Compact Disc Compact 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

For the customers not in Poland

The **B** mark on the unit is valid only for

For the customers not in Europe

For the customers not in Russia

The CE mark on the unit is valid only for products marketed in the

is valid only for products marketed

products marketed in Poland.

D-E554

Sony Corporation ©1998

Welcome!

Thank you for purchasing the Sony Compact Disc Compact Player. Before operating your player, please read this manual and retain it for future reference.

WARNING

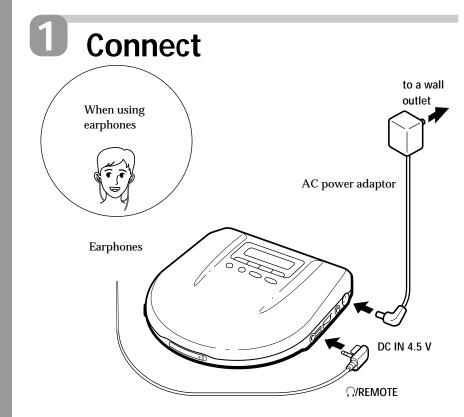
To prevent fire or shock hazard, do not expose the unit to rain or moisture.

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

The use of optical instruments with this product

Playing a CD right away!

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

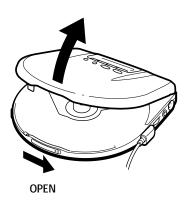


For models supplied with the AC plug adaptor

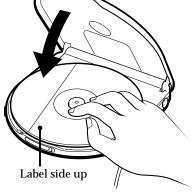
For models supplied with the remote control

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

Place a CD

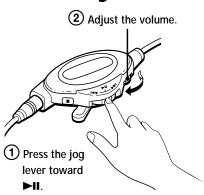


1 Slide OPEN to open the lid.



2 Fit the CD to the pivot. 3 Close the lid.

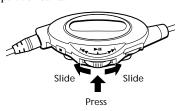
Play





To stop play, press ■.

To use the remote control The lever marked with ◄◄-►II-►►I is the jog lever. When you press or slide the lever,



То	Press the jog leve toward ►II.		
Pause			
Resume play after pause	Press the jog leve toward ►II.		
Find the beginning of the current track (AMS*)	Slide the jog lever toward ► once.**		
Find the beginning of previous tracks (AMS)	Slide the jog lever toward ► repeatedly.**		
Find the beginning of the next track (AMS)	Slide the jog lever toward ►►I once.**		
Find the beginning of succeeding tracks (AMS)	Slide the jog lever toward ►►I repeatedly.**		
Go forward quickly	Slide and hold the jog lever toward		
Go backwards quickly	Slide and hold the jog lever toward !◄◀ .**		

*AMS = Automatic Music Sensor **These operations are possible during both play and pause.

If you press RPT/ENT (REPEAT/ENTER on the player) to display " 🖚 ", you can locate the tracks continuously in the following order: When using ►►I: next track → next track

• When using \blacksquare : previous track \rightarrow previous

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

To remove the CD Remove the CD while



Notes on controlling the volume with the

Set the VOL (volume) control on the remote control to the maximum. Then adjust the volume on the player to the level that you want to be the maximum volume of the remote

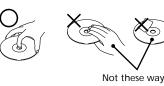
Notes on display

- When you press ►II (when RESUME is set to OFF), the total number of tracks in the CD and the total playing time appear for about 2
- During play, the track number and the elapsed playing time of the current track
- appear.During pause, the elapsed playing time
- flashes in the display.

 Between tracks, the time to the beginning of the next track will appear with the "-

Notes on handling CDs

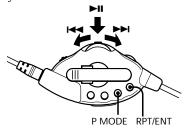
- To keep the CD clean, handle it by its edge. Do not touch the surface.
- Do not stick paper or tape onto the CD. • Do not expose the CD to direct sunlight or heat sources such as hot air ducts. Do not leave the CD in a car parked under direct



▶Other Operations

Playing tracks repeatedly (Repeat Play)

You can play tracks repeatedly in normal, INTRO PGM, shuffle or RMS (Random Music Sensor) play modes. Repeat all the tracks or only one track.



To repeat all the tracks Press RPT/ENT (REPEAT/ENTER on the player) during play. The " Time indication appears.



To cancel repeat play, press RPT/ENT again.

