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CFD-S70

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.

Power Sources

To a wall outlet

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.

CAUTION



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

• When the batteries are almost depleted, the alert message "LO-BATT" will flash. When this message appears, replace all the

- Cleared settings: Volume level, radio band (FM/AM) and frequency, FM mode setting (stereo/monaural), CD play mode,

- Stored settings: Power management on/off setting (European models only) and preset radio stations registered using the

• Before you replace the batteries, be sure to remove any CDs or tapes, disconnect any optional components from the unit, and

This unit is equipped with an automatic standby function. With this function, the unit enters standby mode

To turn standby mode on or off, press **VOLUME** + 6 while holding down **PLAY MODE** 10. Each time you press the

• When the AC power cord is disconnected or the batteries are removed, settings stored in the unit's memory will either be

Always insert the side of the battery first.

To AC IN

- Gru | | |

AC power cord

(supplied)

Press down on the battery

the direction of the arrow 2.

MEGA BASS setting (on/off), and last used function

compartment cover at 1 and slide it in

batteries with new ones. Also see "Checking the remaining battery power."

store the FM telescopic antenna 17 in its original position if extended.

• Do not mix an old battery with a new one or mix different type of batteries.

• The automatic standby function is not available with the FM/AM function • The automatic standby function becomes invalid when the Sleep Timer is set

auto/manual presetting function or FAVORITE RADIO STATIONS (-SET) 12 buttons

• To use the unit on batteries, disconnect the AC power cord from the unit and the wall outlet.

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

automatically after about 15 minutes if there is no operation or audio signal output.

buttons, "STANDBY" flashes for 2 seconds and "ON" or "OFF" appears on the display.

• 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.

RISK OF ELECTRIC SHOCK. DO NOT OPEN.

The batteries

are oriented

Insert them in

orientation as

in different

the correct

illustrated

directions

Risk of explosion if the battery is replaced by an incorrect type

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. EU Importer: Sony Europe B.V. Inquiries to the EU Importer or related to product compliance in Europe should be sent to the manufacturer's authorized representative, Sony Belgium, bijkantoor van Sony Europe B.V., Da Vincilaan 7-D1, 1930 Zaventem, Belgium.

Hereby, Sony Corporation declares that this equipment is in compliance with Directive 2014/53/ EU. The full text of the EU declaration of conformity is available at the following internet address: http://www.compliance.sony.de/



The validity of the CE marking is restricted to only those countries where it is legally enforced, mainly in the countries EEA (European Economic Area) and Switzerland.

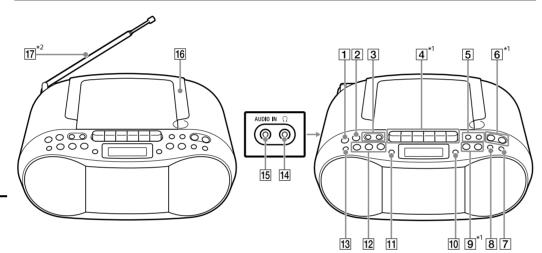
Disposal of waste batteries and electrical and electronic equipment (applicable in the **European Union and other**

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 symbol for lead (Pb) is added if the battery contains more than 0.004% lead. By ensuring that these products and batteries are disposed of correctly, you will help to prevent potentially negative consequences for the environment and human health which could 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 appropriate 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 appropriate collection point for the recycling of waste batteries. For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product or battery.

Basic Operations



*1 CD PLAY/PAUSE (►II) 9, VOLUME + 6 and 4 have a tactile dot.

*2 Extend the FM antenna া only when listening to FM radio (for AM radio, a ferrite bar antenna is built into the

Before using the unit

To turn the power on or off Press (b) (power) 1

To adjust the volume

Press VOLUME + or - 6.

The volume level of this unit is adjustable in steps If you want to adjust the volume level continuously,

hold the button down, and release it at the desired

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.

To turn the bass enhancement function on or off

Press **MEGA BASS** 7. When you press the button, the function will either switch on ("MEGA BASS" lights up) or off "MEGA BASS" disappears). By default, this function

Playing a music disc

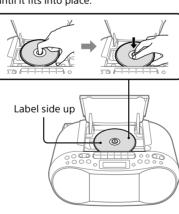
- 1 Press 🖰 🔳 to turn on the power of the unit.
- 2 Insert the tip of your finger into the opening



tab to open the CD compartment cover.



