CASIO®

DV-01

Digital Voice Recorder
Grabadora Digital
數位錄音機
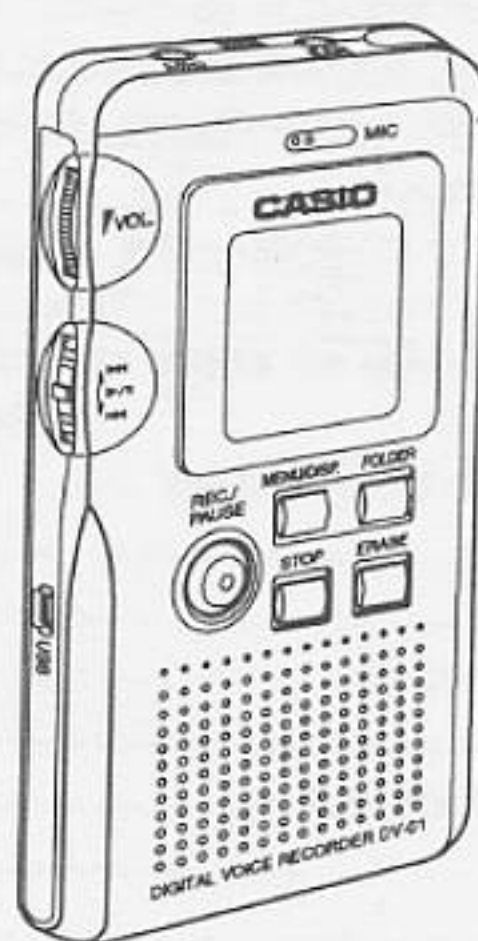
USER'S GUIDE
GUÍA DEL USUARIO
用戶說明書

ENGLISH

Contents

5901-920-0-04A

Caution

Do not allow bank cash cards, commuter passes or other magnetic cards to come in close proximity to the voice recorder. Such cards may no longer able to be used due to the magnetic effects of the speaker of the voice recorder.

Symbols Used in this Guide

The following symbols are used in this guide.

- This symbol indicates explanations of precautionary matters relating to operation. Operating the voice recorder without following their contents can result in the occurrence of problems such as damaged data or improper operation of the voice recorder. The contents of these matters are to be read carefully to ensure correct operation.
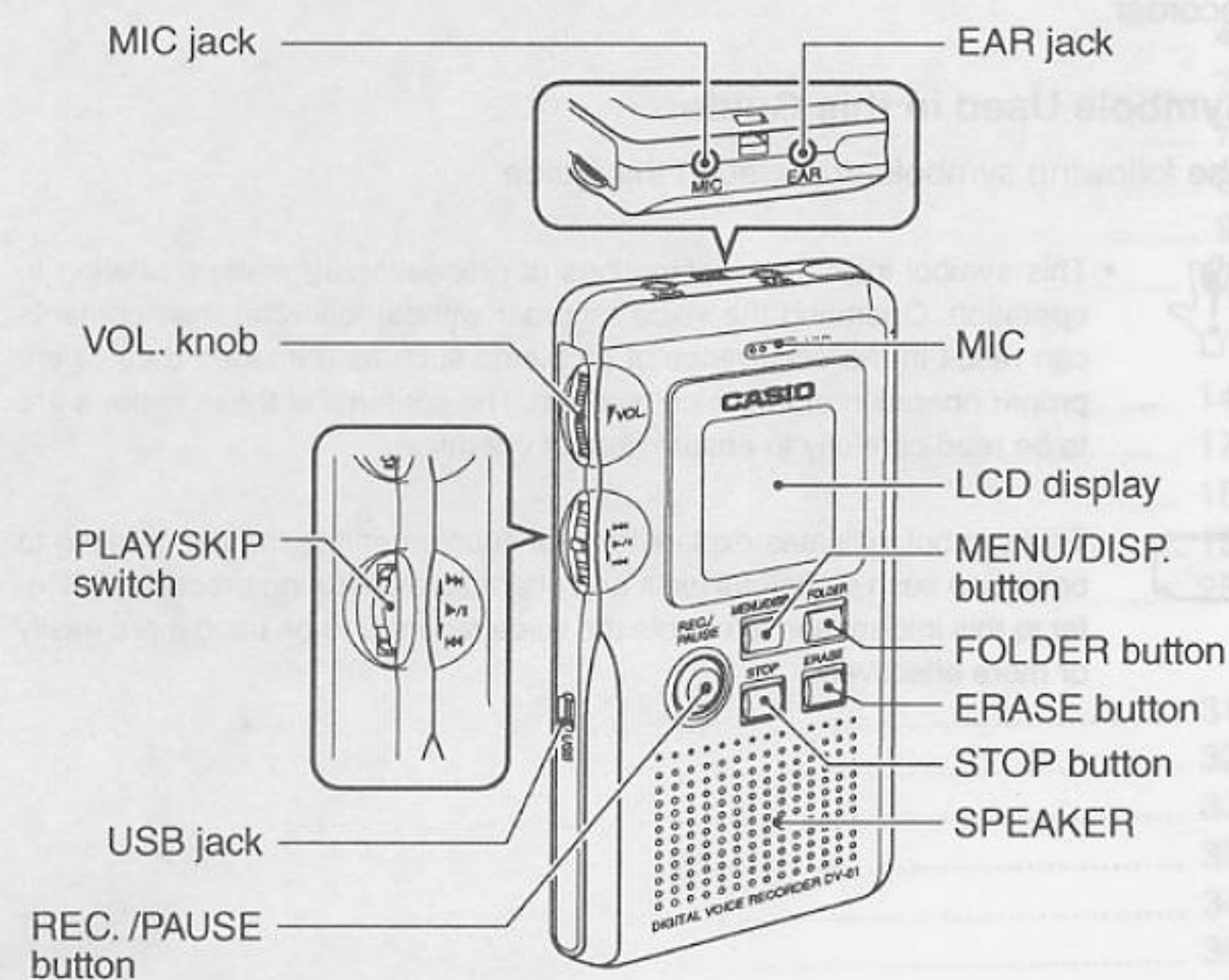
- This symbol indicates explanations of supplementary matters relating to operation such as helpful hints and alternative operating procedures. Refer to this information to enable the voice recorder to be used more easily or more effectively.

5901-920-0-04A

Preparation

Names of Components

Main Unit
Front Panel

MIC jack ———
EAR jack ———

VOL. knob ———
MIC ———
LCD display ———
MENU/DISP. button ———
PLAY/SKIP switch ———
FOLDER button ———
ERASE button ———
STOP button ———
SPEAKER ———
USB jack ———
REC. /PAUSE button ———

Operation of PLAY/SKIP Switch

Press	▶/Ⅱ (playback/pause/power on)
Push up	▶▶Ⅰ (fast forward/advance/up)
Push down	Ⅰ◀◀ (fast reverse/back/down)

Back Panel

Hand strap hole ———
Battery door ———
HOLD switch ———
MIC SENSE switch ———
VOX SENSE switch ———
MEMORY CARD door ———
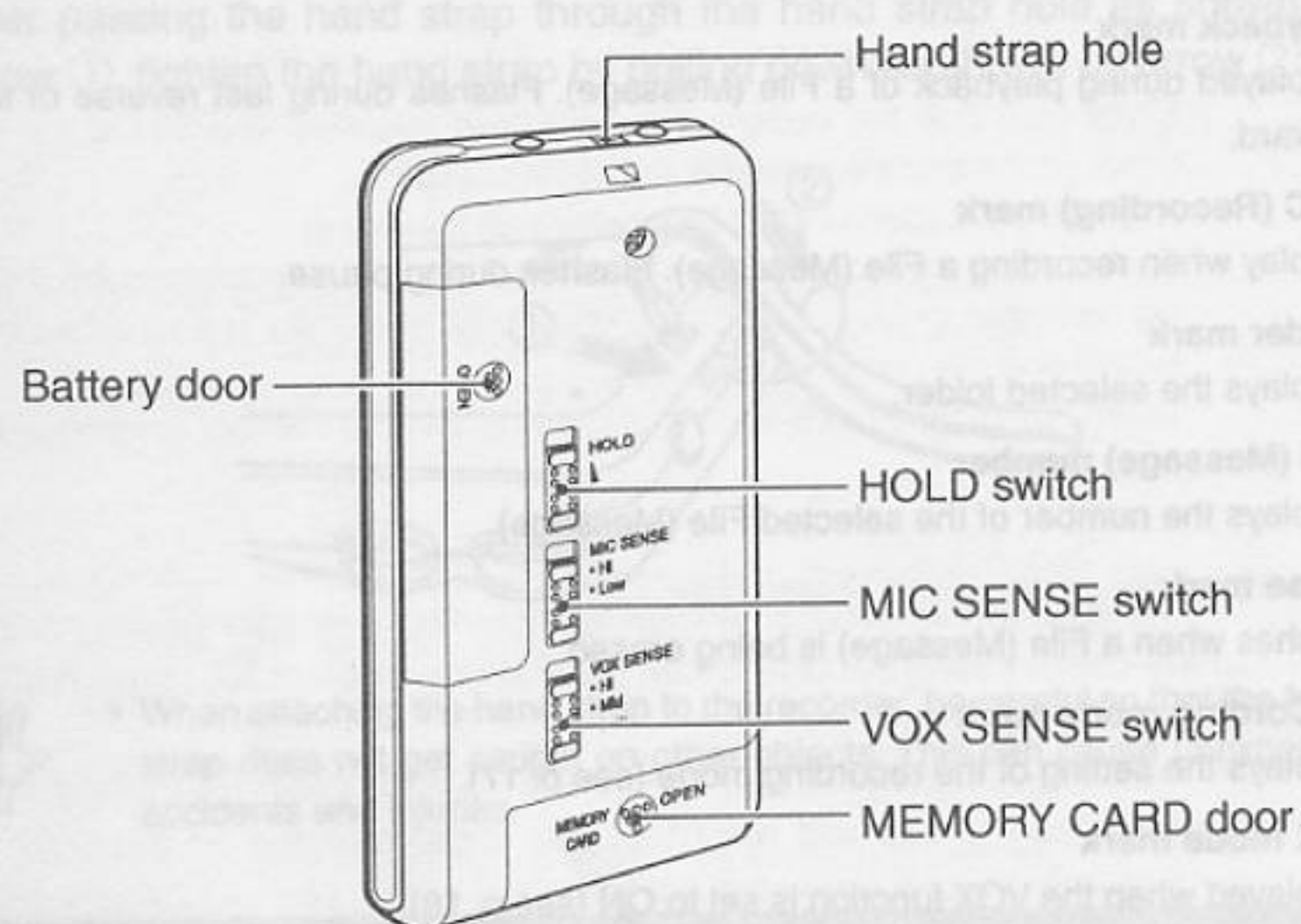
LCD Display

Battery mark
Folder mark
File (Message) number
Playback mark
RECording mode mark
REC (Recording) mark
VOX mode mark
Erase mark
Beep Tone mark
Counter/Time mark
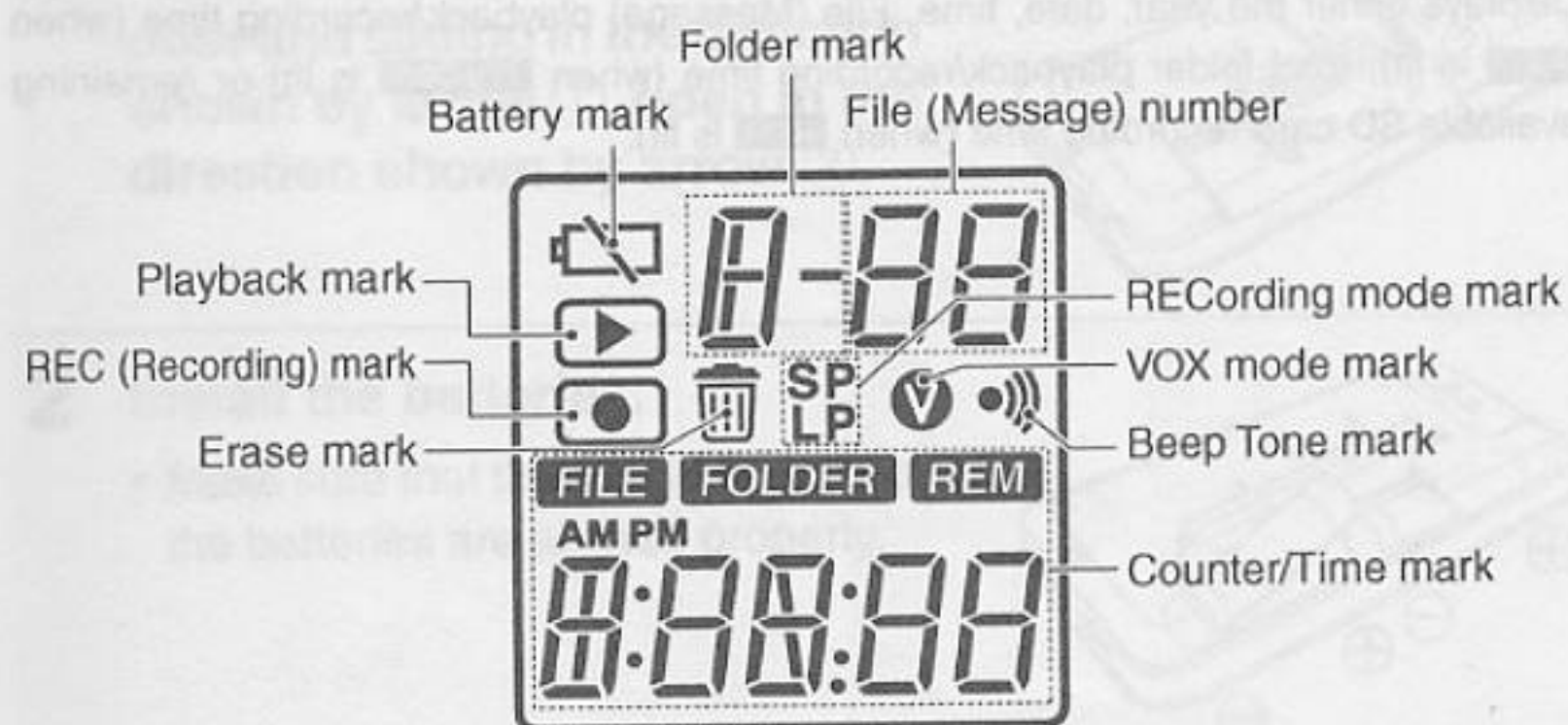
Battery mark

Displayed when battery level becomes low.

