

**SONY®**

3-223-667-12(1)

# ***FM/AM Portable MiniDisc Recorder***

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Operating Instructions



**MDLP**



***MZ-G750/G750PC/G750DPC***

## **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.**

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

## **Caution**

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

Listening for many hours at maximum volume may damage your hearing.

**CAUTION — INVISIBLE  
LASER RADIATION WHEN  
OPEN**

**AVOID EXPOSURE TO  
BEAM**

## **Information**

IN NO EVENT SHALL SELLER BE LIABLE FOR ANY DIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE, OR LOSSES OR EXPENSES RESULTING FROM ANY DEFECTIVE PRODUCT OR THE USE OF ANY PRODUCT.

### ***For customers in the USA***

#### ***Owner's Record***

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

Model No. \_\_\_\_\_

Serial No. \_\_\_\_\_

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

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

## **RECYCLING NICKEL-CADMIUM BATTERIES**

Nickel-Cadmium batteries are recyclable. You can help preserve our environment by returning your unwanted batteries to your nearest point for collection, recycling or proper disposal.

**Note:** In some areas the disposal of Nickel-Cadmium batteries in household or business trash may be prohibited.

RBRC (Rechargeable Battery Recycling Corporation) advises you about spent battery collection by the following phone number.

**Call toll free number: 1-800-822-8837 (United States and Canada only)**

**Caution:** Do not handle damaged or leaking Nickel-Cadmium batteries.



### ***For Customers in Australia***


If the supply cord of the AC power adaptor is damaged, the AC power adaptor must be returned to the manufacturer or his agent for the cord to be replaced.

Certain countries may regulate disposal of the battery used to power this product.

Please consult with your local authority.



The CE mark on the unit is valid only for products marketed in the European Union.

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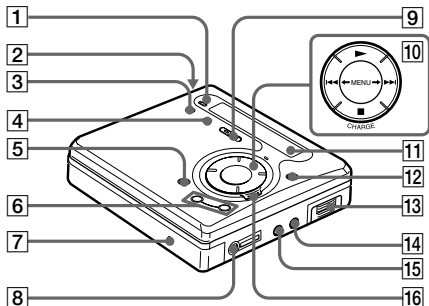
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# Looking at the controls

See pages in ( ) for more details.

## The recorder



1 REC MODE button (28)

2 OPEN button (13)


3 T MARK button (52)

4 END SEARCH button  
(16)(56)

5 **||** (pause) button  
(17)(20)(33)(56)

6 VOL +/- button (19)(56)

7 DC IN 3V jack (12)(15)

8  (headphones) jack  
(13)(43)

9 REC (record) switch  
(16)(27)

10 **←MENU→** button  
(30)(37)(50)

**▶** (play) button (16)(19)

**◀◀/▶▶** (search/AMS)  
button (17)(20)(53)(56)

**■** (stop)/CHARGE button  
(12)(16)(19)(29)(50)

11 Display window (30)(37)

12 ENTER button (29)(37)(49)

13 Battery compartment (12)

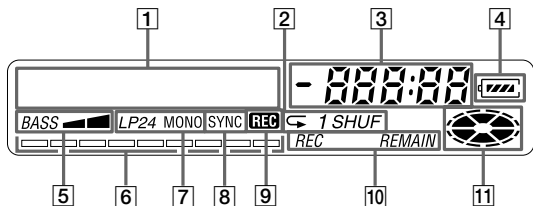
14 LINE IN (OPTICAL) jack  
(15)(27)

15 MIC (PLUG IN POWER)  
jack (32)

16 HOLD switch (13)(42)

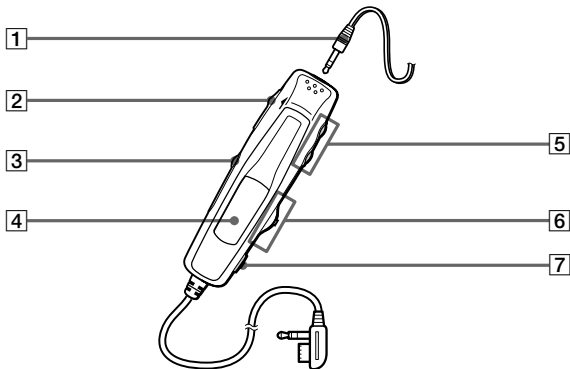


## The display window



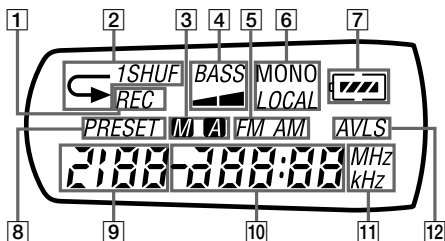
- 1** Character information display (35)(40)  
Displays the disc and track names, error messages, track numbers, etc.
- 2** Play mode indication (37)  
Shows the play mode of the MD.
- 3** Time display
- 4** Battery indication (59)  
Shows approximate battery condition.
- 5** Mega bass indication (39).
- 6** Level meter (34)  
Shows the volume of the MD being played or recorded.
- 7** Recording mode (LP2/LP4/MONO) indication (28)
- 8** SYNC (synchro-recording) indication
- 9** REC indication (16)  
Lights up while recording. When flashing, the recorder is in record standby mode.
- 10** REC REMAIN/REMAIN (remaining time/tracks) indication (35)(40)  
Lights up along with the remaining time of the track, the remaining time of the MD, or the remaining number of tracks.
- 11** Disc indication  
Shows that the disc is rotating for recording, playing or editing an MD.

## The remote control with built-in digital tuner



- |  |  |
|--|--|
| <b>1</b> Headphones/earphones<br>Can be replaced with optional headphones/earphones. | <b>5</b> VOL +/- buttons (19)(22)  |
| <b>2</b> HOLD switch (13)(42)<br>Slide to lock the controls of the remote control.   | <b>6</b> Jog lever<br>■ (pause)/MODE (20)(45)<br>▶▶▶▶ (AMS/search, play)/F+ button (19)(22)(46)<br>◀◀◀◀ (AMS/search)/F- button(20)(22)(46) |
| <b>3</b> RADIO ON/BAND button (22)(45)<br>FM MODE button (23)                        | <b>7</b> ■ (stop)/RADIO OFF button (19)(23)(48)  |
| <b>4</b> Display window (45)   |  |

## The display window of the remote control

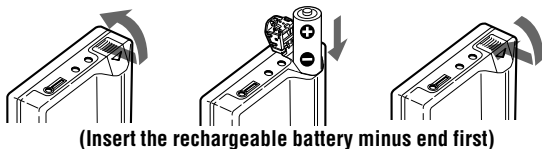


- 1 REC indication (16)  
Lights up while recording.  
When flashing, the recorder is in record standby mode.
- 2 Play mode indication (37)  
Shows the play mode of the MD.
- 3 Manual/Auto indication
- 4 Mega Bass indication (39)
- 5 FM/AM indication (45)
- 6 MONO (monaural)/LOCAL indication
- 7 Battery indication
- 8 PRESET indication (45)  
Lights up while preset radio station is turned on.
- 9 Number display  
Displays the preset numbers, track numbers, etc.
- 10 Time/Frequency display
- 11 MHz/kHz indication (45)  
MHz lights up when FM station is turned on and kHz lights up when AM station is turned on.
- 12 AVLS indication (41)

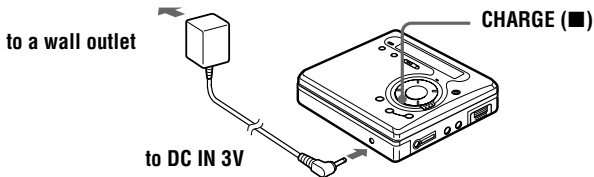
# Getting started!


Charge the rechargeable battery before using. Even if the rechargeable battery is not charged, you can use the recorder as long as the AC power adaptor is connected.

## 1 Insert the rechargeable battery.



## 2 Charging the rechargeable battery.

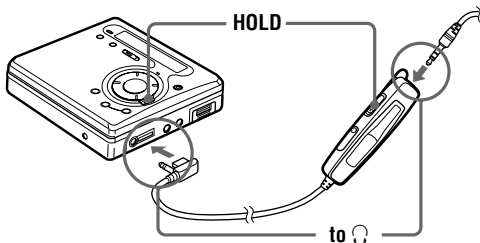




- ① Connect the supplied AC power adaptor.
- ② Press CHARGE (■).  
“Charging” flashes,  appears in the display, and charging starts. When charging is completed, the battery indication disappears. Full charging of a completely discharged rechargeable battery takes about 3 hours. To cancel charging, press CHARGE (■).
- ③ Disconnect the supplied AC power adaptor.



**3**

## Make connections and unlock the control.

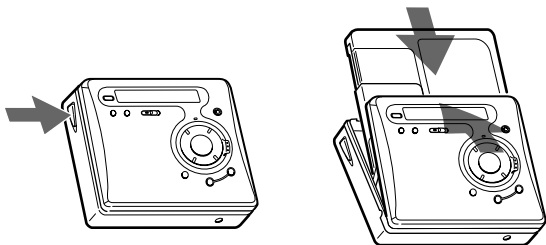


- ① Connect the supplied headphones/earphones with the remote control to .
- ② Slide HOLD in the opposite direction of the arrow () to unlock the controls.

**4**

## Insert an MD.

(Use a recordable MD for recording.)



- ① Press OPEN to open the lid.
- ② Insert an MD with the label side facing front, and press the lid down to close.

## Using on a dry battery

Insert one LR6 (size AA) alkaline dry battery (not supplied) instead of the rechargeable battery.

