**Power Sources** 

To a wall outlet

cleared or kept stored.

**Basic Operations** 

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

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

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

- 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

\*2 Extend the FM antenna 1 only when listening to FM radio (for AM radio, a ferrite bar antenna is built into the

Always insert the side of the battery first.

The batteries

are oriented

Insert them in

orientation as

in different

directions.

the correct

illustrated

here.

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

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

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.

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.

• In standby mode with the AC power cord connected, "STANDBY" appears on the display



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been dropped

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.

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.

# Owner's Record

The model and serial numbers are located on the bottom of the unit. Record these numbers in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. <u>CFD-S70</u> Serial No.

# Important Safety Instructions

- 1) Read these instructions 2) Keep these instructions
- Heed all warnings 4) Follow all instructions
- 5) Do not use this apparatus near water.
- ) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in

apparatus (including amplifiers) that produce

- accordance with the manufacturer's instructions. 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outle consult an electrician for replacement of the
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time

14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as powersupply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has

The following FCC/IC statement applies only to the version of this model manufactured for sale in the USA and Canada. Other versions may not comply with FCC/IC technical regulations.

For United States customers. Not applicable in Canada, including in the province of Quebec.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna. Increase the separation between the equipment
- and receiver. Connect the equipment into an outlet on a
- circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

# **CAUTION**

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment







This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of ufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

This graphical symbol is located on the bottom of

# 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 from 0 to 31.

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

### 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

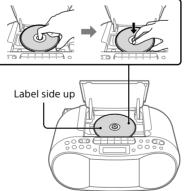
- 1 Press (1) 1 to turn on the power of the unit.
- 2 Insert the tip of your finger into the opening tab to open the CD compartment cover.



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

> Push down on the center of the disc until it fits into place.

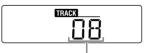
0000



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

# Audio CD

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



Total number of tracks



MP3 disc



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



Playing time\*2,3

\*1 If MP3 files are present only in the root directory, "001" appears on the display.

\*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

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

If a previously played disc has been set, playback will start automatically. Press **STOP** (■) 9 to stop playback if necessary.

### Other operations

and file numbers (MP3)).

Press CD PLAY/PAUSE (►II) 9.

То	Do this
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 disc, press STOP (■) 9 twice, and then press CD PLAY/PAUSE (►II) 9.
Select a folder	Press TUNE/ + or - 3.

on an MP3 disc Press I◀◀ or ▶▶I 5. You can Select a track/ skip tracks/files one by one.

Find a point in a Hold down I◀◀ or ▶▶I 5 during playback, and release the button at the desired point. When locating a point while

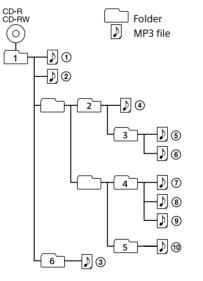
> start playback after the desired point is found.

CD PLAY/PAUSE (►II) 9 to

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 recording method used.



# Notes on MP3 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 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.
- 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).

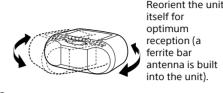
# Listening to the radio

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



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

AM



- **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

reception:

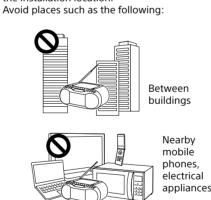
Use the radio in a place where radio signals can be easily received such as near a window. Also, adjust the antenna (FM) or reorient the unit itself (AM) for good reception

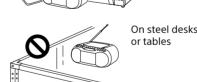


If the reception problem still persists, try changing

Far from windows, Near windows, etc.

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  $\bigcirc$  **1** 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

1 Press FM/AM 2 repeatedly to select a band. **2** Tune to the desired station.

or "AM-xx" flashes on the display. (Example: FM)



4 Press PRESET + or – 5 until the preset



- Eject the number for the station you want flashes on cassette
- **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

the display

## Listening to preset radio stations

- 1 Press (1) 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 **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 87.5 MHz to number 1)



To change the preset station Repeat steps 1 to 3 The preset station on the button will be replaced by



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

# Playing a tape

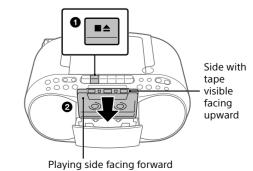
the unit.

the new one.

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





**2** Press **◄ 4** to start playback.

3 Hold down DISPLAY/ENTER [1] until "FM-xx" Other operations

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

Do this

### 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.

Press **■**▲ **4**.

 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.

( $\blacktriangleleft$  [4]) or rewind ( $\blacktriangleright\blacktriangleright$  [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.
- Make sure that the overwrite protection tab has not been removed. If the tab has been removed, cover the broken tab using adhesive
- 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 ■ 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
- Press FM/AM 2 repeatedly to select a band and tune to the desired station. See "Listening to the radio.

