SONY

3-251-253-**12**(1)

Portable MiniDisc Player

Operating Instructions

WALKMAN MiniDisc MDLP

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MZ-E810SP

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

Getting started

Charge the supplied rechargeable battery before using it for the first time.

1 Insert the rechargeable battery.

Insert the battery minus end first.

NH-10WM

HOLD

2 Attach the player to the battery-charging case with speakers.

① While pressing OPEN on the battery-charging case, open the case.
② Insert the player as shown below.

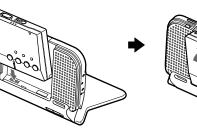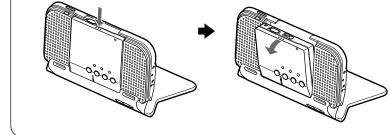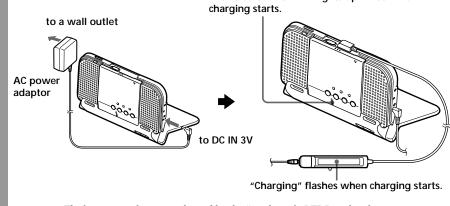Insert the player so that it engages with the connector in the battery-charging case.

Push the player in the direction of the arrow in the illustration.

Removing the player from the battery-charging case

While pushing gently, pull the player forward.

3 Charge the rechargeable battery.

The "3-color info-LED" lights up in red when charging starts.

to a wall outlet

AC power adaptor

to DC IN 3V

"Charging" flashes when charging starts.
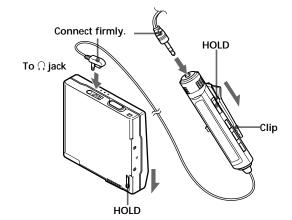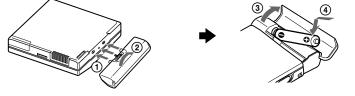
The battery condition is indicated by the "3-color info-LED" on the player:
Red → Orange → LED off (approx. 2.5 hours later)
The player can be used when the LED has turned off.

Note
If you start playback or do another operation during charging, the charging will stop.

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4 Make connections and unlock the controls.

Connect firmly.

HOLD

To ⌂ jack

Clip

HOLD

Using the dry battery

Attach the dry battery case to the player.
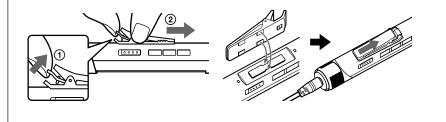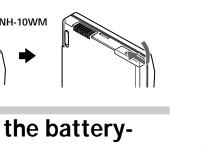
Insert the battery minus end first.

Insert a LR6 (size AA) alkaline dry battery.
To operate the player for the longest possible time, use the dry battery together with a fully charged rechargeable battery.

Using the clip for the remote control

It may be hard for you to read the indications in the display if the remote control is attached upside down with the clip in its current position. In this case, attach the clip in the opposite direction as shown below.

1 Remove the clip.

2 Attach the clip in the opposite direction.

Playing an MD
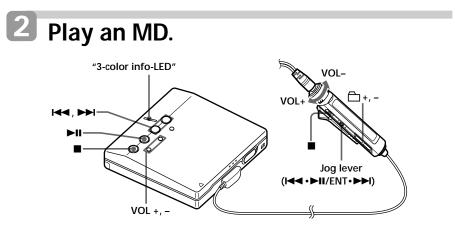
1 Insert an MD.

① Slide OPEN to open the lid.   ② Insert an MD.   ③ Close the lid.

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.

"3-color info-LED"

VOL–

VOL+

Jog lever
(◄◄ • ►II/ENT • ►►I)

►II

◄◄, ►►I

VOL +, –

① Press the jog lever (►II) on the remote control. (Press ►II 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 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 ►II 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 ►II on the player.) Press the jog lever (►II on the player) again to resume play.
Cue to the current track or the previous track	Slide the jog lever towards ◄◄ on the remote control (three short beeps). (Press ◄◄ on the player.)
Cue to the next track	Slide the jog lever towards ►►I on the remote control (two short beeps). (Press ►►I on the player.)
Go backwards or forward while playing	Slide and hold the jog lever towards ◄◄ or ►►I on the remote control. (Press and hold ◄◄ 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 ◄◄ 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 ◄◄ 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.

