


Portable CD Player

Operating Instructions



Atrac3plus

“WALKMAN” is a registered trademark of Sony Corporation to represent Headphone Stereo products.  is a trademark of Sony Corporation.

D-NE800

WARNING

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

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

To prevent fire, do not cover the ventilation of the apparatus with newspapers, tablecloths, curtains, etc. And don't place lighted candles on the apparatus.

To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the apparatus.

CAUTION

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

Certain countries may regulate disposal of the battery used to power this product. Please consult with your local authority.

CAUTION

- INVISIBLE LASER RADIATION
WHEN OPEN
- DO NOT STARE INTO BEAM OR
VIEW DIRECTLY WITH OPTICAL
INSTRUMENTS
- CLASS 1M INVISIBLE LASER
RADIATION WHEN OPEN
- DO NOT VIEW DIRECTLY WITH
OPTICAL INSTRUMENTS

The validity of the CE marking is restricted to only those countries where it is legally enforced, mainly in the countries EEA (European Economic Area).

ATRAC3plus and ATRAC3 are trademarks of Sony Corporation.

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Enjoy your ATRAC CD Walkman!

Thank you for purchasing the D-NE800. This CD Walkman is called an “ATRAC CD Walkman,” because you can enjoy “ATRAC CDs” on it.

You can make your own ATRAC CD easily.

How to use the SonicStage

Refer to the supplied booklet “SonicStage.”

1

Install

Install the supplied “SonicStage” software.



2

Store and burn

Store music data imported from audio CDs or music files on your PC, select your favorite tracks, then burn your own CDs.

Audio CDs



Music files*



*Files in MP3 or WAV format

What is an ATRAC CD?

An ATRAC CD is a CD-R/RW on which audio data compressed in the ATRAC3plus/ATRAC3 format has been recorded. About 30 audio CDs can be recorded on a CD-R/RW.* You can also record MP3 files by converting the files to the ATRAC3plus/ATRAC3 format.

* When total playing time of one CD (album) is estimated at 60 minutes and you are recording on a 700 MB CD-R/RW at 48 kbps in ATRAC3plus format.

What is the ATRAC3plus/ATRAC3 format?

Refer to pages 7 - 9 of this manual.

Audio data is converted to the ATRAC3plus/ATRAC3 format by the SonicStage.

ATRAC CD



3

Listen

You can enjoy listening to your own ATRAC CDs on your ATRAC CD Walkman.



You can also enjoy audio CDs on your CD Walkman.

Music sources playable on this CD player

You can play the following 3 music sources on this CD player:

- Audio CDs (CDDA format)
- CDs with ATRAC3plus/ATRAC3 format files (ATRAC CD)
- CDs with MP3 format files (MP3 CD)

Usable disc formats

You can use ISO 9660 Level 1/2 and Joliet extension format discs only.

About CD-Rs/RWs

This CD player can play CD-Rs/RWs recorded in the ATRAC3plus/ATRAC3, MP3 or CDDA* format, but playback capability may vary depending on the quality of the disc and the condition of the recording device.

* CDDA is the abbreviation for Compact Disc Digital Audio. It is a recording standard used for the Audio CDs.

Music discs encoded with copyright protection technologies

This product is designed to play back discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

Notes

- This CD player cannot record music content on recordable media, such as CD-Rs/RWs.
- CD-Rs/RWs recorded in the ATRAC3plus/ATRAC3 format cannot be played on your computer.

ATRAC3plus and ATRAC3

“ATRAC3plus,” which stands for “Adaptive Transform Acoustic Coding3plus” is audio compression technology, developed from the ATRAC3 format. Though the ATRAC3plus format can compress music content to about 1/20 of its original size at 64 kbps, you can still enjoy high quality sound. The available transfer bit rates are 256 kbps, 64 kbps and 48 kbps.

“ATRAC3,” which stands for “Adaptive Transform Acoustic Coding3” is audio compression technology that satisfies the demand for high sound quality and high compression rates. The ATRAC3 format can compress music content to about 1/10 of their original size, which contributes to reduction of the media volume. The available transfer bit rates are 132 kbps, 105 kbps and 66 kbps.

The usable number of groups and files

- Maximum number of groups: 255
- Maximum number of files: 999

For details, refer to the supplied booklet “SonicStage.”

Note on saving files on the media

Do not save files in other formats (except MP3 files) and do not make unnecessary folders on a disc that has ATRAC3plus/ATRAC3 files.

MP3

MP3, which stands for MPEG-1 Audio Layer3, a standard for audio files compression supported by the Motion Picture Experts Group, an ISO (International Organization for Standardization) working group, enables compression of audio files to about 1/10 of the data size of a standard compact disc.

The major specifications of the acceptable disc format are:

- Maximum directory levels: 8
- Acceptable characters: A - Z, a - z, 0 - 9, _ (underscore)

Notes

- When naming files, be sure to add the file extension “mp3” to the file name.
- If you add the extension “mp3” to a file other than an MP3 file, the player will not be able to recognize the file properly.

(Continued)

The usable number of groups and files

- Maximum number of groups: 255
- Maximum number of files: 999

Settings for compression and writing software

- This CD player is able to play MP3 files with the following specifications: Bit rate: 16 - 320 kbps, and sampling frequencies: 32/44.1/ 48 kHz. Variable Bit Rate (VBR) file can also be played.
To compress a source for an MP3 file, we recommend setting the compression software to “44.1 kHz,” “128 kbps,” and “Constant Bit Rate.”
- To record up to the maximum capacity, set to “halting of writing.”
- To record at one time up to the maximum capacity on media that has nothing recorded on it, set to “Disc at Once.”

Notes on saving files on the media

- Do not save files in other formats (except MP3/ATRAC3plus/ATRAC3 format files) or unnecessary folders on a disc that has MP3 files.
- When a disc is inserted, the CD player reads all the information of folders and files on that disc. If there are many folders on the disc, it may take a long time for play to begin or for the next file to start playback.

The structure of ATRAC3plus/ATRAC3 and MP3 files

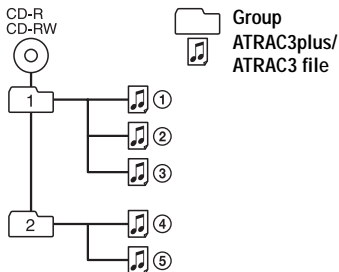
Groups and folders

The ATRAC3plus/ATRAC3 format has a very simple structure. It consists of “files” and “groups.” A “file” is equivalent to a “track” of an audio CD. A “group” is a bundle of files and is equivalent to an “album.” A “group” has no directory-type structure (a new group cannot be made within an existing group).

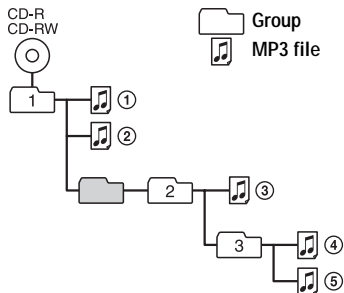
When referring to MP3 CDs, a “file” is equivalent to a “track” and a “group” is equivalent to an “album.” This CD player is designed to recognize an MP3 folder as a “group” so that it can play CD-Rs/RWs recorded in both the ATRAC3plus/ATRAC3 format and those recorded in the MP3 format with the same operation.

ATRAC3plus/ATRAC3/MP3 file structure and playing order

•ATRAC3plus/ATRAC3



•MP3



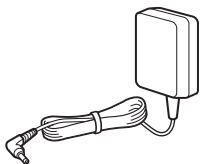
Notes

- A group that does not include an MP3 file is skipped.
- If ATRAC3plus/ATRAC3 files and MP3 files are recorded on the same CD, this CD player plays the ATRAC3plus/ATRAC3 files first.
- Depending on the method used to record MP3 files on the disc, the playing order may be different from the one shown above.

Getting started

Checking the supplied accessories

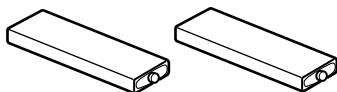
AC power adaptor (1)



Charging stand (1)



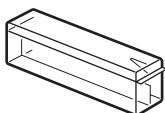
Rechargeable batteries (2)



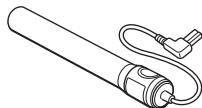
Carrying pouch (1)



Battery carrying case (1)



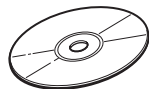
External battery case (1)



Headphones/earphones (1)

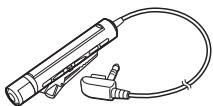


CD-ROM* (SonicStage) (1)



*Do not play a CD-ROM on an audio CD player.