### Notes

- If you press CHARGE (■) immediately after charging has completed, charging will begin again. If this happens, press CHARGE (■) again to stop the charging operation since the battery is already fully charged.
- Charging stops when you try to operate the recorder during charging.
- Be sure to use the supplied AC power adaptor.
- Charging time may vary depending on the battery condition.
- When a rechargeable battery is charged for the first time or charged after a long period of disuse, battery life may be shorter than usual. Repeat discharging and recharging a few times. The battery life should return to normal.
- When the battery life of a fully charged rechargeable battery becomes about half the normal life, replace it.
- When carrying the rechargeable battery, keep it in the supplied battery carrying case. It is dangerous to carry the battery out of the case in your pocket or a bag together with metallic objects such as key rings, as this may cause a short circuit.
- Remove the rechargeable battery from the recorder when it is not to be used for a long time.

# Recording an MD right away!

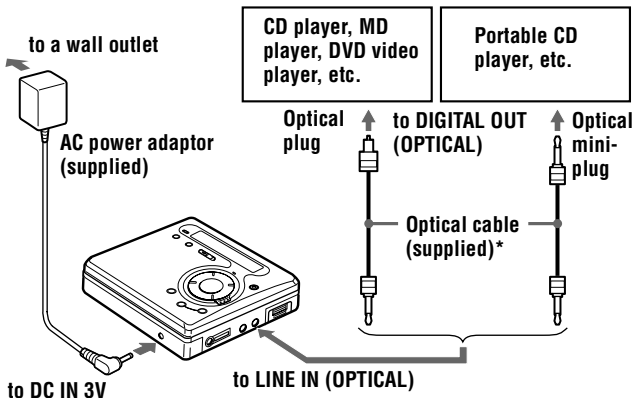
Connect to a digital source using an optical cable (supplied) to make digital recordings. Digital recording is possible even from digital equipment with different sampling rates, such as a DAT deck or a BS tuner, using the built-in sampling rate converter. To record from an analog source, see “Recording with analog input (line cable required)” (page 27). To record from an MD, see “Note on digital recording” (page 63). Using the AC power adaptor (supplied) is recommended for recording.

**Note that you cannot record a radio broadcast that is being received on the remote control.**

1

## Make connections.

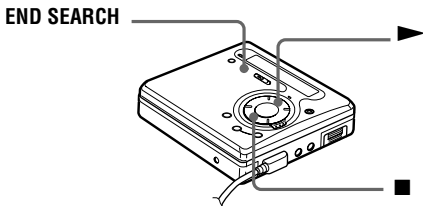
(Insert the cables firmly and completely into the appropriate jacks.)



\* The supplied cable consists of one or the other of these cables. The shape of the plugs on the supplied cable may differ, depending on where the recorder was purchased.

## 2

## Placing the recorder into recording-standby mode.



- ① Press **▶**, and then press **■**.

The display window on the recorder and the remote control light up.

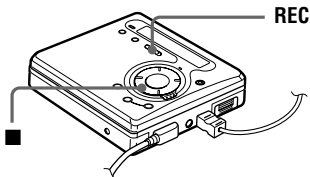
- ② Press **END SEARCH**.

The recorder goes to the end of the previously recorded material.

To search for another place, press **▶**, **▶▶**, or **◀◀**.

## 3

## Record an MD.



- ① Press and slide **REC** to the right.

REC indication lights up in the display and recording starts.

- ② Play the source you want to record.



## To stop recording, press ■.

After you press ■, the recorder will automatically turn off after:

- about 5 minutes when using AC power adaptor.
- about 10 seconds when using batteries.

### Notes

- “Data Save” or “TOC Edit” flashes while data of the recording (the track’s start and end points, etc.) is being recorded. Do not move or jog the recorder or disconnect the power source while the indication is flashing in the display.
- The lid does not open until “TOC Edit” disappears in the display.

To	Press
Record from the end of the previous recording <sup>1)</sup>	END SEARCH, and then press and slide REC.
Record partway through the previous recording <sup>1)</sup>	▶▶, ▶▶▶ or ◀◀◀ to find the start point of recording and press ■ to stop. Then press and slide REC.
Pause	<sup>2)</sup> Press    again to resume recording.
Remove the MD	■ and open the lid. <sup>3)</sup> (The lid does not open while “TOC Edit” flashing in the display.)

<sup>1)</sup> By setting “REC-Posi” to “From End”, recording operations will always start from the end of the previously recorded material (page 31).

<sup>2)</sup> A track mark is added at the point where you press || again to resume recording while pausing; thus the remainder of the track will be counted as a new track.

<sup>3)</sup> If you open the lid and re-insert the same disc while “REC-Posi” is set to “From Here,” recording will continue from the point where it last ended. If you insert another disc, recording will start from the beginning of the disc. Check the point to start recording on the display.

### If the recording does not start

- Make sure the recorder is not locked (page 42).
- Make sure the MD is not record-protected (page 62).
- Premastered MDs cannot be recorded over.


### For models supplied with the AC plug adaptor

If the AC power adaptor does not fit the wall outlet, use the AC plug adaptor.

## Notes

- If the power supply is disrupted (i.e. the battery is removed or becomes exhausted or the AC power adaptor is disconnected) during a recording or editing operation, or while “TOC Edit” appears in the display, then it will not be possible to open the lid until power is restored.
  - You can make a digital recording only from an optical type output.
  - When recording from a portable CD player, set the CD player to pause, and then do the recording procedure on the recorder.
  - Note the following when recording from a portable CD player:
    - Some portable CD players may not be capable of digital out unless powered by the AC power.
    - Connect the AC power adaptor to the portable CD player and use it on AC power as the power source.
    - Disable any anti-skip function (such as ESP\*) on the portable CD player.
- \* Electronic Shock Protection



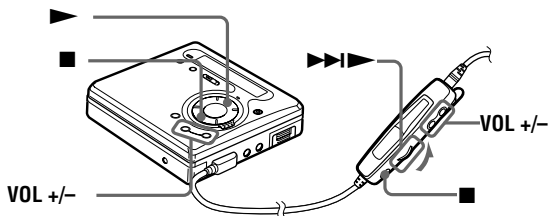
- **LINE IN (OPTICAL)** jack is for both digital and analog input. The recorder automatically recognizes the type of line cable and switches to digital or analog input.
- The level of the recorded sound is adjusted automatically.
- You can monitor the sound during recording. Connect the supplied headphones/earphones with remote control to  and adjust the volume by pressing VOL +/- . This does not affect the recording level.

# Playing an MD right away!

To use the recorder on a rechargeable battery or dry battery, see “Power sources” (page 58).

When you operate the recorder with the supplied remote control, use the buttons and control shown in parentheses.

## 1 Play an MD.



- ① Press ▶ (flip the jog lever towards ▶▶▶).

A short beep sounds in the headphones/earphones when you operate on the remote control.

- ② Press VOL +/- to adjust the volume.

The volume will be shown in the display.

### To stop play, press ■.

A long beep sounds in the headphones/earphones when you operate on the remote control.

Playback starts from the point you last stopped playing.

After you press ■, the recorder will automatically turn off after:

- about 5 minutes when using AC power adaptor.
- about 10 seconds when using batteries.

To	Press (Beeps in the headphones/earphones <sup>2)</sup> )
Find the beginning of the current track	⏮ once (Flip the jog lever towards ⏮). (Three short beeps)
Find the beginning of the next track	⏭ once (Flip the jog lever towards ⏭). (Two short beeps)
Pause	⏸ (Press ⏸ on the jog lever). (Continuous short beeps) Press ⏸ again to resume play.
Go backwards while playing <sup>1)</sup>	Press and hold ⏮ (Flip and hold the jog lever towards ⏮).
Go forward while playing <sup>1)</sup>	Press and hold ⏭ (Flip and hold the jog lever towards ⏭).
Remove the MD	■ (a long beep) and open the lid. <sup>3)</sup>

<sup>1)</sup> To go backward or forward quickly without listening, press ⏸ and press and hold ⏮ or ⏭ (flip and hold the the jog lever towards ⏮ or ⏭ on the remote control).

<sup>2)</sup> You can turn off the beep sound (page 43).

<sup>3)</sup> Once you open the lid, the point to start play will change to the beginning of the first track.

### **G-PROTECTION function**

The G-PROTECTION function has been developed to provide excellent protection against sound skipping during many active uses. This function provides a higher level of shock protection during playback than the traditional one.

### **If the play does not start**

Make sure the recorder is not locked (page 42).



Playback will switch automatically to match the recording mode of the material (stereo, LP2, LP4, or monaural).

### **Notes**

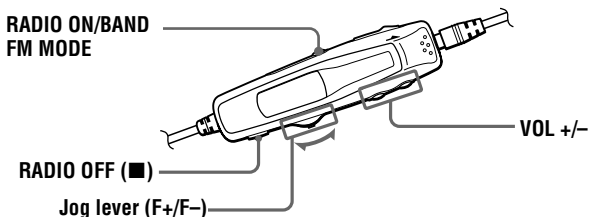
- To prevent recorder malfunction, do not use a remote control that was supplied with another Sony portable MD model.
- Sound may skip if:
  - the recorder receives stronger continuous shock than expected.
  - a dirty or scratched MiniDisc is played.

# Listening to the radio

You can listen to the radio through the built-in digital tuner in the remote control.

**You cannot use the recorder to record a radio broadcast that is being received on the remote control.**

## 1 Turn on the radio.



- 1 Press RADIO ON/BAND.**  
The radio turns on.  
The frequency and “FM” or “AM” appears in the display.
- 2 Press RADIO ON/BAND to change the band (“FM” or “AM”).**
- 3 Flip the jog lever towards F+ or F- repeatedly to tune in the desired radio station.**
- 4 Press VOL +/- to adjust the volume.**

## **To turn off the radio**

Press RADIO OFF (■).

## **To tune in a station quickly**

In step 3, flip and hold the jog lever towards F+ or F- until the frequency indication begins to change. The remote control automatically scans the radio frequencies and stops when it finds a clear station. A short beep will sound in the headphones/earphones and the radio station begins playing.

