SONY

3-759-472-21(1)

Compact Disc Compact Player

Operating Instructions

Discman

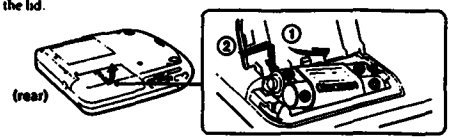
D-137CR

Sony Corporation © 1994 Printed in Japan

Power Sources

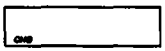
Using a Rechargeable Battery B

When using the rechargeable battery BP-DM10 (not supplied) for the first time, make sure to charge it.
Open the battery compartment lid and insert the rechargeable battery as illustrated inside the lid.



Charging the battery

1 Set the unit to stop mode and connect the supplied AC power adaptor.
"CHG" appears in the display window. It will disappear when charging is completed.



2 Disconnect the AC power adaptor from the unit and the wall outlet.

When to replace the rechargeable battery

If the operating time reduces about by half even if you charge it fully, replace it with a new BP-DM10 (not supplied) Do not use BP-DM1 battery pack (not supplied).

Notes on the rechargeable battery (Ni-Cd battery)

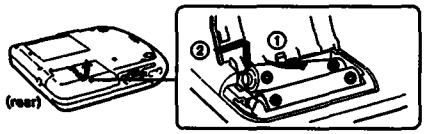
- Be sure to use the supplied AC power adaptor.
- When charging for the first time or after a long time, playing time may reduce. In this case, charge and discharge it several times
- Store the battery in a temperature between 5° C (41° F) and 35° C (95° F) to make it work at its best.
- Never throw the battery into fire.
- If any metal object touches the metal portion of the battery pack, excessive heat may be generated and it is dangerous. When carrying the battery pack, do not put it in a pocket together with a metal object such as a key holder.
- Do not disassemble the battery. If the electrolyte inside the battery should come into contact with cloth or skin, wash the contaminated objects with water immediately.

The unit may become warm

The bottom of the unit may be warm during operation, which is normal. If it is unusually warm, disconnect the AC power adaptor and consult your Sony dealer.

Using Batteries C

Insert two size AA (LR6) alkaline batteries (not supplied) in the battery compartment according to the ⊕ and ⊖ indications in the battery compartment.



Notes on batteries

- Insert batteries with correct polarity.
- Do not use old batteries together with new ones or different types of batteries together.
- If the electrolyte inside the battery should leak, wipe the contaminated parts in the battery compartment with a cloth and replace the old batteries with new ones.
- Do not charge the batteries.
- When the unit is not to be used for a long period of time, remove the batteries.

On ▭ indication

The ▭ indication appears in the display window to show that the battery is used up when the unit operates with either the rechargeable battery or the alkaline batteries. The indicator flashes when the battery becomes weak and the operation automatically stops. Then, the indicator stays lit. In this case, charge the rechargeable battery or replace all the alkaline batteries with new ones.

Life of the rechargeable battery or alkaline batteries

	CD playing
Rechargeable battery (charged for 2 hours maximum*)	approx. 3 hours
Two alkaline batteries	approx. 8 hours

(When the unit is used on a flat and stable place.)
* Charging time varies depending on how the rechargeable battery is used.

Using on House Current D

Connect the supplied AC power adaptor as illustrated in charging the rechargeable battery.
When the unit is not to be used, be sure to disconnect the AC power adaptor.

For the customers whose unit is supplied with an AC plug adaptor

Use the AC plug adaptor if the AC power adaptor does not fit the outlet.

Note on the AC power adaptor

Use only the supplied AC power adaptor (for DC 4.5 V, unified polarity type) or AC-E45HG AC power adaptor (not supplied). If you use any other AC power adaptors, the unit may be damaged. Do not use the AC power adaptor supplied with other "Discman" CD compact players equipped with DC IN 6 V or 9 V jack, nor an optional AC power adaptor for DC 6 V or 9 V.