Remote control (1)



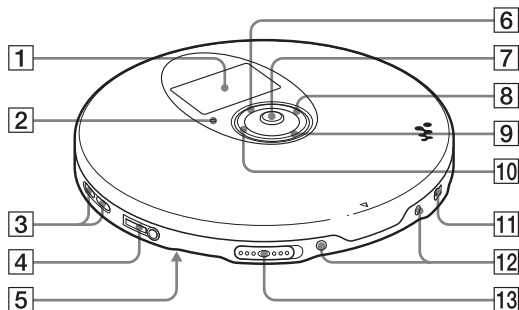
User's guide for SonicStage (1)

AC plug adaptor (1)
(Supplied with tourist model only)

Locating the controls

CD player

For details, see the pages in parentheses.



1 Display (12, 17, 19, 24, 37)

2 OPR (operation) lamp (28, 29, 34)

Color of the lamp changes according to the type of music source being played.

Red: Audio CD, Green: ATRAC3plus/ATRAC3 file, Orange: MP3 file
For some time after the CD is inserted, the lamp lights up in red, orange and green in turn.

This lamp also functions as the HOLD lamp and the CHG (charge) lamp.

3 VOL (volume) +*/- buttons (16)

4 (headphones)/LINE OUT (OPTICAL) jack (15, 31)

Switch the function of the jack, using the menu.

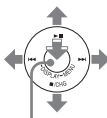
5 HOLD switch (rear) (28)

Slide the switch in the direction of the arrow to disable the buttons on the CD player.

6 ⬆ button (19 - 31, 37)

Use to select a file, play mode, etc.

7 5-way control key (15, 16, 19 - 31, 34, 37)



DISPLAY/
MENU

▶||: play/pause

◀◀:AMS^{*2}/rewind

▶▶:AMS/fast forward

■/CHG: stop/charge

DISPLAY/MENU: Use to select menu items and enter the selection.

Push the control key toward ▶||, ▶▶, ◀◀ or ■/CHG with your finger on DISPLAY/MENU.

8 (group) + button (16, 23, 24)

9 ↕ button (19 - 31, 37)

Use to select a file, play mode, etc.

10 (group) – button (16, 23, 24, 26, 28, 37)

11 EXT BATT (external battery)/DC IN 4.5 V (external power input) jack (15, 34, 36)

12 Terminals for the charging stand (34, 38)

13 OPEN switch (15, 33)

Slide the switch to open the CD player lid.

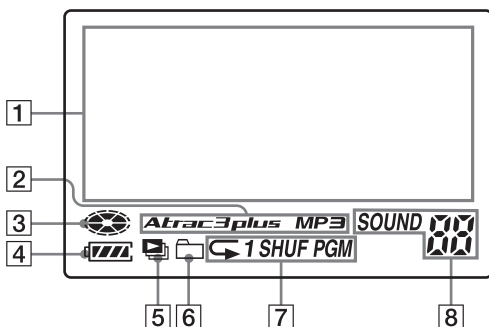
*1 The button has a tactile dot.



*2 Automatic Music Sensor

(Continued)

Display (CD player)

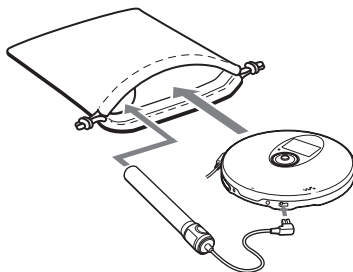
For details, see the pages in parentheses.



- 1** Character information display (17)
While playing an audio CD, disc name, track name, etc. appear in 4 lines, if recorded on the CD.
While playing an ATRAC CD/MP3 CD, group name, file name, etc. appear in 4 lines, if recorded on the CD.
Menu items also appear in this display.
- 2** Atrac3plus/MP3 indication
- 3** Disc indication
Lights up while the CD player is playing.
- 4** Battery indication (33)
Roughly shows the remaining power of the battery. If “” flashes, the batteries are depleted.
- 5** Play list indication (21)
For MP3 CD only
- 6** Group indication (19, 20)
For ATRAC CD/MP3 CD only
- 7** Play mode indication (19 - 24)
Shows various play modes such as shuffle play and program play. “” shows repeat play.
- 8** SOUND indication (25, 26)
Shows the SOUND setting which has been selected on the menu.

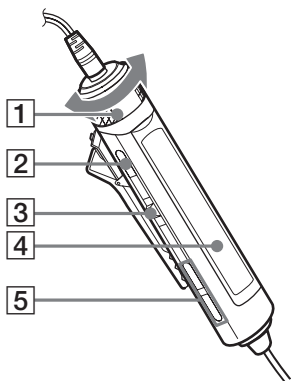
Using the carrying pouch

You can carry your player and its battery case together using the supplied carrying pouch. Insert them into the proper places in the pouch as illustrated.

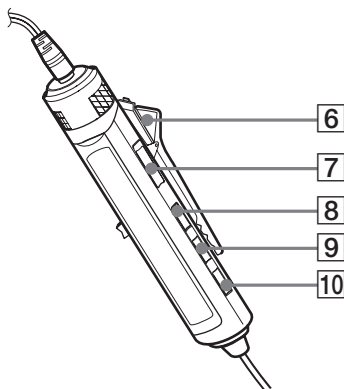


Remote control

For details, see the pages in parentheses.



- 1** VOL (volume) +/- control (16, 26, 28)
Turn to adjust the volume.
- 2** ■ (stop) button (16, 26, 28, 37)
- 3** Jog lever (◀◀ ▶▶/ENT ▶▶) (16, 21 - 23, 25 - 31)
▶▶ (play/pause)/ENT (enter):
Press during stop to start play, and press during play to pause play. When selecting menu items, press to enter the selection.
Flick toward ◀◀ or ▶▶: AMS, rewind, fast forward
- 4** Display (14, 17)
- 5** □ (group) +/- buttons (16, 23, 24)



- 6** Clip (14)
- 7** HOLD switch (28)
Slide the switch in the direction of the arrow (a yellow mark appears) to disable the buttons on the remote control.
- 8** DISPLAY button (24, 26 - 31, 37)
- 9** P MODE/↔ button (19 - 24)
- 10** SOUND button (25, 37)

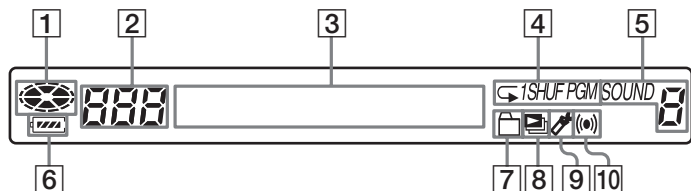
Note

Use only the supplied remote control. You cannot operate this CD player with the remote control supplied with other CD players.

(Continued)

Display (remote control)

For details, see the pages in parentheses.

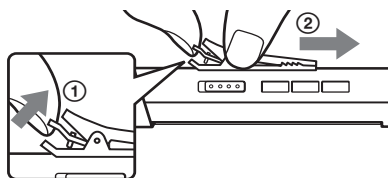


- | | |
|---|--|
| 1 Disc indication | 8 Play list indication (21) |
| 2 Track number indication (23) | 9 Bookmark indication (21, 22)
During play, the indication shows a track has a Bookmark. |
| 3 Character information display (17) | 10 Timer indication (27)
Shows the OFF TIMER setting has been selected on the menu. |
| 4 Play mode indication (19 - 23) | |
| 5 SOUND indication (25, 26) | |
| 6 Battery indication (33) | |
| 7 Group indication (19, 20) | |

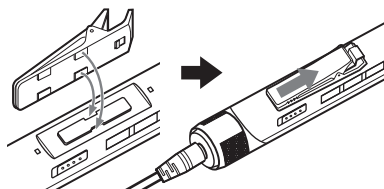
To use the clip on the remote control

You can remove the clip from the remote control and change the direction of the clip.

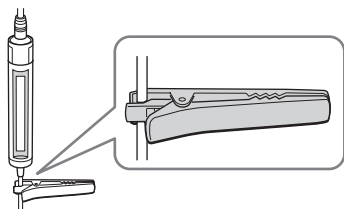
To remove



To attach in the reverse direction



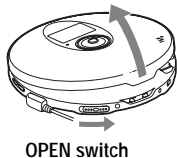
You can pass the cord of the remote control through this clip.



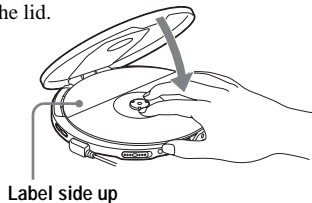
Playing a CD

1. Insert a CD.

- 1 Slide OPEN to open the CD player lid.



- 2 Place the CD on the tray and close the lid.



