## **Operating Instructions**

NOTE: The images shown here are for illustrative purposes only and may be subject to change.

The cables mentioned in this guide is not supplied with your unit

Do not install the appliance in a confined space,

Excessive sound pressure from earphones and

Do not expose the batteries (battery pack or

batteries installed) to excessive heat such as

The nameplate is located on the bottom exterior.

DO NOT OPEN.

RISK OF ELECTRIC SHOCK.

The batteries

are oriented

in different

directions.

the correct

illustrated

Insert them in

orientation as

sunshine, fire or the like for a long time.

CAUTION

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

- 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

Always insert the side of the battery first.

To AC IN

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

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

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.

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

such as a bookcase or built-in cabinet.

headphones can cause hearing loss.

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

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

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

For customers in Europe and Oceania

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

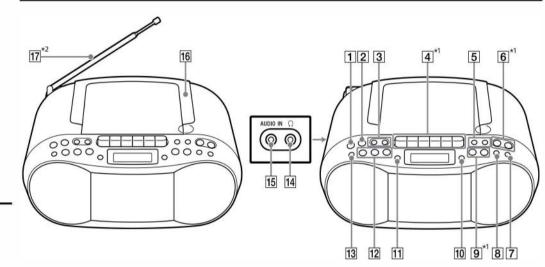
data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only. To ensure that the battery and the electrical and electronic equipment will be treated properly, hand over these products at end-of-life to the applicable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

In case of products that for safety, performance or

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

- Playing back music sources on discs or tapes
- Listening to radio stations
- Recording on a tape
- Listening to sound from a connected optional component

# **Basic Operations**



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

 $^{*2}$  Extend the FM antenna  $\overline{17}$  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 🖰 (power) 🚹.

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  $\Omega$  (headphones) jack

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

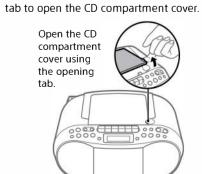
# To turn the bass enhancement function

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 ( 1 to turn on the power of the unit. **2** Insert the tip of your finger into the opening





# **Audio CD**

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

The disc is loaded and the disc information

**3** Place a disc in the CD compartment and then

Push down on the center of the disc

close the compartment cover

until it fits into place



4850

Total playing time

MP3 disc

Total number of folders\*1 of files 4 Press CD PLAY/PAUSE(►II) 9 to start



Playing time\*2,3

 $^{\star 1}$  If MP3 files are present only in the root directory, "001" appears on the display.

 $^{\star 2}$  If the playing time is longer than 100 minutes, "--:--" appears on the display

\*3 By pressing **DISPLAY/ENTER** [11], the playback screen changes between showing playing time and the current track number (or showing the current folder and file numbers (MP3)).

### To switch to the CD function from other functions

Press CD PLAY/PAUSE (►II) 9. If a previously played disc has been set, playback will start automatically. Press **STOP** (■) 9 to stop

## playback if necessary. Other operations

playback

Pause playback	Press CD PLAY/PAUSE (►II) 9. To return to playback, press the button again.
Stop playback	Press STOP (■) ⑨. If you press CD PLAY/PAUSE (►II) ⑨ after playback has been stopped, playback will start from the beginning of the track/file you were last playing (Resume Play) If you want to start playback from the first track/file on the

	CD PLAY/PAUSE (►II) [
Select a folder on an MP3 disc	Press TUNE/ + or - 3

and then press

Find a point in a track/file

Select a track/

Hold down I◀◀ or ▶▶ 5 during playback, and release the button at the desired point. When locating a point while paused, press CD PLAY/PAUSE (►II) 9 to

disc, press STOP (■) 9 twice,

Press **I** or **▶▶ 5**. You can

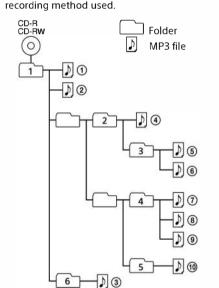
skip tracks/files one by one.

start playback after the desired point is found.

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

When you turn off the power

Example of folder structure and playing order The playing order of the folders and files is as follows. However, the playing order may differ from the original order on the disc, depending on the



## Notes on MP3 discs

extension of ".mp3".

- 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
- 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
- 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.
- 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

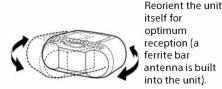
- 1 Press 🖰 🗓 to turn on the power of the unit.
- **2** Adjust the antenna for optimum reception.