■ To record sound from a connected

Press **AUDIO IN** 8 and connect an optional

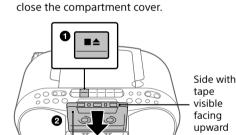
■ To record a radio program

optional component

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



3 Press ● 4 to start recording (the play button ■ 4 will depress automatically at the same

time) ■ When recording from a disc

the first track/file. When the tape reaches the end, recording stops automatically. ■ When recording a radio program or

Playback starts automatically and recording of

all the tracks/files on the disc proceeds from

sound from a connected optional component Recording continues until the tape reaches the

recording, the "SLEEP" indicator will start flashing but the unit will not turn off. The unit will turn off after the end of

When the time set on the Sleep Timer has elapsed during

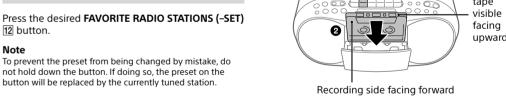
### • Adjusting the volume or the audio emphasis will not affect the recording level • If the AM program makes whistling sound after you have press • 4 in step 3, press **PLAY MODE** 10 repeatedly to

Other operations

Do this Stop recording Press ■▲ 4

that may decreases the noise.

Pause recording Press ■ 4. To resume recording, press the button again



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 where you want to start recording, then press • 4

### To record favorite CD-DA tracks or MP3 files on a disc Create a program (see "Creating your own program

(Program Play)"), then press  $\bullet$  4 to start recording. To erase recorded cassette tapes

### To erase a cassette tape, you need to record silence over the previous recording.

- 1 Press (1) 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 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 playback.

