SONY

3-247-809-12(2)

Portable MiniDisc Player

Operating Instructions

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

MZ-E10

Printed on 100% recycled paper using VOC (Volatile Organic Compound)-free vegetable oil based ink.

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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, table- cloths, 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.

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

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

CAUTION — INVISIBLE LASER RADIATION WHEN OPEN

DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS

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.

For customers who purchased this product in the USA

Owner's Record
The model number is located at the top and the serial number is located at the rear of the disc compartment lid. 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-E10
Serial No. _____

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

Proper registration will enable us to send you periodic mailings about new products, services and other important announcements. Registering your product will also allow us to contact you in the unlikely event that the product needs adjustment or modification.
Thank you.

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.

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

RECYCLING LITHIUM-ION BATTERIES
Lithium-ion batteries are recyclable.
You can help preserve our environment by returning your used rechargeable batteries to the collection and recycling location nearest you.

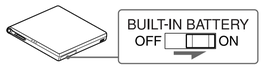
For more information regarding recycling of rechargeable batteries, call toll free 1-800-822-8837, or visit http://www.rbrc.org/

Caution: Do not handle damaged or leaking the built-in lithium ion batteries.

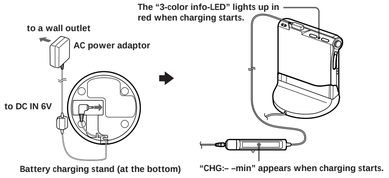
On this manual
These operating instructions are written mainly for models outside of Japan. In the case of the model for use in Japan, the display indications may differ slightly, but operations are identical.

Getting started

The player has a built-in lithium ion rechargeable battery.
Before using the player for the first time, slide the BUILT-IN BATTERY switch on the side of the player to ON as shown below. Leave the switch in the ON position thereafter.



1 Charge the rechargeable battery.



When the player is placed on the battery-charging stand, the "3-color info-LED" lights up in red and charging starts. The remaining charging time appears in the display on the remote control.
- "3-color info-LED" color transitions: Red → Orange → Green → LED off
- Display on the remote control: "CHG:– – min" → "CHG:65min" (65 minutes to end of charging) → "CHG:64min" → ..... → No display

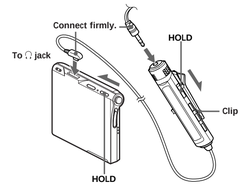
The "3-color info-LED" and display on the remote control turn off after about one hour. At this point, the battery is about 80% charged. After two and half more hours, the battery will be fully charged.

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

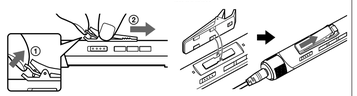
Notes
- It may take up to one minute for the LED or display indication to go on, depending on the battery condition (i.e., whether the built-in rechargeable battery is drained or not, etc.).
- Charge the battery at a temperature of 0°C (+32°F) to +40°C (+104°F). The charging time may vary, depending on the surrounding temperature.

Playback and other operations can be done on the player and the remote control while the player is charging.

2 Make connections and unlock the controls.

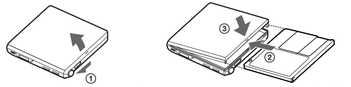


Using the clip for the remote control
The clip can be removed and reattached in the opposite direction.



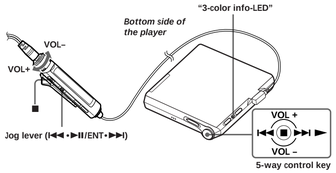
Playing an MD

1 Insert an MD.



Insert an MD with the label side facing up, pushing the MD to the direction of the arrow in the illustration.

2 Play an MD.



① **Press the jog lever (▶II) on the remote control. (Press towards ▶▶I ► on the player.)**
A short beep sounds in the headphones/earphones. The LED lights up.
② **Turn the volume control towards VOL + or – on the remote control to adjust the volume. (Press towards VOL + or – on the player.)**
The volume indicator appears in the display, allowing you to check the volume level.

To stop play, press ■.
A long beep sounds in the headphones/earphones.
Playback starts from the point you last stopped playing. To start playback from the beginning of the disc, press and hold the jog lever (▶II) for 2 seconds or more on the remote control (Press and hold towards ▶▶I ► for 2 seconds or more on the player).

To	Do this (Beeps in the headphones/earphones)
Pause	Press the jog lever (▶II) on the remote control (continuous short beeps). Press the jog lever (▶II) again to resume play.
Cue to the current track or the previous track	Slide the jog lever towards I◀◀ on the remote control (three short beeps). (Press towards I◀◀ on the player.)
Cue to the next track	Slide the jog lever towards ▶▶I on the remote control (two short beeps). (Press towards ▶▶I on the player.)
Go backwards or forward while playing	Slide and hold the jog lever towards I◀◀ or ▶▶I on the remote control. (Press and hold towards I◀◀ or ▶▶I on the player.)
Searching for a specific position while viewing a elapsed time (Time search)	While the player is paused, slide and hold the jog lever towards I◀◀ or ▶▶I on the remote control.
Searching for a specific track while viewing track numbers (Index search)	While the player is stopped, slide and hold the jog lever towards I◀◀ or ▶▶I on the remote control.
Cue to the beginning of every 10th track (only during playback of the disc with no group settings[1])	Press ⊏ + or – button.
Remove the MD	Press ■, and then slide OPEN[2].