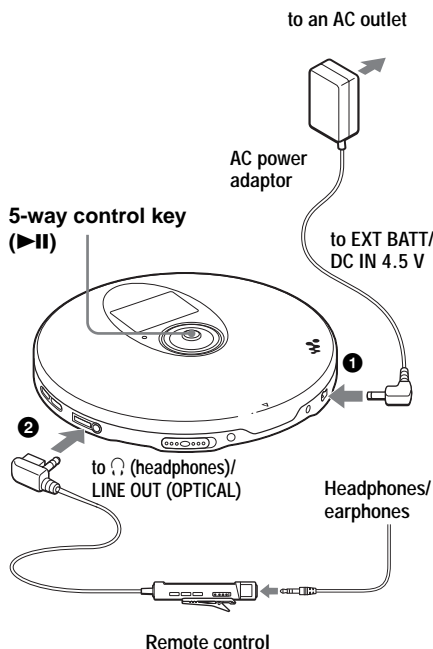
2. Connect your CD player.

You can use the following power sources:

- Rechargeable batteries (page 33)
- LR6 (size AA) alkaline batteries (external battery case) (page 35)
- AC power adaptor

We explain how to use your CD player on house current on this page. Connect the plugs and terminals securely.

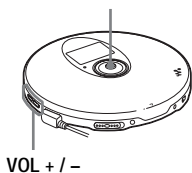
- 1 Connect the AC power adaptor.
- 2 Connect the headphones/earphones with the remote control to the CD player.



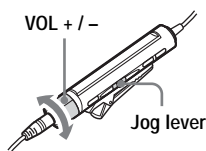
(Continued)

3. Play a CD.

5-way control key (▶||)



- ❶ Push the control key toward ▶||.
- ❷ Adjust the volume by pressing VOL + or -.



- ❶ Press the jog lever.
- ❷ Adjust the volume by turning VOL +/ -.

To	CD player	Remote control
Play (from a point where you stopped previously)	Push the control key toward ▶ . Playback starts from the point where you stopped.	Press the jog lever. Playback starts from the point where you stopped.
Play (from the first track)	While the CD player is stopped, push and hold the control key toward ▶ until the play of the first track starts.	While the CD player is stopped, press and hold the jog lever until the play of the first track starts.
Pause/resume play after pause	Push toward ▶ .	Press the jog lever.
Stop*2	Push toward ■/CHG.	Press ■.
Find the beginning of the current track (AMS*1)*2	Push toward ◀◀◀.	Flick the jog lever toward ◀◀◀ once.
Find the beginning of previous tracks (AMS)*3	Push toward ◀◀◀ repeatedly.	Flick the jog lever toward ◀◀◀ repeatedly.
Find the beginning of the next track (AMS)*2, *3	Push toward ▶▶▶.	Flick the jog lever toward ▶▶▶ once.
Find the beginning of succeeding tracks (AMS)*3	Push toward ▶▶▶ repeatedly.	Flick the jog lever toward ▶▶▶ repeatedly.
Go backwards quickly*2, *5	Push and hold toward ◀◀◀.	Hold the jog lever toward ◀◀◀.
Go forward quickly*2, *5	Push and hold toward ▶▶▶.	Hold the jog lever toward ▶▶▶.
Jump to succeeding groups*4	Press ◻ + repeatedly.	Press ◻ + repeatedly.
Jump to previous groups*4	Press ◻ - repeatedly.	Press ◻ - repeatedly.

*1 Automatic Music Sensor

*2 These operations can be carried out during both play and pause.

*3 After you have played the last track, you can return to the beginning of the first track by flicking the jog lever toward ▶▶▶ (by pushing the control key toward ▶▶▶ on the CD player). Similarly, if you are at the first track, you can locate the last track by flicking the jog lever toward ◀◀◀ (by pushing the control key toward ◀◀◀ on the CD player).

*4 Only when you play an ATRAC CD/MP3 CD

*5 These operations cannot be carried out when using an MP3 file recorded on a CD-R/RW in a packet write format.

Checking CD information on the display

You can check CD information by repeatedly pressing DISPLAY/MENU on the CD player or DISPLAY on the remote control.

When you are playing a CD containing text information such as CD-TEXT, “track name,” “album name,” “artist name,” etc. are displayed as shown in parentheses in the following table. When you are playing an ATRAC CD, information you input using the SonicStage software is displayed. When you are playing an MP3 CD containing MP3 files with an ID3 tag*1, ID3 tag information is displayed.

CD player

Each time you press DISPLAY/MENU, the display changes as follows:

Screen	Audio CD	ATRAC CD/MP3 CD
1	Track number, elapsed playing time (Track name, artist name, album name)	File name, artist name*3, group name, file number, elapsed playing time
2	Track number, remaining time of the current track (Track name, artist name)	File name, CODEC information*4, file number, remaining time of the current file
3	The total number of tracks on the CD, the total playing time of the CD, the number of tracks left*2, the time remaining on the CD*2	Total number of files, total number of groups, file number, elapsed playing time
4	List of track names	List of group names/file names

Remote control

Each time you press DISPLAY, the display changes as follows:

Audio CD	ATRAC CD/MP3 CD
Track number, elapsed playing time, (Track name)	File number, file name, elapsed playing time
Track number, remaining time of the current track (Track name, artist name)	File number, artist name, CODEC information*4, remaining time of the current file
The number of tracks left*2, the time remaining on the CD*2 (Album name, artist name)	Group name, total number of files
Animation screen	

*1 An ID3 tag is a format for adding certain information (track name, album name, artist name, etc.) to MP3 files. This CD player conforms to Version 1.1/2.2/2.3 of the ID3 tag format (for MP3 files only).

*2 Not displayed during Single play, Shuffle play, Bookmark track play, Auto ranking play, Auto ranking shuffle play or PGM play.

*3 During play, “artist name” is not displayed if the disc does not have ID3 tag information.

*4 Bit rate and sampling frequencies. While an MP3 file made at VBR (variable bit rate) is being played, “VBR” appears on the display instead of a bit rate. In some cases, “VBR” appears halfway through playback, not from the beginning.

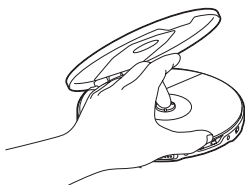
(Continued)

Notes

- The characters A - Z, a - z, 0 - 9, and _ can be displayed on this CD player.
- Before playing a file, the CD player reads all file and group (or folder) information on the CD. "READING" is displayed. Depending on the content of the CD, it may take some time to accomplish this reading.
- If the group does not have a group name, "ROOT" appears in the display.
- If the file does not have ID3 tag information, "- - -" appears in the display.

Removing the CD

Remove the CD while pressing the pivot in the center of the tray.



► Playback options

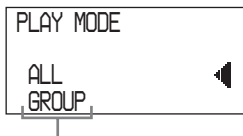
You can enjoy the following playback options using the P MODE/◀ button on the remote control or the menu function on the CD player.

- **Playing tracks repeatedly (Repeat play)**
- **Playing all files in a selected group (Group play)**
- **Playing a single track (Single play)**
- **Playing tracks in random order (Shuffle play)**
- **Playing files in a selected group in random order (Group shuffle play)**
- **Playing your favorite play lists (m3u play list play)**
- **Playing your favorite tracks by adding Bookmarks (Bookmark track play)**
- **Playing the 10 tracks you have played most frequently (Auto ranking play)**
- **Playing tracks you have played most frequently in random order (Auto ranking shuffle play)**
- **Playing tracks in your favorite order (PGM play)**

Selecting playback options on the CD player

Enter the PLAY MODE menu using the following procedures, then select each playback option.

- 1 Press DISPLAY/MENU until the MENU screen appears.
- 2 Press ⬆ or ⬇ to select "PLAY MODE," then press DISPLAY/MENU.
- 3 Press ⬆ or ⬇ to select the playback option you want.
The default setting is "ALL" (normal).



Playback options appear.

Selecting playback options using the remote control

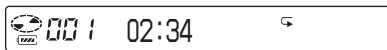
Press P MODE/◀ repeatedly to select the playback option you want.

Playing tracks repeatedly (Repeat play)

You can repeat various playback options.

Using the remote control

During play, press and hold P MODE/◀ until "◀" appears.



On the CD player




- 1 Press DISPLAY/MENU until the MENU screen appears.
- 2 Press ⬆ or ⬇ to select "REPEAT," then press DISPLAY/MENU.
- 3 Press ⬆ or ⬇ to select "ON," then press DISPLAY/MENU to enter the selection.

