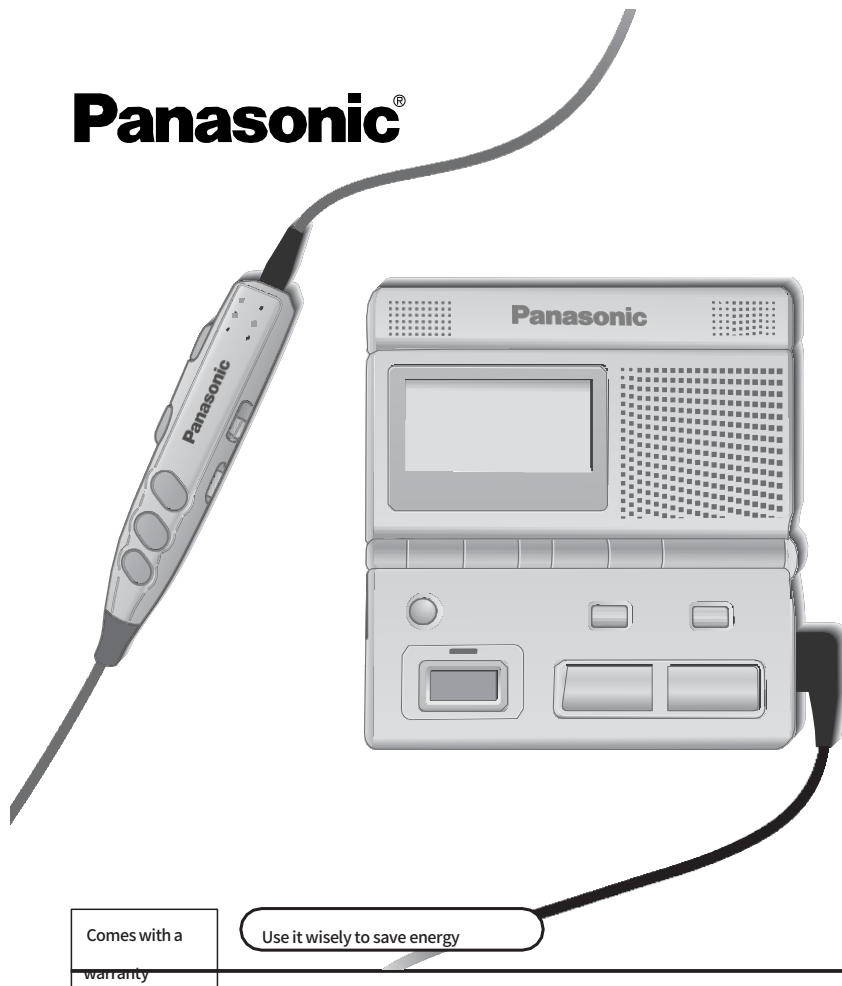


Panasonic®



Item No. **SJ-MR50**

Operating
Operating Instructions
Instructions
Portable MD Recorder
Portable MD Recorder

Thank you very much for your purchase

- Please read this user manual carefully and use the product correctly.
In particular, be sure to read the "Safety Precautions" (pages 4-5) to ensure safe operation.
- After reading, please keep this manual and keep them in a safe place so you can refer to them
- Be sure to check that the warranty card has been filled out with the "date of purchase" and "dealer name," before

Comes with a
warranty

Use it wisely to save energy

MDLP



Matsushita Electric Industrial Co., Ltd. Network Business Group
1-15 Matsuo-cho, Kadoma-shi, Osaka 571-8504

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MDLP Long-time recording and playback
 [LP2 (2x), LP4 (4x)] recording and playback are available, and tracks recorded in mono mode are automatically detected and played back.
 (However, mono recording is not possible.)

High-quality recording function
 In normal stereo recording, "HDES"
High Density Encoding System
 The High Density Encoding System (HDES) enables high-quality recording.

start and pause
 With a built-in stereo microphone, you can record using just the main unit. This is useful for meetings, lectures, language learning, and outdoor recording.
 It also automatically adjusts the recording level
 , enabling efficient recording
 (VOS: Voice Operation System)
 [Automatic recording].
 You can also record using an optional external microphone (page 9).

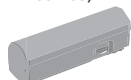
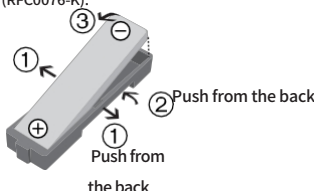
Speaker Playback
 When the stereo in-ear headphones and remote control
 When not connected, sound is heard through the built-in speakers, allowing use in meetings and similar situations.

A-B Repeat, Playback Speed Adjustment
 By selecting the section you want to listen to and playing it repeatedly, or by changing the playback speed, making it useful for language learning, such as English conversation.

Resume Function
 Playback resumes from where it was last paused. This function is canceled when you open or close the lid, replace the batteries, or record or edit.

Accessories

Model numbers are current as of September 2004. They are subject to change.

- | | |
|---|---|
| ☐ Stereo In-Ear Headphones
(LOBAB0000190) | ☐ AC adapter
(Part No.) |
|  |  |
| ☐ Detachable Remote Control
(RFEV048PAST) | ☐ Battery Case
(RFA1537-S3) |
|  |  |
| ☐ Nickel-metal hydride rechargeable battery. Please remove it from the case (RFC0076-K). | ☐ Carrying Case
(RFC0074-H) |
|  |  |

■ To replace this item, please order the part number listed in parentheses from the store where you purchased it.

* Please purchase the rechargeable battery (HHF-AZ01S/1B) separately.

Included
Accessory
Item

Safety Precautions

Please be sure to follow

To prevent injury to the user or others, as well as property damage, please be sure to follow the instructions below.

The following labels classify and explain the severity of harm or damage that may result from ignoring the instructions and using the product incorrectly.

 Danger	This label indicates that "there is a risk of death or serious injury is imminent."
 Warning	This label indicates content for which "death or serious injury."
 Caution	This label indicates content where "injury or property damage is possible."

The types of precautions to be observed are categorized and explained using the following pictograms. (The following are examples of pictograms.)

	This pictogram indicates a "Prohibited" action.
	This pictogram indicates "mandatory" actions that must be followed.

Danger

Rechargeable batteries must be charged using the included AC adapter



Charging with non-specified equipment may cause battery leakage, overheating, or rupture.

- Be sure to use only the specified rechargeable batteries.

Do not use the AC adapter with a damaged cord or plug, or one that has been modified, as this could cause a fire or electric shock.



Warning

Do not short-circuit the positive (+) and negative (-) terminals of rechargeable batteries



This may cause battery leakage, overheating, or rupture.

- When carrying or storing the battery together with metal objects such as necklaces, be sure to place it in the included case.
- A protective tube is placed over the battery for safety. removing it may cause a short circuit, so never remove it.

Do not use batteries from which the tube has been removed.

Make sure to insert the AC adapter plug all the way to the base



If the plug is not inserted all the way, it may cause electric shock or a fire due to overheating.

- Do not use damaged plugs or loose outlets.

Do not damage the AC adapter's cord or plug



Do not damage, modify, or use the cord or plug.

Do not use the cord or plug if it is damaged.

Using the adapter while it is damaged can cause a fire, electric shock, or a short circuit.

- Please consult your retailer regarding repairs to the cord or plug.
- When unplugging, hold the AC adapter itself and pull it straight out.

Do not touch the AC adapter

plug



Do not use with wet hands

This may cause electric shock.

Do not plug in or unplug this unit or the AC

plug



Do not touch

This may result in electric shock.



Warning

Do not use the device in a manner that exceeds the rated capacity of the outlet or wiring fixtures, or use it with a voltage other than 100 V AC



If the rated capacity is exceeded due to daisy-chaining or similar practices, heat generation may

Do not disassemble or modify



If the device malfunctions or metal objects get inside, there is a risk of burns or fire

- Please contact your dealer for inspections and repairs.

Do not disassemble

Do not operate the device while driving or use it with stereo headphones



This can cause an accident.

- Please pay close attention to your surroundings even while walking.

Regularly remove dust from the AC adapter plug



If dust or other debris accumulates on the plug, it may cause insulation failure due to moisture, which could result in a fire.

- Unplug the AC adapter and wipe it with a dry cloth.
- Unplug the AC adapter when not in use for an extended period.



Caution

Do not place in areas where temperatures may become abnormally high



Especially in the interior of a car or in the trunk during the height of summer, temperatures can rise higher than you might imagine (over 60°C). Never leave this unit, rechargeable batteries, or the AC adapter unattended. components may deteriorate, and it may cause a fire.

Do not misuse the batteries



- Do not reverse the + and - terminals
- Do not recharge dry cell batteries
- Do not heat, disassemble, or place them in water or other liquids, or in fire
- Do not
- Do not store them together with metal objects such as necklaces (The same applies to dry cell battery cases containing dry cell batteries.)
- Do not use batteries with damaged casings
- Do not use rechargeable batteries as a substitute for dry cell batteries

Improper handling may cause leakage, overheating, ignition, or rupture, which could result in fire or damage to surrounding areas.

- If you will not be using the batteries for an extended period, please remove them.
- In the event of a leak, please consult the retailer.

If the liquid comes into contact with your body or clothing, rinse thoroughly with water. If the liquid gets into your eyes, there is a risk of blindness. Do not rub your eyes; rinse immediately with clean water and consult a doctor.

Stop using if you feel any discomfort



Using the product as is may cause inflammation or skin irritation

Do not turn the volume up too high when using stereo in-ear headphones. Use the



Listening for long periods at high volumes that are harsh on the ears may have a negative impact on your hearing.



Do not place items susceptible to magnetic fields near this unit.

Using a non-specified AC adapter may cause a fire or electric shock

Due to the speaker's magnetic field, items such as cash cards, commuter passes, and watches may not function properly

Yes.....

