2-672-606-11(1) SONY

Personal Audio System

Operating Instructions

Owner's Record

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

Serial No.

Model No. ZS-H10CP

ZS-H10CP



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WARNING

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

To avoid electric shock, do not open the cabinet. Refer servicing to qualified personnel only.

To reduce the risk of fire, do not cover the ventilation of the apparatus with newspapers, tablecloths, curtains, etc. And do not place lighted candles on the apparatus

To reduce the risk of fire or electric shock, do not place objects filled with liquids, such as vases, on the apparatus.

Connect the AC power adaptor to an easily accessible AC outlet. Should you notice an abnormality in the AC power adaptor, disconnect it from the AC outlet

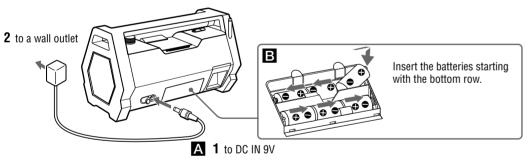
Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

increase eye hazard.

The use of optical instruments with this product will

CAUTION

Power sources



Connect the AC power adaptor A or insert six R20 (size D) batteries (not supplied) into the battery compartment B.

- Replace the batteries when the OPR/BATT indicator 5 dims or when the unit stops operating. Replace all the batteries with new ones. Before you replace the batteries, be sure to take out the CD from the unit.
- To operate the unit on batteries, disconnect the AC power adaptor from the unit.

Information

For customers in the USA

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
- 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.

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

Notes 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

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.

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

Specifications

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION: With 3.2-ohm loads, both channels driven from 150 - 10 000 Hz; rated 1.4 W per channel-minimum RMS power, with no more than 10 % total hard distortion in AC operation

Other specifications

CD player section

Compact disc digital audio system

Laser diode properties Emission duration: Con Laser output: Less than 44.6 µW

(This output is the value measured at a distance of about 200 mm from the objective lens surface on the

optical pick-up block with 7 mm aperture.)

20 - 20 000 Hz ±1 dB

Wow and flutter Below measurable limit

Radio section

Frequency range FM: 87.5 - 108 MHz AM: 530 - 1 710 kHz

FM: Telescopic antenna

General

AUDIO IN jack (stereo minijack): minimum input level 245 mV

Headphones jack (stereo minijack): For 16 - 68 Ω impedance headphones

Power output 2.3 W + 2.3 W (at 3.2 Ω , 10 % harmonic distortion)

DC IN 9 V jack accepts:

Supplied AC power adaptor for use with 120 V AC, 60 Hz 9 V DC, 6 R20 (size D) batteries

CD playback Sony R20P: approx. 3 h

Sony alkaline LR20: approx. 10 h

Radio reception

Sony R20P: approx. 14 h Sony alkaline LR20: approx. 28 h

For customers in the USA

Please register this product on line a

Approx. $558 \times 292 \times 275 \text{ mm (w/h/d)}$

Approx. 6.4 kg (14 lb) (incl. batteries)

Supplied accessories AC power adaptor (1)

Optional accessories

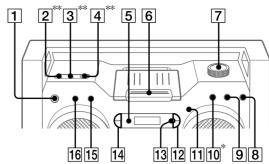
onv MDR headphones serie

 $(22 \times 11^{-1}/_{2} \times 10^{-7}/_{8})$ inches) (incl. projecting parts

Design and specifications are subject to change without notice

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

Basic Operations



- ►II button 10 has a tactile dot.

 The \(\text{(headphones) jack 2}, \text{AUDIO IN jack 3} \) and AUDIO IN button 4 are covered with a rubber cap.

Before using the unit

To turn on/off the power

Press POWER 1

To adjust the volume

Turn VOLUME towards + or - 7

To listen through headphones Connect the headphones to the Ω (headphones) jack 2.

To reinforce the bass sound

Press MEGA BASS 11

"MEGA BASS" appears in the display. To return to normal sound, press the button again.

Playing a CD/MP3 disc

- 1 Press 9 when the unit is not in CD mode.
- 2 Pull PULL OPEN 6, and place a disc with the label side up on the CD compartment

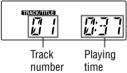
To close the CD compartment, press PULL OPEN 6 until it clicks.



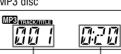
3 Press ►II 10.

The unit plays all the tracks/MP3 files once. When you play an MP3 disc, "MP3" appears in the display after the unit reads the file information

Audio CD



MP3 disc



MP3 file After the folder name*, song title and artist name are displayed. number

the playing time** will appear. * If there is no folder, "ROOT" appears in the display.