Playing all files in a selected group (Group play) (ATRAC CD/MP3 CD only)

During play, press P MODE/◀ repeatedly until "◻" appears. (CD player: Perform steps 1 and 2 of "Selecting playback options on the CD player" (this page), press ⬆ or ⬇ to select "GROUP," then press DISPLAY/MENU to enter the selection.)






Playing a single track (Single play)

During play, press **P MODE**/ repeatedly until "1" appears. (CD player: Perform steps 1 and 2 of "Selecting playback options on the CD player" (page 19), press  or  to select "1," then press **DISPLAY/MENU** to enter the selection.)







Playing tracks in random order (Shuffle play)

During play, press **P MODE**/ repeatedly until "SHUF" appears. (CD player: Perform steps 1 and 2 of "Selecting playback options on the CD player" (page 19) and press  or  to select "SHUFFLE", then press **DISPLAY/MENU** to enter the selection.)







Playing all files in a selected group in random order (Group shuffle play) (ATRAC CD/MP3 CD only)

During play, press **P MODE**/ repeatedly until " SHUF" appears. (CD player: Perform steps 1 and 2 of "Selecting playback options on the CD player" (page 19) and press  or  to select "GROUP SHUFFLE", then press **DISPLAY/MENU** to enter the selection.)







Playing your favorite play lists (m3u play list play) (MP3 CD only)


You can play your favorite m3u play lists.*
* An "m3u play list" is a file for which an MP3 file playing order has been encoded. To use the play list function, record MP3 files on a CD-R/RW using encoding software that supports the m3u format.

- 1 During play, press **P MODE**/ repeatedly until "" (play list) appears. (CD player: Perform steps 1 and 2 of "Selecting playback options on the CD player" (page 19) and press  or  to select "PLAY LIST", then press **DISPLAY/MENU** to enter the selection.)



- 2 Flick the jog lever toward  or  to select a play list you want. (CD player: Press  or  to select a play list.)



- 3 Press the jog lever. (CD player: Push the 5-way control key toward .)



Playing your favorite tracks by adding Bookmarks (Bookmark track play)









While the CD player is playing, you can add Bookmarks to the tracks you want and play them only.

Audio CD: up to 99 tracks for each CD (up to 10 CDs)






ATRAC CD: up to 999 tracks for each CD (up to 5 CDs)

MP3 CD: up to 999 tracks for each CD (up to 5 CDs)

Adding Bookmarks*




- 1 During play of the track to where you want to add a Bookmark, press and hold the jog lever until "" flashes. (CD player: Push and hold the 5-way control key toward  until "" flashes.) When the Bookmark has been added successfully, "" flashes slower.
- 2 Flick the jog lever toward  or  (CD player: Push the 5-way control key toward  or ) to select the track to where you want to add a Bookmark, then repeat step 1 to add Bookmarks to the tracks you want.

Playing the tracks with Bookmarks


- 1 Press **P MODE**/ repeatedly until "" (Bookmark) flashes frequently. (CD player: Perform steps 1 and 2 of "Selecting playback options on the CD player" (page 19), press  or  to select "BOOK MARK," then press **DISPLAY/MENU**. The play of the tracks with the Bookmarks starts.)
- 2 Press the jog lever to light up "". The play of the tracks with the Bookmarks starts.

Playing your favorite tracks by adding Bookmarks

To remove the Bookmarks*

During play of the track with a Bookmark, press and hold the jog lever until “” disappears from the display. (CD player: Push and hold the 5-way control key toward  until “” disappears from the display.)

To check the tracks with Bookmarks*

During playback of the tracks with Bookmarks, “” flashes slowly in the display.




* Perform these operations only when Screen 1 or 2 is displayed (page 17).

Notes

- During play of tracks with Bookmarks, tracks are played in order of track number, and not in the order you added the Bookmarks.
- If you try to add Bookmarks to the tracks on the 11th CD (on a 6th CD when playing ATRAC CDs/MP3 CDs), the Bookmarks of the CD you played first will be erased.
- All Bookmarks stored in memory will be erased:
 - if you remove all the power sources, or
 - if you continue playing the CD player on the rechargeable batteries without charging the batteries even though “Lobatt” is displayed.

Playing the 10 tracks you have played most frequently (Auto ranking play)




The CD player automatically memorizes up to 10 tracks you have played most frequently from the CD being played, and plays them from the 10th to the top.

During play, press P MODE/ repeatedly to select “a00 (auto ranking)” and press the jog lever to enter the selection. (CD player: Perform steps 1 and 2 of “Selecting playback options on the CD player” (page 19), press  or  to select “AUTO RANKING;” then press DISPLAY/MENU to enter the selection.)



Playing tracks you have played most frequently in random order (Auto ranking shuffle play)

The CD player plays up to 32 tracks which the player has automatically memorized as the most frequently played ones. In Auto ranking shuffle play, these tracks are played in random order.

During play, press P MODE/ repeatedly to select “a00 (auto ranking) SHUF” and press the jog lever to enter the selection. (CD player: Perform steps 1 and 2 of “Selecting playback options on the CD player” (page 19), press  or  to select “RANKING SHUF;” then press DISPLAY/MENU to enter the selection.)






Note

The CD player memorizes the tracks you have played from up to 10 CDs, whether you have changed the CDs or not. If the CD player tries to memorize tracks from an 11th CD, the data memorized first will be erased.

Playing tracks in your favorite order (PGM play)

You can program the CD player to play up to 64 tracks in your favorite order.

- 1 During play is stopped, press **P MODE**/ repeatedly until “PGM” (program) appears. (CD player: Perform steps 1 and 2 of “Selecting playback options on the CD player” (page 19) and press  or  to select “PROGRAM”, then press **DISPLAY/MENU** to enter the selection.)

Audio CD/CD-TEXT









Track number Playing order

ATRAC CD/MP3 CD

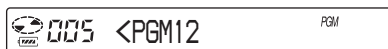


Playing order File name


- 2 Flick the jog lever toward  or  to select the track you want, then press and hold the jog lever until the display changes to enter the selection. (CD player: Push the 5-way control key toward  or  to select the track and press **DISPLAY/MENU** to enter the selection.)

The track has been stored in memory. When playing an ATRAC CD/MP3 CD, you can also select a group using  + or  -.

Audio CD/CD-TEXT



When playing an ATRAC CD/MP3 CD, a playing order and a file name are displayed.

- 3 Repeat step 2 to select the tracks in your favorite order.
- 4 Press the jog lever to start PGM play. (CD player: Push the 5-way control key toward .)

(Continued)

Playing tracks in your favorite order

Checking the program

While programming:

Press and hold the jog lever repeatedly before step 4. (CD player: Push and hold the 5-way control key toward ►|| repeatedly or press DISPLAY/MENU repeatedly.)

While play is stopped:

Press DISPLAY. While the indications are displayed, press P MODE/◀ repeatedly until "PGM" flashes, then press the jog lever until the display changes. (CD player: Press DISPLAY/MENU repeatedly until the list of the tracks programmed appears. To display tracks from the third track on, push the 5-way control key toward ►||.)

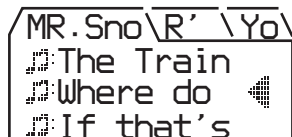
Notes

- When you finish entering the 64th track in step 3, the first selected track number (audio CD) or the first selected file name (ATRAC CD/MP3 CD) appears on the display.
- If you select 65 tracks or more, the first selected tracks are erased.

Searching for groups or tracks/files

While the CD player is playing, you can search for and play the group (ATRAC CD only) or track/file you want quickly using ⬆ or ⬇ on the CD player.

- 1 During play, press ⬆ or ⬇ until the search screen appears.



- 2 Press ◻ + or ◻ - to select the group you want, then push the 5-way control key toward ►||.

The CD player starts playing from the first file in the group you selected.

Selecting the track/file you want

- 1 Perform step 1 above, then press ◻ + or ◻ - to select the group you want.
- 2 Press ⬆ or ⬇ to select the track/file you want, then push the 5-way control key toward ►||.

The CD player starts playing from the track/ file you selected.

To exit the search mode

Push the 5-way control key toward ■/CHG. If about 40 seconds at most have passed without any operation being performed, the screen returns to the previous one.

Note

If you try to operate the CD player using the remote control during a search, "MENU" appears and you cannot perform any operation.

Adjusting sound quality (Parametric equalizer)

You can enjoy your favorite sounds by adjusting sound quality in the following two ways:

- Selecting a preset sound pattern →
“Selecting the sound quality you want”
- Adjusting sound quality by yourself →
“Customizing sound quality”

Selecting the sound quality you want

Indication	Sound quality
SOFT/ SOUND S	For vocals, stressing middle range audio
ACTIVE/ SOUND A	Lively sounds, emphasizing high and low range audio
HEAVY/ SOUND H	Powerful sounds, further emphasizing high and low ranges compared with ACTIVE sound
CUSTOM/ SOUND C	Customized sound

Using the remote control

Press SOUND repeatedly to select the sound quality you want.

