the reception will be improved.

tuning mode, press TUNE/ + or - 9 repeatedly

AM

display.

station

good reception

 \bigcirc

reception:

the installation location.

Avoid places such as the following:

etc.

Areas with poor

Tips

Presetting stations to FAVORITE **RADIO STATION buttons**

You can preset up to three favorite stations to FAVORITE RADIO STATION (-SET) 18 buttons. Assign one FM or AM program for each button.

- 1 Press FM/AM 5 repeatedly to turn on the radio function and select the "FM" or "AM" band
- **2** Tune to the station you want to preset. **3** Press and hold the desired **FAVORITE RADIO** STATION (-SET) 18 button until you hear a beep.
- The tuned station is preset to the selected button of FAVORITE RADIO STATION (-SET) 18 and the same number as that of the button will light up on the display

(Example: Presetting FM 87.50 MHz to number 1)



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 STATION** buttons

Press the desired FAVORITE RADIO STATION (-SET) 18 button.

To avoid changing the preset accidentally, press the button briefly. If you hold down the button, the preset on the button will be replaced by the currently tuned station

Other Operations

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.

If you try to set or change the play mode during playback or pause status of a disc or USB device "PUSH STOP" appears on the display. Press 🔳 15 after the message appears

Press PLAY/FM MODE 7 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 (\backsim , PGM)

* These functions are available only when playing MP3/ WMA files on an MP3/WMA disc or 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 on a USB device in normal and program play modes.

1 Press CD 4 or USB 3 to turn on the CD or USB function

2 Proceed as follows.

To repeat	Do this
A single track/ file	 Press PLAY/FM MODE 7 repeatedly until " 1" appears Press I 1 or ▶ 1 8 to select a track/file that you want to repeat. When you want to specify a folder that contains MP3/WMA files, press TUNE/ 1 or 19 first to select a folder, and then press I 1 0 1 1 1
	3 Press ►II 15.
All tracks/files	 Press PLAY/FM MODE 7 repeatedly until "⊊" appears. Press ►II 15.
A selected folder on an MP3/WMA disc or USB device	 Press PLAY/FM MODE 7 repeatedly until " appear. Select a folder by pressing
	TUNE/ + or – 9.

3 Press ►II 15.

To repeat Do this Programmed 1 Program tracks/files (see "Creating your own program tracks/files (Program Play)") 2 Press PLAY/FM MODE 7

repeatedly until "PGM" and "🖛" appear 3 Press ►II 15

To cancel Repeat Play

Press **1**5 to stop playback, and then press PLAY/FM MODE 7 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 on a USB device in random order

- 1 Press CD 4 or USB 3 to turn on the CD or USB function
- 2 Press PLAY/FM MODE 7 repeatedly until "
- appears on the display. 3 Press ►II 15 to start Shuffle Play.

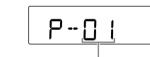
To cancel Shuffle Play Press 🔳 15 to stop playback, and then press

- PLAY/FM MODE 7 repeatedly until "" disappears from the display. Tips
- During Shuffle Play, you cannot select the previous track/ file by pressing I 🖛 🔞. If you press ►II 15 after playback stopped by pressing
 15 during Shuffle Play, playback will start from the next
- andomly selected track (Resume Play is unavailable during Shuffle Play)

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 4 or USB 3 to turn on the CD or
- USB function 2 Press PLAY/FM MODE 7 repeatedly until
- "PGM" appears on the display. **3** Press I or ►►I **8** to select a track/file. When you want to specify a folder that contains MP3/WMA files, press **TUNE/** + or – 9 first to select a folder, and then press \bowtie or \bowtie 8 to select a file.
- 4 Press ENTER 16 The track/file is programmed and the program step number appears (Example: audio CD)



Step numbe **5** Repeat steps 3 and 4 to program additional

- tracks/files. 6 Press ►II 15 to start Program Play. To play the same program again, press **>II** 15. Note that the created program is cleared in the
- following cases: - When you open the CD compartment - When you disconnect the USB device.
- When you turn off the power of the unit.
- If you try to program 26 tracks/files or more, "FULL" flashes

To display programmed track/file

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

- **Before starting the Program Play**
 - Press DISPLAY 16 repeatedly and the display changes as
 - Total number of steps \longleftrightarrow Last programmed track/file number
 - After Program Play stopped by pressing Press DISPLAY 16 repeatedly and the display changes as follows

Current step number ↔ Current track/file number

To cancel Program Play

Press 🔳 1 to stop playback, and then press PLAY/FM MODE 7 repeatedly until "PGM" disappears from the display.

To delete all tracks/files in the current program

Stop playback, and then press ■ 15. "noSTEP" appears and you can create a new program, following the procedure "Creating your own program (Program Play)."

