

Precautions

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 player, unplug the player, 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 player. Attempting to do so may damage the player. Do not use such discs.

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.

On power sources

- For AC operation, use the supplied AC power adaptor; do not use any other type.
- The player is not disconnected from the AC power source (mains) as long as it is connected to the mains, even if the player itself has been turned off.
- For battery operation, use six R14 (size C) batteries.
- When the batteries are not to be used, remove them to avoid damage that can be caused by battery leakage or corrosion.
- The nameplate indicating operating voltage, etc. is located at the bottom.

On placement

- Do not leave the player in a location near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock.
- Do not place the player on an inclined or unstable place.
- Do not place anything within 10 mm of the side of the cabinet. The ventilation holes must be unobstructed for the player to operate properly and prolong the life of its components.
- If the player is left in a car parked in the sun, be sure to choose a location in the car where the player will not be subjected to the direct rays of the sun.
- Since a strong magnet is used for the speakers, keep personal credit cards using magnetic coding or spring-wound watches away from the player to prevent possible damage from the magnet.

Do not immerse in water

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

- Before opening or shutting the CD compartment or battery compartment lid, be sure to wipe off water, dust or sand on the outside of the player.
- Water in the headphones jack/DC IN jack may cause rusting. Cover the jacks with the attached rubber cap when the jacks are not used.
- If the player 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 player near water during AC operation.

On operation

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

Notes on CDs

- Before playing, clean the CD with a cleaning cloth. Wipe the CD from the center out.



- 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.

If there is a scratch, dirt or fingerprints on the CD, it may cause tracking error.

About CD-Rs/CD-RWs

This player can play CD-Rs/CD-RWs recorded in the CD-DA format*, but playback capability may vary depending on the quality of the disc and the condition of the recording device.

- * CD-DA is the abbreviation for Compact Disc Digital Audio. It is a recording standard used for Audio CDs.

Music discs encoded with copyright protection technologies

This product is designed to play back 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.

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

Troubleshooting

General

The power does not come on.

- Connect the AC power adaptor to the mains securely.
- Make sure the batteries are inserted correctly.
- Replace all the batteries with new ones if they are weak.

The power is not on, and "bAttErY" and "Error" are displayed alternately.

- Make sure the batteries are inserted correctly.
- Replace all the batteries with new ones if they are weak.

There is no audio.

- Adjust the volume.
- 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 player. →Move the portable telephone, etc., away from the player.

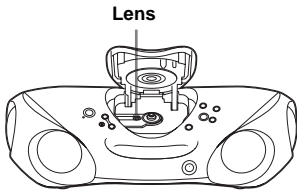
CD Player

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.
- Take out the CD and leave the CD compartment open for about an hour to dry moisture condensation.
- The CD-R/CD-RW was not finalized. Finalize the CD-R/CD-RW with the recording device.
- There is a problem with the quality of the CD-R/CD-RW, recording device or application software.
- The CD-R/CD-RW is blank.
- Replace all the batteries with new ones if they are weak.

The sound drops out.

- Reduce the volume.
- Clean the CD, or replace it if the CD is badly damaged.
- Place the player 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-Rs/CD-RWs or if there is a problem with the recording device or application software.

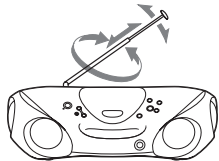
You cannot open/close the lid of the CD compartment.

- Place the player on a level surface and open/close the lid.

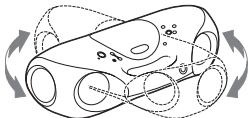
Radio

Reception is poor.

- Reorient the aerial to improve FM reception.



- Reorient the player itself to improve AM reception.



The audio is weak or has poor quality.

- Replace all the batteries with new ones if they are weak.
- Move the player away from the TV.

The picture of your TV becomes unstable.

- If you are listening to an FM programme near the TV with an indoor aerial, move the player away from the TV.

