

aiwa



MINIDISC PLAYER

AM-HX30

OPERATING INSTRUCTIONS

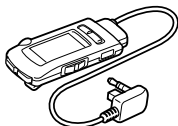
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MODE D'EMPLOI

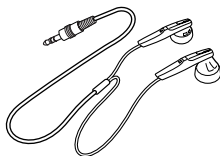
WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

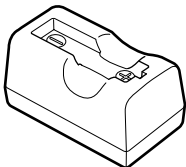
①



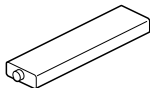
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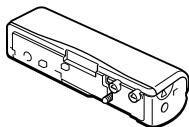
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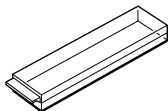
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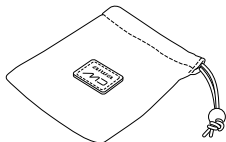
⑤



⑥



⑦

**CAUTION**

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This minidisc player is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT label is located on the exterior.

CLASS 1 LASER PRODUCT
 KLASSE 1 LASER PRODUKT
 LUOKAN 1 LASER LAITE
 KLASS 1 LASER APPARAT

CAUTION!

Invisible laser radiation when open and interlocks defeated. Avoid exposure to beam.

Accessories

Following accessories are supplied with this unit. Check them before use.

- ① LCD remote control
- ② Stereo headphones
- ③ Battery charger
- ④ Rechargeable battery
- ⑤ Battery case
- ⑥ Battery carrying case
- ⑦ Carrying case

PRECAUTIONS	4
USING ON THE RECHARGEABLE BATTERY	10
USING ON AC HOUSE CURRENT	12
USING ON DRY CELL BATTERY	14
PREPARATIONS	16
PLAYBACK	
Basic operation	18
Other playback modes	20
Programmed play	22
To change the display	24
Title search function	26
OTHER SETTINGS	
To cancel the beep sound (Signal sound function)	28
To limit the maximum volume level (Ear guard function)	28
To adjust the contrast of the display ...	30
MD GUIDE MESSAGES	32
TROUBLESHOOTING GUIDE	34
SPECIFICATIONS	36

PRECAUTIONS

To maintain good performance

- Do not use the unit in places which are extremely hot, cold, dusty or humid. In particular, do not use or keep the unit in the following places.
 - in a high humidity area such as a bathroom
 - near a heater
 - in an area exposed to direct sunlight (Example: inside a parked car, where it can become extremely hot)
 - where it is very dusty or sandy
 - near sources of strong magnetism, such as televisions, speakers, or magnets
 - where there is a lot of movement or vibration, such as on a car dashboard or unstable shelf

For safety

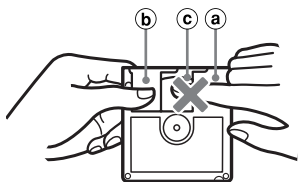
- Do not attempt to disassemble the unit. Laser rays from the optical pickup are dangerous to the eyes.
- Make sure that pins or other foreign objects do not get inside the unit.
- Take care not to drop the unit or subject it to strong shocks.
- To keep dust from the pickup lens, keep the disc holder closed after use. Never touch the lens.
- If you hear no sound when playing a disc, DO NOT turn the volume up too high since the music could suddenly start. Turn the volume to the lowest level before starting playback and slowly turn it up to the desired level.

Note on listening with the headphones

- Listen at a moderate volume to avoid hearing damage.
- Do not wear the headphones while driving or cycling. It may create a traffic hazard.
- You should use extreme caution or temporarily discontinue use in potentially hazardous situations, such as walking, jogging, etc.
- Wear them properly; L is left, R is right.
- The in-ear type headphones should be worn with the longer cord behind your neck.

CAUTION

Listening to headphone stereo at full power for extended periods of time can result in hearing damage.



PRECAUTIONS

Note on condensation

If the unit is suddenly moved from a cold place to a warm one, it may result in condensation on the pickup lens causing malfunction or playback difficulties.

