

Portable MiniDisc Player

Operating instructions
Mode d'emploi (au dos)

MZ-E60
MZ-E62



Sony Corporation © 2000 Printed in Malaysia

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.

For customers in the United States Owner's Record

The model number is located at the bottom and the near the display and the serial number is located on the floor of the disc compartment of the unit. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. MZ-E60
Serial No. _____

Information

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.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

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.
- **Simple "Pop-Up Eject" function for easy MiniDisc handling**
A single press of a switch on the side of the player causes the player lid to open and the MiniDisc to eject.
- **Shock-resistant memory offsets up to 40 seconds of optical read errors.**
- **Easy-to-operate headphones remote control with LCD**
Keep the main unit in your pocket and operate the MiniDisc player through the "slim stick" remote control. The LCD displays disc and track information, playback mode as well as battery condition.
- **Low power-consumption design enables extended battery life.**
- **The player operates on a single LR6 (size AA) dry battery.**

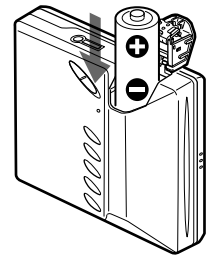
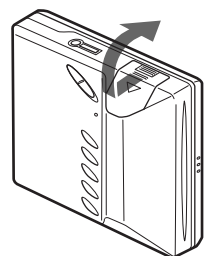
Playing an MD right away!

Stereo or monaural playback is automatically selected, depending on the sound source.

1 Insert the dry battery.

Use one LR6 (size AA) dry battery (not supplied) to power the player. For longer playback, an alkaline battery is recommended.

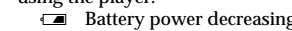
- Slide and open the battery compartment as shown in the illustration.
- Insert the battery.



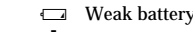
Make sure the + and - terminals are correctly oriented.

When to replace the battery

You can check the battery condition with the battery indication which is displayed while using the player.



Battery power decreasing



Weak battery

The battery has gone out. "LOW BATT" flashes in the display on the remote control, and the power goes off.

Battery life

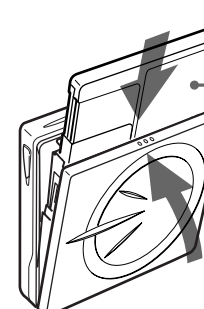
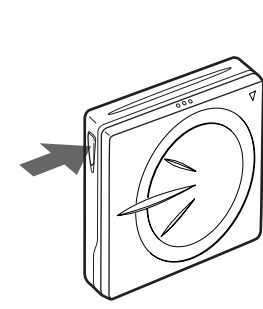
Approximately 12 hours of playback can be expected with one LR6 (size AA) alkaline battery (not supplied).

Note

The battery life may shorter depending on operating conditions and temperature of the location.

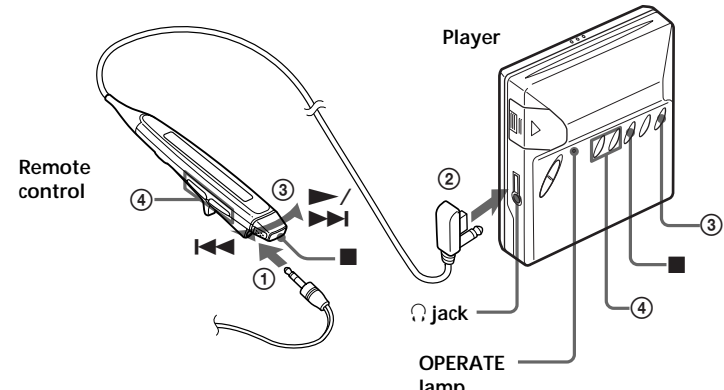
2 Insert an MD.

- Press OPEN.
- Insert an MD and press the lid to close.



With label facing front, insert disc in direction of the arrow.

3 Play an MD.



- Connect the headphones to the remote control. Plug it in firmly all the way.
- Connect the headphones with the remote control to the ⏏ jack.
- Press ►►► or ◀◀◀ (or press the control towards ►/►►► or ◀◀◀ on the remote control).
The OPERATE lamp on the player lights up and the player starts to play the first track. When using the remote control, a short beep sounds in the headphones.
- Press VOL +/- to adjust the volume.
The volume indicator appears on the remote control to allow you to check the volume.

To stop play, press ■.

The OPERATE lamp on the player goes off. The display on the remote control disappears after a while. When using the remote control, a long beep sounds in the headphones.

