

# 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-E220  
D-E221

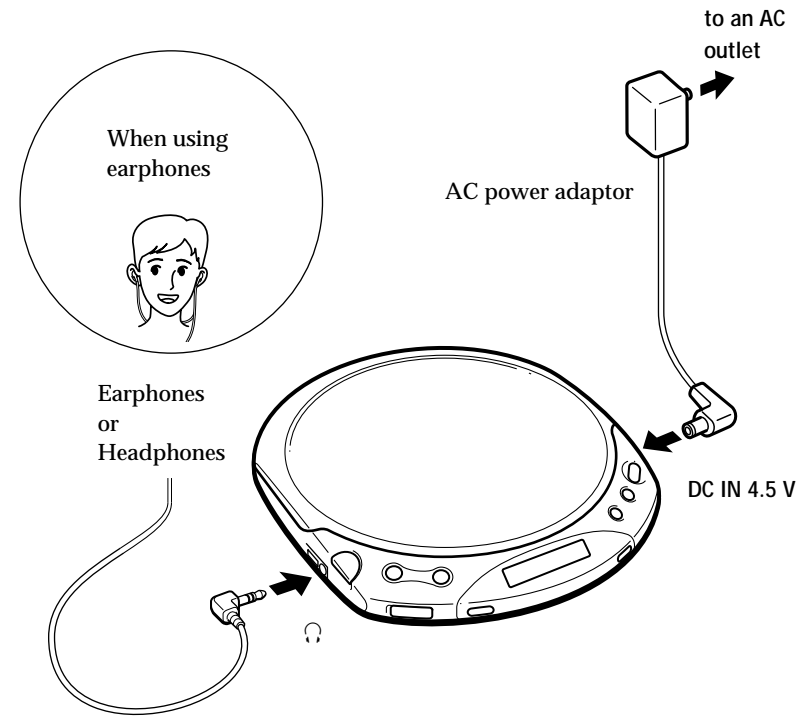
Sony Corporation ©2001

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

# 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: dry batteries (see "Power Sources" on the reverse side) and car battery.

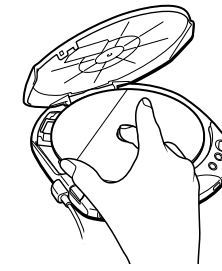
## 1 Connect



To	Press
Find the beginning of the current track (AMS*)	◀◀ once
Find the beginning of previous tracks (AMS)	◀◀ repeatedly
Find the beginning of the next track (AMS)	▶▶ once
Find the beginning of succeeding tracks (AMS)	▶▶ repeatedly
Go forward quickly	Hold down ▶▶▶
Go backwards quickly	Hold down ◀◀◀