Polarity of the plug (Unified polarity type)

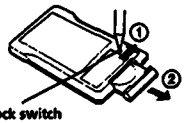
Replacing the Lithium Battery for the Remote Commander E

Lithium battery life

Your remote commander comes with a factory installed lithium battery.
When the remotely controllable area becomes smaller, replace the battery with a Sony CR2025 lithium battery (not supplied). Use of batteries other than CR2025 may cause a risk of fire or explosion. The new lithium battery usually lasts for approximately 6 months. (Its life span depends on how much it is used.)

To replace the lithium battery

1 Slide the lithium battery compartment in the direction of the arrow while pressing the lock switch to the right.



Lock switch

2 Replace the battery with a new lithium battery (CR2025).

+ side facing up

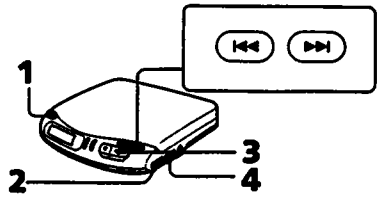
3 Install the lithium battery compartment as before.

Notes on lithium battery

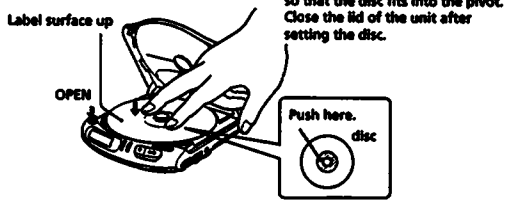
- Keep the lithium battery out of the reach of children. Should the battery be swallowed, immediately consult a doctor.
- Wipe the battery with a dry cloth to assure a good contact.
- Be sure to install the battery with the correct polarity.
- Do not hold the battery with metalic tweezers as doing so may cause a short-circuit.

WARNING
Battery may explode if mistreated.
Do not recharge, disassemble or dispose of in fire.

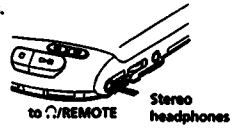
Disc Playing F



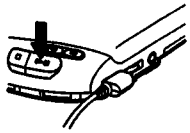
1 Open the lid and put the disc.



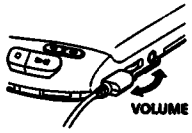
2 Connect the supplied headphones.



3 Press ▶II.



4 Adjust the volume.



Other operations on the main unit

Operations	Press	The following sound is heard.
To pause	▶II	Very short beep sound is repeated until the pause is released.
To release pause	▶II	Very short beep sound is heard once.
To stop	■	Long beep sound is heard. Disc stops playing and the power is turned off automatically.
To locate the beginning of the current track/previous tracks—AMS	⏮ once/repeatedly	Very short beep sound is heard three times.
To locate the beginning of the next track/tracks—AMS	⏭ once/repeatedly	Very short beep sound is heard twice.
To go back at high speed (search)	Keep ⏮ depressed.	No sound is heard.
To go ahead at high speed (search)	Keep ⏭ depressed.	No sound is heard.

- The unit pauses at the beginning of the located track when you press ⏮ or ⏭ once in the pause mode.
- During RMS (program) play, the AMS operates in the programed order.
- Each time you press ⏮, the player locates the previous track. Each time you press ⏭, the player locates the next track and stops at the last track.

Adjusting the volume with the remote commander

When you adjust the volume with the LEVEL buttons on the remote commander, the output level is displayed in 10 steps.

When the output level is maximum. -- 10

When the output level is minimum. -- 01

Note

The LEVEL setting with the remote commander is memorized as long as a rechargeable battery or alkaline batteries are installed in the unit even if the AC power adaptor is removed.

To remove the disc

Pick up the disc, holding the edge, while pressing the pivot gently as illustrated.

To play an 8 cm (3-inch) disc

You can play it without an adaptor.