## **To improve broadcast reception**

- For AM: Orient the built-in AM antenna inside the remote control horizontally to obtain optimum AM reception.
- For FM: Extend the headphones/earphones cord, which act as the FM antenna.

If the reception is still not good, press and hold FM MODE (RADIO ON/BAND) until “MONO”(monaural) or “LOCAL” appears in the display for best reception.

## **When you cannot operate the radio**

Make sure the remote control is not locked (page 42).

### **Notes**

- The radio will not operate if the remote control is not connected to the recorder.
- Do not place the remote control close to another electronic device, such as the recorder itself, another radio, a TV, or a computer, as this may cause noise in the reception.
- Playback or recording stops when you use the radio.
- Use VOL +/- on the remote control to adjust the radio volume.

## ***Various ways of recording***

Check menu items in the display window on the recorder, since they are displayed only there.

---

### **Two ways of connecting to a sound source**

The input jack of this recorder works as both digital and analog input jacks. Connect the recorder to a CD player or a cassette recorder using either digital (optical) input or analog (line) input. To record, see “Recording an MD right away!” (page 15) to record using digital (optical) input, and “Recording with analog input (line cable required)” (page 27) to record using analog (line) input.

### **Difference between digital (optical) and analog (line) inputs**

<b>Difference</b>	<b>Digital (optical) input</b>	<b>Analog (line) input</b>
Connectable source	Equipment with a digital (optical) output jack	Equipment with an analog (line) output jack
Usable cord	Optical cable (with an optical or an optical-mini plug) (page 15)	Line cable (with 2 phono plugs or a stereo-mini plug)
Signal from the source	Digital	Analog Even when a digital source (such as a CD) is connected, the signal sent to the recorder is analog.



Difference	Digital (optical) input	Analog (line) input
Recorded track numbers	<p>Marked (copied) automatically</p> <ul style="list-style-type: none"> <li>• at the same positions as the source (when the sound source is a CD or an MD).</li> <li>• after more than 2 seconds of blank or low-level segment (with a sound source other than CD or MD).</li> <li>• when the recorder is paused during synchro-recording (the recorder pauses automatically when it encounters a section with no audio signal for 3 seconds or more).</li> </ul> <p>You can erase unnecessary marks after recording. (“Erasing a track mark”, page 53).</p>	<p>Marked automatically</p> <ul style="list-style-type: none"> <li>• after more than 2 seconds of blank or low-level segment.</li> <li>• when the recorder is paused while recording.</li> </ul> <p>You can erase unnecessary marks after recording (“Erasing a track mark”, page 53).</p>
Recorded sound level	<p>Same as the source. Can also be adjusted manually (Digital REC level control) (“Adjusting the recording level manually (Manual recording)”, page 33).</p>	<p>Adjusted automatically. Can also be adjusted manually (“Adjusting the recording level manually (Manual recording)”, page 33).</p>

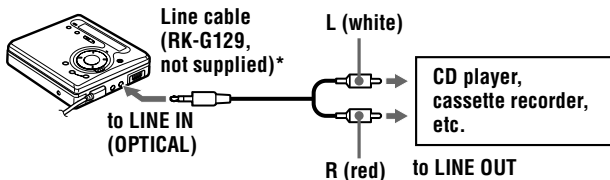
**Note**

Track marks may be copied incorrectly:

- when you record from some CD players or multi disc players using digital (optical) input.
- when the source is in shuffle or program play mode while recording using digital (optical) input. In this case, play the source in normal play mode.
- when recording BS or CS programs through digital (optical) input.

## Recording with analog input (line cable required)

The sound will be sent from the connected equipment as an analog signal but will be recorded digitally on the disc.



\* Use the connecting cords without an attenuator. To connect to a portable CD player having a stereo mini-jack, use the RK-G136 connecting cord (not supplied).

**1** Press and slide REC to the right.  
REC indication lights up in the display and recording starts.

**2** Play the source you want to record.  
For recording operations, see “Recording an MD right away!” (page 15). To record from a portable CD player, set the CD player to pause and then start recording.

### **LINE IN (OPTICAL) jack is for both digital and analog input**

The recorder automatically recognizes the type of line cable and switches to digital or analog input.

#### **Note**

If you temporarily stop a recording operation by pressing **II**, a track mark will be added at that point when you press **II** again to resume recording. The recording continues from on a new track.

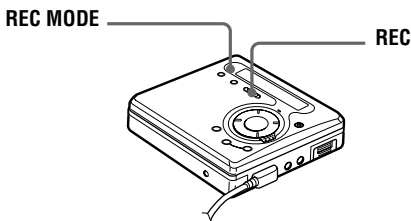
## Recording for long times

Select each recording mode according to the recording time that you want.

Stereo recording is possible at 2 times (LP2) or 4 times (LP4) the normal recording time.

MDs recorded in monaural, LP2, or LP4 mode can be played back only on MD players or recorders with a monaural, LP2, or LP4 playback mode.

Audio components that support the LP2 or LP4 modes are indicated by the **MDLP** or **MDLP** logo marks.



- 1 Press REC MODE repeatedly to select the desired recording mode.

Each time you press REC MODE, the display changes as follows.

Recording mode <sup>1)</sup>	Display	Recording time <sup>3)</sup>
Stereo (normal)	(none)	Approx. 80 min.
LP2 stereo	LP2	Approx. 160 min.
LP4 stereo	LP4	Approx. 320 min.
Monaural <sup>2)</sup>	MONO	Approx. 160 min.

<sup>1)</sup> For better sound quality, record in normal stereo or LP2 mode.

<sup>2)</sup> If you record a stereo source in monaural, the sounds from left and right will be mixed.

<sup>3)</sup> When using an 80-minute recordable MD

- 2 Press and slide REC to the right.

**3** Play the sound source.

**To stop recording, press ■.**

The recorder remains the previous setting of the recording mode when you record the next time.

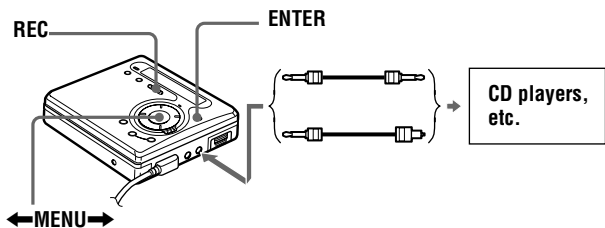
**Notes**

- You cannot change the recording mode while recording.
- It is recommended that you use the supplied AC power adaptor for long recordings.
- If you try to play an MD recorded in LP2 or LP4 on MD players or recorders that do not support these modes, playback will not start and “LP:” will appear on the display.
- Sound recorded through digital (optical) input can be monitored in stereo through headphones/earphones, etc.
- When you record in LP4 mode, momentary noise may be produced on very rare occasions with certain sound sources. This is because of the special digital audio compression technology that enables a recording time 4 times longer than normal. If noise is produced, it is recommended that you record in normal stereo or LP2 mode to obtain better sound quality.

---

**To start/stop recording in sync with the source player (Synchro-recording)**

You can easily make digital recordings of a digital source on an MD. Before synchro-recording, make connections to the digital source with a digital cable, and insert a recordable MD.



**1** Press ENTER, while the recorder is stopped.

**continued**

- 2** Press **←MENU→** repeatedly until “SYNC REC” flashes in the display, and then press ENTER.



**SYNC indicator**

“SYNC” does not appear if optical cable is not connected to the recorder.

- 3** Press **←MENU→** repeatedly until “SYNC ON” flashes in the display, and then press ENTER.

- 4** Press and slide REC to the right.

The recorder stands by for recording.

- 5** Play the source sound.

The recorder starts recording when it receives the playing sound.

### **To stop recording, press ■.**



- You cannot pause manually during synchro-recording.
- When there is no sound from the player for more than 3 seconds during synchro-recording, the recorder goes into the standby mode automatically. When the sound comes from the player again, the recorder resumes synchro-recording. If the recorder is kept in the standby mode for 5 minutes or longer, the recorder stops automatically.
- For longer recording, follow step 1 of “Recording for long times” (page 28) to select the recording mode, and then do the procedure of synchro-recording.

### **Notes**

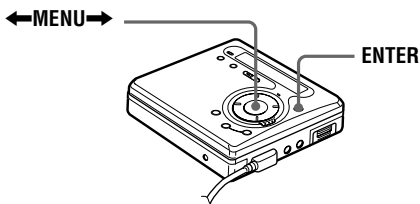
- Do not change the “SYNC REC” setting while recording. Recording may not be done properly.
- Even when there is no recorded sound on the sound source, there may be cases when recording does not pause automatically during synchro-recording due to the noise level emitted from the sound source.
- If a silent portion is encountered for 2 seconds or more during synchro-recording from a sound source other than a CD or an MD, a new track mark is automatically added at the point where the silent portion ends.

- Synchro-recording cannot be done if the connecting cord is not an optical cable, or if the cable is connected to the MIC (PLUG IN POWER) jack.
- You cannot manually change the recording mode or the recording level during synchro-recording.

---

## Recording without overwriting existing material

If you wish to avoid overwriting the current contents of an MD, do the following procedure. All new material will then be recorded from the end of the current contents.



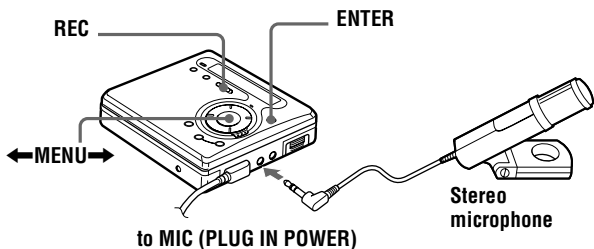
- 1** While the recorder is stopped, press ENTER.
- 2** Press ←MENU→ repeatedly until “REC-Posi” flashes in the display, and then press ENTER.
- 3** Press ←MENU→ repeatedly until “From End” flashes in the display, and then press ENTER.

