3-257-666-61 (1)

SONY

Portable CD Player

Operating Instructions



"WALKMAN" is a registered trademark of Sony Corporation to represent Headphone Stereo products. Woulkman is a trademark of Sony Corporation.

D-NE509

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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).

ATRAC3plus and ATRAC3 are trademarks of Sony Corporation.

Owner's Record

The model number and serial number are located at the rear 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-NE509 Serial No.

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 Services Center 12451 Gateway Blvd., Ft. Myers, FL 33913

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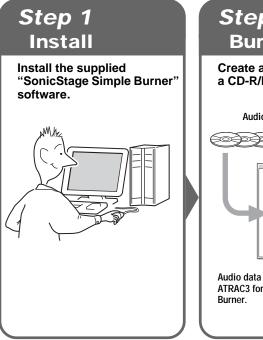
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Enjoy your ATRAC CD Walkman!

Thank you for purchasing the D-NE509. This CD Walkman is called an "ATRAC CD Walkman," because you can enjoy "ATRAC CDs" on it.

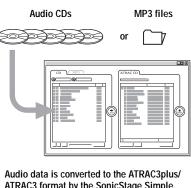
Create original ATRAC CDs!

You can make your own ATRAC CD. The procedure is very simple. Just perform Steps 1, 2 and 3.



Step 2 Burn

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



ATRAC3 format by the SonicStage Simple

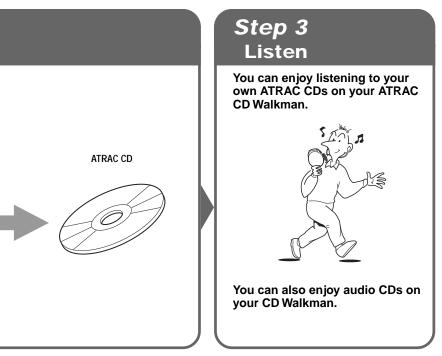
How to use the SonicStage Simple Burner

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 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 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.

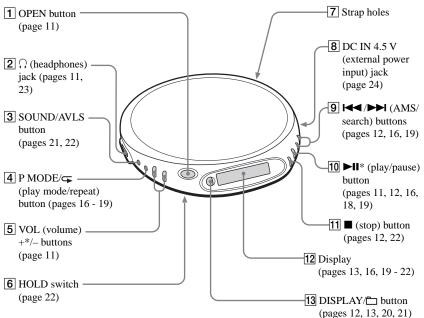
Notes

- 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

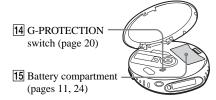
For details, see pages in parentheses.

CD player (front)



*The button has a tactile dot.

CD player (inside)



Checking the supplied accessories

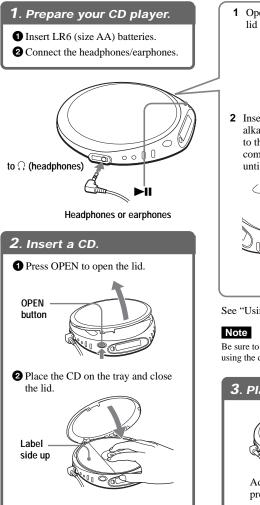
Headphones (1)



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

Playing an audio CD or ATRAC3plus/ATRAC3/MP3 files

You can also use house current (AC power adaptor, not supplied) as a power source.



1 Open the battery compartment lid inside your CD player.



2 Insert two LR6 (size AA) alkaline batteries by matching ⊕ to the diagram in the battery compartment and close the lid until it clicks into place.



Insert the \ominus end first (for both batteries).

See "Using the dry batteries."

Be sure to remove the AC power adaptor when using the dry batteries.