To repeat a single track

1 Press RPT/ENT while the track you want to repeat is playing. The "←" indication appears.



2 Press P (play) MODE (PLAY MODE on the player) repeatedly until "1" appears.

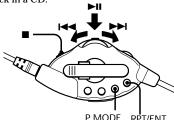


To repeat another track, slide the jog lever toward ► or ► I.

To cancel repeat play, press RPT/ENT again.

Playing only the tracks you want (INTRO PGM Play)

You can choose and play your favorite tracks by scanning through the beginning of each track in a CD.



1 During play, press P MODE repeatedly until "INTRO PGM" flashes.

0 100:05

2 Press the jog lever toward ►II to start

The player plays about the first 15 seconds of each track and "INTRO PGM"

3 Press RPT/ENT while the track you want is playing. To skip the track, slide the jog lever toward ▶ or just wait for the next

After you have gone through the CD, "INTRO PGM" stops flashing and the tracks you have chosen play automatically

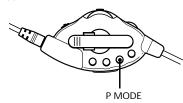
To finish programming before going through the whole CD, press the jog lever toward ►II. The selected tracks will be played.

If you press ■, the program will be erased To prevent accidental erasure, set the RESUME switch at the rear of the player to

To cancel INTRO PGM play, press P MODE repeatedly until the play mode indication disappears from the display.

Playing tracks in random order (Shuffle Play)

You can play the tracks in a CD in random



During play, press P MODE repeatedly until "SHUF" appears. The tracks play in random order.

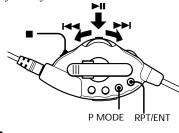


To cancel shuffle play, press P MODE repeatedly until the play mode indication disappears from the display.

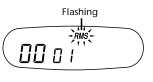
• During shuffle play, you cannot return to previous tracks by sliding the jog lever toward

Playing tracks in the order you want (RMS play)

You can program up to 22 tracks to play in

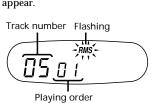


1 During play, press P MODE repeatedly until "RMS*" flashes.



*RMS = Random Music Sensor

2 Slide the jog lever toward $\ensuremath{\mbox{\ensuremath{\bowtie}}}$ or $\ensuremath{\mbox{\ensuremath{\triangleright}}}$ to choose a track. The track number and the playing order



3 Press RPT/ENT to program the track.

4 Repeat steps 2 and 3 to program the

5 Press the jog lever toward ►II. "RMS" stops flashing and the tracks you have chosen play in the order you

If you press \blacksquare , the program will be erased. To switch at the rear of the player to ON.

To cancel RMS play, press P MODE until

To check the program

During programming: Press RPT/ENT before step 5. During RMS play:

Press P MODE repeatedly until "RMS flashes, then press RPT/ENT. Each time you press RPT/ENT, the track number and the playing order appear in the order you specified.

• If you program another track after the 22nd track, the first track programed is cleared and the new track is programed instead.

Using other functions

To minimize skipping (ESP2) The ESP (Electronic Shock Protection) function minimize skipping by using a buffer

memory that stores music data and plays it back in the event of a shock. The new ESP^2 (ESP Squared) system uses a new DSP (Digital Signal Processor) which can read and store music data more efficiently, providing a level of continuous skip protection not found in traditional buffer memory units. This decreases the frequency of sound skipping and the need to utilize the buffer memory. Use this function when listening in a car or while walking.*

* Although ESP² provides excellent protection against skipping, it will not prevent skipping



The ESP indication appears



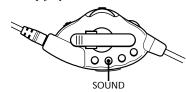
To release the ESP function, press ESP again.

- · Playing may stop when the player gets a strong shock even with the ESP function
- You may hear a noise or sound skip when: listening to a dirty or scratched CD,
 listening to an audio test CD or,
- the player receives continuous shock.
 Sound may drop for a while if you press ESP
- during play.

 When you use an optical digital connecting

cord, the ESP function will be disabled To enjoy more powerful bass sound

(Sound function) You can enjoy a powerful bass-boosted sound

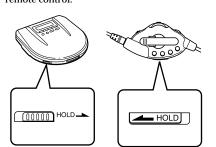


Press SOUND to select "MB (Mega Bass)" or "GRV (Groove)." "GRV" is more effective

• If the sound is distorted when emphasizing

To lock the buttons

You can lock your player against any accidental operation You can still operate the player with the

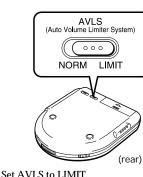


Slide HOLD in the direction of the arrow When you press any button, "Hal d" appears in the display and you cannot operate the player.