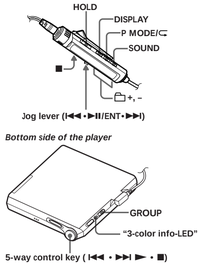
[1] For more details, see "Using the group function."
[2] Once you open the lid, the point to start play will change to the beginning of the first track (except when the disc information has been stored in the personal disc memory).

About the "3-color info-LED"
The LED indicates the current operating mode, charging status, and battery condition. For details about the charging status, see "Getting started." For details about the battery condition, see "When to recharge the built-in battery" on the back page.

LED color	Operating status
Red	Playing a disc with no group settings
Green	Playing a disc with group settings
Orange	Cueing to another group (Group Skip)

►*Various ways of playback*

Remote control

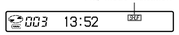


Selecting the play mode

You can select from the various play modes using the P MODE/⊏ button on the remote control.

1 Press P MODE/⊏ repeatedly.
Each time you press the button, the play mode changes as follows:

Play mode indication



Display*	Play mode
(none) (normal play)	All the tracks are played once.
1 (single-track play)	A single track is played once.
(Bookmark play)	Bookmarked tracks play back in order of their track number.
SHUF (shuffle play)	All the tracks are played in random order.
PGM (program play)	The tracks are played in the order that you specified.

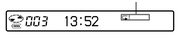
* Group play mode (⊏) appears whenever you play a disc with group settings. For more details, see "Using the group function."

Playing a track repeatedly (Repeat Play)

You can use the repeat function for normal play, single-track play, shuffle play, and program play mode.

1 During playback in the selected play mode, press and hold P MODE/⊏ for 2 seconds or more.
"⊏" appears in the display.

Repeat play indication



To cancel repeat play
Press and hold P MODE/⊏ for 2 seconds or more.

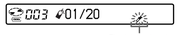
By pressing the P MODE/⊏ button during repeat play, you can change the play mode to be used with repeat play.

Listening to selected tracks only (Bookmark play)

You can bookmark tracks on a disc and play them only. The sequence of bookmarked tracks cannot be changed.

To bookmark the tracks

1 While playing the track you want to bookmark, press and hold the jog lever for 2 seconds or more.



Flashing slowly

The first track for bookmark play is set.

2 Repeat step 1 to bookmark other tracks. You can bookmark with up to 20 tracks.

To play the bookmarked tracks

1 During playback, press P MODE/⊏ repeatedly until "TrPLAY?" appears in the display.

2 Press the jog lever.
The bookmarked tracks start playing, starting with the smallest track number.

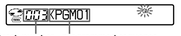
To erase a bookmark
While playing the track for which you want to erase the bookmark, press and hold the jog lever for 2 seconds or more.

Note
If you open the lid, all bookmarks are canceled.

Listening to tracks in a desired sequence (Program Play)

1 During playback, press P MODE/⊏ repeatedly until "PGM" appears in the display.

2 Slide the jog lever repeatedly to select a track, and then press the jog lever to enter that track.



track number programmed sequence

3 Repeat step 2 to program more tracks. You can program up to 20 tracks.

4 After programming the tracks, press and hold the jog lever for 2 seconds or more.
The program is stored and playback starts from the first track.

The program play settings will remain in memory even after playback finishes or is stopped.

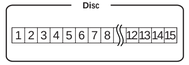
Note
All program settings are lost when the lid is opened.

Using the group function

The group function is provided to allow playback of discs with group settings. The group function is convenient for playback of MDs on which several albums or CD singles have been recorded in MDLP (LP2/LP4) mode.

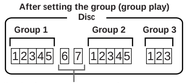
What is a disc with group settings?
The player can play back tracks in units of groups; that is tracks that have been recorded on a disc as part of separate groups, as shown below.
The "3-color info-LED" lights up in green when a disc with group settings is being played.

Before group settings are made (normal play)



Track 1 to 5 are assigned to group 1.
Track 8 to 12 are assigned to group 2.
Track 13 to 15 are assigned to group 3.
Track 6 and 7 are not assigned to a group.

After setting the group (group play)



Tracks that were not assigned to a group are treated as being part of "Group - -."

Note
The player does not support the recording of group settings. Use an MD recorder to assign tracks to groups. For details, see "Registering groups using an MD recorder."

Playing a track in group play

In group play, all groups are played in order, starting with group 1, followed by the unassigned tracks ("Group - -"). Playback stops after all the tracks have been played.

1 During playback, press P MODE/⊏ repeatedly until "⊏" appears in the display.

Cueing to the start of a group (Group Skip)

On the remote control

1 During playback, press ⊏ + or –.
Pressing the ⊏ – button cues to the first track in the current group. Pressing the button again cues to the first track of the previous group. During group skip, the "3-color info-LED" on the player flashes in orange.