(Continued)

Basic operations

То	Do this
Play (from the point you stopped)	Press 📲.
	Playback starts from the point you stopped.
Play (from the first track)	While the CD player is stopped, press and
	hold \blacktriangleright II until the play of the first track starts.
Pause/resume play after pause	Press 📕.
Stop	Press .*2
Find the beginning of the current track (AMS*1)	Press I once quickly.*2
Find the beginning of previous tracks (AMS)	Press I repeatedly.* ^{2, *3}
Find the beginning of the next track (AMS)	Press >> once quickly.*2, *3
Find the beginning of succeeding tracks (AMS)	Press P repeatedly.* ² , * ³
Go backwards quickly	Hold down 🔼 *2
Go forward quickly	Hold down ►►I.*2
Jump to succeeding groups*4	Press and hold DISPLAY/ Duntil a group
	number appears, then press \blacktriangleright repeatedly.
Jump to previous groups*4	Press and hold DISPLAY/ Duntil a group
	number appears, then press \bowtie 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 pressing ►► . Similarly, if you are at the first track, you can locate the last track by pressing I<<.
- *4 Only when you play an ATRAC/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.

Playing an audio CD or ATRAC3plus/ATRAC3/MP3 files

About the display

While the CD player is playing, the following indications appear on the display. You can also check the remaining time, track name, etc. using DISPLAY/ (c) (see pages 20 and 21).

While playing an audio CD





While playing an audio CD containing CD text information

Track number Track name/Playing time

While playing an ATRAC3plus/ ATRAC3/MP3 file

If you press and hold DISPLAY/, a group number will appear on the display. After a short time it will disappear automatically and the display will return to the normal one.



File number

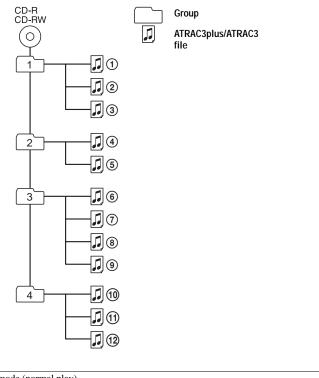
r File name/Playing time

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.
- If you try to play a CD-R/RW which has not been finalized, "SESSION" and a session number appear on the display. After a short time, "READING" will appear on the display automatically.

(Continued)

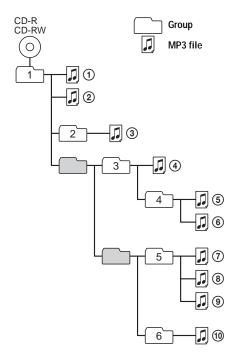
Example of ATRAC3plus/ATRAC3 groups and files (ATRAC CD)



File mode (normal play)	
Plays all ATRAC3plus/ATRAC3 files from ①, ②, ③①, ⑫.	
Group mode (when selected """ using P MODE/ (see page 16))	
Plays all ATRAC3plus/ATRAC3 files in the selected group.	

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	
Group mode (when selected """ using P MODE/ (see page 16))	
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 files (5) and (6).)	

Note

A group that does not include an MP3 file is skipped.

Playback options

You can enjoy various playback options using P MODE/ \hookrightarrow (play mode/repeat), \bowtie and \bowtie .

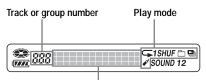
P MODE/ 🤿 button

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/.

- No indication (Normal play) "^C7"*1 (Play all files in a selected group) "1" (Play a single track) "SHUF" (Play tracks in random order) " SHUF" *1 (Play files in a selected group in random order) " of "*2 (Play tracks with Bookmarks) "**C**h"*3 (Play play lists*4 selected)
- *1 ATRAC/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 format only

Display



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

I≪</▶►Ibuttons and ►II button

• Press >>> or |<<. You can select a play list you want.

• Press ►II. You can add Bookmarks and also start bookmark track play and play list play.



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 a CD in random order.

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

During playback, press P MODE/⊊ repeatedly until "□ SHUF" appears.

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 files for each CD (up to 5 CDs).

While playing an MP3 CD

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

To add Bookmarks

1 During playback of the track to which you want to add a Bookmark, press and hold ►II until "# (Bookmark)" flashes in the display.

When the Bookmark has been added successfully, "of" flashes slower.

2 Repeat step 1 to add Bookmarks to the tracks you want.

To listen to tracks with Bookmarks

- 2 Press ►II.

"of" lights up in the display and the playback of the tracks with the Bookmarks starts.

