

SONY

3-769-848-23 (2)

Compact Disc Compact Player

COMPACT
disc
DIGITAL AUDIO

D-4

Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.

Owner's Record

The model number is located at the rear, and the serial number is located at the bottom. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. D-4 Serial No. _____



Discman

- Extremely compact size for easy carrying
- Various lock functions for preventing accidental operation
- Rechargeable battery operation

Sony Corporation © 1988 Printed in Japan

WARNING

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

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

INFORMATION

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause 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 the receiving antenna
- Relocate the equipment with respect to the receiver
- Move the equipment away from the receiver
- Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

CAUTION

The use of optical instruments with this product will increase eye hazard.

Maintenance

Cleaning the Casing

Clean the casing with a soft cloth slightly moistened with water or mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine as they may mar the finish of the casing.

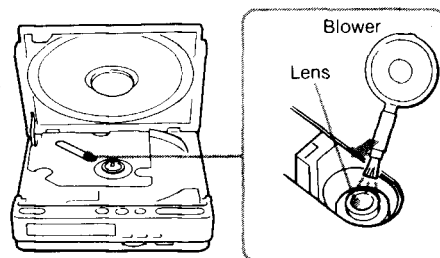
Cleaning the Lens

If you have accidentally touched the lens with a dirty finger or if the dust on the lens prevents the unit from operating properly, open the disc compartment lid and clean the lens.

To remove dust

Blow on the lens a few times with a commercially available blower, brush the dust away in the direction of the arrow, then blow on the lens again.

If the lens is still dirty after you have followed the above instructions and the unit still does not function properly, please consult your nearest Sony dealer.



Notes on Compact Discs

Do not expose the disc 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 the temperature inside the car.

Before playing, clean the disc with the optional cleaning cloth.
Wipe the disc from the center out.

Do not use solvents such as benzene, thinner, commercially available cleaners or anti-static spray intended for analog discs.

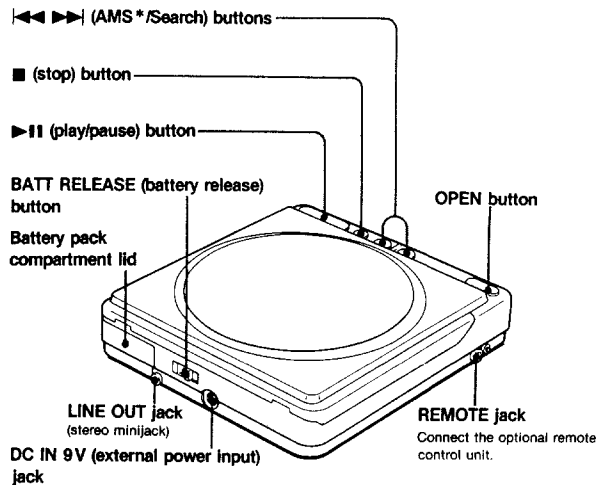
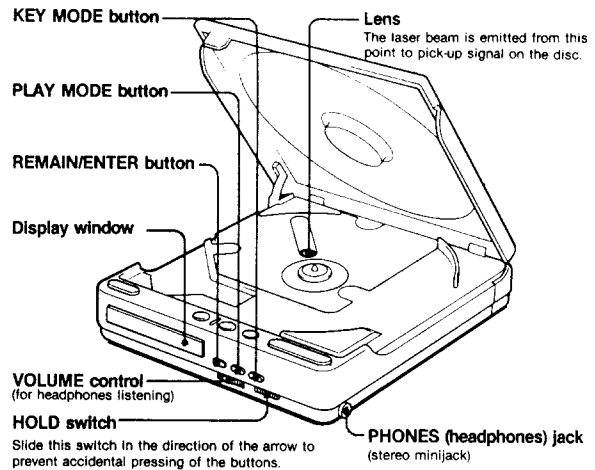


After playing, store the disc in its case.

Cleaning the Headphones Plug

Keep the plug of your headphones clean to obtain the optimum sound. Wipe it with a dry, soft cloth.

Location and Function of Controls



*AMS is an abbreviation of Automatic Music Sensor.

Specifications

CD section

System

Laser diode properties

Compact disc digital audio system

Material: GaAlAs

Wavelength: 780nm

Emission duration: Continuous

Laser output: Less than 44.6 μ W

(This output is the value measured at a distance of about 1.6mm from the objective lens surface on the Optical Pick-up Block.)