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

Specifications

CD player section

System	Compact disc digital audio system
Laser diode properties	Material: GaAlAs
Wave length: 780 nm	Emission duration: Continuous
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.)
Spindle speed	200 r/min (rpm) to 500 r/min (rpm) (CLV)
Number of channels	2
Frequency response	20 - 20 000 Hz +0/-1 dB
Wow and flutter	Below measurable limit

Radio section

Frequency range	FM: 87.5 - 108 MHz
AM: 531 - 1 611 kHz (9 kHz step)	530 - 1 610 kHz (10 kHz step)
IF	FM: 10.7 MHz
AM: 450 kHz	
Aerials	FM: Telescopic aerial
AM: Built-in ferrite bar aerial	

General

Speaker	Full range: 8 cm dia., 3.2 Ω, cone type (2)
Passive radiator: 8 cm dia. (2)	

Outputs	Headphones jack (stereo minijack)
For 16 - 64 Ω impedance headphones	

Maximum power output	4.6 W
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Power requirements	DC IN 9V jack accepts:
Supplied AC power adaptor for use with:	- 240 V AC, 50 Hz (Australian model)
- 230 V AC, 50 Hz (Other models)	
9 V DC, 6 R14 (size C) batteries	

Battery life	
CD playback	
Sony R14P: approx. 2 h	
Sony alkaline LR14: approx. 6 h	
Radio play	
Sony R14P: approx. 12 h	
Sony alkaline LR14: approx. 40 h	

Dimensions	Approx. 511 × 154 × 244 mm (w/h/d)
(incl. projecting parts)	

Mass	Approx. 3.4 kg (incl. batteries)
Supplied accessory	AC power adaptor (1)

Design and specifications are subject to change without notice.

Optional accessories

Sony MDR headphone series

SONY

Personal Audio System

Operating Instructions

ZS-X10

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2-581-447-32 (1)

English

WARNING

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

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

WARNING

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

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 immediately.

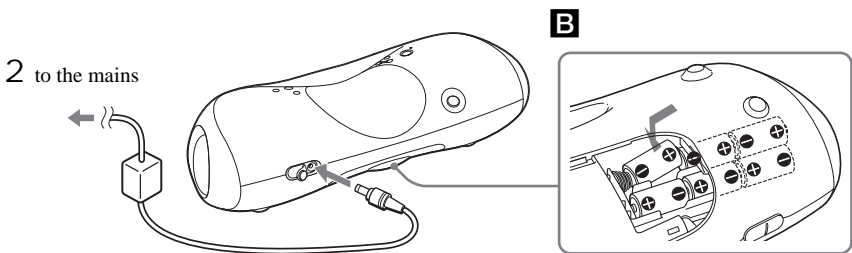
For customers in Australia

The supply cord of the AC power adaptor cannot be replaced; if the cord is damaged, the AC power adaptor should be discarded.

