

SONY

3-759-119-21 (1)

COMPACT
disc
DIGITAL AUDIO

Compact Disc Compact Player

D-824K

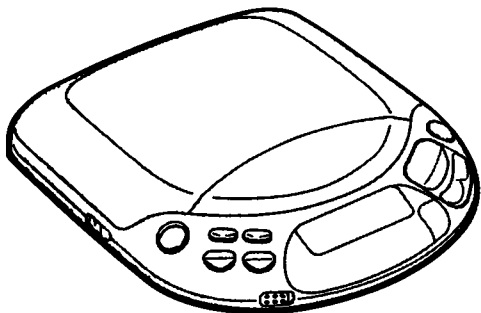
Operating Instructions

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

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-824K Serial No. _____



Discman

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.

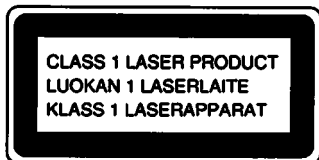
INFORMATION (For the Customers in U.S.A.)

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 use 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 measure:

- 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 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.

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.

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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 pack (not supplied), batteries (not supplied), house current or car battery.
- For AC operation: Use the AC power adaptor supplied with this unit. Do not use any other AC power adaptor as it may cause malfunction.
- For car battery operation: Use the supplied car battery cord and car connecting pack or the car mount arm CPM-300PK (not supplied) or mount plate CPM-300P (not supplied) and car connecting pack.
- 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, rechargeable battery pack, batteries, or car battery cord) 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.
 - unlevelled 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 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 crossing. You should exercise extreme caution or discontinue use in potentially hazardous situations.

• Preventing hearing damage

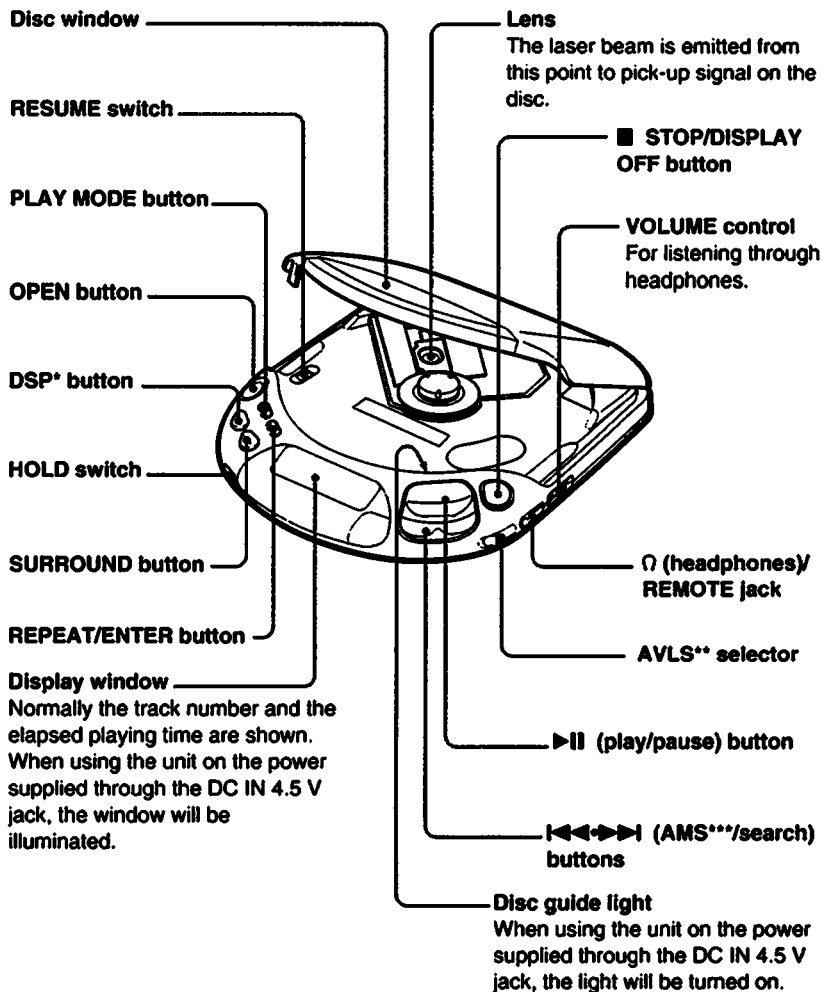
Avoid using headphones at high volume. Hearing experts advise against continuous, loud and extended play. If you experience a ringing in your ears, reduce the volume or discontinue use.