### To start recording from the current point

Select “From Here” in step 3.

## Recording from a microphone

Connect a stereo microphone (ECM-717, ECM-MS907, ECM-MS957, etc.; not supplied) to the MIC (PLUG IN POWER) jack.



- 1 Insert a recordable MD and press and slide REC to the right. For other operations, see “Recording an MD right away!” (page 15).

### Notes

- You cannot record through the microphone while an optical cable is connected to the LINE IN (OPTICAL) jack. The recorder automatically switches input in the following order; optical input, microphone input, and analog input.
- The microphone may pick up the operating sound of the recorder itself. Use the microphone away from the recorder in such cases.

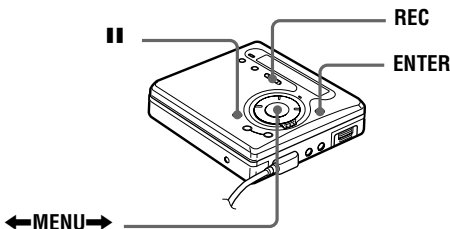


## Adjusting the recording level manually (Manual recording)

When you record, the sound level is adjusted automatically. If necessary, you can set the level manually.

### Note

Adjust the recording level while the recorder is in standby mode. You cannot adjust it while recording.



- 1** While holding down **||**, press and slide **REC** to the right. The recorder stands by for recording.
- 2** Press **ENTER**, press **←MENU→** repeatedly until “RecVolume” flashes in the display, and then press **ENTER** again.
- 3** Press **←MENU→** repeatedly until “ManualREC” flashes in the display, and then press **ENTER**.



To switch back to the automatic control, Press **←MENU→** repeatedly until “Auto REC” flashes in the display, and then press **ENTER**.

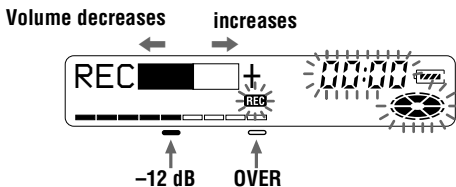
- 4** Play the source.

**continued**

- 5** While observing the level meter in the display, adjust the recording level by pressing **←MENU→**.

Set the level so that the level meter reaches around **-** (-12 dB) mark above the display window.

If the sound is too high, lower the recording level until the level meter just barely reaches the **=** (OVER) mark above the display window.



Recording does not start in this step.

If your source is an externally connected component, be sure to cue the source to the beginning of the material to be recorded before you start playback.

- 6** Press **||** again to start recording.

### **To stop recording, press ■.**

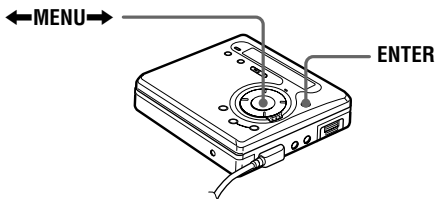
The recording level control is switched back to automatic control when you record the next time.

#### **Notes**

- The recording level cannot be adjusted while recording is in progress. If you want to adjust the recording level after you have started the recording, press **||** to pause the recorder. Then do the procedure from step 5.
- You cannot adjust the recording level manually during synchro-recording.

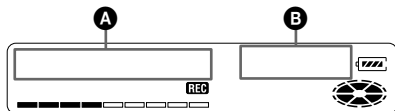
## Checking the remaining time or the recording position

You can check the remaining time, track number, etc. when recording or during stop.



- 1** While the recorder is recording or stopped, press ENTER, press ←MENU→ repeatedly until “DISPLAY” flashes in the display, and then press ENTER again.
- 2** Press ←MENU→ repeatedly until the information you want flashes in the display.  
Each time you press MENU→, the display changes as follows.

### Display window on the recorder



**continued**

**On A**

**LapTime**

The elapsed time of the current track.



**RecRemain<sup>1)</sup>**

The remaining recordable time.



**AllRemain<sup>2)</sup>**

The remaining time after the current location.

<sup>1)</sup>“REC REMAIN” starts flashing in the display when the remaining time for recording become 3 minutes or less.

<sup>2)</sup>Appears only when the recorder is stopped.

**3** Press ENTER.

The information selected in step 2 appears in **A** and **B**.

**A** — track number, track name<sup>3)</sup>, or disc name<sup>4)</sup>.

**B** — the information selected in step 2.

<sup>3)</sup>Appears only when “RecRemain” is selected while the recorder is in stop mode and the track is labeled.

<sup>4)</sup>Appears only when “AllRemain” is selected while the recorder is in stop mode, and the disc is labeled.



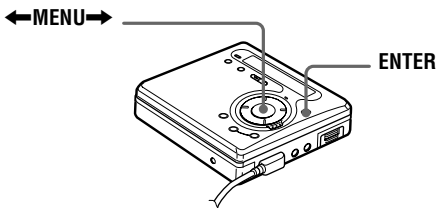
If you want to check the playing position or track name while playing, see page 40.

## Various ways of playback

Check menu items in the display window on the recorder, since they are displayed only there.

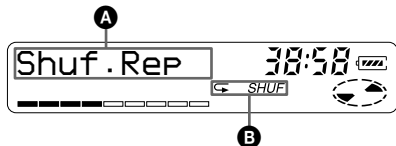
### Playing tracks repeatedly

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



- 1 While the recorder is playing or stopped, press ENTER, press ←MENU→ repeatedly until “PLAY MODE” flashes in the display, and then press ENTER again.
- 2 Press ←MENU→ repeatedly to select the play mode, and then press ENTER.  
Each time you press MENU→, the display item indicated by **A** changes as follows.  
Pressing ENTER while **A** is flashing causes the play mode to change.  
The new mode then appears in the window indicated by **B**.

#### Display window on the recorder



**continued**

On **A/B**

**Normal**/(none)

All the tracks are played once.

↓  
**AllRepeat**/**↺**

All the tracks are played repeatedly.

↓  
**1 Repeat**/**↺ 1**

A single track is played repeatedly.

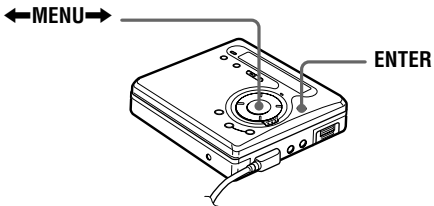
↓  
**Shuf.Rep**/**↺ SHUF**

After the currently selected track finishes playing, the remaining tracks are played repeatedly in random order.

---

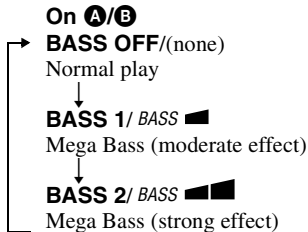
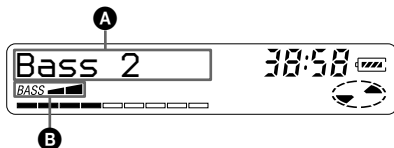
## Emphasizing bass (DIGITAL MEGA BASS)

The Mega Bass function intensifies low frequency sound for richer quality audio reproduction. It affects only the sound from the headphones/earphones.



- 1** Press ENTER, press ←MENU→ repeatedly until “BASS” flashes in the display, and then press ENTER again.
- 2** Press ←MENU→ to select the item, and then press ENTER. Each time you press MENU→, **A** and **B** change as follows.

## Display window on the recorder

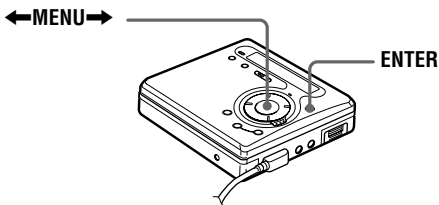


### Notes

- If the sound becomes distorted when emphasizing bass, turn down the volume.
- The Mega Bass function does not affect the sound that is being recorded or the sound from the radio.

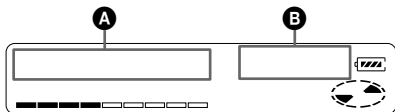
## Checking the remaining time or the playing position

You can check the track name, disc name, etc. during playback.



- 1** While the recorder is playing, press ENTER, press ←MENU→ repeatedly until "DISPLAY" flashes in the display, and then press ENTER again.
- 2** Press ←MENU→ repeatedly until the information you want flashes in the display.  
Each time you press MENU→, the display changes as follows.

### Display window on the recorder



On **A**

**LapTime**

The elapsed time of the current track.

**1 Remain**

The remaining time of the current track.

**AllRemain**

The remaining time after the current location.



### 3 Press ENTER.

The display changes as follows.

The information selected in step 2 appears in **A** and **B**.

**A** — track number, track name<sup>1)</sup>, or disc name<sup>2)</sup>.

**B** — the information selected in step 2.

<sup>1)</sup>Appears only when “1 Remain” is selected and the track is labeled.

<sup>2)</sup>Appears only when “AllRemain” is selected while the recorder is in stop mode, and the disc is labeled.

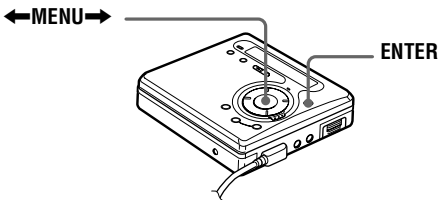


If you want to check the remaining time or the recording position while recording or in stop mode, see page 35.

---

## Protecting your hearing (AVLS)

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



**1** Press ENTER, press **←MENU→** repeatedly until “AVLS” flashes in the display, and then press ENTER again.

**2** Press **←MENU→** repeatedly until “AVLS ON” flashes in the display, and then press ENTER.

When you try to turn the volume too high, “AVLS” flashes in the display. The volume is kept to a moderate level.