\* AMS = Automatic Music Sensor

**To remove the CD**  
Remove the CD while pressing the pivot.

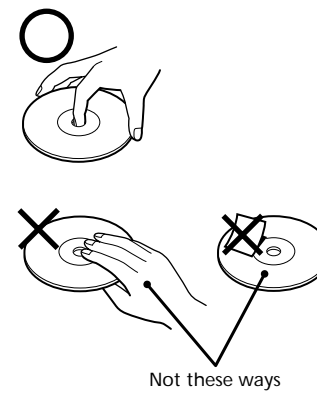


**Notes on display**

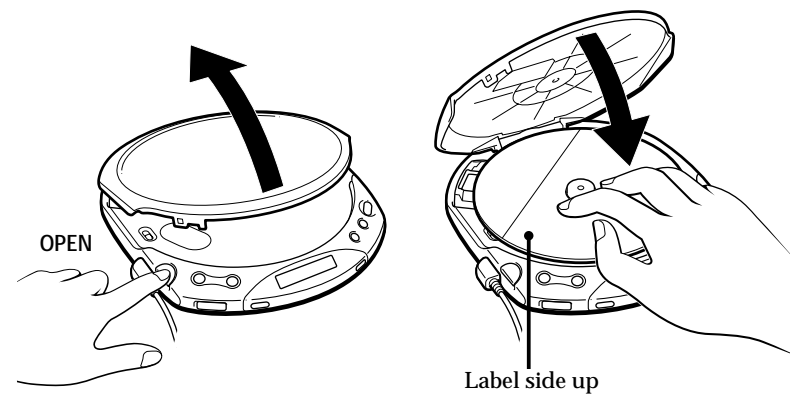
- When you press ▶▶▶, the total number of tracks in the CD and the total playing time appear.
- During play, the track number and the elapsed playing time of the current track appear.

**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.

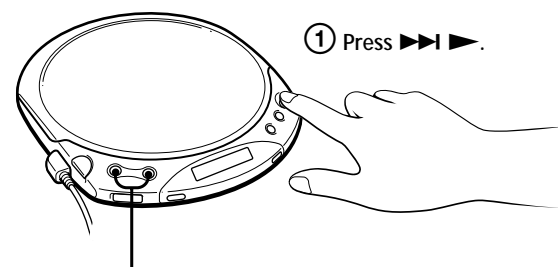


## 2 Place a CD



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

## 3 Play



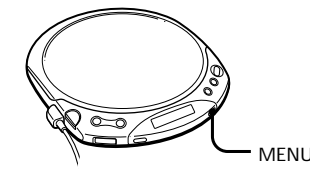
② Adjust the volume.

To stop play, press ■/CHG.

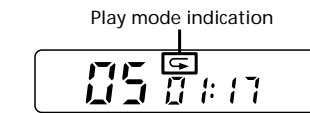
## ▶Other Operations

### 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.

**"G" (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.

**"G 1" (Repeat play — a single track)**  
The player plays a single track you've selected repeatedly.

**"G SHUF" (Repeat shuffle play)**  
The player plays all the track on the CD in random order repeatedly.

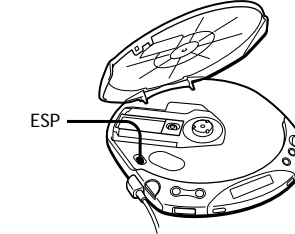
\* During Repeat play, you can locate the first track after the last track by pressing ▶▶▶ repeatedly. You can also locate the last track after first track by pressing ◀◀◀ repeatedly.

## Using other functions

### To maximize the skip protection performance (ESP MAX)

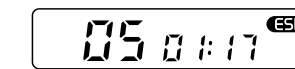
The typical ESP (Electronic Shock Protection) function minimizes skipping by using a buffer memory that stores music data and plays it back in the event of a shock. The ESP MAX system is an extremely sophisticated technology. Due to the light weight and improved anti-shock characteristics of the optical 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."

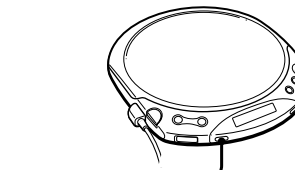


### Notes

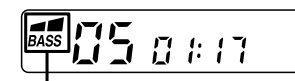
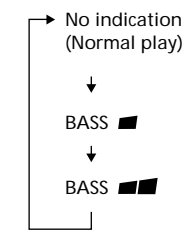
- Playing may stop when the CD player gets a strong shock even with the ESP MAX function on.
- You may hear a noise or sound may skip when:
  - listening to a dirty or scratched CD,
  - listening to an audio test CD or,
  - the player receives continuous shock.

### To enjoy more powerful bass sound (Digital MEGA BASS)

You can emphasize the bass-boosted sound.



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



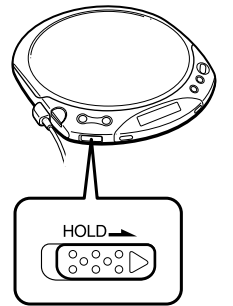
The selected sound mode is displayed.

