

SONY

3-862-395-11 (1)

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.



D-ES52CK

Sony Corporation ©1998 Printed in Japan

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.

Owner's Record

The model and the serial numbers 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-ES52CK Serial No. _____

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.

CAUTION

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

INFORMATION

Listening for many hours at maximum volume may damage your hearing.

For the customers in the USA

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 Australia

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

For the customers not in Poland


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

For the customers not in Europe



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

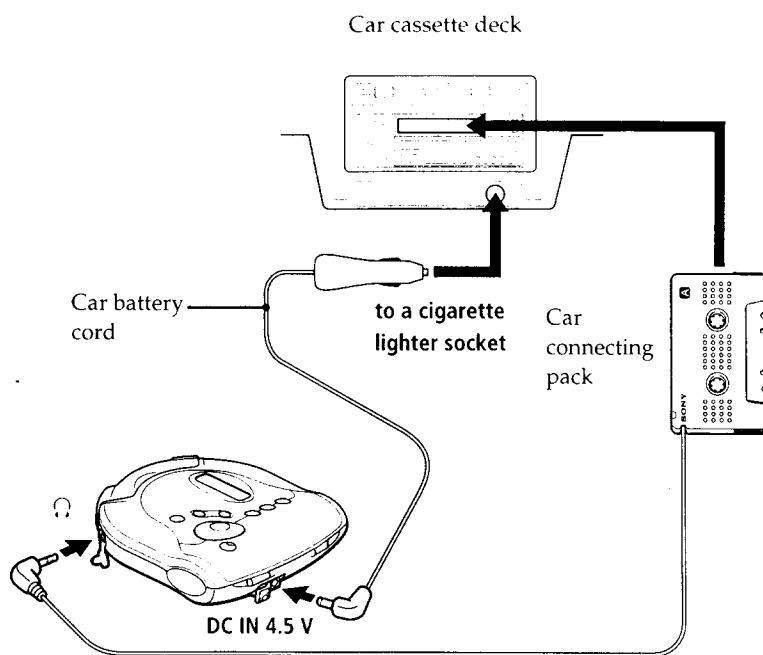
For the customers not in Russia

The  mark on the unit and package is valid only for products marketed in Russia.

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.

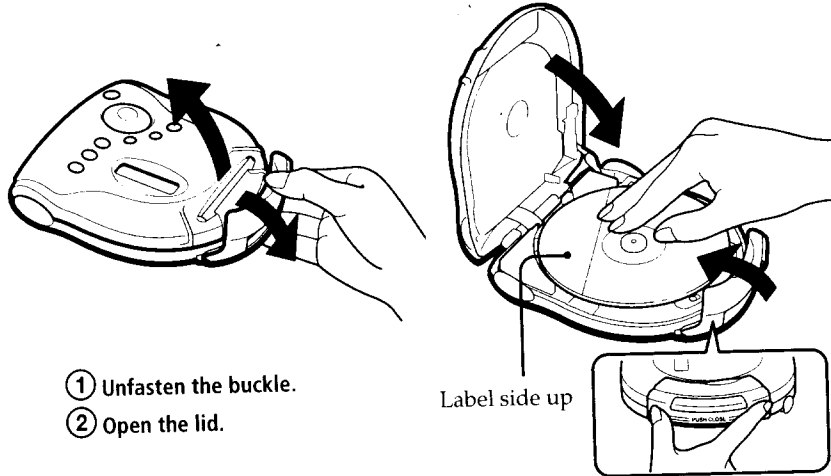
1 Connect



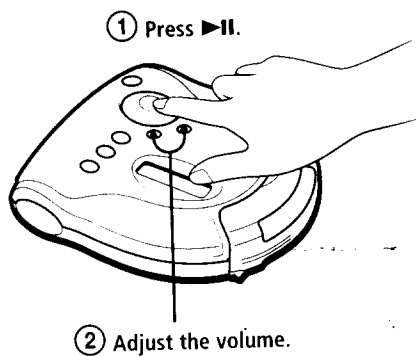
Note

Turn down the volume of the car cassette deck before inserting the car connecting pack.

