

Portable CD Player

Operating Instructions

Owner's Record

The model number is located at the rear and the serial number is located inside the lid of the CD player. 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-NE1

Serial No. _____



Atrac3plus

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

D-NE1

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

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).

For the customers in the USA and Canada RECYCLING NICKEL METAL HYDRIDE BATTERIES

Nickel Metal Hydride batteries are recyclable.

You can help preserve our environment by returning your used rechargeable batteries to the collection and recycling location nearest you.



For more information regarding recycling of rechargeable batteries, call toll free 1-800-822-8837, or visit <http://www.rbrc.org/>.

Caution: Do not handle damaged or leaking Nickel Metal Hydride batteries.

For the customers in the USA

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

Product registration

For the customers in the USA

Please register this product on line at www.sony.com/walkmanreg
<<http://www.sony.com/walkmanreg>>

Proper registration will enable us to send you periodic mailings about software upgrades, new products, services and other important announcements. Thank you.

If you have any questions about this product, contact:
www.sony.com/walkmansupport

Sony Network Portable Audio Support Line
1-(866)-456-7669

Sony Customer Information Service Center
12451 Gateway Blvd., Ft. Myers, FL 33913

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Enjoy your ATRAC CD Walkman!

Thank you for purchasing the D-NE1. This CD Walkman is called an “ATRAC CD Walkman,” because you can enjoy “ATRAC CDs” on it.

Create original ATRAC CDs !

You can make your own ATRAC CD.

The procedure is very simple. Just perform Steps 1, 2 and 3.

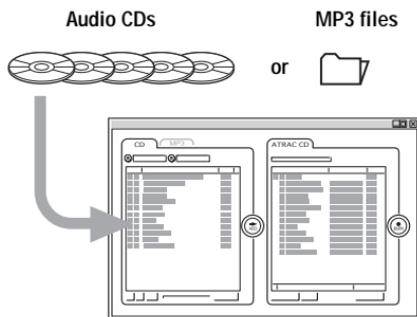
Step 1 Install

Install the supplied
“SonicStage Simple Burner”
software.



Step 2 Burn

Create a disc image and burn it on
a CD-R/RW using your PC.



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

How to use the SonicStage Simple Burner

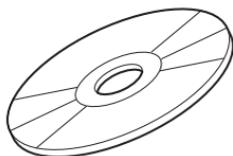
Refer to the supplied booklet “SonicStage Simple Burner.”

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 recorded at 48kbps (ATRAC3plus)

ATRAC CD



Step 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.

What is the ATRAC3plus/ATRAC3 format?

Refer to pages 6 - 8 of this manual.

Music sources playable on this CD player

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

- Audio CDs
- ATRAC3plus/ATRAC3 format files
- MP3 files

Usable disc formats

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

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, you can still enjoy high quality sound. The available transfer bit rates are 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 Simple Burner.”

Note on saving files on the media

Do not save files in other formats or unnecessary groups on a disc that has ATRAC3plus/ATRAC3 files.

MP3 files

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. Since the MP3 encoding algorithm is public, there are various encoders/decoders that are compliant with this standard, including freeware that is available for no charge. Thus, the MP3 standard is widely used in the computer field.

The major specifications of the acceptable disc format are:

- Maximum directory levels: 8
- Acceptable characters for a file/folder name:
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.
- The file name does not correspond to the ID3 tag*.
* ID3 tag is a format for adding certain information (track name, album name, artist name, etc.) to MP3 files.

The usable number of groups and files

- Maximum number of groups: 100
- Maximum number of files: 400

Settings for compression and writing software

- This CD player supports MP3 files with the following specifications: transfer bit rate: 16 - 320 kbps and sampling frequencies: 32/44.1/ 48 kHz. Variable Bit Rate (VBR) is also supported.
To compress a source for an MP3 file, we recommend setting the transfer bit rate of 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 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.

Difference between ATRAC3plus/ATRAC3 and MP3

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). This CD player is designed to recognize an MP3 file 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.

Displaying the track name, etc.

When playing a CD having ATRAC3plus/ATRAC3 files or MP3 files on this CD player, track names, artist names and album names are displayed. This CD player conforms to Version 1.1/2.2/2.3 of the ID3 tag format.

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.
- Playback capability may vary depending on the quality of the disc and the condition of the recording device.

Locating the controls

For details, see pages in parentheses.

CD player (front)

1 Jog lever (▶|| (play/pause) •
◀◀▶▶ (AMS/search))
(pages 13, 14, 20 - 22)

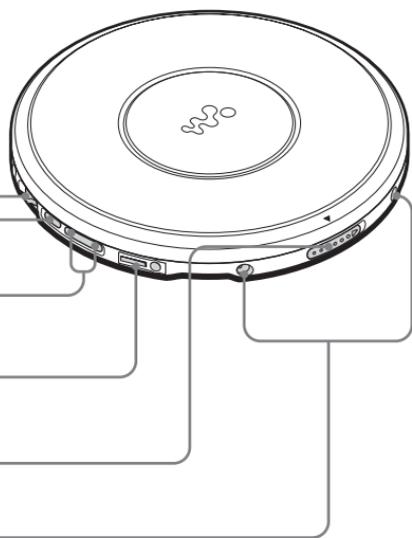
2 ■ (stop) /CHARGE button •
CHARGE lamp
(pages 14, 25, 26, 28, 29)

3 VOL (volume) +*/- buttons
(page 14)

4 🎧 (headphones) jack
(page 13)

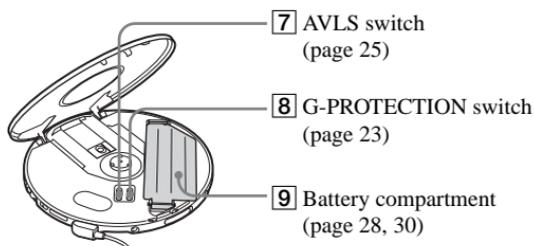
5 OPEN switch
(page 13)

6 Terminals for the charging stand
(pages 28, 34)



*The button has a tactile dot.