3 Place a disc in the CD compartment and then close the compartment cover.



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

Audio CD

(Total number of tracks and total playing time





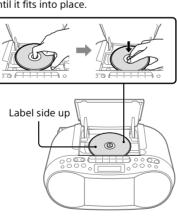
Total playing time

MP3 disc

Total number Total number of folders*1 of files

Push down on the center of the disc

until it fits into place



- 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 files on the disc, it may take a long time for play to begin or for the next MP3 file to start to
- We recommend that non-MP3 files or unnecessary folders are excluded when creating MP3 discs. • During playback, audio files other than MP3 files are
- skipped even if those files are included in a folder. • This system can only play MP3 files that have a file
- extension of ".mp3". 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.

Notes on MP3 discs

- This unit cannot play audio files on a disc in the following
- When the total number of audio files exceeds 413. - When the total number of folders on a single disc
- exceeds 99 (including the "ROOT" folder)
- When the directory level (folder depths) exceeds 9 (including the "ROOT" folder).

Listening to the radio

- 1 Press (1) 1 to turn on the power of the unit.
- **2** Adjust the antenna for optimum reception.

4 Press CD PLAY/PAUSE (►II) 9 to start

00:08

Playing time*2,3

*1 If MP3 files are present only in the root directory, "001"

*2 If the playing time is longer than 100 minutes, "--:--"

*3 By pressing **DISPLAY/ENTER** 11, the playback screen

changes between showing playing time and the current track number (or showing the current folder

To switch to the CD function from other

If a previously played disc has been set, playback

will start automatically. Press **STOP** (■) 9 to stop

Do this

button again

and then press

Find a point in a Hold down I◀◀ or ▶▶ 5

point is found.

Example of folder structure and playing order

follows. However, the playing order may differ from

the original order on the disc, depending on the

The playing order of the folders and files is as

Resume Play is cancelled in the following cases

- When you open the CD compartment cover

- When you turn off the power.

recording method used.

 \odot

Press CD PLAY/PAUSE (►II) 9.

To return to playback, press the

Press **STOP** (■) **9**. If you press

CD PLAY/PAUSE (►II) 9 after

beginning of the track/file you

were last playing (Resume Play).

playback has been stopped,

playback will start from the

If you want to start playback

from the first track/file on the

disc, press **STOP** (■) 9 twice,

Press ► or ► 5. You can

during playback, and release the

skip tracks/files one by one.

button at the desired point.

When locating a point while

CD PLAY/PAUSE (►II) 9 to

start playback after the desired

MP3 file

CD PLAY/PAUSE (►II) 9.

Press TUNE/ + or - 3.

playback.

functions

appears on the display

appears on the display

and file numbers (MP3)).

Press CD PLAY/PAUSE (►II) 9.

playback if necessary.

Other operations

Pause playback

Stop playback

Select a folder

on an MP3 disc

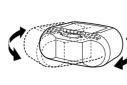
Select a track/



antenna 17 and adjust its length and angle for optimum

Extend the telescopic

AM



itself for optimum reception (a ferrite bar antenna is buil

Reorient the unit

- **3** Press **FM/AM** 2 repeatedly to select the "FM" or "AM" band.
- 4 Hold down TUNE/ + or 3 until the frequency digits begin to change on the display.

The unit automatically scans the radio frequencies and stops when it finds a clear

If you cannot tune to a station using automatic tuning mode, press TUNE/ + or - 3 repeatedly to change the frequency step by step When an FM stereo broadcast is received, "ST" lights up on the display.

• The unit of frequency of tuned stations is MHz for the FM band and kHz for the AM band.

• If the stereo FM reception is noisy, press PLAY MODE 10 repeatedly until "Mono" appears on the display. You will lose the stereo effect, but the reception will be improved. To improve radio reception

Use the radio in a place where radio signals can be

reception:

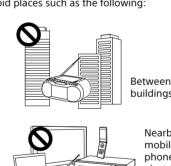
easily received such as near a window. Also, adjust the antenna (FM) or reorient the unit itself (AM) for good reception



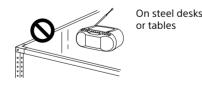
Far from windows, Near windows, etc. If the reception problem still persists, try changing

Avoid places such as the following

reception







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

- 1 Press 🖰 🔳 to turn on the power of the unit.
- 2 Press FM/AM 2 repeatedly to select the "FM" or "AM" band
- 3 Hold down FM/AM 2 until "AUTO" flashes on the display.