To unlock, slide HOLD back.

Continue to the reverse side >

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



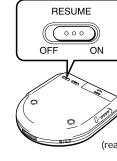
The AVLS indication appears



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

To resume playing from the point you stopped the CD (Resume Play) Normally, every time you stop and play,

playing starts from the beginning of the CD. The resume play function, however, lets you listen to from the point at which you last turned off the player.



Set RESUME to ON.

To cancel resume play, set RESUME to OFF.

• Even if RESUME is set to ON, playing starts

- from the beginning when you open the lid. The resume point may be inaccurate by about
- To turn off the beep

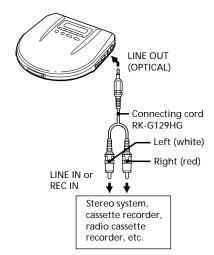
You can turn off the beep that sounds as you operate your player.

Disconnect the power source (AC power adaptor, rechargeable battery or alkaline batteries). While you press and hold down ■, connect the power source again. To make the beep sound again, disconnect the power source, and then connect it without pressing

Connecting to other stereo equipment

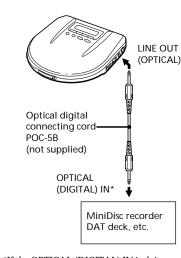
You can listen to the CD through other stereo equipment or record a CD on a cassette tape or a MiniDisc. Refer to the instruction manual of the other equipment for details. Before making connections, turn off each piece of equipment

Using the connecting cord



• When you use a connecting cord, the SOUND function will be disabled.

Using the optical digital connecting cord



*If the OPTICAL (DIGITAL) IN jack is squareshaped, use the POC-5AB optical digital cting cord instead.

Notes on connecting to other stereo equipment • Before you play the CD, turn down the volume

- of the connected equipment so as not to damage the connected speakers.
- The beep sound is not output from the LINE OUT (OPTICAL) jack.
- When you connect other equipment to the LINE OUT (OPTICAL) jack of this player, When you record a CD on a cassette tape using
- a tape recorder that has the blank search function, release the ESP function. If the ESP function is on, the blank search function does not work. • Use the AC power adaptor for recording. If
- you use the rechargeable batteries or dry batteries as a power source, batteries may become weak during recording.

Recording with optical digital connection

Record a CD on a MiniDisc. DAT, etc., according to the following procedure.

- 1 Press II on the player to start play

- 4 Press (record) on the MiniDisc recorder
- 5 Press ►II on the player to release pause.

Notes

- Connect the optical digital connecting cord while the player is in stop mode.

 • If you record without pausing the player, some
- CD may have problem with recording the first track number correctly. The SOLIND function works on the output
- from the \(\infty\)/REMOTE jack, but does not work on that from the LINE OUT (OPTICAL) jack
- When use an optical digital connecting cord, the ESP function will be disabled.

Playing a CD in a car

You can use your player in a car by connecting it to the car cassette deck.

You cannot use the car mount plate for this

When you use the player in a car, install it securely in a location which does not interfere

To connect your player to a car cassette deck, you need the following accessories:
• Car connecting pack CPA-9

- Car battery cord DCC-E245
- Car battery cord with car connecting pack DCC-E26CP Refer to the instruction manual of each

accessory for details.

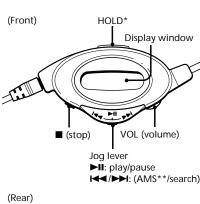
Notes

- Do not put the player on the dashboard.
- · Do not leave the player in a car parked under • Use a Sony car connecting pack for reducing
- Use only the car battery cord listed in the
- recommended accessories. If you use any other car battery cord, smoke, fire or

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

Using the supplied remote control

You can use the remote control as the wired



P (play) MODE RPT (repeat)/ SOUND 600 You can turn and change the angle of the clip

- 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
- Automatic Music Sensor
- ***Electronic Shock Protection

• Use only the supplied remote control. You

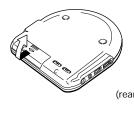
cannot operate this player with the remote control supplied with other models.

▶Power Sources

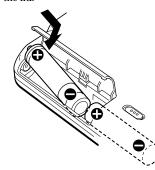
Using rechargeable batteries

Charge the rechargeable batteries before using them for the first time. Use the NH-DM2AA or NC-DMAA rechargeable batteries for this player. You cannot use any other rechargeable batteries.