### To cancel AVLS

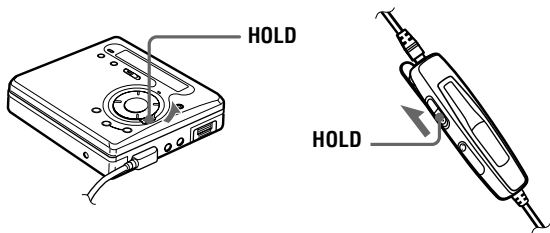
Select “AVLS OFF” in step 2.

#### Note

The Mega Bass function does not operate while “AVLS” is set to “AVLS ON.”

## Locking the controls (HOLD)

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




**1** Move HOLD in the direction of the ➡.

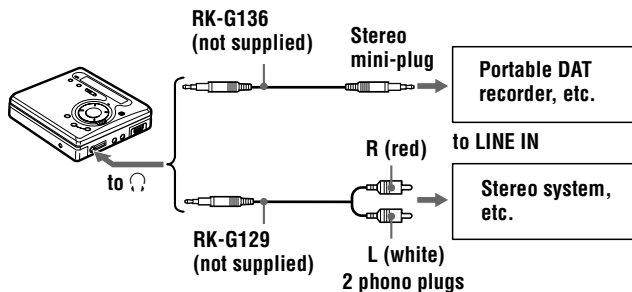
On the recorder, move HOLD to lock the controls of the recorder.  
On the remote control, slide HOLD to lock the controls of the remote control.

### To unlock the controls


Move HOLD in the opposite direction of the arrow to unlock the controls.

## Connecting to a stereo system

Connect the  jack of the recorder to the LINE IN jacks of an amplifier or a tape recorder with a line cable (RK-G129 or RK-G136, not supplied). The output is analog. The recorder plays the MD digitally and sends analog signals to the externally connected equipment.



### When the recorder is connected to an another audio component through the supplied remote control.

When connecting a line cable (not supplied) to the  jack of the remote control, be sure to set the "BEEP" setting to "BEEP OFF." This keeps the beep sound out of the recorded signal or the output from the externally connected equipment.

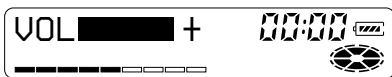
- 1** Press ENTER, press **←MENU→** repeatedly until "BEEP" flashes in the display, and then press ENTER again.
- 2** Press **←MENU→** repeatedly until "BEEP OFF" flashes in the display, and then press ENTER.

## To turn on the beep sound

Select “BEEP ON” in step 2.

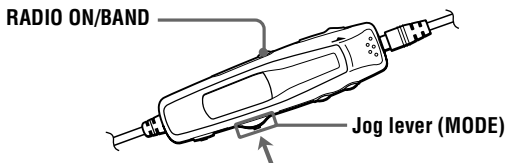
### Notes

- Even when connecting to the externally connected equipment, the Mega Bass function is operative. If you do not want the effect of the Mega Bass function on your recording or the output from the externally connected equipment, set “BASS” to “BASS OFF” (page 38).
- When recording to an externally connected equipment, press VOL + repeatedly to raise the volume level to maximum, which is optimum for recording to an externally connected equipment. If, however, this level produces distortion in the recording, press VOL – several times to lower the level (to that shown in the illustration below).

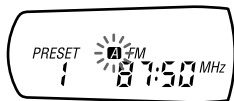


### Presetting radio stations automatically

You can automatically preset radio stations whose reception is good. Once a station is preset, you can tune it in at any time simply by selecting the preset number. Up to 40 stations can be preset, 30 for FM and 10 for AM.



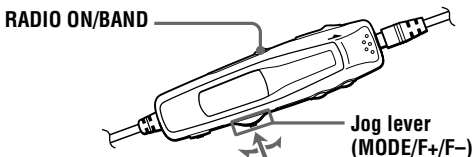
- 1** Press RADIO ON/BAND to select “FM” or “AM.”
- 2** Press the jog lever (MODE) until “PRESET” appears in the display.
- 3** Press and hold the jog lever (MODE) until “**A**” flashes in the display.



- 4** Press the jog lever (MODE).  
The station frequencies are stored in memory in order of low to high, starting with preset number 1.

## Presetting radio manually

If the automatic presetting function fail to find the station that you want because of poor reception, do the steps below to manually store the radio station to a preset number.



- 1** Press RADIO ON/BAND to select “FM” or “AM.”
- 2** Press the jog lever (MODE) until “PRESET” disappears in the display.
- 3** Flip the jog lever towards F+ or F- repeatedly to tune the desired radio station.  
The radio station is entered.
- 4** Press and hold the jog lever (MODE) until “**M**” and the preset number flash in the display.

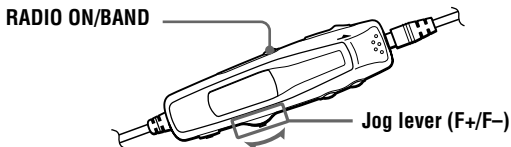


- 5** Flip the jog lever towards F+ or F- repeatedly until the desired preset number flashes in the display.  
The preset number is entered.
- 6** Press and hold the jog lever (MODE) until “**M**” and the preset number stop flashing in the display.

---

## Listening to the preset radio stations

You can simply tune the station by selecting the preset number.

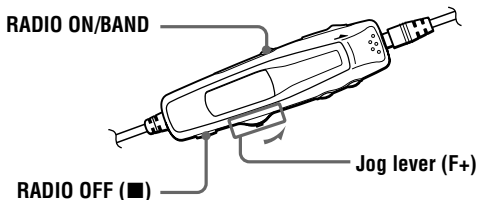


- 1** Press RADIO ON/BAND to select “FM” or “AM.”
- 2** Flip the jog lever towards F+ (▶▶▶▶) or F- (◀◀◀◀) repeatedly until the desired preset number appear on the display.

---

## Receiving stations outside your country (Excluding European, Saudi Arabian, and Chinese model)

You can change the tuning interval and frequency range to suit the geographical region.

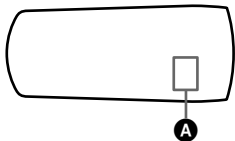


- 1** Press RADIO ON/BAND.

**continued**

---

- 2** Press and hold RADIO OFF (■) until the frequency indication flashes in the display.
- 3** Flip the jog lever towards F+ repeatedly until the desired region code appears in the display.



Each time you flip the jog lever, the region code indicated by **A** changes as follows:

<b>A</b>	<b>Region</b>	<b>FM (MHz)<sup>1)</sup></b>	<b>AM (kHz)<sup>1)</sup></b>
J	Japan	76.0 - 90.0	531 - 1,710
U	U.S.A, Canada, and Central and South America	87.5 - 108.0	530 - 1,710
E	Other countries	87.5 - 108.0	531 - 1,602

<sup>1)</sup> Frequency range

- 4** Press and hold RADIO OFF (■) until the frequency indication appears in the display.
- 5** Press RADIO OFF (■) to turn off the radio once, and then press RADIO ON/BAND to turn on the radio.  
The new setting is stored in memory and is not affected even when you turn off the radio.

### **Notes**

- The battery indication does not appear in the display when you use the radio.
- After changing the tuning interval, you need to preset radio station.



## Editing recorded tracks

You can edit your recordings by adding/erasing track marks or labeling tracks and MDs. Premastered MDs cannot be edited. Check menu items in the display window on the recorder, since they are displayed only there.

### Notes on editing

- Do not move or jog the recorder while “TOC Edit”\* is flashing in the display.
- You cannot edit tracks on an MD that is record-protected. Before editing tracks, close the tab on the side of the MD (page 62).
- If you perform an editing operation while playing, be sure not to turn the power off until “TOC Edit” disappears in the display.
- The lid does not open until “TOC Edit” disappears in the display after editing.

\* TOC = Table of Contents

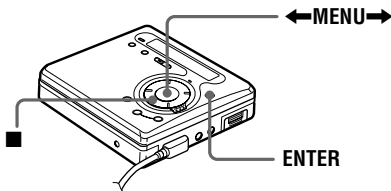
---

## Erasing tracks

---


### To erase a track


Note that once a recording has been erased, you cannot retrieve it. Make sure of the track you are erasing.



- 1** While playing the track you want to erase, press ENTER.

**continued**

**2** Press **←MENU→** repeatedly until “EDIT” flashes in the display, and then press ENTER.  
“: Name” flashes in the display, and the recorder plays the selected track repeatedly.

**3** Press **←MENU→** repeatedly until “: Erase” flashes in the display, and then press ENTER.  
“Erase OK?” and “PushENTER” appear alternately in the display.  
To cancel erasing, press **■**.

**4** Press ENTER again.

The track is erased and the next track starts to play. All the tracks after the one erased are automatically renumbered.

### To erase a part of a track

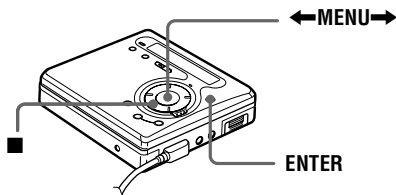
Add track marks at the beginning and the end of the part you want to erase, then erase the part (page 52).

---



### To erase the whole disc

You can quickly erase all the tracks and data of the MD at the same time.

Note that once a recording has been erased, you cannot retrieve it. Be sure to check the contents of the disc you want to erase.



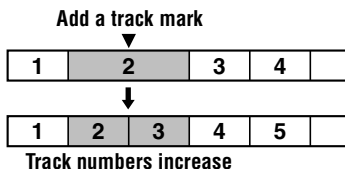
**1** While the recorder is stopped, press ENTER.