Should this occur, leave the unit for a few hours, then try playback again.

Note on handling MD → **A**

Since MDs come in a cartridge (a) which protects the discs inside from fingerprints and dust, you do not have to be overly careful when handling them.

However, soiled or damaged cartridges can lead to malfunctions in the unit.

Observe the following tips when handling MDs.

- Keep a cartridge in the attached case.
- Do not open the shutter (b) of the cartridge to touch the disc (c) directly. If the disc inside becomes soiled, it is very difficult to clean. The cartridge can also be damaged.
- Close the shutter if it opens while handling or ejecting a disc. Otherwise dust may enter or a disc may become scratched.

To clean the cabinet

Use a soft cloth lightly moistened with a detergent solution.

Do not use strong solvents such as alcohol, benzine or thinner.

USING ON THE RECHARGEABLE BATTERY

When using the rechargeable battery for the first time, charge it for about 8 hours.

1 Insert the rechargeable battery into the battery charger.





2 Recharge the battery.


Plug the battery charger into a wall outlet. Recharging fully used battery takes about 8 hours.

After recharging, remove the battery from the battery charger and disconnect the battery charger from the wall outlet.

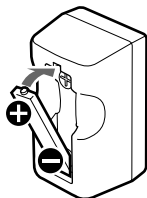
3 Insert the rechargeable battery with the ⊕ and ⊖ marks correctly aligned.

Time to recharge the battery

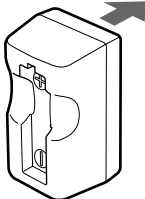
The battery indicator changes from  to  to  based on the remaining power in the battery. Recharge the battery when the  lights.

If the unit remains in use after  lights, "LOW BATT" appears and the operation will stop.

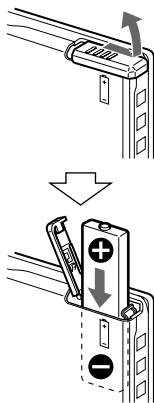
1



2



3



Note on the rechargeable battery

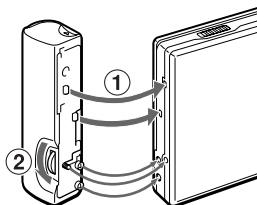
- Use only the supplied charger to recharge the battery.
- Do not carry the battery in a pocket or handbag together with metal objects such as pendants or key holders. Use the supplied battery carrying case when carrying the rechargeable battery.
- Do not short-circuit the terminals.
- Do not disassemble the battery, heat it or put it in water.
- The supplied rechargeable battery can be recharged approximately 300 times.

***USING ON AC HOUSE
CURRENT***

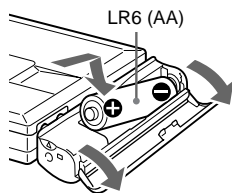
Contact your Aiwa dealer and purchase an AC adaptor.

Connect the plug of AC adaptor to the DC 1.5 V jack on the battery case and connect the AC adaptor to a wall outlet.

1



2



USING ON DRY CELL BATTERY

- 1 Attach the battery case.
- 2 Insert an LR6 (size AA) alkaline battery with the \oplus and \ominus marks correctly aligned.

Battery replacement

The battery indicator changes from to to to based on the remaining power of the battery. Replace the battery when the lights.

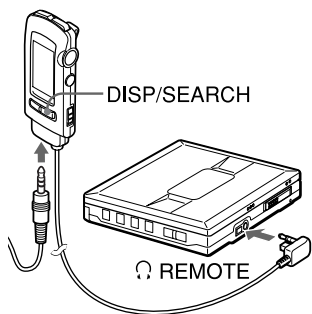
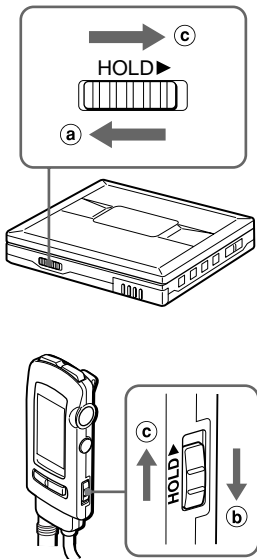
If the unit remains in use after lights, "LOW BATT" appears and the operation will stop.