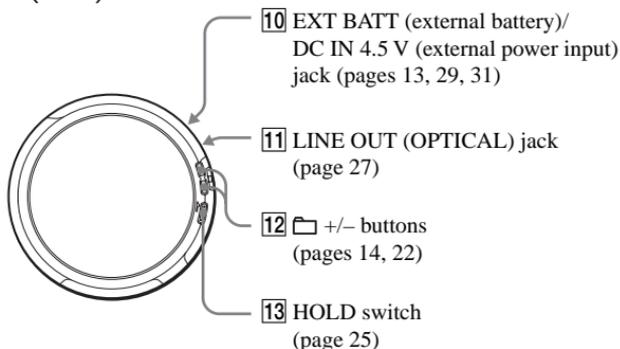
CD player (inside)



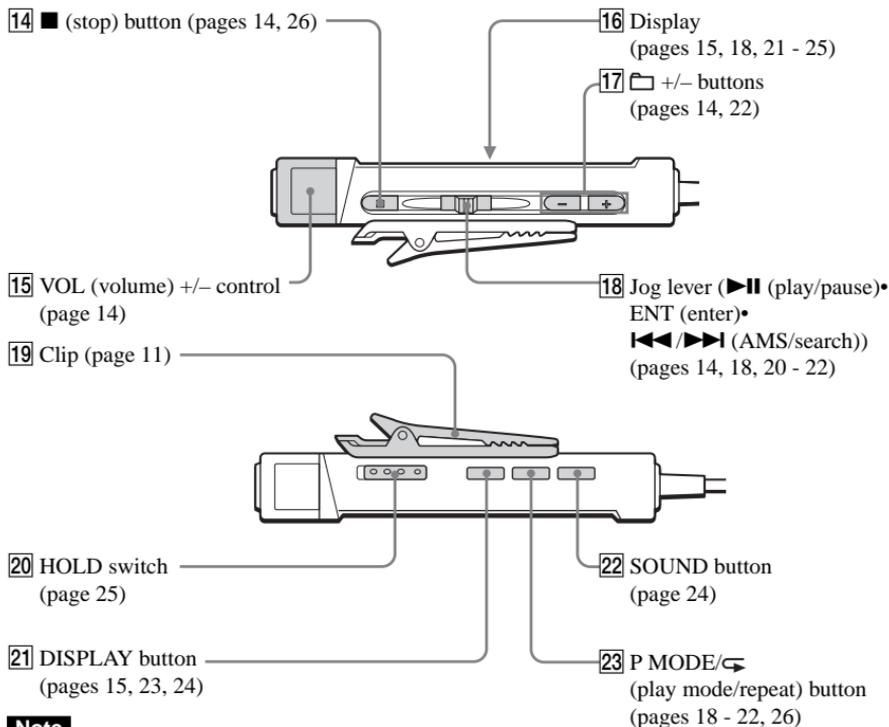
(Continued)

Locating the controls

CD player (rear)



Remote control



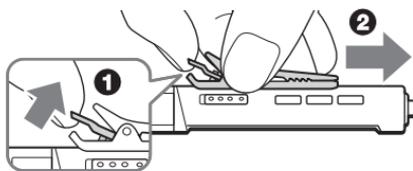
Note

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

To use the clip on the remote control

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

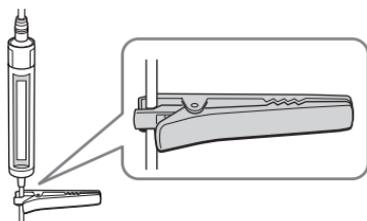
To remove



To attach in the reverse direction

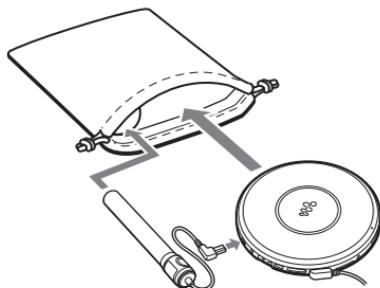


You can pass the cord of the remote control through its clip.



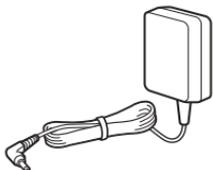
Using the carrying pouch

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 below.