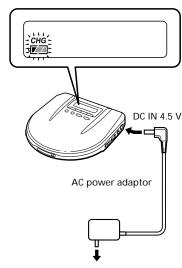
1 Open the lid of the battery compartment.



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



3 Connect the AC power adaptor. The indication "CHG" lights up. Charge for about 4 hours. (If the battery has been already charged, "CHG" and rale flash.)

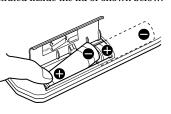


to a wall outlet

4 When fully charged, "CHG" disappears. Disconnect the AC power adaptor

To take out the rechargeable batteries

Take out the batteries in the proper way as



When to charge the rechargeable batteries

When the rechargeable batteries become weak, indication appears in the display. If the "Lo batt" appears in the display, charge the rechargeable batteries, because the batteries are used up. To keep the original battery capacity for a

long time, recharge the batteries when the batteries are used up (discharged).

When carrying the rechargeable battery

Make sure to use the battery carrying case (supplied with the rechargeable battery). If you carry the rechargeable battery with a metal object, short circuit, smoke or fire may

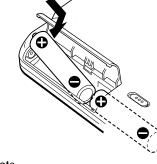
- Charging time varies depending on how the
- rechargeable battery is used. If the battery is new or has not been used for a long time, it may not be charged completely
- until you charge and discharge it several times.

 If the battery life becomes shorter by about half, replace it with Sony NH-DM2AA/NC-DMAA rechargeable battery. Do not use any other rechargeable battery

Using dry batteries

Insert the batteries properly in the same way as the rechargeable batterie

- **1** Disconnect the AC power adaptor and open the lid of the battery compartment
- 2 Insert two LR6 (size AA) alkaline batteries by matching the \oplus and \ominus to the diagram inside the battery compa and close the lid.



· Do not use manganese batteries for this player

To take out the dry batteries Take out the batteries properly in the same way as the rechargeable batteries.

When to replace the dry batteries

When the battery becomes weak. indication appears in the display. If the batteries are used up, "Lo bətt" appears in the display. Replace all the batteries with new

Notes

When using

- Do not charge the 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 the battery leakage occurs, wipe off any deposit in the battery compartment, and install

Battery life (approx. hours) (EIAJ*) Battery life varies depending on how the player is used.

ESP function

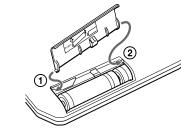
Two NH-DM2AA (charged for about 4 hours**)	12	11	
Two NC-DMAA (charged for about 4 hours**)	7	6	
Two Sony alkaline batteries LR6SG	20	18	

*Measured value by the standard of EIAJ (Electronic Industries Association of Japan) (When you use the player on a flat and stable place; When you do not use the optical digital nnecting cord)

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

How to attach the battery compartment lid

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



▶ Additional Information

Precautions

On safety

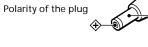
- Should any solid objects or liquid fall into the player, unplug it and have it checked by qualified personnel before operating it any
- Do not put any foreign objects in the DC IN
 4.5 V (external power input) jack.

On power sources

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

On the AC power adaptor

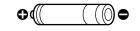
 Use only the supplied AC power adaptor. If your player is not supplied with it, use AC-E45HG AC power adaptor. Do not use any other AC power adaptor.



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

On dry and rechargeable batteries This player is designed so that it cannot charge any other rechargeable batteries or dry batteries

Optional rechargeable batteries NH-DM2AA/



Other rechargeable batteries or dry batteries



When you replace the rechargeable batteries with new ones, make sure to use the NH-DM2AA/NC-DMAA rechargeable 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

On the player

- Keep the lens on the player clean and do not touch it. If you do so, the lens may be damaged and the player will not operate
- Do not put any heavy object on top of the player. The player and the CD may be damaged. Do not leave the player in a location near heat
- sources, or in a place subject to direct sunlight, excessive dust or sand, moisture, rain, mechanical shock, unleveled surface, or in a car with its windows closed. • If the player causes interference to the radio or
- television reception, turn off the player or move it away from the radio or television.
- Do not wrap the player in a cloth or blanket during use as it may cause malfunction or

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

Preventing hearing damage

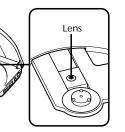
Avoid using headphones/earphones at high volume. Hearing experts advise against continuous, loud and extended play. If you experience a ringing in your ears, reduce volume

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 lens Clean the lens with a lens cleaning kit KK-DM1.