Playback mark

Displayed during playback of a File (Message). Flashes during fast reverse or fast forward.

REC (Recording) mark

Display when recording a File (Message). Flashes during pause.

Folder mark

Displays the selected folder.

File (Message) number

Displays the number of the selected File (Message).

Erase mark

Flashes when a File (Message) is being erased.

RECording mode mark

Displays the setting of the recording mode (see p. 17).

VOX mode mark

Displayed when the VOX function is set to ON (see p. 18).

Beep Tone mark

Displayed when the beep tone is set to ON (see p. 33).

Counter/Time mark

Displays either the year, date, time, File (Message) playback/recording time (when FILE is lit), total folder playback/recording time (when FOLDER is lit) or remaining available SD card recording time (when REM is lit).

Attaching the Hand Strap

After passing the hand strap through the hand strap hole as shown by arrow ①, tighten the hand strap by pulling down as shown by arrow ②.
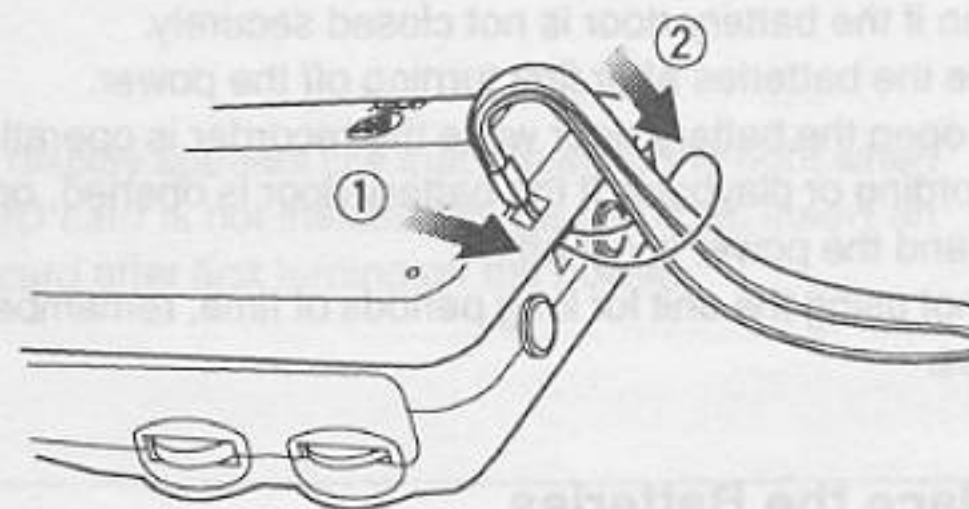
- When attaching the hand strap to the recorder, be careful so that the hand strap does not get caught on other objects. This can cause unexpected accidents and injuries.

Installing the Batteries

1 After pressing on the battery door and sliding in the direction shown by arrow ①, open in the direction shown by arrow ②.
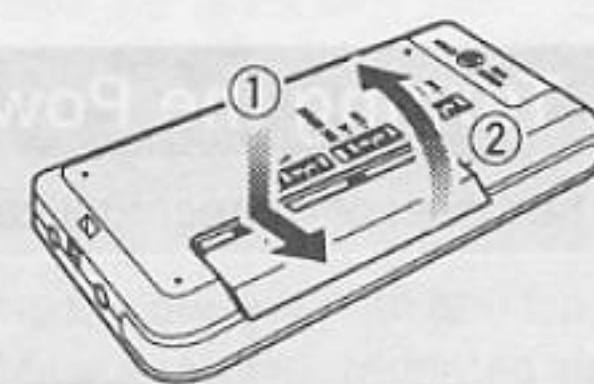
2 Install the batteries.

- Make sure that the ⊕ and ⊖ ends of the batteries are aligned properly.

5901-920-0-04A   5901-920-0-04A

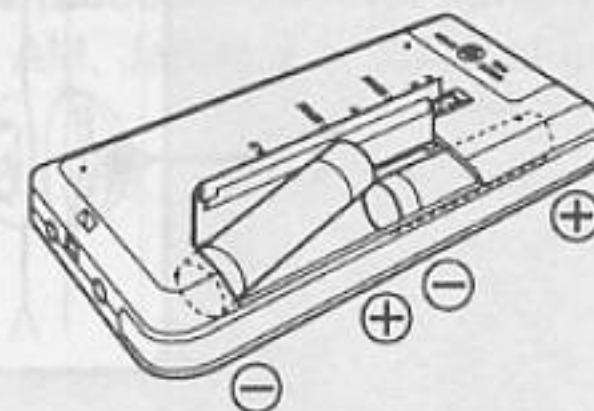**3** Close the battery door by following the reverse order of the procedure for opening it.

- Make sure that the battery door is closed securely. The power will not come on if the battery door is not closed securely.
- Replace the batteries after first turning off the power.
- Do not open the battery door while the recorder is operating such as during recording or playback. If the battery door is opened, operation is interrupted and the power is cut off.
- When not using the unit for long periods of time, remember to remove the batteries.

When to Replace the Batteries

When the battery level becomes low, the Battery mark (▭) is displayed. Replace the batteries at this time.

- When replacing the batteries, the date and time (see p. 9) along with the menu (see p. 32) will return to the initial settings at the time of purchase unless new batteries are installed within about 1 minute after the old batteries are removed. Recorded messages (files) are not deleted.

Turning the Power On and Off

The power of the recorder can be turned on and off using the STOP button.

8
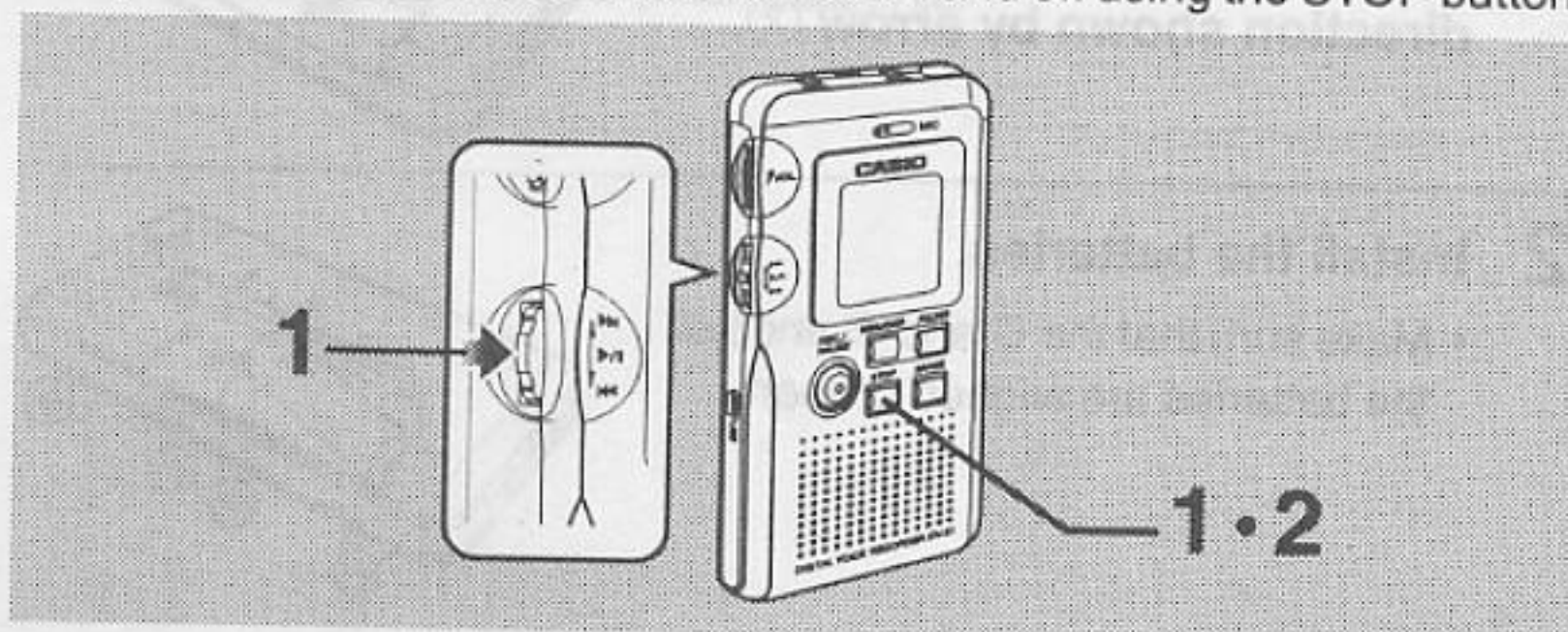
1 Press the STOP button to power ON.

- The power comes on.
- The power can also be turned on by pressing the PLAY/SKIP switch (power ON).

- The display appears like that shown to the right when an SD card is not installed in the recorder. Insert an SD card after first turning off the power.
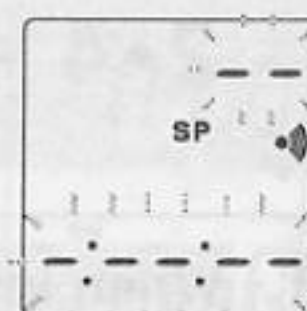
2 Press the STOP button for at least 2 seconds to power OFF.

- The display goes out and the power is turned off.

Auto Power Off

The power of the recorder is switched off automatically if none of the buttons are operated for 5 minutes when the recorder is stopped.

Setting the Date and Time

Setting the clock of the recorder lets you confirm the current date and time. In addition, the date and time when a File (Message) was recorded are displayed when a recorded File (Message) is processed with a personal computer. The recorder clock is set to 12:00 AM, January 1, 2001 at the time of purchase.

Insert an SD card before setting the Date and Time.

