

# Portable MiniDisc Player

Operating instructions  
XXXXXX (XXXX)



Sony Corporation © 2000 Printed in Japan

## WARNING

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

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

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

### 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.

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

## Welcome!

Welcome to the world of the MiniDisc! Below are some of the features you will discover with the new MiniDisc player.

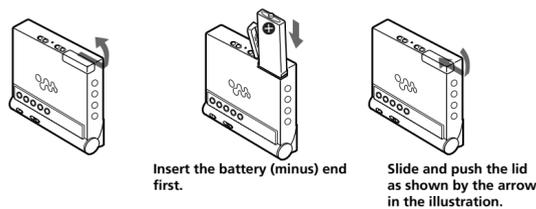
- Compact body with newly developed head-loading system.** Insert or eject an MD with the slightest touch of a finger.
- Simple-to-charge folding standup battery charger** Insert the MD player into the folding standup battery charger for simple, one-step charging. By connecting an optional car battery cord to the battery charger, you can listen to the player in the car without worrying about battery rundown.
- LCD display built into player for easy viewing in the car** An easy-to-see LCD display built into the player allows you to monitor track numbers when the remote control display is out of view.\*
- Personalized sound through Digital Sound Preset functions** You can store two sets of sound quality adjustments (made during playback) to two switches.
- Small body almost the size of a MiniDisc jacket**
- Low power-consumption design for extended battery life.**
- Easy-to-operate earphones remote control with backlit LCD**
- Shock-resistant memory offsets up to 40 seconds of optical read errors.**

\* Do not operate the unit when you drive.

# Getting Started **A**

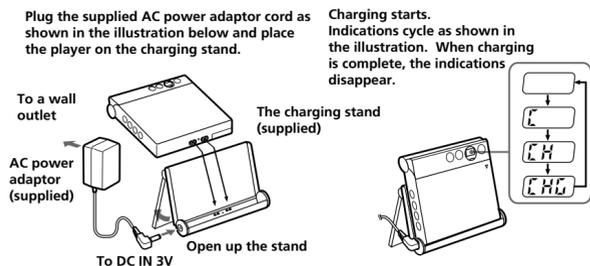
You should charge the supplied rechargeable battery before using it for the first time. You can also operate the player on house current (For more details, see "Using house current.")

## 1 Insert a rechargeable battery.



Insert the battery (minus) end first. Slide and push the lid as shown by the arrow in the illustration.

## 2 Charge the rechargeable battery.



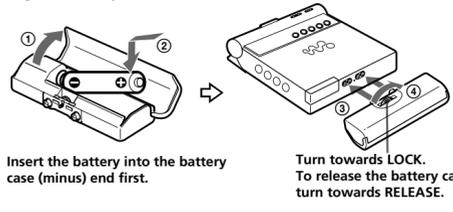
Plug the supplied AC power adaptor cord as shown in the illustration below and place the player on the charging stand. Charging starts. Indications cycle as shown in the illustration. When charging is complete, the indications disappear.

After inserting the rechargeable battery, place the player on the charging stand. Battery charging automatically starts and the battery charging indications cycle in the display as shown in the illustration above. After about 3 hours, the indications disappear and charging ends. (To get maximum performance from the battery, continue charging it for another 2 hours after the indications disappear.) The rechargeable battery can be recharged about 300 times.

### Notes

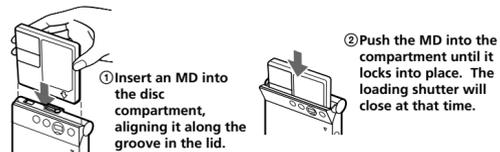
- Before charging the battery, push **■** to stop playback. The battery cannot be charged during playback. Pressing the playback button during charging will cause starting the playback and charging to stop.
- Charging is displayed on the remote control display during battery charging and the battery mark changes as follows:
- While playing the MD with the charging stand, the player gives out mechanical noise. However, this is not a malfunction.

**Using on a dry battery**  
Insert one LR6 (size AA) alkaline battery (not supplied) into the supplied battery case. The playing time will be even longer if you use both a dry battery and a rechargeable battery at the same time.