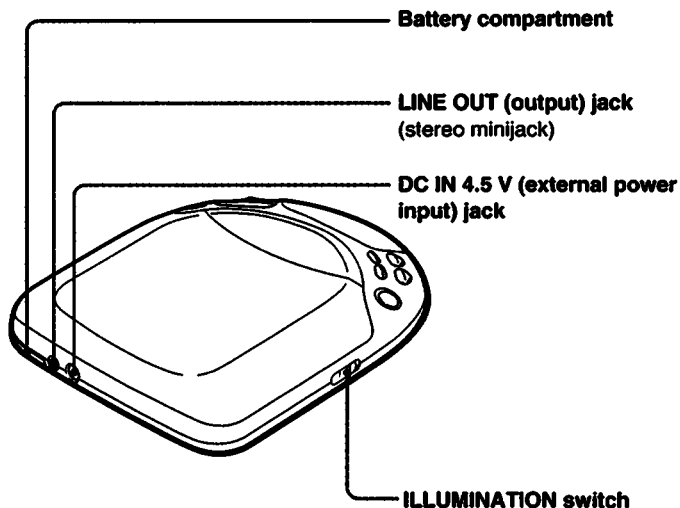
• Caring for others

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.

Location and Function of Controls





- * Digital Signal Processing
- ** Automatic Volume Limiter System
- *** Automatic Music Sensor

To change the illumination colors

Slide the ILLUMINATION switch to GREEN or AMBER. When the unit is in the DSP or SURROUND mode, the DSP or SURROUND button is illuminated with opposite color to the other buttons.

DSP or SURROUND button	Other buttons
amber	green
green	amber

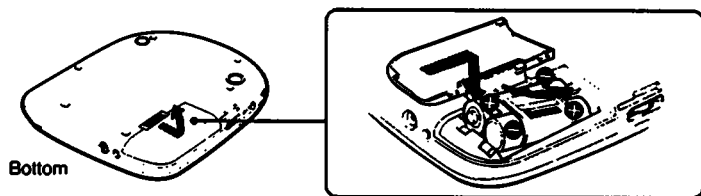
Power Sources

Using with Rechargeable Battery

Use the BP-DM10 rechargeable battery (not supplied).

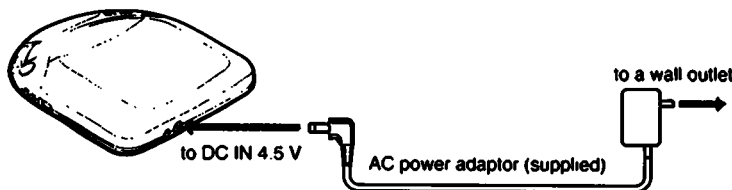
When using the rechargeable battery for the first time, make sure to charge it.

Attaching the rechargeable battery



Open the lid and insert the rechargeable battery as illustrated beside the battery compartment.

Charging the battery



Connect the supplied AC power adaptor when the unit is in the stop mode. When charging starts, CHG indication appears in the display window and the segments of the mark lights up one by one. They disappear when charging is completed. After charging, disconnect the AC power adaptor.

When the unit is not to be used with the rechargeable battery for a long period of time, remove it from the unit.

Play time on rechargeable battery

Charging time*	Playing time
2 hours maximum	Approx. 2 hours

(When the unit is used on a flat and stable place.)

* The charging time varies depending on how the rechargeable battery is used.

The remaining power of the rechargeable battery is indicated in the display window as shown on page 22.

Rechargeable battery life

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

Notes on the rechargeable battery (Ni-Cd battery)

- Be sure to use the supplied AC power adaptor.
- Remember to recharge the battery pack after every use. Leaving the rechargeable battery discharged may shorten its life.
- When charging the battery for the first time or after being unused for 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 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.

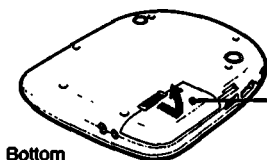
The unit may become warm

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.

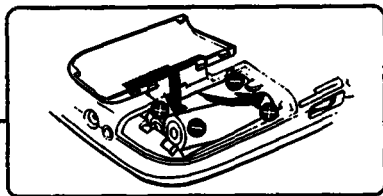
Power Sources

Using with Batteries

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



Bottom



Playing time on alkaline batteries

When the unit is used on a flat and stable place, approx. 5 hours of continuous play is possible.

The remaining power of the battery is indicated in the display window as shown on page 22.

Notes on batteries

- Insert batteries with correct polarity.
- Do not use old battery together with a new one 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.

Using on House Current

Connect the supplied AC power adaptor in the same way as for 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 or optional AC power adaptor AC-E45HG (for DC 4.5 V, unified polarity type). 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 6V or 9V jack, nor an optional AC power adaptor for DC 6V or 9V.



Polarity of the plug
(Unified polarity type)

Using in a Car

You can use this unit with a car cassette deck by connecting it with the supplied car battery cord and car connecting pack.