9
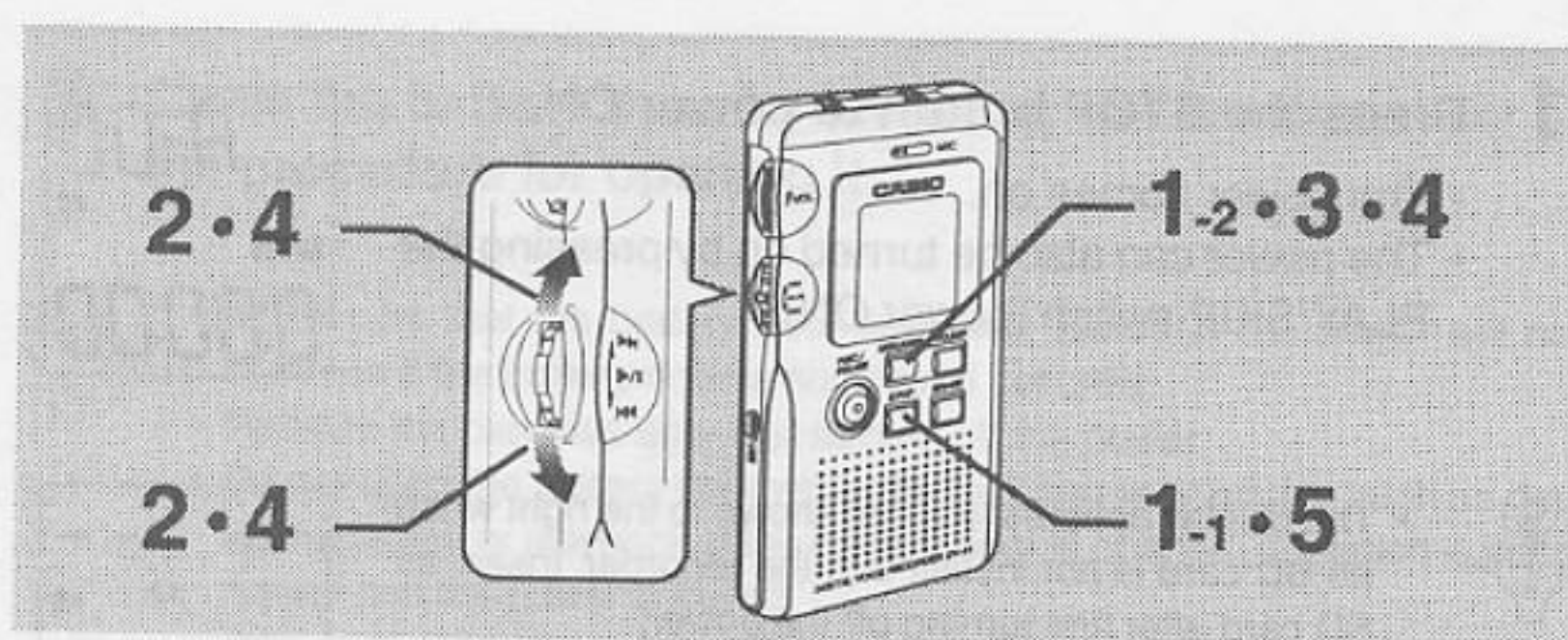
1₋₁ When installing the batteries for the first time, press the STOP button or PLAY/SKIP switch.

1₋₂ With the recorder stopped, press the MENU/DISP. button for at least 2 seconds and then press three more times.

- The year (Y) flashes.

2 Set the year by raising up the PLAY/SKIP switch to the advance (▶▶I) position or by pushing down the PLAY/SKIP switch to the back (I◀◀) position.

- The year can be set from 2001 to 2035.
- The numbers can be changed rapidly by either pushing up and holding the PLAY/SKIP switch in the advance (▶▶I) position or pushing down and holding in the back (I◀◀) position for at least 2 seconds.

3 Press the MENU/DISP. button.

- The year is set and the month flashes.

4 Repeat steps 2 and 3 to set the month, day, hours and minutes.

- The parameter to be set changes each time the MENU/DISP. button is pressed. The parameter that is flashing is the parameter currently being set.

5 Press the STOP button after the minutes have been set.

- The date and time are set.

- If none of the buttons are pressed for 5 minutes during setting, the power is automatically switched off.
- If a File (Message) is recorded without setting the date and time, files (messages) may not be stored in the order in which they were recorded.
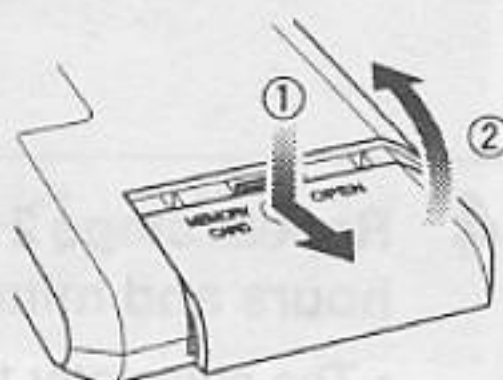
- Although you can leave the setting procedure by pressing the STOP button even if all of the parameters have not been set, those parameters that were not set remain the same as before setting.

Inserting and Removing the SD Card

Inserting the SD Card

1 Push the memory card door and slide in the direction shown by arrow ①, and then open in the direction shown by arrow ②.

2 Insert the SD card.

• Insert the SD card so that the label side is facing the front of the recorder.
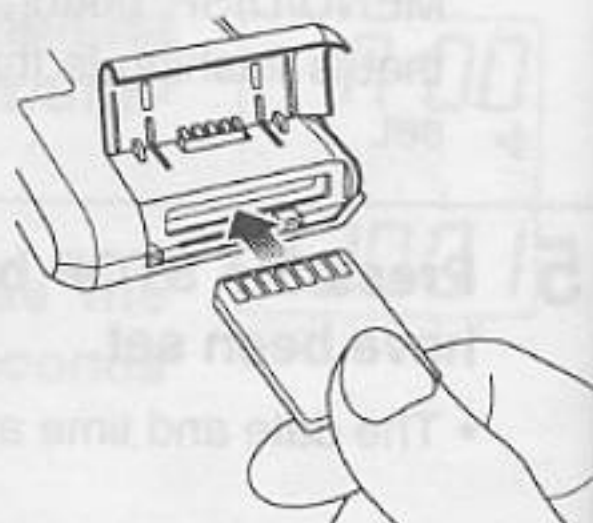
3 Push in the SD card with your finger.

• A clicking sound can be heard indicating that the SD card is locked in position.
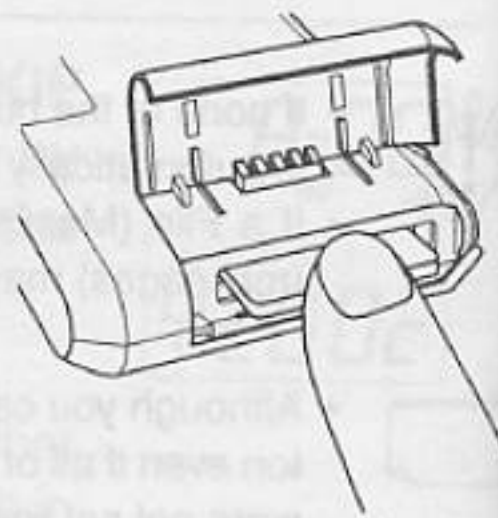
4 Close the memory card door by following the reverse order of the procedure for opening it.

Removing the SD Card

1 Open the memory card door.
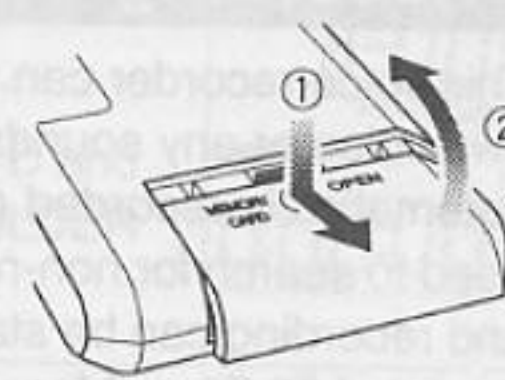
2 Push on the SD card with your finger.

• A clicking sound is heard after which the SD card comes out.
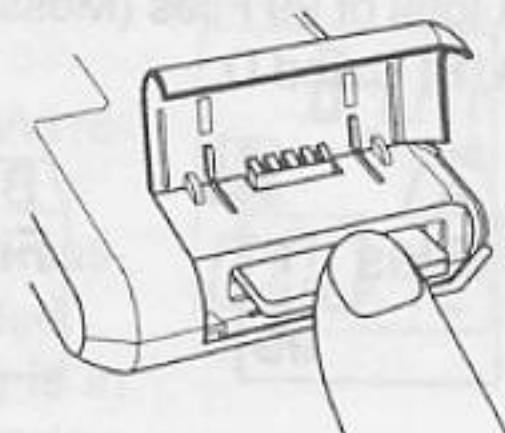
3 Grab the SD card with your fingers and pull it out.
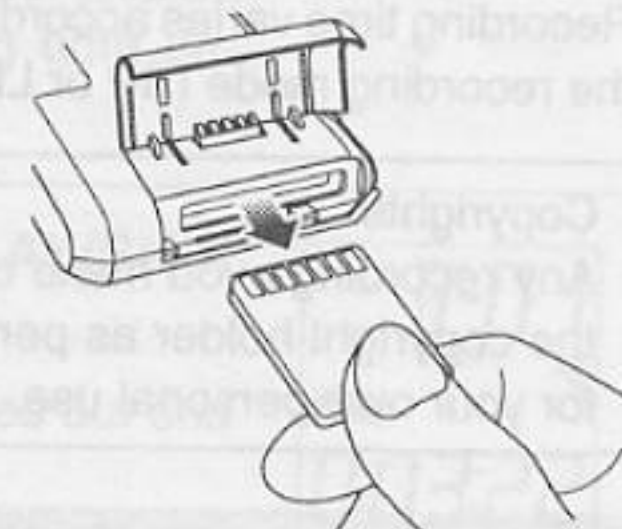
4 Close the memory card door.

• Never open the memory card door or take out the SD card when the recorder is operating, such as during recording or playback, or when the recorder is connected to a personal computer. The operation of the recorder will be interrupted which may result in damage to data on the SD card.
• When connected to a computer using Windows 2000/Me, take out the SD card after first completing preparations for removal. (Failure to do so may damage data on the SD card.)

• MMC (Multi Media Cards) can also be used in addition to SD cards. Operation is the same as for SD cards.

Basic Operation

Recording

This voice recorder can be used to record the contents of meetings, your own voice or any sounds you want. Since recorded Files (Messages) are automatically recorded onto available space on the SD card, there is no need to search for non-recorded portions in the manner of cassette tapes, and recording can be started immediately.

A total of 99 Files (Messages) can be recorded for each of the four folders A, B, C and D.

A Files 1 ~ 99	B Files 1 ~ 99	C Files 1 ~ 99	D Files 1 ~ 99

Recording time varies according to the particular type of SD card used and the recording mode (SP or LP) (see p. 34).

> **Copyrights**
> Any recordings you make cannot be used without the authorization of the copyright holder as per the provisions of the Copyright Act except for your own personal use.
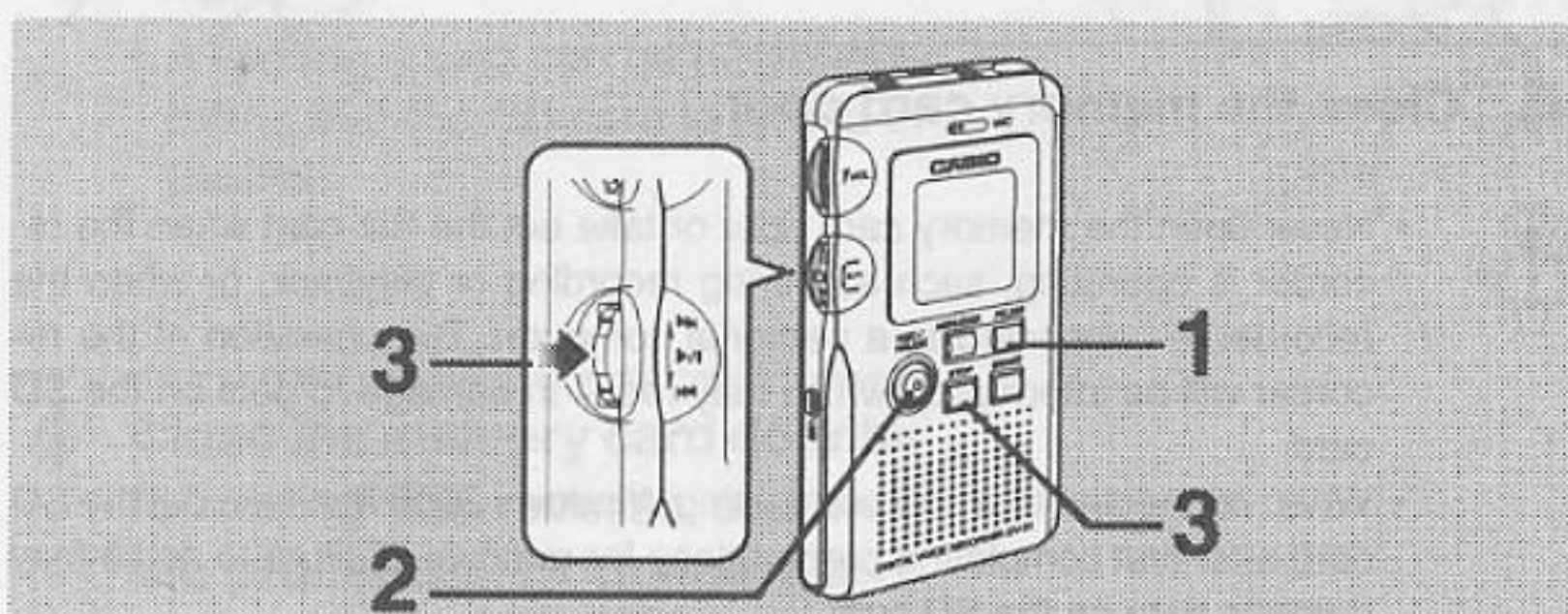
1 Press the FOLDER button and select the folder you want to use for recording.