4 Press **DISPLAY/ENTER** 11 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 2 repeatedly to select a band. **2** Tune to the desired station
- 3 Hold down DISPLAY/ENTER 11 until "FM-xx" or "AM-xx" flashes on the display. (Example: FM)



4 Press **PRESET** + or – 5 until the preset number for the station you want flashes on the display **5** Press **DISPLAY/ENTER** 11 to store the station.

If another station is already assigned to the

selected preset number, that station is replaced by the new one If you want to cancel presetting the station, press **STOP** (**■**) **9**.

- 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 1 to turn on the power of the unit. 2 Press FM/AM 2 repeatedly to select the "FM"
- or "AM" band. **3** Press **PRESET +** or **– 5** to select a stored
- preset number for the desired radio station.

By repeatedly pressing **DISPLAY/ENTER** 11 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.

Presetting stations to FAVORITE **RADIO STATIONS buttons**

You can preset up to three favorite stations to the three FAVORITE RADIO STATIONS (-SET) 12 buttons. Assign one FM or AM program for each

- 1 Press FM/AM 2 repeatedly to select the band "FM" or "AM."
- **2** Tune to the station you want to preset. **3** Press and hold the desired **FAVORITE RADIO STATIONS (–SET)** 12 until you hear a beep. The tuned station is preset to the selected button of FAVORITE RADIO STATIONS (-SET) 12 and the same number as that of the button will light up

(Example: Presetting FM 87.50 MHz to number 1)



To change the preset station Repeat steps 1 to 3.

on the display.

The preset station on the button will be replaced by the new one.

Listening to preset stations with **FAVORITE RADIO STATIONS**

Press the desired FAVORITE RADIO STATIONS (-SET) 12 button.

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

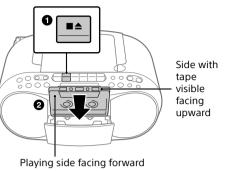
Playing a tape

Check the following items before starting

(metal) tapes are not supported.

- Use Type I (normal) tapes only. Type II (high position), Type III (ferro-chrome) and Type IV
- If there is tape slack, rewind the slack using a pencil to avoid damaging the tape or the unit.

1 Press ■ ▲ 4 (1), insert a cassette tape into the cassette tape compartment (2) and then close the compartment cover.



2 Press 4 to start playback.

Other operations	
То	Do this
Stop playback	Press ■▲ 4.
Pause playback	Press II 4. To resume playback press the button again.
Fast-forward or rewind	Press ◀◀ or ▶▶ ◀.
Eject the	Press ■▲ 4.

Notes

- Do not turn off the power during the tape playback. Doing so may cause malfunction. Make sure to stop playback before turning off the power.
- If the tape is wound to the beginning or end and ◀◀ or ▶▶ 4 is not released, "STOP TAPE" will flash on the display. Make sure to press ■▲ 4 to release the button. "STOP TAPE" starts flashing 8 minutes after a fast-forward (44 4) or rewind (4) operation. After about 10 minutes have elapsed, the unit turns off automatically
- When "STOP TAPE" flashes, always check the ◀◀ or ▶▶ 4 button and make sure to release the button.
- When the time set on the Sleep Timer has elapsed during playback, the "SLEEP" indicator will start flashing but the unit will not turn off. The unit will turn off after the end of

Recording on a tape

Check the following items before starting

- Use Type I (normal) tapes only. Type II (high position), Type III (ferro-chrome) and Type IV (metal) tapes are not supported.
- has not been removed. If the tab has been removed, cover the broken tab using adhesive

• Make sure that the overwrite protection tab

- Be sure to connect the AC power cord to avoid an unexpected recording failure.
- **1** Press \bigcirc **1** to turn on the power of the unit, and then prepare the source you want to
- record. ■ To record CD-DA tracks or MP3 files on

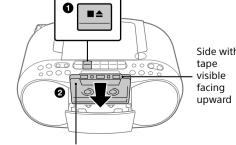
Place a disc in the CD compartment. Make sure not to start playback. See "Playing a music

■ To record a radio program Tune to the desired station. See "Listening to

■ To record sound from a connected optional component

Press **AUDIO IN 8** and connect an optional component such as a TV, portable digital music player, etc. to the AUDIO IN jack 15, and then start playback.