2 Place a CD



3 Play



To stop play, press ■.

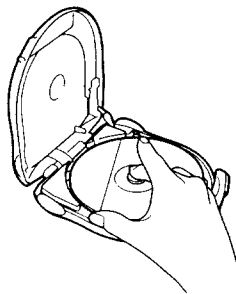
To	Press
Pause	▶
Resume play after pause	▶
Find the beginning of the current track (AMS*)	◀◀ once**
Find the beginning of previous tracks (AMS)	◀◀ repeatedly**
Find the beginning of the next track (AMS)	▶▶ once**
Find the beginning of succeeding tracks (AMS)	▶▶ repeatedly**
Go forward quickly	Hold down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

*AMS = Automatic Music Sensor

**These operations are possible during both play and pause.

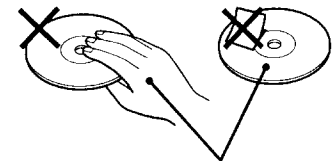
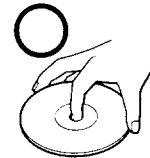
To remove the CD

Remove the CD while pressing the pivot.



Notes on handling CDs

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



Not these ways

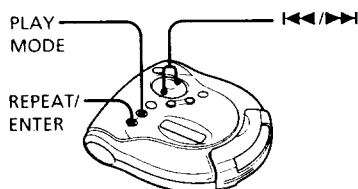
Notes on display

- When you press ▶|| (when RESUME is set to OFF), the total number of tracks in the CD and the total playing time appear for about 2 seconds.
- 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 "--" indication.

►Other Operations

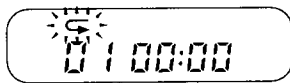
Playing tracks repeatedly (Repeat Play)

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

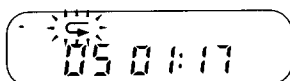
Press REPEAT/ENTER during play. The "G" indication appears.



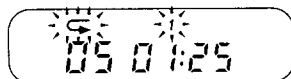
To cancel repeat play, press REPEAT/ENTER again.

To repeat a single track

1 Press REPEAT/ENTER while the track you want to repeat is playing. The "G" indication appears.



2 Press PLAY MODE repeatedly until "1" appears.

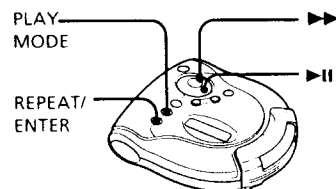


To repeat another track, press ◀◀ or ▶▶.

To cancel repeat play, press REPEAT/ENTER again.

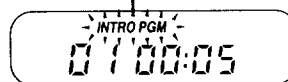
Playing only the tracks you want (INTRO PGM Play)

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



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

Flashing



2 Press ▶▶ to start scanning. The player plays about the first 15 seconds of each track and "INTRO PGM" flashes faster.

3 Press REPEAT/ENTER while the track you want is playing. To skip the track, press ▶▶ or just wait for the next track.

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

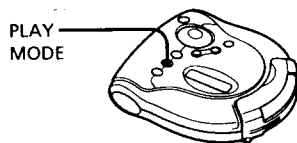
To finish programming before going through the whole CD, press ▶▶. The selected tracks will be played.

If you press ■, the program will be erased. To prevent accidental erasure, set the RESUME switch to ON.

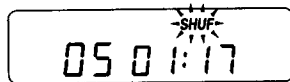
To cancel INTRO PGM play, press PLAY MODE repeatedly until the play mode indication disappears from the display.

Playing tracks in random order (Shuffle Play)

You can play the tracks in a CD in random order:



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



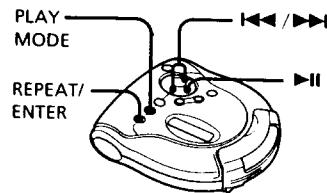
To cancel shuffle play, press PLAY MODE repeatedly until the play mode indication disappears from the display.

