

Portable MiniDisc Player

Operating instructions
Mode d'emploi (au dos)



MZ-E35
Sony Corporation ©1998 Printed in Japan

WARNING

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

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

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

Listening for many hours at maximum volume may damage your hearing.

Information
IN NO EVENT SHALL SELLER BE LIABLE FOR ANY DIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE, OR LOSSES OR EXPENSES RESULTING FROM ANY DEFECTIVE PRODUCT OR THE USE OF ANY PRODUCT.



"MD WALKMAN" is a trademark of Sony Corporation.

Welcome!

Welcome to the world of the MiniDisc! Here are some of the capabilities and features you'll discover with the new MiniDisc Player.

- Small body almost the size of a MiniDisc jacket - Ideal weight and size; fits in your shirt pocket.
- Low power-consumption design enables long playback with a single "chewing-gum type" rechargeable battery.
- Shuttle dial remote control with LCD - Keep the main unit in your pocket and operate the MiniDisc player through the shuttle dial on the remote control; The LCD displays track information, playback mode as well as battery condition.

Playing an MD right away!

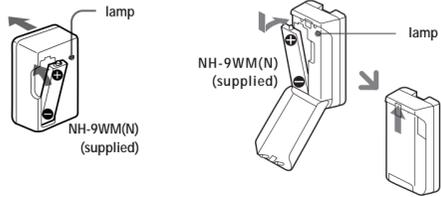
Before using the supplied rechargeable battery for the first time, charge it. Other choices are dry batteries and house current (see "Power sources"). The player automatically switches to play the stereo or monaural sound according to the recorded sound.

1 Charge the rechargeable battery.

Install the supplied rechargeable battery NH-9WM(N) to the supplied battery charger with correct polarity, and connect to a wall outlet.

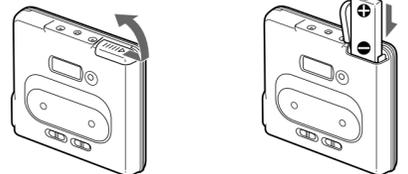
The charger lamp goes off when the chargings has finished.

- European model (Full charging takes 60 minutes.)
- Other countries model (Full charging takes 120 minutes.)

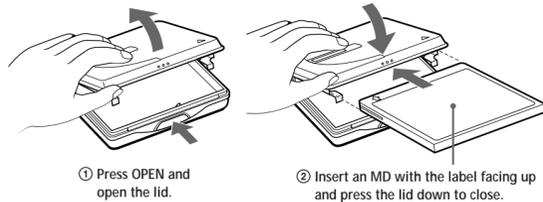


2 Insert the rechargeable battery.

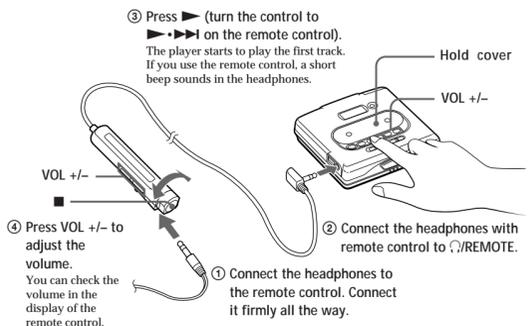
- Slide open the battery compartment lid like the arrow in the illustration.
- Insert the battery with correct polarity.



3 Insert an MD.



4 Play an MD.



To stop play, press ■. If you use the remote control, a short beep sounds in the headphones.

To	Press (Beeps in the headphones)
Pause	⏸ on the remote control (Continuous short beeps) Press ⏸ again to resume play.
Find the beginning of the current track	⏮ or turn the control to ⏮ on the remote control once (Three short beeps)
Find the beginning of the next track	⏭ or turn the control to ⏭ on the remote control once (Two short beeps)
Go backwards while playing ¹⁾	keep pressing ⏮ or keep the control turned to ⏮ on the remote control
Go forward while playing ¹⁾	keep pressing ⏭ or keep the control turned to ⏭ on the remote control
Remove the MD	■ and then OPEN and open the lid. ²⁾

If the play does not start
Make sure the player is not locked. See "To lock the controls."