2 Press ■ ▲ 4 (1), insert a cassette tape into the cassette tape compartment (2) and then close the compartment cover.



Recording side facing forward

- **3** Press **4** to start recording (the play button
- 4 will depress automatically at the same
- When recording from a disc
- Playback starts automatically and recording of all the tracks/files on the disc proceeds from the first track/file. When the tape reaches the end, recording stops automatically.
- When recording a radio program or sound from a connected optional

Recording continues until the tape reaches the end.

When the time set on the Sleep Timer has elapsed during recording, the "SLEEP" indicator will start flashing but the unit will not turn off. The unit will turn off after the end of

• Adjusting the volume or the audio emphasis will not affect the recording level.

• If the AM program makes whistling sound after you have press • 4 in step 3, press PLAY MODE 10 repeatedly to select the position of ISS (Interference Suppress Switch) that may decreases the noise.

Other operations	
То	Do this
Stop recording	Press ■▲ 4.
Pause recording	Press II 4 . To resume recording, press the button again.

To record starting from a specific track/file Press \blacktriangleleft or $\triangleright \triangleright \mid 5 \mid$ to select the track/file on the disc, then press • 4 Playback starts automatically, and recording of the

selected track/file and the following tracks/files proceeds until the tape reaches the end. To record from partway through the current

CD-DA track or MP3 file Press CD PLAY/PAUSE (►II) 9 to pause playback

To record favorite CD-DA tracks or MP3 files

Create a program (see "Creating your own program (Program Play)"), then press ● 4 to start recording.

To erase recorded cassette tapes

over the previous recording.

- **1** Press \bigcirc **1** to turn on the power of the unit. 2 Insert a recorded tape into the cassette tape
- compartment. **3** Press **● 4**.
- Erasing process starts, and previous recording is overwritten with silent data.

Other Operations

Selecting the CD play mode

You can select the CD play mode while a disc is stopped. Check the following items before selecting the

CD play mode. If you try to set or change the play mode during playback, "PUSH STOP" will appear.

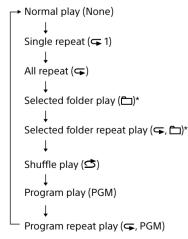
- When a disc is playing, be sure to stop playback by pressing **STOP** (\blacksquare) 9.
- If you have switched to the CD function from another function by pressing CD PLAY/PAUSE (►II) 9, press **STOP** (■) 9 once to stop

Press PLAY MODE 10 repeatedly.

playback.



Each time you press the button, the indication



* These functions are available only when playing MP3 files on an MP3 disc.

The selected CD play mode is cleared in the following

- The batteries are removed.
- The AC power cord is unplugged.
- When you open the CD compartment cover. When you turn off the power of the unit.

Playing tracks/files repeatedly (Repeat Play) You can set the unit to repeatedly play CD-DA tracks

on an audio CD, MP3 files on a CD-R/CD-RW disc, in normal and program play modes

- 1 Press (1) 1 to turn on the power of the unit,
- and place a disc in the CD compartment. **2** Proceed as follows

To repeat	Do this
A single track/ file	Press PLAY MODE 10 repeatedly until "☐ 1" appea Press I ☐ or ►► 5 to sele a track/file that you want to repeat. When you want to specify a folder that contains MP3 files, press TUNE/☐ + c ☐ 3 first to select a folder, a then press I ☐ or ►► 5 to

3 Press CD PLAY/PAUSE (►II)

All tracks/files

repeatedly until "G" appears 2 Press CD PLAY/PAUSE (►II) A selected folder 1 Press **PLAY MODE** 10 on an MP3 disc repeatedly until "☐" and "⊊" appear

2 Select a folder by pressing TUNE/ + or - 3 3 Press CD PLAY/PAUSE (►II)

1 Press PLAY MODE 10

1 Program tracks/files (see Programmed "Creating your own program tracks/files (Program Play)"). 2 Press PLAY MODE 10 until "PGM" and "←" appear on the where you want to start recording, then press \bullet 4 display 3 Press CD PLAY/PAUSE (►II)

To cancel Repeat Play

Press **STOP** (■) 9 to stop playback, and then press **PLAY MODE** 10 repeatedly until " \subsetneq " (or " \subsetneq 1") To erase a cassette tape, you need to record silence 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 files on a CD-R/CD-RW disc in random order.