On the CD player

- 1 Press DISPLAY/MENU until the MENU screen appears.
- 2 Press \uparrow or \downarrow to select “SOUND;” then press DISPLAY/MENU .
- 3 Press \uparrow or \downarrow to select the sound quality you want, then press DISPLAY/MENU to enter the selection.

Customizing sound quality

You can customize sound quality by adjusting the sound volume in the 3 frequency ranges “LOW” (low range audio), “MID” (middle range audio) and “HIGH” (high range audio). For each frequency range, you can select the wave pattern from among 3 patterns, and can also adjust the sound volume in 7 levels for the pattern you select.

Adjust sound quality by checking the shape of the wave on the display.

- 1 Press SOUND repeatedly to select “SOUND C”, then press SOUND until the display changes. (CD player: Perform steps 1 - 3 of “Selecting the sound quality you want” and select “CUSTOM.”)

- 2 Flick and hold the jog lever toward \lll or \ggg until the frequency range you want appears. (CD player: Push the 5-way control key toward \lll or \ggg for 2 seconds or more to select the frequency range.)

“LOW” is displayed first. (CD player: “LOW” flashes.)



(Continued)

Adjusting sound quality

- 3** Flick the jog lever toward **◀◀** or **▶▶** repeatedly to select the shape of the wave from the 3 shapes stored in memory for each frequency range, then turn the VOL +/- repeatedly to select the sound volume. (CD player: Push the 5-way control key toward **◀◀** or **▶▶** repeatedly to select the shape of the wave, then press **⬆** or **⬇** to select the sound volume.)



- Ⓐ: Frequency range
Ⓑ: Sound volume (To turn up the volume, use VOL -. To turn it down, use VOL +.)



- 4** Repeat steps 2 and 3 to make adjustment for the remaining 2 frequency ranges.
- 5** Press the jog lever to enter the selection. (CD player: Press DISPLAY/MENU to enter the selection.)

To return to the previous screen

Press **◀** on the CD player.

To cancel the adjustment operation

Press **■** for 2 seconds or more. (CD player: Push the 5-way control key toward **■**/CHG.)

Notes

- When you select CUSTOM sound, sound may be distorted depending on your sound settings when you turn up the volume. If this happens, turn the volume down.
- You may feel a difference in sound volume between the CUSTOM sound setting and other sound settings. Adjust the volume for your preference.

The G-PROTECTION function

The G-PROTECTION function has been developed to provide excellent protection against sound skipping during many active uses.

- 1** While play is stopped, press **DISPLAY** until the display changes. (CD player: While play is stopped, press **DISPLAY/MENU** until the MENU screen appears. Press **⬆** or **⬇** to select "OPTION," then press **DISPLAY/MENU**.)
- 2** Flick the jog lever toward **◀◀** or **▶▶** to select "G-PRO," then press the jog lever to enter the selection. (CD player: Press **⬆** or **⬇** to select "G-PROTECTION," then press **DISPLAY/MENU** to enter the selection.)
- 3** Flick the jog lever toward **◀◀** or **▶▶** to select "G-PRO 1" or "G-PRO 2," then press the jog lever to enter the selection. (CD player: Press **⬆** or **⬇** to select "G-PRO 1" or "G-PRO 2," then press **DISPLAY/MENU** to enter the selection.)

If you select “G-PRO 2,” the G-PROTECTION function will be enhanced compared to “G-PRO 1.” To enjoy high quality CD sound, select “G-PRO 1.”

Note

Sound may skip:

- if the CD player receives stronger continuous shock than expected,
- if a dirty or scratched CD is played, or
- when using poor-quality CD-Rs/RWs or if there is a problem with the original recording device or application software.

Protecting your hearing (AVLS)

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

- 1 Press DISPLAY until the display changes. (CD player : Press DISPLAY/MENU until the MENU screen appears. Press \uparrow or \downarrow to select “OPTION,” then press DISPLAY/MENU.)**
- 2 Flick the jog lever toward \lll or \ggg to select “AVLS,” then press the jog lever to enter the selection. (CD player: Press \uparrow or \downarrow to select “AVLS,” then press DISPLAY/MENU to enter the selection.)**
- 3 Flick the jog lever toward \lll or \ggg to select “ON,” then press the jog lever to enter the selection. (CD player: Press \uparrow or \downarrow to select “ON,” then press DISPLAY/MENU to enter the selection.)**

To cancel the AVLS function

Perform steps 1 - 3, changing the AVLS setting to “OFF.”

Stopping playback automatically (OFF TIMER)

You can set the CD player to stop the play automatically within a range of 1 to 99 minutes. While the timer function is working, the following indications appear:

- CD player: “(⏸)” appears at about 5-second intervals.*
 - Remote control: “(⏸)” is displayed.
- * When Screen 1, 2 or 3 is displayed (Audio CD: when Screen 1 or 2 is displayed) (page 17)

- 1 Press DISPLAY until the display changes. (CD player: Press DISPLAY/MENU until the MENU screen appears. Press \uparrow or \downarrow to select “OPTION,” then press DISPLAY/MENU.)**
- 2 Flick the jog lever toward \lll or \ggg to select “TIMER,” then press the jog lever to enter the selection. (CD player: Press \uparrow or \downarrow to select “TIMER,” then press DISPLAY/MENU to enter the selection.)**
- 3 Flick the jog lever toward \lll or \ggg to select “10 min**.” (CD player: Press \uparrow or \downarrow to select “10 min,” then press DISPLAY/MENU.)**

* Default setting. If you have changed the setting, the length of time already set appears.

(Continued)

Stopping playback automatically

4 Turn VOL +/- to select the length of time you want to set, then press the jog lever to enter the selection. (CD player: Press \uparrow or \downarrow to select the length of time you want to set, then press DISPLAY/MENU to enter the selection.)

- To increase/decrease by 5 minutes:
Turn VOL +/- repeatedly. (CD player: Press \uparrow or \downarrow repeatedly.)
- To increase/decrease by 1 minute:
Keep turning VOL +/- . (CD player: Press \uparrow or \downarrow for 2 seconds or more.)

To return to the previous screen

Press \blacksquare . (CD player: Press \square -.)

To cancel the setting operation

Press DISPLAY or \blacksquare for 2 seconds or more. (CD player: Push the 5-way control key toward \blacksquare /CHG.)

To check the length of time before the CD player stops playback

During play, perform steps 1 - 3.

To cancel the OFF TIMER function

Perform steps 1 - 3, changing the OFF TIMER setting to "OFF."

Locking the controls (HOLD)

You can lock the controls on your CD player to prevent accidental button presses.

The OPR lamp flashes if you press any button when the HOLD function is activated.

Slide HOLD in the direction of the arrow.

You can use the HOLD function with both the CD player and the remote control. You can still operate your CD player using the remote control when HOLD on the remote control is set to off.

To unlock the controls

Slide HOLD in the direction opposite to that of the arrow.

Note

Even if the HOLD function is working, "HOLD" will not appear in the display of the remote control.

Turning off the beep sound

You can turn off the beep sound that is heard from your headphones/earphones when you operate your CD player.

1 Press DISPLAY until the display changes. (CD player: Press DISPLAY/MENU until the MENU screen appears. Press \uparrow or \downarrow to select "OPTION," then press DISPLAY/MENU.)

2 Flick the jog lever toward **◀◀** or **▶▶** to select “BEEP,” then press the jog lever to enter the selection. (CD player: Press **⬆** or **⬇** to select “BEEP,” then press **DISPLAY/MENU** to enter the selection.)

3 Flick the jog lever toward **◀◀** or **▶▶** to select “OFF,” then press the jog lever to enter the selection. (CD player: Press **⬆** or **⬇** to select “OFF,” then press **DISPLAY/MENU** to enter the selection.)

To turn on the beep sound

Perform steps 1 - 3, changing the BEEP setting to “ON.”

Saving power

You can select lighting options for the OPR lamp on the CD player so that you can save battery power.

1 Press **DISPLAY** until the display changes. (CD player: Press **DISPLAY/MENU** until the **MENU** screen appears. Press **⬆** or **⬇** to select “OPTION,” then press **DISPLAY/MENU**.)

2 Flick the jog lever toward **◀◀** or **▶▶** to select “LIGHT,” then press the jog lever to enter the selection. (CD player: Press **⬆** or **⬇** to select “LIGHT,” then press **DISPLAY/MENU** to enter the selection.)