Insert the battery into the battery case (minus) end first. Turn towards LOCK. To release the battery case, turn towards RELEASE.

## 3 Insert an MD.



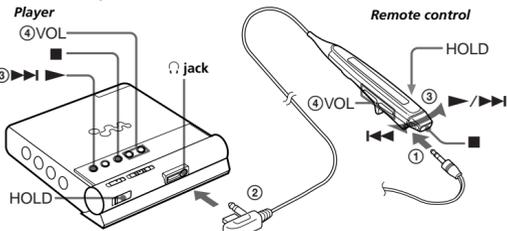
**Removing the MD**  
Press **■** to stop playback, and then slip open the loading shutter to eject the MD.

# Playing an MD **B**

The player automatically switches to play the monaural sound according to the recorded monaural sound.

## 1 Playing an MD

Before operating the player, make sure the HOLD function is off. For details, see "To lock the controls."



- Connect the earphones to the remote control. Make sure the plug is firmly inserted into the remote control.
- Connect the earphones with the remote control to the **⌚** jack.
- Press **▶▶▶** (or press the control towards **▶▶▶** or **◀◀◀** on the remote control). The player starts to play the first track and "1" is displayed on the player. When using the remote control, a short beep sounds in the earphones.
- Press **VOLUME +/-** to adjust the volume. The volume indicator appears on the player and the remote control to allow you to check the volume. When you adjust the volume, a number from 0 to 10 is displayed to indicate the volume level on the player, and the volume level bar is indicated on the remote control.

**To stop play, press ■.**  
A stop indication is displayed on the player. See "Player display indications" below. When using the remote control, a long beep sounds in the earphones. The display on the remote control turns off a short while after you push **■**. For more details about the display on the remote control, see "To know the track name and playing time."

To	Do this (Beeps in the earphones)
Pause	Press <b>■</b> on the remote control. (Continuous short beeps) Press <b>■</b> on the remote control again to resume play.*1
Find the beginning of the current track	Press <b>◀◀◀</b> once. Press the control towards <b>◀◀◀</b> on the remote control. (Three short beeps)
Find the beginning of the previous tracks	Press <b>◀◀◀</b> repeatedly. Press the control towards <b>◀◀◀</b> on the remote control repeatedly. (Continuous three short beeps)
Find the beginning of the next track	Press <b>▶▶▶</b> once. Press the control towards <b>▶▶▶</b> on the remote control. (Two short beeps)
Go backwards while playing*1	Hold down <b>◀◀◀</b> . Press and hold the control towards <b>◀◀◀</b> on the remote control.
Go forward while playing*1	Hold down <b>▶▶▶</b> . Press and hold the control towards <b>▶▶▶</b> on the remote control.
Remove the MD	Press <b>■</b> , and then slip open the loading shutter.*2

\*1 When you press **◀◀◀** or **▶▶▶** on the player during pause (**■**), the player resumes playback. If you hold down **◀◀◀** or **▶▶▶** on the player (or press and hold the control towards **◀◀◀** or **▶▶▶** on the remote control) during pause (**■**), you can fast forward/rewind without listening to the playback sound.  
\*2 Once you slip open the loading shutter, the point to start playback will change to the beginning of the first track.

**Note**  
Do not slip open the loading shutter during playback. If you do, playback stops.

**Player display indications**

- Immediately after inserting a disc**  
Indicates the total number of tracks on the disc (12 tracks in this example).
- Holding (flashing)**  
Appears when operation of the player is attempted while Hold function is on.
- No Disc/BlankDisc (flashing)**  
There is no disc in the player or the disc is blank disc.
- Volume indication**  
The volume level is indicated as a number from 0 to 10, with three levels for each number. (EX: 2-, 2+, 2:) The total number of volume levels is 32.
- AVLS switch is set to "LIMIT." (flashing)**  
Appears when the volume level exceeds the limit level.