- **1** Press \bigcirc **1** to turn on the power of the unit, and place a disc in the CD compartment.
- 2 Press PLAY MODE 10 repeatedly until "△" appears on the display.
- **3** Press CD PLAY/PAUSE (►II) 9 to start Shuffle Play.

To cancel Shuffle Play

Press **STOP** (\blacksquare) \bigcirc to stop playback, and then press PLAY MODE 10 repeatedly until "" disappears from the display

During Shuffle Play, you cannot select the previous track/file by pressing ► 5.

Creating your own program (Program Play)

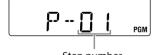
You can arrange the playing order of up to 25 tracks/files on a disc.

- **1** Press \bigcirc **1** to turn on the power of the unit, and place a disc in the CD compartment.
- 2 Press PLAY MODE 10 repeatedly until "PGM" appears on the display. **3** Press **◄** or **▶ 1 5** to select a track/file.
- When you want to specify a folder that contains MP3 files, press **TUNE**/ + or - 3 first to select a

4 Press **DISPLAY/ENTER** 11.

The track/file is programmed and the program

(Example: audio CD)



Step number

5 Repeat steps 3 and 4 to program additional tracks/files

6 Press CD PLAY/PAUSE (►II) 9 to start Program Play. To play the same program again, press

CD PLAY/PAUSE (►II) 9. Note that the created program is cleared in the

following cases: - When you open the CD compartment cover.

- When you turn off the power of the unit in the CD function.

If you try to program 26 tracks/files or more, "FULL" flashes

After creating your own program, you can check information about programmed tracks/files. Press **STOP** (■) 9 to stop playback, and then press

DISPLAY/ENTER 11 repeatedly. The display changes Total number of steps ← Last programmed track/

file number

To cancel Program Play

To display programmed track/file

information

Press **STOP** (■) 9 to stop playback, and then press **PLAY MODE** 10 repeatedly until "PGM" disappears from the display.

To delete all tracks/files in the current

Stop playback, and then press **STOP** (\blacksquare) 9. 'noSTEP" appears and you can create a new program, following the procedure "Creating your own program (Program Play)."

Using the Sleep Timer

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

1 Press SLEEP 13.

The default setting ("90") appears and the "SLEEP" indicator lights up on the display.

2 Press SLEEP 13 repeatedly to select the desired setting 90min → 60min → 30min → 15min

OFF ← Each time you press the button, the duration (in

minutes) changes on the display, and the

selected setting is confirmed automatically after

about 4 seconds. To cancel the Sleep Timer

Press **SLEEP** 13 repeatedly to select "OFF" or turn off

- The "SLEEP" indicator will flash once every 8 seconds while the Sleep Timer is activated.
- The "SLEEP" indicator will start flashing on the display about 1 minute before the unit turns off.
- You can check the time left until the unit turns off by pressing SLEEP 13 again after setting the Sleep Timer However, be sure not to perform this operation while the "SLEEP" indicator is flashing (flashing starts 1 minute before the unit turns off). If you perform this operation during this time, the Sleep Timer will be canceled instead of displaying the time remaining.
- When the set time has elapsed during a tape function operation (playing/recording/erasing), the "SLEEP" indicator will start flashing but the unit will not turn off. The unit will turn off after the operation ends.
- ■▲ 4 after the unit is turned off when a fast-forward or
- rewind operation is performed in the tape function. Be sure to turn off the power of the optional component connected to the AUDIO IN jack [15] when using the Sleep Timer in the audio in function. The Sleep Timer does not turn off the component power

Connecting optional components

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

- 1 Connect the AUDIO IN jack 15 to the line output jack of the portable digital music player, TV or other component using an audio connection cable (not supplied).
- 2 Turn the connected component on **3** Press **AUDIO IN 8** and start playing sound on the connected component. The sound from the connected component is

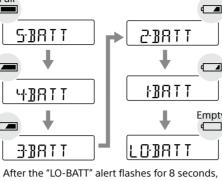
output from the speakers. To connect the unit to a TV or video recorder/ player, use an extension cable (not supplied) with a stereo-mini jack on one end and two phono plugs on the other end.

