

Portable CD Player

Operating Instructions

About area code

The area code of the player you purchased is shown on upper left of the bar code label on the package. For accessories supplied with your player, check the area code of your model and refer to "Supplied accessories" toward the end of this manual.



D-E355

Sony Corporation ©2001

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

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

To prevent fire, do not cover the ventilation of the apparatus with newspapers, tablecloths, curtains, etc. And don't place lighted candles on the apparatus.

To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the apparatus.

Certain countries may regulate disposal of the battery used to power this product. Please consult with your local authority.

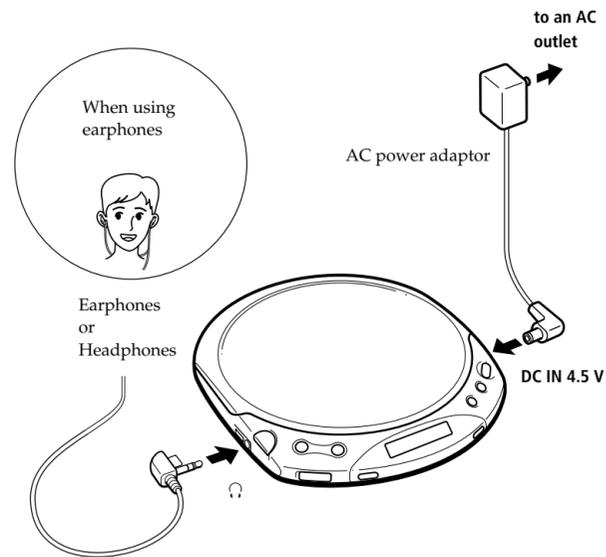
CAUTION

- INVISIBLE LASER RADIATION WHEN OPEN
- DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS

Playing a CD right away!

If you want to play a CD right now, choose to use your CD player on house current. Other choices are the following two: rechargeable batteries and dry batteries (see "Power Sources" on the reverse side).

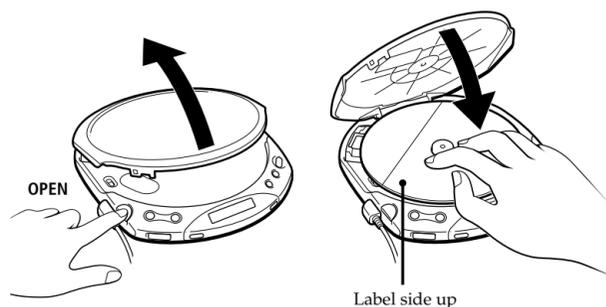
1 Connect



For models supplied with the remote control

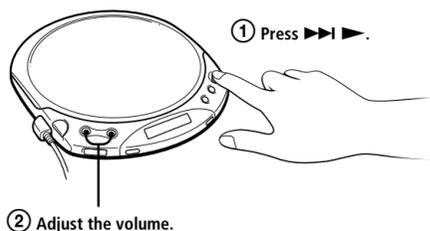
- Connect the plug of the headphones/earphones to the remote control.
- Connect the headphones/earphones to the remote control firmly. A loose connection may cause noise during playback.

2 Place a CD



- 1 Press OPEN to open the lid.
- 2 Fit the CD to the pivot.
- 3 Close the lid.

3 Play



② Adjust the volume.

To stop play, press ■/CHG.

To	Press
Play (from the point you stopped)	▶▶▶
Play (from the first track)	▶▶▶▶ for 2 seconds or more
Stop	■/CHG
Find the beginning of the current track (AMS*)	◀◀ once
Find the beginning of previous tracks (AMS)	◀◀ repeatedly*2
Find the beginning of the next track (AMS)	▶▶▶ once*2
Find the beginning of succeeding tracks (AMS)	▶▶▶▶ repeatedly*2
Go forward quickly	Hold down ▶▶▶
Go backwards quickly	Hold down ◀◀◀

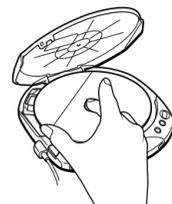
*1 AMS = Automatic Music Sensor

*2 After you have played the last track, you can return to the beginning of the first track by pressing ▶▶▶▶. Similarly, if you are at the first track, you can locate the last track by pressing ◀◀◀◀.

You can do the operations shown in the above table using the buttons with the same marks on the remote control.

To remove the CD

Remove the CD while pressing the pivot.



Notes on display

- When you press ▶▶▶▶, the total number of tracks in the CD and the total playing time appear.
- During play, the track number and the elapsed playing time of the current track appear.