Other disc operation

To	Do this (Beeps in the headphones)
Pause	Press ■ on the remote control. (Continuous short beeps) Press ■ on the remote control again to resume play.*1
Find the beginning of the current track	Press ◀◀ once. Press the control towards ◀◀ on the remote control. (Three short beeps)
Find the beginning of the previous tracks	Press ◀◀ repeatedly. Press the control towards ◀◀ on the remote control repeatedly. (Continuous three short beeps)
Find the beginning of the next track	Press ►►► once. Press the control towards ►►► on the remote control. (Two short beeps)
Go backwards while playing*1	Hold down ◀◀. Press and hold the control towards ◀◀ on the remote control.
Go forward while playing*1	Hold down ►►►. Press and hold the control towards ►►► on the remote control.
Remove the MD	Press ■, and then press OPEN.*2

If playback does not start
Make sure the player is not locked. For details, see "To lock the controls (HOLD)".

Display window while playing back

For details, see "To know the track name and time".

Track name*3 or elapsed time of the track being played



Track number

Track number

Tips

- The OPERATE lamp on the player lights up during playback. When you press ■, the lamp goes off.
- The display on the remote control disappears after a while after you have pressed ■.

Note

Do not press OPEN during playback. If you do, the lid opens and playback stops.

When using optional headphones

Use headphones with a stereo-miniplug. You cannot use headphones with a microplug.

*1 When you press ◀◀ or ►►► on the player during pause (■), the player resumes playback.

If you hold down ◀◀ or ►►► on the player (or press and hold the control towards ◀◀ or ►►► on the remote control) during pause (■), you can fast forward/rewind without listening to the playback sound.

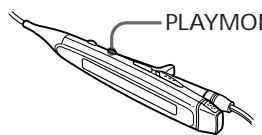
*2 Once you open the lid, the point to start playback will change to the beginning of the first track.

*3 Appears only with MDs that have been electronically labeled.

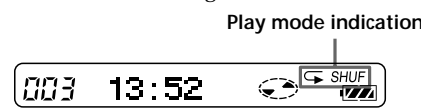
► Various ways of playback

Playing tracks repeatedly

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



Press PLAYMODE while the player is playing an MD. Each time you press PLAYMODE, 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.

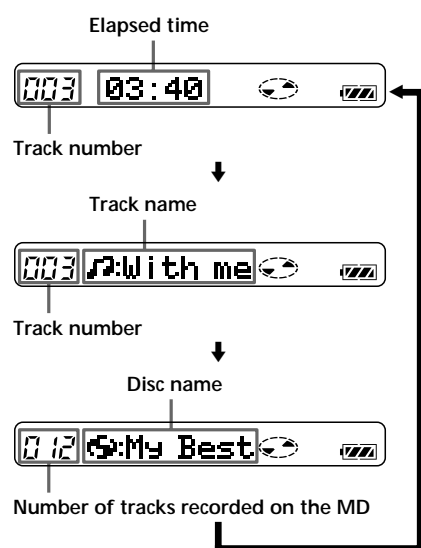
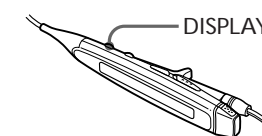
◀ SHUF (shuffle repeat)

All the tracks are played repeatedly in random order.

Tips on playback

To know the track name and time

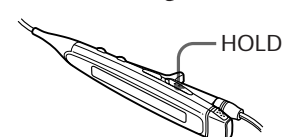
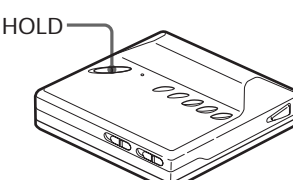
Press DISPLAY on the remote control while the player is playing an MD. Each time you press DISPLAY, the display changes as follows.



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

► To lock the controls (HOLD)

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

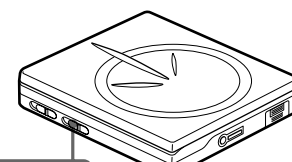


Slide HOLD on the player in the direction of the ► to lock the controls of the unit. Slide HOLD on the remote control in the direction of the ► to lock the controls of the remote control.

To emphasize bass

(DIGITAL MEGABASS)

The DIGITAL MEGABASS function intensifies low frequency sound for richer quality audio reproduction.



DIGITAL MEGABASS

0 1 2

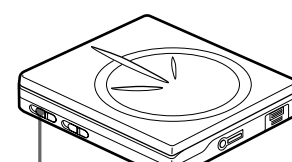
Set DIGITAL MEGABASS to 1 (weak) or 2 (strong). To cancel the effect, set DIGITAL MEGABASS to 0.