To remove Bookmarks

During playback of a track with a Bookmark, press and hold \blacktriangleright II until " ϕ " disappears from the display.

To check tracks with Bookmarks

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

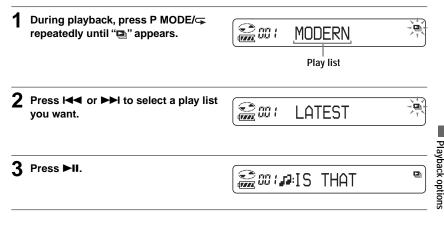
Notes

- 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 tracks on an 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.

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.



Note

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

* Sorted by file name

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.

→ Track number and elapsed playing time (name of the current track)

Track number and remaining time of the current track (name of the current track/artist name)

The number of tracks left* and the time remaining on the CD* (album name/artist name)

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

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Checking information on a CD with ATRAC3plus/ATRAC3/ MP3 files

You can check information on a CD with ATRAC3plus/ATRAC3/MP3 files 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:

→ File name^{*1} and elapsed playing time ↓ Artist name^{*2}, CODEC information^{*3} and remaining time of the current file ↓ Group name^{*4}

Emphasizing the bass sound (SOUND)

You can emphasize the bass-boosted sound.

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



SOUND 2

Available features

"SOUND 2" enhances the bass sound more

The selected sound mode is displayed.

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

Note

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

- *1 If the file has ID3 tag information, a title appears.
- *2 If the file does not have ID3 tag information, "- - - -" appears.
- *3 Bit rate and sampling frequencies appear.
- *4 If the file has ID3 tag information, an album name appears.

Protecting your hearing (AVLS)

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

Press and hold SOUND/AVLS until "AVLS ON" appears on the display.



Flashes when the volume is turned up beyond a certain level.

To turn off the AVLS function

Press and hold SOUND/AVLS until "AVLS OFF" appears on the display.

Note

If you use the SOUND function and the AVLS function at the same time, sound may be distorted. If this happens, turn down the volume.

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.

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

To unlock the controls

Slide HOLD in the opposite direction of the arrow.

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.

- Remove the power source (AC power adaptor, dry batteries) from the CD player.
- 2 Connect the power source while pressing for about one second or more.

To turn on the beep sound

Remove the power source and then connect the power source without pressing \blacksquare .

Connecting a stereo system

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

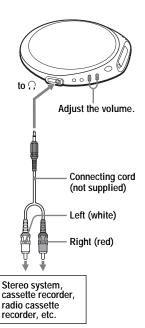
Be sure to turn off all connected devices before making connections.

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 dry batteries as a power source, batteries may become completely depleted during recording.
- Adjust the volume properly on the CD player and on the connected device so that the sound will not be distorted or noisy.

About the G-PROTECTION function when using the connecting cord

To record high quality CD sound, set G-PROTECTION to "1."



Connecting to a power source

You can use the following power sources:

- LR6 (size AA) alkaline batteries
- · AC power adaptor

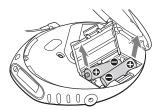
For the battery life, see "Specifications."

Using the dry batteries

For inserting procedure, see "Playing an audio CD or ATRAC3plus/ATRAC3/MP3 files."

To remove the batteries

Remove the batteries as illustrated below.



When to replace the batteries

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

Replace the batteries when "

Lo batt*

Lo batt*

* Beep sounds.

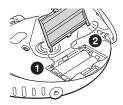
When the batteries are depleted, replace both batteries with new ones.

Notes

- The indicator sections of (TTC) roughly shows the remaining battery power. One section does not always indicate one-fourth of the battery power.
- Depending on operating conditions, the indicator sections of **we** may increase or decrease.

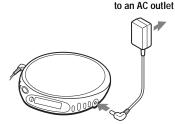
To attach the battery compartment lid

If the battery compartment lid is detached by an accidental drop, excessive force, etc., attach it as illustrated below.



Using the AC power adaptor

Connect the AC power adaptor (not supplied) to the DC IN 4.5 V jack and an AC outlet.



to DC IN 4.5 V

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

\$ **1**

- 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 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 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, unleveled 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.