Checking the remaining battery power

When using the unit on battery power, you can check how much battery power remains.

Battery levels and remaining battery

The remaining battery power is displayed in 5 levels as shown below (battery icons are for illustrative purposes only). The higher the number, the more battery power remains



the unit will turn off automatically To check the battery level, perform the following.

■ When using the CD or FM/AM function Press **DISPLAY/ENTER** 11 repeatedly.

■ When using the tape or audio in function Press DISPLAY/ENTER 11 once.

About the battery alert message

When the battery power drops to a certain level, the message "LO-BATT" will flash for 8 seconds and then the unit power will go off automatically. Replace all the batteries with new ones when this message appears.



If you turn the unit on again without replacing the batteries after "LO-BATT" appears, you may be able to use some function such as the tuner for a short period of time, but the following issues may occur. Replace the batteries with new ones when "LO-BATT" appears

- The unit turns on but then turns off after "LO-BATT"
- flashes for 8 seconds.
- The unit will not turn on.

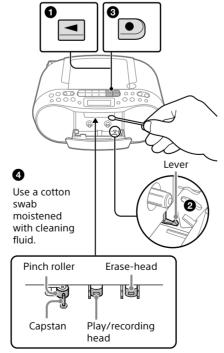
Cleaning the tape heads and tape path

Failure to clean the tape heads can cause degraded sound quality or inability of the unit to play or record tapes. Clean the capstan, pinch roller, play/recording head, and erase-head after every 10 hours of use using a commercially available cleaning kit. Clean their surfaces as shown below using a cotton swab moistened with cleaning fluid included in the kit.

■ To clean the pinch roller, capstan and play/recording head

Press $\blacktriangleleft 4 (1)$ and then perform cleaning (4).

■ To clean the erase-head Press ● 4 (3) while holding down the lever (2) with your finger, and then perform cleaning (4).



Precautions

Discs that this unit CAN play

- Audio CD (CD-DA*1 tracks)
- CD-R/CD-RW discs on which CD-DA tracks are recorded in CD-DA format.
- CD-R/CD-RW that contains MP3 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
- BD-ROM, BD-R/BD-RE
- DVD-ROM, DVD-R/DVD-RW, DVD+R/DVD+RW, DVD-RAM

Notes on discs

- Clean the CD with a cleaning cloth if the disc is dirty. Wipe the disc from the center out. If there are scratches, dirt or fingerprints on the disc, a tracking error may occur.
- Do not use solvents such as benzine, thinner, commercially available cleaners or anti-station spray intended for vinyl LPs.
- 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

Do not expose the CD to direct sunlight or heat.

scratch the surface of the CD. After playing, store the CD in its case

Note on DualDiscs

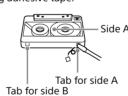
• A DualDisc is a two sided disc product which mates DVD recorded material on one side with digital audio material on the other side. However, since the audio material side does not conform to the Compact Disc (CD) standard, playback on this product is not guaranteed.

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.

Notes on cassettes

• Remove the overwrite protection tab from side A or B to prevent accidental recording. If you want to reuse the tape for recording, cover the broken tab using adhesive tape



• The use of a cassette tape with more than 90 minutes of play time is not recommended except for long, continuous recording or playback.

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
- unplug the unit, and have it checked by gualified 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

Should any solid object or liquid fall into the unit.

On power sources

On placement

- 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.
- Do not leave the unit in a location near heat sources, in a place subject to direct sunlight, excessive dust or mechanical shock, or in a car subject to the direct rays of the sun.
- generate heat, such as lighting fixtures or heaters. The heat from those appliances may deform the enclosure and cause the system to malfunction. • Do not place the unit on an inclined or unstable

• Do not place the unit near the appliances that

• 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.

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 wait about an hour for the moisture to evaporate.

- Do not leave the CD compartment open to avoid dust and debris contamination.
- prevent it from dropping.



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.

General

"LO-BATT" flashing message appears on the display.

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
- matching the polarities. There is no sound.

speakers.

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

Unplug the headphones when listening through

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

The CD player does not play even when a

- CD is in place. • Place the CD with the label side up.
- Take out the CD and leave the CD compartment open for about an hour to dry moisture
- The CD-R/CD-RW is blank or unfinalized. There are no playable MP3 files on the disc

"noCD" appears when the disc is loaded.