If the volume does not increase

If "AVLS" flashes in the display, hold down SOUND until "AVLS" disappears from the display. For details, see "To protect your hearing (AVLS)."

About CD-Rs/CD-RWs

This CD 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.

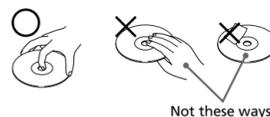
* CD-DA is the abbreviation for Compact Disc Digital Audio. It is a recording standard used for the Audio CDs.

When closing the lid of the CD player with the power supply attached

While the "disc" flashes in the display, the CD starts rotating and will stop after the CD player reads the disc information. This helps to shorten the waiting time before playback starts.

Notes on handling CDs

- To keep the CD clean, handle it by its edge. Do not touch the surface.
- Do not stick paper or tape onto the CD.
- Do not expose the CD to direct sunlight or heat sources such as hot air ducts. Do not leave the CD in a car parked under direct sunlight.



Not these ways

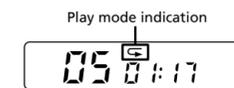
▶Other Operations

Selecting play mode

You can enjoy the following five play modes: "Normal play", "Repeat play — all the tracks", "Single track play", "Repeat play — a single track" and "Repeat shuffle play".



Press MENU during play. Each time you press the button, the play mode indication in the display changes as follows:



No indication (Normal play)

The player plays all the tracks on the CD once.

"◁" (Repeat play — all the tracks)

The player plays all the tracks on the CD repeatedly.

"1" (Single track play)

The player plays a single track you've selected once.

"◁ 1" (Repeat play — a single track)

The player plays a single track you've selected repeatedly.

"◁ SHUF" (Repeat shuffle play)

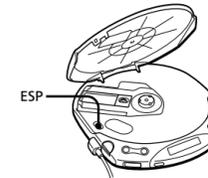
The player plays all the track on the CD in random order repeatedly.

Using other functions

To maximize the skip protection performance (ESP MAX)

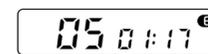
The typical ESP (Electronic Shock Protection) function minimizes skipping by using a buffer memory that stores music data and plays it back in the event of a shock. The ESP MAX system is an extremely sophisticated technology. Due to the light weight and improved anti-shock characteristics of the optical block, this system recovers from the skipping much quicker than conventional technology such as ESP or ESP2.*

* Although ESP MAX provides excellent protection, skipping may occasionally occur.



Set ESP to "ON." The ESP indication appears.

To release the ESP MAX function, set ESP to "OFF."



Notes

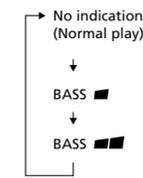
- Playing may stop when the CD player gets a strong shock even with the ESP MAX function on.
- You may hear a noise or sound may skip:
 - when listening to a dirty or scratched CD,
 - when listening to an audio test CD,
 - when the player receives continuous shock or
 - when using poor-quality CD-Rs/CD-RWs or if there is a problem with the recording device or application software.

To enjoy more powerful bass sound (Digital MEGA BASS)

You can emphasize the bass-boosted sound.



Press SOUND to select "BASS ■" or "BASS ■■."



The selected sound mode is displayed.

"BASS ■■" enhances the bass sound more than "BASS ■."

Note

- If the sound is distorted when using the SOUND function, turn down the volume.

To turn off the operation beep sound

You can turn off the beep sound that is heard from your headphones/earphones when you operate your CD player.

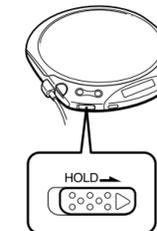
- 1 Remove the power source (AC power adaptor, rechargeable batteries or dry batteries) from the CD player.
- 2 Connect the power source while pressing ■/CHG (■ for the remote control).

To turn on the beep sound

Remove the power source and then connect the power source without pressing ■/CHG or ■.

To lock the buttons

You can lock your CD player against any accidental operations.

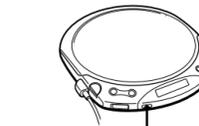


Slide HOLD in the direction of the arrow. When you press any button, "Hold d" appears in the display and you cannot operate the CD player.

To unlock, slide HOLD in the opposite direction of the arrow.

To protect your hearing (AVLS)

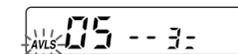
The AVLS (Automatic Volume Limiter System) function keeps down the maximum volume to protect your ears.