Frequency response

Output (at 9V input level)

20-20,000 Hz \pm 1dB (Measured by EIAJ CP-307)

Line output (stereo minijack)

Output level 1V rms at 47 kilohms

Load impedance over 10 kilohms

Headphones (stereo minijack)

9mW+9mW at 32 ohms

General

Power requirements

Supplied:

- Rechargeable battery pack BP-3
- DC IN 9V jack accepts the Sony AC power adaptor (supplied) for use on 120V AC, 60Hz

Optional:

- Sony EBP-3 battery case using four size AA (LR6) batteries, 6V
- DC IN 9V accepts: Sony CPM-100P mount plate or CPM-100A plate arm for use on 12V car battery

Precautions

On safety

- As the laser beam used in this compact disc player is harmful to the eyes, **do not attempt to disassemble the casing**. Refer servicing to qualified personnel only.
- The lens on the disc table should be kept clean. **Do not touch the lens or poke at it**. If you do, the lens may be damaged and the player will not operate properly.
- **Do not wrap the player in a cloth, blanket, etc.** If you do, the temperature inside the player may rise, resulting in malfunction of the player.
- Should any solid object or liquid fall into the player, disconnect the power source and have the player checked by qualified personnel before operating it any further.
- When the unit will not be used for a long time, be sure to disconnect the power source (Rechargeable battery pack, AC power adaptor, or mount plate) from the unit. To remove the AC power adaptor from the wall outlet, grasp the adaptor itself; never pull it by the cord.

On power sources

Use the supplied rechargeable battery pack, house current, or a car battery.

For AC operation: Use the AC power adaptor supplied with this player. Do not use any other AC power adaptor as it may cause malfunction.

For car battery operation: Use the optional mount plate CPM-100P and car connecting pack CPA-1.

On operation

Since the CD system offers a wide dynamic range, the peaks of the high level inputs are recorded with high fidelity, and the noise level is very low. **Do not turn up the volume while listening to a portion with no audio signals or very low level inputs**. If you do, the speakers may be damaged when a peak level portion is played.

On installation

- Never put the unit:
 - near heat sources such as radiators or airducts.
 - in direct sunlight.
 - exposed excessive dust.
 - exposed moisture or rain.
 - exposed mechanical vibration or shock.
 - in an inclined position.
- If the player is brought directly from a cold location to a warm location, or is placed in a very damp room, moisture may condense on the lens inside the player. Should this occur, the player will not operate. In this case, **remove the disc and leave the player in a warm place for about an hour until the moisture evaporates**.
- For the unit to operate at its best, it should not be subjected to temperatures below 5°C (41°F) or above 35°C (95°F).

About the headphones

- Avoid playing your unit at so loud a volume that extended play might affect your hearing.
- **At a high volume outside sounds may become inaudible. Avoid listening to the disc in situations where hearing must not be impaired, for example, while driving or cycling.**
- If your headphones are of open-air design, sounds go out through the headphones. Remember not to disturb those close to you.

If you have any question or problem concerning your unit, please contact your nearest Sony dealer.

Notes on rechargeable battery pack

- **Do not charge the unit for more than 24 hours.** Overcharging may shorten the battery pack's life. The suitable charging time for the unit is approx. 8 hours.
- **Remember to recharge the unit after every use, no matter how short.** Leaving the unit discharged may shorten its life.
- If the unit will not be used for a long time, completely recharge it and remove it from the CD player and store in a dry, cool place.
Recharge it every six months while in storage.
- Do not throw the battery pack into fire.
- Do not short the battery terminal.
- If the electrolyte inside the battery pack should come into contact with cloth or skin, wash the contaminated objects with water immediately.
The electrolyte contains sulfuric acid.

Power consumption	1.2W DC
Dimension	Approx. 136×36.8×147 mm (5¼×1½×5¾ in.) (w/h/d) not incl. inclined part (depth), projecting parts and controls Approx. 137.5×38.8×149 mm (5½×1½×5¾ in.) (w/h/d) incl. projecting parts and controls
Weight	Approx. 480 g (1 lb 1 oz) net Approx. 660 g (1 lb 7 oz) incl. rechargeable battery pack
Supplied accessories	AC power adaptor (1) Rechargeable battery pack (1) Connecting cord (1) Carrying case (1) Carrying belt (1)
Supplied battery pack	
Output voltage	6V
Capacity	1000 m A/h
Dimensions	Approx. 31.3×17.3×118.6 mm (1¼×⅞×4¾ in.) (w/h/d)
Weight	Approx. 180 g (6½ oz)

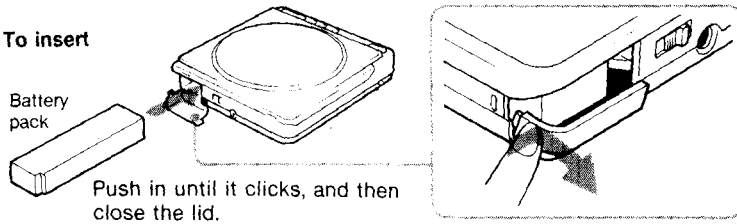
Design and specifications subject to change without notice.