3 Flick the jog lever toward **◀◀** or **▶▶** to select “LIGHT OFF” or “LIGHT 2,” then press the jog lever to enter the selection. (CD player: Press **⬆** or **⬇** to select “LIGHT OFF” or “LIGHT 2,” then press **DISPLAY/MENU** to enter the selection.)

About the LIGHT setting

Setting	OPR lamp on the CD player
LIGHT OFF	Turned off
LIGHT 1	Lights up fully during play or during operation
LIGHT 2*	Lights up with less brightness during play or during operation

* You can save power by selecting “LIGHT 2” rather than “LIGHT 1.”

Playing tracks continuously (SEAMLESS) (ATRAC CD only)

You can play live concert music, etc. without space between the tracks.

- 1** While play is stopped, press **DISPLAY** until the display changes. (CD player: While play is stopped, press **DISPLAY/MENU** until the **MENU** screen appears. Press \uparrow or \downarrow to select “**OPTION**,” then press **DISPLAY/MENU**.)
 - 2** Flick the jog lever toward **I◀◀** or **▶▶I** to select “**SEAMLESS**,” then press the jog lever to enter the selection. (CD player: Press \uparrow or \downarrow to select “**SEAMLESS**,” then press **DISPLAY/MENU** to enter the selection.)
 - 3** Flick the jog lever toward **I◀◀** or **▶▶I** to select “**ON**,” then press the jog lever to enter the selection. (CD player: Press \uparrow or \downarrow to select “**ON**,” then press **DISPLAY/MENU** to enter the selection.)
-

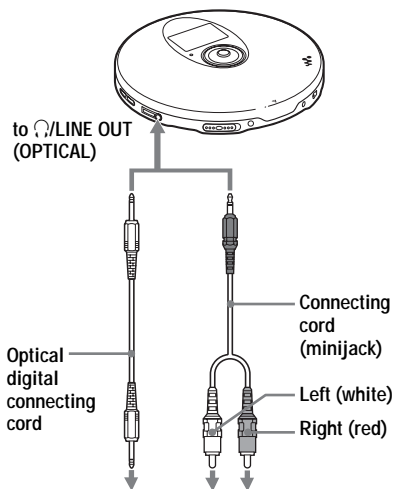
Note

The tracks may not be played continuously depending on how the source music was recorded.

Connecting a stereo system

You can listen to CDs through a stereo system and record CDs on a cassette tape or MiniDisc. For details, see the instruction manual that comes with the device you want to connect.

Be sure to turn off all devices before making connections.



1 While play is stopped, press **DISPLAY** until the display changes. (CD player: While play is stopped, press **DISPLAY/MENU** until the **MENU** screen appears. Press \uparrow or \downarrow to select “**OPTION**,” then press **DISPLAY/MENU**.)

2 Flick the jog lever toward **◀◀** or **▶▶** to select “**AUDIO OUT**,” then press the jog lever to enter the selection. (CD player: Press \uparrow or \downarrow to select “**AUDIO OUT**,” then press **DISPLAY/MENU** to enter the selection.)

3 Flick the jog lever toward **◀◀** or **▶▶** to select the setting appropriate for the connected device, then press the jog lever to enter the selection. (CD player: Press \uparrow or \downarrow to select the setting, then press **DISPLAY/MENU** to enter the selection.)

Connected device*	Setting
Headphones	“HP”
Device connected using the connecting cord	“LINE”

* When you connect the device using the optical digital connecting cord, you do not have to choose the setting. The setting will be switched to that for an optical connection automatically.

(Continued)

Connecting a stereo system


Notes

- Before you play a CD, turn down the volume of the connected device to avoid damaging the connected speakers.
- Use the AC power adaptor for recording. If you use the rechargeable batteries or dry batteries as a power source, the batteries may become completely depleted during recording.
- Adjust the volume properly on the connected device so that the sound will not be distorted.
- This CD player uses the Serial Copy Management System, which allows only first-generation digital copies to be made.
- When recording or playing an ATRAC CD/MP3 CD using a connected device, use only the analog connecting cord.
- If you change the connected device, make sure to change the "AUDIO OUT" setting.

When the headphones or other devices are connected to the /LINE OUT (OPTICAL) jack

When an optical digital connecting cord is connected, the output is automatically switched to an optical digital output.

When a remote control or a connecting cord is connected, the current AUDIO OUT setting ("HP" or "LINE") flashes for about 5 seconds.

If you connect another device to the /LINE OUT (OPTICAL) jack, first remove the device and connect the headphones again, then switch the AUDIO OUT setting to "HP"

When AUDIO OUT is set to "LINE"

You cannot adjust the volume of using VOL +/- on the CD player or the remote control.

When using an optical digital connecting cord

To record a CD on a MiniDisc, DAT, etc., make sure that the CD player is paused before starting the recording procedures.

About the G-PROTECTION and equalizer functions when using the connecting cord or the optical digital connecting cord

- To record high quality CD sound, set the G-PROTECTION setting to "G-PRO 1" on the menu.
- If the AUDIO OUT setting is set to "LINE," the parametric equalizer function does not work.

► Connecting to a power source

You can check the remaining power of the batteries in the display.





Lobatt*

* Beep sounds.

When the batteries are depleted, charge the rechargeable batteries or replace the dry batteries with new ones.

- Using the rechargeable batteries (this page)
- Using the dry batteries (external battery case) (page 35)

Notes

- The indicator sections of  roughly show the remaining battery power. One section does not always indicate one-fourth of the battery power.
- Depending on operating conditions, the indicator sections of  may increase or decrease.
- When using the rechargeable batteries and dry batteries together to extend power, use a fully charged rechargeable batteries and new dry batteries.

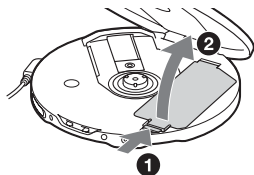
For the battery life and charging time of the rechargeable batteries, see “Specifications.”

Using the rechargeable batteries

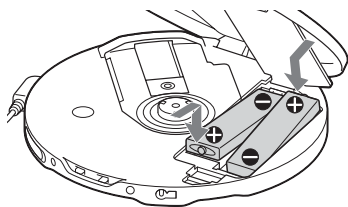
Charge the rechargeable batteries before using them for the first time. To keep the original battery capacity for a long time, charge the batteries only when it is completely depleted. You can use only the following rechargeable batteries for your CD player.

- NH-10WM (supplied)
- NH-14WM (not supplied)

- 1** Slide OPEN to open the lid of your CD player, then open the battery compartment lid inside the player.




- 2** Insert rechargeable batteries by matching the ⊕ to the diagram in the battery compartment and close the lid until it clicks into place.



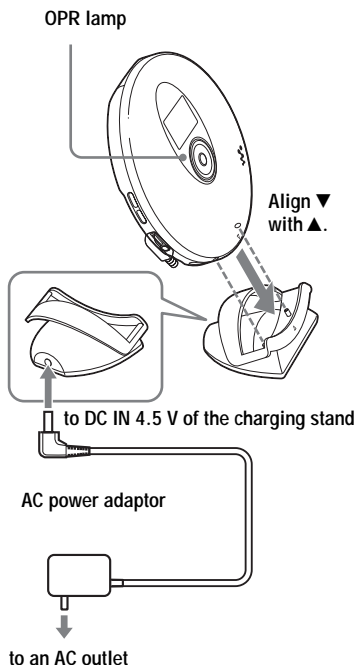
Insert the ⊖ end first
(for both batteries).

(Continued)

3 Connect the AC power adaptor to the DC IN 4.5 V jack of the supplied charging stand and an AC outlet. Then place the CD player on the supplied charging stand, aligning the ▼ mark on the CD player with the ▲ mark on the stand.

Charging of the batteries starts. In the display of the remote control, “Charging” indication flashes and the indicator sections of  light up in succession. The OPR lamp lights up on the CD player.

When the batteries is completely charged, all indications on the display disappear and the OPR lamp goes off.

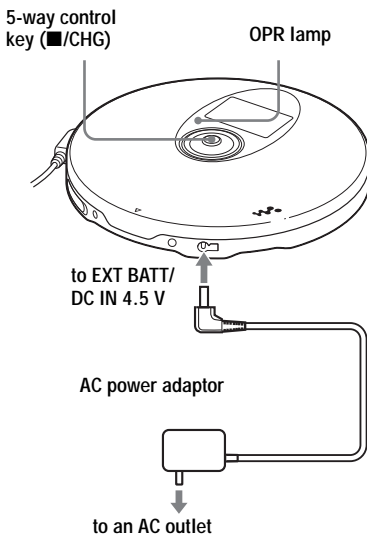


Notes on the supplied charging stand

- The supplied charging stand can be used only with this CD player. No other model can be charged using this stand.
- When using the supplied charging stand, charge the NH-10WM rechargeable batteries only. Do not charge any other batteries.
- During charging, the CD player and the rechargeable batteries become hot. This poses no danger.
- Do not place coins or other metallic objects on the charging stand. If the terminal on the charging stand is accidentally brought into contact with a metallic object, it may short-circuit and begin to heat up.