To limit the volume at a moderate level

The AVLS (Automatic Volume Limiter System) selector allows you to limit the maximum volume of your unit.

- When the AVLS selector is set to either position 1 or 2, the volume will be kept at a moderate level, even if you attempt to turn up the volume.
- When the AVLS selector is set to either position 1 or 2, the playback sound may be distorted or unstable depending on the music (especially bass boosted part). If this happens, turn down the volume.
- When the AVLS selector is turned off, you will be able to enjoy the full volume capability of your unit.

AVLS OFF 1 2

To enjoy more powerful bass sound

(When using the headphones)

Set BASS BOOST to the desired position. You can then enjoy a powerful bass-boosted sound.

BASS BOOST NORM MID MAX

Notes

- The effect of the BASS BOOST function may be decreased according to the position of the volume control or the recording level of the disc.
- Sound may be cracked or distorted if you set the volume too high. In this case, turn down the volume.

To eliminate the beep sound

Do not connect any power source. While keeping ■ pressed, connect the power source (the rechargeable battery pack, alkaline batteries, or external power source).

Now, the beep sound is eliminated and this condition remains as long as the power source is connected.

The beep sound is not output from the LINE OUT jack.

On display window

When you use the unit on the rechargeable battery or alkaline batteries, the display window is illuminated for about 5 seconds when you press an operating button (except for ■ and OPEN). If you do not want the display window to be illuminated, see "To make the display window not to be illuminated".

When you use the unit on the AC power adaptor or car battery, the display window is always illuminated. (The illumination goes out when you press ■ or then the disc stops.)

When you press ▶II (When RESUME is set to OFF)

The output level appears first and then the total number of tracks in the disc and the total playing time appear for 2 seconds.

Example

00 -- 10

Track number — Output level

07 56:15

Total number of the tracks — Total playing time

During play

The track number and the elapsed playing time of the current track appear.

05 01:17

1 min. 17 sec. has elapsed from the beginning of the fifth track.

During pause

The elapsed playing time of the current track flashes.

05 01:17

Pause mode at the point 1 min. 17 sec. from the beginning of the fifth track

Between the tracks

The time to the beginning of the next track will appear.

03-00:02

2 sec. to the beginning of the 3rd track

To make the display window not to be illuminated

You can make the display window not to be illuminated when using the unit on the rechargeable battery or alkaline batteries.

1. Disconnect the power sources (external power source, rechargeable battery, alkaline batteries).
2. While keeping PLAY MODE pressed, insert the rechargeable battery or alkaline batteries.

The illumination setting remains as long as the rechargeable battery or alkaline batteries are not removed.

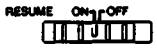
Locking the Buttons

Slide the HOLD switch in the direction of arrow to avoid accidental pressing of the buttons.

"Hold" appears in the display window of the unit if you press any button on the unit when the HOLD switch on the unit is set to the direction of arrow.

To Play from Where You Have Stopped — Resume Play Function

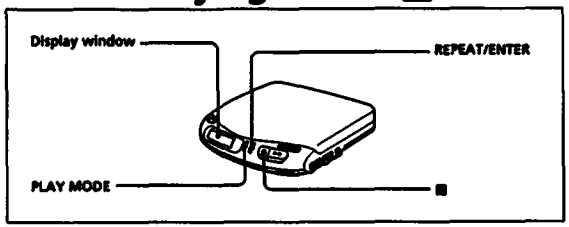
Set the RESUME switch to the ON position. When you press ▶II, the play starts from where you have pressed ■.



Notes

- If you open the lid after pressing ■, the memory of the position where you pressed ■ is removed, thus canceling the resume function although the RESUME switch is still set to ON. The play starts from the first track.
- Resume play may start at a point about 30 seconds behind or ahead the point where you pressed ■ if you remove the batteries or the rechargeable battery.

Various Playing Modes G



This unit has 10 playing modes: normal play, INTRO PGM play, one track play, SHUF (Shuffle) play, RMS* (program) play and 5 repeat plays of each mode.