Hold down SOUND until "AVLS" appears in the display.



If you turn up the volume to "3-", you cannot turn up the volume any more.



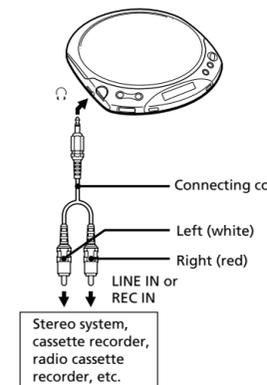
If you want to turn up the volume to more than "3-", hold down SOUND until "AVLS" disappears from the display.

Note

- If you use the sound function and the AVLS function at the same time, sound may be distorted. If this happens, turn down the volume.

Connecting to other stereo equipment

You can listen to the CD through other stereo equipment or record a CD on a cassette tape. Refer to the instruction manual of the other equipment for details. Before making connections, turn off each piece of equipment.



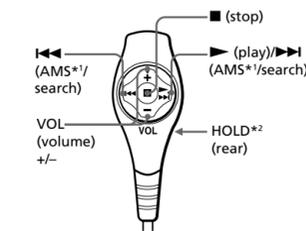
Notes

- Before you play the CD, turn down the volume of the connected equipment so as not to damage the connected speakers.
- If you turn up the volume to more than "8-", the sound may be distorted.

Continue to the reverse side →

Using the supplied remote control

You can use the remote control as the wired remote control.



*1 Automatic Music Sensor

*2 When you are not using the remote control, slide HOLD in the direction of the arrow to prevent any accidental operations. To unlock, slide HOLD back.

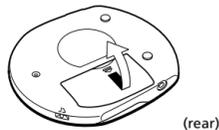
►Power Sources

Using the rechargeable batteries

Charge the rechargeable batteries before using them for the first time. You can use only the following rechargeable batteries for your CD player.

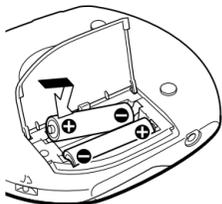
- NC-WMAA
- NH-WM2AA

- 1 Open the battery compartment lid.

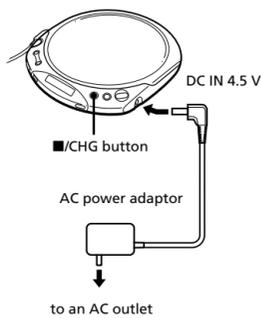


(rear)

- 2 Insert two rechargeable batteries by matching the ⊕ to the diagram in the battery compartment and close the lid.



- 3 Connect the AC power adaptor to the DC IN 4.5 V jack of your CD player and an AC outlet, then press ■/CHG to start charging.



to an AC outlet

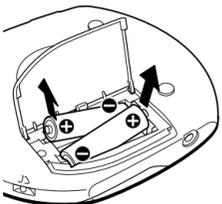
The CD player charges the batteries. The “CHC” indicator turns on in the display, and the indicator sections of light up in succession. When the batteries are completely charged, the “CHG” and indicators turn off.

If you press ■/CHG after the charge has already been completed, the indicator flashes and “Full” appears in the display.

- 4 Disconnect the AC power adaptor.

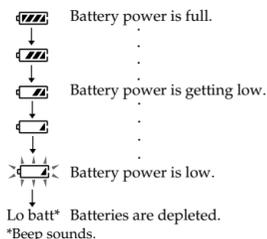
To remove the rechargeable batteries

Remove the batteries as illustrated below.



When to charge the rechargeable batteries

You can check the remaining power of the batteries in the display.



To keep the original battery capacity for a long time, charge the batteries only when they are completely depleted.

Notes

- The indicator sections of roughly shows the remaining battery power. One section does not always indicate one-fourth of the battery power.
- Depending on operating conditions, the indicator sections of may increase or decrease.

When to replace the rechargeable batteries

If the battery life becomes shorter by about half, replace the batteries with new rechargeable batteries.

Note on the rechargeable batteries

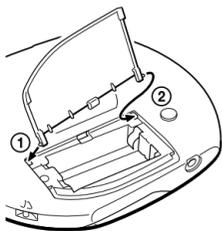
If the battery is new or has not been used for a long time, it may not be charged completely until you charge and discharge it several times.

Note on carrying the rechargeable batteries

Use the supplied battery carrying case to prevent unexpected heat. If the rechargeable batteries and the metallic objects are contacted, heat or fire may occur due to a short circuit.