Presetting radio stations

You can preset up to 30 radio stations, 20 for FM and 10 for AM. 1 Press FM/AM 5 repeatedly to turn on the

You can store radio stations in the unit's memory.

Precautions

Discs that this unit CAN play

• CD-R/CD-RW that contains MP3/WMA files and is

^{*1} CD-DA is the abbreviation for Compact Disc Digital Audio.

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.

CD-R/CD-RW other than those recorded in audio

CD format or formats conforming to ISO 9660

• CD-R/CD-RW of poor recording quality, CD-R/

• CD-R/CD-RW that is unfinalized or finalized

• DVD-ROM, DVD-R/DVD-RW, DVD+R/DVD+RW,

• Do not expose the CD to direct sunlight or heat

parked in direct sunlight as there can be a

Do not stick paper or a sticker on the CD, or

• A DualDisc is a two sided disc product which

Music discs encoded with copyright

• 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

among those discs, there are some that do not

• 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

• Should any solid object or liquid fall into the unit,

personnel before operating it any further.

• Discs with non-standard shapes (e.g., heart,

square, star) cannot be played on this unit.

unplug the unit, and have it checked by qualified

Attempting to do so may damage the unit. Do not

• For AC operation, use the supplied AC power cord;

• Unplug the unit from the wall outlet if it is not to

• When not using the batteries, remove them to

avoid damage that can be caused by battery

• Do not leave the unit in a location near heat

subject to the direct rays of the sun.

prolong the life of its components.

sources, in a place subject to direct sunlight.

• Do not place the unit near the appliances that

The heat from those appliances may deform the

enclosure and cause the system to malfunction.

• Do not place anything within 10 mm of the rear of

unobstructed for the unit to operate properly and

keep personal credit cards using magnetic coding

or spring-wound watches away from the unit to

the cabinet. The ventilation openings must be

• Since a strong magnet is used for the speakers,

prevent possible damage from the magnet.

• 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.

• Do not leave the CD compartment open to avoid

• Make sure not to splash water on the unit. This

• Do not place the unit on an inclined or unstable

te neat, such as lighting fixtures of neaters

excessive dust or mechanical shock, or in a car

be used for an extended period of time.

conform to the CD standard and may not be

by some record companies. Please be aware that

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

sources such as hot air ducts, or leave it in a car

considerable rise in temperature inside the car.

• Clean the CD with a cleaning cloth if

the disc is dirty. Wipe the disc from

dirt or fingerprints on the disc, a

tracking error may occur.

• Do not use solvents such as

spray intended for vinyl LPs.

scratch the surface of the CD.

product is not guaranteed.

protection technologies

playable by this product.

On safety

use such discs.

On power sources

leakage or corrosion

On placement

surface

On operation

On handling the unit

unit is not waterproof.

dust and debris contamination.

do not use any other cord.

Note on DualDiscs

After playing, store the CD in its case

benzine, thinner, commercially

available cleaners or anti-static

the center out. If there are scratches,

CD-RW with scratches or that is dirty, or CD-R/

CD-RW recorded using an incompatible recording

Level 1/Level 2 or Romeo, Joliet and UDF

It is a recording standard used for audio CDs.

Discs that this unit CANNOT play

• Audio CD (CD-DA*1 tracks)

finalized*2 correctly.

device

incorrectly

DVD-RAM

Notes on discs

• BD-ROM, BD-R/BD-RE

- radio function and select the "FM" or "AM"
- band 2 Hold down FM/AM 5 until "AUTO" flashes on the display.



3 Press ENTER 16 to store the station. The stations are stored in memory from lower frequencies to higher ones.

If a station cannot be preset

- automatically You need to preset a station with a weak signal
- manually.
- 1 Press FM/AM 5 repeatedly to select a band. **2** Tune to the desired station
- 3 Hold down ENTER 16 until "FM-xx" or "AM-xx"
- flashes on the display. (Example: FM)



- 4 Press **PRESET +** or **8** until the preset number for the station you want flashes on the display
- **5** Press **ENTER 16** to store the station. If another station is already assigned to the selected preset number, that station is replaced by the new one
- 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

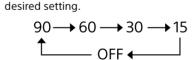
- 1 Press FM/AM 5 repeatedly to turn on the radio function and select the "FM" or "AM" band.
- 2 Press **PRESET +** or **8** to select a stored preset number for the desired radio station.
- By repeatedly pressing **DISPLAY** 16 while listening to the

radio, the radio information changes between showing the preset number and the frequency. The preset number display automatically returns to the frequency display after 2 seconds have elapsed

Using the Sleep Timer

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

- 1 Press SLEEP 17
- The default setting ("90") appears and the "SLEEP" indicator lights up on the display. 2 Press SLEEP 17 repeatedly to select the



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.

You can check the time left until the unit turns off by pressing SLEEP 17 again after setting the sleep timer.