Do not
All

Tip

p

Note

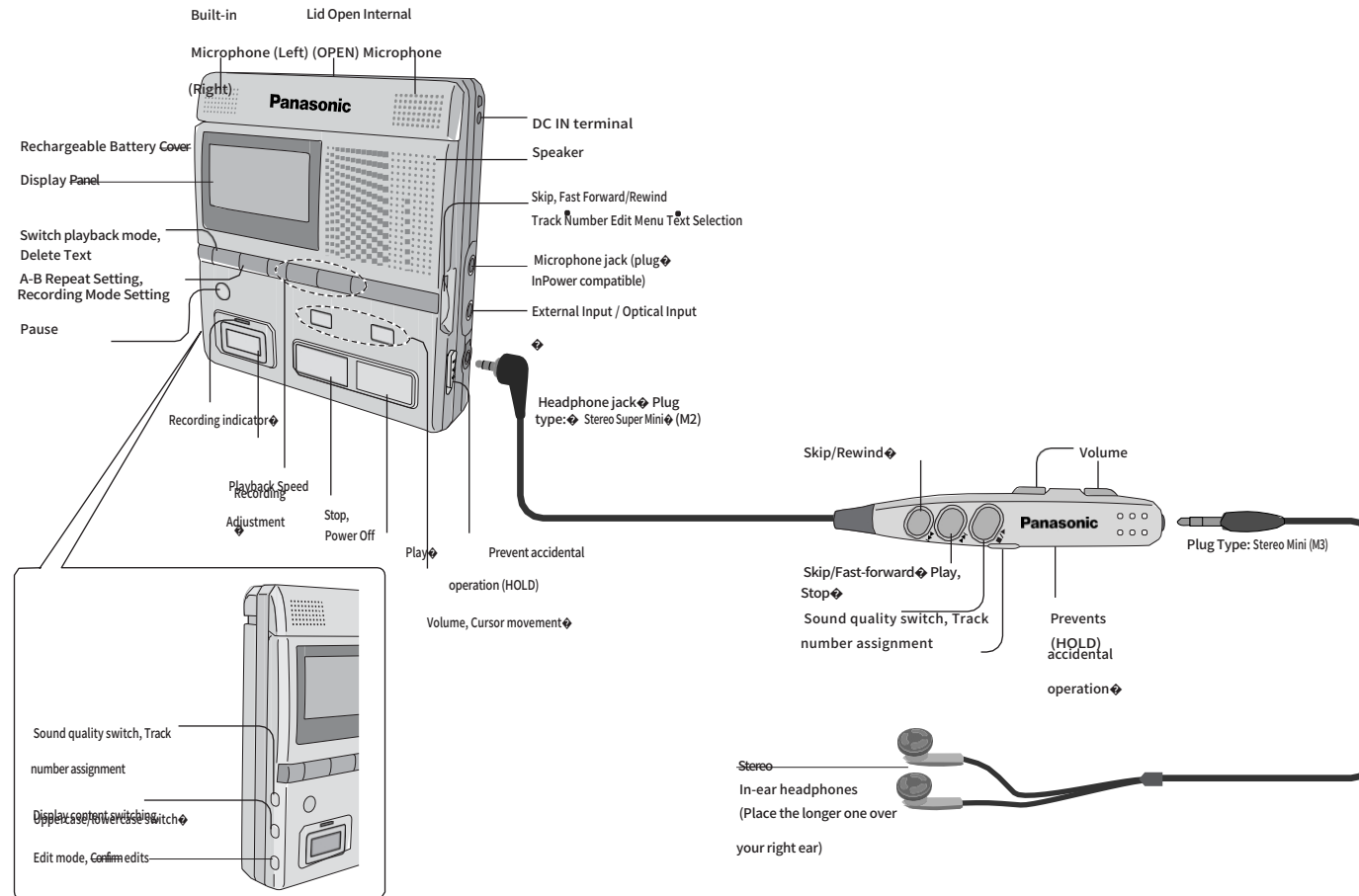
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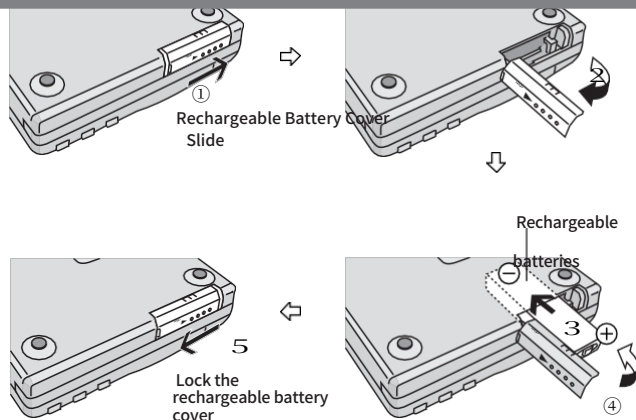
Names of Parts



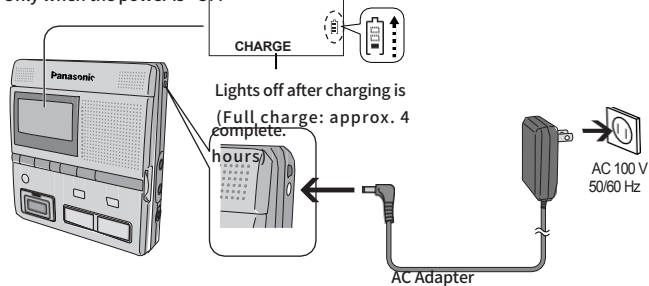
Power Supply

Rechargeable battery

Charge it right after purchase!

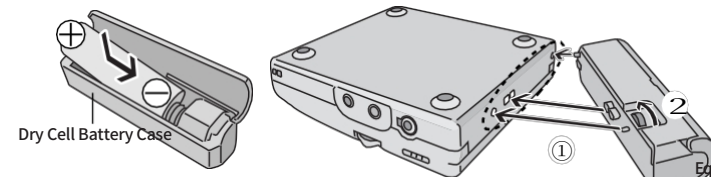


2 Only when the power is "OFF"



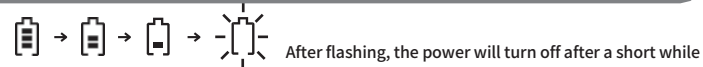
- You can recharge the battery even before it is completely drained.
- We recommend unplugging the AC adapter from the outlet when the unit is not in use for an extended period. Even when the AC adapter is not connected to the unit

Disposable Batteries (Sold separately: AA alkaline)



- Can be used for extended periods when used with rechargeable batteries. (Page 32 "Main Specifications")

Battery Level Indicator



- When the battery is replaced, the volume will be set to VOLUME 12, and all other settings will revert to their factory defaults.

AC adapter

Connect the AC adapter to the unit. (See 2)

- The included AC adapter can only be used with 100 V AC.
- When using the unit overseas, please use a commercially available adapter plug or transformer.

After using rechargeable batteries, please recycle them please recycle them!

Where to send used batteries:

- The store where you purchased the product, or your nearest Panasonic To Dealers, Service Centers, and Distributors
- or the Japan Battery Manufacturers Association. (Website: <http://www.baj.or.jp>)



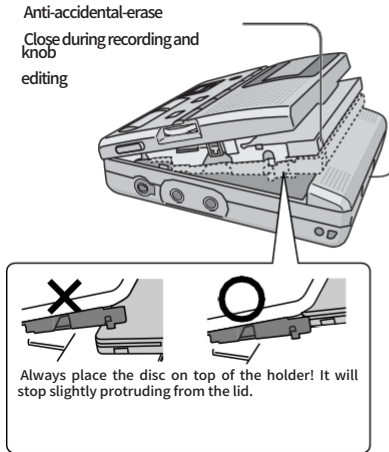
Using nickel-metal hydride batteries

Each
pcs
Name
Battery
of
Equipment
urc
e

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7

Inserting and Removing Discs



To prevent malfunctions, please note the following

- Remove dust from the disc before use.
- Do not drop this unit. (Especially when inserting or removing discs. Precision parts are used inside.)

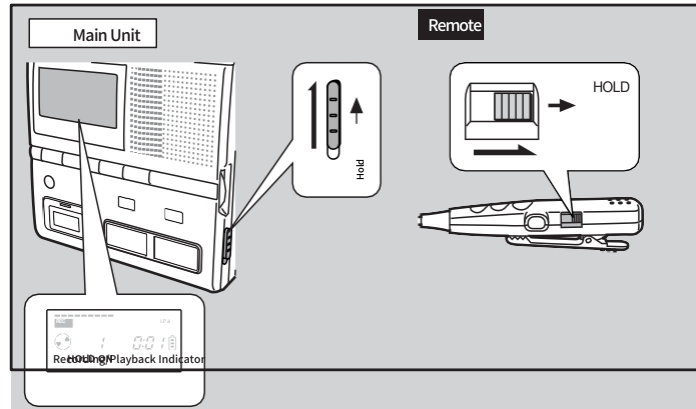
Hold function

The unit will not respond to button operations.

This prevents the unit from turning on accidentally or operations such as recording and playback from being interrupted during use.

- You can still operate the unit with the remote control even when the unit is in Hold mode. You can also operate the unit with the remote control

, you can still operate the main unit.



- "HOLD ON" or "HOLD OFF" is displayed only when the hold function is operated on the main unit.

- To cancel

Slide in the opposite direction of the arrow

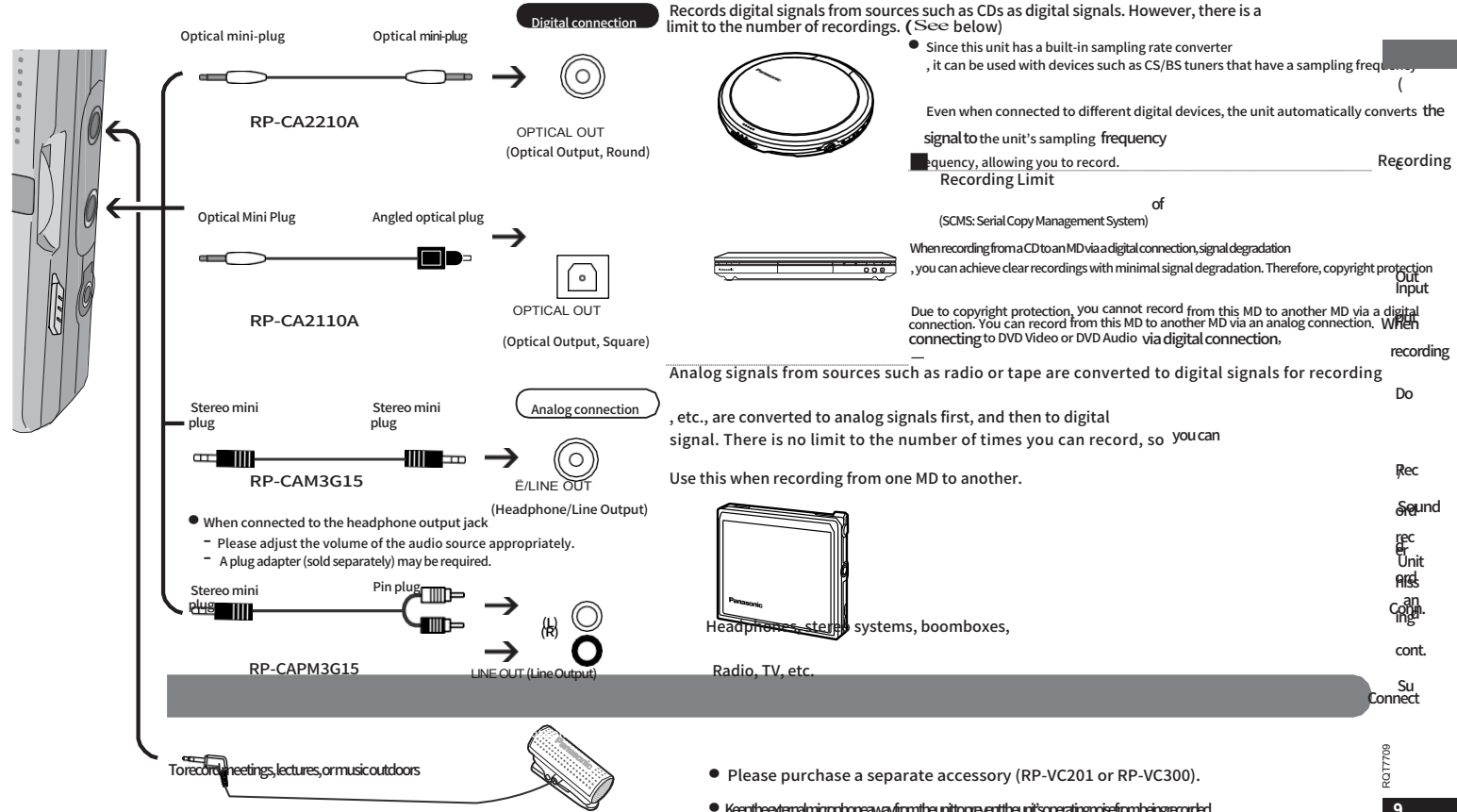
"HOLD OFF" is displayed. (Main unit only)

Connect to the recording device

- Be sure to turn off the power to this unit before connecting it, and carefully read the instruction manual for the device you are connecting.
- Connection cables are sold separately. Model numbers are current as of September 2004 and are subject to change.