Installation

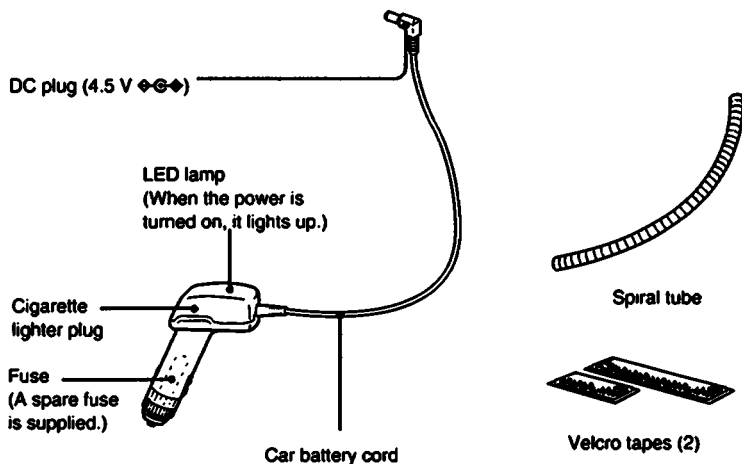
Precautions

Do not install the unit in a location which:

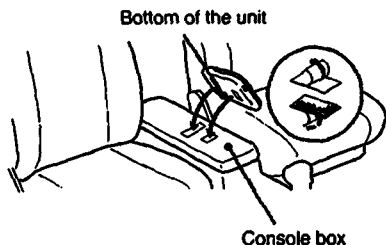
- interferes with your driving.
- may be dangerous for passengers.
- interferes with the glove box lid or ashtray when opening it.
- is near a heat source.
- is subject to direct sunlight, excessive dust, or moisture (especially on a dashboard).

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

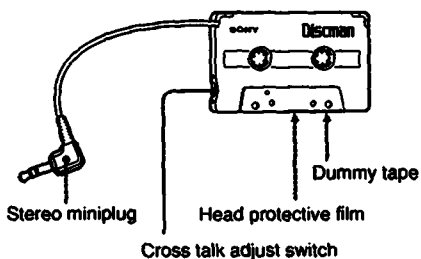
Car Battery Cord



The unit can be installed directly on a flat surface, such as a console box, with the supplied Velcro tapes.



Car Connecting Pack



Notes

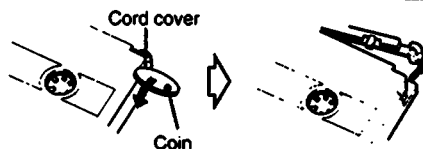
- Select the position of the cross talk adjust switch to obtain the optimum sound quality.
- Do not remove the head protective film (metal path).
- Do not pull out or contaminate the dummy tape.

Using In a Car

When you have a car cassette deck with a tape head on the right side, you can use the car connecting pack as it is.

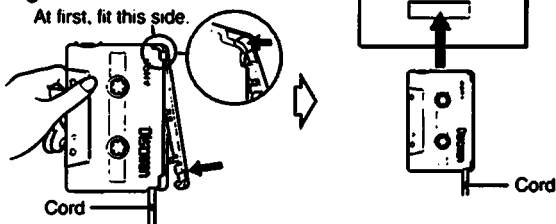
In other cases, you need to change the side where the cord exits.