Checking the supplied accessories

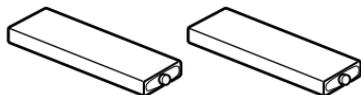
AC power adaptor (1)



Charging stand (1)



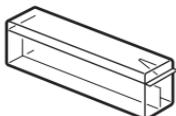
Rechargeable batteries (2)



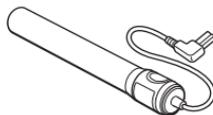
Carrying pouch (1)



Battery carrying case (1)



External battery case (1)



Headphones (1)



CD-ROM (SonicStage Simple Burner) (1)
User's guide for SonicStage Simple Burner
(1)

Remote control (1)



Playing an audio CD or ATRAC3plus/ATRAC3/MP3 files

1. Connect your CD player.

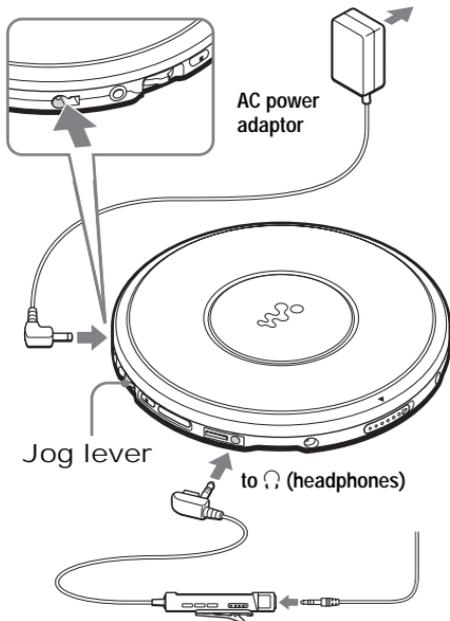
- 1 Connect the AC power adaptor.
- 2 Connect the headphones/earphones with remote control.

For models supplied with the remote control

- Connect the plug of the headphones/earphones to the remote control.
- Connect the headphones/earphones to the remote control firmly. A loose connection may cause noise during playback.

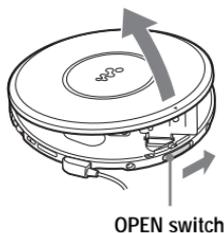
to EXT BATT/DC IN 4.5 V

to an AC outlet

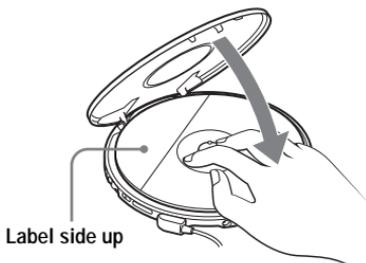


2. Insert a CD.

- 1 Slide OPEN to open the CD player lid.



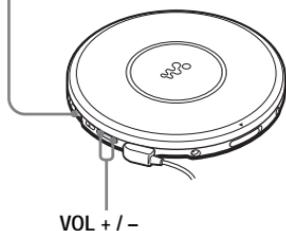
- 2 Place the CD on the tray and close the lid.



(Continued)

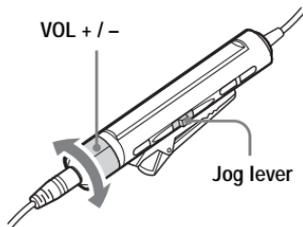
3. Play a CD.

Jog lever



- ❶ Press the jog lever.
- ❷ Adjust the volume by pressing VOL + or -.

VOL +/-



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

To	Do this
Play (from the point you stopped)	Press the jog lever. Playback starts from the point you stopped.
Play (from the first track)	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	Press the jog lever.
Stop	Press ■ (■ /CHARGE for the CD player). ^{*2}
Find the beginning of the current track (AMS ^{*1})	Flick the jog lever toward ⏮ once. ^{*2}
Find the beginning of the previous tracks (AMS)	Flick the jog lever toward ⏮ repeatedly. ^{*2, *3}
Find the beginning of the next track (AMS)	Flick the jog lever toward ⏭ once. ^{*2, *3}
Find the beginning of the succeeding tracks (AMS)	Flick the jog lever toward ⏭ repeatedly. ^{*2, *3}
Go backwards quickly	Hold the jog lever toward ⏮ . ^{*2}
Go forward quickly	Hold the jog lever toward ⏭ . ^{*2}
Jump to succeeding groups ^{*4}	Press ⏮ + repeatedly.
Jump to previous groups ^{*4}	Press ⏭ - repeatedly.

^{*1} Automatic Music Sensor

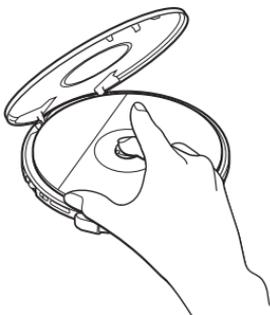
^{*2} These operations can be done during both play and pause.

^{*3} After you have played the last track, you can return to the beginning of the first track by flicking the jog lever toward **⏭**. Similarly, if you are at the first track, you can locate the last track by flicking the jog lever toward **⏮**.

^{*4} Only when you play an ATRAC CD or MP3 CD

Removing the CD

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



About CD-Rs/RWs

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

* CD-DA 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.

About the display on the remote control

While the CD player is playing, the following indications appear in the display.

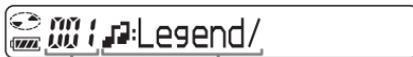
You can also check the remaining time, track name, etc. using DISPLAY (see pages 23 and 24.)

