

# Compact Disc Compact Player

## Operating Instructions

### Discman



### D-1000

Sony Corporation © 1994 Printed in Korea

#### 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 rear.

Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

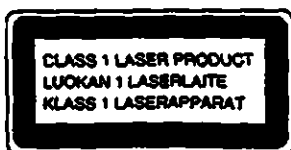
Model No. D-1000 Serial No. \_\_\_\_\_

#### 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 rear exterior.



#### 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.

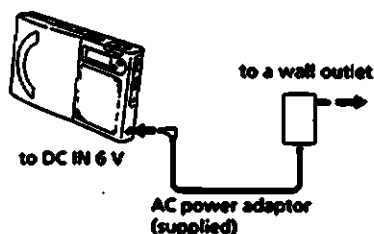
You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

**For the Customers in Canada  
THIS APPARATUS COMPLIES WITH THE CLASS B LIMITS FOR RADIO NOISE EMISSIONS SET OUT IN RADIO INTERFERENCE REGULATIONS.**

## Power Sources

### Using on House Current

Connect the supplied AC power adaptor.



#### Note on the AC power adaptor

Use only the supplied AC power adaptor or AC-E60M (not supplied) (for DC 6 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 4.5 V or 9 V jack, nor an optional AC power adaptor for DC 4.5 V or 9 V.



Polarity of the plug  
(Unified polarity type)

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.

### Using Batteries

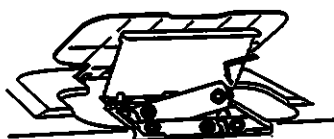
Insert four size AA (LR6) alkaline batteries (not supplied).

1 Lift the stand.

2 Open the battery compartment lid.

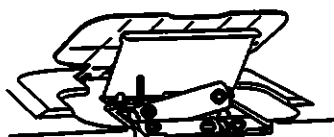


3 Insert the batteries according to the ⊕ and ⊖ indications in the battery compartment.



#### To take out the batteries

Push a battery as shown.




#### Alkaline battery life

About 12 hours (when you use the speaker) and about 16 hours (when you use the headphones) of continuous play is possible.

#### When the indication lights up

As the batteries are used up, a beep will sound and the unit will stop its operation.

Replace the batteries with new ones.

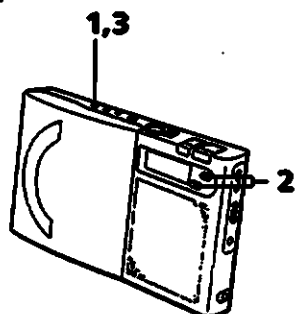
- Soon the  indication will flash and disappear. The time indication will remain correct for about 1 minute when you remove the batteries. If the display shows . . . . while you are replacing the batteries, you must adjust the clock again.





#### Notes on the batteries

- Insert batteries with correct polarity.
- Do not use old batteries together with new ones or different types of the 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.

## Adjusting the Clock

The . . . . indication flashes when you install the batteries or connect the AC power adaptor.



- 1 Press **CLOCK** for more than 2 seconds. The "0:00" or "AM 12:00" flashes.
- 2 Adjust the clock to the current time. Each time you press  or , the digits increase or decrease by one minute. When you keep pressing  or , the digits change by one minute at first and then start changing rapidly.
- 3 Press **CLOCK** lightly. The clock starts to operate.

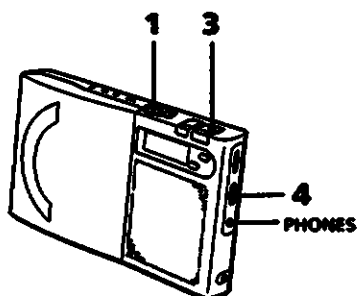
#### On time indication

|   |   |
|---|---|
| 24-hour system<br>(Continental<br>European model) | 12-hour system<br>(Canadian, UK and<br>other countries'<br>model) |
| 0:00 = midnight<br>12:00 = noon                   | AM 12:00 = midnight<br>PM 12:00 = noon                            |

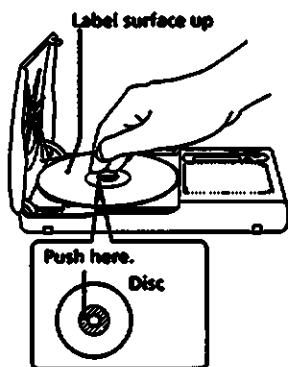
To display the current time while other indications are displayed Press **CLOCK**.