On the player

1 During playback, press GROUP.
The "3-color info-LED" lights up in orange.

2 Press I◀◀ or ▶▶I.

Selecting the play mode for group play (Group Play Mode)

The shuffle play and program play function can be used during group play mode.

1 Press P MODE/⊏ repeatedly.
After normal playback, the following play modes are displayed:

Display	Play mode
⊏ (Normal Group Play)	All tracks in the groups play back once (starting with the first track in group 1).
SHUF (In-Group Shuffle)	Shuffle play starts with the group that is currently playing, and continues with the succeeding groups.
PGM (Group Program)	The groups are played in the order that you specified.

Repeat play for the selected group play mode (Group Repeat Play)

1 During playback in the selected group play mode, press and hold P MODE/⊏ for 2 seconds or more.
Playback repeats in the respective group play mode.

Display	Play mode
⊏	Repeat play of tracks within a group
SHUF ⊏	Repeat shuffle play of tracks within a group
PGM ⊏	Repeat play for group program

Playing groups in a desired sequence (Group Program Play)

Do the procedure explained in "Listening to tracks in a desired sequence (Program Play)" to play back groups in a desired sequence. You can program up to 10 groups. The sequence of tracks within the groups cannot be changed.

Registering groups using an MD recorder

An MD recorder with the group function
Refer to the operating instructions of the MD recorder.

An MD recorder that does not support the group function
The procedure below allows you to assign tracks to a group using the disc name-editing function.

Specifying groups

1 Change the disc name to the following by using the MD recorder:

0;[Disc name] // [First track of group 1]-
Ⓐ Ⓑ
[Last track of group 1] ; [Name of group 1] //
Ⓑ Ⓒ
[First track of group 2] - [Last track of group 2] :
Ⓑ Ⓑ
[Name of group 2] // .....
Ⓒ

Ⓐ Disc name
Ⓑ Track number
Ⓒ Group name
/ / Separator between groups
– Hyphen placed between the first track and the last track
; Separator between track number and group name

(Ex.) Set the following groups for the disc named "Collections ":
Group name for tracks 1-7:
My Favorites"2002winter"
Group name for tracks 8-17:
Jun&Tac"sunshine head"
Group name for tracks 18-24:
THE NIGHT BUTTERFLYS
Group name for tracks 25-32:
Dream World/Kiss Me!

Text string entered
0;Collections/ /
1–7;My Favorites"2002winter" / /
8–17;Jun&Tac"sunshine head" / /
18–24;THE NIGHT BUTTERFLYS / /
25–32;Dream World/Kiss Me! / /

- The characters ";", " / ", and "–" can be used in a group name.
- You can register the same group name more than twice on the same MD.
- You can specify a group without entering a group name (Ⓒ) for it.

Notes
- Up to 99 groups can be registered on a single MD. The actual number, however, will be less than 99 if you have entered more characters than are allowed per disc.
- Depending on the specifications of your MD recorder, the group function may not work properly.

Adjusting the sound (Virtual-Surround • 6-Band Equalizer)

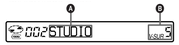
You can vary the virtual sound to create different acoustics, or modify the sound to suit your taste and store it for later use.
The following two effects can be selected.
V-SUR (Virtual-Surround VPT Acoustic Engine)
Provides 4 kinds of virtual-surround conditions.
6-BAND EQUALIZER
Provides 6 different sound qualities.

Varying the virtual sound to create different acoustics (Virtual-Surround)

1 During playback, press SOUND repeatedly to select "V-SUR."

2 Press and hold SOUND for 2 seconds or more.

3 Slide the jog lever repeatedly to select the surround mode.



Each time you slide the jog lever, Ⓐ and Ⓑ change as follows:

Ⓐ	Ⓑ
STUDIO	V-SUR S
LIVE	V-SUR L
CLUB	V-SUR C
ARENA	V-SUR A

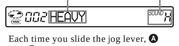
4 Press the jog lever to enter the selected surround mode.

Selecting the sound quality (6-Band Equalizer)

1 During playback, press SOUND repeatedly to select "SOUND."

2 Press and hold SOUND for 2 seconds or more.

3 Slide the jog lever repeatedly to select the SOUND mode.



Each time you slide the jog lever, Ⓐ and Ⓑ change as follows:

Ⓐ	Ⓑ
HEAVY	SOUND H
POPS	SOUND P
JAZZ	SOUND J
UNIQUE	SOUND U
CUSTOM1	SOUND 1
CUSTOM2	SOUND 2

4 Press the jog lever to enter the selected SOUND mode.

To cancel the procedure
Press and hold the DISPLAY button or the ■ button for 2 seconds.

To cancel the setting
Slide the jog lever repeatedly in step 1 above until the indication at Ⓐ disappears.

To modify and storing the sound
You can customize the sound settings in "CUSTOM1" and "CUSTOM2."