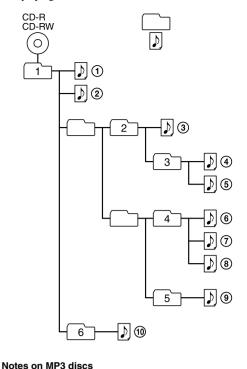
** If the playing time is more than 100 minutes, it appears "--:-" in the display.

То	Do this
Pause playback	Press ►II 10. To resume play, pres
	it again.
Stop playback	Press ■ 9.
Go to the next	Press ▶▶ 12.
track/MP3 file	
Go back to the	Press ► 12.
previous track/	
MP3 file	
Select a folder on	Press TUNE/FOLDER + 14 to go
an MP3 disc	forward or press TUNE/FOLDER
	 14 to go backward.
Play the selected	Press MODE 16 until "FLDR"
folder only (MP3	appears, press TUNE/FOLDER +
disc only)	or $-$ 14 to select a folder and then
	press ►II 10 to start playing.
Locate a point	Press ►► (forward) or ►
while listening to	(backward) 12 while playing and
the sound	hold it until you find the point.
Locate a point	Press ►► (forward) or ►
while observing	(backward) 12 in pause and hold i
the display	until you find the point.
Remove the CD	Pull PULL OPEN 6.

- Playback starts from the track/MP3 file you last stopped playing (Resume play). During stop, the track/MP3 file number to be played
- To cancel the resume play (to start play from the beginning of the first track/MP3 file), press ■ 9 in stop mode. The resume play is also canceled when you open the CD compartment

Example of folder structure and playing

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



• When the disc is inserted, the unit reads all the files on that disc.

- During this time, "READING" is displayed. 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 play. nend that you do not save unnecessary folders or files other than MP3 ones in the disc to be used for MP3 listening.
- A folder that does not include an MP3 file is skipped. • Maximum number of files: 255
- Maximum number of folders: 150 (including the root folder) Maximum number of folders and files in total: 256 Maximum directory levels: 8 • Folder names and file names can be displayed with up to 30
- characters including quotation marks. • The characters that can be displayed on this unit are listed below
- A Z - 0 - 9
- "\$%'()*+,-./\`@|
- Other characters are displayed as "_"
- This unit conforms to Version 1.0, 1.1, 2.2, 2.3 and 2.4 of the ID3 tag format. When the file has ID3 tag information, the song title, artist name and album name can be displayed and "ID3" appears in the display. If the file does not have ID3 tag information, the file name appears instead of the song title, the folder name appears instead of the album name and "NO ARTIST" appears instead of the artist name. ID3 tag information can be displayed with up to 15
- When naming, be sure to add the file extension "mp3" to the file
- If you put the extension "mp3" to a file other than an MP3 file, the unit cannot recognize the file properly and will generate random noise that could damage your speakers.
- The file name does not correspond to the ID3 tag.

Listening to the radio

1 Press RADIO•BAND•AUTO PRESET 8

and stops when it finds a clear station.

Each time you press the button, the indication changes as follows: "FM" → "AM"

2 Hold down TUNE/FOLDER + or – 14 until the frequency digits begin to change in the display. The unit automatically scans the radio frequencies

If you can not tune in a station, press TUNE/ FOLDER + or -14 repeatedly to change the frequency step by step.

When an FM stereo broadcast is received, "ST" appears.

If the FM stereo broadcast contains noise, press MODE 16 until "MONO" appears in the display, and the radio will play in monaural.

Other Operations

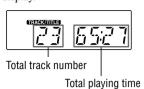
Using the display

You can check information about the CD using the

Checking information of an audio CD

To check the total track number and playing time of the CD

Press ■ 9 while the CD is stopped, and you can check them in the display.



Checking information of an MP3 disc

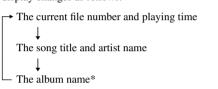
To check the total folder number and total file number on the CD

Press ■ 9 while the CD is stopped, and you can check them in the display



To check file information

Press DSPL/ENTER $\boxed{13}$ while playing an MP3 disc. The display changes as follows:



*If there is no folder, "ROOT" appears.

Playing tracks/MP3 files repeatedly (Repeat Play)

You can play tracks/MP3 files repeatedly in normal, shuffle or program play modes.