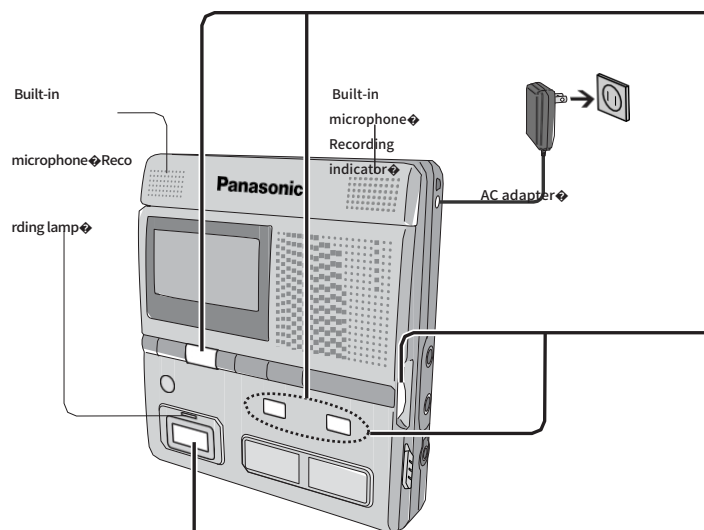
If you do not connect as described below, recording will be done via the built-in microphone (page 6).

Connecting to audio equipment • The illustrations of recording sources are typical examples. Check the shape of the audio output terminal before connecting.



Recording

- Insert an MD for recording and release the Hold button. (Page 8)
- Perform the operations following the press of [A-B Repeat, Record Mode] in Step 7 within one minute of each other.



■ To listen to the sound being recorded

If you connect stereo earbuds and the remote control, you can listen to the sound being recorded. You cannot hear the sound being recorded through the speakers.

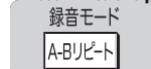
■ To avoid recording failures

- To prevent the batteries from running out, we recommend using the AC adapter. If using batteries, please use a combination of rechargeable and disposable batteries. (Page 7)
- The lid will not open while the unit is paused or recording. Please open it after stopping.
- Do not subject the unit to vibration during recording, including while "UTOX WRITE" is displayed at the end of recording.

Recording with the built-in microphone

7 Select whether to record for a long time

Press while the power is off,



Press to select extended recording



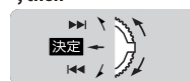
SP (No indication: Standard stereo recording), LP2 (2x), LP4 (4x)

- Recordings made in LP2 or LP4 cannot be played back on devices that do not support "V/LP" (displayed as "LP:"). Please record in SP.
- You can make a selection even while the unit is stopped.

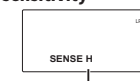
2 Adjusting the recording sensitivity

Turn the dial to select "InMicSense"

, then



press to adjust the recording sensitivity

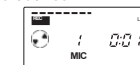


SENSE H (when the sound source is far away), SENSE L (when the sound source is close)

- The following settings are available.
- Automatic voice recording (page 12)
- How to Assign Track Numbers (page 13)

3 To record

After pressing , point the built-in microphone toward the sound source



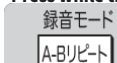
- The recording indicator lights up red, and recording continues from where the previous recording left off.

Recording by connecting to other devices or an external microphone

Preparation: Connect to the device you want to record from (page 9)

7 Select whether to record for a long time

Press while the power is off,



SP/LP

Press to select extended recording



LP4

SP (No display: Normal stereo recording), LP2 (2x), LP4 (4x)

- Content recorded in LP2 or LP4 cannot be played back on devices that do not support "V/DLP" ("LP:" is displayed). Please record in SP.
- You can select this even while the unit is stopped.
- The following settings are available.
 - Synchronized Recording / Single-Track Synchronized Recording (page 12)
 - How to Assign Track Numbers (page 13)
 - Adjusting the recording sensitivity (page 13)

2 Press Record

After pressing,

play the connected device or move the external microphone closer to the sound



- This example shows a digital connection. When connected via analog, "ANALOG" is displayed; when connected via an external microphone, "MIC" is displayed.
- The recording lamp will light up red, and recording will resume from where it left off.
- To record after manually adjusting the recording sensitivity
 - Normal recording: Press [Pause] instead of [Record].
 - Synchronized recording / Single-song synchronized recording: Instead of [Record], press [A-B Repeat],

Recording Model instead of [Record].

Pause

Press



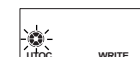
- The recording light flashes red.
- Press it again to resume recording. The track number will increase by one.

During sync recording, single-song sync recording, or automatic voice recording (see page 12),

Cannot be operated.

Stop → Power "Off"

電源切



- "UTOC WRITE" turns off, and the recording indicator flashes. Once the indicator turns off, recording is complete.
- The power will turn off automatically after about 1 minute.
- Pressing this button after recording is complete will also turn off the power.

Checking the remaining recording time on the disc

While recording is paused or in progress, the display changes each time you press the button

表示



Remaining recording time (Example: approx. 296 min 49 sec)

Displayed depending on the recording mode)



Recording time

ROT7709

Record (continued)

Synchronized Recording / Single-Song Synchronized Recording / Automatic Voice Recording (VOS Recording)

Each type of recording can only be performed when "o" is displayed in the table below.

When adjusting the recording sensitivity manually (see page 13), use normal recording (see right,

Please set it to (MANUAL) before proceeding.

- Sync Recording (SYNC) [Digital connection Analog connection Only]
Recording starts and pauses automatically in sync with the source. [Silent When this state lasts for about 7 seconds with a digital connection or about 2 seconds with an analog connection,
(Pauses.)
- Single-Track Sync Recording (SYNC-1) [Digital connection Only] Synchro-records only track 1 of the CD and automatically pauses when finished. If you change the CD and play track 1, recording starts automatically.
- Automatic Voice Recording (MIC VOS) [Only when recording with the built-in

microphone]

Recording starts automatically when the built-in microphone detects sound above a certain level, and pauses when the sound level drops. However, the track number does not increase.

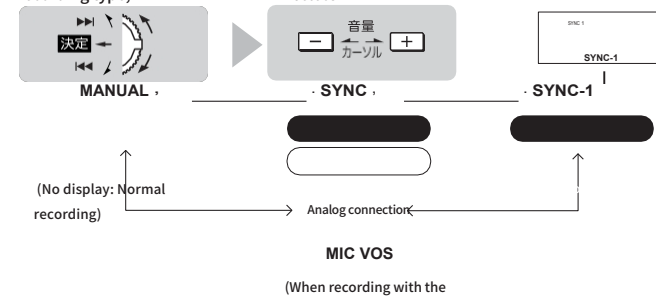
This reduces the amount of empty recording space and allows for efficient recording.

	Synchronized Recording (SYNC)	Single-Track Sync Recording (SYNC-1)	Automatic Voice Recording (MIC VOS)
Built-in Microphone	×	×	✓
Digital connection	✓	✓	×
Analog connection	✓	×	×
External microphone connection	×	×	×

- An "x" indicates that even if set, all recordings will be made in normal mode (as shown on the right, MANUAL).

After completing step ② on page 10 or 11, turn the dial to "SYNC MODE" recording type,

Press to select the select



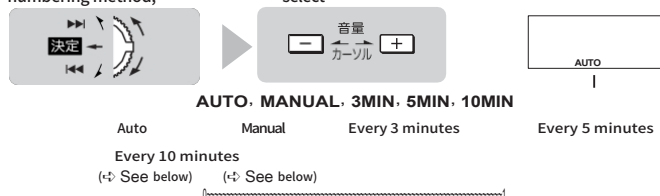
- Please note that if you set this to "SYNC," recording will start automatically when you press [Record] if an audio signal is constantly present, such as from CS/BS broadcasts or FM broadcasts.
- If set to "MIC VOS," the first 3 seconds of audio will always be recorded, regardless of the volume of the sound source.

How to Assign Track Numbers

Each track is identified by a track mark recorded during recording. You can choose how track numbers are assigned.

After step 7 on pages 10 or 11, turn the dial to "MARK MODE" numbering method,

Press to select the track select



- When recording with an external or built-in microphone, even if set to AUTO, recording will be done in MANUAL mode.

Track numbers are assigned automatically (AUTO)

- When recording via a digital connection to a CD or MD
 - Follows the track numbers on the CD or MD.
- When recording via an analog connection or a digital connection other than CD or MD
 - When there is 2 seconds or more of silence.

Depending on the track, recording may not be accurate.

After recording, edit the track to correct the position. (Pages 18–19)

Assigning track numbers manually (MANUAL)

Main unit Remote control

press the button at the point where you want to assign a track number

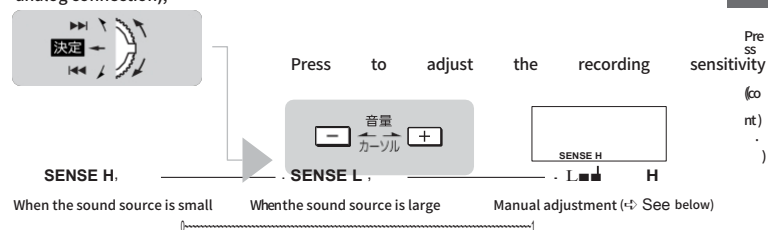


- You can assign track numbers using this procedure even if you select an option other than "MANUAL"

Adjusting the recording sensitivity • Only when connected to a recording device (See page 9)

During recording the sensitivity is automatically set to an appropriate level, but you can adjust if necessary.