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

### Note

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

**To lock the buttons**  
You can lock your CD player against any accidental operations.

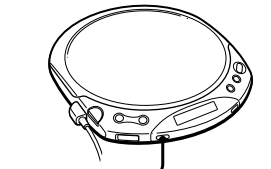


Slide HOLD in the direction of the arrow. When you press any button, "Hol d" appears in the display and you cannot operate the CD player.

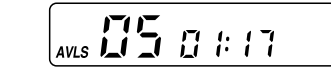
To unlock, slide HOLD in the opposite direction of the arrow.

### To protect your hearing (AVLS)

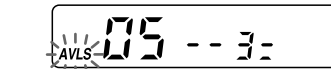
The AVLS (Automatic Volume Limiter System) function keeps down the maximum volume to protect your ears.



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.



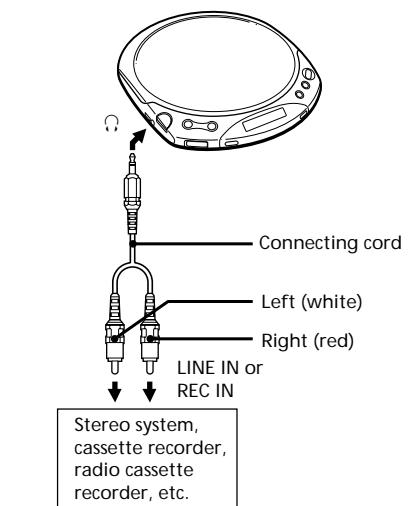
If you want to turn up the volume to more than "3-", hold down SOUND until "AVLS" disappears from the display.

### 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.



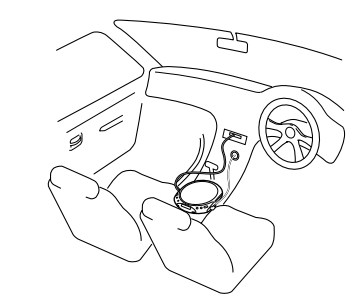
### Notes

- 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 →

## Playing a CD in a car

You can use your CD player in a car as illustrated below.



To connect your CD player to a car cassette deck, you need the following accessories:

- Car connecting pack
- Car battery cord

You cannot use the car mount plate for this CD player. Refer to the instruction manual of each accessory for details.

### Notes

- Do not put the CD player on the dashboard.
- Do not leave the CD player in a car parked under sunlight.
- If the sound is distorted, press SOUND until the BASS indication disappears from the display.
- Use a Sony car connecting pack for reducing noise.
- Use only the car battery cord listed in the optional accessories. If you use any other car battery cord, smoke, fire or malfunction may occur.

### Switched ignition function (when using the car battery cord)

With this feature, your CD player stops automatically when you turn off the engine of the car. (This function is not possible with some cars depending on the model.)

## ►Power Sources

## Using the dry batteries

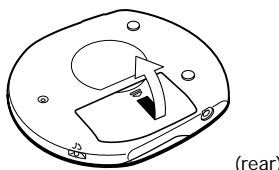
Use only the following dry battery type for your CD player:

- LR6 (size AA) alkaline batteries

### Note

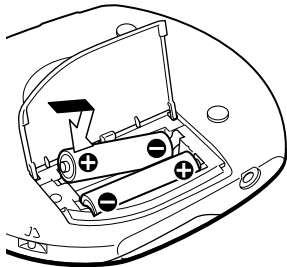
- Be sure to remove the AC power adaptor when using the dry batteries.

- 1 Open the battery compartment lid.