While playing an audio CD



Track number Playing time

While playing an audio CD containing CD text information



Track number Track name/Playing time

While playing an ATRAC3plus/ATRAC3/MP3 file



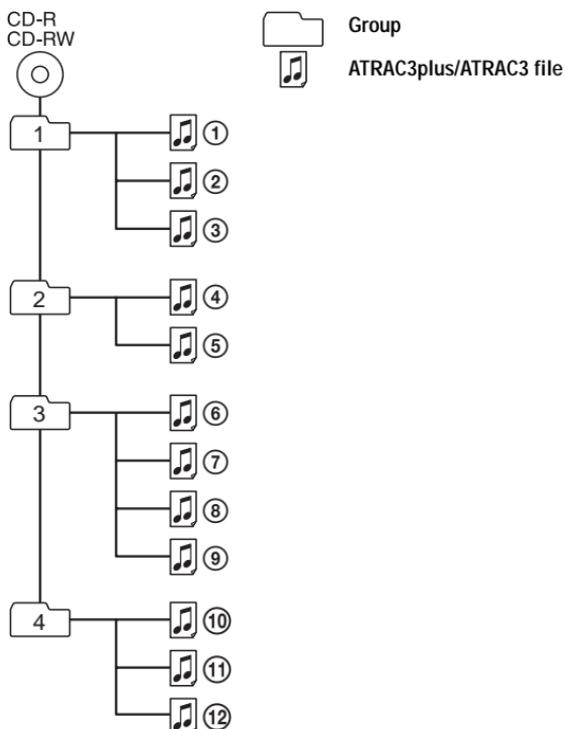
File number File name/Playing time

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 information on the CD. "READING" is displayed. Depending on the content of the CD, it may take some time to accomplish this reading.

(Continued)

Example of ATRAC3plus/ATRAC3 groups and files



File mode (normal play)

Plays all ATRAC3plus/ATRAC3 files from ①, ②, ③...⑪, ⑫.

Group mode (when selected "□" using P MODE/↵ (see page 18))

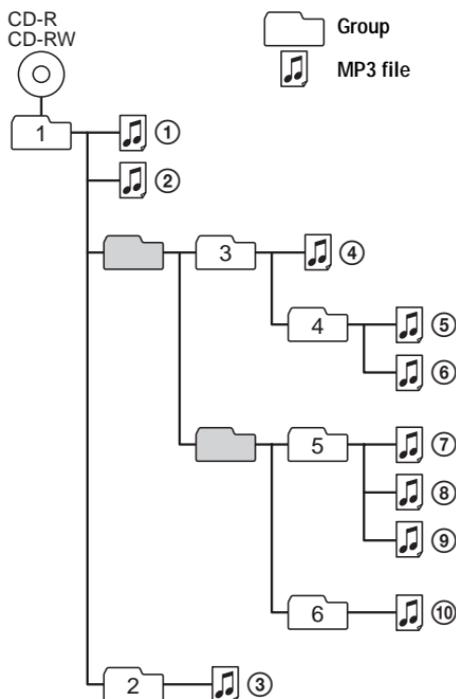
Plays all ATRAC3plus/ATRAC3 files in the selected group.

Notes

- Maximum number of groups: 255
Maximum number of files: 999
- When referring to ATRAC CDs, "group" is equivalent to an "album" and "file" is equivalent to a "track."

Example of group structure and playing order (MP3 CD)

The playing order of groups and files is as follows:



File mode (normal play)

Plays all MP3 files from ①, ②, ③...⑨, ⑩.

Group mode (when selected "□" using P MODE/▶ (see page 18))

Plays all MP3 files in the selected group.

(Example: If you select group 3, the CD player plays file ④. If you select group 4, the CD player plays file ⑤ and ⑥.)

Notes

- A group that does not include an MP3 file is skipped.
- Maximum number of groups: 100
Maximum number of files: 400
- Maximum directory levels: 8
- When referring to MP3 CDs, "group" is equivalent to an "album" and "file" is equivalent to a "track."

Playback options

You can enjoy various playback options using the P MODE/↶ (play mode/repeat) button and the jog lever.

Display



CD text information, ATRAC3plus/ATRAC3/MP3 file information, playing time, etc. are displayed.

- *1 ATRAC CD/MP3 CD only
- *2 Only when Bookmarks have been added to the tracks/files
- *3 MP3 CD only
- *4 Play lists (m3u) recorded in MP3 CD format only
- *5 Only when the programmed tracks are played back

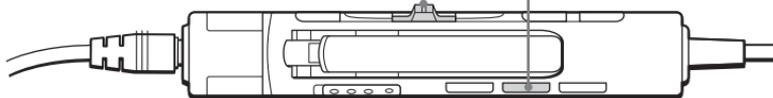
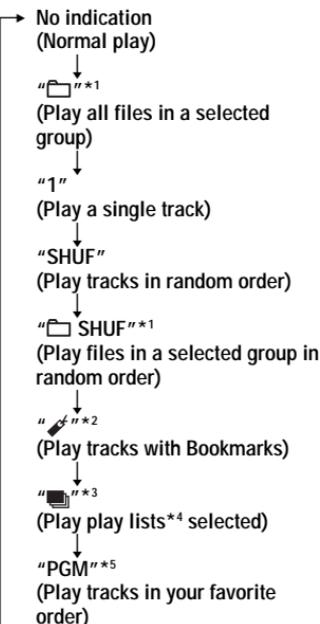
Jog lever

- **Press.**
You can add Bookmarks to the tracks.
You can also enter the selected tracks for PGM play.
- **Flick toward ►► or ◄◄.**
You can select tracks for PGM play mode.