- disc with the label side up. • An unplayable disc (DVD, BD, etc.) is loaded. Replace the disc.

• The CD may be placed upside down. Place the

"00" appears on the display when the disc is loaded. • No audio files recorded in supported formats, or a

"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

The sound drops out. • 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

On operation

• If the unit is brought directly from a cold to a operate properly. In this case, remove the CD and

On handling the unit

- When carrying the unit, hold it by the handle 16 to



Troubleshooting

• Replace all the batteries with new ones. This message appears when using the unit on batteries and the battery power drops to a certain

- inserted into the AC IN jack securely. Check if the batteries are inserted correctly.
- Make sure the appropriate function is selected for the music or sound source you want to listen to.

A small humming noise is heard from the

status of the power supply.

CD player

- Clean the CD.
- condensation.

CD-RW, recording device or application software

• The CD may have a reading problem. Replace the

• There is a problem with the quality of the CD-R/

- file to be played back has an unsupported file
- A blank disc may be set in the CD compartment.

- 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

• The sound may drop out or noise may be heard

is a problem with the recording device or

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

length, and reorient it for best FM reception. For

application software.

usual.

Radio

playback

structure.

when using a poor quality CD-R/CD-RW or if there

- 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

the TV.

Tape The tape does not move when you press an

with an indoor antenna, move the unit away from

operation button. Close the cassette compartment cover securely.

Noise is heard during playback. This is not a malfunction. You may hear background noise ("hissing noise"), mechanical

The ● 4 button does not function or the

tape does not start playback or recording. • Make sure that the overwrite protection tab has

noise, or noise due to electromagnetic

interference in the playback.

not been removed.

Poor or distorted playback, recording or erasing quality. • Clean the capstan, pinch roller, play/recording head and erase-head. See "Cleaning the tape

Demagnetize the heads using a commercially

heads and tape path" for details.

available tape head demagnetizer.

• Use Type I (normal) tapes only. Type II (high position), Type III (ferro-chrome) and Type IV (metal) tapes are not supported.

After trying the suggested remedies, if the problem

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,

persists, unplug the AC power cord or remove all the

Specifications

consult your nearest Sony dealer.

CD player section Compact disc digital audio system Laser diode properties Emission duration: Continuou 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

Frequency response 20 Hz – 20,000 Hz +1/-2 dB

MP3 (MPEG 1 Audio Layer-3)

FM: 87.5 MHz - 108 MHz (50 kHz step)

Wow and flutter Below measurable limit Supported audio format

Radio section

AM: 45 kHz

Antennas

AM: 531 kHz - 1,602 kHz (9 kHz step) Intermediate frequency FM: 128 kHz

FM: Telescopic antenna

Tape deck section 4-track 2-channel, stereo Fast winding time

AM: Built-in ferrite bar antenna

Type I (normal): 80 Hz - 10,000 Hz AUDIO IN

Output

Frequency response

Stereo mini jack

(headphones) stereo mini jack For 16 Ω – 32 Ω impedance headphones

Full range, 8 cm dia., 4 Ω , cone type (2)

Approx. 150 s (sec.) with Sony cassette C-60

1.7 W + 1.7 W (at 4 Ω , 10% harmonic distortion) Models for Europe and Oceania

9 V DC (6 R14 (size C) batteries) Other models 220 V - 240 V AC, 50/60 Hz (AC power supply) 9 V DC (6 R14 (size C) batteries

230 V AC, 50 Hz (AC power supply)

- Approx. 15 hours (at a volume level of around 23) *1 Measured by Sony standards. The actual battery life

Approx. 10 hours (at a volume level of around 23)

- may vary depending on the circumstances of the unit
- *2 When using Sony alkaline batteries. Approx. 310 mm \times 140 mm \times 212 mm (W/H/D) (incl.
- projecting parts)
- Approx. 1.9 kg (excl. batteries)
- Approx. 2.3 kg (incl. batteries Quantity

marks are not specified.

Supplied accessories

Design and specifications are subject to change without

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- Thomson. • Other trademarks and trade names are those of their respective owners. In this manual, [™] and [®]

Power consumption

Playback of CD

Recording FM programs

Approx. 23 hours

Playback of tape

Less than 1 W (during standby mode) Battery Life*1, *2