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 replace or recharge the battery" on the back page.

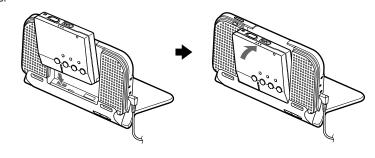| LED color	Operating status
Red	Playing a disc with no group settings
Green	Playing a disc with group settings
Orange	Cueing to another group (Group Skip)

Listening an MD with the supplied speakers

1 Attach the player to the battery-charging case with speakers.

① While pressing OPEN on the battery-charging case, open the case.
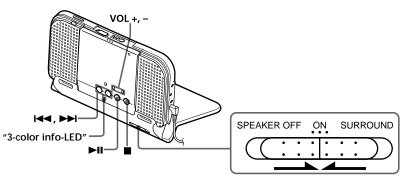② Insert the player as shown below.

Insert the player so that it engages with the connector in the battery-charging case.

Push the player in the direction of the arrow in the illustration.

Charging starts when the rechargeable battery is inserted in the player. Charging is finished when the "3-color info-LED" turns off.

2 Play an MD.

VOL +, –

"3-color info-LED"

◄◄, ►►I

►II

■

SPEAKER OFF ON SURROUND

① Slide the SPEAKER switch to ON.
② Press ►II.
The LED lights up.
③ Press VOL + or –.
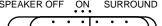The volume indicator appears in the display, allowing you to check the volume level.
To stop play, press ■.
Playback starts from the point you last stopped playing. To start playback from the beginning of the disc, press and hold ►II for 2 seconds or more.

Note
The beep does not sound during output from the speakers.

Activating the surround effects
Slide the SPEAKER switch to SURROUND.
It allows you to enjoy the surround effects.
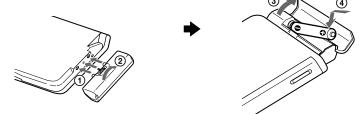
SPEAKER OFF ON SURROUND

Notes
• Depending on the track being played when you activate the surround effects, you may hear some distortion in the sound. In this case, turn the volume down or slide the SPEAKER switch to ON.
• When you activate the surround effects, the volume level will be lower than it is when the SPEAKER switch is set to ON.

Using the dry battery
The player will operate for the longest time if you use a dry battery together with a fully charged rechargeable battery. To use a dry battery, attach the dry battery case to the battery-charging case as shown below.

Attach the dry battery case to the battery-charging case.
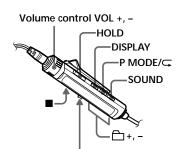
Insert the battery minus end first.

Insert a LR6 (size AA) alkaline dry battery.

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Using the AC power adaptor allows you to output a more powerful sound than is possible using the battery. To enjoy higher volume sound, use the AC power adaptor.
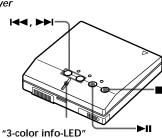

► Various ways of playback

Remote control

Volume control VOL +, –
HOLD
DISPLAY
P MODE/⌒
SOUND

Jog lever (◄◄ • ►II/ENT • ►►I)

⌂ +, –

Player

◄◄, ►►I
"3-color info-LED"
►II

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

🔲003 13:52

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

🔲003 13:52

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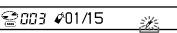Press and hold P MODE/⌒ for 2 seconds or more.

ᄬ
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.

🔲003 ♪01/15

Flashing slowly
The first track for bookmark play is set.

2 Repeat step 1 to bookmark other tracks.
You can bookmark with up to 15 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.

🔲003 PGM01   ☀

track number   programmed number

3 Repeat step 2 to program more tracks.
You can program up to 15 tracks.

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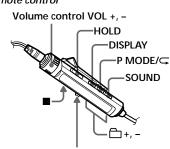The program is stored and playback starts from the first track.