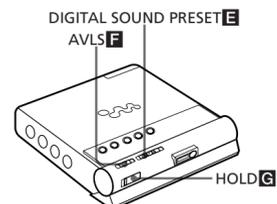
**Stopped**

**Playing, rewinding, or fast-forwarding during track 3, or cueing to track 3**

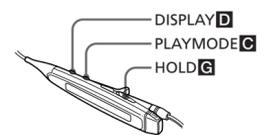
**Paused (Flashing)**  
Paused track 3

## Various ways of playback

Bottom side of the player



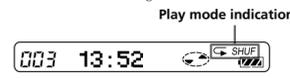
Remote control



## Playing tracks repeatedly **C**

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

Press PLAYMODE on the remote control while the player is playing an MD. Each time you press PLAYMODE, the play mode indication changes as follows.



- (none) (normal play)**  
All the tracks are played once.
- "C" (all repeat)**  
All the tracks are played repeatedly.
- "C 1" (single repeat)**  
A single track is played repeatedly.
- "C SHUF" (shuffle repeat)**  
All the tracks are played repeatedly in random order.

## To know the track name and playing time **D**

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



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

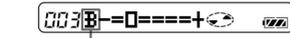
## To adjust the sound quality (DIGITAL SOUND PRESET) **E**

You can make adjustments to the sound quality to suit your taste, and then store two sets of these adjustments.

- Slide DIGITAL SOUND PRESET to select 1 or 2.



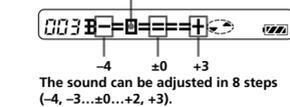
- During playback, hold down DISPLAY or PLAYMODE until the following indicator appears on the remote control. Press DISPLAY to select bass, and PLAYMODE to select treble.



When you select bass-setting mode, "B" appears. When you select treble-setting mode, "T" appears.

- Press **▶▶▶** or **◀◀◀** on the remote repeatedly to adjust the bass or the treble.

Example: While adjusting the bass. The cursor moves. (Position: -2)



The sound can be adjusted in 8 steps (-4, -3, -2, -1, 0, +1, +2, +3). If you hold down PLAYMODE while in bass-setting mode, the mode will change to treble-setting mode. If you hold down DISPLAY while in treble-setting mode, the mode will change to bass-setting mode.

- Press DISPLAY or PLAYMODE. The sound settings are saved and the playback display appears again. If you perform no sound adjustments for a given duration of time, the playback display appears again and any settings that were made are saved.

## The factory settings of the Digital SOUND PRESET

The factory settings of the DIGITAL SOUND PRESET are the following:  
• DIGITAL SOUND PRESET 1: bass +1, treble ±0  
• DIGITAL SOUND PRESET 2: bass +3, treble ±0

### Notes

- Settings can also be changed while playback is momentarily paused (**■**).
- Settings cannot be changed through the operation buttons on the player.
- Settings cannot be changed while the DIGITAL SOUND PRESET switch is set to OFF.

## To protect your hearing (AVLS) **F**

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



Set AVLS to LIMIT. The volume is kept at a moderate level, even if you try to turn the volume above the limited level. See "Player display indications" in "Playing an MD."

**To cancel the AVLS function**  
Set AVLS to NORM to cancel the AVLS function.

## To lock the controls (HOLD) **G**

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

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

## Power sources

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

## When to replace or recharge the battery **H**

You can check the battery condition with the battery indication on the remote control while using the player.

- Battery power decreasing
- Weak batteries
- The batteries have gone out. "LOW BATT" flashes in the display on the remote control, and the power goes off.

### Battery life\*

Batteries	Playback
Ni-MH rechargeable battery (NH-14WM)	Approx. 24 hours*
One (size AA) alkaline battery**	Approx. 37 hours
One (size AA) alkaline battery** and a Ni-MH rechargeable battery (NH-14WM)	Approx. 64 hours

\* With a fully charged battery  
\*\* When using a LR6 (SG) Sony "STAMINA" alkaline dry battery (produced in Japan).

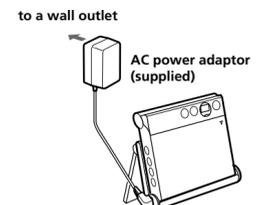
### Note

The battery life may be shorter depending on operating conditions, the surrounding temperature, and the battery type.