1 Do steps 1 to 3 above, and then slide the jog lever until "CUSTOM1" or "CUSTOM2" appears.

2 Press the jog lever.

3 Slide the jog lever repeatedly to select the frequency.

Frequency (100 Hz)
From the left, you can select 100 Hz, 250 Hz, 630 Hz, 1.6 kHz, 4 kHz, or 10 kHz.

4 Turn the volume control repeatedly to adjust the level.

Level (+10 dB)
You can select from among seven levels.
–10 dB, –6 dB, –3 dB, 0 dB, +3 dB, +6 dB, +10 dB

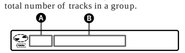
5 Repeat steps 3 and 4 to adjust the level for each frequency.

6 Press the jog lever to enter the selection.

►*Other operations*

Viewing the track name and playing time in the display on the remote control

You can check the track or disc name, track number, the elapsed playing time of the current track, the number of the tracks recorded on the MD, the group name, and the total number of tracks in a group.



1 Press DISPLAY on the remote control.
Each time you press DISPLAY, the display changes as the follows:

Ⓐ	Ⓑ
Track number	The elapsed time
Track number	Track name
The number of total tracks in the group	Group name
The number of total tracks	Disc name
Track number	Sound mode
Track number	SP/LP mode

Notes
- Depending on whether group play or normal play is selected, the operating conditions, and the disc settings, you may not be able to select certain indications or the indications may appear different.
- During playback, the SP/LP mode appears momentarily, and is then replaced by the elapsed time of the current track.

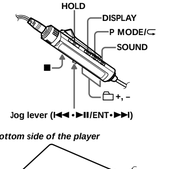
Suppressing the skips of the sound (G-PROTECTION)

The G-PROTECTION function was developed to provide a higher level of shock resistance than that of existing players in order to allow the player to be used while jogging.

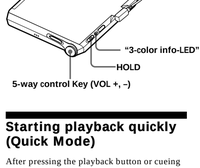
Note
The playback sound may skip if:
- the player receives stronger continuous shock.
- a dirty or scratched MiniDisc is played.

▶Other operations (continued)

Remote control



Bottom side of the player



Starting playback quickly (Quick Mode)

After pressing the playback button or cueing to a track, you can start playback quickly. This procedure can be done by the remote control.

1 Press and hold DISPLAY for 2 seconds or more.

2 Slide the jog lever repeatedly until "OPTION" appears in the display, and then press the jog lever.

3 Slide the jog lever repeatedly until "PowerMode" appears in the display, and then press the jog lever.

4 Slide the jog lever repeatedly until "QUICK" appears in the display, and then press the jog lever to enter the selection.
"QUICK" appears in the display.

To cancel the procedure
Press and hold the DISPLAY button or the ■ button for 2 seconds or more.

To cancel the setting
Select "NORMAL" in step 4 above.

Notes
- When the power mode is set to "QUICK," the power remains on within the player even when nothing appears in the display. This leads to a shorter battery life. For this reason, it is recommended that you charge the battery daily.
- If no player operation (including opening or closing of the lid) occurs for 17 hours, the power in the player automatically turns off. For this reason, the next time you start playback or do another operation, the player will not respond quickly. The unit, however, will return to quick mode afterwards.

Changing the playback speed (Digital Pitch Control)

The speed control function is useful for language study and other purpose. This function changes the playback speed without changing the playback pitch.
The playback speed can be varied from +100% to –50% the normal speed, in 13 steps.
This procedure can be done by the remote control.

1 During playback, press and hold DISPLAY for 2 seconds or more.

2 Slide the jog lever repeatedly until "USEFUL" appears in the display, and then press the jog lever.

3 Slide the jog lever repeatedly until "DPC" appears in the display, and then press the jog lever.
The player changes to speed-setting mode. Select the speed while listening the sound.

002 DPC (+ 50%)

4 Slide the jog lever repeatedly to select the speed, and then press the jog lever to enter the speed.
"DPC" appears in the display.

To cancel the procedure
Press and hold the DISPLAY button or the ■ button for 2 seconds or more.

Once you open the lid, the playback speed reverts back to the normal speed (0%).

Note
When using digital pitch control, you may hear noise or an echo in the playback.

Storing the settings for individual discs (Personal Disc Memory)

Settings can be memorized for a disc. Once memorized, "PERSONAL" appears in the display, the settings are recalled, and applied whenever the disc is inserted.
The following settings can be stored:
- Volume
- Play mode
- Program setting
- Virtual surround / 6-band equalizer
- Playback speed (Digital Pitch Control)
- Bookmark

This procedure can be done by the remote control.

1 Press and hold DISPLAY for 2 seconds or more.

2 Slide the jog lever repeatedly until "USEFUL" appears in the display, and then press the jog lever.

3 Slide the jog lever repeatedly until "PERSONAL" appears in the display, and then press the jog lever.
"Entry?" flashes in the display.

Entry?

4 Press the jog lever to enter the selection.
"Entry OK" appears in the display and the disc settings are stored in the player.