* RMS Random Music Sensor

To change the mode

Press PLAY MODE during play. The current mode appears in the display window.

To play repeatedly (REPEAT play)

Press REPEAT/ENTER. ⇄ appears in the display window. Press the button again to cancel the repeat play.

To stop the disc

Press ■.

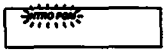
Playing the Whole Disc — Normal Play

There is no play mode indication in the display window.

To repeat the whole disc
Press REPEAT/ENTER.

Playing the Desired Tracks After Listening to the Beginning of All the Tracks — INTRO PGM Play

1 Press PLAY MODE during play until "INTRO PGM" flashes slowly in the display window.



2 Press ▶II.
"INTRO PGM" starts flashing fast and the unit starts to play the first 15 (approximately) seconds of each track from the first track.

3 During 15 seconds of play, press REPEAT/ENTER if it is your desired track.
When it is not your desired track, do not press any button during 15 seconds of play, or press ▶▶I to skip the track. Select your desired tracks in this way. After the beginning of the last track is played, "INTRO PGM" stops flashing and the selected tracks will be played automatically in the order of the track number of the disc.

To finish programing before hearing through the disc
Press ▶II. The selected tracks are played.

To try the programing again
Press I◀◀ to go back while programing. As the programing of the tracks returned is canceled, select the desired tracks from that point.

To repeat the programed tracks
Press REPEAT/ENTER while they are played.

To repeat the beginning of all the tracks
Press REPEAT/ENTER first and then press PLAY MODE until "INTRO PGM" flashes. Then press ▶II. If you did not enter any tracks in the program, the beginning of all the tracks will be repeated.

Playing Only One Track

Press PLAY MODE during play until "1" appears in the display window.

The unit plays only one track and stops at the end of the track.

To play only one track repeatedly
Press REPEAT/ENTER.

Playing the Tracks in a Random Order — Shuffle Play

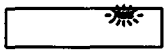
Press PLAY MODE during play until "SHUF" appears in the display window.
Play starts from the next track.

To play the tracks in a random order repeatedly
Press REPEAT/ENTER. After all the tracks have been played in a random order, they will be reshuffled and played repeatedly in a different order each time.

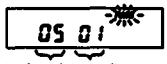
During shuffle play
To locate the beginning of the forthcoming tracks, press ▶▶I repeatedly.
To locate the beginning of the current track, press I◀◀. Even if you continue to press I◀◀, the player will not go back to the previous track. The play starts from the beginning of the current track.

Playing the Tracks in the Desired Order — RMS (Program) Play

1 Press PLAY MODE during play until "RMS" flashes in the display window.

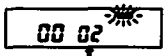


2 Press I◀◀ or ▶▶I to select the desired track.
You can program the tracks in the desired order regardless of their track numbers.



Desired track number — The first selection

3 Press REPEAT/ENTER*.



The 2nd (next) selection

4 Repeat steps 2 and 3 (up to 22 tracks).
If another track is entered after 22 tracks have been stored, the first track will be cleared and the new one will be stored in its place.

5 Press ▶II.
"RMS" stops flashing and play starts.

* When the REPEAT/ENTER button is pressed for more than 1 second, the total number and the total time of the programed tracks will appear in the display window while the REPEAT/ENTER button is pressed.
If a disc contains 32 tracks or more and you wish to program the 32th track or a track after that, or if the total playing time exceeds 100 minutes, the total playing time of the program will not be displayed.
("- - : - -" indication will appear instead.)
However it is possible to program such tracks.

To repeat program play
Press REPEAT/ENTER.

To check the program
Press REPEAT/ENTER before step 5. Each time you press the button, the track numbers appear in the order you specified.

Various Ways of Using H

Refer to the operating manual of each equipment for more details.

Listening in a Car

You can listen to the disc through a car cassette deck by using the following equipment.