After step 7 on page 11, turn the dial to select "ExMicSense" (when recording with an external microphone), "D-IN Sense" (when recording via a digital connection), or "A-IN Sense" (when recording via an analog connection),

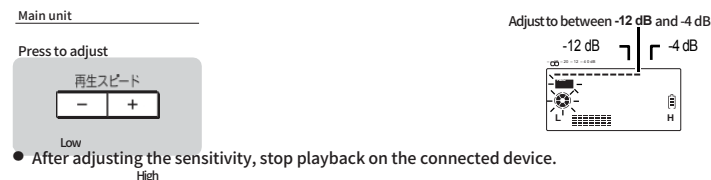


- Recording sensitivity suited to the recording conditions
 - SENSE H: When recording via a digital connection to a CS tuner When recording via a microphone at meetings, etc.
 - SENSE L: When recording via an analog connection to stereo equipment When recording loud sounds via a microphone, such as at a live performance

Manual adjustment

Preparation: - Connect the remote control and stereo in-ear headphones to the main unit, hold down [⏮, Pause], press [Record], and set the unit to recording standby
- Set to normal recording (MANUAL, page 12)

After playing back the connected device or bringing the external microphone close to the sound source, select L ■ H, and while listening through the stereo in-ear headphones,



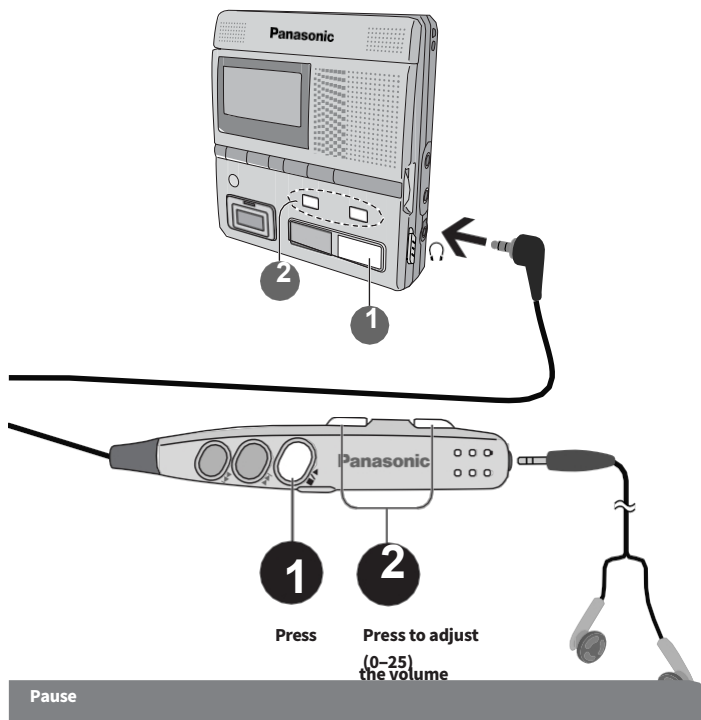
- After adjusting the sensitivity, stop playback on the connected device.
- When recording via a digital connection, the volume of the sound you heard does not change while the recording sensitivity is being adjusted.

ROT7709

Play

• Insert a recorded MD and release the hold. (Page 8)

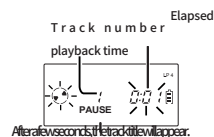
If you are listening through the speakers, remove the remote control.



Pause

Cannot operate

Main Unit
Press (Press again to resume playback.)



Fast Forward/Rewind (Search)

Remote control

Main unit

While playing, hold down

While playing, press and turn



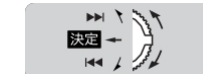
Skip

Remote

Main Unit

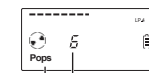
Press

Rotate



- While playing, press twice in a row to go back to the previous track. (1 = 1)

2 Press within 10 seconds



Stop ⇒ Power "Off"

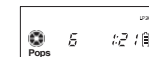
Remote control

Main unit

Paused

Press

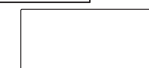
Press



- The power will turn off automatically after about 1 minute.

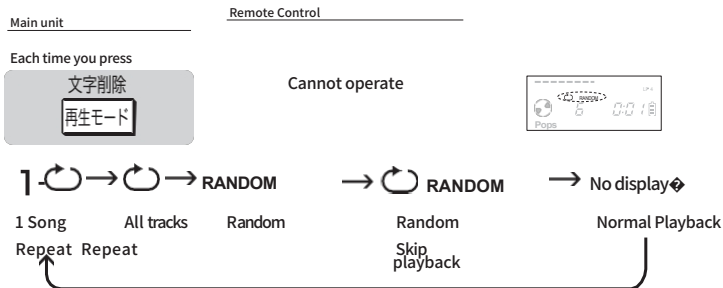
- Pressing this button while the unit is paused will turn off the power. (Main unit only)

Power "Off"



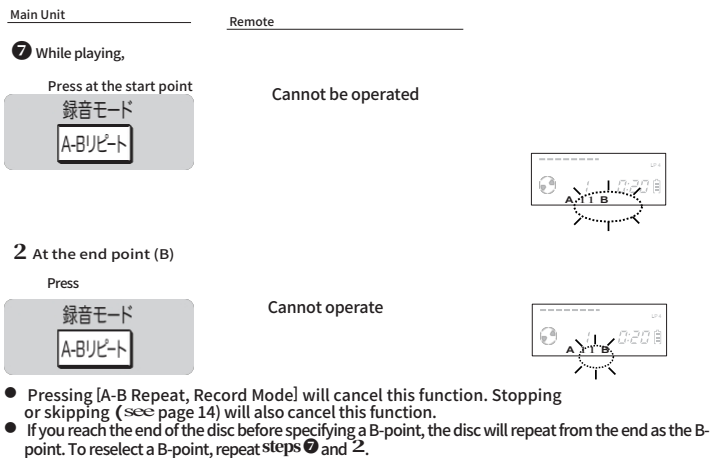
Get the Most Out of It

Repeat Play / Shuffle Play

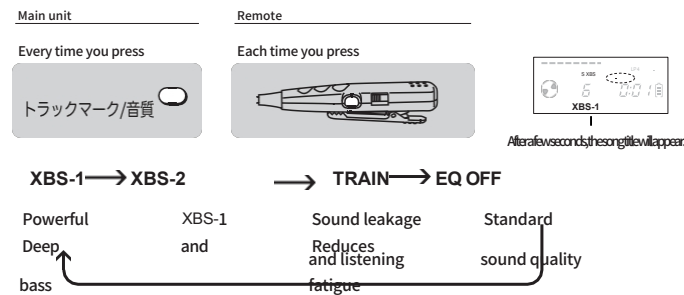


- You cannot skip to a song that has already finished playing while in shuffle mode using the remote control.
- During single-song repeat or shuffle, you can search within the currently playing song.

Repeat a specific section (A-B repeat)

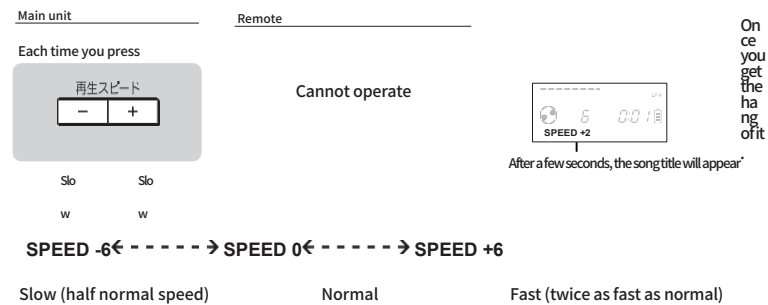


Change sound quality



- When using speakers, the sound quality does not change. "EQ OFF" will be displayed (Repeat).

Change playback speed



- Turning the power "Off" (page 14) will return playback to normal speed.

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Advanced Features (continued)

Listening to your favorite groups (Group Play)

You can play discs that have been grouped (see page 20) by group.

Main unit

Remote control

7 While stopped, "GROUP ON"

Keep holding until the message "Operation not available" appears



Cannot operate

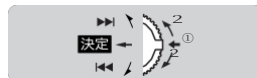


After a few seconds, the group name will be displayed, followed by the song title.

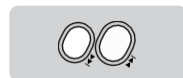
2

Wait a few seconds until your favorite group appears

Press and turn



Hold down



Group Name

Group number 1



Press 3



Cancel group playback

Press



While stopped, each time you hold down [Play Mode, Delete] (main unit)
GROUP ON, ----- GROUP OFF

Group Playback

Cancel

Switching Display Content

Main unit

Main unit Remote control

Press



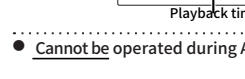
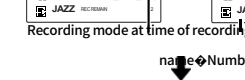
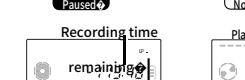
Operation not available

▶ : Changes each time you operate it.

◀ : Toggles after being displayed for a few seconds.

■ During normal

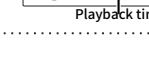
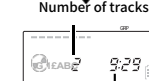
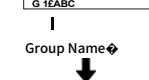
playback



■ During group playback

The total playback time, number of tracks, and track number are for the group.

Time Remaining



● Cannot be operated during A-B repeat playback.

● If no name is recorded, " " is displayed.

Other useful features

• For steps 2 and beyond, press within 9 seconds

Turn remote control confirmation beeps on or off / Adjust display panel contrast / Adjust scroll speed for disc and track names

Main unit

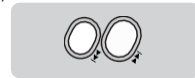
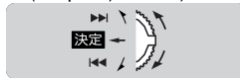
Remote control

⑦ While the unit is stopped, press several times until "MENU" appears

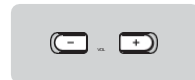


Cannot operate

② Turn (main unit) or press (remote control) to select an item ("Beep ON", "CONT 7", "SCROLL 0")

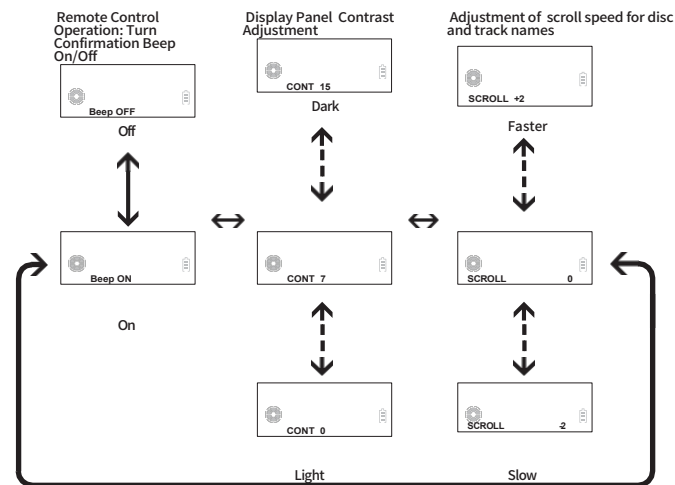


③ Press to set



■ To return to the normal screen

Press [Display] (main unit).