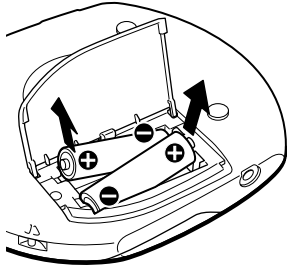
(rear)

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



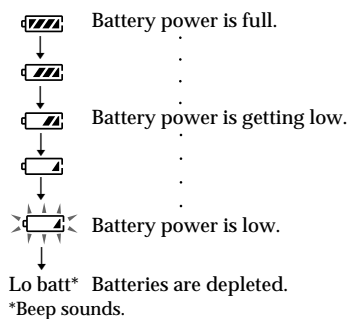
### To remove the batteries

Remove the batteries as illustrated below.



### When to replace the batteries

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



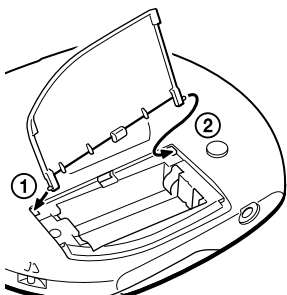
When the batteries are depleted, replace both batteries with new ones.

### 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.

### 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.



### Battery life (approx. hours)(EIAJ\*)

Battery life varies depending on how the player is used.

	ESP OFF	ESP ON
Two Sony alkaline batteries LR6(SG)	25	24

\* Measured value by the standard of EIAJ (Electronic Industries Association of Japan). (When the unit is used on a flat and stable place.)

## ►Additional Information

## Precautions

### On safety

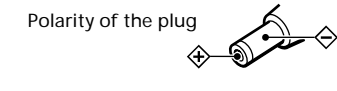
- Should any solid objects or liquid fall into the unit, unplug it and have it checked by qualified personnel before operating it any further.
- Do not put any foreign objects in the DC IN 4.5 V (external power input) jack.

### 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.



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

### On 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 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 player will not operate properly.
- Do not put any heavy object on top of the player. The unit 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.
- Do not wrap the CD player in a cloth or blanket during use as it may cause malfunction or serious accidents.
- 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.

#### Caring 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.

## Maintenance

### To clean the casing

Use a soft cloth slightly moistened in water or a mild detergent solution. Do not use alcohol, benzine or thinner.

## Troubleshooting

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

### The CD does not play or “no dI SC” appears in the display though a CD is placed in the unit.

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

### When you press ►►►, “00” appears in the display for a moment, and disappears. The CD does not play.

- Dry batteries are used up. Replace them 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.

### “Hl dC l n” appears in the display.

- Use only the supplied AC power adaptor or AC power adaptor AC-E45HG (not supplied).

### “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.

- Dry batteries are used up. Replace them 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 rechargeable batteries cannot be charged in the battery compartment of this CD player.

- This CD player does not have the function to charge the rechargeable batteries.

### 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.

- The resume function is working. Open the lid of the CD player; or remove all power sources, then insert the batteries or connect the AC power adaptor again.

## Specifications

### CD player

#### System

Compact disc digital audio system

#### Laser diode properties

Material: GaAlAs

Wavelength: λ = 780 nm

Emission duration: Continuous

Laser output: Less than 44.6 μW (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  $\pm$ 1dB (measured by EIAJ CP-307)

#### Output (at 4.5 V input level)

Headphones (stereo minijack)

Approx. 12 mW + approx. 12 mW at 16 Ω

### General

#### Power requirements

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

- 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 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. 130.0 × 26.3 × 150.5 mm

Mass (excluding accessories)

Approx. 205 g

Operating temperature

5°C - 35°C

### Supplied accessories

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

D-E220

Headphones/earphones (1)

D-E221

AC power adaptor (1)

Headphones/earphones (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

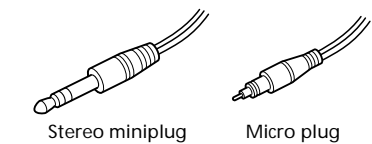
Active speaker system SRS-A21

Connecting cord RK-G129, RK-G136

AC power adaptor AC-E45HG

Stereo headphones\* MDR-EX70LP

\* 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 above listed accessories. Please ask the dealer for detailed information about the accessories in your country.