# FΜ



Extend the telescopic antenna 17 and adjust its length and angle for optimum

ΑM



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



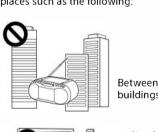
Areas with good

Near windows, etc

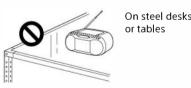
reception:

Areas with poor reception Far from windows.

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







## **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.



### If a station cannot be preset automatically

You need to preset a station with a weak signal

- 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 🖰 🚺 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 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 STATIONS** 

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

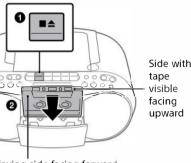
To prevent the preset from being changed by mistake, do not hold down the button. If doing so, the preset on the button will be replaced by the currently tuned station.

## Playing a tape

Check the following items before starting

- Use Type I (normal) tapes only. Type II (high position), Type III (ferro-chrome) and Type IV (metal) tapes are not supported.
- If there is tape slack, rewind the slack using a pencil to avoid damaging the tape or

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



Playing side facing forward

## Other operations

Do this Stop playback Press ■▲ 4 Pause playback Press **II 4**. To resume playback, press the button agair Fast-forward or Press  $\blacktriangleleft$  or  $\blacktriangleright$   $\blacktriangleleft$ rewind

# cassette

Eject the

• Do not turn off the power during the tape playback. Doing so may cause malfunction. Make sure to stop playback

Press ■▲ 4

- before turning off the power ▶▶ 4 is not released, "STOP TAPE" will flash on the display. Make sure to press  $\blacksquare \triangleq 4$  to release the button. STOP TAPE" starts flashing 8 minutes after a fast-forward (◄◄ [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

(metal) tapes are not supported.

- Use Type I (normal) tapes only. Type II (high position), Type III (ferro-chrome) and Type IV
- 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 🖰 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 a disc 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

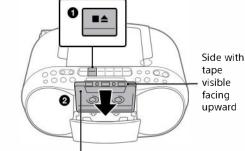
■ To record sound from a connected optional component Press AUDIO IN 8 and connect an optional

component such as a TV, portable digital

music player, etc. to the AUDIO IN jack 15, and

the radio."

then start playback. Press ■ 4 (1), insert a cassette tape into the cassette tape compartment (2) and then



close the compartment cover.

Recording side facing forward

## • 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.

• The automatic standby function becomes invalid when the Sleep Timer is set.

# cleared or kept stored. Cleared settings: Volume level, radio band (FM/AM) and frequency, FM mode setting (stereo/monaural), CD play mode,

### • When the batteries are almost depleted, the alert message "LO-BATT" will flash. When this message appears, replace all the batteries with new ones. Also see "Checking the remaining battery power. • When the AC power cord is disconnected or the batteries are removed, settings stored in the unit's memory will either be

store the FM telescopic antenna 17 in its original position if extended. • To use the unit on batteries, disconnect the AC power cord from the unit and the wall outlet. • In standby mode with the AC power cord connected, "STANDBY" appears on the display.

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 component

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 recording.

- · 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 <b>■ 4</b> .
Pause recording	Press <b>II</b> 4. To resume recording, press the button again.

### To record starting from a specific track/file Press I or ▶► 5 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.

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

on a disc

# Create a program (see "Creating your own program

To erase recorded cassette tapes

- over the previous recording.

- overwritten with silent data.

stopped. Check the following items before selecting the

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

→ Normal play (None)





\* These functions are available only when playing MP3 files

The selected CD play mode is cleared in the following

- The AC power cord is unplugged
- The batteries are removed
- 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  $\bigcirc$  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	1 Press PLAY MODE 10 repeatedly until "☐ 1" appea 2 Press I ☐ or ▶ 1 ⑤ to select a track/file that you want to repeat. When you want to specify a folder that contains MP3 files, press TUNE/☐ + o — ③ first to select a folder, at then press I ☐ or ▶ 1 ⑤ to select a file.  3 Press CD PLAY/PAUSE (▶ 11)
All tracks/files	1 Press PLAY MODE 10 repeatedly until "\$\sqrt{a}" appears

3 Press CD PLAY/PAUSE (►II)

Press **STOP** (■) 9 to stop playback, and then press

PLAY MODE 10 repeatedly until "←" (or "←1")

Playing tracks/files in random order

You can set the unit to play CD-DA tracks on an

1 Press 🖰 🔳 to turn on the power of the unit,

and place a disc in the CD compartment.