To erase the information recorded in personal disc memory
Insert the disc whose information is to be erased and verify its contents. After step 3 above, slide the jog lever repeatedly to flash "Erase?" in the display. And then press the jog lever to enter the selection. "Erase OK" appears in the display and the disc information is erased.
If you try to erase the disc information of a disc that has never been stored, "No Entry!" appears in the display.

Notes
- Settings can be stored for up to 20 discs. Any settings stored thereafter will replace the settings for the MD with the oldest playback date.
- If you use another MD recorder to edit or add tracks to a disc whose settings have been stored on the player, the disc will no longer be recognizable by the player and the stored information will become useless.

Setting the alarm (Melody Timer)

The alarm is convenient way to remind yourself of important times, such as when to get off the train. The alarm can be set to go off in 1 to 99 minutes.
This procedure can be done by the remote control.

1 Press and hold DISPLAY for 2 seconds or more.

2 Slide the jog lever repeatedly until "USEFUL" appears in the display, and then press the jog lever.

3 Slide the jog lever repeatedly until "M–TIMER" appears in the display, and then press the jog lever.

4 Slide the jog lever repeatedly until "ON" appears in the display, and then press the jog lever.
(●) appears.

TIMER

5 Slide the jog lever repeatedly to select the melody, and then press the jog lever.
You can select three kinds of sounds and set three different alarm settings.

Display	Alarm sound
"TIMER 1"	Classical music 1
"TIMER 2"	Classical music 2
"TIMER 3"	Classical music 3

6 Slide the jog lever repeatedly to specify the desired time.

TIME:01

Each time you slide the jog lever, the indication moves from "TIME:01" to "TIME:99" (1 minute to 99 minutes) in one- minute intervals.

7 Press the jog lever to enter the setting.

To cancel the procedure
Press and hold the DISPLAY button or the ■ button for 2 seconds or more.

To check the remaining time until the alarm
Stop playback. The remaining time will appear in the display after a short while.
Do steps 1 to 6 again to display the remaining time during play or play-pause.

To cancel the alarm settings
Select "OFF" in step 4 above.

To stop the alarm
Press any button to stop the alarm.

- If you end the procedure with step 4, the previous setting is automatically used.
- After sounding for 1 minute, the alarm will automatically stop and the alarm setting will be canceled. If the alarm stops during stop mode, then the power will automatically turn off 10 seconds after the alarm stops. If the alarm stops while an MD is playing, the playback will continue uninterrupted.

Note
The timer will begin counting from the moment you select "ON" in step 4. When you change the alarm setting in step 6, timer will begin counting again with the new alarm setting.

Protecting your hearing (AVLS)

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

1 During playback, press and hold DISPLAY for 2 seconds or more.

2 Slide the jog lever repeatedly until "OPTION" appears in the display, and then press the jog lever.

3 Slide the jog lever repeatedly until "AVLS" appears in the display, and then press the jog lever.

4 Slide the jog lever repeatedly until "AVLS ON" appears in the display, and then press the jog lever to enter the selection.
"AVLS ON" appears in the display.

To set the AVLS function on the player
During playback, slide HOLD in the direction of ▶, and then while pressing towards VOL –, slide HOLD in the opposite direction.

To cancel the AVLS function
On the remote control, select "AVLS OFF" in step 4 above and press the jog lever.
On the player, during playback, slide HOLD in the direction of ▶, and then while pressing towards VOL +, slide HOLD in the opposite direction.

Turning off the beep sound

You can set the beep so that it is not emitted when the player and remote control are operated.
This procedure can be done by the remote control.

1 Press and hold DISPLAY for 2 seconds or more.

2 Slide the jog lever repeatedly until "OPTION" appears in the display, and then press the jog lever.

3 Slide the jog lever repeatedly until "BEEP" appears in the display, and then press the jog lever.

4 Slide the jog lever repeatedly until "BEEP OFF" appears in the display, and then press the jog lever to enter the selection.

To cancel the procedure
Press and hold the DISPLAY button or the ■ button for 2 seconds or more.

To cancel the setting
Select "BEEP ON" in step 4 above.

Turning on/off the backlight in the display of the remote control

You can set the backlight in the display on the remote control.
This procedure can be done by the remote control.

1 Press and hold DISPLAY for 2 seconds or more.

2 Slide the jog lever repeatedly until "OPTION" appears in the display, and then press the jog lever.

3 Slide the jog lever repeatedly until "Backlight" appears in the display, and then press the jog lever.

4 Slide the jog lever repeatedly to select one of the following settings:

Display	Setting
AUTO	The backlight lights when you operate the player or the remote control, and automatically turns off when no operation is made for a while (factory setting).
ON	The backlight lights while the player is operating.
OFF	The backlight stays off.

5 Press the jog lever to enter the setting.

Locking the controls (HOLD)

1 Slide HOLD on the remote control in the ◀ direction, and slide HOLD on the player in the ▶ direction.
Sliding HOLD on the remote control disables the controls on the remote control. Sliding HOLD on the player disables the controls on the player.