1 Remove the cord cover.

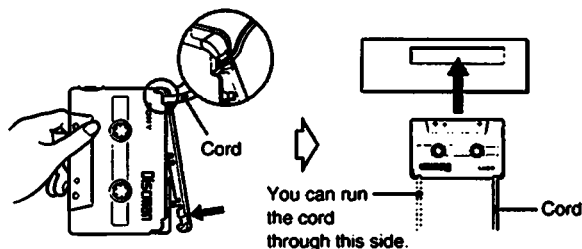


2 Change the cord to the appropriate side according to your car cassette deck, and replace the cover again.

Car cassette deck
with a tape head at
the left side



Car cassette deck
with a tape head
inner

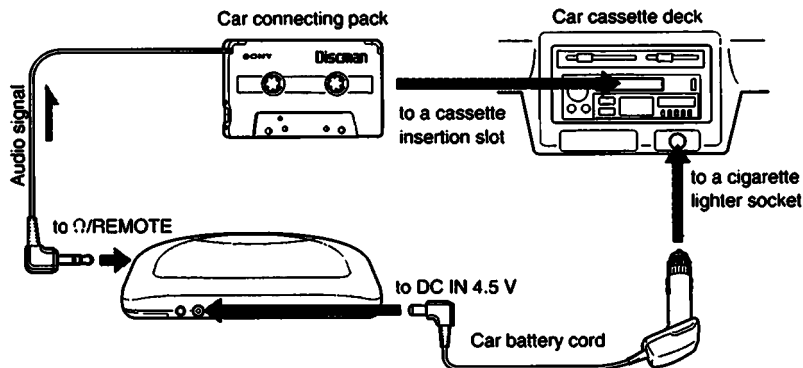


Notes

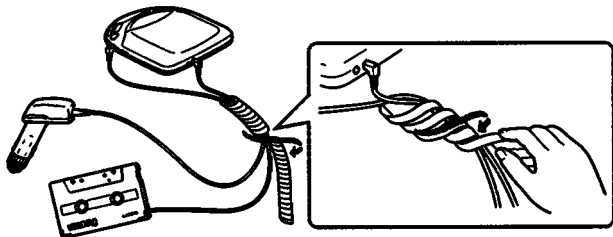
- You cannot use the car connecting pack with some car cassette deck.
- When you replace the cord cover removed, be sure to fit it firmly.

Connection

To listen to the CD compact player through the car cassette deck, make connections as shown.



To route the cords, use the supplied spiral tube.



Notes

- Route the cords so that they do not interfere with your driving.
- Never insert the cord end of the car connecting pack into the cassette insertion slot. Otherwise, the cord may break or the car cassette deck may be damaged.
- To disconnect the cord from the CD player, pull it out by grasping the plug. Never pull the plug out by the cord.
- Set the AVLS selector to OFF when you use the CD player in a car.

Operation

- 1 Insert the car connecting pack into the cassette deck.**
- 2 Set a tape selector to the normal (TYPE I) position and DOLBY NR, REPEAT, and BLANK SKIP switches to OFF if they are equipped.**
- 3 Start playback.**
If your car cassette deck has a reversible playback head, make sure that it is set in the normal (forward) direction.
- 4 Press ►|| on the unit to start CD playback.**
Adjust the volume.

If no sound is heard or the car connecting pack is ejected, change the direction of playback on the car cassette deck.

To remove the car connecting pack, press the ▲ (eject) button of the car cassette deck.

Notes

- Unplug the unit from the cigarette lighter socket when it is not in use. Otherwise, it may drain the car battery.
- With some car cassette decks, you may hear some rattling noise from the car connecting pack. However, this is not a sign of malfunction.
- You can also connect the car connecting pack to LINE OUT, however, the SURROUND and beep functions do not work.

When you turn off the engine

Even when the alkaline batteries are installed in the unit, the unit will stop operating when you turn off the engine of the car (Switched ignition function). This function is not available with every model of car. In such a case, press ■ to stop operation.

Recommended accessories for use in a car (not supplied)

Plate arm CPM-300A

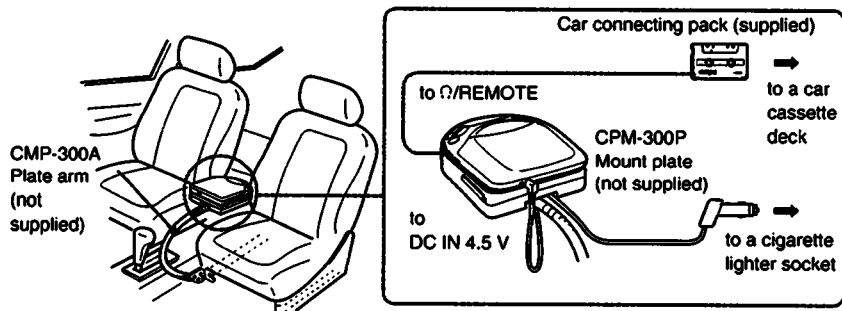
Mount plate CPM-300P

Mount arm CPM-300PK (CPM-300P + CPM-300A)

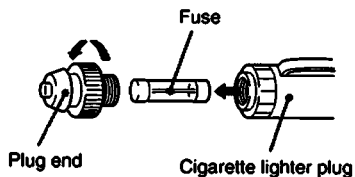
When you use the mount plate (CPM-300P)

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

Installation with an optional unit



Fuse Replacement



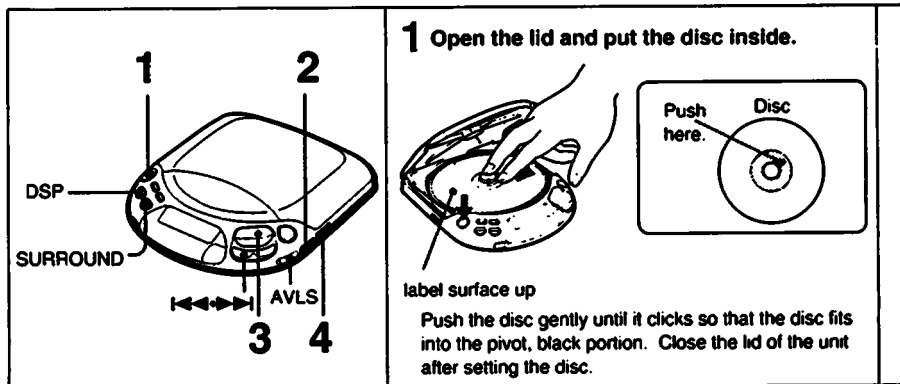
If the unit does not operate, check the fuse, if it is blown, replace it as follows:

- 1 Turn off the unit 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 on fuse replacement

- 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.