- The folder changes in the order of A, B, C, D and then back to A and so forth each time the FOLDER button is pressed.

2 Press the REC./PAUSE button.

- The REC (Recording) mark (◉) flashes and recording begins.
- File (Message) numbers are assigned automatically in the order in which they were recorded.
- Elapsed time is displayed while recording is in progress (When REM is lit on the LCD display, the amount of remaining recording time decreases.)

3 Press the STOP button or PLAY/SKIP switch (PLAY) to stop recording.

- The REC (Recording) mark (◉) goes out and recording stops.
- Pressing the PLAY/SKIP switch (PLAY) lets you play back the contents that were just recorded.

Pausing Recording

- Recording is paused when the REC./PAUSE button is pressed while recording. The REC (recording) mark (◉) flashes while recording is paused.
- When the REC./PAUSE button is pressed while recording is paused, the REC (recording) mark (◉) lights and recording is resumed.
- Files (Messages) separated by a pause are recorded as a single File (Message).

- Press the STOP button or PLAY/SKIP switch (PLAY) when you want to stop recording without resuming recording after pausing.

- Do not connect the recorder to a personal computer with the USB cable while recording. This may cause the File (Message) being recorded to be lost.
- Replace the batteries with fresh batteries when recording for an extended period of time (see p. 7).
- When making an important recording, make a test recording prior to actual recording to confirm that the contents are recorded normally.
- The power is turned off automatically when five minutes have elapsed after recording has been paused. Recorded contents are stored directly.
- When recording has been stopped within 1 second after starting recording, it is not recorded as a new File (Message).
- A new File (Message) is not recorded in the following cases. When this happens, either erase unnecessary Files (Messages) (see p. 25) or replace the SD card with one having enough storage memory remaining on it (see p. 12).
  - There is no storage space left on the SD card. "C:FULL" is displayed on the LCD display at this time.
  - There are already 99 Files (Messages) in the folder to which you are attempting to record. "F:FULL" is displayed on the LCD display at this time.

- Recording stops automatically when there is no longer any storage space on the SD card while recording.
- When the REC./PAUSE button is pressed for at least 2 seconds while the recorder is stopped, the recorder pauses after switching to the recording state. Recording starts when the REC./PAUSE button is pressed again.
- This recorder is not provided with an editing function.

Setting the Recording Mode

The mode used when recording Files (Messages) can be set to either SP or LP. The recording mode is set to SP at the time of purchase (see p. 35).

SP (Standard Play): Sound quality is better than that when recording in the LP mode. **SP** is displayed on the LCD display.

LP (Long Play): Recording time is longer than SP. **LP** is displayed on the LCD display.

Please refer to the section on "SD Card" (see p. 34) for additional information regarding recording time.

Recording with an External Microphone (with monaural mini-plug)

When a commercially available external microphone is plugged into the MIC jack, voices can be recorded from the external microphone. In this case, the recorder's internal microphone is automatically switched off.

- Always make sure to turn the power of the recorder off before plugging in an external microphone.
- Refer to the instruction manual provided with the external microphone for information on its operation.
- When using a plug in power-compatible microphone, microphone power is supplied from the recorder.

Listening to Recordings while Recording

You can listen to recordings while recording by plugging a commercially available earphone into the EAR jack. Volume can be adjusted by turning the VOL. knob.

- Please note that noise may be produced when the volume is turned up too high or the earphone is brought in excessively close proximity to the microphone.

- There is no change in the recording level even if the volume setting is changed during recording.

Switching Microphone Sensitivity

The sensitivity of the microphone can be switched according to the recording environment by sliding the MIC SENSE switch.

Hi Mode: Used when recording sounds in the distance or low level sounds.

Low Mode: Used when recording sounds close by or high level sounds.

MIC SENSE switch
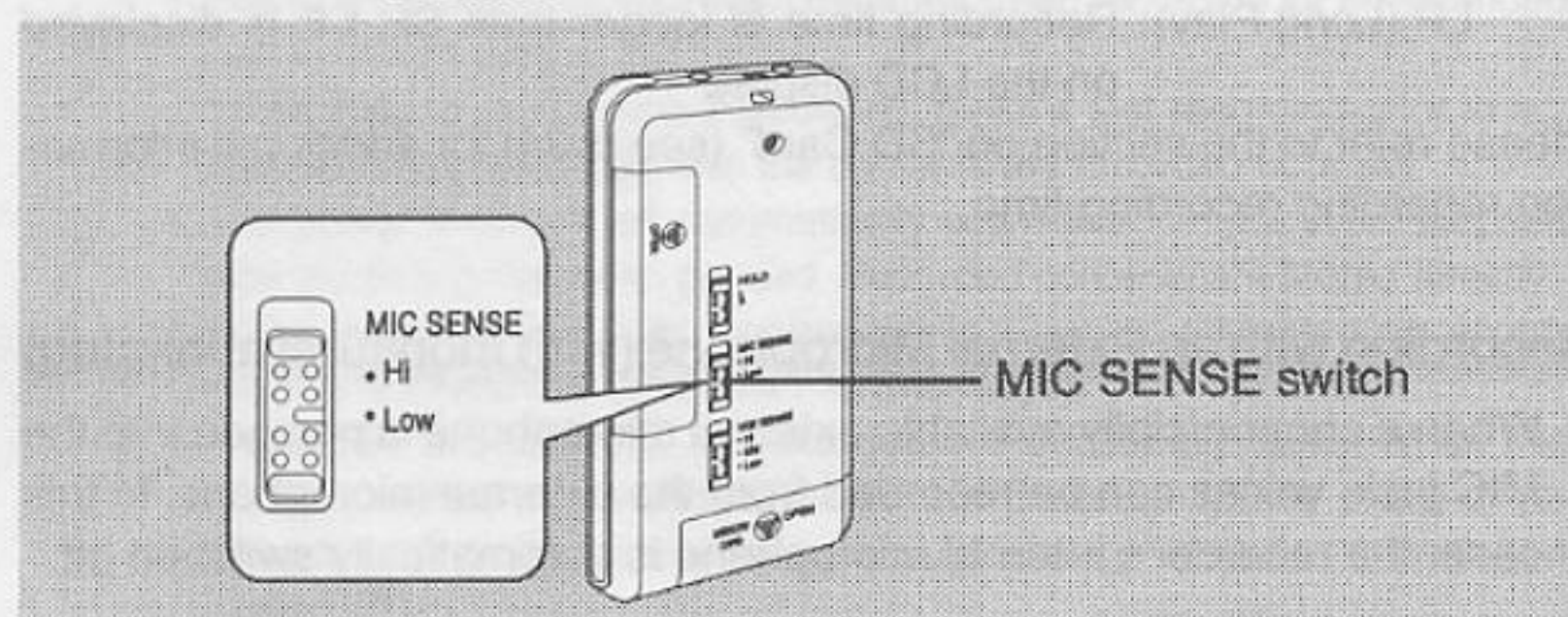
Recording Using the VOX Function

This function lets you record only those sounds that are above a certain sound level during recording for the purpose of conserving available recording space on the SD card. This function is set to OFF at the time of purchase (see p. 32).

ON: Only those sounds above a certain sound level are recorded. The VOX mode mark (●) is displayed on the LCD display.

OFF: Files (Messages) are recorded regardless of the sound level. Nothing is displayed on the LCD display.

Switching the Sensitivity of the VOX Function

The sensitivity of the VOX function can be set to one of three levels consisting of Hi (high), Mid (normal) and Low (low). Slide the VOX SENSE switch to select the sensitivity of the VOX function. The higher the sensitivity, the more the recorder is able to record low sound levels. Note that

if you switch the sensitivity during a recording, the new setting does not take effect until the next recording.

VOX SENSE switch
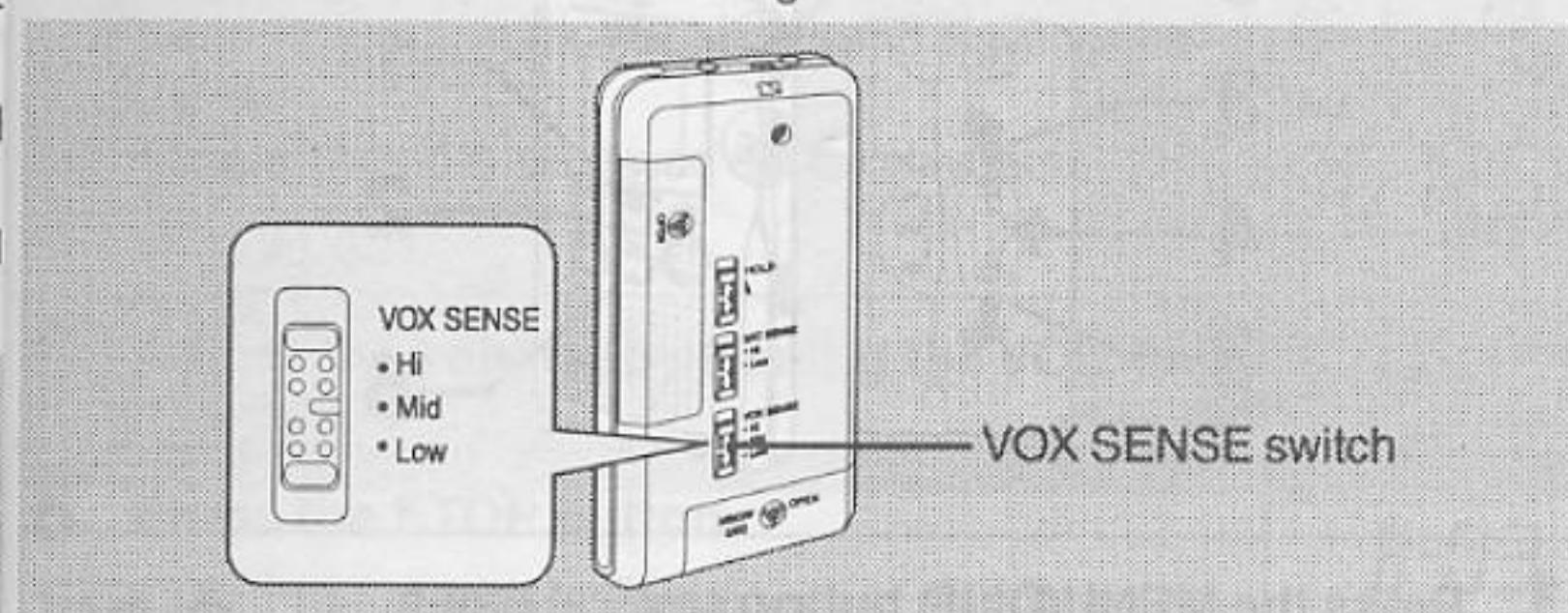
- Please note that when the VOX function is set to ON, the recorder may not be able to record the contents of all recordings because the sound level may be too low.
- The VOX function is subject to the effects of surrounding noise. Set the microphone sensitivity according to the particular conditions (see p. 18). Set the VOX function to OFF if you are unable to record in the way you want or when recording particularly important contents.

Playback

There are two ways to play back Files (Messages) recorded with this recorder. The first way consists of playing back a single pre-selected File (Message). The second way consists of playing back all the Files (Messages) in a folder in order.

(Files (Messages) cannot be played back with SD cards on which recordings were made with a device other than this recorder.)