## Using house current **I**

As long as the charging stands AC power cord is plugged into a wall outlet, you can operate the player, even if the rechargeable battery is not inserted.

- Connect the supplied AC power adaptor to the DC IN 3V jack on the charging stand.
- Place the player into the charging stand.
- Connect the AC power adaptor to an wall outlet.



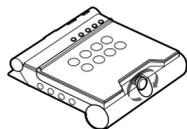
### Notes

- If the terminals on the stand are not firmly connected to the terminals on the player, player operation or battery charging will not be possible.
- For details about charging the battery, see "Getting started."

## To connect a car stereo **J**

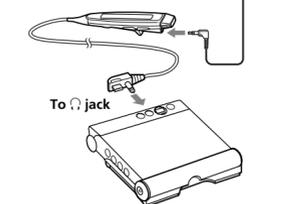
By using the car connecting pack (not supplied) and car battery cord (not supplied), you can listen to the player inside of a car, even without the rechargeable battery.

- Place the player into the charging stand. Make sure the terminals on the stand are firmly connected to the player. Secure the player by turning the screw on the bottom of the charging stand clockwise.



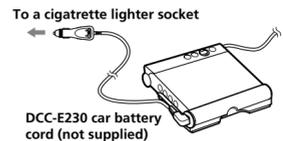
- Connect the car connecting pack and the remote control as shown in the illustration below.

**To car cassette deck**  
CPA-9C car connecting pack (not supplied)



- Connect the car battery cord to the DC IN 3V jack on the charging stand.

- Insert the end of the car battery cord into the cigarette lighter socket.



DCC-E230 car battery cord (not supplied)

### Notes

- Do not leave the player and the charging stand in the car.
- Do not leave the car battery cord connected.
- Do not use the earphones while driving.

## Additional information

### Precautions

#### On safety

- Make sure to keep the player in the supplied carrying pouch. If the terminals on the player, charger, or 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 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 player and the player in the supplied carrying pouch.
- When you carry the supplied charging battery, be sure to put it in the supplied rechargeable battery carrying case. Carrying the charging battery without the case may cause a short-circuit with metallic objects such as coins, key rings, or necklace. As a result, a heat may generate.
- Do not put any foreign objects in the DC IN 3V jack.

## Warning

- 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 to occur and the generation of heat.
- Incorrect battery usage may lead to leakage of battery fluid or bursting batteries. To prevent such accidents, observe the following precautions:
  - Install batteries with the + and − poles aligned correctly.
  - Do not try to recharge dry batteries.
  - When the player is not to be used for a long time, be sure to remove the batteries.
- If a battery leak should develop, carefully and thoroughly wipe away battery fluid from the battery compartment before inserting new ones.

### About power sources

- For use in your house or car: Use the supplied AC power adaptor or the DCC-E230 car battery cord (not supplied) to supply power to the player. Do not use any other power supply.



- If you are not going to use this player for a long time, be sure to disconnect the power supply (AC power adaptor, dry battery, or rechargeable battery). To remove the AC power adaptor from the wall outlet, grasp the adaptor plug itself; never pull the cord.

### About charging

- The supplied charging stand can be used only with the MZ-E800. Any other model cannot be charged.
- If the terminals on the charging stand and on the player become dirty, the battery may not be able to charge the battery. In this case, wipe the terminals with a dry cloth.
- Do not use it to charge any other battery besides the one designated for it (NH-14WM).
- Charging time may vary depending on the battery condition. The capacity of the battery may be shorter 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 battery life will be restored.
- If the rechargeable battery capacity becomes half the normal life, replace it with a new one.
- Remove the rechargeable battery when the unit is not to be used for a long time.
- Though the charging stand and battery may become hot during the charging procedure, this poses no danger.

### If the support on the charging stand accidentally detaches

Attach the stand as shown in the illustration below.



### On dry batteries and the battery carrying case

The supplied battery case is designed for use with the MZ-E800 only. Never use another type of battery case with this player.