Note

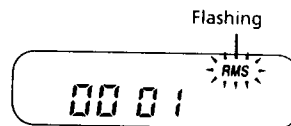
- During shuffle play, you cannot return to previous tracks by pressing <<<.

Playing tracks in the order you want (RMS Play)

You can program up to 22 tracks to play in any order you choose.

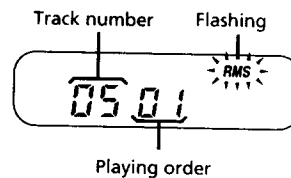


- 1 During play, press PLAY MODE repeatedly until "RMS" flashes.



*RMS = Random Music Sensor

- 2 Press <<< or >>> to choose a track. The track number and the playing order appear.



- 3 Press REPEAT/ENTER to program the track.
- 4 Repeat steps 2 and 3 to program the remaining tracks.
- 5 Press >>>. "RMS" stops flashing and the tracks you have chosen play in the order you specified.

If you press ■, the program will be erased. To prevent accidental erasure, set the RESUME switch to ON.

To cancel RMS play, press PLAY MODE until "RMS" disappears.

To check the program

During programming:

Press REPEAT/ENTER before step 5.

During RMS play:

Press PLAY MODE repeatedly until "RMS" flashes, then press REPEAT/ENTER.

Each time you press REPEAT/ENTER, the track number and the playing order appear in the order you specified.

Note

- If you program another track after the 22nd track, the first track programmed is cleared and the new track is programmed 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.

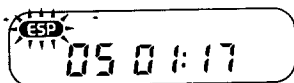
The new ESP² (ESP Squared) system uses a new DSP (Digital Signal Processor) which can read and store music data more efficiently, providing a level of continuous skip protection not found in traditional buffer memory units. This decreases the frequency of sound skipping and the need to utilize the buffer memory. Use this function when listening in a car or while walking.*

* Although ESP² provides excellent protection against skipping, it will not prevent skipping while jogging or running.



Press ESP.
The ESP indication appears.

To release the ESP function, press ESP again.

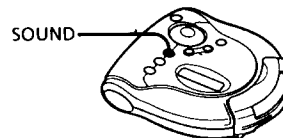


Notes

- Playing may stop when the player gets a strong shock even with the ESP function on.
- 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.

To enjoy more powerful bass sound (Sound function)

You can enjoy a powerful bass-boosted sound.



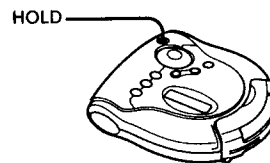
Press SOUND to select "BASS" or "GROOVE."
"GROOVE" is more effective.


Note


- If the sound is distorted when emphasizing bass, turn down the volume.

To lock the buttons

You can lock your player against any accidental operations.

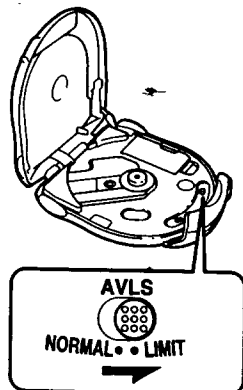


Press HOLD until  appears in the display and you cannot operate the player.

To unlock, press HOLD until  disappears from the display.

To protect your hearing (AVLS)

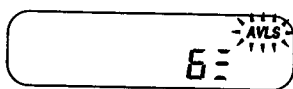
The AVLS (Automatic Volume Limiter System) function keeps down the maximum volume to protect your ears.



Set AVLS to LIMIT.

The AVLS indication appears.

If you turn up the volume to "6", the AVLS indication flashes and you cannot turn up the volume any more.