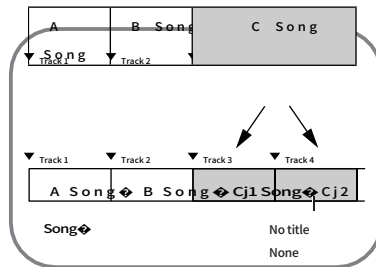


More and Master Use (continued) / Other Useful Features

RQ17709

Edit • Unit controls only

Split Tracks (Divide)

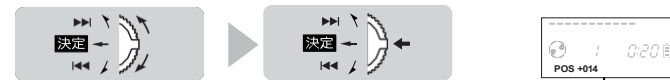


7 Press while the song you want to split is playing



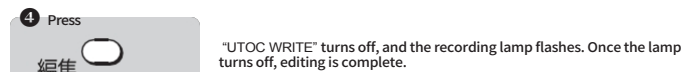
The track will repeat for about 4 seconds from the point where you pressed the button.

Turn the dial to adjust the split position (–128 to +127), then press to confirm.



"OK?" is displayed alternately.

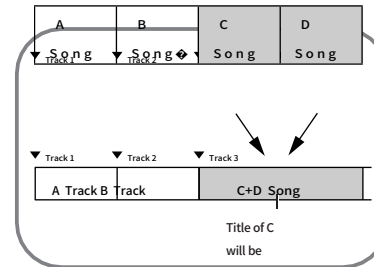
You can adjust the duration to approximately 8 seconds for Normal, approximately 16 seconds for Mono/LP2, and approximately 32 seconds for LP4.



To stop midway

Press [Power Off] before step 4

Combine Tracks

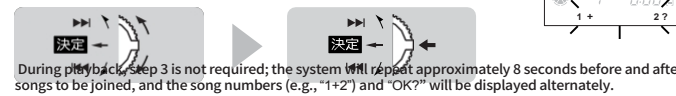


Songs recorded in different modes cannot be joined.

7 Press while stopped or while the track following the one you want to combine is playing



Press **twice** to select "COMBINE?", then press to confirm



During playback, step 3 is not required; the system will repeat approximately 8 seconds before and after the songs to be joined, and the song numbers (e.g., "1+2") and "OK?" will be displayed alternately.

3 Turn to select the track numbers of the two songs to be joined, then press to confirm (only while stopped)



"OK?" is displayed alternately

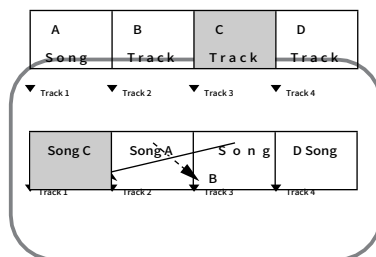
4 Press

"UTOC WRITE" turns off, and the recording lamp flashes. Once the indicator turns off, editing is complete.



Press [Power Off] before step 4

Moving a track (Move)



7 Press while paused, or while the song you want to skip to is playing



Turn the dial **twice** to select "MOVE?", then press to confirm



During playback, step 3 is not necessary, and the destination track number will flash.

Turn the dial to select the track number, then press to confirm (only when stopped)



4 Turn to select the track number to move to, then press to confirm



"OK?" is displayed alternately

5 Press



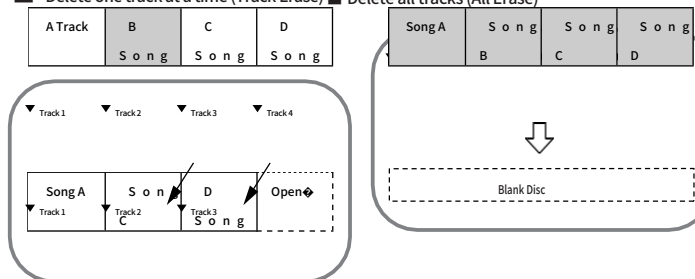
"UTOC WRITE" turns off, recording indicator flashes Once the indicator turns off, editing is complete.

■ Stop midway

Press [■, Power Off] by step 5

Deleting a track

■ Delete one track at a time (Track Erase) ■ Delete all tracks (All Erase)



7 Press (To delete all tracks, press only while stopped)



Rotate **twice** to select either "ERASE?" or "ALL ERASE?", then press to confirm



If you want to delete the currently playing song or all songs, step 3 is not necessary.

3 Turn the dial to select the track number to delete, then press to confirm



4 Press

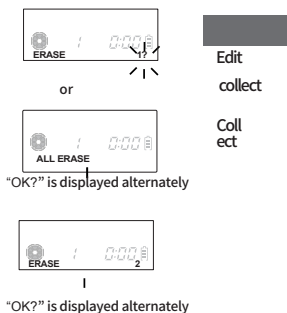


"UTOC WRITE" turns off, and the recording lamp stops flashing; editing is complete.

● If you erase all tracks, "BLANK DISC" will be displayed.

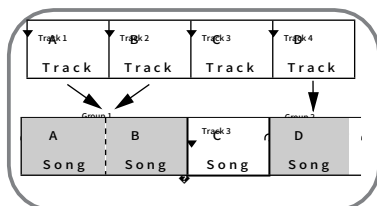
■ Stop midway

Press [■, Power Off] by Step 4



Edit (continued) • Main unit operations only

Create a group of consecutive tracks (Group) • Maximum of 99



- You cannot group songs that are not consecutive.
- You can name the group. (See Step 6)
- You can create a group with just one song.
- You cannot place a single song in multiple groups.
- The order of the groups is determined by the song numbers (lowest first), not the order in which they were edited.

Creating a group (Group Set)

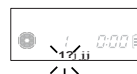
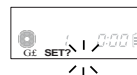
7 Press while stopped



Turn **twice** to select "GROUP?", then press to confirm

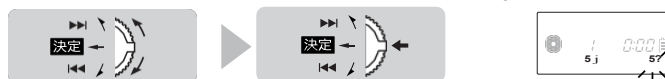


3 Press to confirm "SET?"



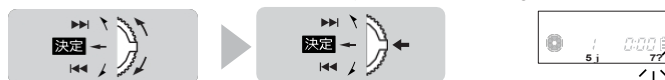
The first track number you want to include in the group

4 Turn the dial to select the first track number you want to include in the group, then press to confirm



Select the last track number

Turn the dial 5 times to select the last track number you want to include in the group, then press to confirm



After confirmation



After 2 seconds



Character input screen

6 Enter the characters (* page 23)

7 Press



"UTOO WRITE" turns off, recording lamp flashes. Editing is complete once the lamp turns off.

Stop midway

Press [■, Power Off] by Step 7

Playback and editing on devices that do not support the group function

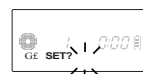
- The disc name will not be displayed correctly.
- Editing operations such as DIVIDE or COMBINE may render group management information unusable.

■ Changing the group name (Group Title)

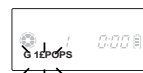
⑦ Press while stopped



② Turn the dial to select "GROUP?", then press to confirm



③ Turn the dial to select "TITLE?", then press to confirm



④ Turn the dial to select the group you want to rename, then press to confirm



⑤ Enter text (page 23)

⑥ Press



"UTOCH WRITE" turns off, and the recording lamp flashes. Once the lamp turns off, editing is complete.

Press [■], Power Off by Step 6

■ Release the group (Group Release)

⑦ Press while stopped



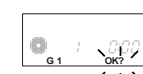
② Turn to select "GROUP?", then press to confirm



③ Turn the dial to select "RELEASE?", then press to confirm



④ Turn to select the group to unlock, then press to confirm



⑤ Press



"UTOCH WRITE" turns off, and the recording lamp blinks. Once the lamp turns off, editing is complete.

Press [■], Power Off by Step 5

Name the MD • Main unit operation only

Assigning disc and track names to recorded MDs

Both disc and track names are limited to 100 characters. A single MD is limited to 1,792 characters.

Examples where the number of characters that can be entered is reduced:

- Songs recorded on LP2 or LP4. (Because "LP:" is already recorded.)
- Discs with many group settings. (Because group management information is recorded.)

7 Press while stopped

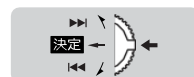


Press **2**



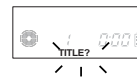
3

A Press to enter a disc name



© To assign a song title

Turn the dial to select a track number, then press to



Text input screen



After confirmation



Text input screen

4 Enter characters (see page 23)

5 Press



"UTOO WRITE" turns off, and the recording lamp blinks. Once the lamp turns off, editing is complete.

me, the track number selection screen (← Step 3③) appears, and you can

- After entering the track name, the screen will switch to the next track name entry screen, and you can continue entering track names.

- To enter a track name during playback

After pressing [Edit] (when "TR TITLE?" is displayed), follow steps 2, 4, and 5.

- Playback will repeat until a track name is entered.

- To stop during playback

Press [■, Power Off] before completing step 5

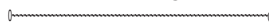
Enter text

Step 6 on page 20, Step 5 in "Renaming a Group" on page 21, or Step 4 on page 22, please follow the instructions below.

Press **7** to select the character type



Katakana # Uppercase English # Lowercase English # Numbers and symbols

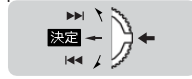
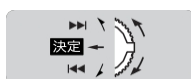


Character type	Available characters
Katakana	A I U E O Ka Ki Ku Ke Ko Sa Shi Su Se So Ta Chi Tsu Te To Na Ni Nu Ne No Ha Hi Fu He Ho Ma Mi Mu Me Mo Ya Yu Yo Ra Ri Ru Re Ro Wa O N * ° A I U E O Ka Ki Ku Ke Ko Sa Shi Su Se So Ta Chi Tsue To Na Ni Nu Ne No Ha Hi Fu He Ho Ma Mi Mu Me Mo Ya Yu Yo Ra Ri Ru Re Ro Wa O N
Uppercase English letters	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Lowercase letters	abcdefghijklmnopqrstuvwxyz
Numbers and symbols	0123456789 !"#\$%&'()*+,-./:;<=>?@_`

- The "/" symbol cannot be entered consecutively.
If there are consecutive "/" characters after deleting a character, that character cannot be deleted.

Please delete the space first.

Turn **twice** to select a character, then press to confirm



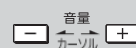
After confirming the character,

You can continue entering text.