- 2** Press **←MENU→** repeatedly until “EDIT” flashes in the display, and then press ENTER again.  
“: Name” flashes in the display.
- 3** Press **←MENU→** repeatedly until “: Erase” flashes in the display, and then press ENTER.  
“All Erase?” and “PushENTER” appear alternately in the display.  
To cancel erasing, press **■**.
- 4** Press ENTER again.  
“TOC Edit” flashes in the display, and all the tracks will be erased.  
When erasing is complete, “BLANKDISC” appears in the display (“-----” appears in the display on the remote control).

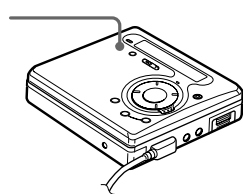
## Adding a track mark

You can add track marks so that the part after the new track mark is counted as a new track.

The track numbers will increase as follows.



**T MARK**



- 1** While playing or pausing an MD, press T MARK at the point you want to mark.  
“MARK ON” appears in the display, and a track mark is added.  
The track number will increase by one.

### **To add track marks while recording**

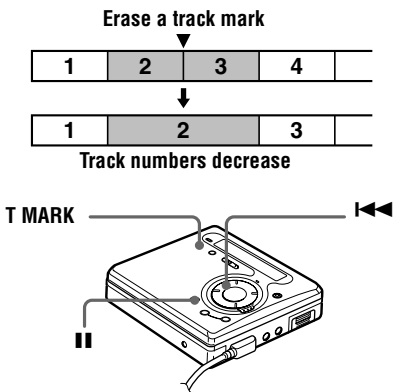
Press T MARK at the point you want to add a track mark.

#### **Note**

You cannot add track marks during synchro-recording.

## Erasing a track mark

When you record with analog (line) input, unnecessary track marks may be recorded where recording level is low. You can erase a track mark to combine the tracks before and after the track mark. The track numbers will change as follows.



- 1** While playing the track with the track mark you want to erase, press **||** to pause.
- 2** Find the track mark by pressing **⏮** slightly.  
For example, to erase the third track mark, find the beginning of the third track. “00:00” appears in the display.  
“MARK” appears in the display for 2 seconds.
- 3** Press T MARK to erase the mark.  
“MARK OFF” appears in the display. The track mark is erased and the two tracks are combined.



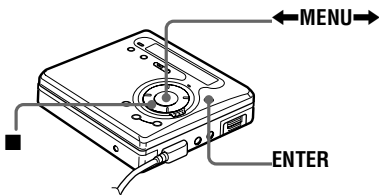
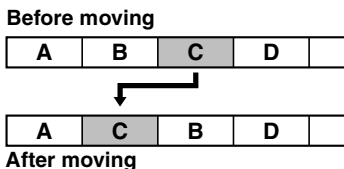
When you erase a track mark, name assigned to the mark is also erased.

## Moving recorded tracks

You can change the order of the recorded tracks.

### Example

Move track C from the third to the second track.



- 1 While playing the track you want to move, press ENTER.
- 2 Press ←MENU→ repeatedly until “EDIT” flashes in the display, and then press ENTER again.  
“🎵: Name” flashes in the display and the recorder plays the selected track repeatedly.
- 3 Press ←MENU→ repeatedly until “🎵: Move” flashes in the display, and then press ENTER.  
For the example above, “MV 003 → 003” appears in the display.
- 4 Press ←MENU→ to select the destination track number.  
For the example above, “MV 003 → 002” appears in the display.  
To cancel moving, press ■.
- 5 Press ENTER again.  
The track moves to the selected destination track.

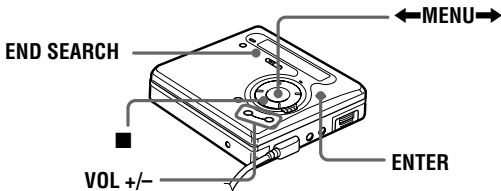
## Labeling recordings

You can name discs while the recorder is stopped, tracks while the recorder is playing, and both while the recorder is recording. Each name can be as long as 200 letters.

Each disc can hold up to 1700 alphanumeric letters during playback or stop.

### Available characters

- Capital and small letters of the English alphabet
- Numbers 0 to 9
- ! " # \$ % & ( ) \* . ; < = > ? @ \_ ` + - ' , / : \_ (space)



### Labeling a disc during stop

- 1** Press ENTER, press ◀MENU▶ repeatedly until “EDIT” flashes in the display, and then press ENTER again.  
“⏻: Name” flashes in the display.

- 2** Press ENTER.  
The disc is ready to be labeled.

**continued**


- 3** Press **←MENU→** repeatedly to select a letter and press ENTER.

The selected letter stops flashing and the cursor moves to the next input position.

Press	To
<b>  </b>	Switch between capital letters, small letters and marks / numbers.
VOL +/-	Move the cursor to the left or right.
<b>←MENU→</b> ( <b>⏪/⏩</b> )	Change the letter to the one before / next one.
END SEARCH/ VOL +	Insert a blank space to type in a new letter pressing both buttons together.
END SEARCH/ VOL -	Delete a letter and move back all following letters to the left pressing both buttons together.
<b>■</b>	Cancel labeling.



- 4** Repeat step 3 and enter all characters of the label name.  
To cancel labeling, press **■**.
- 5** Press ENTER for 2 seconds or more.  
The track or disc is labeled.

### Labeling a track during playback

- 1** Insert a disc and play the track you want to label.
- 2** Press ENTER, press **←MENU→** repeatedly until “EDIT” flashes in the display, and then press ENTER again.  
“: Name” flashes in the display.
- 3** Press ENTER.  
The track is ready to be labeled.
- 4** Follow steps 3 to 5 of “Labeling a disc during stop”.



## Labeling a track or a disc during recording

- 1** While recording, press ENTER.
- 2** Press **←MENU→** repeatedly until “EDIT” flashes in the display, and then press ENTER.  
“: Name” flashes in the display.
- 3** To label a track, press ENTER again.  
To label a disc, press **←MENU→** repeatedly until “: Name” flashes in the display, then press ENTER.  
The track or disc is ready to be labeled.
- 4** Follow steps 3 to 5 of “Labeling a disc during stop”.

### To cancel labeling, press **■**.

#### Notes

- When the recording is stopped while labeling a track or a disc during recording, or when the recording moves on to the next track while labeling a track, the input at that point is entered automatically.
- “LP:” is automatically added at the beginning of track names for tracks recorded in LP2 or LP4 mode.

## Relabeling recordings

Follow the steps corresponding to the labeling method until the disc or track is ready to be labeled. Enter a new character over the one you want to change, then press ENTER for 2 seconds or more.

#### Notes

- You cannot relabel mastered MDs or label MDs that have not been recorded.
- The recorder is able to display, but cannot label using Japanese “Katakana” characters.
- The recorder cannot rewrite a disc or track name of more than 200 letters that was created by another device.

## Power sources

You can use the recorder on house current or as follows.

In the recorder ...

- a nickel cadmium rechargeable battery NC-WMAA (supplied)
- an LR6 (size AA) alkaline dry battery (not supplied)

It is preferable to use the recorder on house current when recording for a long time.

## Battery life

### When recording<sup>1)2)</sup>

(Unit: approx.hours) (JEITA<sup>3)</sup>)

Batteries	Stereo	LP2	LP4
NC-WMAA Nickel Cadmium rechargeable battery <sup>4)</sup>	4	6	7.5
LR6 (SG) Sony alkaline dry battery <sup>5)</sup>	9 <sup>6)</sup>	13 <sup>6)</sup>	16 <sup>6)</sup>

<sup>1)</sup>The battery life may be shorter due to operating conditions, the temperature of the location, and varieties of batteries.

<sup>2)</sup>When you record, use a fully charged rechargeable battery.

<sup>3)</sup>Measured value by the standard of JEITA (Japan Electronics and Information Technology Industries Association).

<sup>4)</sup>When using a 100% fully charged rechargeable battery.

<sup>5)</sup>When using a Sony LR6 (SG) "STAMINA" alkaline dry battery (produced in Japan).

<sup>6)</sup>Recording time may differ according to the alkaline batteries.

### When playing<sup>1)</sup>

(Unit: approx.hours) (JEITA<sup>2)</sup>)

Batteries	Stereo	LP2	LP4
NC-WMAA Nickel Cadmium rechargeable battery <sup>3)</sup>	11.5	14	16
LR6 (SG) Sony alkaline dry battery <sup>4)</sup>	36	42	48

- 1) The battery life may be shorter due to operating conditions, the temperature of the location, and varieties of batteries.
- 2) Measured value by the standard of JEITA (Japan Electronics and Information Technology Industries Association).
- 3) When using a 100% fully charged rechargeable battery.
- 4) When using a Sony LR6 (SG) "STAMINA" alkaline dry battery (produced in Japan).


## When using the radio<sup>1)</sup>

(JEITA<sup>2)</sup>)

Batteries	Approx. hours
NC-WMAA Nickel Cadmium rechargeable battery <sup>3)</sup>	9.5
LR6 (SG) Sony alkaline dry battery <sup>4)</sup>	28.5

- 1) The battery life may be shorter due to operating conditions, the temperature of the location, and varieties of batteries.
- 2) Measured value by the standard of JEITA (Japan Electronics and Information Technology Industries Association).
- 3) When using a 100% fully charged rechargeable battery.
- 4) When using a Sony LR6 (SG) "STAMINA" alkaline dry battery (produced in Japan).

## When to replace the battery

When the dry battery or rechargeable battery is weak, flashing , "LOW BATT," etc. appears in the display ("Lo batt," etc. appears in the display on the remote control). Replace the dry battery or charge the rechargeable battery.

Note that the battery level indicated by the battery indication is only approximate and varies with the recorder condition.

### Note

Stop the recorder before replacing battery.

### Precautions

#### On safety

Do not put any foreign objects in the DC IN 3V jack.

#### On power sources

- Use house current, nickel cadmium rechargeable battery, LR6 (size AA) battery, or car battery.
- For use in your house: Use the AC power adaptor supplied with this recorder. Do not use any other AC power adaptor since it may cause the recorder to malfunction.