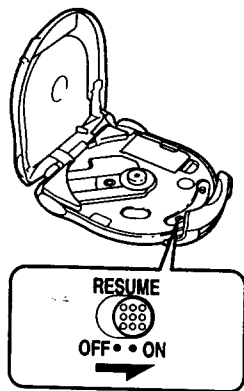
If you want to turn up the volume to more than "6", set AVLS to NORMAL. The AVLS indication disappears from the display.

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.

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, let 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.

Notes

- 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 30 seconds.

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 ■.

► Installing in a car

Where to place your player

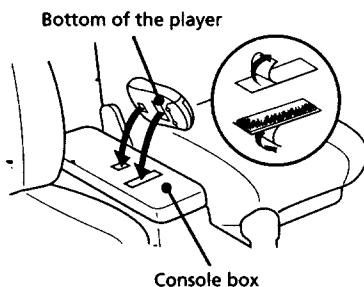
- Install the player in a location which:
 - does not interfere with your driving.
 - is not dangerous for passengers.
 - does not interfere with the glove box lid or ashtray.
 - is stable, and where nothing around it may interfere with installation.
- Do not install the player near heat sources or where subject to direct sunlight, excessive dust, or moisture (especially on a dashboard.)

Please understand that we will not incur any obligations for troubles caused by incorrect installation.

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

Mounting your player

Attach the player to the console box with the supplied Velcro tapes.

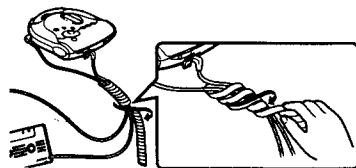


Notes

- Do not affix Velcro tapes to the name plate or the lid of the battery compartment.
- When you are going to park your car for a long period of time, remove the player from the Velcro tapes so that it will not be exposed to direct sunlight.

To route the cord

Use the supplied spiral tube to route the cords so that they do not interfere with your driving.



Note on the car battery cord

The 4.5V DC plug supplied with car battery cord conforms to the proposed standards of the Electronic Industries Association of Japan (EIAJ). Do not connect it to other players.

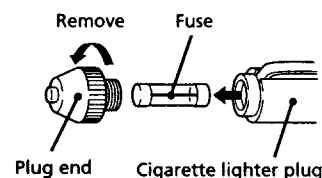
Polarity of the plug
(EIAJ standards)



Replacing the fuse of the car battery cord

If the player does not operate, check the fuse. If it is blown, replace it as follows:

- 1 Turn off the player and remove the cigarette lighter plug from the cigarette lighter socket.
- 2 Remove the plug end by turning it counterclockwise.
- 3 Remove the defective fuse from the plug.
- 4 Insert the supplied spare fuse into the plug.
- 5 Replace the plug end by turning it clockwise.



Notes

- Be sure to use the supplied spare fuse. Never use a piece of wire as a substitute for the fuse.
- If the fuse is blown again after replacing it, contact your nearest Sony dealer. In such a case, bring the supplied spare fuse to the dealer with you.

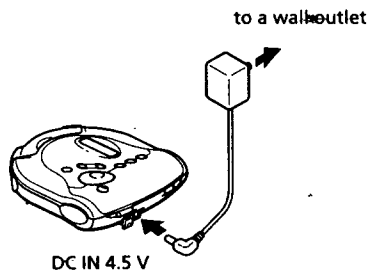
Notes on the car connecting pack

- If no sound is heard or the car connecting pack is ejected, change the direction of playback on the car cassette deck.
- Never insert the cord end of the car connecting pack into the cassette insertion door. Otherwise, the cord may break or the car cassette deck may be damaged.
- You cannot use the car connecting pack with some car cassette deck.
- The cord should be placed so that it does not hinder driving.
- To disconnect the cord from the player, pull it out by grasping the plug. Never pull the plug out by the cord.
- With some car cassette decks, you may hear some rattling noise from the car connecting pack. However, this is not a sign of malfunction.

►Power Sources

Using AC power adaptor

Connect the supplied AC power adaptor to the DC IN 4.5 V jack and a wall outlet.