Power Sources

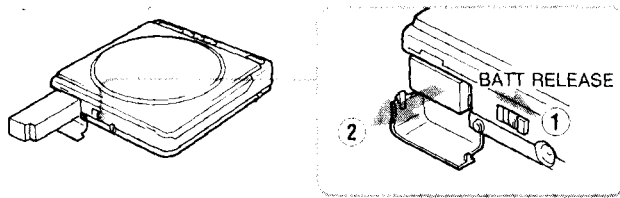
Using with Rechargeable Battery

Before using the battery pack for the first time, charge it for approx. 8 hours.

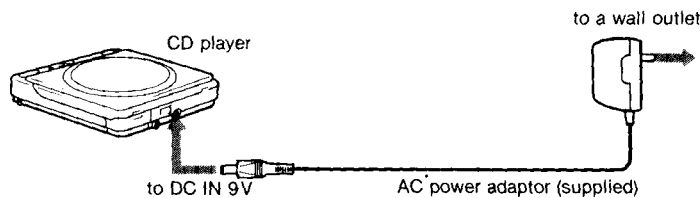
To insert



To remove



Charging rechargeable battery



When Using Batteries

Use the optional Sony EBP-3 battery case. Approximately 6 hours of continuous play is possible with four size AA (LR6) alkaline batteries.

Charging time/Battery life

Charging time	Continuous disc playing time
8 hours (fully charged)	approx. 4 hours
5 hours (90% charged)	approx. 3.5 hours

Notes on charging

- For charging, use only the supplied AC power adaptor. If not, the player will be damaged.
- The CD player can also be operated during charging. In this case, approx. 24 hours are necessary for a full charge. However, when the CD player does not operate normally, stop it and charge the unit for a while.
- BATT appears during play or pause, and blinks when the battery becomes weak. It also blinks when you press ►|| or ■, or when the player gets a shock, but it does not show the battery condition.

When to replace the battery pack

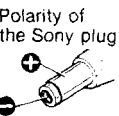
If the operating time of the CD player becomes shortened after it has been fully charged, change the battery pack.

Precaution

Since BATT RELEASE is locked when the lid is closed, do not slide it forcibly with the lid closed.

When the unit will not be used, be sure to disconnect the AC power adaptor.

Note: Use only the supplied AC power adaptor or the recommended car battery cord manufactured by Sony. Polarity of the plugs of other manufacturers may be different.



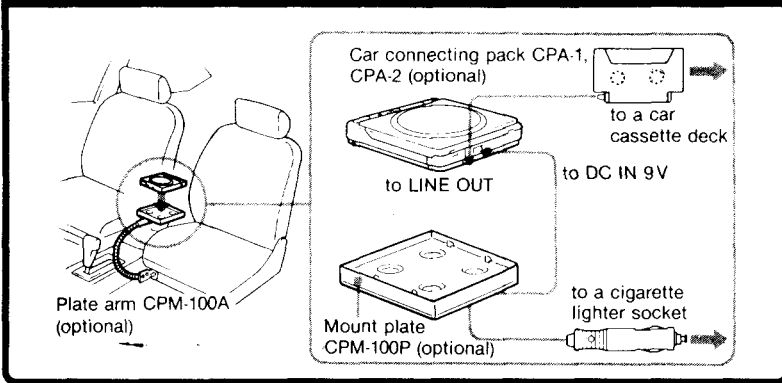
Using on House Current

Use the AC power adaptor (supplied).

Connect the supplied AC power adaptor in the same way as for charging the battery.

Various Way of Using

Listening in a Car



You can listen to the CD player through a car cassette deck by using the Sony CPA-1 (CPA-2) car connecting pack and the CPM-100P mount plate. (The Sony CPM-100A plate arm will facilitate attaching the mount plate to your car.)

Do not put the unit on a dashboard nor leave it in a car parked in sunlight since the temperature may rise excessively.