Disc Playing

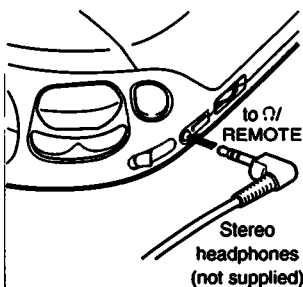


Other operations

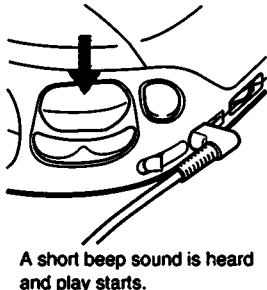
Operation	Press	The following sound is heard*
To pause	▶	Very short beep sound is repeated until the pause is released.
To release pause	▶	Very short beep sound is heard once.
To stop	■	Long beep sound is heard. Disc playing stops and the power is turned off automatically.
To locate the beginning of the current track or previous tracks—AMS	◀◀ Lightly or repeatedly	Very short beep sound is heard three times.
To locate the beginning of the next track or following tracks—AMS	▶▶ Lightly or 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 beep sound does not function on the LINE OUT jack.

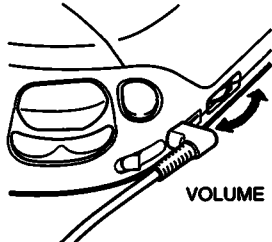
2 Connect headphones.



3 Press ►II.



4 Adjust the volume.



- The unit pauses at the beginning of the located track when you press lightly ◀◀ or ▶▶ in the pause mode.
- During the program play, the AMS operates in the programed order.
- Each time you press ◀◀, the unit locates the current and the previous tracks. Each time you press ▶▶, the unit locates the next tracks and stops at the last track.

When you press ■, disc playing will stop and after one minute the power will be turned off automatically.

When using the unit with the power supply through the DC IN 4.5 V jack, the number of the tracks of the disc and total playing time will be indicated, the back light, disc guide light and around the OPEN button will be lit for about one minute. When using the unit with the rechargeable battery or batteries, the number of the tracks of the disc and total playing time will be indicated. If you want to turn off the indication and light just after you press ■, press it again.

To eliminate the beep sound

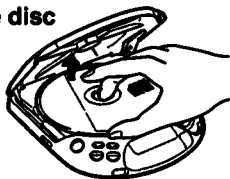
Do not connect any power sources. While keeping ■ pressed, connect the power source (rechargeable battery, alkaline batteries, or external power sources). Now the beep sound is eliminated and this condition remains as long as the power source is connected.

About the headphones

You can use this unit with the stereo headphones with stereo miniplug (not supplied) or stereo headphones with remote controller (not supplied).

To remove the disc

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



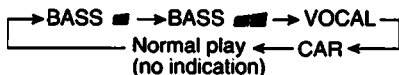
To play an 8 cm (3-inch) disc

You can play it without an adaptor.

How to Use DSP*

Select the function of the DSP button according to the contents of your disc or where to use the unit.

Each time you press the DSP button, the DSP function changes as follows:



BASS ■ BASS ■■: The bass sound will be boosted more powerfully. **BASS ■■** is more effective than **BASS ■**. If you set the volume too high, the sound may be cracked or distorted. If this happens, turn down the volume.

VOCAL: Sound of the middle frequency range is emphasized and human voice becomes more audible.

CAR: Inaudible sound will be boosted for better audibility. This is useful when listening at noisy places.

* DSP: Digital Signal Processing

Notes

- The bass boost, or CAR effect may be decreased according to the output level of the recorded sound.
- While playing back the track with fast tempo or the track with narrow dynamic range, the CAR position may not give efficient effect.
- DSP also works on the LINE OUT jack. When listening through the external speakers or when recording on the cassette recorder, adjustment of DSP is also possible.
- DSP is retained as long as the power is connected.

Enjoying Surround Effect

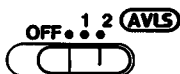
Press SURROUND. " ((SUR)) " or " (((SUR))) " appears in the display window. A rich and spacious effect will be added to the original sound. (((SUR))) is more effective than ((SUR)) .

Notes

- The surround effect does not work on the LINE OUT jack.
- When the SURROUND button is pressed, the volume will be turned up. Adjust the volume if necessary.

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 listening through headphones.