ᄬ
The program play settings will remain in memory even after playback finishes or is stopped.
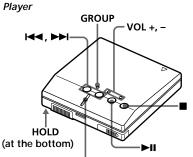
Note
All program settings are lost when the lid is opened.

►Various ways of playback (continued)

Remote control

Volume control VOL +, –
— HOLD
— DISPLAY
— P MODE/⊂
— SOUND

Jog lever (I◄◄/◄◄/ENT/►►I)

Player

GROUP
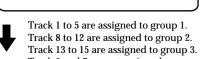VOL +, –
I◄◄ ►►I
HOLD (at the bottom)
"3-color info-LED"

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.
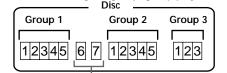
What is a disc with group settings?

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)

Disc
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

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)

Disc		
Group 1	Group 2	Group 3
1 2 3 4 5	6 7 8 9 10 11 12	1 2 3

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 set the group. 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 cueing, the "3-color info-LED" on the player flashes in orange.

On the player
1 During playback, press GROUP.
The "3-color info-LED" on the player 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 are played back side by side (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 mode.

Display	Play mode
⌂	Repeat play of tracks within a group
⌂ SHUF	Repeat shuffle play of tracks within a group
⌂ PGM	Repeat play for a 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"2003winter"
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"2003winter"//
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 (Ⓒ) or (Ⓑ).

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.

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)
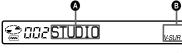Provides 4 kinds of virtual-surround conditions.
6-BAND EQUALIZER
Provides 6 different sound qualities.

Note
Virtual surround and 6-band equalizer effects will not be audible during speaker use.

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

1 During playback, press "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 or more.

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

To modify and store 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 jog lever 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 During playback, press DISPLAY on the remote control.
Each time you press DISPLAY, the display changes as 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

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 3 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.

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 "AVLS" appears in the display, and then press the jog lever.
3 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
On the remote control, select "AVLS OFF" in step 3 above and press the jog lever. On the player, during playback, slide HOLD in the direction of ➔ and then while pressing VOL –, slide HOLD in the opposite direction.

To cancel the AVLS function
On the remote control, select "AVLS OFF" in step 3 above and press the jog lever. On the player, during playback, slide HOLD in the direction of ➔ and then while pressing VOL +, slide HOLD in the opposite direction.

Note
The AVLS setting cannot be made during playback.

►Power sources

When to replace or recharge the 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

Indicator	
▮▮▮	Battery power decreasing
◁	Weak battery
(empty)	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.
- The battery indicator may not accurately indicate when you fast forward or fast reverse an MD, or when you use the player at a very cold place.

Battery life[1]
When using the headphones/earphones
(Unit: Approx. hours) (JEITA[2])

Batteries	SP Stereo (normal)	LP2 Stereo	LP4 Stereo
Ni-MH rechargeable battery NH-10WM[3]	28	33	43
LR6 (SG) Sony Alkaline dry battery[4]	57	72	91
LR6 (SG)[5] and NH-10WM[3]	86	107	132

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 "PowerMode" appears in the display, and then press the jog lever.
3 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 3 above.

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

Using house current

You can operate the player without a rechargeable battery or a dry battery. To do this, connect the battery-charging case with speakers to an AC outlet through the AC power adaptor, and then attach the player on the battery-charging case.