To clean the casing

Use a soft cloth slightly moistened in water o mild detergent solution. Do not use alcohol, stened in water or a 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 dl 50" appears in the display though a CD is placed in the player.

- → The CD is dirty or defective.→ Insert the CD with the label side up.
- → Moisture condensation has occurred Leave the player aside for several hours until the moisture evaporates.
- → Close the lid of the player and the battery compartment firmly.
- → Make sure the batteries are inserted
- → Connect the AC power adaptor to a wall When you press ►II, "00" appears in

the display for a moment, and disappears. The CD does not play. Rechargeable battery or dry batte

used up. Charge the rechargeable battery

→ Connect the plugs firmly.→ Plugs are dirty. Clean the plugs with a dry

No sound, or noise is heard.

soft cloth periodically

- "HI dc In" appears in the display. → Use only the supplied AC power adaptor or recommended AC power adaptor AC-
- E45HG (not supplied).

 → Use only the car battery cord listed in the Recommended accessorie
- "Hal d" appears in the display when you press a button.

The buttons are locked. Slide HOLD back. "Lo batt" appears in the display when you press a button.

- → The rechargeable batteries are used up completely. Connect the AC power adaptor and charge the batteries.
- → The dry batteries are use up. Replace them with new ones.

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

 \rightarrow AVLS selector is set to LIMIT. Set it to NORM. → The earphones are connected to the LINE OUT jack. Connect them to the ∩/

REMOTE jack. During recording with optical digital connection, the track number cannot be recorded correctly.

- → Record the track number again using the MiniDisc recorder, DAT recorder, etc.
- → Record again according to the procedure shown in the section "Connecting to other stereo equipment."

Specifications

CD player section 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 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

D-A conversion

1-bit quartz time-axis control

Frequency response 20 - 20,000 Hz +1/2 dB (measured by EIAJ CP-

Output (at 4.5 V input level)

Headphones (stereo minijack) 15 mW + 15 mW at 16 ohms

Line output (stereo minijack) Output level 0.7 V rms at 47 kilohms Recommended load impedance over 10

Optical digital output (optical output connector) Output level: -21 - -15 dBm Wavelength: 630 - 690 nm at peak level

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 Sony NH-DM2AA rechargeable batteries: 2.4 V DC
- Two Sony NC-DMAA rechargeable batteries: 2.4 V DC • Two LR6 (size AA) batteries: 3 V DC
- AC power adaptor (DC IN 4.5 V jack): U2/CA2/E92 model: 120 V, 60 Hz CED/CEX/CET/EE1/E13 model: 220 - 230 V, 50/60 Hz CEK model: 230 - 240 V. 50 Hz EA3 model: 110 - 240 V, 50/60 Hz
- AU2 model: 240 V. 50 Hz JE.W/E33 model: 100 - 240 V, 50/60 Hz HK2 model: 220 V. 50/60 Hz
- CN2/AR1 model: 220 V, 50 Hz • Sony DCC-E245 car battery cord for use on
- car battery: 4.5 V DC Dimensions (w/h/d) (without projecting parts
- and controls) Approx. $131.8 \times 23.9 \times 142.0 \text{ mm}$ $(5^{1/4} \times {}^{31/32} \times 5^{5/8} \text{ in.})$
- Mass (without rechargeable batteries) Approx. 200 g (7.0 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) Earphones with remote control (1)

AC plug adaptor (1)*

Carrying case (1) *1 Supplied with E13 model

Recommended accessories Car connecting pack CPA-9 Car battery cord with car conne

Design and specifications are subject to change

DCC-E26ČP Car battery cord DCC-E245 Active speaker system SRS-A21, SRS-A41,

SRS-A71 Rechargeable battery NH-DM2AA, NC-DMAA (2P) Connecting cord RK-G129HG

Optical digital connecting cord POC-5B, POC-10B, POC-15B, POC-5AB, POC-10AB, POC-15AB AC power adaptor AC-E45HG Stereo headphones MDR-35, MDR-E848LP*

* For the customers supplied with the headphones with remote control: When connecting optional headphones to the supplied remote control, use only headphones with stereo mini plugs. You

cannot use headphones with micro plugs

Stereo mini plug Micro plug

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