# Press PLAY MODE 10 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 ($\infty$, PGM)
```

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 Plav)

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.

on an MP3 disc

To repeat	Do this
A single track/ file	1 Press PLAY MODE 10 repeatedly until "← 1" appeal 2 Press I◄ or ►► 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 ►► 5 to select a file.  3 Press CD PLAY/PAUSE (►II) 9.
All tracks/files	1 Press <b>PLAY MODE</b> 10 repeatedly until "\$\infty" appears

A selected folder 1 Press PLAY MODE 10

appear.

2 Press CD PLAY/PAUSE (►II)

repeatedly until "" and ""

2 Select a folder by pressing

3 Press CD PLAY/PAUSE (►II)

90min → 60min → 30min → 15min

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

### Do this 1 Program tracks/files (see "Creating your own program (Program Play)") 2 Press PLAY MODE 10 until "PGM" and "←" appear on the 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  $\bigcirc$  **1** to turn on the power of the unit,

and place a disc in the CD compartment.

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

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

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

**PLAY MODE** 10 repeatedly until "\$\square\$" disappears

Creating your own program (Program

You can arrange the playing order of up to 25

**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"

When you want to specify a folder that contains

MP3 files, press **TUNE**/ + or - 3 first to select a

folder, and then press ◄ or ▶ 5 to select a

The track/file is programmed and the program

Step number

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

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

To play the same program again, press

Note that the created program is cleared in the

- When you open the CD compartment cover.

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

After creating your own program, you can check

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

**DISPLAY/ENTER** 11 repeatedly. The display changes

Total number of steps ←→ Last programmed track/

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

**PLAY MODE** 10 repeatedly until "PGM" disappears

To delete all tracks/files in the current

Stop playback, and then press **STOP** (**1**) **9**.

"noSTEP" appears and you can create a new

program, following the procedure "Creating your

You can set the unit to turn off automatically after a

The default setting ("90") appears and the

"SLEEP" indicator lights up on the display.

2 Press SLEEP 13 repeatedly to select the

information about programmed tracks/files.

To display programmed track/file

– When you turn off the power of the unit in the

**3** Press **◄** or **▶ 5** to select a track/file.

2 Press PLAY MODE 10 repeatedly until "\$"

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

To repeat

Programmed

To cancel Repeat Play

disappears from the display

appears on the display

To cancel Shuffle Play

from the display.

by pressing **◄** 5

tracks/files on a disc.

appears on the display.

4 Press DISPLAY/ENTER 11.

step number appears

(Example: audio CD)

tracks/files

Program Play.

CD function.

information

as follows

file number

program

from the display.

To cancel Program Play

own program (Program Play)."

set time has elapsed.

1 Press SLEEP 13.

desired setting.

Using the Sleep Timer

CD PLAY/PAUSE (►II) 9.

Play)

(Shuffle Play)

tracks/files

• The "SLEEP" indicator will flash once every 8 seconds while the Sleep Timer is activated • The "SLEEP" indicator will start flashing on the display

To cancel the Sleep Timer

about 1 minute before the unit turns of

Press **SLEEP** 13 repeatedly to select "OFF" or turn 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.
- Be sure to release the or ►► 4 button by pressing ■▲ 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

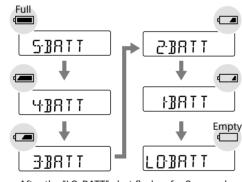
output from the speakers. To connect the unit to a TV or video recorder/ player, use an extension cable (not supplied) with a stereo-mini jack on one end and two phono plugs on the other end.

# 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 power

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



After the "LO-BATT" alert flashes for 8 seconds, 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 ther the unit power will go off automatically. Replace all the batteries with new ones when this message



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

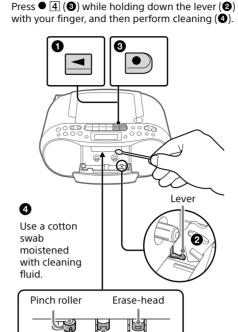
- ones when "LO-BATT" appears. - The unit turns on but then turns off after "LO-BATT" flashes for 8 seconds.
- The unit will not turn on.

# Cleaning the tape heads and tape

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



Play/recording

head

# Precautions

Capstan

# Discs that this unit CAN play

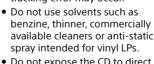
- Audio CD (CD-DA\*1 tracks)
- CD-R/CD-RW discs on which CD-DA tracks are recorded in CD-DA format
- CD-R/CD-RW that contains MP3 files and is finalized\*2 correctly.
- <sup>1</sup> CD-DA is the abbreviation for Compact Disc Digital Audio.
- It is a recording standard used for audio CDs. <sup>2</sup> 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
- 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 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 sound is noisy.

status of the power supply.

• Place the CD with the label side up.

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.

CD player

CD is in place.

• Clean the CD.

condensation.

• Is someone using a mobile phone or other

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

The CD player does not play even when a

• Take out the CD and leave the CD compartment

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

"noCD" appears when the disc is loaded.

• No disc is set in the CD compartment. Set a disc.

• The CD may be placed upside down. Place the

"00" appears on the display when the disc

• No audio files recorded in supported formats, or a

file to be played back has an unsupported file

"Err" appears when the disc is loaded.

• The CD may have scratches. Replace the disc

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

• Place the unit in a location free from vibrations.

• The sound may drop out or noise may be heard

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

Clean the lens with a commercially available

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

The sound is weak or reception is poor.

• 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

• 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

• 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.

• Make sure that the overwrite protection tab has

Poor or distorted playback, recording or

• Clean the capstan, pinch roller, play/recording

head and erase-head. See "Cleaning the tape

• Demagnetize the heads using a commercially

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

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

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

Noise is heard during playback.

interference in the playback.

heads and tape path" for details

available tape head demagnetizer.

(metal) tapes are not supported.

consult your nearest Sony dealer.

• This is not a malfunction. You may hear

noise, or noise due to electromagnetic

Replace all the batteries with new ones.

• Move the unit away from nearby TVs.

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

• The CD may have a reading problem. Replace the

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

• The CD may be dirty. Clean the disc.

The sound drops out.

Reduce the volume

application software

damaged.

usual.

Radio

playback.

structure

best reception

the TV.

operation button.