- To stop entering text, press **■**, Power Off]

Delete characters

Press **7** to select the character to delete



Press **2**



Correcting characters

Press **7** to select the character to correct



Press **2**



enter **3** characters (see left)

Add text

Press **7** to select where to add



Press **2** Enter text (see left)

Uppercase, lowercase

Example: A⇄a, ツ⇄ッ

Press **7** Tap to select the character you want to change

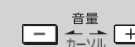


Press **2**

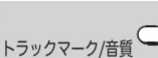


Add a space

Press **7** Tap to select the position where you want to add it



Press **2**



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RC17709

Naming the MD (continued) • Main unit operation only

Copying a name to another MD (Title Station)

- You can copy names only when the number of tracks is the same on the recording MD. Group settings are also copied.
- If you copy track names recorded in LP2 or LP4 to tracks recorded in standard stereo, "LP:" will appear before the track name.
- If you copy to an MD that already has a disc name, the previous disc name will be replaced by the new one.

7 Insert the source MD

2 Press while stopped



3 Turn to select "TitleCOPY?", then press to confirm



4 Remove the MD

5 Insert the destination MD



6 Press



■ Stop midway

Press [■, Power Off] by Step 6

"UTOO WRITE" turns off, recording indicator flashes Once the indicator turns off, editing is complete.



↓ 2 seconds later



"DISC" is displayed alternately



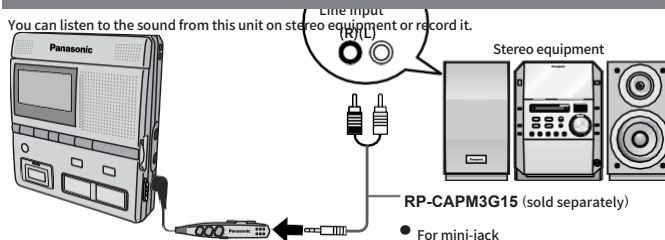
"DISC" flashes

Use with other devices

- Turn off the power to this unit before connecting it, and be sure to read the instruction manual for the device you are connecting to carefully.
- Model numbers are current as of September 2004. They are subject to change.
- If the confirmation tone is bothersome during remote control operation, turn it off (Page 17)

Connecting to Stereo Equipment

You can listen to the sound from this unit on stereo equipment or record it.



- Set the volume of this unit to 20-23 and the sound quality to EQ OFF (page 15).
- Introduction to other optional accessories
- Stereo in-ear headphones: RP-HJ535, RP-HJ337
 - Headphones: RP-HT870

About Copyright

Recordings you make may not be used without the rights holder's permission under copyright law, except for personal enjoyment. Please note that the price of this product includes a private recording levy as stipulated by copyright law. Contact:

Private Recording Compensation Management Association (Inc.) ☎ 03-5353-0336

- Broadcasts, records, and other sound recordings (music tapes, karaoke tapes, etc.) are protected by copyright, just like song lyrics and musical compositions. Therefore, you may not sell, distribute, or otherwise use MDs or tapes recorded from them in stores, transfer, or lend them, as well as for commercial purposes (such as background music in stores). When using for commercial purposes, permission from the copyright holder is required under copyright law.
- As usage conditions vary depending on the situation, please refer to the "Japan Society for Rights of Authors, Composers and Publishers" (JASRAC) for details, applications, and other procedures. , please contact the head office or your nearest branch of the "Japan Society for Rights of Authors, Composers and Publishers" (JASRAC). your nearest branch office.

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Branch ☎ (03)5286-1671	☎ (099)224-6211
Tachikawa Branch ☎ (042)529-1500	Naha Branch ☎ (098)863-1228
Yokohama Branch ☎ (045)662-	

6551

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System Limitations of the MD

These limitations

Due to certain limitations in the MD recording system, the following symptoms may occur; however, this does not indicate a malfunction.

"UTOO FULL" is displayed even though the maximum recording time has not been reached.	Once 254 songs have been recorded, you cannot record any more.
"DISC FULL" is displayed even though there is still plenty of space for both tracks and recording time.	- This happens with MDs that have been repeatedly recorded on and edited. - If the MD is scratched, you may not be able to record.
You may not be able to join or split tracks.	
When fast-forwarding or rewinding, the sound may cut out.	
Deleting a track does not increase the remaining recording time.	The remaining recording time display ignores the following tracks. For this reason, deleting multiple short tracks may not increase the remaining recording time. Standard stereo recording: 12 seconds or less; Mono, LP2 recording: 24 seconds or less; LP4 recording: 48 seconds or less
The total of the recording time and remaining time does not equal the maximum possible recording time.	Even when recording audio of 2 seconds or less in standard stereo, approximately 2 seconds of disk space is used, so the actual recording time may be shorter. (LP2 recording: 4 seconds, LP4 recording: 8 seconds)

Q&A (Frequently Asked Questions)

Q (Question)

A (Answer)

I want to overwrite a recording on a pre-recorded MD.	You cannot overwrite recordings. If there is little recording time remaining, please delete unnecessary tracks before recording. (Page 19)
I want to record after the existing recording on the MD.	Recording will automatically continue from where the previous recording left off, so please just start recording.
What happens if I change the volume during recording?	It will not affect the recorded sound.
The output from the source device is low.	Please use the recommended connection cable. (Page 9)
How do I switch between stereo, mono, and MDLP playback?	It switches automatically.
Can MDs recorded in LP2 or LP4 mode be played on any model?	MDLP They cannot be played on unsupported devices. "LP:" will appear at the beginning of the track name, and the track will be silent.
I want to set the unit to recording standby	While holding down [Pause],

When this display appears • alternates between the preceding and following displays.

BLANK DISC	No tracks have been recorded on the disc.
Can't COMBINE	Cannot combine due to MD system limitations.
Can't COPY , (SCMS)	You cannot copy from an MD recorded via a digital connection. Copying is possible via an analog connection. (Page 9)
Can't DIVIDE	Cannot split due to MD system limitations.
Can't EDIT	The group editing or MD name copying operation is incorrect. (Pages 20–21, 24)
P/B DISC	You attempted to record on a playback-only MD or edit a playback-only MD.
DIGITAL IN , UNLOCK	An optical digital cable is not connected to the connected device. The connected device is not turned on, or even if it is, the skip function has not been turned off.
DISC FULL	There is no remaining recording time on the MD.
DISC , PROTECTED	The MD is in write-protect mode. (Page 8)
Emg-STOP	An error occurred during recording. Please reinsert the MD.
F17	There is a problem with the magnetic head. Please consult your dealer.
F17 LoTEMP F17 HiTEMP	The unit is not being used in an environment between 0°C and 50°C.
GROUP DATA , FULL	You cannot create groups, separate tracks, or move them. Please delete the group name or ungroup the tracks. (Page 21)
HOLD	The unit is in hold mode. (See page 8)

NO DISC	No MD is inserted.
NO GROUP	An MD that has not been assigned to a group is inserted.
SYSTEM ERR	A self-diagnosis has detected a malfunction. Please consult your dealer.
TITLE FULL	You are attempting to enter a title longer than 101 characters. You cannot enter more than 101 characters.
TITLE OVER	You are trying to edit a title of 101 characters or more that was entered on another device. Characters beyond the 101st character will be automatically removed and you can only edit within a 100-character limit.
TOC ERR	There is a problem with the MD, or it is damaged.
TOC READ	Reading MD information.
TrackNO , NOT SAME	If the number of tracks on the source and destination MDs differs, cannot be copied.
TR PROTECT	The track is protected. Please confirm whether you want to edit before proceeding.
U01 LoBATT	The battery is low.
UTOC FULL	There is not enough space to write the title. You are attempting to record onto an MD that already contains the maximum number of tracks (254) or tried to split tracks.
UTOC WRITE	Writing information to the MD.

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Is it broken!?

Before requesting repairs, please check your symptoms against this chart. If the problem persists after trying these steps, or if you experience symptoms not listed here, please contact the store where you purchased the product.

■ Charging

Unable to Charge	- Is the AC adapter connected properly? Try unplugging and plugging it back in. - Are you using the specified rechargeable battery? - Is the power turned off?
Recording/playback time is short even after charging	- The recording/playback time may be short during the first charge or after a long period of non-use. It will return to normal after a few uses. - If the recording/playback time remains extremely short even after charging, the battery has reached the end of its life battery has reached the end of its life (approx. 300 charge cycles).
The AC adapter gets hot during charging	It may get slightly warm, but this is not abnormal.

■ General Operation

Cannot operate Cannot play	- Is the hold function enabled? (Page 8) - Is the battery low? - Is there condensation on the unit? (Wait about an hour before using.) - The lens may be dirty. Clean it with one of the two types of cleaners. - MD Lens Cleaner (sold separately: RP-CL310) - MD Head Cleaner (sold separately: RP-CL320)
No sound is coming from the speakers	- No sound is heard during recording. - Is the remote control still plugged in?

■ About recording

Cannot record	- A playback-only disc is inserted. - The anti-erase switch is open. (Page 8) - Connect to other devices correctly. (Page 9) - When recording via a digital connection from a portable CD player, some models can only record when connected to an AC adapter. Please switch the portable CD player's power source to the AC adapter.
You cannot record the entire CD (Page 11)	- Record for a long time using LP2 or LP4. (Page 11) - Check the remaining recording time on the disc. (Page 11)
Momentary noise occurs during recording	With LP4 recording, due to the nature of the compression method, this may occur very rarely depending on the source. Normally, record in stereo or LP2.
The beginning of a track is cut off during sync recording	depending on the song. Cancel the sync recording setting (page 12) and .
Single-track sync recording is not possible	Recording is possible only for track "1". You cannot record on any other track numbers.
A beeping sound occurs when recording with the built-in (or external) microphone	- Move the stereo earbuds away from the unit (or external microphone). - Turn down the volume on the unit.

■ About playback

Cannot start playback from the first track	● Is the player set to shuffle mode? (Page 15) ● Is the resume function not working? (Page 3) ● Is the player set to group playback? (Please turn off group playback. ` Page 16)
No sound, sound is hard to hear, or there is noise Sound cuts out	● Are the stereo in-ear headphones and remote control plugs inserted all the way? ● Is the plug dirty? ● Is your mobile phone too close? ● When recording with the built-in microphone, the unit's operating noise may also be recorded, resulting in background noise. If this bothers you, we recommend connecting an external microphone (page 9) and record away from the unit. ● If the device is subjected to continuous, intense vibration, the playback time display may disappear and the sound may cut out.
When playing back a recorded MD, the sound may be faint	● If you are connected to another device via the headphone output jack, adjust the volume on the connected device before recording. ● The recording sensitivity was low. (Page 13)
Repeat, Random, and Group Playback are canceled	● Opening or closing the lid, replacing the batteries, or recording or editing will return playback to normal.
Unable to specify A-B repeat section	● You may not be able to specify a section at the end of the disc.

■ About Editing

Disc names or track names are cut off or not displayed	● Have you exceeded the maximum number of characters that can be recorded on the disc? (Please rename the disc using fewer characters. ` Pages 22–23)</li> <li>● Did you enter the information on a device that does not support the group function? (Please re-enter the information on this unit. ` Pages 22–23)
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■ Other

The unit does not turn on	● Try disconnecting all power sources.
The unit's cover will not open	● The lid cannot be opened while recording or editing.
The remote control isn't working properly	● Unplug the remote control and plug it back in firmly. ● Using any remote control other than the one provided may cause malfunctions.