### Handling

- Do not drop or give a bump the player. This may cause the player to malfunction.
- Do not pull on the remote control or earphones cords.
- Do not place the player in the following places:
  - 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.
  - In a dusty place.
  - Near a source of electromagnetic fields such as a magnet, speaker, or TV.
- If you experience an allergic reaction to the supplied earphones, stop using them at once and consult a doctor or a Sony service center.

### On heat build-up

Heat may build up in the player if it is used for an extended period of time. This, however, is not a malfunction.

### On mechanical noise

The player gives out 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 earphones

#### Road safety

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

#### Preventing hearing damage

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

#### Caring for others

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

#### On the MiniDisc cartridge

- Do not touch the internal disc directly. Forcing the shutter open may damage the internal disc.
- Do not place the cartridge where it will be subjected to light, temperature, moisture or dust.
- On cleaning**
  - Clean the player casing with a soft cloth slightly moistened with water or a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzene as it may mar the finish of the casing.
  - Wipe the disc cartridge with a dry cloth to remove dirt.
  - 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 plug of the remote control. A dirty plug may cause noise or skipping during playback.

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

## Troubleshooting

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

### The player does not work or works poorly.

- You tried to play with no disc in the player (“*Ⓛ* : *?*” flashes on the player, “NO DISC” flashes on the remote control).
  - Insert an MD.
  - The hold function is activated and the controls are locked. (If you press any of the operation buttons on the player, “*H id*” flashes on the player, “HOLD” flashes on the remote control.)
    - Slide HOLD against the direction of the arrow to release the hold function.
- Moisture has condensed inside the player.
  - Take the MD out and wait for several hours until the moisture evaporates.
- The rechargeable battery or dry battery is weak (“*Ⓛ Ⓛ*” flashes on the player, “LOW BATT” flashes on the remote control).
  - Replace a new dry battery or recharge the battery.
- The rechargeable battery or dry battery has been installed incorrectly.
  - Install the battery with correct polarity.

- An MD with no recording on it is inserted (“*Ⓛ* : *?*” flashes on the player, “BLANKDISC” flashes on the remote control).
  - Insert a recorded MD.
- The player cannot read the disc (it’s scratched or dirty) (“*Err*” flashes on the player, “DISC Err” flashes on the remote control).
  - Reinsert or replace the disc.
- While operating, the player received a mechanical shock, too much static, abnormal power voltage caused by lightning etc.
  - Restart as follows.
    - Disconnect all the power sources.
    - Leave the player for about 30 seconds.
    - Connect the power source.

### The MD is not played normally.

- The player is set to the repeat mode (“*∞*” is displayed on the remote control).
  - Press PLAYMODE repeatedly until “*∞*” disappears, then start playing.

### An MD is not played from the first track.

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

### The Digital Sound Preset function does not function.

- The DIGITAL SOUND PRESET switch is set to OFF.
  - Set the switch to 1 or 2.

### Playback sound skips.

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

### Sound has a lot of static.

- Strong magnetism from a television or such device is interfering with operation.
  - Move the player away from the source of strong magnetism.

### The rechargeable battery does not start charging (in case of a charger with a lid).

- The lid of the battery charger is not closed properly.
  - Close the lid and slide the lock.
- A disc is playing.
  - Stop playback.

### No sound comes through the earphones.

- The earphones plug is not firmly connected.
  - Connect the earphones plug firmly to the remote control.
  - Connect the earphones plug firmly to the ♪ jack.
- Volume is too low.
  - Adjust the volume by pressing VOLUME +/- (VOL +/- on the remote control).
- AVLS is on.
  - Slide AVLS to NORM.

## Specifications

### System

**Audio playing system**
MiniDisc digital audio system
**Laser diode properties**
Material: GaAlAs
Wavelength: λ = 790 nm
Emission duration: continuous
Laser output: less than 44.6 μW\*
\* This output is the value measured at a distance of 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.
**Revolutions**
600 rpm to 2250 rpm
**Error correction**
Advanced Cross Interleave Reed Solomon Code (ACIRC)
**Sampling frequency**
44.1 kHz
**Coding**
Adaptive TTransform Acoustic Coding (ATRAC)
**Modulation system**
EFM (Eight to Fourteen Modulation)
**Number of channels**
2 stereo channels
1 monaural channel
**Frequency response**
20 to 20,000 Hz ± 3 dB