#### Polarity of the plug



- The recorder is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the recorder itself has been turned off.
- If you are not going to use this recorder for a long time, be sure to disconnect the power supply (AC power adaptor, dry battery, rechargeable battery, or car battery cord). To remove the AC power adaptor from the wall outlet, grasp the adaptor plug itself; never pull the cord.

#### On heat build-up

Heat may build up in the recorder if it is used for an extended period of time. In this case, leave the recorder turned off until it cools down.

#### On installation

- Never use the recorder where it will be subjected to extremes of light, temperature, moisture or vibration.
- Never wrap the recorder in anything when it is being used with the AC power adaptor. Heat build-up in the recorder may cause malfunction or damage.

## **On the headphones/earphones**

### ***Road safety***

Do not use headphones/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 recorder at high volume while walking, especially at pedestrian crossings. You should exercise extreme caution or discontinue use in potentially hazardous situations.

### ***Preventing hearing damage***

Avoid using headphones/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**

- When carrying or storing the MiniDisc, keep it in its case.
- Do not break open the shutter.
- Do not place the cartridge where it will be subject to light, extreme temperatures, moisture or dust.
- Attach the supplied MD label only in the space designated for it on the disc. Do not stick it on any other disc surface.

## **On cleaning**

- Clean the recorder 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 obtain the best sound quality, use a dry cloth to wipe the plugs of the headphones/earphones or the remote control. Dirty plugs may cause sound distortion or intermittent breaks in the sound.

## **Notes on batteries**

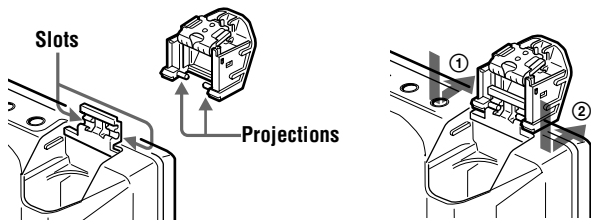
Incorrect battery usage may lead to leakage of battery fluid or bursting batteries. To prevent such accidents, observe the following precautions:

- Install the + and – poles of the battery correctly.
- Do not try to recharge dry battery.
- When the recorder 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.

## On the lid of the battery compartment

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



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

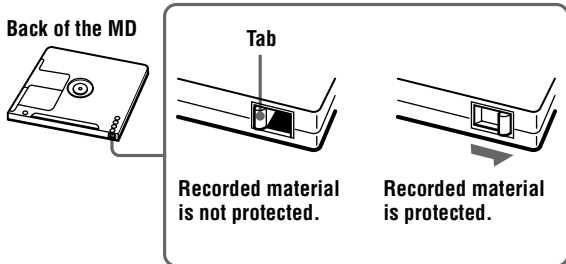
**2** Fit the projection one by one into the slot as shown in the illustration.

## Note on mechanical noise

The recorder gives off mechanical noise while operating, which is caused by the power-saving system of the recorder and it is not a problem.

## To protect a recorded MD

To record-protect an MD, slide open the tab at the side of the MD. In this position, the MD cannot be recorded or edited. To record again, slide the tab back so the tab is visible.



## Note on digital recording

This recorder uses the Serial Copy Management System, which allows only first-generation digital copies to be made from premastered software. You can only make copies from a home-recorded MD by using the analog connections.

**Premastered software such as CDs or MDs.**



↓ **Digital recording**



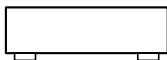
**Home-recorded MD**

**No digital recording**

**Recordable MD**

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

**Microphone, record player, tuner, etc. (with analog output jacks).**



↓ **Analog recording**



**Home-recorded MD**

↓ **Digital recording**



**Recordable MD**

**No digital recording**

**Recordable MD**

# Troubleshooting

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

## MD Recorder

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

- Audio sources may not be firmly connected.
  - Disconnect the audio sources once and connect them again (pages 15, 27).
- The HOLD function is turned on (“HOLD” appears in the display when you press an operation button on the recorder).
  - Disable HOLD by moving the HOLD switch in the opposite direction of the arrow (page 13).
- Moisture has condensed inside the recorder.
  - Take the MD out and leave the recorder in a warm place with the lid open for several hours until the moisture evaporates.
- The rechargeable battery or dry battery is weak (☐ or “LOW BATT” flashes on the recorder).
  - Charge the rechargeable battery or replace the dry battery (page 58).
- The rechargeable battery or dry battery have been inserted incorrectly.
  - Insert the battery correctly (page 12).
- You pressed a button while the disc indication was rotating quickly.
  - Wait until the indication rotates slowly.
- The analog recording was made using a connecting cord with an attenuator.
  - Use a connecting cord without an attenuator (page 27).
- While operating, the recorder received a mechanical shock, too much static, abnormal power voltage caused by lightning, etc.
  - Restart the operation as follows.
    - 1 Disconnect all the power sources.
    - 2 Leave the recorder for about 30 seconds.
    - 3 Connect the power source.



- The disc is damaged or does not contain proper recording or editing data.

— Reinsert the disc. If this fails, rerecord.

### **“NO SIGNAL” appears in the display when recording from a portable CD player.**

- There is no digital signal from the portable CD player.
  - When recording digitally from a portable CD player, use AC power adaptor and disable the anti-skip function (such as ESP) on the CD player (page 18).


### **There is no recording on the MD after a recording operation.**

- The AC power adaptor was unplugged or a power outage occurred during recording.

### **The lid does not open.**

- The power sources have been disconnected during recording or editing, or the battery have been exhausted.
  - Set the power sources again, or replace the exhausted battery with new ones.


### **No sound comes through the headphones/earphones.**

- The headphones/earphones plug is not firmly connected.
  - Plug in the plug of the headphones/earphones firmly to the remote control. Plug in the plug of the remote control firmly to .
- Volume is too low.
  - Adjust the volume by pressing VOL +/-.

### **Volume cannot be turned up.**

- AVLS is on.
  - Set AVLS to “AVLS OFF” (page 41).

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

- Disc playing stopped before it came to the last track.
  - Press  repeatedly to go back to the beginning of the disc, and restart playing after checking the track number in the display.

### **Playback sound skips.**

- The recorder is placed where it receives continuous vibration.
  - Put the recorder 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 recorder away from the source of strong magnetism.

### **Cannot find the track marks.**

- You pressed **II** after pressing **I◀◀** or **▶▶I**.  
— Press **II** before or pressing **I◀◀** or **▶▶I** (page 53).

### **The rechargeable battery does not start charging.**

- The rechargeable battery has been inserted incorrectly or the AC power adaptor has been connected incorrectly.  
— Insert the battery correctly or connect the AC power adaptor correctly.

### **Momentary noise is heard.**

- Due to the special digital audio compression technology used in LP4 mode, momentary noise may occur on very rare occasions with certain sound sources.  
— Record in normal stereo or LP2 mode.

## **Radio**

### **“- - - - -” appears in the display on the remote control and the radio does not operate.**

- The supplied remote control is connected to other unit than this recorder. The supplied remote control should be used with this recorder only.
- After confirming that “- - - - -” or “no DISC” has disappeared from the display on the remote control, press RADIO ON/BAND again on the remote control.

### **□□ flashes in the display on the remote control and the radio does not operate.**

- The rechargeable battery or the alkaline dry battery is used up.  
— Charge the battery or replace the battery with new LR6 (size AA) alkaline dry battery. (page 12)

### **You cannot turn off the radio through you press and hold RADIO OFF (■).**

- You keep pressing RADIO OFF (■). (page 48)  
— Release RADIO OFF (■). When using the radio, RADIO OFF (■) functions at the time you release it.

## System limitations

The recording system in your MiniDisc recorder is radically different from those used in cassette and DAT decks and is characterized by the limitations described below. Note, however, that these limitations are due to the inherent nature of the MD recording system itself and not to mechanical causes.

Symptom	Cause
“TR FULL” appears even before the disc has reached the maximum recording time (60, 74, or 80 minutes).	When 254 tracks have been recorded on the disc, “TR FULL” appears regardless of the total recorded time. More than 254 tracks cannot be recorded on the disc. To continue recording, erase unnecessary tracks.
“TR FULL” appears even before the disc has reached the maximum track number or recording time.	Repeated recording and erasing may cause fragmentation and scattering of data. Although those scattered data can be read, each fragment is counted as a track. In this case, the number of tracks may reach 254 and further recording is not possible. To continue recording, erase unnecessary tracks.
Track marks cannot be erased. The remaining recording time does not increase even after erasing numerous short tracks.	When the data of a track is fragmented, the track mark of a fragment under 12 seconds long (recorded in stereo), 24 seconds long (recorded in monaural or LP2 mode), or 48 seconds long (recorded in LP4 mode) cannot be erased. You cannot combine a track recorded in different recording modes, e.g., a track recorded in stereo and a track recorded in monaural; nor can you combine a track recorded with digital connection and a track recorded with analog connection. Tracks of under 12 seconds, 24 seconds, or 48 seconds in length are not counted and so erasing them may not lead to an increase in the recording time.

<b>Symptom</b>	<b>Cause</b>
<p>The total recorded time and the remaining time on the disc may not total the maximum recording time (60, 74, or 80 minutes).</p>	<p>Normally, recording is done in minimum units of approximately 2 seconds (in stereo), 4seconds (in monaural or LP2 mode), or 8 seconds (in LP4 mode). When recording is stopped, the last unit of recording always uses this unit of 2 seconds, 4 seconds, or 8 seconds even if the actual recording is shorter. Likewise, when recording is restarted after the stop, the recorder will automatically insert a blank space amounting to 2 seconds, 4 seconds, or 8 seconds before the next recording. (This is to prevent accidental erasing of a previous track whenever a new recording is started.) Therefore, the actual recording time will decrease whenever a recording is stopped; a maximum of 6 seconds, 12 seconds, or 24 seconds compared to the potential recording time for each stop.</p>
<p>The edited tracks may exhibit sound dropout during search operations.</p>	<p>The fragmentation of data may cause sound dropout while searching because the tracks are played in higher speed than normal playback.</p>

---

## Messages

If the following messages flash in the display window, check the messages below.