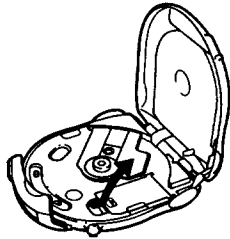
For models supplied with the AC plug adaptor

If the AC power adaptor does not fit the wall outlet, use the AC plug adaptor.

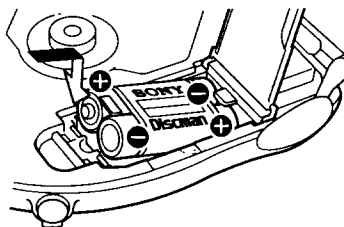
Using rechargeable battery


Charge the rechargeable battery before using it for the first time.
Use only BP-DM10 rechargeable battery for this player. Do not use any other rechargeable batteries.

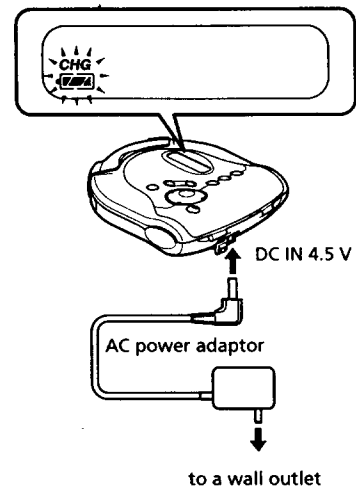
- 1 Open the lid of the battery compartment.



- 2 Insert the rechargeable battery so that the word "SONY" is facing the same direction as illustrated on the lid.




- 3 Connect the AC power adaptor. The indication "CHG" lights up. Charge for about 2 hours.
(If the battery has been already charged, "CHG" and  flash.)



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

When to charge the rechargeable battery

When the rechargeable battery becomes weak,  indication appears in the display. If the "Lo batt" appears in the display, charge the rechargeable battery, because the battery is used up.

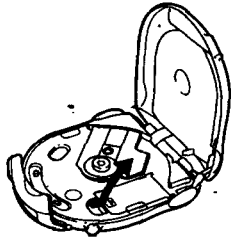
To keep the original battery capacity for a long time, recharge the batteries when the batteries are used up (discharged).

Notes

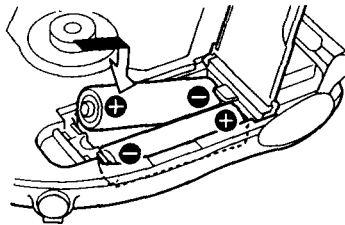
- Charging time varies depending on how the rechargeable battery is used.
- If the battery is new or has not been used for a long time, it may not be charged completely until you charge and discharge it several times.
- If the battery life becomes shorter by about half, replace it with Sony BP-DM10 rechargeable battery. Do not use any other rechargeable battery (R6 type rechargeable battery, etc.).

Using dry batteries

- 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 ⊕ and ⊖ to the diagram inside the battery compartment and close the lid.

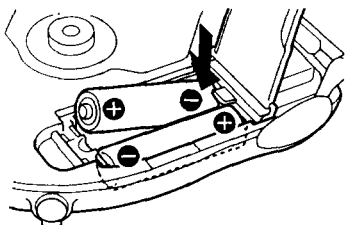


Note


- Do not use manganese batteries for this player.

To take out the dry batteries

Press the ⊖ side of the battery as shown.



When to replace the dry batteries

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

Notes

- 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 new batteries.

Battery life (approx. hours) (EIAJ*)

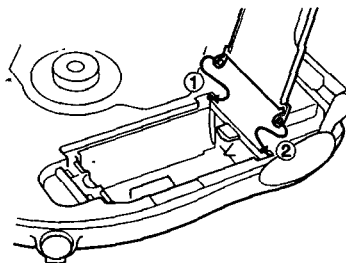
When using	ESP function	
	off	on
BP-DM10 (charged for about 2 hours**)	4	3.5
Two alkaline batteries LR6SG	14	13

*Measured value by the standard of EIAJ
(Electronic Industries Association of Japan)
(When you use the player on a flat and stable
place)

**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 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 player for a long time, disconnect all power sources from the player.