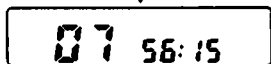


- When the AVLS selector is set to either position 1 or 2, the volume will be kept at a moderate level, even if you attempt to turn up the volume.
- When the AVLS selector is set to either position 1 or 2, the playback sound may be distorted or unstable according to the music (especially bass boosted 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.

On the Display Window

When you press ►||

The total number of the tracks in the disc and the total playing time appear for 2 seconds (when the resume play function is turned off).



Total number of the tracks Total playing time

During play

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



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

During pause

The elapsed playing time of the current track flashes.



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

Between the tracks

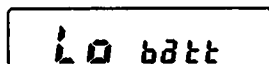
The time to the beginning of the next track appears.



2 sec. to the beginning of the 3rd track

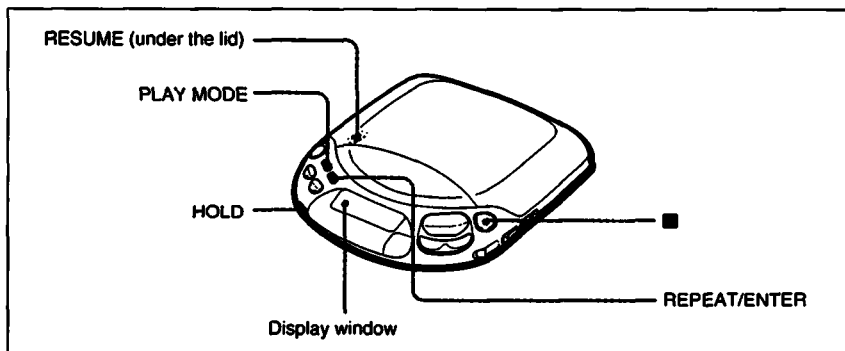


The remaining power of the battery is indicated. When the battery becomes weak, the segments of the «000» indication will go out one by one from the left segment. When the last segment lights up, it is time to get ready charge the rechargeable battery or to replace the batteries.



The battery is used up. Do not repeat pressing ►|| when this indication lights up, as the unit may operate incorrectly. Charge the rechargeable battery or replace the batteries.

Various Playing Modes



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

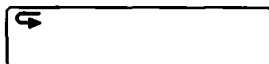
* RMS: Random Music Sensor

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 ■.

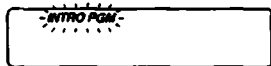
Playing the Whole Disc—Normal Play

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 to enter the track in the program.
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.

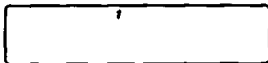
To try the programing again Press **◀◀** to go back during programing. As the programing of the tracks returned is canceled, select the desired tracks from that point.

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 **"SHUFFLE"** appears in the display window.



Play starts from the next track.

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

During shuffle play

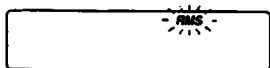
To locate the beginning of the forthcoming tracks, press **▶▶** repeatedly.

To locate the beginning of the current track, press **◀◀**. Even if you continue to press **◀◀**, the player will not go back to the previous track. The play starts from the beginning of the current track.

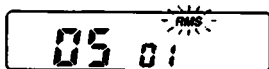
Various Playing Modes

Playing the Track in the Desired Order —RMS* (program) Play

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



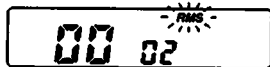
- 2 Press **◀◀** or **▶▶** to select the desired track.



Desired track The first track
number

You can program the tracks in the desired order regardless of their track numbers.

- 3 Press **REPEAT/ENTER****.



The 2nd (next) track

- 4 Repeat steps 2 and 3 (up to 22 tracks).

If another track is memorized after 22 tracks have been memorized, the first track will be cleared and the new one will be memorized in its place.

- 5 Press **▶▶**.
"RMS" stops flashing and play starts.

To resume normal play, press **PLAY MODE** again.

To repeat program play, press **REPEAT/ENTER**.

* RMS: Random Music Sensor

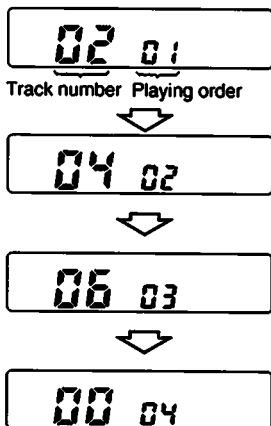
** When **REPEAT/ENTER** is pressed for more than one second, the total number and the total playing time of the programmed tracks will appear in the display window while **REPEAT/ENTER** is pressed.

If a disc contains 32 tracks or more and you wish to program the 32nd 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 check the contents of the program during programing

Press REPEAT/ENTER lightly during programing before you press ►|||. Each time you press REPEAT/ENTER, the track number and the playing order appear in the display window in the programed order.

Example: Track number 2, 4 and 6 are programed in order.