P MODE/↶ button

If you press the button during playback, you can change the play mode.

During playback, if you press and hold the button until "↶" appears, you can play tracks repeatedly in the play mode that was selected using P MODE/↶.



Playing tracks in random order (Shuffle play)

During playback, press P MODE/↵ repeatedly until “SHUF” appears.

In shuffle mode, the CD player plays all files on all CDs in random order.

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

During playback, press P MODE/↵ repeatedly until “☐ SHUF” appears.

In group shuffle mode, the CD player plays all files in a selected group in random order.

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

While playing an audio CD

You can add Bookmarks to up to 99 tracks for each CD (up to 10 CDs).

While playing an ATRAC CD

You can add Bookmarks to up to 999 tracks for each CD (up to 5 CDs).

While playing an MP3 CD

You can add Bookmarks to up to 400 tracks for each CD (up to 10 CDs).

To add Bookmarks

- 1 During playback of the track to where you want to add a Bookmark, press and hold the jog lever until “ (Bookmark)” flashes in the display.
When the Bookmark has been added successfully, “” flashes slower.
- 2 Repeat step 1 to add Bookmarks to the tracks you want.

To listen to the tracks with Bookmarks

- 1 Press P MODE/ repeatedly until “” flashes.
- 2 Press the jog lever.
“” lights up in the display and the playback of the tracks with Bookmarks starts.

To remove the Bookmarks

During playback of the track with a Bookmark, press and hold the jog lever until “” disappears from the display.

To check the tracks with Bookmarks

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

Notes

- During playback 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), the Bookmarks of the CD you played back first will be erased.
- If you remove all power sources, all Bookmarks stored in memory will be erased.
- If you continue playing the CD player on the rechargeable batteries without charging the batteries even though “Lobatt” is displayed, all Bookmarks stored in memory will be erased.

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 playback, press **P MODE**/ repeatedly until “” appears.



Play list

- 2 Flick the jog lever toward **◀◀** or **▶▶** to select a play list you want.



- 3 Press the jog lever.



Note

You can only play the top two play lists displayed on your screen on this CD player.

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 stop, press DISPLAY. While the indications are displayed, press P MODE/↵ repeatedly until “PGM” appears.**

Audio CD



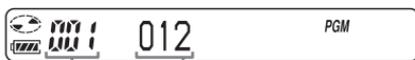
ATRAC CD/MP3 CD



- 2 Flick the jog lever toward ►► or ◀◀ to select a track.**

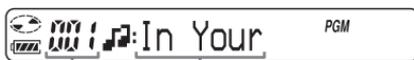
When playing an ATRAC CD/MP3 CD, you can also select a group using  + or -.

Audio CD



Playing order Track number

ATRAC CD/MP3 CD



Playing order File name

- 3 To enter the selected track, press and hold the jog lever until the playing order increases by one .**

Audio CD



ATRAC CD/MP3 CD



- 4 Repeat steps 2 and 3 to select the tracks in your favorite order.**

- 5 Press the jog lever to start the PGM play.**
-

To check the program

During programming:

Press the jog lever repeatedly before step 5.

During stop:

Press DISPLAY. While the indications are displayed, press P MODE/↵ repeatedly until “PGM” flashes, then press the jog lever repeatedly.

Each time you press the jog lever, the track number appears.

Notes

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

The G-PROTECTION function

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

When you set the G-PROTECTION switch on your CD player to “2”, the G-PROTECTION function will be enhanced compared to “1.”

To walk with the CD player and enjoy high quality CD sound using the G-PROTECTION function, set the G-PROTECTION switch to “1.” While taking harder exercise, it is recommended that you set it to “2.”

Note

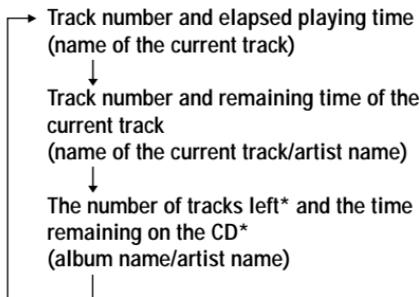
Sound may skip:

- 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.

Checking the time remaining on the CD and the number of tracks left (audio CD)

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

For an audio CD containing CD text information, information in parentheses also appears.



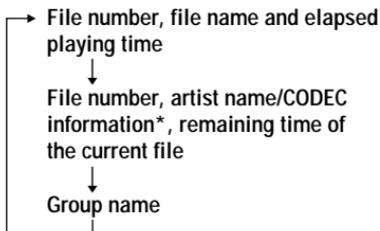
* Not displayed during Single play, Shuffle play or Bookmark track play.

Checking information on an ATRAC CD, MP3 CD

You can check information on an ATRAC CD/MP3 CD using DISPLAY.

You can also check ID3 tag information if the file has that information stored.

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



*Variable bit rate and sampling frequencies

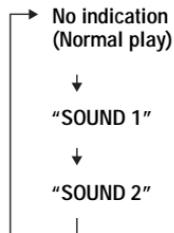
Notes

- 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.

Emphasizing the bass sound (SOUND)

You can emphasize the bass-boosted sound.

Press SOUND to select "SOUND 1" or "SOUND 2."



The selected sound mode is displayed.

"SOUND 2" enhances the bass sound more than "SOUND 1."