2 Press PLAY MODE 10 repeatedly until ""

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

Press **STOP** (**II**) **9** to stop playback, and then press

During Shuffle Play, you cannot select the previous track/file

PLAY MODE 10 repeatedly until "△" disappears

Creating your own program (Program

You can arrange the playing order of up to 25

1 Press (1) 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"

3 Press ◄ or ► 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

The track/file is programmed and the program

Step number

audio CD, MP3 files on a CD-R/CD-RW disc in

2 Press CD PLAY/PAUSE (►II) A selected folder 1 Press PLAY MODE 10 repeatedly until " $\Box$ " and " $\subsetneq$ " on an MP3 disc appear 2 Select a folder by pressing TUNE/ + or - 3 3 Press CD PLAY/PAUSE (►II)

To cancel Repeat Play

disappears from the display

appears on the display.

To cancel Shuffle Play

(Shuffle Play)

Play.

from the display

by pressing **◄** 5.

tracks/files on a disc.

appears on the display.

4 Press DISPLAY/ENTER 11.

(Example: audio CD)

Programmed 1 Program tracks/files (see "Creating your own program To record from partway through the current (Program Play)"). 2 Press PLAY MODE 10 until "PGM" and "←" appear on the where you want to start recording, then press • 4.

# To record favorite CD-DA tracks or MP3 files

(Program Play)"), then press  $\bullet$   $\boxed{4}$  to start recording.

# To erase a cassette tape, you need to record silence

- 1 Press 🖰 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

## Other Operations

# Selecting the CD play mode

You can select the CD play mode while a disc is

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

- another function by pressing CD PLAY/PAUSE

Press PLAY MODE 10 repeatedly.



Each time you press the button, the indication

```
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
```

– 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 on the display.

### To display programmed track/file information

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/

# To cancel Program Play

Press **STOP** (**I**) 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 program

Stop playback, and then press STOP (■) 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.



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

### Press SLEEP 13 repeatedly to select "OFF" or turn off the unit.

To cancel the Sleep Timer

- 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

check how much battery power remains.

power

battery power remains

<u> ዓያ</u>ጸ፻፻

3-BATT

Battery levels and remaining battery

The remaining battery power is displayed in 5 levels

After the "LO-BATT" alert flashes for 8 seconds.

To check the battery level, perform the following.

■ When using the CD or FM/AM function

■ When using the tape or audio in function

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

.OBRTT

If you turn the unit on again without replacing the batteries

function such as the tuner for a short period of time, but the

following issues may occur. Replace the batteries with new

- The unit turns on but then turns off after "LO-BATT"

Cleaning the tape heads and tape

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

Press 4 (1) and then perform cleaning (4).

Press ● 4 (3) while holding down the lever (2)

with your finger, and then perform cleaning (4).

Erase-head

Play/recording

MODEL: CFD-S70

(w)

moistened with cleaning fluid included in the kit.

■ To clean the pinch roller, capstan and

play/recording head

■ To clean the erase-head

4

swab

fluid.

NOTE: The images shown here are for illustrative purposes only and may be subject

The cables mentioned in this guide is not supplied with your unit.

to change

OBPN: N/A

PRINTED IN MEXICO

804107262 sc: 05-29-2019\_TAB

Use a cotton

moistened

with cleaning

Pinch roller

Capstan

after "LO-BATT" appears, you may be able to use some

ones when "LO-BATT" appears

flashes for 8 seconds

- The unit will not turn on.

path

Press DISPLAY/ENTER 11 repeatedly.

Press **DISPLAY/ENTER** 11 once.

About the battery alert message

the unit will turn off automatically.

238TT

t t R&

LOBRIT

as shown below (battery icons are for illustrative

purposes only). The higher the number, the more

When using the unit on battery power, you can

# 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.
- \*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.

It is a recording standard used for audio CDs.

# 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
- 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-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

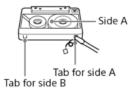
 A DualDisc is a two sided disc product which mates DVD recorded material on one side with digital audio material on the other side. However, since the audio material side does not conform to the Compact Disc (CD) standard, playback on this product is not guaranteed.

# 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.

## 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 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

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

## 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
- When not using the batteries, remove them to avoid damage that can be caused by battery leakage or corrosion

be used for an extended period of time.

### On placement . Do not leave the unit in a location near heat

- sources, in a place subject to direct sunlight, excessive dust or mechanical shock, or in a car subject to the direct rays of the sun. • Do not place the unit near the appliances that
- 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

prolong the life of its components.

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

### · 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

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

- 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

If you have any questions or problems concerning your unit, consult a service center.

## 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

- 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.

## • Unplug the headphones when listening through

The sound is noisy. Is someone using a mobile phone or other

# A small humming noise is heard from the

# CD player

# The CD player does not play even when a

- Clean the CD. • Take out the CD and leave the CD compartment open for about an hour to dry moisture
- There is a problem with the quality of the CD-R/ CD-RW, recording device or application software.
- "noCD" appears when the disc is loaded.