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.



AVLS

NORM. LIMIT

0 1 2

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

► Additional information

Precautions

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.

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 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.
- 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.

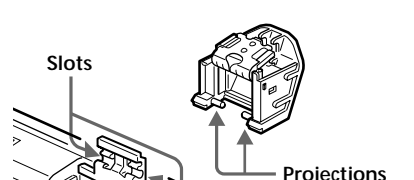
On dry battery

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

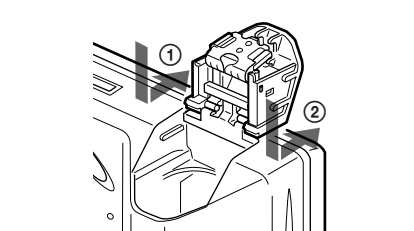
- Install the battery with the + and - poles aligned correctly.
- When the player is not to be used for a long time, be sure to remove the battery.
- If a battery leak should develop, carefully and thoroughly wipe away battery fluid from the battery compartment before inserting new ones.
- Do not carry the dry battery in your pocket or a bag, etc., with metallic objects such as key rings. The terminals of the battery may heat up from a short-circuit and can be dangerous.

On the lid of the battery compartment

The lid of the battery compartment is designed to detach from the main unit when handled with great force. To reattach the lid to the main unit, follow the steps below:



① Place the lid so that the projections on the lid aligned with the slits on the main unit.



② Fit the projection one by one into the slot as shown in the illustration.

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 on the remote control).
 - Insert an MD.
- The hold function is activated and the controls are locked. (If you press any of the operation buttons on the player, "HOLD" flashes on the remote control.)
 - Slide HOLD against the direction of the arrow to release the hold function.
- Moisture has condensed inside the player.
 - Take the MD out and leave the player's lid open for several hours until the moisture evaporates.
- The dry battery is weak ("LOW BATT" flashes on the remote control).
 - Replace the dry battery.
- The dry battery has been installed incorrectly.
 - Install the battery with correct polarity.
- An MD with no recording on it is inserted ("BLANKDISC" flashes on the remote control).
 - Insert a recorded MD.
- The player cannot read the disc (it's scratched or dirty) ("DISC ERR" flashes on the remote control).
 - Reinsert or replace the disc.
- While operating, the player received a mechanical shock, too much static, abnormal power voltage caused by lightning etc.
 - Restart as follows.
 - 1 Remove the battery from the battery compartment.
 - 2 Leave the player for about 30 seconds.
 - 3 Insert the battery into the battery compartment

The MD is not played normally.

- The player is set to the repeat mode ("◀" is displayed on the remote control).
 - Press PLAYMODE 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.

The DIGITAL MEGABASS does not function.

- The DIGITAL MEGABASS switch is set to 0.
 - Set the switch to 1 or 2.

Playback sound skips.

- The player is placed where it receives continuous vibration.
 - Put the player on a stable place.
- A very short track may cause sound to skip.

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.

No sound comes through the headphones.

- The headphones plug is not firmly connected.
 - Connect the headphones plug firmly to the remote control.
- Connect the headphones plug firmly to the ⏏ 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: $\lambda = 790 \text{ nm}$
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.
Revolutions
800 rpm to 1,800 rpm
Error correction
Advanced Cross Interleave Reed Solomon Code (ACIRC)
Sampling frequency
44.1 kHz
Coding
Adaptive TTransform 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 $\pm 3 \text{ dB}$
Wow and Flutter
Below measurable limit
Outputs
Headphones: stereo mini-jack, maximum output level 5 mW + 5 mW, load impedance 16 ohms

General

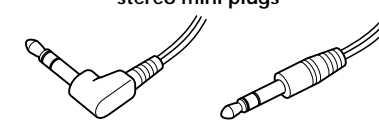
Power requirements
One LR6 (size AA) battery (not supplied)
Battery operation time
See "When to replace the battery"
Dimensions
Approx. 81 × 25 × 74 mm (w/h/d)
(3 1/2 × 1 × 3 in.) not including projecting parts and controls
Mass
Approx. 95 g (3.4 oz.) the player only
Approx. 136 g (4.8 oz.) incl. a premastered MD and a LR6 (size AA) alkaline battery.
Supplied accessories
Headphones with a remote control (1)
Carrying pouch (1)

Optional accessories

MDR-series Stereo headphones*
SRS-series Sony Active Speakers

* Whether you should plug the headphones directly to the ⏏ jack on the main unit or to a remote control, use only headphones with stereo mini plugs.

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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