**Wow and Flutter**
Below measurable limit
**Outputs**
Earphones: stereo mini-jack, maximum output level 5 mW + 5 mW, load impedance 16 ohms

### The Player

**General**
**Power requirements**
Nickel metal hydride rechargeable battery
One NH-14WM (supplied): 1.2V, 1,400 mAh
One LR6 (size AA) battery (not supplied)
Sony AC Power Adaptor\* (supplied) connected to the DC IN 3V jack
**Battery operation time**
See “When to replace or charge the batteries”
**Dimensions**
Approx. 79.5 × 76.7 × 17.0 mm (w/h/d) (not including projecting parts and controls)
**Mass**
Approx. 110g (the player only)
**Supplied accessories**
Earphones with a remote control (1)
Charging stand (1)
Nickel metal hydride rechargeable battery (1)
AC power adaptor (1)
Dry battery case (1)
Rechargeable battery carrying case (1)
Carrying pouch (1)

### Optional accessories

CPA-9C Car connecting pack
DCC-E230 Car battery cord
MDR series stereo earphones\*\*
SRS series Active Speakers

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

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

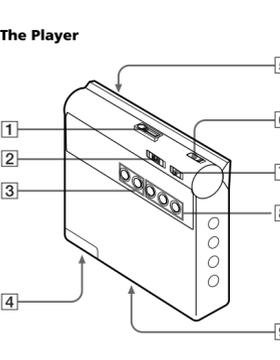


Your dealer may not handle some of the above listed accessories. Please ask the dealer for detailed information about the accessories in your country.

US and foreign patents licensed from Dolby Laboratories Licensing Corporation.

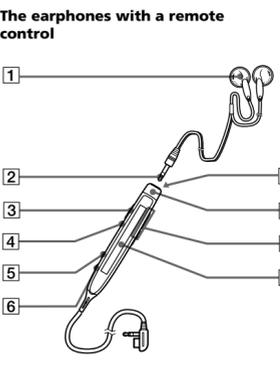
Design and specifications are subject to change without notice.

## Parts and controls



- ♪ (earphones) jack
- DIGITAL SOUND PRESET switch
- VOL (volume) +/- button
- Battery compartment (at the bottom)
- Mini-disc loading shutter (EJECT)
- HOLD (Locking the control) switch
- AVLS (Automatic Volume Limiter System) NORM/LIMIT switch
- Mini-disc control button
- Terminals for charging stand (at the bottom)

## The earphones with a remote control



- Earphones
  - Can be replaced with optional earphones.
- Stereo mini plug
- HOLD (Locking the control) switch
- ⏸ (pause) button
- PLAYMODE button
- DISPLAY button
- (stop) button
- Control
  - To play, press towards **▶ / ▶▶** during stop.
  - Press towards **▶ / ▶▶** during play to search the beginning of the succeeding track; hold in this position to fast-forward. Press towards **◀◀** during play to search the beginning of the preceding track; hold in this position to rewind.
- VOL (volume) +/- button
- Display window

## English (Traditional Chinese)

### As you read, refer to the illustrations in the English text.

### Welcome!

Welcome to the world of the MiniDisc! Below are some of the features you will discover with the new MiniDisc player.

- Compact body with newly developed head-loading system.** Insert or eject an MD with the slightest touch of a finger.
- Simple-to-charge folding standup battery charger** Insert the MD player into the folding standup battery charger for simple, one-step charging. By connecting an optional car battery cord to the battery charger, you can listen to the player in the car without worrying about battery rundown.
- LCD display built into player for easy viewing in the car** An easy-to-see LCD display built into the player allows you to monitor track numbers when the remote control display is out of view.\*
- Personalized sound through Digital Sound Preset functions** You can store two sets of sound quality adjustments (made during playback) to two switches.
- Small body almost the size of a MiniDisc jacket**
- Low power-consumption design for extended battery life.**
- Easy-to-operate earphones remote control with backlit LCD**
- Shock-resistant memory offsets up to 40 seconds of optical read errors.**

\* Do not operate the unit when you drive.