►Additional information

Precautions

On safety
- Make sure to keep the player in the supplied carrying pouch. If the terminals on the player, battery-charging case with speakers, or the dry battery case are accidentally brought into contact with a metallic object, they may short-circuit and begin to heat up.
- Keep the terminals on the player or on the dry battery case away from metallic objects or surfaces. Such contact may short-circuit the terminals and cause dangerous heat generation. When carrying the player with you, always keep the battery case attached to the supplied battery-charging case.
- When you carry the supplied rechargeable battery, be sure to put it in the supplied rechargeable battery carrying case. Carrying the rechargeable battery without the case may cause a short-circuit with metallic objects such as coins, key rings, or necklaces. As a result, heat may be generated.
- Do not put any foreign objects in the DC IN 3V jack.
- Do not carry or store the dry battery or battery case in the same place with metallic objects such as coins, key rings, or necklaces. This may cause a short-circuit and the generation of heat.
- Incorrect battery usage may cause the battery fluid to leak or battery to burst. To prevent such accidents, observe the following precautions:
  — Install battery with the + and – poles aligned correctly.
  — Do not charge dry battery.
  — If a battery leak should develop, carefully and thoroughly wipe away the battery fluid in the battery compartment before inserting a new battery.
  — If you will not use the player for a long time, be sure to disconnect the power supply (AC power adaptor, dry battery, rechargeable battery, or the battery-charging case). 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 case)
- For use in your house: Use the supplied AC power adaptor or the optional AC-E30A 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.

When using the speakers
(Unit: Approx. hours) (JEITA[2])

Batteries	SP Stereo (normal)	LP2 Stereo	LP4 Stereo
Ni-MH rechargeable battery NH-10WM[3]	12	13	14
LR6 (SG) Sony Alkaline dry battery[4]	17	19	20
LR6 (SG)[6] and NH-10WM[3]	40	44	47

[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
[4] When using a Sony LR6 (SG) "STAMINA" alkaline dry battery (produced in Japan).

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

On charging
- The supplied battery-charging case with speakers can be used only with the MZ-E810SP. It cannot be used to charge any other models.
- Do not use the supplied battery-charging case with speakers to charge any other battery besides the one designated for it.
- Charge the rechargeable battery at a temperature of +5°C (+41°F) to +40°C (+104°F). The charging time will vary according to the surrounding temperature.
- The battery-charging case and the battery may become hot during the charging procedure; this, however poses no danger.
- Because of the battery's characteristics, the capacity of the 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 capacity of the rechargeable battery drops to half the normal amount, replace it with a new one.
- As soon as the charging is complete, remove the player from the battery-charging case and disconnect the battery-charging case from the electrical outlet. Leaving it connected may result in reduced battery performance.

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.
- Clean the terminals periodically with a cotton swab or a soft cloth as illustrated.

Rechargeable battery compartment
Terminal

Dry battery case
Terminal

Rechargeable battery (supplied)/ Dry battery (not supplied)
Terminal

Battery-charging case with speakers
Terminal

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 rechargeable battery does not start charging.
- The terminals of the battery-charging case are dirty.
  ➔ Wipe the terminals with a dry cloth.
- The rechargeable battery is not inserted in the player.
  ➔ Insert the rechargeable battery into the player.

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 player stopped playing before reaching the last track.
  ➔ Open the lid or when the player stops, 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.

The player does not work or works poorly.
- The rechargeable battery or dry battery has been installed incorrectly.
  ➔ Install the battery with correct polarity.
- You tried to play with no disc in the player ("NO DISC" appears on the remote control).
  ➔ Insert an MD.

On charging
(continued notes...)

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.

- You pressed on 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 rechargeable battery or dry battery is weak ("LOW BATT" appears on the remote control).
➔ Insert a new dry battery or recharge the 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 Disconnect the power source.
  2 Let the player sit for about 30 seconds.
  3 Reconnect the 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 player is attached to the battery-charging case with speakers.
➔ Attach the player firmly to the battery-charging case with speakers.
- The SPEAKER switch is set to ON.
➔ Slide the SPEAKER switch to ON or SURROUND.

The sound from the speakers is distorted.
- The SPEAKER switch is set to SURROUND.
➔ Depending on the track being played when you activated the surround effects, you may hear some distortion in the sound. In this case, turn the volume down or slide the SPEAKER switch to ON.

The "3-color info-LED" light up still even when the player is attached onto the battery-charging case.
- The rechargeable battery is not inserted in the player.
➔ Insert the rechargeable battery into the player.
- The LED may not light on immediately after you placed the player on the battery-charging case.
➔ The LED will light up after about 3 minutes and charging will begin.

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.
➔ In power save mode, the display on the remote control turns on whenever the remote control is operated, but not when the controls on the player are operated. (The exception is when the GROUP button on the player is pushed.)