## Disc Playing

For better sound, stand up the unit when playing the disc.

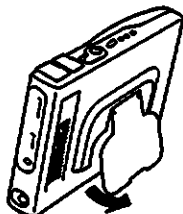


**1** Press OPEN and put the disc.



Push the disc gently until it clicks so that the disc fits into the pivot, black portion. Close the lid after setting the disc.

**2** Stand up the unit.



**3** Press ▶⏸.

**4** Adjust VOLUME.

### Other operations

| Operation   | Press                    |
|---|--------------------------|
| To pause  | ▶⏸                       |
| To release pause  | ▶⏸                       |
| To stop   | ■                        |
| To locate the beginning of the current track/<br>previous tracks—<br>AMS* | ⏮ lightly/<br>repeatedly |
| To locate the beginning of the<br>next track/tracks—<br>AMS               | ⏭ lightly/<br>repeatedly |
| To go back at high<br>speed (search)                                      | Keep ⏮ depressed         |
| To go ahead at high<br>speed (search)                                     | Keep ⏭ depressed         |

- \* The unit pauses at the beginning of the located track when you press shortly ⏮ or ⏭ in the pause mode.
- \* Each time you press ⏮, the unit locates the previous track. Each time you press ⏭, the unit locates the next track and stops at the last track.

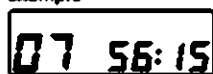
\*AMS: Automatic Music Sensor

### On display window

When you press ▶⏸

The total number of the tracks in the disc and the total playing time appear for 2 seconds.

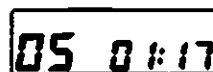
Example



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

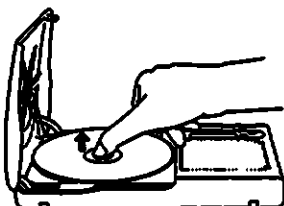
The elapsed playing time of the current track flashes.



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

To remove the disc

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



To listen with headphones

Connect the headphones (not supplied) to the PHONES jack.

Folding the stand



Press the stand until it clicks.

### Locking the Buttons

When you carry the unit, slide the HOLD/OPEN LOCK switch in the direction of the arrow to avoid accidental pressing of the buttons. (The ◀→ indication appears in the display.) When you press any button while the HOLD/OPEN LOCK switch is set to the direction of the arrow, the "Hold" indication appears in the display.

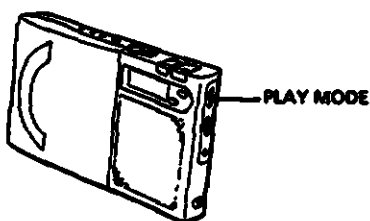


HOLD/  
OPEN LOCK

## Various Playing Modes

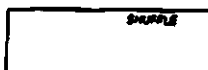
This unit has SHUFFLE play and REPEAT play in addition to NORMAL play (playing the whole disc once).

To select the playing mode, change the PLAY MODE switch setting.



### Playing the Tracks in Random Order—Shuffle Play

Set the PLAY MODE switch to SHUFFLE. The "SHUFFLE" indication appears in the display window and the unit will play every track in the disc once in random order. If you set the PLAY MODE switch to SHUFFLE during play, the shuffle play will start from the next track.

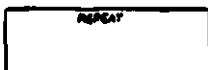


#### During shuffle play

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 unit will not go back to the previous track. The play starts from the beginning of the current track.