“WALKMAN” is a registered trademark of Sony Corporation.

## ►Getting Started

### Getting Started A

You should charge the supplied rechargeable battery before using it for the first time. You can also operate the player on house current (For more details, see “Using house current”)

- Insert a rechargeable battery.

- Charge the rechargeable battery. After inserting the rechargeable battery, place the player on the charging stand. Battery charging automatically starts and the battery charging indications cycles in the display. After about 3 hours, the indications disappear and charging ends. (To get maximum performance from the battery, continue charging it for another 2 hours after the indications disappear.) The rechargeable battery can be recharged about 300 times. To use a dry battery, insert one LR6 (size AA) alkaline battery (not supplied) into the supplied battery case, and attach the battery case to the player.

- Notes**
  - Before charging the battery, push **■** to stop playback. The battery cannot be charged during playback. Pressing the playback button during charging will cause starting the playback and charging to stop.
  - Charging is displayed on the remote control display during battery charging and the battery mark changes as follows: ◻→▬→▬▬→▬▬▬
  - While playing the MD with the charging stand, the player gives out mechanical noise. However, this is not a malfunction.

- Insert an MD.
  - Insert an MD into the disc compartment, aligning it along the groove in the lid.
  - Push the MD into the compartment until it locks into place. The loading shutter will close at that time. For removing the MD, press **■** to stop playback, and then slip open the loading shutter to eject the MD.

## ►MD playing

### Playing an MD B

The player automatically switches to play the monaural sound according to the recorded monaural sound.

- Playing an MD. Before operating the player, make sure the HOLD function is off. For details, see “To lock the controls.”

- Connect the earphones to the remote control. Make sure the plug is firmly inserted into the remote control.
- Connect the earphones with the remote control to the ♪ jack.
- Press **▶▶** **▶** (or press the control towards **▶ / ▶▶** or **◀◀** on the remote control). The player starts to play the first track and “1” is displayed on the player. When using the remote control, a short beep sounds in the earphones.
- Press VOLUME +/- to adjust the volume. The volume indicator appears on the player and the remote control to allow you to check the volume. When you adjust the volume, a number from 0 to 10 is displayed to indicate the volume level on the player, and the volume level bar is indicated on the remote control.

### To stop play, press ■.

A stop indication is displayed on the player. When using the remote control, a long beep sounds in the earphones. The display on the remote control turns off a short while after you push **■**. For more details about the display on the remote control, see “To know the track name and playing time.”

To	Do this (Beeps in the earphones)
Pause	Press <b>⏸</b> on the remote control. (Continuous short beeps) <p>Press <b>⏸</b> on the remote control again to resume play.*</p>
Find the beginning of the current track	Press <b>◀◀</b> once. Press the control towards <b>◀◀</b> on the remote control. (Three short beeps)
Find the beginning of the previous tracks	Press <b>◀◀</b> repeatedly. Press the control towards <b>◀◀</b> on the remote control repeatedly. (Continuous three short beeps)
Find the beginning of the next track	Press <b>▶▶</b> <b>▶</b> once. Press the control towards <b>▶ / ▶▶</b> on the remote control. (Two short beeps)
Go backwards while playing*	Hold down <b>◀◀</b> . Press and hold the control towards <b>◀◀</b> on the remote control.
Go forward while playing*	Hold down <b>▶▶</b> <b>▶</b> . Press and hold the control towards <b>▶ / ▶▶</b> on the remote control.
Remove the MD	Press <b>■</b> , and then slip open the loading shutter.**

\* When you press **◀◀** or **▶▶** **▶** on the player during pause (**⏸**), the player resumes playback. If you hold down **◀◀** or **▶▶** **▶** on the player (or press and hold the control towards **◀◀** or **▶ / ▶▶** on the remote control) during pause (**⏸**), you can fast forward/rewind without listening to the playback sound.

\*\* Once you slip open the loading shutter, the point to start playback changes to the beginning of the first track.