Note

If the sound is distorted when using the SOUND function, turn down the volume.

Protecting your hearing (AVLS)

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

Set AVLS (under the lid, on the main unit) to “LIMIT.”



AVLS

Appears when the volume is turned up and beyond a certain level.

To turn off the AVLS function

Set AVLS to “NORM.”

Locking the controls (HOLD)

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

Slide HOLD in the direction of the arrow.



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

You can use the HOLD function with both the CD player and 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 opposite direction 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 operation beep sound

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

1 Remove the power source (AC power adaptor, rechargeable batteries or dry batteries) from the CD player.

2 Connect the power source while pressing ■ (■/CHARGE for the CD player).

To turn on the beep sound

Remove the power source and then connect the power source without pressing ■ or ■/CHARGE.

Turning off the LCD's backlight

While you are using the rechargeable batteries or dry batteries, the LCD's backlight turns on for about 5 seconds every time you press a button. However, you can turn off the backlight to save the battery power.

1 Remove the rechargeable batteries and dry batteries from the CD player.

2 Insert the batteries while pressing P MODE/☞.

To turn on the LCD's backlight

Remove the batteries and then insert them without pressing P MODE/☞.

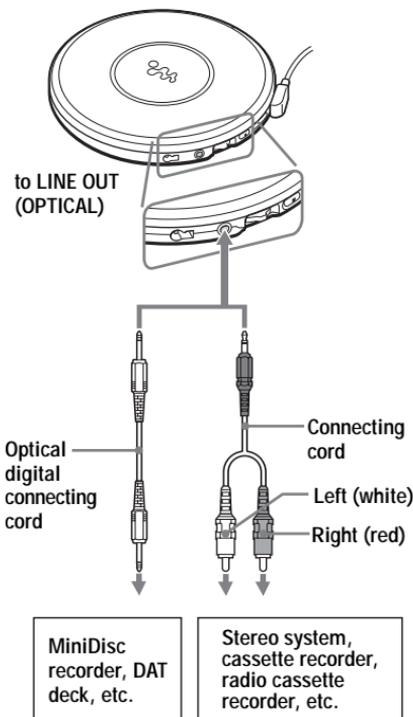
About the LCD's backlight

The LCD's backlight is always turned on when using the AC power adaptor.

Connecting a stereo system

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

Be sure to turn off all connected devices before making connections.



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.

When using the connecting cord

- You cannot adjust the volume of output from the \odot jack using VOL +/- on the CD player or the remote control.
- If the sound is distorted, connect the device to the \odot jack.

When using the optical digital connecting cord

To record a CD on a MiniDisc, DAT, etc., make sure that the CD player is in pause before operating the recording procedures.

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

- To record high quality CD sound, set the G-PROTECTION switch to "1."
- The SOUND function works only on the output sound from the \odot jack and not work on the output sound from the LINE OUT (OPTICAL) jack.

► Connecting to a power source

You can use the following power sources:

- Rechargeable batteries
- AC power adaptor (see “Playing an audio CD or ATRAC3plus/ATRAC3/MP3 files”)
- LR6 (size AA) alkaline batteries (external battery case)

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

Using the rechargeable batteries

Charge the rechargeable batteries before using it for the first time.

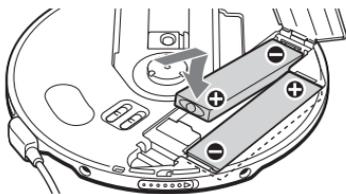
You can use only the following rechargeable batteries for your CD player.

- NH-14WM (A) (supplied)

1 Open the battery compartment lid inside your CD player.

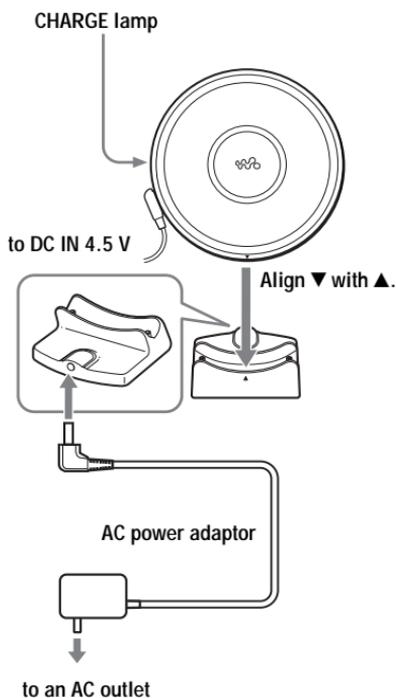


2 Insert two rechargeable batteries by matching the ⊕ to the diagram in the battery compartment and close the lid until it clicks into place.



Insert the ⊖ end first
(for both batteries).

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.

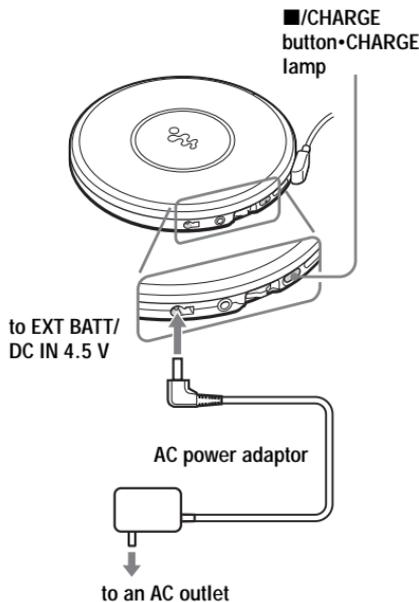


Charging of the batteries starts. In the display of the remote control, "Charging" indication flashes and the indicator sections of  light up in succession. The CHARGE lamp lights up on the CD player.