not been removed.

erasing quality.

phone away from the unit.

The TV picture is unstable.

An unplayable disc (DVD, BD, etc.) is loaded.

disc with the label side up.

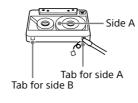
Replace the disc.

• The CD may have a reading problem. Replace the

CD-RW, recording device or application software

humming noise from the radio depending on the

equipment emitting radio waves near the unit? If



• 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
- Should any solid object or liquid fall into the unit, unplug the unit, and have it checked by qualified personnel before operating it any further
- Discs with non-standard shapes (e.g., heart, square, star) cannot be played on this unit. Attempting to do so may damage the unit. Do not use such discs.

### On power sources

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

### On placement

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

### On operation

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

# On handling the unit

- Do not leave the CD compartment open to avoid dust and debris contamination.
- When carrying the unit, hold it by the handle 16 to 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.

# Troubleshooting

# General

### "LO-BATT" flashing message appears on the display. • Replace all the batteries with new ones. This

message appears when using the unit on batteries and the battery power drops to a certain

### 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.

# 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

POWER OUTPUT AND TOTAL HARMONIC DISTORTION The United States model only) With 4-ohm loads, both channels driven from 150 Hz – 10.000 Hz; rated 1.1 W per channel-minimum RMS powe

### 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

pick-up block with 7 mm aperture.) Number of channels

200 mm from the objective lens surface on the optical

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

Wow and flutter

Below measurable limi

# Supported audio format MP3 (MPEG 1 Audio Layer-3)

Radio section Frequency range FM: 87.5 MHz - 108 MHz (100 kHz step)

### AM: 530 kHz - 1,710 kHz (10 kHz step) Intermediate frequency

AM: 45 kHz

# FM: Telescopic antenna

Tape deck section 4-track 2-channel, stereo

Approx. 150 s (sec.) with Sony cassette C-60 Type I (normal): 80 Hz – 10,000 Hz

# AUDIO IN

# Output

General Full range, 8 cm (3 1/4 in) dia., 4  $\Omega$ , cone type (2)

120 V AC, 60 Hz (AC power supply)

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

nes) stereo mini jack

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

1.7 W + 1.7 W (at 4  $\Omega$ , 10% harmonic distortion)

# **Specifications**

### **AUDIO POWER SPECIFICATIONS**

with no more than 10 % total harmonic distortion in AC

### may vary depending on the circumstances of the unit or operating condition

Power consumption

\*2 When using Sony alkaline batteries.

Approx. 310 mm  $\times$  140 mm  $\times$  212 mm (12  $^{1}/_{4}$  in  $\times$  5  $^{5}/_{8}$  in  $\times$ 8 3/8 in) (W/H/D) (incl. projecting parts)

Approx. 1.9 kg (61.7 oz) (excl. batteries)

# Supplied accessories

License and Trademark Notice

### Thomson • Other trademarks and trade names are those of

marks are not specified.

# Please register this product on line at the following

Proper registration will enable us to send you periodic mailings about new product, services and other important announcements. Registering your product will also allow us to contact you in the unlikely event that the product needs adjustment or modification. Thank you.

Portable Audio

D455714606

# SONY®

or replace with new or refurbished product or parts, any product or parts dete

Instructions: To obtain warranty service, you must deliver the product, freight prepaid, in either its original

Laredo Fulfillment Center 10227 Crossroads Loop Suite B

www.sony.com/suppor Or call the Sony Customer Information Service Center

This Limited Warranty only covers product issues caused by defects in material or workmanship during ordinary consumer use; it does not cover product issues caused by any other reason, including but not limited to product issues due to commercial use, acts of God, misuse, limitations of technology, or modification of or to any part of  $the Sony \ product \ or \ product \ purchased \ from \ other \ than \ Sony \ or \ a \ Sony \ Retailer. \ To \ determine \ if \ a \ retailer \ is \ part$ of the Sony Retailer Network, please contact Sony's Customer Service Call Center or go to www.sony.com/ support. This Limited Warranty does not cover Sony products sold AS IS or WITH ALL FAULTS or consumables (such as fuses or batteries). This Limited Warranty is invalid if the factory-applied serial number has been altered

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# LIMITED WARRANTY (U.S. Only)

Sony Electronics Inc. ("Sony") warrants this product against defects in material or workmanship for the time periods and as set forth below when purchased directly from Sony or a Sony Retailer. Pursuant to this Limited Warranty, Sony will, at its option, (i) repair the product using new or refurbished parts or (ii) replace the product with a new or refurbished product. For purposes of this Limited Warranty, "refurbished" means a product or part that has been returned to its original specifications. In the event of a defect, these are your exclusive rem-

Term: For a period of one (1) year from the original date of purchase of the product, Sony will, at its option, repair

This Limited Warranty covers only the hardware components packaged with the Product. It does not cover technical assistance for hardware or software usage and it does not cover any software products whether or not contained in the Product; any such software is provided "AS IS" unless expressly provided for in any enclosed software Limited Warranty. Please refer to the End User License Agreements included with the Product for your rights and obligations with respect to the software.

packaging or packaging affording an equal degree of protection to the Sony authorized service facility specified. It is your responsibility to backup any data, software or other materials you may have stored or preserved on your unit. It is likely that such data, software, or other materials will be lost or reformatted during service and Sony will not be responsible for any such damage or loss. A dated purchase receipt from Sony or a Sony Retailer is required. For specific instructions on how to obtain warranty service for your

The Address of the Laredo Fulfillment Center is:

Visit Sony's Web Site

1-800-222-SONY (7669)

For an accessory or part not available from your authorized dealer, call: 1-800-488-SONY (7669)

Repair / Replacement Warranty: This Limited Warranty shall apply to any repair, replacement part or replacement product for the remainder of the original Limited Warranty period or for ninety (90) days, whichever is longer. Any parts or product replaced under this Limited Warranty will become the property of Sony.

or removed from the product. This Limited Warranty is valid only in the United States.

**DURATION OF IMPLIED WARRANTIES: EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW. ANY** 

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations

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

Playback of CD Approx. 10 hours (at a volume level of around 23) Recording FM programs Approx. 23 hours

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

Approx. 2.3 kg (81.2 oz) (incl. batteries)

Design and specifications are subject to change without

• MPEG Layer-3 audio coding technology and patents licensed from Fraunhofer IIS and

their respective owners. In this manual,  $^{\text{IM}}$  and  $^{\text{IR}}$ 

# For customers in the USA

website. http://www.sony.com/productregistration