1 Press 9 when the unit is not in CD mode.

2 Proceed as follows:

To repeat	D	o this
A single	1	Press REPEAT 15 until "← 1"
track/MP3		appears.
file	2	Press I or ▶► 12 to select the
		track/MP3 file that you want to repea
	3	Press ►II 10.
All tracks/		Press REPEAT 15 until "←" appears
MP3 files on	2	Press ►II 10.
the CD		
A selected	1	Press MODE 16 to display "FLDR"
folder (MP3		and then press REPEAT 15 until "
disc only)		appears.
	2	Select the folder by pressing
		TUNE/FOLDER + or -14 .
	3	Press ►II 10.
Tracks/MP3	1	Start Shuffle Play (see "Playing track
files in		MP3 files in random order").
random order	2	Press REPEAT 15 until "SHUF" and
		"←" appear.
	3	Press ►II 10.
Files in a	1	Start Folder Shuffle Play (see "Playin
selected		tracks/MP3 files in random order").
folder in	2	Press REPEAT 15 until "FLDR",
random order		"SHUF" and "←" appear.
(MP3 disc	3	Press ►II 10.
only)		
Programmed	1	Program tracks/MP3 files (see
tracks/MP3		"Creating your own program").
files	2	Press REPEAT 15 until "←" and
		"PGM" appear.
	3	Press ►II 10.

To cancel Repeat Play

Press REPEAT 15 until "←" disappears from the display.

Playing tracks/MP3 files in random order (Shuffle Play)

You can play tracks/MP3 files in random order. When playing an MP3 disc, you can also play MP3 files in a selected folder in random order (Folder Shuffle Play).

- 1 Press 9 when the unit is not in CD mode.
- 2 Press MODE 16 until "SHUF" appears in the display.

When you select Folder Shuffle Play (MP3 disc only), press MODE 16 until "FLDR" and "SHUF" appear in the display. Then press TUNE/FOLDER + or - 14 to select a folder you want.

3 Press ►II 10 to start Shuffle Play.

To cancel Shuffle Play

Stop play first. Then press MODE 16 until "SHUF" disappears from the display.

• During Shuffle Play, you cannot select the previous track/MP3 file by pressing |

• The resume function does not work during Shuffle Play.

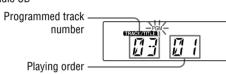
Creating your own program (Program Play)

You can arrange the playing order of up to 15 tracks/ MP3 files on a CD.

- **1** Press 9 when the unit is not in CD mode.
- 2 Press MODE 16 until "PGM" appears in the
- 3 Press ← or ► 12 then press DSPL/ENTER 13 for the tracks you want to program in the order you want.

For MP3 files, press TUNE/FOLDER + or – 14 first

Audio CD



MP3 disc



4 Press ►II 10 to start Program Play.

To cancel Program Play

Stop play first. Then press MODE 16 until "PGM" disappears from the display.

To check the order of tracks/MP3 files before play

Press DSPL/ENTER 13

Every time you press the button, the track/MP3 file number appears in the programmed order.

To change the current program

Press ■ 9 once if the CD is stopped and twice if the CD is playing. The current program will be erased. Then create a new program following the programing

- If you try to program 16 tracks/MP3 files or more, "FULL" will
- You can play the same program again, since the program is saved
- until you open the CD compartm
- The resume function does not work during Program Play

Presetting radio stations

You can store radio stations into the unit's memory. You can preset up to 30 radio stations, 20 for FM and 10 for AM in any order.

- 1 Press RADIO•BAND•AUTO PRESET 8 to
- 2 Hold down RADIO•BAND•AUTO PRESET 8 for 2 seconds until "AUTO" flashes in the display
- 3 Press DSPL/ENTER 13.

The stations are stored in memory from the lower frequencies to the higher ones.

If a station cannot be preset automatically

You need to preset a station with a weak signal

- 1 Press RADIO•BAND•AUTO PRESET 8 to select the band.
- 2 Tune in the station you want.
- 3 Hold down DSPL/ENTER 13 for 2 seconds until the preset number flashes in the display.
- 4 Press PRESET + or 12 until the preset number you want for the station flashes in the display.
- **5** Press DSPL/ENTER 13.

The new station replaces the old one.

The preset radio stations remain in memory even if you unplug the AC power adaptor or remove the batteries

Playing preset radio stations

- 1 Press RADIO•BAND•AUTO PRESET 8 to
- 2 Press PRESET + or 12 to tune in the stored

Connecting an optional component

component to be connected.

You can enjoy the sound from a PC, TV, VCR, portable digital music player, etc. through the speakers of this

Be sure to turn off the power of each component before making any connections For details, refer to the instruction manual of the

- 1 Connect AUDIO IN 3 to the line output jack of the portable digital music player or other components using an audio connecting cable* (not supplied).
- For a PC: use a cable which fills the connector of your PC. For a TV or VCR: use a cable with a stereo-mini plug on one end and two phono plugs on the other end. For a portable digital music player: use a cable with a stereomini plug on both ends.
- **2** Turn the unit and the connected component on.
- 3 Press AUDIO IN 4 and start playing sound on the connected component.