Playing Back a Single File (Message)

You can play back a desired File (Message) by selecting that File (Message). Start from step 4 when you want to play back the more recently recorded File (Message).
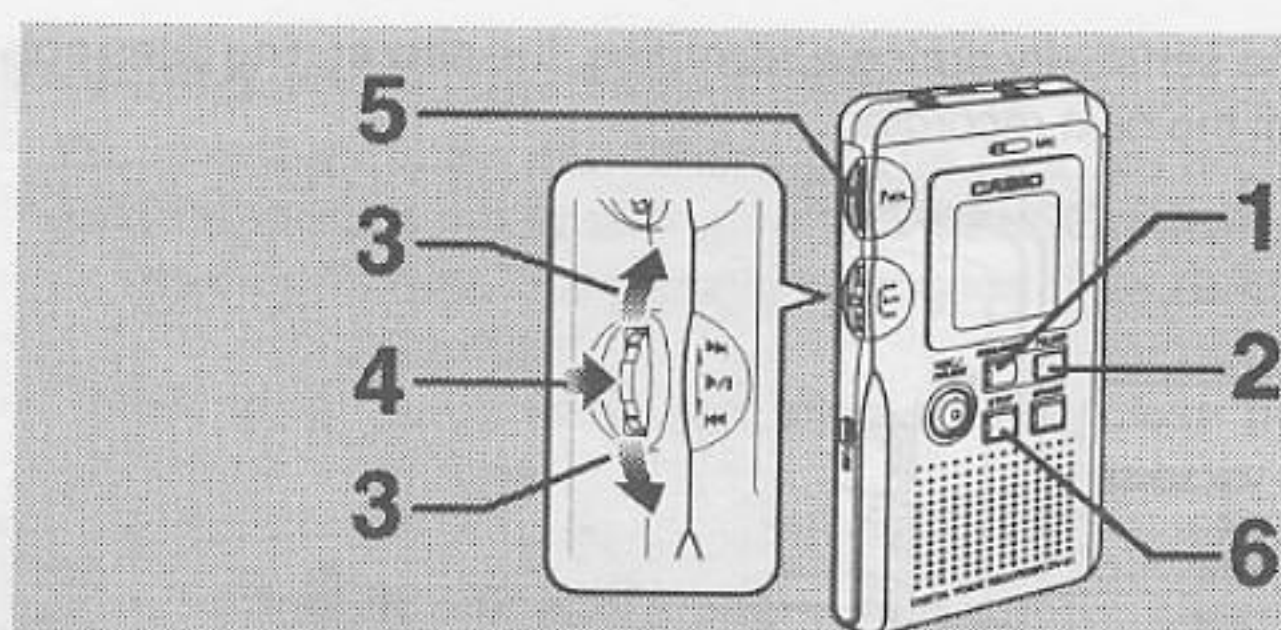
1 Press the MENU/DISP. button several times until 🔲**FILE** is displayed on the LCD display.

```
A-00
   SP  ◄))
FILE
0:00:00
```

2 Press the FOLDER button to select a folder.

- The folders change in the order of A, B, C, D and then back to A each time the FOLDER button is pressed.

```
B-01
   SP  ◄))
FILE
0:00:00
```

3 Select a File (Message) with the (▶▶I) or (I◀◀) switch.

```
B-03
   SP  ◄))
FILE
0:00:00
```

4 Press PLAY/SKIP switch (PLAY).

- The Playback mark ((▶)) lights and playback begins.
- Elapsed time is displayed during playback.

```
▶ B-03
     SP  ◄))
FILE
0:01:26
```

5 Adjust the volume by turning the VOL. knob.

6 Press the STOP button.

- The Playback mark ((▶)) goes out and playback stops.
- Elapsed time at the point playback was stopped remains on the LCD display.
- Playback stops automatically when the last File (Message) has been played back.

```
B-03
   SP  ◄))
FILE
0:27:31
```

Playing Back All Files (Messages) in a Folder in Order

You can play back all Files (Messages) recorded in a selected folder in order.

5901-920-0-04A/5901-920-0-04A

1 Press the MENU/DISP. button several times until 🔲FOLDER🔲 is displayed on the LCD display.

`A-00`
`SP ·�))`
`FOLDER 🔊`
`0:00:00`

2 Press the FOLDER button to select a folder.

- The folders change in the order of A, B, C, D and then back to A each time the FOLDER button is pressed.

`B-01`
`SP ·�))`
`FOLDER`
`0:00:00`

3 Press the PLAY/SKIP switch (PLAY).

- The Playback mark (▶) lights and playback of the first File (Message) begins.
- Elapsed time is displayed during playback.

`▶ B-01`
`SP ·�))`
`FOLDER`
`0:01:25`

4 Adjust the volume by turning the VOL. knob.
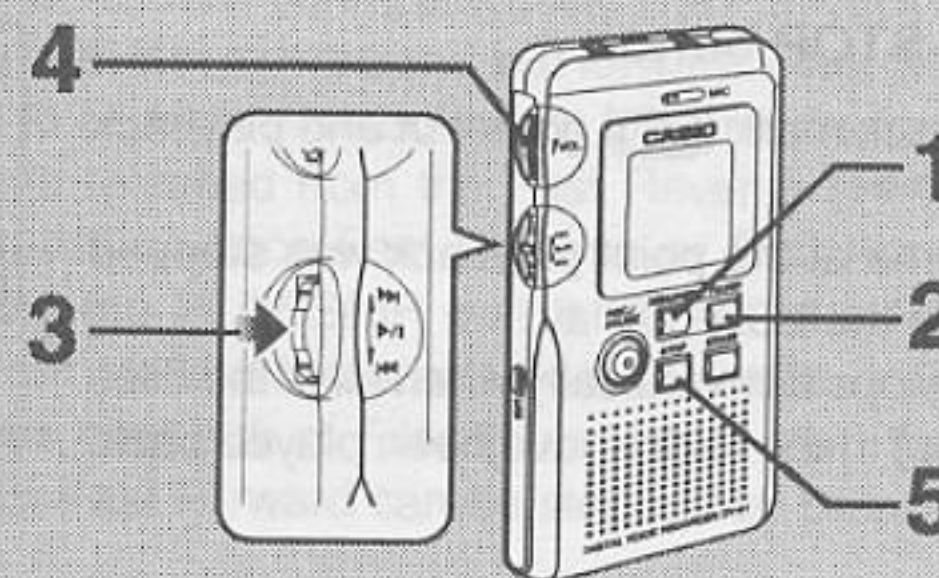
5 Press the STOP button.

- The Playback mark (▶) goes out and playback stops.
- Elapsed time at the point playback was stopped remains on the LCD display.
- Playback stops automatically when all of the Files (Messages) in the folder have been played back.

`B-09`
`SP ·�))`
`FOLDER`
`0:52:37`

Operations During Playback

Various operations can be performed during playback of a File (Message).

Pausing Playback

- Playback is paused when the PLAY/SKIP switch (PAUSE) is pressed during playback. The Playback mark (▶) goes out while playback is paused.
- When the PLAY/SKIP switch (PLAY) is pressed while playback is paused, the Playback mark (▶) lights and playback is resumed. Press the STOP button when you want to stop playback without resuming playback after pausing.

`B-03`
`SP ·�))`
`FILE`
`0:14:25`

Fast Reverse and Fast Forward during Playback

- Files (Messages) are fast reversed when the PLAY/SKIP switch is pushed down in the direction of Fast Reverse (◄◄) for at least 2 seconds during playback. Files (Messages) are fast forwarded when the PLAY/SKIP switch is pushed up in the direction of Fast Forward (►►) for at least two seconds during playback. The Playback mark (▶) flashes during both fast reverse and fast forward. Files (Messages) are continued to be fast reversed or fast forwarded even if the PLAY/SKIP switch is released from the Fast Reverse (◄◄) or Fast Forward (►►) position once Fast Reverse or Fast Forward have begun. Pressing the PLAY/SKIP switch (PLAY) at a File (Message) that you want to listen to stops Fast Reverse or Fast Forward and resumes playback of Files (Messages) from that point. Fast Reverse or Fast Forward can be stopped by pressing the STOP button.

- When the PLAY/SKIP switch is pushed down in the direction of Fast Reverse (◄◄) or pushed up in the direction of Fast Forward (►►) during Fast Reverse or Fast Forward, Fast Reverse or Fast

`▶ B-03`
`SP ·�))`
`FILE`
`0:18:36`

Playback proceeds at a faster speed during the time the PLAY/ SKIP switch is pushed up or down. Playback resumes when the PLAY/SKIP switch is released from the Fast Reverse (◄◄) or Fast Forward (►►) position.
- Fast Reverse and Fast Forward continue even if the start or end of a File (Message) is reached. Fast Reverse and Fast Forward stop automatically when the start or end of a folder is reached.

Playing Back Files (Messages) from the Beginning

- A File (Message) is played back again from the beginning when the PLAY/SKIP switch is pushed down in the direction of Fast Reverse (◄◄) during playback.

Skipping Previous File (Message)

- Playback begins from the start of the previous File (Message) when the PLAY/SKIP switch is quickly pushed down twice in the direction of Fast Reverse (◄◄).
- Push the PLAY/SKIP switch down several times in the direction of Fast Reverse (◄◄) to skip several previous Files (Messages).
- This operation is disabled when playing back the first File (Message) of a folder.

Skipping to the Next File (Message)

- Playback begins from the start of the next File (Message) when the PLAY/SKIP switch is pushed up in the direction of Fast Forward (►►) during playback.
- Push the PLAY/SKIP switch up several times in the direction of Fast Forward (►►) to skip several following Files (Messages).
- This operation is disabled when playing back the last File (Message) of a folder.

- When selecting a folder by pressing the FOLDER button during playback, playback begins from the first File (Message) in the folder selected. However, folders in which Files (Messages) have not been recorded cannot be selected.
- Only one File (Message) is played back when REM is lit on the LCD display. Time does not change in this case.

Listening with an Earphone (with monaural mini-plug)

You can listen to Files (Messages) with an earphone by plugging a commercially available earphone into the EAR jack. Adjust the volume by turning the VOL. knob. There is no sound heard from the speaker while an earphone is plugged in.

Erasing

You can erase Files (Messages) that you no longer need. Please note that erased Files (Messages) cannot be recovered once they have been erased. There are three ways to erase Files (Messages), namely erasing one File (Message) at a time (file erase), erasing all the Files (Messages) in a single folder (folder erase), and erasing all the Files (Messages) on the SD card (all erase). Only Files (Messages) that have been recorded with this recorder can be erased.

Erasing One Recorded File (Message) at a Time (File Erase)

This lets you erase only a selected File (Message). The File (Message) number automatically moves up to the next File (Message) when a File (Message) is erased.
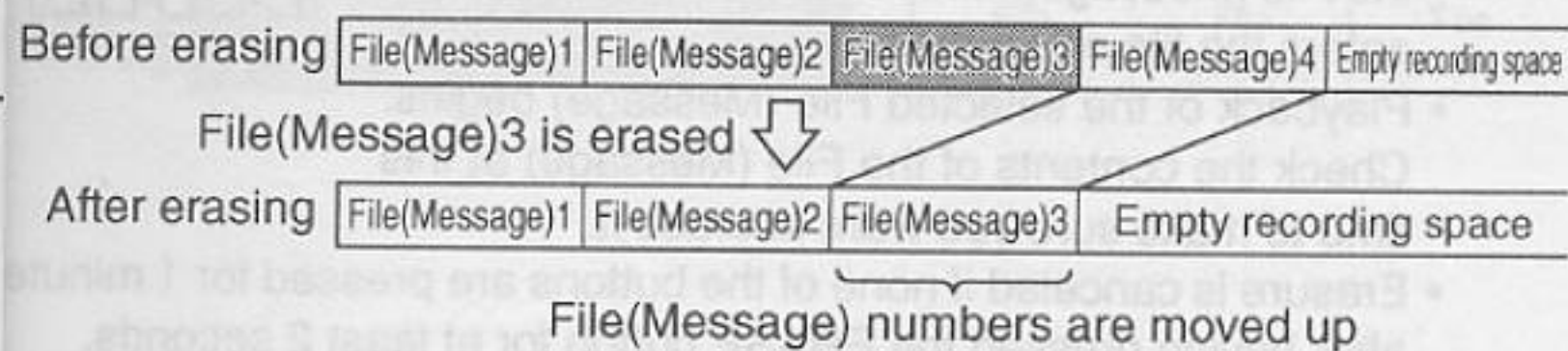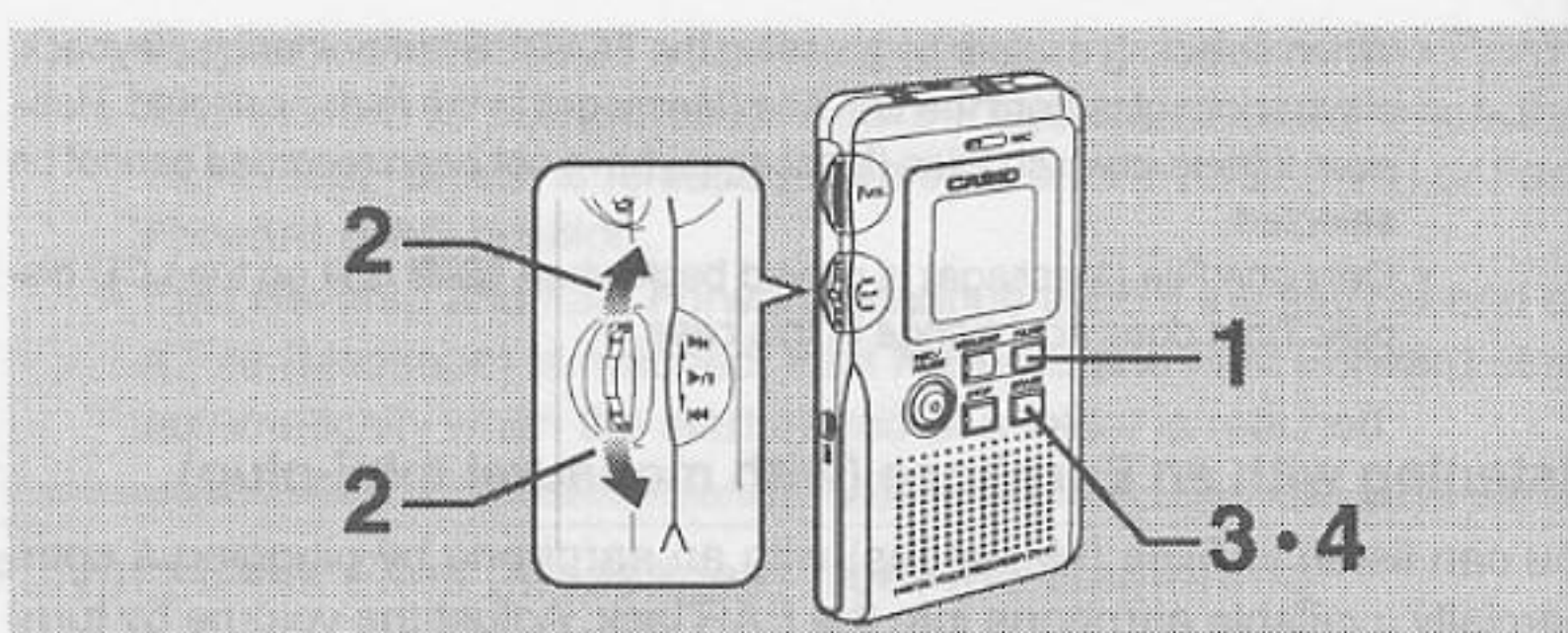
Before erasing | File(Message)1 | File(Message)2 | File(Message)3 | File(Message)4 | Empty recording space