For models supplied with the AC plug adaptor
If the battery charger does not fit the wall outlet, use the AC plug adaptor.

Display window while playing back

- Display window on the remote control



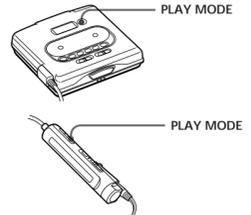
Note
Do not press OPEN during playback. If you do, the lid opens and playback will stop.

When using optional headphones
Use the headphones that have stereo-miniplug. You cannot use other types of headphones (microplug).

Various ways of playback

Playing tracks repeatedly

You can play tracks repeatedly in three ways - all repeat, single repeat, and shuffle repeat.



Press PLAY MODE while the player is playing an MD. Each time you press PLAY MODE, the play mode indication changes as follows.



(none) (normal play)
All the tracks are played once.

⏮ (all repeat)
All the tracks are played repeatedly.

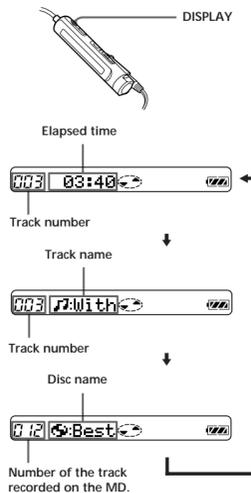
1 (single repeat)
A single track is played repeatedly.

SHUF (shuffle repeat)
All the tracks are played repeatedly in random order.

Tips on playback

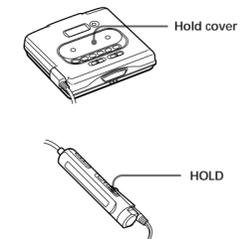
To know the track name and time

Press DISPLAY on the remote control while the player is playing an MD. Each time you press DISPLAY, the display changes as follows.



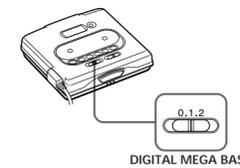
Note
Disc and track names appear only with MDs that have been electronically labeled.

To lock the controls
To prevent the buttons from being accidentally operated when you carry the player, use this function.



Slide the Hold cover on the player to cover the control buttons. On the remote control, slide HOLD in the direction of the → to lock the controls.

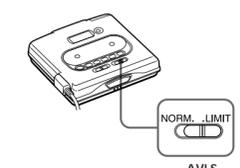
To emphasize bass (DIGITAL MEGA BASS)
The DIGITAL MEGA BASS function intensifies low frequency sound for richer quality audio reproduction.



Slide DIGITAL MEGA BASS. Choose 1 (slight effect) or 2 (strong effect). To cancel the effect, set DIGITAL MEGA BASS to 0.

Note
If the sound becomes distorted when emphasizing bass, turn down the volume.

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



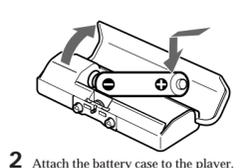
Set AVLS to LIMIT. The volume is kept at a moderate level, even if you try to turn the volume above the limited level.

Power sources

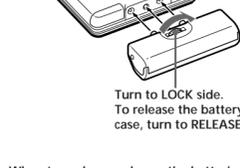
You can use the player on a dry battery, house current, or a Ni-MH rechargeable battery.

Using on a dry battery

- Insert one size AA (LR6) alkaline battery (not supplied) into the supplied battery case, and close the lid.



Attach the battery case to the player.



Turn to LOCK side. To release the battery case, turn to RELEASE.

- When to replace or charge the batteries
You can check the battery condition with the battery indication displayed while using the player.
- Used batteries
 - Weak batteries. Replace all the batteries
 - The batteries have gone out. "LoBATT" flashes in the display of the remote control, and the power goes off.