To attach the battery compartment lid

If the battery compartment lid is detached by an accidental drop, excessive force, etc., attach it as illustrated below.



Using the dry batteries

Use only the following dry battery type for your CD player:

- LR6 (size AA) alkaline batteries

Note

Be sure to remove the AC power adaptor when using the dry batteries.

- 1 Open the lid of the battery compartment.

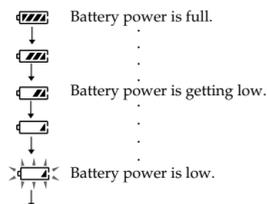
- 2 Insert two LR6 (size AA) alkaline batteries by matching the ⊕ to the diagram in the battery compartment.

To remove the batteries

Remove the batteries in the same way as rechargeable batteries.

When to replace the batteries

You can check the remaining power of the batteries in the display.



Lo batt* Batteries are depleted. *Beep sounds.

When the batteries are depleted, replace both batteries with new ones.

Battery life (approx. hours)(JEITA*)

Battery life varies depending on how the player is used.

	ESP OFF	ESP ON
Two NC-WMAA (charged for about 3 hours**)	7	11
NH-WM2AA (charged for about 8 hours**)	16	21
Two Sony alkaline batteries LR6(SG) (produced in Japan)	23	33

* Measured value by the standard of JEITA (Japan Electronics and Information Technology Industries Association). (When the CD player is used on a flat and stable place.)

** Charging time varies depending on how the rechargeable battery is used.

►Additional Information

Precautions

On safety

- Should any solid objects or liquid fall into the unit, unplug it and have it checked by qualified personnel before operating it any further.
- Do not put any foreign objects in the DC IN 4.5 V (external power input) jack.

On power sources

- When you are not using the CD player for a long time, disconnect all power sources from the player.

On the AC power adaptor

- Use only the supplied AC power adaptor. If your player is not supplied with it, use AC-E45HG AC power adaptor. Do not use any other AC power adaptor.

Polarity of the plug



- To unplug the AC power adaptor from the wall outlet, grasp the adaptor itself, do not pull its cord.

On rechargeable batteries and dry batteries

- Do not charge the dry batteries.
- Do not throw the batteries into fire.
- Do not carry the batteries with coins or other metallic objects. It can generate heat if the positive and negative terminals of the battery are accidentally contacted by a metallic object.
- Do not mix rechargeable batteries with dry batteries.
- Do not mix new batteries with old ones.
- Do not use different types of batteries together.
- When the batteries are not to be used for a long time, remove them.
- If battery leakage occurs, wipe off any deposit in the battery compartment, and install new batteries. In case the deposit adheres to you, wash it off thoroughly.

On the CD player

- Keep the lens of the CD player clean and do not touch it. If you do so, the lens may be damaged and the CD player will not operate properly.
- Do not put any heavy object on top of the player. The CD player and the CD may be damaged.
- Do not leave the CD player in a location near heat sources, or in a place subject to direct sunlight, excessive dust or sand, moisture, rain, mechanical shock, unlevelled surface, or in a car with its windows closed.
- If the CD player causes interference to radio or television reception, turn off the CD player or move it away from the radio or television.
- Discs with non-standard shapes (e.g., heart, square, star) cannot be played on this CD player. Attempting to do so may damage the CD player. Do not use such discs.

On headphones/earphones

Road safety

Do not use headphones/earphones while driving, cycling, or operating any motorized vehicle. It may create a traffic hazard and is illegal in some areas. It can also be potentially dangerous to play your headsets at high volume while walking, especially at pedestrian crossings. You should exercise extreme caution or discontinue use in potentially hazardous situations.

Preventing hearing damage

Avoid using headphones/earphones at high volume. Hearing experts advise against continuous, loud and extended play. If you experience a ringing in your ears, reduce volume or discontinue use.

Consideration for others

Keep the volume at a moderate level. This will allow you to hear outside sounds and to be considerate to the people around you.

Troubleshooting

Should any problem persist after you have made these checks, consult your nearest Sony dealer.

The CD does not play or “no d! 5C” appears in the display though a CD is placed in the CD player.

- The buttons are locked. Slide HOLD back.
- The CD is dirty or defective.
- Insert the CD with the label side up.
- Moisture condensation has occurred. Leave the CD player aside for several hours until the moisture evaporates.
- Close the lid of the CD player and the battery compartment firmly.
- Make sure the batteries are inserted correctly.
- Connect the AC power adaptor to a wall outlet securely.
- 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.