To charge the rechargeable batteries without using the supplied charging stand

Connect the AC power adaptor to the EXT BATT/DC IN 4.5 V jack of your CD player and an AC outlet, then push the 5-way control key toward ■/CHG. Charging starts.

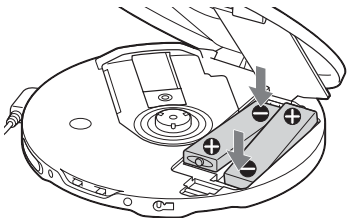


Notes

- When charging the batteries using the charging stand, be sure to remove the external battery case.
- During charging, the CD player and the rechargeable batteries become hot. This poses no danger.
- If you push the 5-way control key toward ►|| lever during charging, charging stops and playback of the CD starts.
- If you place the CD player on the charging stand during play, play stops and charging starts.
- Place the CD player on the charging stand securely, aligning the ▼ mark on the CD player with the ▲ mark on the stand. Make sure that the OPR lamp on the CD player lights up. Wrong placement interrupts charging or play.

To remove the rechargeable batteries

Push ⊖ end to remove the batteries.



When to replace the rechargeable batteries

If the battery life becomes shorter by about half, replace the batteries with new rechargeable batteries.

Note on the rechargeable batteries

If the batteries are new or have not been used for a long time, they may not be charged completely. In that case, charge them until the OPR lamp goes off and then use the CD player until the batteries are depleted completely ("Lobatt" appears in the display). Repeat this procedure several times.

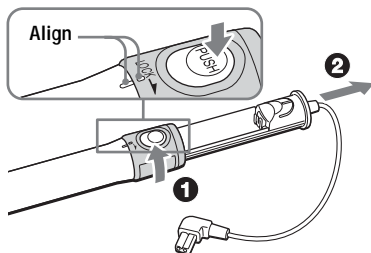
Note on carrying the rechargeable batteries

Use the supplied battery carrying case to prevent unexpected heat. If the rechargeable batteries and the metallic objects are contacted, heat or fire may occur due to a short circuit.

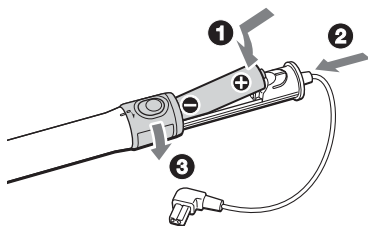
Using the dry batteries

You can extend power by inserting rechargeable batteries in the CD player and attaching the external battery case.

- 1** Align the lines below PUSH as illustrated, then draw out the battery case while pressing PUSH.

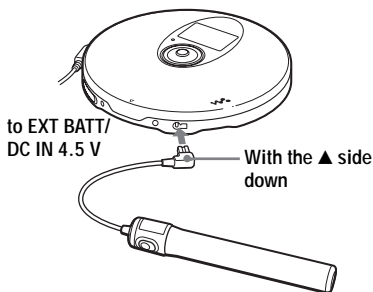


- 2** Insert two LR6 (size AA) alkaline batteries (not supplied) by matching the ⊕ to the diagram in the battery case. Insert the battery case and lock the case by turning LOCK in the direction of the arrow.



(Continued)

3 Connect the external battery case to the CD player.



Notes

- When the batteries are depleted, replace the batteries with new ones.
- The batteries in the CD player and those in the external battery case are discharged simultaneously.

Notes on the power source

Disconnect all power sources when the CD player is not used for a long time.

On AC power adaptor

- Use only the AC power adaptor supplied. If your CD player is not supplied with the one, use the AC-E45HG AC power adaptor. Do not use any other AC power adaptor. It may cause a malfunction.

Polarity of the plug



- Do not touch the AC power adaptor with wet hands.
- Connect the AC power adaptor to an easily accessible AC outlet. Should you notice an abnormality in the AC power adaptor, disconnect it from the AC outlet immediately.

On rechargeable batteries and dry batteries

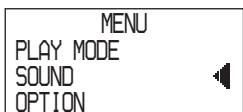
- Do not charge the dry batteries.
- Do not throw the batteries into fire.
- Do not carry the batteries with coins or other metallic objects. It can generate heat if the positive and negative terminals of the batteries are accidentally contacted by a metallic object.
- Do not mix rechargeable batteries with 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 battery leakage occurs, wipe off any deposit in the battery compartment, and install new batteries. In case the deposit adheres to you, wash it off thoroughly.

List of menus

On the CD player, press DISPLAY/MENU until the MENU screen appears, then press \uparrow or \downarrow to select the menu you want.

On the remote control, press SOUND (for sound settings) or DISPLAY (for other settings) repeatedly.

CD player



Remote control



To return to the previous screen, press \blacksquare (CD player: press \square *1).

To cancel the setting operation, press DISPLAY (for OPTION menu only) or \blacksquare for 2 seconds or more (CD player: push the 5-way control key toward \blacksquare /CHG).

Items marked \bullet are default settings.

For playback options, see page 19.

Setting of sound (page)	Menu 1 \rightarrow	Menu 2 \rightarrow	Menu 3
Adjusting sound quality (25)	SOUND*2	\bullet OFF SOFT ACTIVE HEAVY CUSTOM	—
Setting various functions (page)	Menu 1 \rightarrow	Menu 2 \rightarrow	Menu 3
Protecting against sound skipping (26)	OPTION	G-PROTECTION*4	\bullet G-PRO 1 G-PRO 2
Protecting your hearing (27)	OPTION	AVLS	ON \bullet OFF
Stopping playback automatically (27)	OPTION	TIMER	10 min*3 \bullet OFF
Connecting a stereo system (31)	OPTION	AUDIO OUT*4	\bullet HP LINE
Turning off the beep sound (28)	OPTION	BEEP	\bullet ON OFF
Saving power (29)	OPTION	LIGHT	LIGHT OFF \bullet LIGHT 1 LIGHT 2
Playing tracks continuously (30)	OPTION	SEAMLESS*4, *5	ON \bullet OFF

*1 When "PGM" is not displayed.

*2 Displayed on the CD player only.

*3 Default setting. If you have changed the setting, the length of time already set appears.

*4 You can make these settings while play is stopped.

*5 For ATRAC CD only

Precautions

On safety

- Should any solid objects or liquid fall into the CD 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 the CD player

- Keep the lens on the CD player clean and do not touch it. If you do so, the lens may be damaged and the CD player will not operate properly.
- Do not put any heavy object on top of the CD player. The CD player and the CD may be damaged.
- Do not leave the CD 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 CD player causes interference to the radio or television reception, turn off the CD player or move it away from the radio or television.
- Discs with non-standard shapes (e.g., heart, square, star) cannot be played on this CD player. Attempting to do so may damage the CD player. Do not use such discs.

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.

On headphones/earphones

Road safety

Do not use headphones/earphones while driving, cycling, or operating any motorized vehicle. It may create a traffic hazard and is illegal in some areas. It can also be potentially dangerous to play your headsets at high volume while walking, especially at pedestrian crossings. You should exercise extreme caution or discontinue use in potentially hazardous situations.

Preventing hearing damage

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

Consideration for others

Keep the volume at a moderate level. This will allow you to hear outside sounds and to be considerate to the people around you.

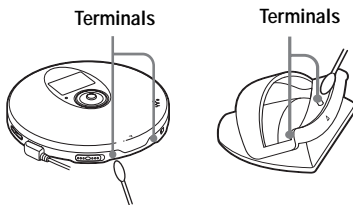
Maintenance

To clean the casing

Use a soft cloth slightly moistened in water or a mild detergent solution. Do not use alcohol, benzine or thinner.

To clean the terminals

If the terminals on the charging stand or on the CD player become dirty, the batteries may not be charged properly. Clean the terminals with a cotton swab or a dry cloth periodically as illustrated below.



Troubleshooting



Should any problem persist after you have checked these symptoms, consult your nearest Sony dealer.