For prolonged operation

Insert the fully charged rechargeable battery in the unit and attach the battery case with a new LR6 (size AA) alkaline battery inside. Playback of approx. 21 hours is possible.

Note on dry cell battery


- Make sure that \oplus and \ominus marks correctly aligned.
- To prevent the risk of electrolyte leakage or explosions, never recharge the battery, apply heat to it, or take it apart.
- When not using the battery, remove it to prevent needless battery wear.
- If liquid leaks from the battery, wipe thoroughly to remove.

A**B**

PREPARATIONS

English

Connecting the headphones → **A**

Connect the supplied headphones to the remote control and connect the remote control to the  REMOTE jack of the main unit.

- To turn on the backlight of the display on the remote control, press DISP/SEARCH.

HOLD switches → **B**

When operating with the main unit, release HOLD on the main unit. → **a**

When operating with the remote control, release HOLD on the remote control. → **b**

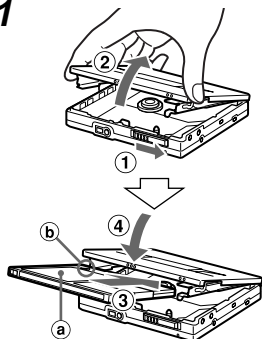
When not using the unit, set both to the HOLD position. → **c**

Accidentally pressed buttons will not function.

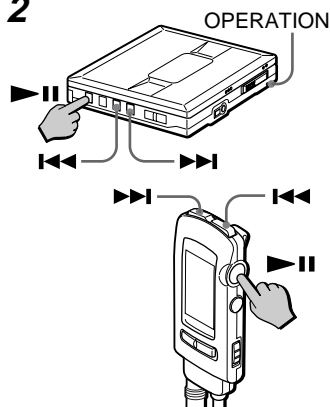
If buttons on the main unit are pressed when the HOLD switch is set to the HOLD position, "HOLD" appears.

PLAYBACK

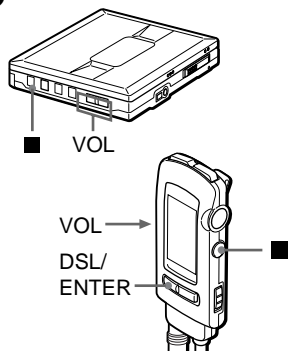
1



2



3

*Basic operation*

- 1 Insert a disc with the label side (a) up and in the direction of the arrow (b).
- 2 Press **▶||**.
- 3 Adjust the volume.

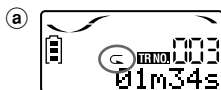
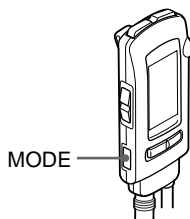
To stop playback, press **■**. When playing the disc the next time, playback will start from that point.

Basic operation	Button to press	Signal sound
To pause	▶ during playback	bip, bip, bip, bip ••••
To resume	▶ while in pause mode	bip
To go back to the beginning of a previous track	◀◀ briefly	bipbipbip
To go to the beginning of a succeeding track	▶▶ briefly	bipbip
To search for a desired point	Keep ◀◀ or ▶▶ pressed	

To adjust the sound

Press DSL/ENTER repeatedly.

- DSL 1 : Low frequency is emphasized.
 DSL 2 : Low and high frequencies are more emphasized than in DSL 1.
 DSL OFF: Normal sound



Other playback modes

This unit has 4 play modes other than normal play.

Press MODE repeatedly during playback to select the desired play mode.

Each time the button is pressed, the play mode changes in the following order.

(a) All-repeat play

All tracks are played repeatedly.