“00” appears in the display for a moment, and disappears. The CD does not play.

- Rechargeable batteries are used up completely. Charge the batteries.
- Replace the batteries with new LR6 (size AA) alkaline batteries.

No sound, or noise is heard.

- Connect the plugs firmly.
- Plugs are dirty. Clean the plugs with a dry soft cloth periodically.

“Hi dC l n” appears in the display.

- Use only the supplied AC power adaptor or AC power adaptor AC-E45HG (not supplied).
- Remove all power sources, then insert the batteries or connect the AC power adaptor again.

“Hol d” appears in the display when you press a button.

- The buttons are locked. Slide HOLD back.

The indication appears in the display when you press a button.

- Rechargeable batteries are used up completely. Charge the batteries.
- Replace the batteries with new LR6 (size AA) alkaline batteries.

The battery life is short.

- Manganese batteries are used. Use alkaline batteries.
- Replace the batteries with new ones.

The volume is limited to a certain level even if you attempt to turn it up.

- AVLS function keeps down the volume. Hold down SOUND until “AVLS” disappears from the display.

Playback starts from the point you stopped. (resume function)

- The resume function is working. To start playing from the first track, press ▶▶▶▶▶▶ for 2 seconds or more, or open the lid of the CD player. Or remove all power sources, then insert the batteries or connect the AC power adaptor again.

When closing the lid of the CD player, the CD starts to rotate.

- The CD player is reading the information on the CD. It is not malfunctioning.

You cannot operate the CD player properly using the remote control.

- The buttons on the CD player are kept pressed by mistake.

Specifications

System

Compact disc digital audio system

Laser diode properties

Material: GaAlAs
Wavelength: $\lambda = 780 \text{ nm}$
Emission duration: Continuous
Laser output: Less than $44.6 \mu\text{W}$ (This output is the value measured at a distance of 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)

Error correction

Sony Super Strategy Cross Interleave Reed Solomon Code

D-A conversion

1-bit quartz time-axis control

Frequency response

20 - 20 000 Hz $\pm 1 \text{ dB}$ (measured by JEITA CP-307)

Output (at 4.5 V input level)

Headphones (stereo minijack)
Approx. 10 mW + approx. 10 mW at 16 Ω

Power requirements

For the area code of the model you purchased, check the upper left side of the bar code on the package.

- Two Sony NC-WMAA rechargeable batteries: 2.4 V DC
- Sony NH-WM2AA rechargeable batteries: 2.4 V DC
- Two LR6 (size AA) batteries: 3 V DC
- AC power adaptor (DC IN 4.5 V jack):
U/U2/CA2/E92/MX2/TW2/BR3 model: 120 V, 60 Hz
CED/CEX/CET/CEW/CE7/EE/EE1/E13/G5/G6/G7/G8/BR1 model: 220 - 230 V, 50/60 Hz
CEK/3CE7 model: 230 - 240 V, 50 Hz
AU2 model: 240 V, 50 Hz
JE.W/E33/EA3/KR4 model: 100 - 240 V, 50/60 Hz
HK2 model: 220 V, 50/60 Hz
AR1/CNA model: 220 V, 50 Hz

Dimensions (w/h/d) (without projecting parts and controls)

Approx. 130.6 × 26.3 × 150.5 mm
(5 1/4 × 1 1/16 × 6 in.)

Mass (excluding accessories)

Approx. 190 g (6.8 oz)

Operating temperature

5°C - 35°C (41°F - 95°F)

Supplied accessories

For the area code of the model you purchased, check the upper left side of the bar code on the package.

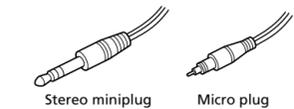
- AC power adaptor (1)
- Headphones/earphones with remote control (1)
- Rechargeable batteries (2)
- Battery carrying case (1)

Design and specifications are subject to change without notice.

Optional accessories

Car connecting pack CPA-9C
Car battery cord with car connecting pack DCC-E34CP
Car battery cord DCC-E345
Active speaker system SRS-A17
Connecting cord RK-G129, RK-G136
Rechargeable batteries NH-WM2AA
AC power adaptor AC-E45HG
Stereo headphones* MDR-EX70LP, MDR-E848LP

* When using optional headphones, use only headphones with stereo miniplugs. You cannot use headphones with micro plugs.



Your dealer may not handle some of the accessories listed above. Please ask the dealer for detailed information about the accessories in your country.