Symptom	Cause and/or corrective action
The volume does not increase even if you turn VOL +/- in the + direction repeatedly (even if you press VOL + repeatedly on the CD player).	<ul style="list-style-type: none">→ AVLS is set to "ON". Set it to "OFF." (page 27)→ AUDIO OUT is set to "LINE". Set it to "HP." (page 31)
No sound, or noise is heard.	<ul style="list-style-type: none">→ Connect the headphones/earphones plugs firmly. (page 15)→ Plugs are dirty. Clean the headphones/earphones plugs with a dry soft cloth periodically.
Certain files cannot be played.	<ul style="list-style-type: none">→ You tried to play files saved in a format that is not compatible with this CD player. (page 6)
The playing time is too short when powered with the dry batteries.	<ul style="list-style-type: none">→ Check that you are using alkaline batteries and not manganese batteries. (pages 35 - 36)→ Replace the batteries with new LR6 (size AA) alkaline batteries. (pages 35 - 36)
The playing time is too short when powered with the rechargeable batteries.	<ul style="list-style-type: none">→ Charge and discharge the rechargeable batteries several times. (page 35)
"Lobatt" appears in the display. The CD does not play.	<ul style="list-style-type: none">→ The rechargeable batteries are used up completely. Charge the batteries. (pages 33 - 35)→ Replace the batteries with new LR6 (size AA) alkaline batteries. (pages 35 - 36)
"HI dc In" appears in the display.	<ul style="list-style-type: none">→ An AC power adaptor which is rated higher than the one supplied or recommended is being used. Use only the supplied AC power adaptor or the car battery cord recommended in "Optional accessories." (page 43)

(Continued)

Troubleshooting

Symptom	Cause and/or corrective action
The CD does not play or "No disc" appears in the display when a CD is placed in the CD player.	<ul style="list-style-type: none">→ The CD is dirty or defective.→ Check that the CD is inserted with the label side up. (page 15)→ Moisture condensation has occurred. Leave the CD player aside for several hours until the moisture evaporates.→ Close the lid of the battery compartment firmly. (page 33)→ Make sure the batteries are inserted correctly. (pages 33, 35)→ Connect the AC power adaptor to an AC outlet securely. (page 15)→ Press the jog lever (CD player: push the 5-way control key toward ►) after one second or more has passed since the AC power adaptor was connected.→ The CD-R/RW is blank.→ There is a problem with the quality of the CD-R/RW, recording device, or application software.
OPR lamp flashes on the CD player when you press a button, and the CD does not play.	<ul style="list-style-type: none">→ The buttons are locked. Slide the HOLD switch back. (page 28)
Cannot adjust the volume	<ul style="list-style-type: none">→ AUDIO OUT is set to "LINE." Adjust the volume using the volume control on the connected device. (page 31)→ Set AUDIO OUT to "HP." Adjust the volume using VOL +/- on the CD player. (page 31)
During recording with optical digital connection, the track number cannot be recorded correctly.	<ul style="list-style-type: none">→ Record the track number again using a MiniDisc recorder, DAT recorder, etc. (page 31)→ See the instruction manual that comes with the recording device. (page 31)
The rechargeable batteries cannot be charged.	<ul style="list-style-type: none">→ The rechargeable batteries are not inserted in the battery compartment.→ The terminals on the CD player or the charging stand are dirty. Wipe them with a dry soft cloth. (page 38)→ The CD is playing. Stop playing.→ The CD player is not placed securely on the charging stand. Place the player on the stand, aligning the ▼ mark on the player and the ▲ mark on the stand. Make sure that the OPR lamp lights up. (page 34)
Playback starts from the point you stopped. (resume function)	<ul style="list-style-type: none">→ The resume function is working. To start play from the first track, press the jog lever during stop (CD player: Push and hold the 5-way control key toward ►) until the first track starts playing, or open the lid of the CD player. Or remove all power sources, then insert the batteries or connect the AC power adaptor again. (pages 15, 16, 33, 35, 36)
Rustling noise is heard from the CD.	<ul style="list-style-type: none">→ Close the lid of the battery compartment firmly. (page 33)
When using with a connected stereo system, the sound is distorted or noisy.	<ul style="list-style-type: none">→ AUDIO OUT is set to "LINE." Adjust the volume of the connected device. (page 31)→ AUDIO OUT is set to "HP." Adjust the volume using VOL +/- on the CD player. (page 31)

Symptom	Cause and/or corrective action
During playback of an ATRAC CD or MP3 CD, the CD does not rotate but you can hear the sound normally.	→ The CD player is designed to stop the rotation of an ATRAC CD or MP3 CD during playback to reduce the power consumption. The player is not malfunctioning.
"NO FILE" appears in the display after the jog lever is pressed (CD player: after you push the 5-way control key toward ) or the lid of the CD player is closed.	<ul style="list-style-type: none"> → There are no ATRAC3plus/ATRAC3/MP3 files in the CD. → A CD-R/RW from which the data has been erased is being used. → The CD is dirty.
When closing the lid of the CD player, the CD starts to rotate.	→ The CD player is reading the information on the CD. The player is not malfunctioning.
The LCD display becomes hard to see or slows down.	→ You are using your CD player at high temperatures (above 40°C/104°F) or at low temperatures (below 0°C/32°F). At room temperature, the display will return to its normal operating condition.
"  " is flashing quickly in the display of the remote control, and you cannot locate the beginning of the track or a specific point in the track.	→ The CD player has entered the preparation stage of Bookmark track play. Change the PLAY MODE setting to "ALL".
You cannot operate the CD player properly using the remote control.	→ The buttons on the CD player are kept pressed by mistake.
Play is stopped abruptly.	→ OFF TIMER has been set. Change the setting to "OFF".

Specifications

System

Compact disc digital audio system

Laser diode properties

Material: GaAlAs

Wavelength: $\lambda = 770 - 800 \text{ nm}$

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 with 7 mm aperture.)

D-A conversion

1-bit quartz time-axis control

Frequency response

20 - 20 000 Hz ± 1 dB (measured by JEITA)

Output (at 4.5 V input level)

Line output (stereo minijack)

Output level 0.7 V rms at 47 k Ω

Recommended load impedance over 10 k Ω

Headphones (stereo minijack)

Approx. 5 mW + Approx. 5 mW at 16 Ω

(Approx. 1.5 mW + Approx. 1.5 mW at 16 Ω)*

*For the customers in Europe

Optical digital output (optical output connector)

Output level: -21 - -15 dBm

Wavelength: 630 - 690 nm at peak level

Power requirements

- Two Sony NH-10WM rechargeable batteries: 1.2 V DC \times 2
- Two LR6 (size AA) batteries: 1.5 V DC \times 2
- AC power adaptor (DC IN 4.5 V jack): 220 V, 50 Hz (Model for China)
120 V, 60 Hz (Model for Mexico)

Battery life*1 (approx. hours)

When you use the CD player on a flat and stable surface.

When LIGHT mode and SOUND mode are set to "OFF."

Playing time varies depending on how the CD player is used.

When using two NH-10WM (charged for about 5 hours*2)

	G-PROTECTION	
	"G-PRO 1"	"G-PRO 2"
Audio CD	25	23
ATRAC CD*3	44	44
MP3 CD*4	33	33

When using external battery case (two alkaline batteries*5)

	G-PROTECTION	
	"G-PRO 1"	"G-PRO 2"
Audio CD	55	50
ATRAC CD*3	86	86
MP3 CD*4	70	70

When using two NH-10WM and external battery case (two alkaline batteries*5)

	G-PROTECTION	
	"G-PRO 1"	"G-PRO 2"
Audio CD	80	73
ATRAC CD*3	130	130
MP3 CD*4	103	103

*1 Measured value by the standard of JEITA (Japan Electronics and Information Technology Industries Association)

*2 Charging time varies depending on how the rechargeable batteries are used.

*3 Recorded at 48 kbps

*4 Recorded at 128 kbps

*5 When using Sony alkaline batteries LR6 (SG) (produced in Japan)

Operating temperature

5°C - 35°C (41°F - 95°F)

Dimensions (w/h/d) (excluding projecting parts and controls)

Approx. 130 × 20.7 × 130 mm
(5 1/8 × 27/32 × 5 1/8 in.)

Mass (excluding accessories)

Approx. 178 g (6.3 oz.)

US and foreign patents licensed from Dolby Laboratories.

Design and specifications are subject to change without notice.

Optional accessories

AC power adaptor*	AC-E45HG
Active speaker system	SRS-Z1 SRS-Z30
Car battery cord	DCC-E345
Car battery cord with car connecting pack	DCC-E34CP
Car connecting pack	CPA-9C
Connecting cord	RK-G129 RK-G136
Earphones (except for the customers in France)	MDR-EX71SL MDR-Q55SL
Earphones (for the customers in France)	MDR-E808SP

* Specifications for AC power adaptors vary for each area. Check your local voltage and the shape of the plug before purchasing.

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

<http://www.sony.net/>

Sony Corporation Printed in Malaysia



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