(b) One-track repeat play

Current track is played repeatedly.



(c) Random play

All tracks are played in random order.



(d) Programmed play

The programmed tracks are played in programmed order.

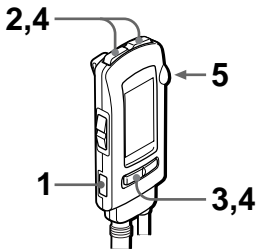
To program, please refer to page 22.



Normal play

Note

- The selected playback mode does not change when the power is turned off.
- The play mode changes to normal play after:
 - opening the disc holder
 - removing the battery



Programmed play

- You can memorize up to 25 tracks in a desired order.

Operate during playback or in playback pause mode.

- 1 Press MODE repeatedly until "PRGM" is displayed.**
- 2 Press ◀◀ or ▶▶ to select a track.**
- 3 Press DSL/ENTER to program the track.**
- 4 Repeat steps 2 and 3 to program other tracks.**
- 5 Press ▶|| to start programmed play.**

To cancel the program

Press MODE repeatedly until "PRGM" disappears.

You can cancel the program by opening the disc holder or removing the battery.

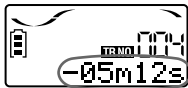
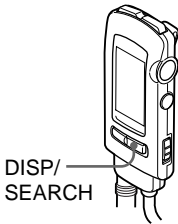
If "PRGM FULL" appears

25 tracks are already programmed.

You cannot add any track to the program.

Note

You cannot go back to a previous track by keeping ◀◀ pressed during programmed play.



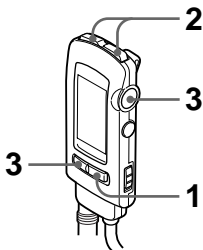
To change the display

Press DISP/SEARCH repeatedly during playback. Each time the button is pressed, the display changes in the following order.

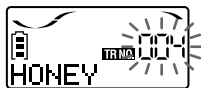
- (a) Title of current track
- (b) Remaining time of current track
- (c) Disc name
- (d) Elapsed time of the current track

Note

- The display changes to ① when playback is stopped.
- “No Title” or “No Name” appears when playing a disc in which no data is registered.



1



Title search function

- You can search for a desired track confirming the title during playback.

Operate during playback.

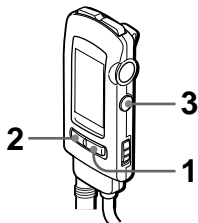
- 1 Keep **DISP/SEARCH** pressed for 3 seconds.
 - 2 While the track number flashes, press **◀◀** or **▶▶** repeatedly until the desired track title is displayed.
 - 3 Press **▶||** or **DSL/ENTER** to start playback.
- You can start this operation in playback pause mode.
In this case, press **▶||** again after step 3 to resume playback.

Note

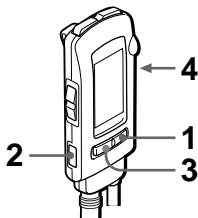
- Title search function is not activated during random play and program play.
- If the flashing stops during operation, repeat the procedure from the beginning.

OTHER SETTINGS

A



B



To cancel the beep sound (Signal sound function) → A

Beep sounds are heard when you press an operation button. You can cancel this beep sound.

Operate in stop mode.

1 Keep **DISP/SEARCH** pressed for about 5 seconds.

"BEEP ON" is displayed.

2 Press **DSL/ENTER**.

"BEEP OFF" is displayed and beep sounds are canceled.

3 Press **■**.

To resume the beep sound

Display "BEEP ON" in step 2.

To limit the maximum volume level (Ear guard function) → B

You can set the volume level from 0 to 20. When you set the Ear guard function, the maximum volume will be limited at 12.

Operate in stop mode.

1 Keep **DISP/SEARCH** pressed for about 5 seconds.

"BEEP ON" is displayed.

2 Press **MODE**.

"EARG OFF" is displayed.