Locking the Buttons

When you set the HOLD switch to the direction of the arrow, all the buttons will be locked to prevent an accidental pressing of buttons.

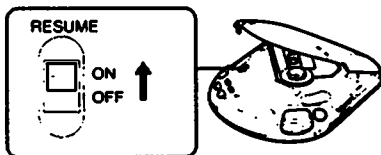
If you press a button in this condition, "Hold" appears in the display window. You can still operate the unit with the operation buttons on the remote commander.



Various Playing Modes

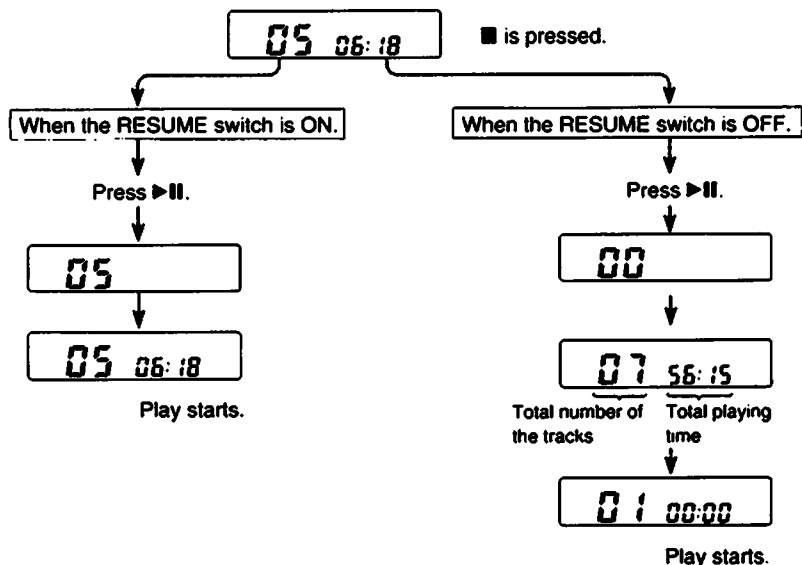
To Play from Where You Have Stopped—Resume Play Function

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



Indications at the beginning of the play are as follows:

(Ex. The play is stopped when 6 min. 18 sec. of 5th track has elapsed.)



Notes

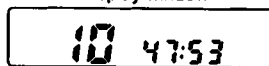
- If you open the lid after pressing ■, the memory of the position where you pressed ■ is canceled. The play starts from the first track.
- The DSP and surround functions are always memorized regardless of the position of the RESUME switch unless the power supply is disconnected.
- The resume play may start approximately 30 seconds behind or ahead the position where you press ■ if the AC power adaptor or the car battery cord is disconnected, or the rechargeable battery or batteries are removed. However, memories of DSP mode, playing mode and repeat mode will be erased.

When the unit is in the stop mode, you can operate this unit as follows when the indication appears in the display window

When the RESUME switch is in the OFF position

You can operate the DSP and SURROUND buttons.

Display window

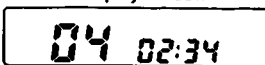


Total track number and total playing time

When the RESUME switch is in the ON position

You can operate the PLAY MODE, REPEAT/ENTER, DSP, SURROUND and ◀◀▶▶▶▶ buttons.

Display window

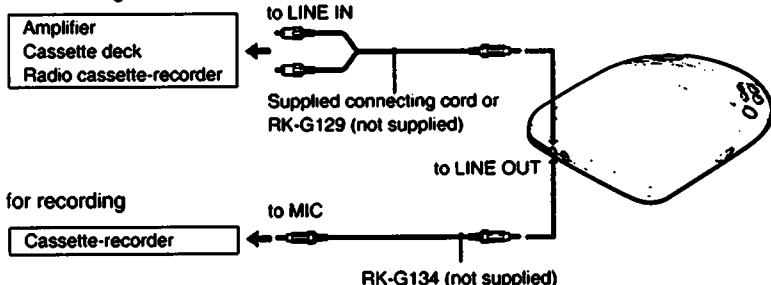


The track number played last time and elapsed time when ■ is pressed

Connecting with Other Equipment

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

- for monitoring the sound through speakers
- for recording



Note

You cannot adjust the output level from the LINE OUT jack with the VOLUME control of the unit.

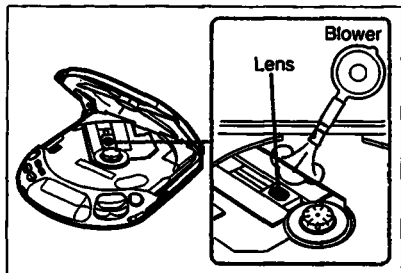
Notes on connection

- 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.

Maintenance

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).



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 benzene, 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.