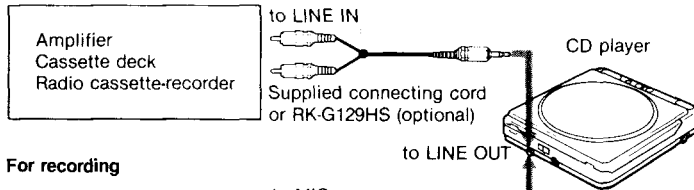
For details, refer to the instruction manual of each product.

Notes on connecting with the car battery

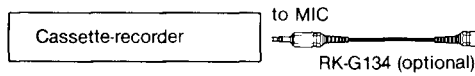
- Unplug the unit from the cigarette lighter socket when it is not being used. Otherwise, it may drain the car battery.
- Any connection other than with the CPA-1 (CPA-2) may cause noise.

Connecting with Other Equipment

For monitoring through speakers and for recording



For recording

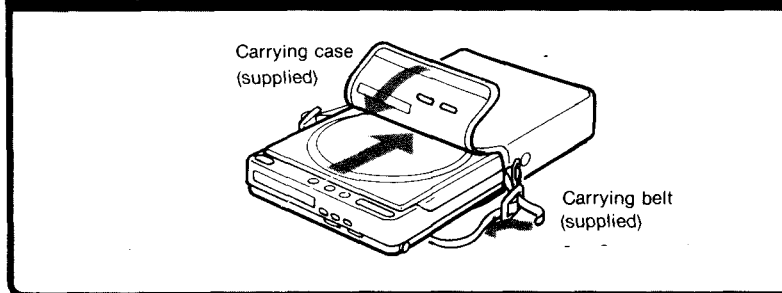


You can listen to the CD player through speakers, or record its sound.

Notes on connection

- Turn off the amplifier before making connections.
- Plug in the white plug to the L (left channel) jack, and the red plug to the R (right channel) jack.
- Be sure to insert the cable connectors firmly into the jacks. Loose connections may cause hum and noise.
- Be sure not to connect the CD player to the PHONO input jack of the amplifier.
- If the CD player causes interference to radio and television reception, turn off the player or move the player away from the receiver.

Carrying







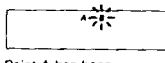

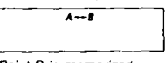



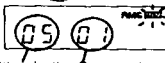

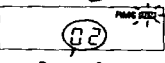

Using a remote commander

Use the Sony RM-DM1K (wireless) or RM-DM2 (wired) remote commander unit.

- Be sure to turn off the power **before** connecting.
- Disconnect the remote commander from the REMOTE jack when it is not being used.
- Use the RM-DM1K only when the power is supplied from the DC IN 9V jack.

Various Playing Modes

Each time PLAY MODE is pressed, play mode changes.
To stop the disc, press ■.

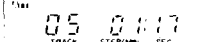
<p>Repeating one-selection —1 repeat</p>	<p>During play PLAY</p>  <p>TRACK STEP/MIN SEC</p> <p>After the current selection ends, the same selection will be repeated.</p>
<p>Repeating the whole disc —ALL repeat</p>	<p>During play PLAY</p>  <p>TRACK STEP/MIN SEC</p> <p>When play reaches the end of the disc, it restarts from the first selection.</p>
<p>Playing a particular portion repeatedly —A ↔ B repeat</p>	<p>During play PLAY</p>  <p>TRACK STEP/MIN SEC</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="723 364 908 617"> <p>1 At the starting point (A) of the repeat play</p>   <p>Point A has been memorized.</p> </div> <div data-bbox="908 364 1115 617"> <p>2 At the ending point (B)</p>   <p>Point B is memorized. Playing start from point A.</p> </div> </div>
<p>Playing in a random order —SHUFFLE repeat</p>	<p>During play PLAY</p>  <p>TRACK STEP/MIN SEC</p> <p>The selections in the disc will be played in a random order. After all the selections have been played, they will be reshuffled and played continuously in a different order each time.</p>
<p>Playing in the desired order —RMS (program)</p>	<p>During play PLAY</p>  <p>TRACK STEP/MIN SEC</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="723 779 908 965"> <p>1 Choose the desired selection.</p>   <p>5th selection Program 1</p> </div> <div data-bbox="908 779 1115 965"> <p>2</p>   <p>Program 2</p> </div> </div> <div style="display: flex; justify-content: space-around;"> <div data-bbox="723 965 908 1100"> <p>3 Repeat steps 1 and 2. (Up to 16 selections)</p> </div> <div data-bbox="908 965 1115 1100"> <p>4</p>  <p>MEM disappears and play begins.</p> </div> </div>

Press PLAY MODE to return to the normal play.