To unlock the controls
Slide HOLD to the opposite directions of the arrows.

Preserving battery power (Power Save Mode)

This function allows you to maximize the operating life of the battery. Power consumption is reduced by turning off the "3-color info-LED" at all times, or by turning off the display when no operation has been made for a while.
This procedure can be done by the remote control.

1 Press and hold DISPLAY for 2 seconds or more.

2 Slide the jog lever repeatedly until "OPTION" appears in the display, and then press the jog lever.

3 Slide the jog lever repeatedly until "PowerMode" appears in the display, and then press the jog lever.

4 Slide the jog lever repeatedly until "PowerSave" appears in the display, and then press the jog lever to enter the selection.
The "3-color info-LED" turns off.

To cancel the procedure
Press and hold the DISPLAY button or the ■ button for 2 seconds or more.

To turn on the "3-color info-LED"
Select "NORMAL" in step 4 above .

▶Power sources

When to recharge the built-in battery

You can check the battery condition through the battery indicator on the remote control and the "3-color info-LED" on the player while using the player.

Indicator on the remote control

Battery power decreasing

Weak battery

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

Indicator of the "3-color info-LED" on the player

The LED lights up.	There is sufficient battery power.
↓ The LED flashes slowly.	Battery power decreasing
↓ The LED flashes quickly.	The battery is low. The LED will soon turn off and the supply of power will stop.

Notes
- The battery indicator may show the battery to be fully charged even when it is not. Charging the battery shorter than the prescribed time will result in a shorter operating time on the player.
- A stronger or weaker battery charge may be indicated when you fast forward or fast reverse an MD, or when you use the player at a very cold place.

Battery life[1]
(Unit: Approx. hours) (JEITA[2])

Batteries	SP Stereo (normal)	LP2 Stereo	LP4 Stereo
Lithium-ion built-in rechargeable battery[3]	23	33	40

1) Measured with the power save function on (see "Preserving battery power").
2) Measured in accordance with the JEITA (Japan Electronics and Information Technology Industries Association) standard (using a Sony MDW-series Mini-disc).
3) With a fully charged battery

Note
The battery life may be shorter than that specified, depending on the operating conditions, the temperature of the location.

Using house current

You can operate the player even if the built-in battery is exhausted. To do this, connect the battery charging stand to an AC outlet through the AC power adaptor, and then place the player on the stand.

▶Additional information

Precautions

On safety
- Make sure to keep the player in the supplied carrying pouch. If the terminals on the player or battery charging stand are accidentally brought into contact with a metallic object, they may short-circuit and begin to heat up.
- Keep the terminals on the player away from metallic objects or surfaces. Such contact may short-circuit the terminals and cause dangerous heat generation.
- Do not put any foreign objects in the DC IN 6V jack.
- If you will not use the player for a long time, be sure to disconnect the power supply (AC power adaptor or battery charging stand). When disconnecting the AC power adaptor from the electrical outlet, grasp the adaptor plug itself; never pull the cord.

On the AC power adaptor (for the supplied battery charging stand)
- For use in your house: Use the supplied AC power adaptor. Do not use any other AC power adaptor since it may cause the player to malfunction.

Polarity of the plug

- 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.

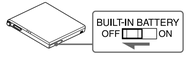
On charging
- The supplied battery charging stand can be used only with the MZ-E10. It cannot be used to charge any other models.
- Charge the built-in battery at a temperature of 0°C (+32°F) to +40°C (+104°F). The charging time will vary according to the surrounding temperature. (If the surrounding temperature is low, the required charging time will be longer. This is a characteristic of the built-in lithium-ion battery.)
- The battery charging stand and the player may become hot during the charging procedure; this, however poses no danger.
- Because of the battery's characteristics, the capacity of the built-in rechargeable battery may be smaller than normal when it is used for the first time or after a long period of disuse. In this case, charge and discharge the battery several times. The normal battery life will be restored.
- If the life of the built-in rechargeable battery drops to half the normal length, the battery should be replaced. Consult your nearest Sony dealer.
- If the player will be unused for a long time, remove the player from the battery charging stand and remove the AC power adaptor from the wall outlet. If the player will be unused for 3 months or more, we also recommend that you turn the BUILT-IN BATTERY switch (for built-in rechargeable battery) on the side of the player off.

On disposing of the unit
Before you dispose of the unit, remove the built-in rechargeable battery for environmental protection.

- Do not remove the screw except when disposing of the unit.
- Before removing the built-in rechargeable battery, make sure it is completely drained.

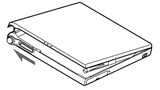
Do the following procedure to remove the built-in rechargeable battery. When removing the battery, use sharp-tipped tweezers.

1 Slide the BUILT-IN BATTERY switch on the side of the player to OFF.



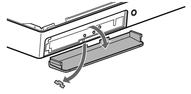
2 Remove the screw to the right of the BUILT-IN BATTERY switch.