<http://www.sony.net/>



Power Sources



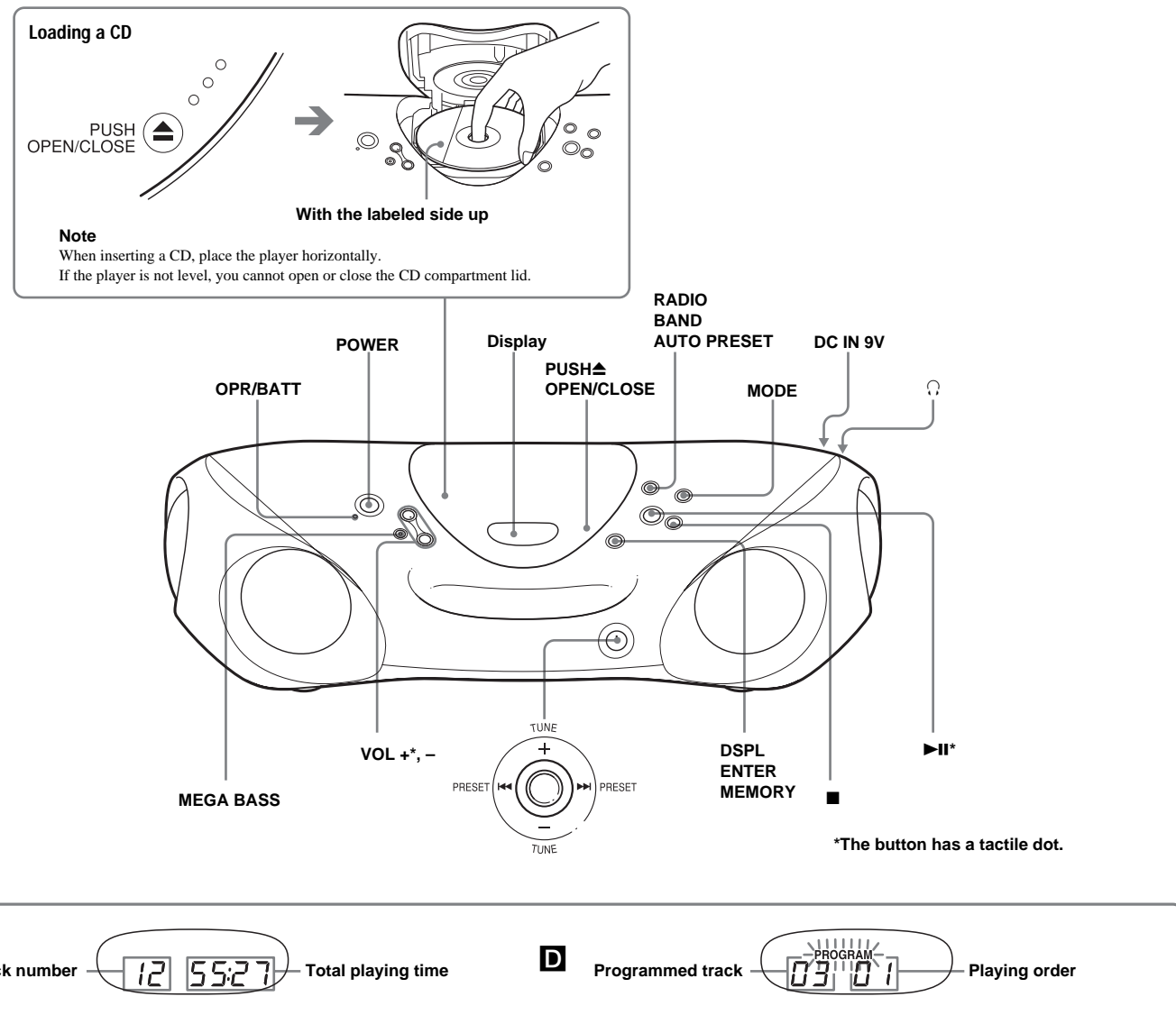
A 1 to DC IN 9V

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

Notes

- Replace the batteries when the OPR/BATT indicator dims or when the player stops operating. Replace all the batteries with new ones.
- To use the player on batteries, disconnect the AC power adaptor from the player.

Location of controls



To turn on/off the power

Press POWER.

To adjust the volume

Press VOL +, -.

To listen through headphones

Connect the headphones to the (headphones) jack.

Adjusting the sound emphasis

To reinforce the bass sound

Press MEGA BASS.

“MEGA BASS” appears in the display.

To return to normal sound, press the button again.

Playing a CD

- 1 Press POWER to turn on the player.
 - 2 Load a CD in the CD compartment.
 - 3 Press PUSH to close the CD compartment.
 - 4 Press .
- The player plays all the tracks once.

To	Do this
stop playback	Press .
pause playback	Press .
go to the next track	Press the button again to resume play after pause. Push the 4-way control key toward .
find the beginning of the current track/go back to the previous track	Push the 4-way control key toward .
remove the CD	Press PUSH .
locate a point while listening to the sound	Push the 4-way control key toward (forward) or (backward) while playing until you find the point.
locate a point while observing the display	Push the 4-way control key toward (forward) or (backward) in pause until you find the point.

About ESP (Electronic Shock Protection) function

When a CD is playing, the ESP function is always activated. The ESP function prevents the sound from skipping by using a buffer memory that stores music data for about 10 seconds.

Notes

- Playing may stop when the player gets a strong shock even with the ESP function.
- You may hear a noise or sound skip:
 - when you listen to a dirty or scratched CD.
 - when you listen to an audio test CD.
 - when the player receives continuous shock.