Using the time counter

Elapsed playing time

Shows 1 minute 17 seconds have elapsed from the beginning of the fifth selection



Remaining time of the selection being played

Press the REMAIN/ENTER button.

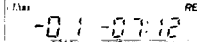
Shows 1 minute 21 seconds are remaining before the end of the fifth selection.



Remaining playing time

Press the REMAIN/ENTER button again.

Shows 1 selection and 7 minutes and 12 seconds are remaining before the end of the disc.



To return to the normal display

Press REMAIN/ENTER.

The REMAIN/ENTER button operates even while the HOLD function is in use.

During shuffle play

To locate the beginning of the selection being played
Press ◀◀

To locate the next selection
Press ▶▶

You cannot locate a previous selection even if you keep pressing ◀◀

Notes on program play

- When more than 16 selections are memorized, the previous programmed selection will be cleared and a new one will be memorized in its place.
- Blank spaces between selections are minimal during program play. If they are recorded as they are, the AMS function of the cassette-corder which works by searching for blank spaces, may not activate.

Notes on compact discs

Handle the disc by its edge.



Not this way

Do not touch the surface.

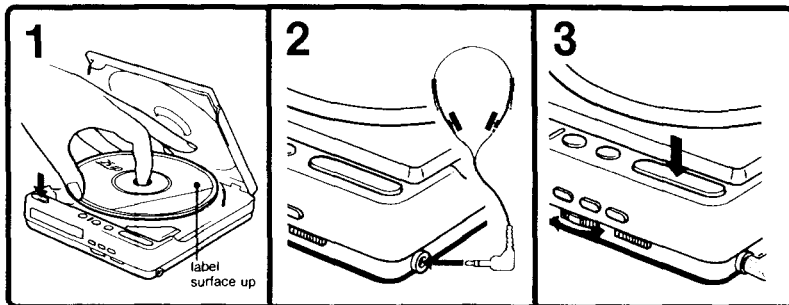
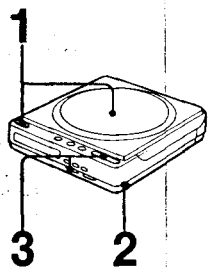


Not this way

Do not stick paper or tape nor write anything on the surface.



Disc Playing



To pause
Press **⏸**. (To play, press again.)

To stop
Press **■**.

To play 3 inch CD
You can play 3 inch CD without using an adaptor for it.

Note
If **⏸** is pressed with the disc inserted upside down, the TRACK indication "00" is displayed, however, the player will not enter the play mode. Press the OPEN button to open the lid, and re-insert the disc with the label side up.

Locating a Particular Portion

Each time KEY MODE is pressed, locating mode changes.

<p>Locating a particular selection—AMS</p>	<p>During play or pause</p> <p>KEY</p> <p>Display</p> <p>TRACK STEP/MIN SEC AMS</p> <p>To locate the beginning of the current selection</p> <p>To locate the next selection</p>
<p>Locating a particular point in a selection—SEARCH</p>	<p>During play or pause</p> <p>KEY</p> <p>Display</p> <p>TRACK STEP/MIN SEC SEARCH</p> <p>To go back at high speed</p> <p>To go ahead at high speed</p>

Press KEY MODE to return to the AMS function.

Notes on the AMS function

- The player pauses at the beginning of the located selection when you press **⏮** or **⏭** in the pause mode.
- During program play, AMS operates in the memorized order.

What is this indication?
appears if you continuously press **⏮** or **⏭** at the end of the disc.
To return to a TRACK indication, press **⏮**.

Troubleshooting Guide

Should any problem persist after you have made the following checks, consult your nearest Sony service facility.

Symptom	Cause and/or remedy
Disc play does not start.	<ul style="list-style-type: none">• The disc is inserted upside down. Insert the disc correctly with the label surface up.• Dusty or defective disc.• Dirty or dusty lens.• The disc compartment lid is not closed.• Moisture condensation. Leave the player in a warm place until the moisture evaporates.• The AC power adaptor is not plugged into the wall outlet.• The cord of the mount plate CPM-100P is not firmly connected.• The unit is not placed on a level surface.• The disc is incorrectly inserted.• The HOLD switch is set to the direction of the arrow.• Weak battery.
No sound from the headphones	<ul style="list-style-type: none">• The headphones plug is not firmly connected to the PHONES jack.• Adjust the volume control.• Dirty plug.
No sound from the connected speakers	<ul style="list-style-type: none">• Check the connections.• The amplifier is not turned on.
Skipping of sound	<ul style="list-style-type: none">• Dirty or defective disc.• Dirty lens.• Strong vibration.