File(Message)3 is erased ⇩

After erasing | File(Message)1 | File(Message)2 | File(Message)3 | Empty recording space

File(Message) numbers are moved up

2 ↗
2 ↘
1
3·4

1 Press the FOLDER button to select a folder.

`B-01` SP

FILE

`0:00:00`

- The folders change in the order of A, B, C, D and then back to A each time the FOLDER button is pressed.

2 Select a File (Message) that you want to delete with the (▶▶l) or (l◀◀) switch.

`B-03` SP

FILE

`0:00:00`

3 Press the ERASE button for at least 2 seconds.

`B-03` SP

FILE

`0:00:02`

- The Erase mark (🗑) and **FILE** marks along with the File (Message) number flash and the recorder enters the file erase mode.
- Playback of the selected File (Message) begins. Check the contents of the File (Message) at this time to make sure you want to erase it.
- Erasure is canceled if none of the buttons are pressed for 1 minute after having pressed the ERASE button for at least 2 seconds.

4 Press the ERASE button again for at least 2 seconds.

`B-03` SP

FILE

`0:00:00`

- The selected File (Message) is erased. After it has been erased, the Erase mark (🗑) goes out and the **FILE** mark and File (Message) number change from flashing to being lit.
- **When you want to cancel erasure,** press the STOP button or the PLAY/SKIP switch (PLAY) before you press the ERASE button.

- Nothing happens when the ERASE button is pressed if you have selected a folder in which there are no Files (Messages) recorded.
- Please note that File (Message) numbers change when a File (Message) has been erased. Make sure to confirm the contents of Files (Messages) before erasing.
- Files (Messages) to be erased are played back for 1 minute.
- Files (Messages) can also be erased during playback as well by following the same procedure.

Erasing All Files (Messages) in a Folder (Folder Erase)

This lets you erase all the Files (Messages) recorded in a selected folder.

	Folder B			Folder C		
Before erasing	File (Message)1	File (Message)2	Empty recording space	File (Message)1	File (Message)2	File (Message)3

Folder B is erased ⇩

	Folder B			Folder C		
After erasing	Empty recording space			File (Message)1	File (Message)2	File (Message)3
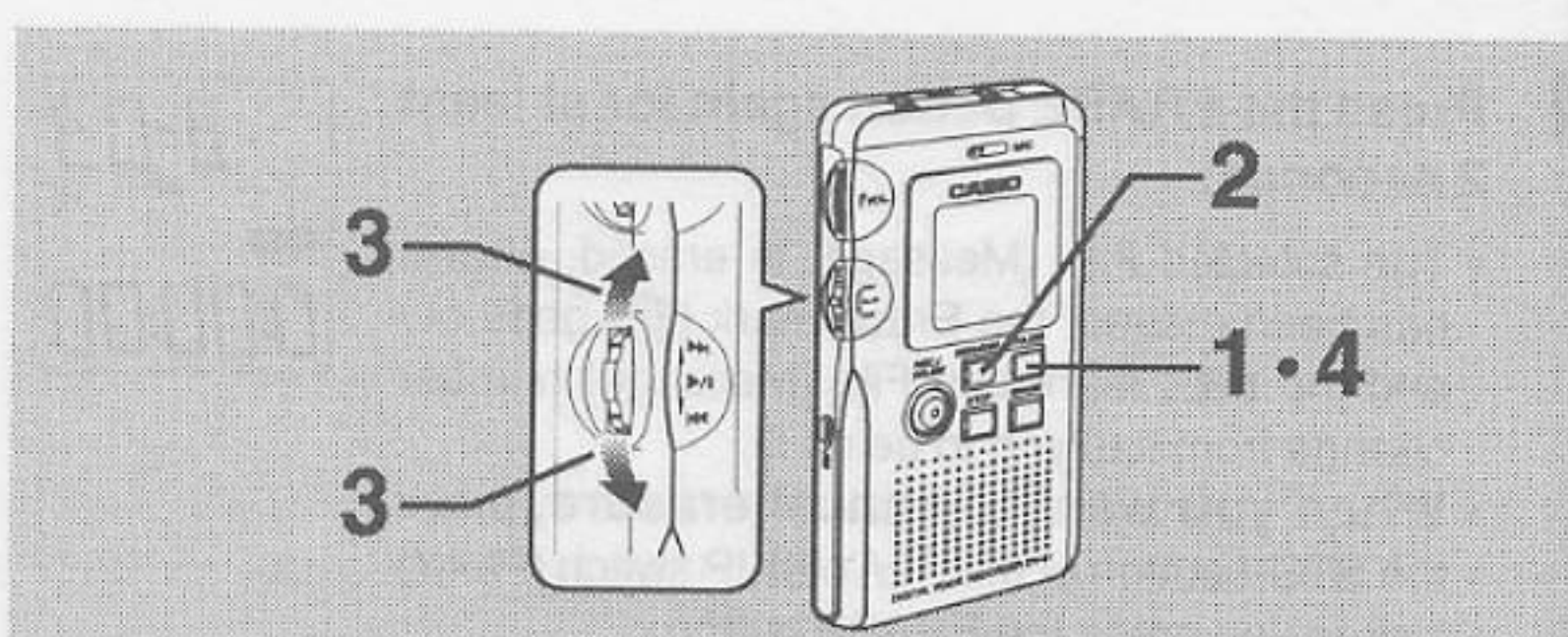
1 Press the ERASE button for at least 2 seconds.

- The recorder enters the file erase mode.
- Playback of the File (Message) currently displayed begins.
- Erasure is canceled if none of the buttons are pressed for 1 minute after having pressed the ERASE button for at least 2 seconds.

2 Press the MENU/DISP. button.

- The Erase mark (🗑), FOLDER mark and folder flash, and the recorder enters the folder erase mode.
- Playback begins starting with the first File (Message) in the folder currently displayed.

3 Select a folder that you want to delete with the (▶▶I) or (I◀◀) switch.

- Playback begins starting with the first File (Message) in the selected folder. Check the contents of the Files (Messages) at this time.
- Folders in which Files (Messages) are not recorded cannot be selected.

4 Press the ERASE button again for at least 2 seconds.

- All Files (Messages) in the folder are erased. After they have been erased, the Erase mark (🗑) goes out and FOLDER and the folder change from flashing to being lit.
- **When you want to cancel erasure,** press the STOP button or the PLAY/SKIP switch (PLAY) before you press the ERASE button.

- Files (Messages) in the selected folder are played back for 1 minute.
- You can also enter the folder erase mode after having first selected a folder.
- Files (Messages) can also be erased during playback as well by following the same procedure.

Erasing All Files (Messages) on the SD Card (All Erase)

This lets you erase all Files (Messages) recorded with this recorder on the SD card.
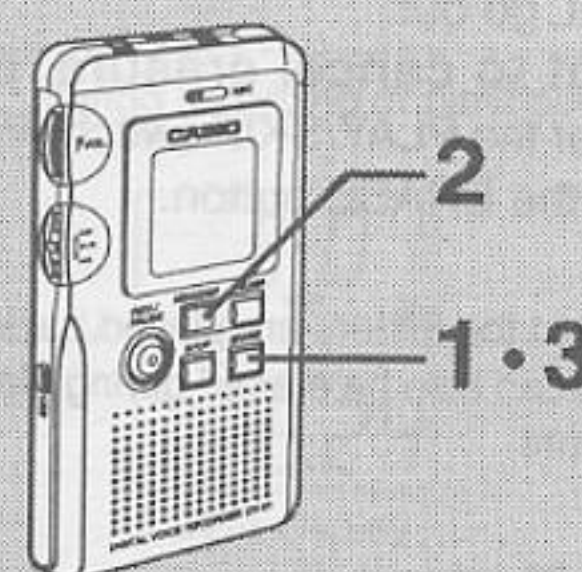
1 **Press the ERASE button for at least 2 seconds.**

- The recorder enters the file erase mode.
- Playback of the File (Message) currently displayed begins.
- Erasure is canceled if none of the buttons are pressed for 1 minute after having pressed the ERASE button for at least 2 seconds.

2 **Press the MENU/DISP. button twice.**

- The recorder enters the all erase mode.
- The Erase mark (🗑) and ALL flash, and playback begins starting with the first folder.

3 **Press the ERASE button again for at least 2 seconds.**

- All of the Files (Messages) on the SD card are erased. After they have been erased, the Erase mark (🗑) and ALL go out.
- **When you want to cancel erasure,** press the STOP button or the PLAY/SKIP switch (PLAY) before you press the ERASE button.

- Files (Messages) in the folders are played back for 1 minute.
- Files (Messages) can also be erased during playback as well by following the same procedure.

Switching the Erase Mode

The erase mode changes from the file erase mode to the folder erase mode to the all erase mode and then back to the file erase mode in that order each time the MENU/DISP. button is pressed after having pressed the ERASE button for at least 2 seconds.

30

5901-920-0-04

Changing the Display of the LCD Display

The contents of the LCD display change each time the MENU/DISP. button is pressed.