Not these ways

 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.

Troubleshooting

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

Symptom	Cause and/or corrective actions
The volume does not increase even if you press the VOL + button repeatedly.	➔ If "AVLS" flashes in the display, press and hold SOUND/AVLS until "AVLS OFF" appears on the display. (page 22)
No sound, or noise is heard.	 Connect the plugs firmly. (pages 11, 24) Plugs are dirty. Clean the plugs with a dry soft cloth periodically.
Certain files cannot be played.	➔ 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.	 → Check that you are using alkaline batteries and not manganese batteries. (page 11) → Replace the batteries with new LR6 (size AA) alkaline batteries. (page 11)
"Lo batt" appears on the display. The CD does not play.	 Replace the batteries with new LR6 (size AA) alkaline batteries. (page 11)
"HI dc In" appears on the display.	An AC power adaptor which is rated highter than the one supplied or recommended is being used. Use only the AC power adaptor supplied or recommended, or the car battery cord supplied or recommended. (page 30)
The CD does not play or "No disc" appears on the display when a CD is placed in the CD player.	 → The buttons are locked. Slide the HOLD switch back. (page 22) → The CD is dirty or defective. → Check that the CD is inserted with the label side up. (page 11) → 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 11) → Make sure the batteries are inserted correctly. (page 11) → Connect the AC power adaptor to an AC outlet securely. (page 24) → Press ▶II 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. (pages 6, 7)
"HOLD" flashes in the display when you press a button, and the CD does not play.	 → The buttons are locked. Slide the HOLD switch back. (page 22)

(Continued)

Troubleshooting

Symptom	Cause and/or corrective actions	
Playback starts from the point you stopped. (resume function)	→	The resume function is working. To start play from the first track, press ►II 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 11, 12, 24)
Rustling noise is heard from the CD.	→	Close the lid of the battery compartment firmly. (page 11)
When using with a connected stereo system, the sound is distorted or noisy.	→	Adjust the volume of the CD player and the connected device. (page 23)
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 on the display after ►II is pressed or the lid of the CD player is closed.		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.
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.
" of " 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 "

Specifications

System

Compact disc digital audio system

Laser diode properties

 $\begin{array}{l} \mbox{Material: GaAlAs} \\ \mbox{Wavelength: $\lambda = 780 nm$} \\ \mbox{Emission duration: Continuous} \\ \mbox{Laser output: Less than 44.6 μW} \\ \mbox{(This output is the value measured at a distance} \\ \mbox{of 200 nm from the objective lens surface on} \\ \mbox{the optical pick-up block with 7 nm aperture.)} \end{array}$

D-A conversion

1-bit quartz time-axis control

Frequency response

20 - 20 000 Hz $^{+1}_{-2}$ dB (measured by JEITA CP-307)

Output (at 4.5 V input level)

Headphones (stereo minijack) Approx.5 mW + Approx. 5 mW at 16 Ω

Power requirements

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

- Two LR6 (size AA) batteries: 1.5 V DC × 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, JEB, 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 Sony alkaline batteries LR6 (SG) (produced in Japan)

	G-PROTECTION function		
	"1"	"2"	
Audio CD	48	45	
ATRAC3plus files*2	77	77	
MP3 files*3	72	72	

- *1 Measured value by the standard of JEITA (Japan Electronics and Information Technology Industries Association)
- *2 When recorded at 48 kbps or 64 kbps
- *3 When recorded at 128 kbps

Operating temperature

5°C - 35°C (41°F - 95°F)

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

Approx. $136 \times 26 \times 150$ mm (5 $\frac{3}{8} \times 1$ $\frac{1}{16} \times 6$ in.)

Mass (excluding accessories)

Approx. 220 g (7.8 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			
Car battery cord	DCC-E345			
Car battery cord with car connecting pack				
	DCC-E34CP			
Car connecting pack	CPA-9C			
Earphones	MDR-E931LP			
	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.

SONY®

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

Portable Audio

LIMITED WARRANTY

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

 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 PROHIB-ITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICU-LAR 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)

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http://www.sony.net/

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