3 Press **DSL/ENTER**.

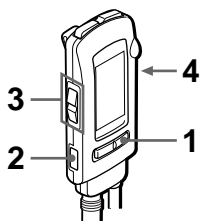
"EARG ON" is displayed and the Ear guard function is set.

"EARGUARD!" is displayed when setting the volume over the level of 12.

4 Press **■**.

To cancel the Ear guard function

Display "EARG OFF" in step 3.

*To adjust the contrast of the display*→ **C**

You can set the contrast of the display from 0 to 15.

Operate in stop mode.

1 Keep DISP/SEARCH pressed for 5 seconds.

"BEEP ON" is displayed.

2 Press MODE twice.

"CONTRAST" is displayed.

3 Press VOL + or - to adjust the contrast of the display.

4 Press ■.

BLANK DISC

- Nothing is recorded on the disc.

DISC ERROR

- The disc is damaged by scratches.
- The TOC (Table of contents) data is not registered correctly.

EAR GUARD !

- You cannot increase the volume anymore by the EAR GUARD function.

HOLD

- The HOLD switch is set to HOLD position.

NO DISC

- No disc is inside the unit.

LOW BATT

- The battery wears out.

OPEN

- The disc holder is not closed.

PRGM FULL

- 25 tracks are already programmed and no track can be added.

If the unit fails to perform as described in these Operating Instructions, check the following guide.

Power does not turn on.

- Insert the batteries correctly.
- Recharge the rechargeable battery or replace the dry cell battery.

Operation does not start.

- Close the disc holder completely.
- Insert a disc.
- Release the HOLD switch.
- Connect the remote control completely.
- Remove the battery and leave the unit for about 30 seconds.

Then, insert the battery and try playback again.

The sound noisy.

- If the unit is close to a magnetic object, keep the unit further away from it.

Sound mutes.

- Place the unit on a stable surface with no vibration.

Sound cannot be heard from the headphones.

- Connect the headphones firmly.

Wrong or no display appears on the remote control.

- Connect the remote control firmly.

Main unit

Playback system

MiniDisc digital audio system

Laser pickup

Semiconductor laser

Sampling Frequency

44.1 kHz

Number of channels

Stereo: 2 channels

Monaural: 1 channel

D/A converter

1-bit

Frequency response

40 – 20,000 Hz ± 4 dB

20 – 20,000 Hz ± 1 dB (10 k Ω)

Wow and Flutter

Below measurable limit

($\pm 0.001\%$ W.PEAK)

Output

Ⓜ REMOTE jack

Maximum output level

10 mW +10 mW (16 ohms)

Power requirements

DC 1.2 V using the supplied Ni-MH rechargeable battery MHB-901

DC 1.5 V using an LR6 (size AA) dry cell battery

AC house current using an optional AC adaptor

Battery life

Using the supplied rechargeable battery

Approx. 8 hours

Using an LR6 (size AA) dry cell battery

Approx. 9 hours

Using the supplied rechargeable battery and

an LR6 (size AA) dry cell battery

Approx. 21 hours

Dimensions

Approx. 86.8 (W) \times 16.3 (H) \times

77.6 (D) mm

(3 $\frac{1}{8}$ \times $\frac{25}{32}$ \times 3 $\frac{7}{8}$ in.)

Weight

Approx. 132 g, 6.5 oz

including the rechargeable battery

<Battery charger RB-M02 E>

Rated voltage

AC 230 V, 50 Hz

<Battery charger RB-M02 K>

Rated voltage

AC 240 V, 50 Hz

Supplied headphones HP-M031

Type: In-ear type

Impedance: 16 ohms

Sensitivity: 94 dB/mW

Recommended commercially available headphones

Type: In-ear type/Vertical type/

Headband type

Impedance: 16 – 32 ohms

Sensitivity: 91 – 99 dB/mW

- The specifications and external appearance of this unit are subject to change without notice.
- US and foreign patents licensed from Dolby Laboratories Licensing Corporation.

AIWA CO.,LTD.

8Z-HM4-907-01
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