Battery life*

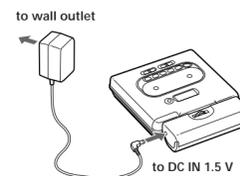
Batteries	Playback
Ni-MH rechargeable battery (NH-9WM (N))	Approx. 4.5 hours
One LR6 (size AA) alkaline battery	Approx. 6 hours
One size AA (LR6) alkaline battery and a Ni-MH rechargeable battery (NH-9WM(N))	Approx. 11 hours

* The battery life may be shorter due to operating conditions and the temperature of the location.

Using on house current

Before using the player, remove the rechargeable battery if it is installed.

- Attach the supplied battery case to the player.
- Connect the AC-E15L AC power adaptor (not supplied) to the DC IN 1.5V jack of the player.
- Connect the AC power adaptor to a wall outlet.



Note
The battery indication ■ is displayed while using the AC power adaptor.

Additional information

Precautions

- On safety
 - Do not put any foreign objects in the DC IN 1.5 V jack.
- On power sources
 - For use in your house: Use the AC power adaptor AC-E15L (not supplied). Do not use any other AC power adaptor since it may cause the player to malfunction.



- The player is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the player itself has been turned off.
- If you are not going to use this player for a long time, be sure to disconnect the power supply (AC power adaptor, dry batteries, rechargeable batteries, or car battery cord). To remove the AC power adaptor from the wall outlet, grasp the adaptor plug itself; never pull the cord.

On charging

- Be sure to use the supplied battery charger.
- Charging time may vary depending on the battery condition.
- When you use the battery for the first time or after a long period of disuse, the battery life may be shorter. In this case, charge and discharge the battery several times. The battery life will be restored.
- If the rechargeable battery capacity becomes half the normal life, replace it with a new one.

On heat build-up

- Heat may build up in the player if it is used for an extended period of time. In this case, leave the player to cool down.

On installation

- Never use the player where it will be subjected to extremes of light, temperature, moisture or vibration.
- Never wrap the player in anything when it is being used with the AC power adaptor. Heat build-up in the player may cause malfunction or injury.

On the headphones

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

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

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

On the MiniDisc cartridge

- Do not break open the shutter.
- Do not place the cartridge where it will be subject to light, temperature, moisture or dust.

On cleaning

- Clean the player casing with a soft cloth slightly moistened with water or a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzene as it may mar the finish of the casing.
- Wipe the disc cartridge with a dry cloth to remove dirt.
- AVLS is on.
- Dust on the lens may prevent the unit from operating properly. Be sure to close the disc compartment lid after inserting or ejecting an MD.

Notes on the batteries

Incorrect battery usage may lead to leakage of battery fluid or bursting batteries. To prevent such accidents, observe the following precautions:

- Install the + and - poles of the batteries correctly.
- Do not try to recharge the batteries.
- When the player is not to be used for a long time, be sure to remove the batteries.
- If a battery leak should develop, carefully and thoroughly wipe away battery fluid from the battery compartment before inserting new ones.

Note on mechanical noise

The player gives out mechanical noise while operating, which is caused by the power-saving system of the player and it is not a trouble.

If you have any questions or problems concerning your player, please consult your nearest Sony dealer.

Troubleshooting

Should any problem persist after you have made these checks, consult your nearest Sony dealer.

The player does not work or works poorly.

- You tried to play with no disc in the player ("No DISC" flashes).
 - ➔ Insert an MD.
- The remote control is locked.
 - ➔ Slide HOLD against the arrow to unlock the remote control.
- Moisture has condensed inside the player.
 - ➔ Take the MD out and leave the player in a warm place for several hours until the moisture evaporates.
- The rechargeable battery or dry battery is weak ("LoBATT" flashes).
 - ➔ Replace the dry battery or recharge the battery.
- The rechargeable battery or dry battery have been installed incorrectly.
 - ➔ Install the battery correctly.
- An MD with no recording on it is inserted ("BLANK" flashes).
 - ➔ Insert a recorded MD.
- The player cannot read the disc (it's scratched or dirty) ("Err" on the player or "ERROR" on the remote control flashes).
 - ➔ Reinsert or replace the disc.
- While operating, the player received a mechanical shock, too much static, abnormal power voltage caused by lightning, etc.
 - ➔ Restart the operation as follows.
 - 1 Disconnect all the power sources.
 - 2 Leave the player for about 30 seconds.
 - 3 Connect the power source.