- Mount arm CPM-300PK
- Plate arm CPM-300A
- Mount plate CPM-300P
- Car connecting pack CPA-4, CPA-8
- Mount kit CPM-300PC (CPM-300P + Car connecting pack)
- Mount kit CPM-300CK (CPM-300A + CPM-300P + Car connecting pack)

When you use the CPM-300P mount plate

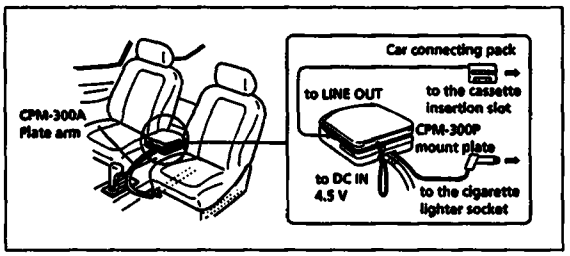
First, attach the car mount adaptor which is supplied with CPM-300P to the mount plate, then install the CD player.

When you turn off the engine

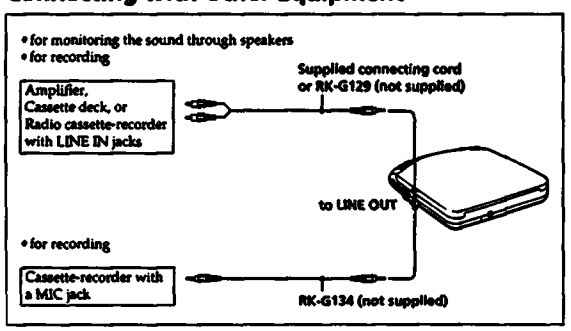
Even when the alkaline batteries are inserted in the unit, the unit stops operations when you turn off the engine of the car. (Switched ignition function) This function is not available with every model of the car. If not, press ■ to stop operation.

Note

- Any connection other than with a Sony Car connecting pack may cause noise.
- When you use the unit in a car, set the AVLS selector to "OFF".



Connecting with Other Equipment



Notes on connection

- Turn off each equipment before making connections.
- Plug in the white plug to the L (left channel) jack, and the red plug to the R (right channel) jack.
- Do not connect the output from LINE OUT with the PHONO jacks of the amplifier.
- Make sure to insert the plugs of the cable firmly into the jacks. A loose connection may cause a humming noise.
- If the unit causes interference to the radio or television reception, turn off the unit or move the unit away from the receiver.

Troubleshooting Guide

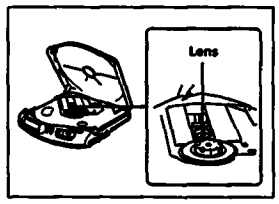
Should any problem persist after you have made the following checks, consult your nearest Sony service facility.

Symptom	Cause and/or solution
Disc play does not start.	• The HOLD switch is set to the direction of arrow. • The disc is inserted upside down or incorrectly. → Insert the disc correctly with the label surface up. • Dusty or defective disc • Dirty or dusty lens • The disc compartment lid is not closed firmly. • Moisture condensation → Leave the unit in a warm place until the moisture evaporates. • The AC power adaptor is not plugged into the wall outlet. • The unit is not placed on a level surface. • Weak rechargeable battery or alkaline batteries
No sound from the headphones	• The headphones plug is not firmly connected to the Ω/REMOTE jack. • Adjust the VOLUME control. • Dirty plug
No sound from the connected speakers	• Check the connections. • The amplifier is not turned on.
Skipping of sound	• Dirty or defective disc • Dirty lens • Strong vibration
The "no disc" indication appears in the display window.	• Place the CD with the label surface up. • Replace the CD if the CD is badly damaged.
The "Hi dc in" indication appears in the display window.	• Use the supplied AC power adaptor or the AC-E45HG AC power adaptor (not supplied).
"Hold" appears when you press a button on the unit.	• The HOLD switch on the unit is set to the direction of arrow.
When using with batteries, the battery life is short.	• Manganese batteries are used. → Use alkaline batteries.
The volume is limited to a certain level even if you attempt to turn it up.	• The AVLS selector is set to "1" or "2". → Set it to "OFF".
Remote commander does not operate.	• Replace the lithium battery. • Point the head portion of the remote commander toward the signal sensor of the unit.