MENU/DISP. button

| Display of elapsed time of selected File | Display of total elapsed time of selected folder | Display of remaining recording time of SD card |

During recording or playback

| Time display | Date display | Year display |
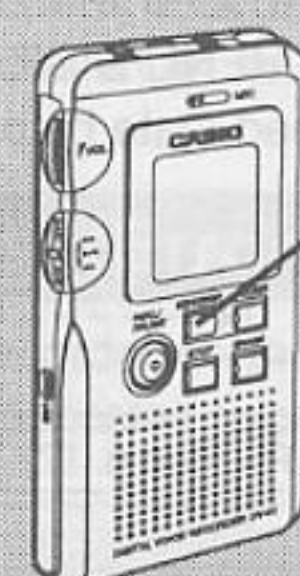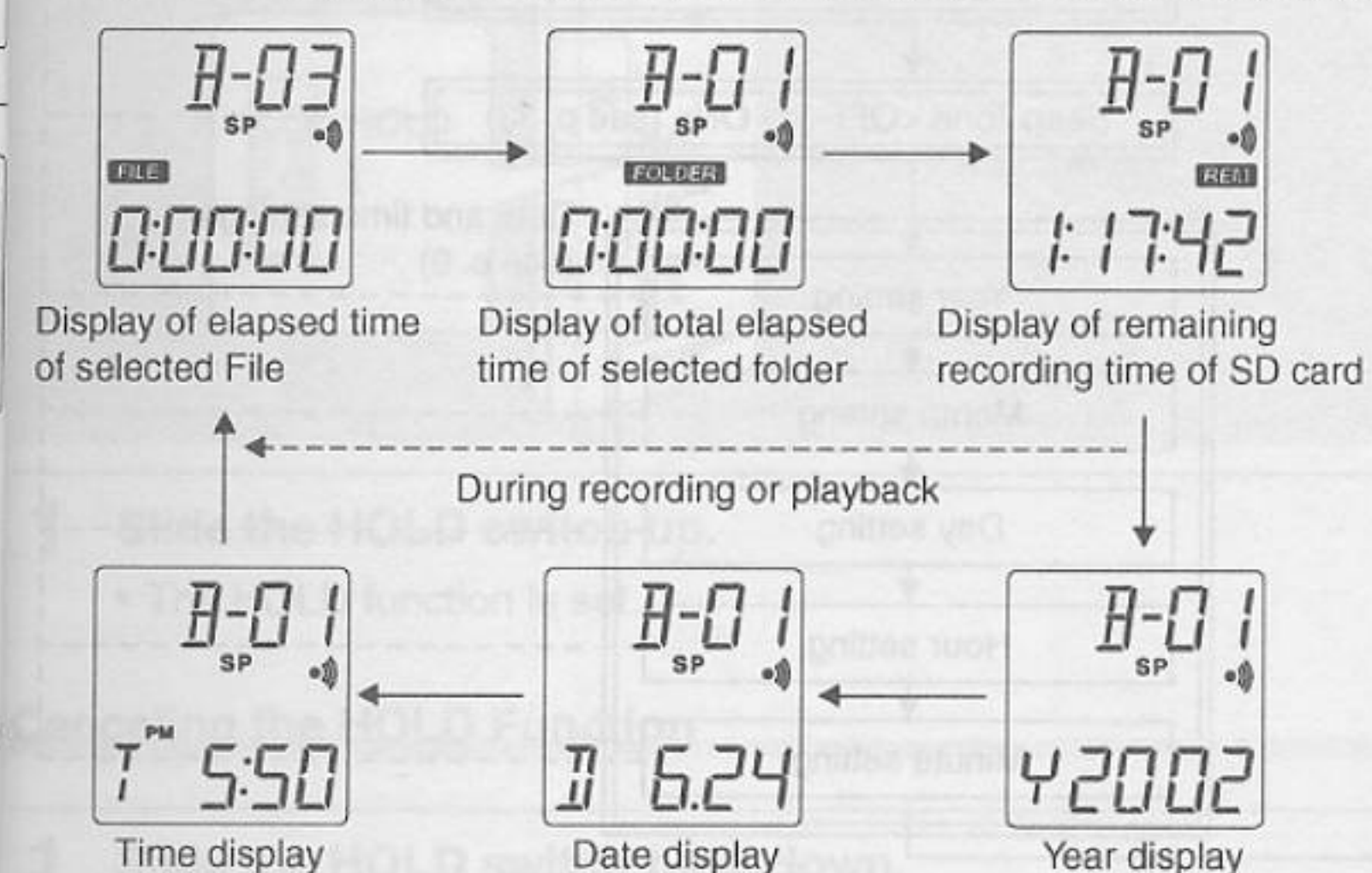
- The display does not change to the display of the year, date and time during recording and playback.

5901-920-0-04A

31

Menus

This recorder displays 4 menus. The recorder first enters setting of the recording mode when the MENU/DISP. button is pressed for at least 2 seconds when the recorder is stopped. After that, the display changes in the order shown below each time the MENU/DISP. button is pressed. The recorder can be returned to the stopped state by pressing the STOP button when any menu is displayed.

```
          ┌──────────────────────┐
          │       Stopped        │◄┄┄┄┄┄┄┄┄┄┄┄┄┐
          └──────────────────────┘             ┆
                     │                          ┆
   ┌─────┐           ▼                          ┆
   │     └►┌─────────────────────────────────┐ ┆
   │       │Recording mode <SP⇔LP> (see p. 17)├┄┄┤
   │       └─────────────────────────────────┘ ┆
   │                 │                          ┆
   │                 ▼                          ┆
   │       ┌─────────────────────────────────┐ ┆
   │       │VOX function <OFF⇔ON> (see p. 18)├┄┄┤
   │       └─────────────────────────────────┘ ┆
   │                 │                          ┆
   │                 ▼                          ┆
   │       ┌─────────────────────────────────┐ ┆
   │       │Beep Tone <OFF⇔ON> (see p. 33)   ├┄┄┤
   │       └─────────────────────────────────┘ ┆
   │                 │          Date and time settings
   │                 │          (see p. 9)      ┆
   │       ┌─────────▼───────────────────────┐ ┆
   │       │ ┌─────────────────────────────┐ │ ┆
   │       │ │      Year setting           ├┄┼┄┤
   │       │ └─────────────────────────────┘ │ ┆
   │       │           │                     │ ┆
   │       │ ┌─────────▼───────────────────┐ │ ┆
   │       │ │      Month setting          ├┄┼┄┤
   │       │ └─────────────────────────────┘ │ ┆
   │       │           │                     │ ┆
   │       │ ┌─────────▼───────────────────┐ │ ┆
   │       │ │       Day setting           ├┄┼┄┤
   │       │ └─────────────────────────────┘ │ ┆
   │       │           │                     │ ┆
   │       │ ┌─────────▼───────────────────┐ │ ┆
   │       │ │      Hour setting           ├┄┼┄┤
   │       │ └─────────────────────────────┘ │ ┆
   │       │           │                     │ ┆
   │       │ ┌─────────▼───────────────────┐ │ ┆
   └───────┼─┤     Minute setting          ├┄┼┄┘
           │ └─────────────────────────────┘ │
           └─────────────────────────────────┘
```
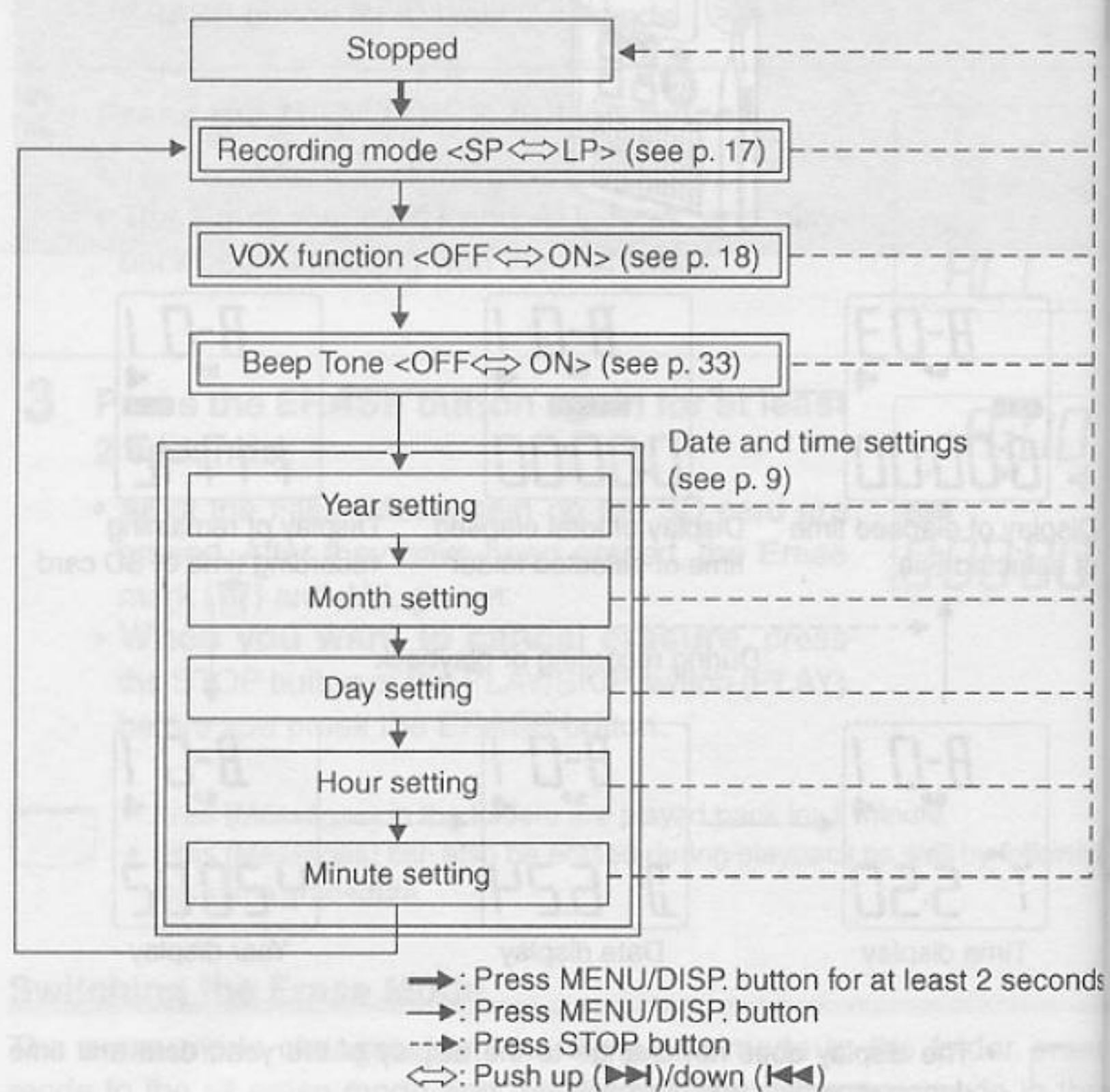
➡ : Press MENU/DISP. button for at least 2 seconds
➡ : Press MENU/DISP. button
┄➤: Press STOP button
⇔ : Push up (▶▶l)/down (l◀◀)

• The power is switched off automatically if none of the buttons are operated for 5 minutes during menu setting.

32

Setting the Beep Tone

The beep tone can be set so that it does not sound when a button is pressed. The beep tone is set to ON at the time of purchase.

    ON: The beep tone is sounded when a button is pressed.
    OFF: The beep tone is not sounded when a button is pressed.

Hold Function (Error Prevention)

This lets you set the recorder so that none of buttons other than the MIC SENSE switch can be operated to prevent the buttons from being pressed by mistake.
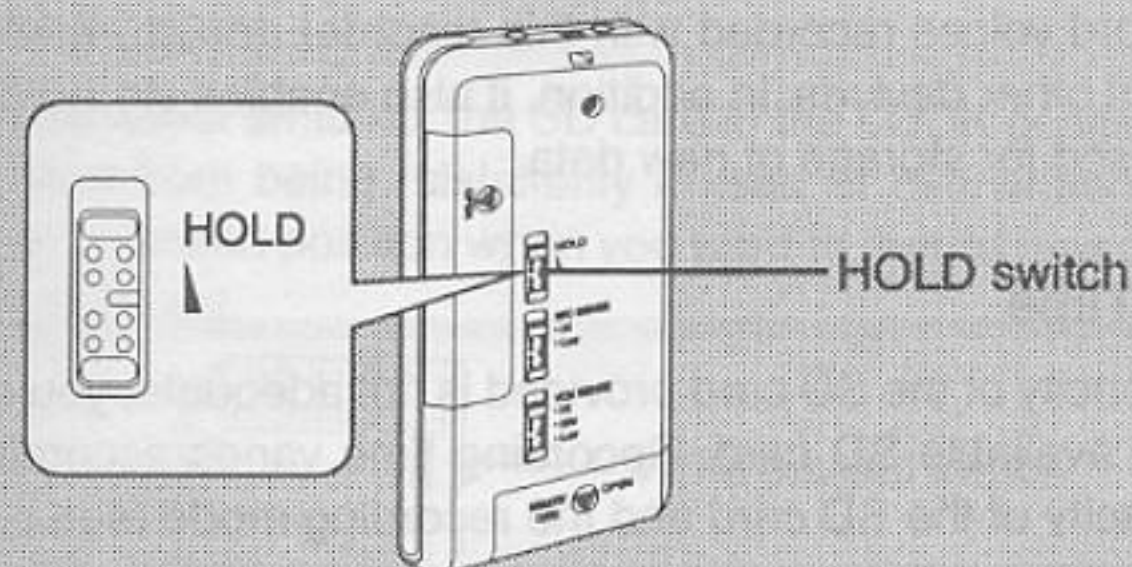
HOLD ── HOLD switch

1 **Slide the HOLD switch up.**
    • The HOLD function is set.

Canceling the HOLD Function

1 **Slide the HOLD switch back down.**
    • The HOLD function is canceled.

• The HOLD function can be set while recording. Cancel the HOLD function to stop recording.

- The HOLD function can also be set during playback. In this case, when all of the Files (Messages) in a folder are being played back, the recorder stops after all of the Files (Messages) in the folder have been played back. At other times, the recorder stops after the File (Message) being played back is played back to the end of that File (Message). Cancel the HOLD function to interrupt playback before it is finished.
- The volume can be adjusted even if the HOLD function is set.

SD Card

What is an SD Card?