When the batteries are completely charged, all indications in the display disappear and the CHARGE lamp goes off.

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 press /CHARGE to start charging.



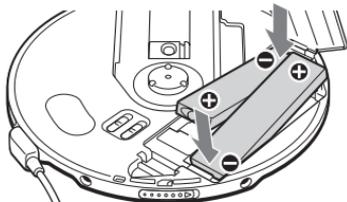
Notes

- 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 press the jog lever during charging, charging stops and playback of the CD starts.
- If you place the CD player on the charging stand during playback, playback 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 CHARGE lamp on the CD player lights up. Wrong placement interrupts charging or playback.

(Continued)

To remove the rechargeable batteries

Push ⊖ end to remove the batteries.



When to charge the rechargeable batteries

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

Replace the batteries when “” flashes.



Lobatt*

* Beep sounds.

To keep the original battery capacity for a long time, charge the batteries only when they are completely depleted.

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 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 CHARGE 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.

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-14WM (A) rechargeable battery only. Do not charge any other battery.
- 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.

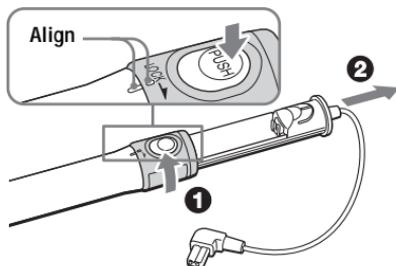
Using the dry batteries

Make sure to use the supplied external battery case.

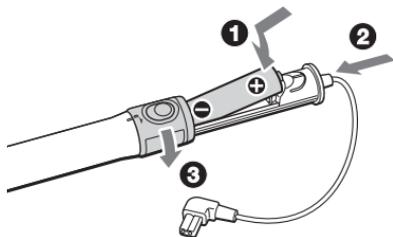
Use only the following dry battery type for your CD player:

- LR6 (size AA) alkaline batteries

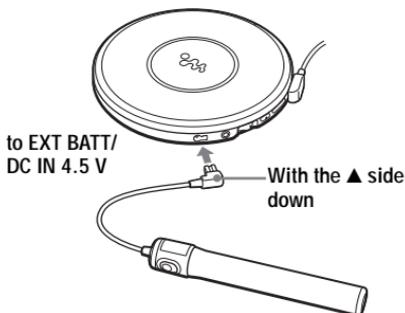
- 1** Align the lines below **PUSH** as illustrated, then draw out the battery case while pressing **PUSH**.



- 2** Insert two LR6 (size AA) alkaline batteries 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.



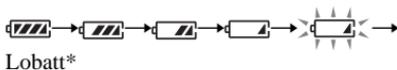
- 3** Connect the external battery case to the CD player.



When to replace the batteries

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

Replace the batteries when “” flashes.



* Beep sounds.

When the batteries are depleted, replace both batteries with new ones.

The batteries in the CD player and external battery case are discharged simultaneously.

Notes

- Be sure to remove the AC power adaptor when attaching the external battery case.
- When using the rechargeable batteries and dry batteries together to extend power, use a fully charged rechargeable batteries and new dry batteries.

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 battery 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.

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.

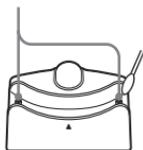
To clean the terminals

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.

Terminals



Terminals



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">→ Set the AVLS switch to "NORM." (page 25)→ The headphones/earphones are connected to the LINE OUT (OPTICAL) jack. Connect them to the  (headphones) jack. (page 13)
Cannot adjust the volume.	<ul style="list-style-type: none">→ The headphones/earphones are connected to the LINE OUT (OPTICAL) jack. Connect them to the  (headphones) jack. (page 13)
No sound, or noise is heard.	<ul style="list-style-type: none">→ Connect the headphones/earphones plugs firmly. (page 13)→ 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. (page 31)→ Replace the batteries with new LR6 (size AA) alkaline batteries. (page 31)
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. (pages 28 - 30)
"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. (page 28)→ Replace the batteries with new LR6 (size AA) alkaline batteries. (page 31)
"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." (pages 38, 39)

(Continued)

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 buttons are locked. Slide the HOLD switch back. (page 25) → The CD is dirty or defective. (page 33) → Check that the CD is inserted with the label side up. (page 13) → Moisture condensation has occurred. <ul style="list-style-type: none"> Leave the CD player aside for several hours until the moisture evaporates. → Close the lid of the battery compartment firmly. (page 28) → Make sure the batteries are inserted correctly. (pages 28, 31) → Connect the AC power adaptor to an AC outlet securely. (page 13) → Press the jog lever 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. → Files in two or more formats have been recorded on the same CD-R/RW. (page 7)
CHARGE 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 25)
Cannot adjust the volume with VOL +/- on the CD player.	<ul style="list-style-type: none"> → The CD player is connected to an audio device. Adjust the volume using the volume control on the connected device. (page 27)
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 27) → See the instruction manual that comes with the recording device. (page 27)
The rechargeable batteries cannot be charged.	<ul style="list-style-type: none"> → The terminals on the CD player or the charging stand are dirty. Wipe them with a dry soft cloth. → The CD is playing. Stop playing. → The external battery case is connected to the CD player. Remove it and start charging again. → 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 CHARGE lamp lights up. (page 28)
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 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 13, 28, 31)
Rustling noise is heard from the CD.	<ul style="list-style-type: none"> → Close the lid of the battery compartment firmly. (page 28)
When using with a connected stereo system, the sound is distorted or noisy.	<ul style="list-style-type: none"> → Adjust the volume of the connected device. (page 27)