Malfunction

or ?

Warranty and After-Sales Service (Please read carefully)

For inquiries regarding repairs, handling, or care

For inquiries regarding...

Please contact the store where you purchased the item

Please contact

If you are having trouble due to moving or a gift...

- For repairs, please contact the "Repair Consultation Desk" at your service provider or retailer!
- For inquiries regarding usage or purchases, please contact the "Customer Support Center"!
- Warranty Card (Please see the back cover)
Please ensure that the purchase date and retailer name are correctly filled in, and obtain this document from the retailer where you made your purchase. Please read it carefully and keep it in a safe place.

Warranty Period: 1 year from the date of purchase

- Retention Period for Replacement Parts
We will retain functional replacement parts for this portable MD recorder for 8 years after production is discontinued.
Note: Repair parts are parts necessary to maintain the functionality of the product.

When Requesting Repairs

If the problem persists after checking the "Is it broken?!" table on pages 28–29, first unplug the AC adapter and contact the store where you purchased the product.

- During the warranty period
the retailer where you purchased the product will perform repairs in accordance with the terms of the warranty, so please bring the product along with the warranty card.
- If the warranty period has expired
For products that can be used after repair, we will repair them upon request. Please refer to the repair fee structure below and contact us for consultation.

Repair Fee Structure

Repair fees consist of labor charges, parts costs, and service call fees. Labor charges cover the costs associated with diagnosis, repair of the faulty part, parts replacement, adjustments, and inspection upon completion of the repair.

☐ covers the cost of parts and auxiliary materials used for the repair.

☐ Parts This covers the cost of dispatching a technician to the product's location.

Information to Provide			
Product Name	Portable MD Recorder	Date of Purchase	Year Month Day
Model Number	SJ-MR50	Fault Description	Please be as specific as possible

Questions about usage, shopping, etc.

National/Panasonic Customer Support Center

365 days a year / Hours: 9:00 AM – 8:00 PM

0120-878-365

Phone Toll-free 
 For use from mobile phones and PHS... **06-6907-1187**
 FAX Number Toll-free 
0120-878-236

Help Desk for Foreign Residents in Japan

<Consultation Desk for Foreign Residents / Overseas-Spec Products (Tourist Products, etc.)>

Tokyo (03) 3256-5444 Osaka (06) 6645-8787

Open: 9:00 AM – 5:30 PM (Closed on Saturdays, Sundays, and national holidays)

Repair Inquiries

National/Panasonic Repair Consultation Desk

Navi Dial (Nationwide Number)

 **0570-087-087**

- You will be connected to the repair consultation desk nearest to your location. NTT will provide an estimate of the call charges before the dial tone.
- If calling from a mobile phone, PHS, or similar device, please dial the nearest repair consultation desk directly.

Please see the right-hand page for your nearest repair consultation desk.

-
-

National/Panasonic Repair Consultation Desk

North		
Hokkai	Hokkai	Region
do	do	do
Sapporo, Atsubetsu Ward, Atsubetsu Minami 2-chome 17-7 ☎ (011) 894-1251 Asahikawa, 21-chome, 2-jo Dori, Left 1, Asahikawa City ☎ (0166) 31-6151	Obihiro: 1-7-11 Nishi 19-jo Minami, Obihiro City ☎ (0155) 33-8477	Hakodate: 241, 589 Nishi-Kkyo, Hakodate ☎ 589-241 (Inside the Hakodate Distribution Wholesale Center) ☎ (0138) 48-6631
East Hokuto		
Hokkai	Hokkai	Region
do	do	do
Aomori, Aomori City, Daini Monya-cho 3-7-10 ☎ (017) 739-9712 Akita, Akita City, Gosono-Yumoto 2-1-2 ☎ (018) 826-1600	Iwate: 30-3, 13-chome, Haba, Morioka City ☎ (019) 639-5120 Miyagi: 7-4-18 Ogimachi, Miyagino Ward, Sendai City ☎ (022) 387-1117	Yamagata, Yamagata City, Ryutsu Center 3-chome 12-2 ☎ (023) 641-8100 Fukushima: 6-1 Minami-no-uchi, Motomiya-machi, Adachi-gun, Fukushima Prefecture ☎ (0243) 34-1301
Metropolitan Area		
Hokkai	Hokkai	Region
do	do	do
Tochigi: 19-2-20 Miyuki-cho, Utsunomiya City ☎ (028) 689-2555 Gunma: 229-1 Osawa-cho, Takasaki City ☎ (027) 352-1109 Ibaraki, Tsukuba City, Hanahata 2-chome 8-1 ☎ (029) 864-8756	2-4-2 Akahori, Okegawa City, Saitama ☎ (048) 728-8960 Chiba, Chiba City, Chuo Ward, 172 Hoshikuki-cho ☎ (043) 208-6034 Tokyo: 2-26-17 Miyasaka, Setagaya-ku, Tokyo ☎ (03) 5477-9780	Yamanashi: 1-1-1 Fuji City, Takara 1-chome ☎ (055) 222-5171 Kanagawa, Yokohama, Konan Ward, Hino 5-3-16 ☎ (045) 847-9720 Niigata, Niigata City, Higashi-Ake 1-chome 8-14 ☎ (025) 286-0171
Central Region		
Central	Central	Region
al	al	al
Ishikawa: Ishikawa Prefecture, Ishikawa District Nonoichi-machi Inari 3-chome 80 ☎ (076) 294-2683 Toyama: 1298 Terajima, Toyama City ☎ (076) 432-8705 Fukui: 112, 4-chome, Kaihatsu, Fukui City ☎ (0776) 54-5606	Nagano: 7600-7 Sasaga, Matsumoto City ☎ (0263) 86-9209 Shizuoka: 765 Nishijima, Shizuoka City ☎ (054) 287-9000 Nagoya, 8-10 Shiiori-cho, Mizuho Ward, Nagoya City ☎ (052) 819-0225	Okazaki: 28 Minamikubo, Okazaki City ☎ (0564) 55-5719 Gifu: 2-30 Takaya-Taishi, Kitakajicho, Mototsu-gun, Gifu Prefecture ☎ (058) 323-6010 Takayama: 3-82 Hanaoka-cho, Takayama City ☎ (0577) 33-0613 Mie: 1920-3 Kitatani, Mori-cho, Hisai City ☎ (059) 255-1380

Near Kinki Regional		
Near	Kinki	Regional
ct	ct	ct
2-1, Katsube 6-chome, Moriama City, Shiga ☎ (077) 582-5021 Kyoto, Fushimi Ward, Takeda, Nakagawara-cho 71-4 ☎ (075) 672-9636	Osaka: 1-1-7 Honjo Nishi 1-chome, Kita Ward, Osaka City ☎ (06) 6359-6225 Nara: 800 Tsutsui-cho, Yamatokoriyama City ☎ (0743) 59-2770	Wakayama: 499-1 Nakajima, Wakayama City ☎ (073) 475-2984 Hyogo, Chuo Ward, Kobe City 3-2-6 Kotono-cho ☎ (078) 272-6645
Naka National Region		
Naka	National	Region
Ward	Ward	Ward
Tottori: 295-1 Yasunaga, Tottori City ☎ (0857) 26-9695 Yonago: 4-2-33 Yonahara, Yonago City ☎ (0859) 34-2129 Matsue: 14-182 Heisei-cho, Matsue City ☎ (0852) 23-1128	Izumo: 416 Watahashi-cho, Izumo City ☎ (0853) 21-3133 Hamada, Shimofu-cho, Hamada City ☎ (0855) 22-6629 Okayama: 807 Yao, Hayashima-cho, Tsukubogun, Okayama Prefecture ☎ (086) 292-1162	Hiroshima: 8-13-20 Minami-Kannon, Nishi Ward, Hiroshima City ☎ (082) 295-5011 Yamaguchi: Chusenji, Yamaguchi City 44 7-23 North of Jichusenji Housing Complex ☎ (083) 986-4050
4 Regional		
4	Regional	Regional
Prefecture	Prefecture	Prefecture
Kagawa: 152-2 Teshicho, Takamatsu City ☎ (087) 868-9477 Tokushima: 108 Kaya, Taihama, Kitajima-cho, Itano-gun, Tokushima Prefecture ☎ (088) 698-1125	Kochi: 331-1 Nakajima, Okayutomi-cho, Nankoku City ☎ (088) 866-3142	Ehime: 750-2 Doida-cho, Matsuyama City ☎ (089) 971-2144
Kyushu Region		
Kyushu	Kyushu	Region
u	u	u
Fukuoka: Kasuga City, Kasuga Park 3-chome 4-8 ☎ (092) 593-9036 Saga: 3044 Kamifukamachi, Hachino, Oaza, Nabeshima-machi, Saga City ☎ (0952) 26-9151 Nagasaki: 1949-1 Higashimachi, Nagasaki City ☎ (095) 830-1658	Oita: 4-8-35 Hagiwara, Oita City ☎ (097) 556-3815 Miyazaki: 2099-2 Kusaba, Hongo Kitagata, Miyazaki City ☎ (0985) 63-1213 Kumamoto: 12-3 Kengun Honmachi, Kumamoto City ☎ (096) 367-6067	Amakusa: 18-11 Minatomachi, Hondori City ☎ (0969) 22-3125 Kagoshima: 1-5-33 Yojiro, Kagoshima City ☎ (099) 250-5657 Oshima, 10-1 Nagahama-cho, Naze City ☎ (0997) 53-5101
Oki Okinawa Okinawa		
Oki	Okinawa	Okinawa
ct	ct	ct
23-11 Shirogane 4-chome, Urasoe City, Okinawa ☎ (098) 877-1207		

Warranty and After-Sales Service

8017709

Main

- These specifications are subject to change for performance improvement.