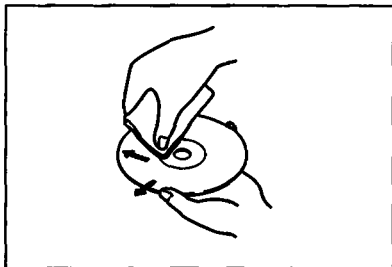
If there is a scratch, dirt or fingerprints on the disc, it may cause tracking error.

Cleaning the headphone plug

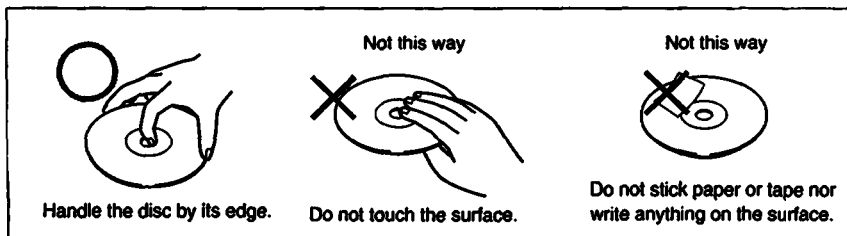
Keep the plug of your headphones clean to obtain optimum sound. Wipe it with a dry, soft cloth.

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 benzene as they may mar the finish of the casing.



Handling the disc



Specifications

System	Compact disc digital audio system
Laser diode properties	Material: GaAlAs Wavelength: $\lambda=780$ nm Emission duration: Continuous Laser output: Less than 44.6 μ W (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 ± 3 dB (measured by EIAJ CP-307)
Output (at 4.5 V input level)	Line output (stereo minijack) Output level 0.65 V rms at 50 kilohms Load impedance over 10 kilohms Headphones (stereo minijack) 4 mW + 4 mW at 16 Ω

General

Power requirements	Supplied: <ul style="list-style-type: none">• DC IN 4.5 V jack accepts the Sony AC power adaptor for use on:
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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

- DC IN 4.5 V jack accepts the car battery cord for use on car battery.

Not supplied:

- DC 2.4 V rechargeable battery pack
 - DC 3 V two size AA (LR6) alkaline batteries (for the unit)
- Approx. 138 x 31.5 x 159.0 mm (5 1/2 x 1 1/4 x 6 3/8 in.) (w/h/d) incl. projecting parts and controls

Dimensions

Mass

Approx. 310 g (11 oz.) not incl. rechargeable battery

Supplied accessories

AC power adaptor (1)
Velcro tapes for the CD player (2)
Connecting cord (phono plug × 2 ↔ stereo miniplug) (1)
Car battery cord (1)
Spare fuse (1)
Spiral tube (1)
Car connecting pack (1)

Design and specifications subject to change without notice.

Accessories not supplied

Plate arm CPM-300A
Mount plate CPM-300P
Mount arm CPM-300PK
Mount kit CPM-300PC
Mount kit CPM-300CK
Car connecting pack CPA-8, CPA-4, CPA-5RM
Active speaker system SRS-58
Rechargeable battery BP-DM10
Stereo headphones MDR-A22L, MDR-E747

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

Note

This appliance conforms with EEC Directive 87/307/EEC regarding interference suppression.

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.	<ul style="list-style-type: none">• 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.• 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 car battery cord is not firmly connected to a cigarette lighter socket.• The unit is not placed on a level surface.• The HOLD switch is set to the direction of the arrow.• When the 12 cm CD with contains many tracks is replaced with a disc with a few tracks (such as CD single or CDV, etc.), it may take more than 10 seconds before play starts.• Weak rechargeable battery or alkaline batteries
No sound from the headphones	<ul style="list-style-type: none">• The headphones plug is not firmly connected to the Ω/REMOTE jack.• Adjust the volume.• Dirty plug
No sound from the connected speakers	<ul style="list-style-type: none">• Check the connections.• The amplifier is not turned on.
Skipping of sound	<ul style="list-style-type: none">• Dirty or defective disc• Dirty lens• Strong vibration

Symptom	Cause and/or solution
Disc play does not stop when you turn off the engine or the car.	<ul style="list-style-type: none"> • Press ■ to stop operation.
The “no disc” indication appears in the display window.	<ul style="list-style-type: none"> • Place the CD with the label surface up. • Replace the CD if it is badly damaged.
The “Hi dc in” indication appears in the display window.	<ul style="list-style-type: none"> • Use the supplied AC power adaptor or optional AC power adaptor AC-E45HG.
When using with batteries, the battery life is short.	<ul style="list-style-type: none"> • Manganese batteries are used. → Use alkaline batteries.
Charging is not possible.	<ul style="list-style-type: none"> • Insert the rechargeable battery with the side marked “Sony Discman” facing up.
The “Hold” indication appears when you press a button.	<ul style="list-style-type: none"> • The HOLD switch is set in the direction of the arrow.