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 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-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.
You cannot operate the CD player properly using the remote control.	→ The buttons on the CD player are kept pressed by mistake.
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, and you cannot locate the beginning of the track or the specific point in the track.	→ The CD player has entered the Bookmark track play. Press P MODE/  repeatedly until "  " disappears from the display.

Specifications

System

Compact disc digital audio system

Laser diode properties

Material: GaAlAs

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

Emission duration: Continuous

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

(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 CP-307)

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

Optical digital output (optical output connector)

Output level: -21 - -15 dBm

Wavelength: 630 - 690 nm at peak level

Power requirements

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

- Two Sony NH-14WM (A) 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): U, U2, CA, CA2, E92, MX2, TW2 and CA2/C models: 120 V, 60 Hz
CED, CED/4, CE7, CE7/C, EE, EE1, E, E13 and E13/2 models: 220 - 230 V, 50/60 Hz
CEK model: 230 V, 50 Hz
AU2 model: 240 V, 50 Hz
EU8, EU8/C, JE.W, E18, KR4 and EE8 models: 100 - 240 V, 50/60 Hz
HK4 model: 230 V, 50 Hz
CNA model: 220 V, 50 Hz

Battery life*1 (approx. hours)

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

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

When using two NH-14WM (A) (charged for about 5 hours*2)

	G-PROTECTION	
	"1"	"2"
Audio CD	35	32
ATRAC3plus file*3	55	55
MP3 file*4	50	50

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

	G-PROTECTION	
	"1"	"2"
Audio CD	55	50
ATRAC3plus file*3	95	95
MP3 file*4	85	85

When using two NH-14WM (A) and external battery case (two alkaline batteries*5)

	G-PROTECTION	
	"1"	"2"
Audio CD	90	82
ATRAC3plus file*3	150	150
MP3 file*4	135	135

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

*2 Charging time varies depending on how the rechargeable battery is used.

*3 Recorded at 48 kbps or 64 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. 135.4 × 135.4 × 15.8 mm
(5 ³/₈ × 5 ³/₈ × ⁵/₈ in.)

Mass (excluding accessories)

Approx. 179 g (6.4 oz.)

Design and specifications are subject to change without notice.

Optional accessories

AC power adaptor	AC-E45HG
Active speaker system	SRS-Z1
Car battery cord	DCC-E345
Car battery cord with car connecting pack	DCC-E34CP
Car connecting pack	CPA-9C
Earphones	MDR-E848SP MDR-EX71SL MDR-Q55SL

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

This warranty is valid only in the United States.

SONY[®]

Portable Memory Stick Audio Player/
Portable MiniDisc Recorder/
Portable CD Player

LIMITED WARRANTY

Portable Audio

Sony Electronics Inc. ("Sony") warrants this Product (including any accessories) against defects in material or workmanship as follows:

1. **LABOR:** For a period of 90 days from the date of purchase, if this Product is determined to be defective, Sony will repair or replace the Product, at its option, at no charge, or pay the labor charges to any Sony authorized service facility. After the Warranty Period, you must pay for all labor charges.

2. **PARTS:** In addition, Sony will supply, at no charge, new or rebuilt replacements in exchange for defective parts for a period of one (1) year. After 90 days from the date of purchase, labor for removal and installation is available from Sony authorized service facilities or a Sony Service Center at your expense.

To obtain warranty service, you must take the Product, or deliver the Product freight prepaid, in either its original packaging or packaging affording an equal degree of protection, to any authorized Sony service facility.

This warranty does not cover customer instruction, installation, set up adjustments or signal reception problems.

This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of, or to any part of the Product, including the antenna. This warranty does not cover damage due to improper operation or maintenance, connection to improper voltage supply, or attempted repair by anyone other than a facility authorized by Sony to service the Product. This warranty does not cover Products sold AS IS or WITH ALL FAULTS, or consumables (such as fuses or batteries). This warranty is valid only in the United States.

Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the Warranty period must be presented to obtain warranty service.

This warranty is invalid if the factory applied serial number has been altered or removed from the Product.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. SONY SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. In addition, if you enter into a service contract with the Sony Partnership within 90 days of the date of sale, the limitation on how long an implied warranty lasts does not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

For your convenience, Sony Electronics Inc. has established telephone numbers for frequently asked questions:

To locate the servicer or dealer nearest you, or for service assistance or resolution of a service problem, or for product information or operation, contact:

www.sony.com/walkmansupport

Sony Network Portable Audio Support Line
1-(866)-456-7669

Sony Customer Information Service Center
12451 Gateway Blvd.
Fort Myers, FL 33913

For an accessory or part not available from your authorized dealer, call:

1-(800)-488-SONY (7669)

D 324343302

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

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