The messages appear on the display window on the remote control are shown in the parentheses.

### **BLANKDISC (-----)**

- An MD with no recording on it is inserted.

### **DISC ERR (-----)**

- The disc is damaged or does not contain proper recording or editing data.
  - Reinsert the disc. If this fails, rerecord.

### **DISC FULL (-----)**

- There is no more space to record on the disc (page 67).
  - Replace the disc.

### **Data Save (--)**

- The MD player is recording information (sounds) from the memory to the disc.
  - Wait until this process is completed. Do not expose the player to any physical shock, nor disrupt power supply.

### **TOC Edit (--)**

- The MD player is recording information (track start and end position) from the memory to the disc.
  - Wait until this process is completed. Do not expose the player to physical shock, nor disrupt power supply.

### **BUSY (-----)**

- You tried to operate the recorder while it was accessing the recorded data.
  - Wait until the message goes out (in rare cases, it may take 2 - 3 minutes).

### **NAME FULL (-----)**

- You tried to enter more than 200 letters to label a single track or disc.
- You tried to enter a total of more than 1700 letters for track or disc names.
  - Enter the characters within the limit.

### **Hi DC in (HI dcin, - - - - - )**

- Voltage of the power supply is too high (The supplied AC power adaptor is not used).  
— Use the supplied AC power adaptor.

### **HOLD (Hold)**

- The recorder is locked.  
— Move HOLD against the arrow to unlock the recorder (page 13).

### **LOW BATT (Lo batt)**

- Battery is weak.  
— Charge the rechargeable battery or replace the dry battery (page 12).

### **MEM OVER (- - - - - )**

- You tried to record with the recorder placed where it receives continuous vibration.  
— Put the recorder on a stable place, and start recording again.

### **NO COPY (- - - - - )**

- You tried to make a copy from a disc that is protected by the Serial Copy Management System. You cannot make copies from a digitally connected source which was itself recorded using digital connection.  
— Use analog connection instead (page 27).

### **NO DISC (no dISC)**

- You tried to play or record with no disc in the recorder.  
— Insert an MD.

### **NO SIGNAL (- - - - - )**

- The recorder could not detect digital input signals.  
— Make sure that the source is connected firmly (page 15).

### **P/B ONLY (- - - - - )**

- You tried to record or edit on a premastered MD (P/B stands for “playback”).  
— Insert a recordable MD.

### **PROTECTED (- - - - - )**

- You tried to record or edit on a MD with the tab in the record-protect position.  
— Slide the tab back (page 62).

**SORRY (-----)**

- You tried to erase the track mark at the beginning of the first track.
- You tried to erase a track mark to combine tracks the recorder cannot combine (a track recorded in different recording mode, or a track recorded through a digital connection and an analog connection, for example).
- You tried to press **■**, T MARK or REC MODE during synchro-recording.

**TEMP OVER (-----)**

- Heat has built up in the recorder.  
— Let the recorder cool down.

**TR FULL (-----)**

- There is no more space for new data when you are editing the MD.  
— Erase unnecessary tracks (page 49).

**TrPROTECT (-----)**

- You tried to record or edit on a track that is protected from erasing.  
— Record or edit on other tracks.

# Specifications

## MD recorder

### Audio playing system

MiniDisc digital audio system

### Laser diode properties

Material: GaAlAs MQW

Wavelength:  $\lambda = 790 \text{ nm}$

Emission duration: continuous

Laser output: less than  $44.6 \mu\text{W}$

(This output is the value measured at a distance of 200 mm from the lens surface on the optical pick-up block with 7 mm aperture.)

### Recording and playback time

When using MDW-80

Maximum 160 min. in monaural

Maximum 320 min. in stereo

### Revolutions

350 rpm to 2,800 rpm (CLV)

### Error correction

ACIRC (Advanced Cross Interleave Reed Solomon Code)

### Sampling frequency

44.1 kHz

### Sampling rate converter

Input: 32 kHz/44.1 kHz/48 kHz

### Coding

ATRAC (Adaptive Transform Acoustic Coding)

ATRAC3 — LP2

ATRAC3 — LP4

### Modulation system

EFM (Eight to Fourteen Modulation)

### Number of channels

2 stereo channels

1 monaural channel

### Frequency response

20 to 20,000 Hz  $\pm 3 \text{ dB}$

### Wow and Flutter

Below measurable limit

## Inputs

Microphone: stereo mini-jack, minimum input level 0.35 mV

Line in: stereo mini-jack, minimum input level 49 mV

Optical (Digital) in: optical (digital) mini-jack

## Outputs

Ⓜ: stereo mini-jack, maximum output level 5 mW + 5 mW, load impedance 16 ohm

## Radio

### Frequency range

AM:

530 - 1,710 kHz (US, Canada, and Central and South America models)

531 - 1,602 kHz (Other models)

FM:

87.5 - 108.0 MHz

## General

### Power requirements

Sony AC Power Adaptor (supplied) connected at the DC IN 3 V jack:

120 V AC, 60 Hz (U.S.A., Canadian and Taiwan model)

230 V AC, 50/60 Hz (Europe continental model)

240 V AC, 50 Hz (Australian model)

220 V AC, 50 Hz (Chinese model)

230 - 240 V AC, 50 Hz (U.K. and Hong Kong model)

220 V AC, 50 Hz (Argentina model)



110/220 V AC, 60 Hz (Korean model)  
100 - 240 V AC, 50/60 Hz (Other models)

Nickel Cadmium rechargeable battery NC-WMAA (supplied)  
LR6 (size AA) alkaline battery (not supplied)

### **Battery operation time**

See "Battery life" (page 58)

### **Dimensions**

Approx. 81 × 28.1 × 74.4 mm (w/h/d) (3 1/4 × 1 1/8 × 3 in.) without projections.

### **Mass**

Approx. 118 g (4.2 oz) the recorder only

### **Supplied accessories**

AC power adaptor (1)  
Headphones/earphones with a remote control (1)  
Optical cable (1)  
NC-WMAA Nickel Cadmium rechargeable battery (1)  
Rechargeable battery carrying case (1)  
Carrying pouch/carrying case with a belt clip (except U.S.A. model) (1)

US and foreign patents licensed from Dolby Laboratories.


Design and specifications are subject to change without notice.

### **Optional accessories**

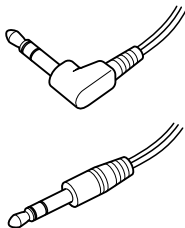
Optical Cable  
POC-15B, POC-15AB, POC-DA12SP  
Line Cable RK-G129, RK-G136  
Stereo Microphones ECM-717, ECM-MS907, ECM-MS957

Stereo Headphones\* MDR-EX70LP, MDR-G72LP, MDR-A34LP  
Active Speakers SRS-Z500  
Recordable MDs MDW-series

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

\* Whether you should plug the headphones/earphones directly to  jack on the main unit or to a remote control, use only headphones/earphones with stereo mini plugs. You cannot use headphones/earphones with micro plugs.

### **stereo mini plugs**



### **micro plug**



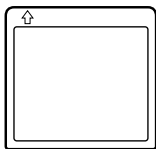
# What is an MD?

## How MiniDisc works

MiniDisc (MD) comes in two types: premastered (prerecorded) and recordable (blank).

Premastered MDs, recorded at music studios, can be played back almost endlessly. However, they can't be recorded on or over like cassette tapes. To record, you must use a "recordable MD".

### Premastered MDs

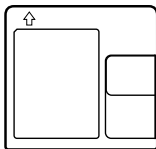


Premastered MDs are recorded and played like regular CDs. A laser beam focuses on the pits in the surface of the MD and reflects the information back to the lens in the recorder. The recorder then decodes the signals and plays them back as music.

## How the MiniDisc got so small

The 2.5-inch MiniDisc, encased in a plastic cartridge that looks like a 3.5-inch diskette (see illustration above), uses a new digital audio compression technology called ATRAC (Adaptive TRAnsform Acoustic Coding). To store more sound in less space, ATRAC

### Recordable MDs



Recordable MDs, which use magneto-optical (MO) technology, can be recorded again and again. The laser inside the recorder applies heat to the MD, demagnetizing the magnetic layer of the MD. The recorder then applies a magnetic field to the layer. This magnetic field corresponds exactly to the audio signals generated by the connected source. (The north and south polarities equate to digital "1" and "0".) The demagnetized MD adopts the polarity of the magnetic field, resulting in a recorded MD.

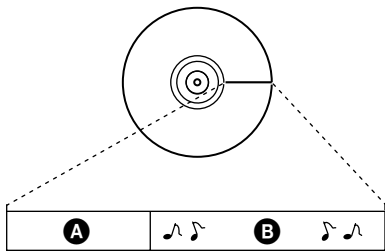
extracts and encodes only those frequency components actually audible to the human ear.

## Quick Random Access

Like CDs, MDs offer instantaneous random access to the beginning of any music track. Premastered MDs are recorded with location addresses corresponding to each music selection.

Recordable MDs are manufactured with a “User TOC Area” to contain the order of the music. The TOC (Table of Contents) system is similar to the

“directory management system” of floppy disks. In other words, starting and ending addresses for all music tracks recorded on the disc are stored in this area. This lets you randomly access the beginning of any track as soon as you enter the track number (AMS), as well as label the location with a track name as you would a file on a diskette.



- A** — User TOC Area  
Contains the order and start/end points of the music.
- B** — Music Data

This warranty is valid only in the United States.