An SD card (SD memory card) refers to a removable kind of external recording media that is both compact and lightweight. It is used by this recorder to record voices recorded with this recorder and store image data and so forth of other devices. In addition, it also enables stored data to be erased and used for storage of new data.

Recording Time

When the capacity of the SD card provided is not adequate, you can use a commercially available SD card. Recording time varies according to the memory capacity of the SD card and the recording mode (see p. 17).

Recording mode \ Memory capacity	8 MB	16 MB	32 MB	64 MB
SP	Approx. 27 minutes	Approx. 60 minutes	Approx. 126 minutes	Approx. 259 minutes
LP	Approx. 54 minutes	Approx. 118 minutes	Approx. 248 minutes	Approx. 508 minutes
Estimate of data storage capacity	6.4 MB	14.1 MB	29.5 MB	60.5 MB

- The relationship between memory capacity and recording time in the case of using an MMC (Multimedia Card) is different from that of SD Cards.

- Recording time may be shorter when storing data (image data and so forth) other than voice Files (Messages) recorded with this recorder. (Remaining recording time may not be displayed correctly depending on the manner in which files are stored.)
- The actual amount of data storage space differs from the capacity indicated on the SD card due to system restrictions of the SD card.

Handling Precautions

Please be careful of the following points when handling SD cards.
- It is recommend that important recordings be backed up on a personal computer or other device to prevent data from being lost or damaged due to accidental erasure or malfunction.

Protection of Data

Set the write protect switch of the SD card in the LOCK position to prevent important data from being mistakenly erased or overwritten. Return the switch to the unlocked position when you want to record new data or erase data on the SD card.
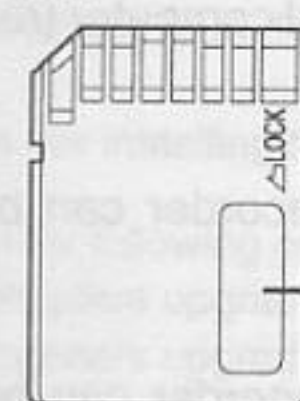

Write protect switch

Memo space

Formatting (Initializing) SD Cards

- Normally, it is not necessary to format the SD card.
- Connect the recorder to a personal computer and format (initialize) the card only when Files (Messages) are unable to be correctly read from the card.
- When the SD card is formatted (initialized), all of the files on the card are erased.
- The folders required by the recorder are created automatically when the card is inserted into the recorder and the power is turned on.
- SD cards are not compatible with the Windows 2000 format.

Connecting to a Personal Computer

You can connect the recorder to a personal computer using the USB cabl[e] provided. Connect the small connector of the USB cable to the USB con[nection terminal on this recorder, and the large connector to the USB con]nection terminal of the personal computer. The operations described be[low] can be performed when the recorder is connected to a personal com[puter. (The recorder can be used as external memory of the personal com]puter simply by connecting with the USB cable.) Refer to the separat[e] "Software User's Guide" for more detailed information on those operations[.]

- Files (Messages) recorded with this recorder can be played back [or] copied with the personal computer. (In the case of Windows, howeve[r,] it may be necessary to convert Files (Messages) recorded in the L[P] mode with accessory software in order to play them back.)

- Since data generated with the personal computer (including image dat[a] and text data) can be recorded into the SD card, the SD card can b[e] used as external memory for the personal computer (reader-writer func[tion).

- Files (Messages) recorded with this recorder can be stored on th[e] hard disk of the personal computer.

- Files (Messages) recorded with this recorder can be attached to [e-]mail and sent in the form of voice mail (separate e-mail software [is] required).
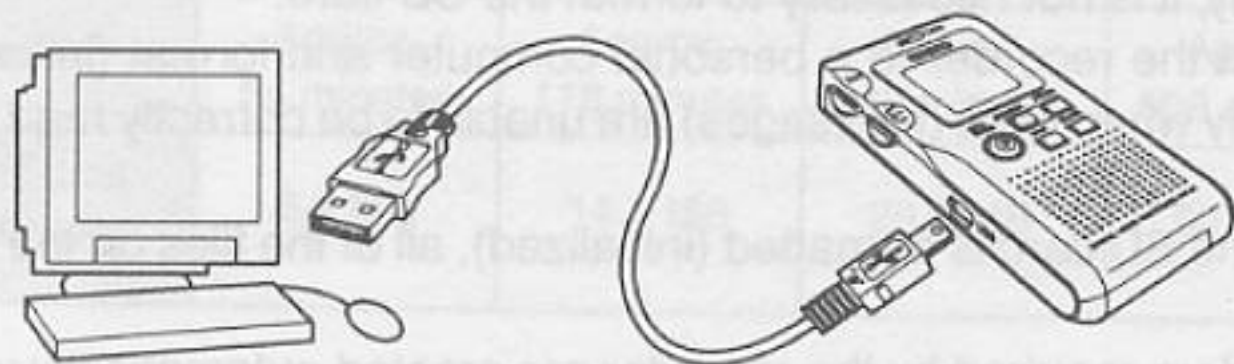
System Requirements

This recorder is compatible with both Windows and Macintosh personal computers. The system requirements for personal computers used to op[]erate this recorder are as described below.

Windows
- Models pre-installed with Microsoft Windows 2000/Me/98SE/98 that are provided with a USB interface as standard equipment (IBM PC/AT and compatibles)
  * This recorder cannot be operated with Windows 95/3.1 or WindowsNT.
- Pentium 166 MHz or higher
- 32 MB RAM
- Min. 5 MB of available hard disk space (additional available space is required by voice data)
- CD-ROM drive (for installing software)

Macintosh
- Mac OS 8.6-9.1
- iMac, iBook and PowerMacintosh or PowerBook equipped with Power PC G3 or later
- 32 MB RAM
- Min. 5 MB of available hard disk space (additional available space is required by voice data)
- CD-ROM drive (for installing the driver)

  * Operation under following conditions is not guaranteed.
  - Personal computers upgraded from Windows95/3.1 to Windows98
  - Personal computers upgraded from Windows95/NT to Windows2000
  * Operation with Windows2000 is guaranteed for Windows2000 Professional only.
  * The software may not operated properly depending on system configuration.
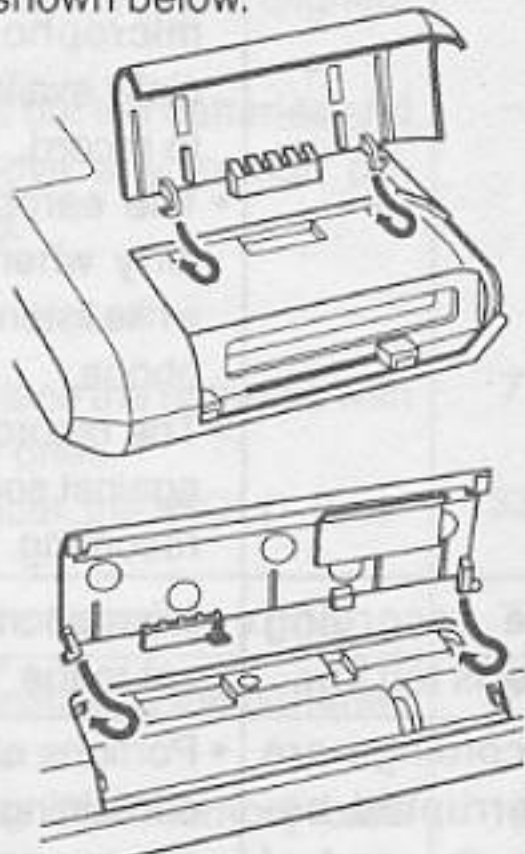 * The software may not operate properly in the case of using a USB hub.

- Microsoft, Windows and WindowsNT are the registered trademarks or trademarks of the US's Microsoft Corporation in the US and other countries.
- Pentium is the registered trademark of the US's Intel Corporation.
- IBM and PC/AT are the registered trademarks of the US's International Business Machines Corporation.
- Macintosh is the registered trademark of the US's Apple Computer Corporation registered in the US and other countries.
- Other company names or product names contained in this guide are the registered trademarks or trademarks of their respective firms.

5901-920-0-05901-920-0-04A

Troubleshooting

When you think a problem has occurred, check the suggestions indicated below before requesting repairs.

Problem	Cause	Solution	Page
Nothing happens when the buttons are pressed.	• The ⊕ and ⊖ ends of the batteries are not properly aligned.	• Insert the batteries so that they are properly aligned.	7
	• There is a foreign object inserted between the contacts of the battery terminals causing them to be insulated.	• Take out the batteries and remove any foreign objects.	–
	• The batteries are worn out.	• Replace the batteries with new ones.	7
	• The HOLD function is set to on.	• Cancel the HOLD function.	33
	• The battery door is open.	• Close the battery door.	7
The recorder does not operate properly.	• The batteries are not installed properly.	• Try installing the batteries again.	7
	• The memory card door is open.	• Close the memory card door.	12
There is no sound from the speaker.	• An earphone is plugged into the EAR jack.	• Unplug the earphone from the recorder.	–
	• The VOL. knob is turned down too low.	• Turn the VOL. knob to raise the volume.	4
The recorder is unable to record.	• An SD card is not inserted into the recorder.	• Insert the SD card into the recorder.	12
	• There is no empty recording space on the SD card.	• Delete any unnecessary Files (Messages).	25
	• The write protect switch on the SD card is in the LOCK position.	• Slide the write protect switch from the lock position.	35
	• There are already 99 Files (Messages) recorded in the selected folder.	• Either erase any unnecessary Files (Messages) or select a different folder.	25 14

Problem	Cause	Solution	Page
Playback stops or there is excessive noise.	• The recorder is being used in close proximity to electronic equipment (such as a cellular telephone).	• Use the recorder at an adequate distance from electronic equipment.	–
	• The microphone plug was dirty when an external microphone (commercially available) was used to record.	• Clean the plug.	–
	• The earphone plug was dirty when playing back while listening with an earphone.	• Clean the plug.	–
	• The recorder was rubbed against something during recording.	• Do not allow objects to contact the recorder during recording.	–
The recording level is too low.	• Microphone sensitivity is set to the "Low" mode.	• Set microphone sensitivity to the "Hi" mode.	18
Recordings are interrupted before the end of the recording.	• Portions of the recording containing low sound levels are not recorded because the VOX function is set to ON.	• Set the VOX function to OFF.	18
The recording level is unstable.	• This recorder is designed to adjust the recording level for applications such as conversation or meetings.	• It is not suited for recording music, etc.	–
The card is not recognized.	• The format is different.	• Connect to the PC and format the card.	35

Problem	Cause	Solution	Page
The recorder is unable to record for the maximum recording time.	• Recordings have been made using a combination of the SP and LP modes.	• Recording time is not constant when recordings are made using both the SP and LP modes.	17
The memory card door or battery door has come off.	• The memory card door or battery door has come off as a result of dropping the recorder or subjecting it to excessive force.	• Reattach the memory card door or battery door as shown below.	

When a Problem Has Occurred

This recorder uses a microcomputer. In the case the recorder has been subjected to strong impacts or intense static electricity and so forth during the course of use, or if it has been operated improperly, and it no longer responds to operation, a problem may have occurred. When this happens, please follow the procedure described below.

1. Take out all of the batteries.
2. Wait briefly (for about 5 minutes).
3. Reinstall the batteries.

Specifications

Recording method	Digital monaural recording
Recording medium	SD memory card/MMC (multimedia card)
Max. recording time	SP (standard play) mode: Approx. 27 minutes
	LP (long play) mode: Approx. 54 minutes
	* When using a 8 MB SD memory card
Max. no. of Files (Messages)	4 x 99 Files (Messages)
Speaker	32 mm round, 8 Ω x 1
Input/output jacks	MIC jack: 3.5 mm monaural mini-jack, 0.03 mV (compatible impedance: 3 kΩ or less) input, plug-in power compatible
	EAR jack: 3.5 mm monaural mini-jack (compatible impedance: 32 Ω or more) output
	USB connector: 5-pin mini
Practical max. output	100 mW
Power source	Two size AAA alkaline batteries (LR03): DC 3 V
Dimensions	53.3 (W) x 100 (H) x 18 (D) mm
Weight	Approx. 90 g (including batteries)
Accessories	USB cable x 1, CD-ROM x 1, SD card (8MB) x 1, Batteries (LR03) x 2

Battery Life (when using size AAA alkaline batteries (LR03))

	Recording mode	Continuous usage time
During recording	SP	Approx. 14 hours
	LP	Approx. 14 hours
During playback*1	SP	Approx. 11 hours
	LP	Approx. 11 hours

1: When playing back with the VOLUME knob set in the vicinity of the center position.

Battery continuous usage time may be shorter depending on conditions of use.

These specifications are subject to change without notice.