On the AC power adaptor

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

Polarity of the plug



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

On dry and 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.

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 properly.
- 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, unlevelled 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 serious accidents.

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.

On the water resistance

- Before unfastening the buckle to open the lid, be sure to wipe off water, dust or sand on the exterior of the unit. Open and close the lid where water or sand cannot fall in the unit, and make sure that your hands are dry. If water or sand falls in the unit, trouble may occur.
- When closing the lid, check that there is no dust or sand on the rubber packing around the lid. Then close the lid firmly with the buckle.
- The supplied headphones are not meant to be immersed in water or come in continuous contact with water. If they are accidentally dropped into water or get wet, dry them with a soft cloth. Never use an electric hair dryer.
- The supplied AC power adaptor is not water resistant. To prevent shock hazard, avoid using the player near water during AC operation.
- Cover the DC IN 4.5 V jack and ϕ jack with the attached rubber caps when nothing is connected to these jacks. If the inside of the jacks are contaminated with water or sand, rust may develop and caused trouble.

Specifications

System

Compact disc digital audio system

Laser diode properties

Material: GaAlAs

Wavelength: $\lambda = 780 \text{ nm}$

Emission duration: Continuous

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

Output (at 4.5 V input level)

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

General

Power requirements

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

- Sony BP-DM10 Rechargeable battery: 2.4 V DC, Ni-Cd, 650 mAh
- 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/CEF/CEX/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
CN2 model: 220 V, 50 Hz
HK2 model: 220 V, 50/60 Hz

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

Approx. 138.3 × 34.3 × 145.8 mm
(5 1/2 × 1 3/8 × 5 7/8 in.)

Mass (without rechargeable batteries)

Approx. 312 g (11.1 oz)

Operating temperature

5°C - 35°C (41°F - 95°F)

Car accessories

Car connecting pack

Frequency response

50 - 20,000 Hz*

* Differs depending on your car cassette deck.

Dimensions

Approx. 102.4 × 12.1 × 63.8 mm
(4 1/8 × 1/2 × 2 5/8 in.) (w/h/d) including projecting parts

Mass

Approx. 42 g (1.5 oz.)

Cord length

Approx. 1.5 m

Car battery cord

Input voltage

DC 12 V/24 V (only for negative \ominus grounded cars)

Rated output voltage

DC 4.5 V

Rated output current

500 mA

Dimensions

Approx. 32 × 28.1 × 95.5 mm
(1 3/16 × 1 1/8 × 3 7/8 in.) (w/h/d) including projecting parts

Mass

Approx. 53 g (1.9 oz.)

Cord length

Approx. 1.5 m

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)
 - Stereo headphones (1)
 - Rechargeable battery (1)*
 - Car battery cord (1)
 - Car connecting pack (1)
 - Velcro tapes (2)
 - Spiral tube (1)
 - Spare fuse (1)
- *Supplied with U2 model only

Design and specifications are subject to change without notice.

For US customers

AC power adaptor supplied is not intended to be serviced. Should the AC power adaptor cease to function in its intended manner, during the warranty period, the adaptor should be returned to your nearest Sony Service Center or Sony Authorized Repair Center for replacement, or after warranty period, it should be discarded.

Recommended accessories

- Car connecting pack CPA-9
- Car battery cord with car connecting pack DCC-E26CP
- Car battery cord DCC-E245
- Active speaker system SRS-A15, SRS-A35, SRS-A71, SRS-T1
- Rechargeable battery BP-DM10
- Connecting cord RK-G129HG, RK-G136HG
- AC power adaptor AC-E45HG
- Stereo headphones MDR-A44L, MDR-301LP, MDR-E848LP, MDR-35, MDR-G51, MDR-G61

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