3 Open the lid.

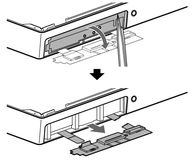


4 Pull up on the battery holder to remove it.

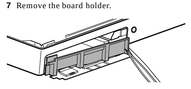
5 Pull the battery lid downward and remove the lid and the switch piece.



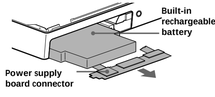
6 Pull the power supply board downward and detach it from the built-in rechargeable battery and the player.



7 Remove the board holder.



8 While pulling out the power supply board, remove the built-in rechargeable battery.



9 Attach a piece of insulating tape over the power supply board connector.

On handling
- Do not drop or bump the player. This may cause the player to malfunction.
- Do not pull on the remote control or headphones/earphones cords.
- Do not place the player in the following places:
  — An extremely hot place (over 60°C (140°F))
  — A place exposed to direct sunlight or near a heater
  — In a car with the windows rolled up (especially in the summer)
  — In a damp place such as a bathroom
  — Near a source of electromagnetic fields such as a magnet, speaker, or TV
  — In a dusty place

On heat build-up
Heat may build up in the player when it is charging or operated for a long time. This, however, is not a malfunction.

On mechanical noise
The player emits mechanical noise while operating, which is caused by the power-saving system of the player. This is not a malfunction.

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 remote control
The supplied remote control is designed for use with the MZ-E10 only. Note also that the player cannot be controlled by remote controls for other models.

On the MiniDisc cartridge
- Do not touch the internal disc directly. Forcing the shutter open may damage the internal disc.
- When transporting a minidisc, keep it in its case.
- Do not place the cartridge where it will be subjected to light, temperature, moisture or dust.
- Do not affix the label outside of the specified area on the MD. Make sure the label is placed within the recessed space on the disc.

On the headphones/earphones
Road safety
- Do not use headphones/earphones while driving, cycling, or operating any motorized vehicle. This may lead to a traffic accident and is illegal in many areas. It can also be potentially dangerous to play your player at high volumes while walking, especially at pedestrian crossings. You should exercise extreme caution or discontinue using the player in potentially hazardous situations.
- If you experience an allergic reaction to the supplied headphones/earphones, stop using them at once and consult a doctor or a Sony service center.

Preventing hearing damage
Avoid using headphones/earphones at high volumes. 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
- After wiping the player casing with a soft cloth slightly moistened with water, wipe it again with a dry cloth. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzene as this may mar the finish on 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.
- To maintain good sound quality, use a soft cloth to clean the plugs of the headphones/earphones and remote control. A dirty plug may cause noise or intermittent breaks in the sound during playback.

If you have any questions or problems concerning your player, please consult your nearest Sony dealer. (If a trouble occurred when the disc was in the player, we recommend that the disc be left in the player when you consult your Sony dealer so that the cause of trouble may be better understood.)

Troubleshooting

The built-in rechargeable battery does not charge.
- The terminals of the battery charging stand are dirty.
  ➡ Wipe the terminals with a dry cloth.
- The surrounding temperature is too high or too low ("CannotCHG" appears in the display).
  ➡ Charge the battery at a temperature of 0°C (+32°F) to +40°C (+104°F).
- The built-in rechargeable battery is drained. (If the player is on the battery charging stand, the "3-color info-LED" does not light on or the "CHG:– –" indication does not appear in the display on the remote control.)
  ➡ It takes about one minute after placing the player on the battery stand for an indication to appear and charging to start.

The "3-color info-LED" does not light up even when the player is placed on the battery charging stand.
- The BUILT-IN BATTERY switch on the side of the player is turned off.
  ➡ Turn the BUILT-IN BATTERY switch on.

The player does not work or works poorly.
- You tried to play with no disc in the player ("NO DISC" appears 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" appears on the remote control.)
  ➡ Slide HOLD in the opposite direction of the arrow to release the hold function.
- The BUILT-IN BATTERY switch on the side of the player is off.
  ➡ Turn the BUILT-IN BATTERY switch to on.
- You pressed a button on the player while making a setting on the remote control. ("MENU" appears on the remote control when a button on the player is pressed.)
  ➡ End the setting procedure using the remote control.
- Moisture has condensed inside the player.
  ➡ Take the MD out and wait for several hours until the moisture has evaporated.
- The built-in rechargeable battery is weak ("LOW BATT" appears on the remote control).
  ➡ Recharge the built-in battery.
- An MD with nothing recording on it is inserted ("BLANKDISC" appears on the remote control).
  ➡ Insert a recorded MD.
- The player cannot read the disc. (it's scratched or dirty) ("READ ERR" or "TOC ERR" appears 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 the player as follows:
  1 Turn the BUILT-IN BATTERY switch on the side of the player off .
  2 Let the player sit for about 30 seconds.
  3 Turn the BUILT-IN BATTERY switch on and connect the player to a power source.

There is no sound output from the headphones/earphones.
- The headphones/earphones plug is not firmly inserted.
  ➡ Insert the headphones/earphones plug firmly to the remote control.
  ➡ Insert the headphones/earphones plug firmly into the ☊ jack.
- AVLS is on.
  ➡ Cancel the AVLS function. For more details, see "Protecting your hearing."