### Playing the Whole Disc Repeatedly—Repeat Play

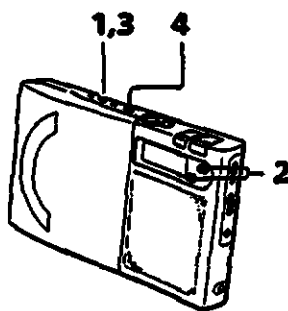
Set the PLAY MODE switch to REPEAT. The "REPEAT" indication appears in the display window and the unit will play the whole disc repeatedly until you press **■**.



## Waking up to the Disc Playing

### Setting the Wake-up Timer

You can set the wake-up time while you are listening to a disc.



- 1 Press TIME for about 2 seconds. The "Ⓢ" indication and the time indication flash in the display.
- 2 Adjust the wake-up time. Each time you press **▶▶** or **◀◀**, the digits increase or decrease by one minute. When you keep pressing **▶▶** or **◀◀**, the digits change by one minute at first and then start changing rapidly.
- 3 Press TIME lightly. When the unit is not playing the disc, the display will return to the current time indication after about 10 seconds. When the unit is playing the disc, the display will return to the track number and the elapsed time indication after about 10 seconds.
- 4 Set the WAKE UP OFF/STANDBY switch to STANDBY (Ⓢ). The "Ⓢ" indication lights up in the display.

#### To cancel the timer

Set the WAKE UP OFF/STANDBY switch to OFF (Ⓜ). Be sure to set the switch to OFF (Ⓜ) when you are not going to use the timer in such a case when you will be absent.

#### When the set time comes

The "PLAY" indication will appear in the display, and the unit will play the disc. If the PLAY MODE switch is set to REPEAT, the disc playing will stop automatically after about 90 minutes.

#### If a beep sounds when you set the WAKE UP OFF/STANDBY switch to STANDBY (Ⓢ).

Check the following points:

- Is a disc in the unit? (The "no disc" indication appears.)
- Have you set the wake-up time? (The "Err" indication appears.)
- Have you set the current time? (The "Err" indication appears.)

#### To check the wake-up time

Press TIME lightly, the wake-up time you set will appear in the display for about 10 seconds.

#### Once you set the timer

The unit will turn on automatically at the same time every day until you reset or cancel the timer.

#### To change the wake-up time

Perform the same procedures from 1 to 3 as you set the wake-up time.

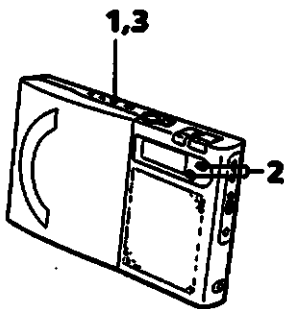
#### Notes

- When the timer is active, you can hear the disc playing even when VOLUME control is set to MIN or the headphones are connected.
- You cannot set the WAKE UP OFF/STANDBY switch when HOLD/OPEN LOCK is set to the direction of the arrow as the operating buttons are locked.

## Setting the Track Number

You can wake up to the desired track by setting the track number.

You can set the track number while you are listening to a disc or after you set the WAKE UP OFF/STANDBY switch to STANDBY (⏏)



- 1** Press TRACK for about 2 seconds. The "Ⓢ" indication and the track number flash.
- 2** Set the track number. Each time you press ►► or ◀◀, the digits increase or decrease by one track. When you keep pressing the button, the digits change continuously.
- 3** Press TRACK lightly.

### If you set a track number that is not in the disc

The first track will be played.

### When you change the disc after you have set the track number

The same track will be played if that track number is included in the new disc. If not, the first track will be played.

### When the PLAY MODE switch is set to SHUFFLE

The unit will play the tracks in random order independently of the track you set.

### To check the track number you set

Press TRACK lightly, the track number you set will appear in the display for about 10 seconds.

### To change the track number

Perform the same procedures as you set the track number.