Maintenance I

Cleaning the Lens

If you have accidentally touched the lens with dirty fingers or if dust on the lens prevents the unit from operating properly, open the disc compartment lid and clean the lens with lens cleaning kit (KK-DM1, not supplied).



Cleaning the Headphones Plug

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

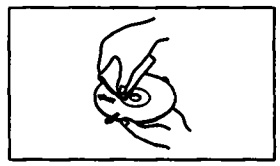
Cleaning the Casing

Clean the casing with a soft cloth slightly moistened with water or a 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.

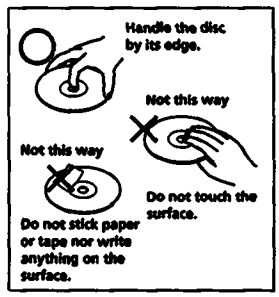
Notes on Compact Discs

- Before playing, clean the disc with a cleaning cloth. Wipe the disc from the center out.
- Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for analog 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.
- After playing, store the disc in its case.

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



Handling the Disc



Location and Function of Controls A

1 Lens
The laser beam is emitted from this point to pick-up signal on the disc
2 OPEN button
3 HOLD switch
4 Display window
5 Signal sensor
6 PLAY MODE button
7 REPEAT/ENTER button
8 BASS BOOST switch
9 Battery compartment
10 LINE OUT jack (stereo minijack)
11 VOLUME control (for listening through headphones)
12 ∩/REMOTE (headphones/remote) jack
13 ⏮/⏭ (AMS*/search) buttons
14 AVLS** selector
15 ▶II (play/pause) button
16 ■ (stop) button
17 DC IN 4.5 V jack (external power input)
18 RESUME switch

* AMS: Automatic Music Sensor
** AVLS: Automatic Volume Limiter System

Card remote commander

19 ■ (stop) button
20 ▶II (play/pause) button
21 REPEAT button
Press once during disc playing. The unit will be in the repeat play mode.
Press again to release the repeat play mode.
22 Direct select buttons
During disc playing, press to select the desired track number of the disc.
<How to select>
12th track:
Press +10 → 2.
24th track:
Press +10 → +10 → 4.
30th track:
Press +10 → +10 → 10.
23 ⏮ • ⏭ (AMS/search) buttons
24 LEVEL +, – buttons
Adjust the headphones output and line output levels.
25 Lithium battery compartment

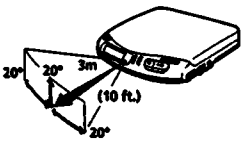
Note on the remote commander

Be sure that the signal sensor on the unit is not exposed to direct sunlight or bright light as from fluorescent light, which could prevent the remote commander from operating correctly.

You cannot operate the remote commander when the power is not supplied through the DC IN 4.5 V jack.

Remotely controllable area

When you use the card remote commander, the controllable area is as illustrated.
Point the card remote commander toward the signal sensor of the unit.



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.
- Do not put any foreign objects in the safety slot inside the disc compartment. If you do so, the laser beam may come out when the lid is opened.
- Do not put any foreign objects in the DC IN 4.5 V (external power input) jack.
- Should any solid objects or liquid fall into the unit, disconnect the power supply and have the unit checked by qualified personnel before operating it any further.