## ►Various ways of playback

### Playing tracks repeatedly C

Press PLAYMODE on the remote control while the player is playing an MD. Each time you press PLAYMODE, the play mode indication changes as follows:

(none) (normal play)
All the tracks are played once.
↓
“*∞*” (all repeat)
All the tracks are played repeatedly.
↓
“*∞* 1” (single repeat)
A single track is played repeatedly.
↓
“*∞* SHUF” (shuffle repeat)
All the tracks are played repeatedly in random order.

### To know the track name and playing time D

Press DISPLAY on the remote control while the player is playing an MD. Each time you press DISPLAY, the elapsed time of the current track and the track number, the track name and number, and the disc name and the number of tracks recorded on the MD appear.

### To adjust the sound quality (DIGITAL SOUND PRESET) E

You can make adjustments to the sound quality to suit your taste, and then store two sets of these adjustments.

- Slide DIGITAL SOUND PRESET to select 1 or 2.
- During playback, hold down DISPLAY or PLAYMODE until the indicator shown in the English text (see DIGITAL SOUND PRESET **E**) appears on the remote control. Press DISPLAY to select bass, and PLAYMODE to select treble.
- Press **▶ / ▶▶** or **◀◀** on the remote repeatedly to adjust the bass or the treble. If you hold down PLAYMODE while in bass-setting mode, the mode will change to treble-setting mode. If you hold down DISPLAY while in treble-setting mode, the mode will change to bass-setting mode. The sound can be adjusted in 8 steps (−4, −3, ...±0...+2, +3).
- Press DISPLAY or PLAYMODE. The sound settings are saved and the playback display appears again.

### Factory settings of the MD player

Factory settings are the followings:

- DIGITAL SOUND PRESET 1: bass +1, treble ±0
- DIGITAL SOUND PRESET 2: bass +3, treble ±0

- Notes**
  - Settings can also be changed while playback is momentarily paused (**⏸**).
  - Settings cannot be changed through the operation buttons on the player.
  - Settings cannot be changed while the DIGITAL SOUND PRESET swich is set to OFF.

### To protect your hearing (AVLS) F

Set AVLS (Automatic Volume Limiter System) to LIMIT. The volume is kept at a moderate level, even if you try to turn the volume above the limited level.

**To cancel the AVLS function**
Set AVLS to NORM to cancel the AVLS function.

### To lock the controls (HOLD) G

On the player, slide HOLD in the direction of the ➡ to lock the controls of the player. On the remote control, slide HOLD in the direction of the ➡ to lock the controls of the remote control.

## ►Power Sources

### When to recharge or replace the battery H

The battery should power consecutive playback for about 37 hours before you need to replace it. If you use both a dry battery and a rechargeable battery (consecutively), the total playback time should be about 64 hours.

When the battery indication changes to ◻, the rechargeable battery or the dry battery is weak. Recharge the rechargeable battery or replace the dry battery. When the battery is exhausted, “LOW BATT” flashes in the display on the remote control and the power goes off.

**Note**
The battery life may be shorter depending on operating conditions, the surrounding temperature, and the battery type.

## Using house current I

#### Using the charging stand

As long as the charging stands AC power cord is plugged into a wall outlet, you can operate the player, even if the rechargeable battery is not inserted.

- Connect the supplied AC power adaptor to the DC IN 3V jack on the charging stand.
- Place the player into the charging stand.
- Connect the AC power adaptor to an wall outlet.

**Notes**

- If the terminals on the stand are not firmly connected to the terminals on the player, player operation or battery charging will not be possible.
- For details about charging the battery, see “Getting started.”

## To connect a car stereo J

By using the car connecting pack (not supplied) and car battery cord (not supplied), you can listen to the player inside of a car, even without the rechargeable battery.

- Place the player into the charging stand. Make sure the terminals on the stand are firmly connected to the player. Secure the player by turning the screw on the bottom of the charging stand clockwise.
- Connect the car connecting pack and the remote control.
- Connect the car battery cord to the DC IN 3V jack on the charging stand.
- Insert the end of the car battery cord into the cigarette lighter socket.

**Notes**

- Do not leave the player and the charging stand in the car.
- Do not leave the car battery cord connected.
- Do not use the earphones while driving.

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