The MD is not played normally.

- The player is set to the repeat mode ("⏮" is displayed).
 - ➔ Press PLAY MODE repeatedly until "⏮" disappears, then start playing.

An MD is not played from the first track.

- Disc playing stopped before it came to the last track.
 - ➔ Press ⏮ repeatedly or eject and reinsert the MD once to go back to the beginning of the disc, and restart playing after checking the track number in the display.

Optional accessories

- AC-E15L AC power adaptor¹⁾
- Nickel metal hydride rechargeable battery NH-9WM
- MDR-series Stereo headphones²⁾
- SRS-A41 Sony Active Speakers
- CK-MD4 MiniDisc Carrying Case
- CK-MD10 MiniDisc Filling Box

Sound has a lot of static.
• Strong magnetism from a television or such device is interfering with operation.
➔ Move the player away from the source of strong magnetism.

Charging the rechargeable battery does not start. (in case of the charger with a lid)

- The lid of the battery charger is not closed properly.
 - ➔ Close the lid and slide the switch on it.

No sound comes through the headphones.

- The headphones plug is not firmly connected.
 - ➔ Connect the headphones plug firmly to the remote control. Then connect the remote control plug firmly to the REMOTE jack.
- Volume is too low.
 - ➔ Adjust the volume by pressing VOL +/-.
- AVLS is on.
 - ➔ Slide AVLS to NORM.

Specifications

System
Audio playing system
MiniDisc digital audio system
Laser diode properties
Material: GaAlAs
Wavelength: λ = 790 nm
Emission duration: continuous
Laser output: less than 44.6 μW*
* 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.

Revolutions
400 rpm to 900 rpm (CLV)
Error correction
Advanced Cross Interleave Reed Solomon Code (ACIRC)
Sampling frequency
44.1 kHz
Coding
Adaptive Transform Acoustic Coding (ATRAC)
Modulation system
EFM (Eight to Fourteen Modulation)
Number of channels
2 stereo channels
1 monaural channel
Frequency response
20 to 20,000 Hz ± 3 dB
Wow and Flutter
Below measurable limit
Outputs
Headphones: stereo mini-jack, maximum output level 5 mW + 5 mW, load impedance 16 ohm

General

Power requirements
Nickel metal hydride rechargeable battery NH-9WM (supplied)
One LR6 (size AA) battery (not supplied)
Sony AC Power Adaptor AC-E15L¹⁾ (not supplied) connected at the DC IN 1.5 V jack
Battery operation time
See "When to replace or charge the batteries"
Dimensions
Approx. 82.5 × 19.1 × 80 mm (w/h/d)
(3 1/4 × 25/32 × 3 1/4 in.) not including projecting parts and controls
Mass
Approx. 115 g (4.1 oz.) the player only
Approx. 155 g (5.5 oz.) incl. a premastered MD and a nickel metal hydride rechargeable battery NH-9WM
Supplied accessories
Battery Charger (1)
Rechargeable battery (1)
Rechargeable battery carrying case (1)
Headphones with a remote control (1)
Dry battery case (1)
Carrying pouch (1)
Ear pad (2)

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1) The operative voltage for the AC power adaptor varies depending upon the country in which it is sold. Therefore, purchase the AC power adaptor in the country you intend to use it.

2) Whether you should plug the headphones directly to REMOTE on the main unit or to a remote control, use only headphones with stereo mini plugs.



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

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