Using the display

To check the total track number and playing time

Press DSPL•ENTER•MEMORY in stop mode (see fig. **C**).

To check the remaining time

Press DSPL•ENTER•MEMORY repeatedly while playing a CD. The display changes as follows:

- the current track number and playing time
- ↓ the current track number and the remaining time on the current track*
- ↓ the number of tracks left and remaining time on the CD

* For a track whose number is more than 20, the remaining time appears as “- : - :” in the display.

Selecting the play mode

Press MODE until “REP 1” “REP ALL” “SHUF” “SHUF REP” “PROGRAM” “PROGRAM REP” appears in the display. Then proceed as follows:

To	Select	Then do this
repeat a single track	“REP 1”	Push the 4-way control key toward or to select the track you want to repeat then press .
repeat all tracks	“REP ALL”	Press .
shuffle play	“SHUF”	Press .
repeat tracks in random order	“SHUF REP”	Press .
programme play	“PROGRAM”	Push the 4-way control key toward or then press DSPL•ENTER•MEMORY for the tracks you want to programme in the order you want up to 20 tracks (see fig. D). Then press .
repeat programmed tracks	“PROGRAM REP”	Push the 4-way control key toward or then press DSPL•ENTER•MEMORY for the tracks you want to programme in the order you want up to 20 tracks. Then Press .

To cancel selected play mode

Press MODE until the selected mode disappears from the display.

To check the programmed track and playing order in the display

To check the order of tracks before play, press DSPL•ENTER•MEMORY.

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

To change the current programme

Press once if the CD is stopped and twice if the CD is playing. The current programme will be erased. Then create a new programme following the programming procedure.

Tip

You can play the same programme again, since the programme is saved until you open the CD compartment.

Listening to the radio

- 1 Press POWER to turn on the player.
- 2 Press RADIO•BAND•AUTO PRESET until the band you want appears in the display.
Each time you press the button, the indication changes as follows:
“FM” → “AM”.
- 3 Push the 4-way control key toward TUNE + or TUNE - and hold it until the frequency digits begin to change in the display.
The player automatically scans the radio frequencies and stops when it finds a clear station.
If you can't tune in a station, push the 4-way control key toward TUNE + or TUNE - repeatedly to change the frequency step by step.

Tip

If the FM broadcast is noisy, press MODE until “Mono” appears in the display and the radio will play in monaural.

Changing the AM tuning interval

The AM tuning interval is preset to 9 kHz at the factory.

If you need to change the AM tuning interval, do the following:

- 1 Press POWER to turn on the player and press RADIO•BAND•AUTO PRESET.
- 2 While keeping the DSPL•ENTER•MEMORY button and VOL - button pressed, disconnect the AC power adaptor from the mains.
- 3 While keeping the DSPL•ENTER•MEMORY button and VOL - button pressed, reconnect the AC power adaptor to the mains. “AM 9” or “AM 10” appears in the display for 2 seconds.

After changing the tuning interval, you need to reset your preset radio stations.

Presetting radio stations

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

- 1 Press POWER to turn on the player.
- 2 Press RADIO•BAND•AUTO PRESET to select the band.
- 3 Hold down RADIO•BAND•AUTO PRESET for 2 seconds until “AUTO” flashes in the display.
- 4 Press DSPL•ENTER•MEMORY.
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 manually.

- 1 Press POWER.
- 2 Press RADIO•BAND•AUTO PRESET to select the band.
- 3 Tune in a station you want.
- 4 Hold down DSPL•ENTER•MEMORY for 2 seconds until the preset number flashes in the display.
- 5 Push the 4-way control key toward PRESET or PRESET repeatedly until the preset number you want for the station on flashes in the display.
- 6 Press DSPL•ENTER•MEMORY.
The new station replaces the old one.

Tip

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 POWER to turn on the player.
- 2 Press RADIO•BAND•AUTO PRESET repeatedly to select the band.
- 3 Push the 4-way control key toward PRESET or PRESET to tune in the stored station.