Connecting optional components

component, such as a TV, portable digital music

Be sure to turn off the power of each component

For details, refer to the instruction manual of the

output jack of the portable digital music

player, TV or other component using an audio

3 Press **AUDIO IN 6** and start playing sound on

The sound from the connected component is

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

1 Connect the AUDIO IN jack 11 to the line

connection cable (not supplied).

2 Turn the connected component on.

the connected component.

output from the speakers.

plugs on the other end.

You can enjoy the sound from an optional

player, through the speakers of this unit.

before making any connections.

component to be connected.

On cleaning the cabinet

benzine

General

speakers.

unit.

• 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

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

Troubleshooting

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** 2 indicator 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

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 from the

• This is not a malfunction. You may hear a small humming noise from the radio depending on the status of the power supply

CD/MP3/WMA player

The CD player does not play even when a

CD is in place. • Place the CD with the label side facing forward. 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.

• 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 when the **OPR/BATT** 2 indicator dims.

"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

 A blank disc may be set in the CD compartment. • An unplayable disc (DVD, BD, etc.) is loaded. Replace the disc

 No disc is set in the CD compartment. Set a disc. • The CD may be placed upside down. Place the CD with the label side facing forward.

• No audio files recorded in supported formats, or a file to be played back has an unsupported file

The sound drops out.

extension.

damaged.

blower.

usual.

plavback.

USB device

unit.

structure

 Reduce the volume • Clean the CD, or replace it if the CD is badly

• Place the unit in a location free from vibrations. Clean the lens with a commercially available

• 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

The following discs take a longer time to start

- A disc recorded with a complicated tree

- A disc that has many folders, files or non-MP3/ WMA files.

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

Playback is not possible.

- The sound skips. - There is noise. - The sound output is distorted.

"Err01" appears. • An unsupported USB device is connected and playback or pause operation is performed.

"Err02" appears and the unit turns off automatically.

• An abnormal level has been detected in the electrical current from the 🖞 (USB) port 10. In this case, remove the USB device from the Ψ (USB) port 10 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.

"Err C13" appears.

- An unexpected error occurs in the connected device.
- An unknown device is connected.

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 10. The connector on the USB device or the USB cable

is being inserted backwards. Insert it to the Ψ (USB) port 10 in the correct direction "READ" is displayed for an extended time,

or it takes a long time before playback

- The reading process can take a long time in the following cases - There are many folders or files on the USB
- 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 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 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.
- For FM reception, extend the antenna to its full length, and reorient it for best FM reception. For AM reception, reorient the unit itself to find the
- 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.

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

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.)

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• MPEG Layer-3 audio coding technology and

patents licensed from Fraunhofer IIS and

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marks are not specified.

Thomson

Number of channels

Frequency response 20 Hz - 20,000 Hz +1/-2 dB Wow and flutter

- Below measurable limit Supported audio format
- MP3 (MPEG 1 Audio Layer-3) WMA (Windows Media Audio

Radio section

Frequency range Models for Europe FM: 87.5 MHz - 108 MHz (50 kHz step)

- AM: 531 kHz 1,602 kHz (9 kHz step) Korean mode
- FM: 87.5 MHz 108 MHz (100 kHz step) AM: 531 kHz - 1,602 kHz (9 kHz step)

Type A, maximum current 500 mA, USB 2.0 Full Speed

Intermediate frequency FM: 225 kHz AM: 177.5 kHz

Stereo mini jack

FM: Telescopic antenna

AM: Built-in ferrite bar antenna

ones) stereo mini jack

For 16 Ω – 32 Ω impedance headphones

Full range, 5 cm dia., 8 Ω , cone type (2)

230 V AC, 50 Hz (AC power supply

9 V DC (six LR6 (size AA) batteries

220 V AC, 60 Hz (AC power supply)

9 V DC (six LR6 (size AA) batteries

Approx. 3 hours (at 100 mA load)

Approx. 0.8 hours (at 500 mA load)

*² When using Sony alkaline batteries

*1 Measured by Sony standards. The actual battery life

Approx. 318 mm × 156 mm × 70 mm (W/H/D) (incl.

Design and specifications are subject to change without

may vary depending on the circumstances of the unit

0.8 W (during standby mode)

1.1 W + 1.1 W (at 8 Ω , 10% harmonic distortion)

Antennas

AUDIO IN

Output

General

Power outpu

Power requirements

Korean model

Power consumption

Playback of CD

FM reception

Approx, 2.5 hours

Approx. 15 hours

projecting parts)

Supplied accessories

AC power cord (1)

Quantity

Mass

Unit:

Playback of USB device

or operating conditions

Approx. 1.6 kg (incl. batteries)

Operating Instructions (1) (this manual)

Warranty Card (1) (for European models only)

Battery Life*1, *2

Models for Europe

compatible