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

Connect the cables securely to avoid any malfunction

Precautions

Discs that this unit CAN play

Audio CD

- CD-R/CD-RW (CD-DA*/MP3 files)
- *CD-DA is the abbreviation for Compact Disc Digital Audio. It is a recording standard used for Audio CDs.

Discs that this unit CANNOT play

- CD-R/CD-RW other than those recorded in music CD format or MP3 format conforming to ISO9660 Level 1/Level 2 or Joliet
- CD-R/CD-RW of poor recording quality, CD-R/CD-RW that has scratches or is dirty, or CD-R/CD-RW recorded with an incompatible recording device
- · CD-R/CD-RW which was finalized incorrectly

Notes on discs

• Before playing, clean the CD with a cleaning cloth. Wipe the CD from the center out. If there is a scratch. dirt or fingerprints on the CD, it may cause tracking



- 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, nor 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 sticker on the CD, nor scratch the surface of the CD.
- After playing, store the CD in its case.

On safety

- As the laser beam used in the CD player section is harmful to the eyes, do not attempt to disassemble the casing. Refer servicing to qualified personnel only.
- 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.
- When inserting a CD, make sure to close the CD compartment until it clicks. If not, the CD might pop

On power sources

- For AC operation, use the supplied AC power adaptor; do not use any other type.
- 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.
- Unplug the unit from the wall outlet when it is not be used for an extended period of time.
- When the batteries are not to be used, remove them to avoid damage that can be caused by battery leakage or
- The nameplate indicating operating voltage, etc. is located at the bottom.

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 on an inclined or unstable place.
- Since a strong magnet is used for the speakers, keep personal credit cards using magnetic coding or springwound watches away from the unit to prevent possible damage from the magnet.
- Do not place any objects on top of the handle on this

Do not immerse in water

This product is not meant to be immersed in water or come in continuous contact with water.

battery compartment lid, be sure to wipe off water, dust or sand on the outside of the unit. • Water in the headphones jack/DC IN 9V jack/ AUDIO IN jack may cause rusting. Cover the jacks

with the attached rubber cap when the jacks are not

· Before opening or shutting the CD compartment or

- If the unit is splashed with salt water, wipe clean with a damp cloth, then dry with a soft dry cloth. Do not wash under running water; do not use soap or detergent; do not dry with an electric hair dryer.
- The supplied AC power adaptor is not water resistant. To prevent shock hazard, avoid using the unit near water during AC operation.
- The storage space on the back of this unit is not waterproof. Do not use it to store anything that can be damaged by water.

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.

Cleaning the cabinet

• Clean the cabinet, panel and controls with 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, please consult your nearest Sony dealer.

Troubleshooting

The power is not on.

General

- · Connect the AC power adaptor to the wall outlet
- · Make sure the batteries are inserted correctly.
- · Replace all the batteries with new ones if they are

There is no audio.

• Unplug the headphones when listening through speakers.

Noise is heard.

• Someone is using a portable telephone or other equipment that emits radio waves near the unit. -Move the portable telephone, etc., away from the unit.

CD/MP3 player

The CD does not play or "NO DISC" is displayed even when a CD is in place.

- Place the CD with the label surface up.
- · Clean the CD.

weak.

- Take out the CD and leave the CD compartment open for about an hour to dry moisture condensation.
- The CD-R/CD-RW is blank.
- There is a problem with the quality of the CD-R/ CD-RW, recording device or application software. • Replace all the batteries with new ones if they are

The sound drops out.

- · Reduce the volume
- Clean the CD, or replace it if the CD is badly damaged.
- Place the unit in a location free from vibration.
- Clean the lens with a commercially available blower. • The sound may drop out or noise may be heard when using poor quality CD-R/CD-RW or if there is a problem with the recording device or application

Starting playback takes more time than

- The following discs take a longer time to start playback.
- a disc recorded with a complicated tree structure. - a disc that has not been finalized (a disc to which
- data can be added). - a disc that has many folders or non-MP3 files.

Radio

Reception is poor.

• Reorient the antenna to improve FM reception.





- The audio is weak or has poor quality. · Replace all the batteries with new ones if they are
- Move the unit away from the TV.

The picture of your TV becomes unstable. • If you are listening to an FM program near the TV with an indoor antenna, move the unit away from the TV.

After trying the remedies, if you still have problems, unplug the AC power adaptor or remove all the batteries. After all the indications in the display disappear, plug the AC power adaptor or insert the batteries again. If the problem persists, please consult your nearest Sony