Type: MiniDisc digital audio system
 Recording method: Magnetic field modulation overwrite method
 Reading method: Non-contact optical method using a semiconductor laser ($\lambda = 780 \text{ nm}$)
 Error correction method: Advanced Cross-Interleaved Reed-Solomon Code (ACIRC)
 Compression/Decompression Method: ATRAC/ATRAC3
 Method Number of Channels

Headphones: 2 channels (stereo)
 1 channel (mono); mono is playback only

Speaker: 1 channel (mono)
 Sampling frequency: 44.1 kHz

Sampling : Input 32 kHz / 44.1 kHz / 48 kHz

Rate Converter : 20 Hz to 20,000 Hz (+0 dB to -6 dB)
 Frequency

Wobble and flutter: Below measurement limit
 Response

Input Terminals

External input / Optical terminal
 Input impedance: $22 \text{ k}\Omega$

Input Level: SENS H, 178 mV / SENS L, 500 mV

Microphone terminal

Input impedance: 600Ω

Input Level: SENS H, 0.4 mV / SENS L, 2.5 mV

Output Jack

Headphone jack
 Load impedance: 16Ω

Output level: 5.0 mW + 5.0 mW

Speaker: $\phi 28 \text{ mm}$, 8Ω Maximum practical
 output: 120 mW (JEITA) (DC)

Power
 Unit
 Rechargeable battery: DC 1.2 V (included rechargeable battery)
 Dry Battery Battery: DC 1.5 V (1 AA alkaline battery)
 AC adapter: AC 100 V 50/60 Hz Input capacity: 7 VA
 Output : DC 1.8 V 500 mA

Dimensions
 (Width × Height × Depth)
 Unit Dimensions: $79.3 \times 87.4 \times 29.4 \text{ mm}$
 Maximum external dimensions: $80.9 \times 88.3 \times 23.4 \text{ mm}$ (JEITA)

Weight Weight: Approx. 142 g / Approx. 115 g (with/without rechargeable battery)

Battery life (JEITA, when placed horizontally and recording continuously via analog or the built-in microphone)

Batteries used	Stereo (Standard)	LP2 Stereo (2x Longer Life)	LP4 Stereo (4x longer playtime)
Included rechargeable battery (when fully charged)	Approx. 13/9.5 hours	Approx. 18/15 hours	Approx. 23/19 hours
AA alkaline batteries	Approx. 14/11 hours	Approx. 22/17 hours	Approx. 32/26 hours
When using both of the above	Approx. 34/25 hours	Approx. 48/40 hours	Approx. 58/53 hours

Battery life (JEITA, when placed horizontally and used continuously for headphone/speaker playback)

Battery used	Stereo (Standard)	LP2 Stereo (2x Longer Life)	LP4 Stereo (4x longer playtime)
Included rechargeable battery (when fully charged)	Approx. 26/9.5 hours	Approx. 35/10 hours	Approx. 40/11 hours
AA alkaline batteries	Approx. 43/13 hours	Approx. 60/14.5 hours	Approx. 70/15.5 hours
When using both of the above	Approx. 74/26 hours	Approx. 94/27 hours	Approx. 113/29 hours

Full charge time: Approx. 4 hours

- Battery life may be shorter depending on usage conditions.

AC adapter standby power consumption... Approx. 0.1 W

English control guide (English quick start guide)

Power Supply

Refer to the illustrations on page 7.

The rechargeable battery

⑦ Insert the battery into the unit.

② Connect the AC adapter to the [DC IN 1.8 V] port on the unit.

Charging begins.

"CHARGE" appears on the display while recharging and "CHARGE" disappears when the battery is fully charged. It takes approximately 4 hours to recharge the supplied battery.

Insert an MD

Refer to the illustration on page 8.

⑦ Slide [OPEN 1] in the direction of the arrow to open the lid.

② Slide the MD between the guides so it clicks into place.

③ Now close the lid.

Slide [OPEN 1] in the direction of the arrow to remove the disc. The disc springs out from the unit.

The HOLD Function

Refer to the illustration on page 8. Slide in the direction of

the arrow.
(Slide in the opposite direction to release.)

- The unit and remote control each have independent HOLD switches.

Recording

Recording with the built-in microphone

See the illustrations on page 10.

Preparation

- Release HOLD.
- Insert a recordable MD.

⑦ Press [A-B Repeat, Record Mode] and press [M, S, r L, Volume, Cursor] to select the recording mode when the unit is off or while stopped.

The mode changes each time you do this.

LP2 (X 2) (-----)]
: |

LP4 (x 4) |
: |

No display (Normal stereo recording) (-)

② Turn the jog dial to select "InMicSense" and press [M, S, r L, Volume, Cursor] to adjust the recording sensitivity.

The sensitivity changes each time you do this.

"SENSE H" , "SENSE L"

③ ① Press [Record] to start recording.

② Point the built-in microphone toward the source of the sound.

To stop recording

Press [M, Power Off].

- The unit will turn itself off automatically in about a minute.
- You can also turn off the unit by pressing it again while it is stopped.

Recording with other equipment or an external microphone

Refer to the illustrations on pages 9 and 11.

Preparation

- Release HOLD.
- Insert a recordable MD.
- Connect this unit to a device that has a digital output terminal or stereo LINE OUT terminals, or to a microphone.

⑦ Press [A-B Repeat, Recording Mode] and press [M, S, r L, Volume, Cursor] to select the recording mode when the unit is off or while stopped.

The mode changes each time you do this.

LP2 (X 2) (-----)]
: |

LP4 (x 4) |
: |

No display (Normal stereo recording) (-)

② ① Press [Record] to start recording.

② Start playback of the source or point the microphone toward the source of the sound.

To stop recording

Press [M, Power Off].

- The unit will turn itself off automatically in about a minute.
- You can also turn off the unit by pressing it again while it is stopped.

Playback

Refer to the illustrations on page 14.

Preparation

- Release HOLD.
- Insert an MD.
- Connect the remote control and stereo earphones, then insert the remote control's plug into the headphone jack [E] on the unit.

You can listen through the speaker without connecting the remote control

and stereo earphones.

⑦ Press [M/1] (remote control) or [1] (main unit) to start playback.

② Press [r, s, VOL] (remote control), or [M, S, r L, Volume, Cursor] (main unit) to adjust the volume.

To stop playback

Press [M/1] (remote control) or [M, Power Off] (main unit).

- The unit will turn itself off automatically in about a minute.
- You can also turn off the unit by pressing [M, Power Off] (main unit) again while playback is stopped.

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English Control Guide

English control guide (Simplified English operating instructions) (Cont.)

Editing MDs

DIVIDE (Splitting a track into two)

⑦ Press [Edit] during playback. ② Turn the jog dial to select "DIVIDE?" and press it.

A 4-second segment of the track is played repeatedly, starting from the selected point.

③ Turn the jog dial to adjust the point you want to split the track, and

press it.

Adjustments can be made approximately 8 seconds (16 seconds if the track is monaural or recorded with LP2, 32 seconds if the track is recorded with LP4) either side of the original point. (-128 to +127)

④ Press [Edit].

COMBINE (Combining 2 tracks)

⑦ Press [Edit] while playing the second of the two tracks you want to combine or while stopped.

② Turn the jog dial to select "COM-BINE?" and press it.

While playing, the last 8 seconds of the first track and the first 8 seconds of the second track play repeatedly.

③ When performed while stopped

Turn the jog dial to select the two tracks to combine.

④ Press [Edit].

Editing MDs

MOVE (Moving tracks)

Rearrange the order of the tracks.

⑦ Press [Edit].

② Turn the jog dial to select "MOVE?" and press it.

③ When performed while stopped Turn the jog dial to select the track to be moved and press it.

④ Turn the jog dial again to select the new position and press it.

⑤ Press [Edit].

TRACK ERASE (Erasing a single track)

⑦ Press [Edit].

② Turn the jog dial to select "TR ERASE?" and press it.

③ When performed while stopped Turn the jog dial to select the track you want to delete and press it.

④ Press [Edit].

ALL ERASE (Erasing all tracks)

⑦ Press [Edit] while stopped.

② Turn the jog dial to select "ALL ERASE?" and press it.

③ Press [Edit].

"BLANK DISC" appears on the display.

Titling MDs

Titling discs and tracks

Discs and tracks recorded in standard stereo recording mode can have titles of up to 100 characters. Tracks recorded in LP2 or LP4 mode can have titles of up to 97 characters.

⑦ Press [Edit] while the unit is stopped.

"TITLE?" appears on the display.

② Press the jog dial.

"DiscTITLE?" appears on the display.

③ When naming a disc

Press the jog dial again.

The text editing mode is activated.

Ⓐ When naming a track

Turn the jog dial to select the track you want to title, then press it.

This will enter text editing mode.

④ Enter the title. (See right.)

⑤ Press [Edit].

■ To title tracks while playing After pressing [Edit] ("TR TITLE?" appears), follow steps 2, 4, and 5.

Titling MDs

Entering text

⑦ Press [1] (main unit) to select the character type.

The character type changes each time the button is pressed.

Katakana	➤	English uppercase
="		="
Numerals and letters	➤	English lowercase case

② Turn the jog dial to move the cursor over the character you want to enter and press it to enter the character.

■ Deleting a character

⑦ Press [^MS, r L, Volume, Cursor] to move the cursor over the character you want to erase.

② Press [Playback Mode, Delete].

■ Correcting titles

⑦ Press [^MS, r L, Volume, Cursor] to move the cursor over the character you want to correct.

② Press [Playback Mode, Delete].

③ Enter the text.

■ Inserting an extra character

⑦ Press [^MS, r L, Volume, Cursor] to move the cursor to the location want the character to go.

② Enter the text.

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<Free Repair Policy>

- If the product malfunctions within the warranty period while being used in accordance with the instructions in the user manual, the labels affixed to the unit, and other warnings, we will provide free repairs.
 - To request a free repair, please take this document (detached from the instruction manual) along with the product to the store where you purchased it.
 - If you do not request a free repair from the store where you purchased the product, please contact your nearest service center.
- If you have moved, please consult the retailer where you purchased the product or your nearest customer service center regarding where to request repairs.
- If you received the product as a gift and cannot receive free repairs at the retailer listed on this warranty card, please contact your nearest customer service center.
- Even within the warranty period, repairs will generally be charged in the following cases:
 - Malfunctions or damage caused by misuse, improper repairs, or modifications
 - Malfunctions and damage caused by relocation of the installation site after purchase, transportation, or dropping
 - Malfunctions and damage caused by fire, earthquake, flood, lightning, other natural disasters, pollution, salt damage, gas damage (such as sulfur gas), abnormal voltage, or use of a non-specified power source (voltage, frequency), etc.
 - Malfunctions and damage resulting from installation in vehicles, vessels, etc.
 - Malfunctions and damage resulting from use for purposes other than general household use (e.g., commercial use)
 - Failure or damage resulting from the absence of this manual
 - If the date of purchase, customer name, or dealer name is not entered in this document, or if the text has been altered
 - If the product eligible for in-store repair is sent directly to the repair counter, shipping costs and other related expenses shall be borne by the customer. Additionally, if on-site repair services are provided, the customer shall bear the cost of the service call.
- This document is valid only within Japan.
- This document will not be reissued, so please keep it in a safe place.
- Please refer to the "Warranty and After-Sales Service" section of the instruction manual for the nearest service center.

Repair Note

*This warranty promises free repairs under the terms and conditions specified herein. Therefore, this warranty does not limit your legal rights. If you have any questions regarding repairs after the warranty period has expired, please contact the retailer where you purchased the product or your nearest customer service center.

*Please refer to the "Warranty and After-Sales Service" section of the instruction manual for information regarding repairs after the warranty period has expired and the retention period for replacement parts.

*This warranty is valid only in Japan.