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

Bookmark play on the player is not possible. ("NoEntry" appears in the display on the remote control.)
- You tried to select bookmark play without setting bookmarks.
➔ Set bookmarks.

Parts and controls

The Player

1 OPEN switch
2 Terminals for dry battery case
3 HOLD (Locking the control) switch
4 Terminals for charging the battery with the battery-charging case (at the bottom)
5 I◄◄ ►►I button
6 "3-color info-LED"
7 ◖ (headphones/earphones) jack
8 GROUP button
9 VOL +, – buttons
10 ► button
11 Battery compartment
12 ►II button

* VOL + and ►II have 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

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 (Headphones/earphones output terminal)
20 to 20,000 Hz ± 3 dB
Outputs
Headphones/earphones: stereo mini-jack, maximum output level 5 mW + 5 mW* load impedance 16 Ω
Speaker Output
When using the AC power adaptor:
450 mW + 450 mW
When using a dry battery or a rechargeable battery:
50 mW + 50 mW
Power requirements
Nickel metal hydride rechargeable battery
One NH-10WM (supplied): 1.2 V,
900 mAh (MIN)
One LR6 (size AA) battery (not supplied)
External power jack (for the battery-charging case): Power rating 3V DC
Battery operation time
See "When to replace or recharge the battery"
Dimensions
Player:
Approx. 80.6 × 73.4 × 15.3 mm (w/h/d) (3 ¹/₄ × 3 × ¹/₃ in.)
(not including projecting parts and controls)
The battery-charging case with speakers:
Approx. 160.0 × 91.7 × 22.2 mm (w/h/d) (6 ³/₈ × 3³/₄ × ⁷/₈ in.)
Mass
Approx. 71 g (2.5 oz) (the player only)
Approx. 120 g (4.23 oz) (the battery-charging case with speakers only)
Supplied accessories
Headphones/earphones with a remote control (1)
Battery-charging case with speakers (1)
AC power adaptor (for the supplied battery-charging case) (1)
Rechargeable battery (1)
Rechargeable battery carrying case (1)
Dry battery case (1)
Carrying pouch (1)
AC plug adaptor (1)

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Design and specifications are subject to change without notice.
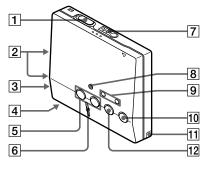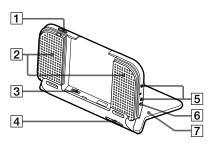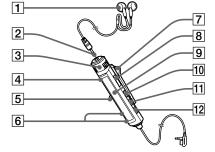
Optional accessories
AC power adaptor AC-E30A
NH-10WM Nickel metal hydride rechargeable battery
MDR series stereo headphones/earphones*
* Whether you should plug the headphones/earphones directly to the ◖ jack on the main unit or to a remote control, use only headphones/earphones with stereo mini plugs. 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.

The battery-charging case with speakers

1 OPEN button
2 Speakers
3 Connector terminal for the player
4 SPEAKER (OFF • ON • SURROUND) switch
5 Terminals for dry battery case
6 DC IN 3V jack
7 Battery charging case lid

The headphones/earphones with a remote control

1 Headphones/earphones
2 Stereo mini plug
3 Volume control VOL +, – Turn to adjust the volume.
4 ■ (stop) button
5 Jog lever (I◄◄/►►I/ENT/►►I) button
6 HOLD switch
7 VOL +, – button
8 Clip
9 HOLD switch
10 Display window
11 DISPLAY button
12 P MODE/⊂ (play mode/repeat) button
13 SOUND button

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Turning off the beep sound

You can set the beep so that it is not emitted when the player and the 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 "BEEP" appears in the display, and then press the jog lever.
3 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 3 above.

Note
The beep sound setting cannot be made during playback.

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.

Turning on/off the backlight in the display on 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 "BackLight" appears in the display, and then press the jog lever.
3 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.

4 Press the jog lever to enter the setting.

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