On power sources

- Use the rechargeable battery BP-DM10 (not supplied), batteries (not supplied) or house current.
- For AC operation: Use the AC power adaptor supplied with this unit or the AC-E45HG AC power adaptor (not supplied). Do not use any other AC power adaptor as it may cause malfunction.
- For car battery operation. Use the car mount arm (not supplied) or mount plate (not supplied) and car connecting pack (not supplied).
- If the unit is not going to be used for a long period of time, be sure to disconnect the power supply (AC power adaptor, the rechargeable battery or the batteries 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.
- The nameplate indicating operating voltage, power consumption, etc. is located on the bottom exterior. (AC power adaptor for Middle East only.)

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 part of disc with no audio signals or very low level inputs.** If you do so, the speakers may be damaged when the peak level of the sound is played.
- The lens on the disc table should be kept clean. Do not touch the lens or poke at it. If you do so, the lens may be damaged and the unit will not operate properly.

On installation

- Never install the unit where it would be subject to:
  - heat sources such as radiators or airducts.
  - direct sunlight.
  - excessive dust.
  - moisture or rain.
  - mechanical vibration or shock.
  - unleveled surface.
- Do not put the unit on a dashboard nor leave it in a car parked in sunlight since the temperature may rise excessively.
- When the unit is used with the AC power adaptor, do not wrap the unit in a cloth, blanket, etc. If you do so, the temperature inside and outside the unit may rise considerably, resulting in malfunctioning of the unit or serious accidents.
- Do not put any heavy object on top of the unit. The unit and the disc may be damaged.
- If the unit is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens inside the unit. Should this occur, the unit will not operate. **In this case, remove the disc and leave the unit in a warm place for several hours 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).

Notes on headphones

- **Road safety**
  Do not use headphones 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 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.

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

Specifications

System Compact disc digital audio system

Laser diode properties Material: GaAIAs
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.)

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 ±1 dB
(measured by EIAJ CP-307)

Output (at 4.5 V input level)
Line output (stereo minijack)
Output level 0.7 V rms at 47 kilohms
Recommended load impedance over 10 kilohms
Headphones (stereo minijack)
12 mW + 12 mW at 16 ohms

General

Power requirements
Supplied:
- DC IN 4.5 V jack accepts the Sony AC power adaptor for use on:

Where purchased	Operating voltage
European and Asian countries	220 – 230 V AC, 50 Hz
U.S.A., Canada, Central and South America	120 V AC, 60 Hz
Middle East	110 – 240 V AC, 50/60 Hz
United Kingdom, Australia	240 V AC, 50 Hz
Other countries	100 – 240 V AC, 50/60 Hz

Not supplied:
- Rechargeable battery BP-DM10
- DC 3 V, two size AA (LR6) alkaline batteries
- DC IN 4.5 V accepts the Sony CPM-300PK mount arm for use on car battery

Dimensions Approx. 130 × 30.5 × 142 mm (5 1/8 × 1 1/4 × 5 5/8 in.)
(w/h/d) incl. projecting parts and controls

Mass Approx. 260 g (9.2 oz) not incl. rechargeable battery

Supplied accessories
AC power adaptor (1)
Connecting cord (phono plug × 2 ↔ stereo miniplug) (1)
Stereo headphones (1)
Card remote commander (1)
Lithium battery (1)

Design and specifications are subject to change without notice.

Optional accessories
Mount arm CPM-300PK
Car connecting pack CPA-4, CPA-8
Car battery cord DCC-E245HG
Active speaker system SRS-58
Rechargeable battery BP-DM10
AC power adaptor AC-E45HG
Car connecting cord RK-G129, RK-G134

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

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.

Owner's Record

The model number and the serial number are 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-137CR Serial No. _____

CAUTION

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

For the Customers in the United Kingdom

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the bottom exterior.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

INFORMATION (For the Customers in U.S.A.)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful 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 or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

For the Customers in Canada

THIS APPARATUS COMPLIES WITH THE CLASS B LIMITS FOR RADIO NOISE EMISSIONS SET OUT IN RADIO INTERFERENCE REGULATIONS.

For the Customers in Australia

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