The MD does not play normally.
- The player is set to the repeat mode.
  ➡ Press and hold the P MODE/⊂ button on the remote control, until "⊂" disappears, then start playing.

The MD does not play from the first track.
- The disc stopped playing before reaching the last track.
  ➡ Open the lid, or while the player is stopped, press and hold the jog lever for 2 seconds or more to start playing from the first track.

The playback sound skips.
- The player is placed where it receives continuous vibration.
  ➡ Place the player at a stable place.
- A very short track may cause sound to skip.

The sound has a lot of static.
- Strong magnetism from a television or other device causing interference.
  ➡ Move the player away from the source of strong magnetism.

Noise is momentarily heard.
- The sound was recorded in LP4 stereo mode.
  ➡ Because of the nature of the compression method used in LP4 mode, noise may be output on very rare occasions during playback of sound recorded in this mode.

During playback, the "3-color info-LED" or display on the remote control does not turn on.
- Power save mode is activated.
  ➡ Cancel power save mode.

The group function does not function.
- A disc that has no group settings is inserted.
  ➡ Insert a disc with group settings.

Specifications

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
Approx. 300 rpm to 2,700 rpm
Error correction
ACIRC (Advanced Cross Interleave Reed Solomon Code)
Sampling frequency
44.1 kHz
Coding
ATRAC (Adaptive TRansform Acoustic Coding)
ATRAC3: LP2/LP4
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
Outputs
Headphones/earphones: dedicated headphone/remote control jack, level 5 mW + 5 mW
load impedance 16 Ω
Power requirements
Lithium-ion rechargeable battery (Built-in: LIP-3WMB, 3.7 V, 340 mAh, Li-ion)
External power jack (for the battery charging stand): Power rating 6 V DC
Battery operation time
See "When to recharge the built-in battery"
Dimensions
Approx. 81.9 × 72.2 × 9.9 mm (w / h / d)
(3 $^{7}/_{8}$ × 2 $^{7}/_{8}$ × $^{13}/_{16}$ in.)
(not including projecting parts and controls)
Mass
Approx. 55 g (1.6 oz) (including the built-in rechargeable battery)
Supplied accessories
Headphones/earphones with a remote control (1)
Battery charging stand (1)
AC power adaptor (for the supplied battery charging stand) (1)
Headphone adaptor (1)
Carrying pouch (1)

US and foreign patents licensed from Dolby Laboratories.

Design and specifications are subject to change without notice.

Optional accessories
AC power adaptor
AC-E60L (for use in Japan), AC-E60A (for World model), AC-E60HG (for use outside Japan)
MDR series stereo headphones/earphones*
SRS series Active Speakers

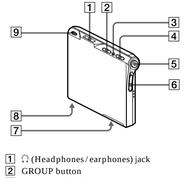
* Whether you should plug the headphones/earphones directly to the ☊ jack on the main unit or to a remote control, use only headphones/earphones with stereo mini plugs. Headphones/earphones with a microplug cannot be used.

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

Connecting a headphones/earphones directly to the player
Connect the headphones/earphones and the supplied headphone adaptor as follows:

Parts and controls

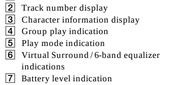
The Player



1 ☊ (Headphones/earphones) jack
2 GROUP button
3 "3-color info-LED"
4 HOLD (Locking the control) switch
5 5-way control key (⏮•⏭•▶*•■•VOL +, –)
6 OPEN switch
7 BUILT-IN BATTERY switch (at the bottom)
8 Terminals for charging stand (at the bottom)
9 Hand strap hole
Use the hole to attach your strap

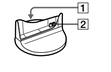
* ▶ has a tactile dot.

The display window of the remote control



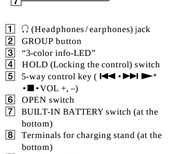
1 Disc indication
2 Track number display
3 Character information display
4 Group play indication
5 Play mode indication
6 Virtual Surround / 6-band equalizer indications
7 Battery level indication
8 Bookmark indication
9 Alarm indication

The battery charging stand



1 DC IN (6V jack) (at the bottom)
2 Terminals for charging

The headphones/earphones with a remote control



1 Headphones/earphones
2 Stereo mini plug
3 Control VOL +, –
Turn to adjust the volume.
4 ■ (stop) button
5 Jog lever (⏮•▶II/ENT•⏭)
6 ⊂ (Group) +, – button
7 Clip
8 HOLD switch
9 Display window
10 DISPLAY button
11 P MODE / ⊂ (play mode/repeat) button
12 SOUND button

This warranty is valid only in the United States.

SONY

Tape Cassette Player/Recorder/CD Player/Mini Disc DAT/Radio/Head Phone/Speaker/MIC/Personalis

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 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 offering 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.

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

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

Sony Direct Response Center
1-(800)-222-7669
or write to:
Sony Direct Response 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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