## Troubleshooting Guide

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

### Disc play does not start.

- The HOLD/OPEN LOCK switch is set to the direction of the arrow. Release the switch.
- The disc is inserted upside down or incorrectly. Insert the disc correctly with the label surface up.
- The disc is dusty or defective.
- The lens is dirty or dusty.
- The disc compartment lid is not closed.
- Moisture condensation has occurred. Leave the unit in a warm place until the moisture evaporates.
- Connect the AC power adaptor firmly.
- Alkaline batteries are weak. Replace the batteries.
- The AC power adaptor is not plugged into the wall outlet.

### No sound from the speaker

- Remove the headphones from the PHONES jack.
- Adjust the VOLUME control.

### No sound from the headphones

- The headphones plug is not firmly connected to the PHONES jack.
- Adjust the VOLUME control.

### A beep sounds when you set the WAKE UP OFF/STANDBY switch to STANDBY (□).

- When the "Err" indication appears in the display.
  - Set the current time.
  - Set the wake-up time.
- When the "no disc" indication appears in the display.
  - Insert a disc.

### Skipping of sound

- Dirty lens.
- Dirty or defective disc
- Strong vibration
- Replace the disc if it is badly damaged.

### The unit does not play the track you have set for the wake-up timer.

- The track number that you have set is not included in the disc.
- The PLAY MODE switch is set to SHUFFLE.

### The "no disc" indication appears in the display.

- Place a disc with the label surface up.
- Make sure that the disc is inserted correctly.
- Replace the disc if it is badly damaged.

### When using the unit with batteries, the battery life is short.

- Manganese batteries are used. Use alkaline batteries.

## Specifications

### System

Compact disc digital audio system

### Laser diode properties

Material: GaAlAs

Wavelength:  $\lambda = 780$  nm

Emission duration: Continuous

Laser output: Less than  $44.6 \mu\text{W}$

(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 Hz - 20,000 Hz  $\pm 3$  dB (speaker output)

20 Hz - 20,000 Hz  $\pm 3$  dB (headphones output) (measured by EIAJ CP-307)

### Output (at 6 V input level)

Speaker output (monaural)

0.3W at maximum output level

Load impedance 8 ohms

Headphones (stereo minijack)

19 mW + 19 mW at 16 ohms

### General

#### Power requirements

Supplied:

- DC IN 6 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:

- DC 6 V (four size AA (LR6) alkaline batteries)

#### Dimensions

Approx. 216 × 132 × 32 mm (8 1/2 × 5 1/8 × 1 1/8 in.) (w/h/d) incl. projecting parts and controls

#### Mass

Approx. 500 g (17.8 oz.)

Approx. 600 g (21.2 oz.) including a disc and four alkaline batteries

#### Supplied accessory

AC power adaptor (1)

Design and specifications are subject to change without notice.

#### Optional Accessories

Stereo headphones MDR-E747, MDR-A22L

Your dealer may not handle some of the above listed optional accessories. Please ask the dealer for detailed information

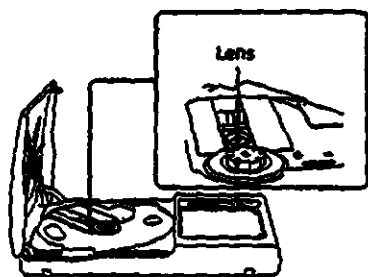
#### Note

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

## 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, clean the lens with lens cleaning kit (KK-DM1, not supplied).



### 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.

### Cleaning the Headphones Plug

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

### Notes on Compact Discs

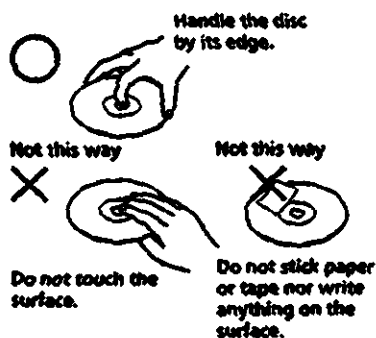
- Before playing, clean the disc with a cleaning cloth. Wipe the disc from the center out.



- 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



### If the Stand Comes off



## 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 6 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 unit on house current, or on batteries (not supplied).
- 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.
- 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, alkaline batteries) 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 speaker 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.
- 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.