• The CD may have a reading problem. Replace the

• The CD may be placed upside down. Place the disc with the label side up. • An unplayable disc (DVD, BD, etc.) is loaded.

## "00" appears on the display when the disc is loaded.

- No audio files recorded in supported formats, or a file to be played back has an unsupported file
- The CD may be dirty. Clean the disc. • The CD may have scratches. Replace the disc.

# • A blank disc may be set in the CD compartment.

- · Reduce the volume.
- Clean the CD, or replace it if the CD is badly
- Clean the lens with a commercially available

If the unit is brought directly from a cold to a

## On handling the unit

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



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

### The power does not turn on.

- There is no sound. Make sure the appropriate function is selected for

the music or sound source you want to listen to.

equipment emitting radio waves near the unit? If so, move the unit away from such devices.

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

- CD is in place. • Place the CD with the label side up.
- condensation.
- The CD-R/CD-RW is blank or unfinalized. • There are no playable MP3 files on the disc.

- Replace the disc.

# "Err" appears when the disc is loaded.

• The CD may have a reading problem. Replace the

# The sound drops out.

- Place the unit in a location free from vibrations.

## Starting playback takes more time than

structure.

best reception.

the TV.

operation button.

Tape

phone away from the unit.

The TV picture is unstable.

Radio

application software.

- usual • The following discs take a longer time to start
- playback. A disc recorded with a complicated tree

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

The sound is weak or reception is poor.

For FM reception, extend the antenna to its full

• If you are in a building, listen near a window.

If a mobile phone is placed close to the unit, a

• If you are listening to an FM program near a TV

with an indoor antenna, move the unit away from

The tape does not move when you press an

Close the cassette compartment cover securely.

background noise ("hissing noise"), mechanical

The • 4 button does not function or the

tape does not start playback or recording.

Poor or distorted playback, recording or

Clean the capstan, pinch roller, play/recording

• Demagnetize the heads using a commercially

position), Type III (ferro-chrome) and Type IV

After trying the suggested remedies, if the problem

persists, unplug the AC power cord or remove all the

Laser output: Less than 44.6  $\mu W$  (This output is the value measurement at a distance of

200 mm from the objective lens surface on the optical

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,

• Use Type I (normal) tapes only. Type II (high

heads and tape path" for details.

available tape head demagnetizer.

(metal) tapes are not supported.

consult a service center.

Specifications

Laser diode properties Emission duration: Continuou

20 Hz - 20,000 Hz +1/-2 dB

MP3 (MPEG 1 Audio Layer-3)

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

Below measurable limi

Supported audio format

Intermediate frequency

FM: Telescopic antenna

4-track 2-channel, stereo

AM: Built-in ferrite bar antenna

Frequency response Type I (normal): 80 Hz – 10,000 Hz

adphones) stereo mini jack

For  $16 \Omega - 32 \Omega$  impedance headphones

Full range, 8 cm dia., 4  $\Omega$ , cone type (2)

Models for Europe and Oceania 230 V AC, 50 Hz (AC power supply)

9 V DC (6 R14 (size C) batteries)

1.7 W + 1.7 W (at 4 Ω, 10% harmonic distortion)

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

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

Compact disc digital audio system

pick-up block with 7 mm aperture.)

CD player section

Number of channels

Frequency response

Wow and flutter

Radio section

AM: 45 kHz

Tape deck section

Stereo mini jack

Recording system

Input AUDIO IN

Output

head and erase-head. See "Cleaning the tape

• Make sure that the overwrite protection tab has

Noise is heard during playback.

interference in the playback.

not been removed.

erasing quality.

• This is not a malfunction. You may hear

noise, or noise due to electromagnetic

loud noise may be heard from the unit. Keep the

length, and reorient it for best FM reception. For

AM reception, reorient the unit itself to find the

Replace all the batteries with new ones.

• Move the unit away from nearby TVs.

• The sound may drop out or noise may be heard

is a problem with the recording device or

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

- \*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

Less than 1 W (during standby mode)

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

Approx. 15 hours (at a volume level of around 23)

Approx. 310 mm × 140 mm × 212 mm (W/H/D) (incl

projecting parts)

Power consumption

Playback of CD

Recording FM programs

Approx. 23 hours

Playback of tape

Battery Life\*1, \*2

Approx. 1.9 kg (excl. batteries) Approx. 2.3 kg (incl. batteries

Supplied accessories

Design and specifications are subject to change without

- MPEG Layer-3 audio coding technology and
- marks are not specified.

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