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IC Recorder

Operating Instructions

V O I C E F I L E

ICD-70

Owner's Record

The model number is located at the rear and the serial number is located inside the battery compartment. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. ICD-70

Serial No. _____

INFORMATION

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

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

Declaration of Conformity

Trade Name: SONY
Model No.: ICD-70
Responsible Party: Sony Electronics Inc.
Address: 1 Sony Drive, Park Ridge, NJ.07656 USA
Telephone No.: 201-930-6970

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

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What is the ICD-70 IC recorder?

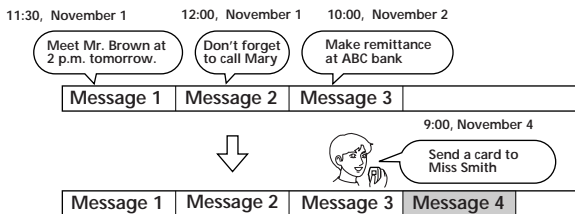
The ICD-70 IC recorder enables you to record and play back oral messages in the built-in IC memory.

Recording

When a new message is recorded, it is automatically added after the last recorded message.

Unlike with tape recorders, you do not need to worry about recording over previously recorded messages by mistake.

Since you do not need to search for the end of the last recording, you can start recording quickly whenever you wish.



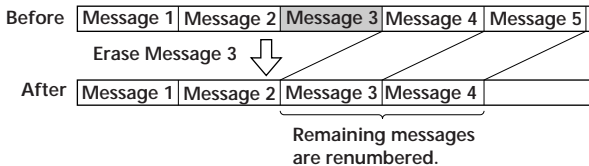
Playback

With this IC recorder, you can quickly locate the message you want to play back.

Reviewing the current recording is also very easy.

Erasing

You can quickly erase unwanted messages with an easy operation. When a message is erased, the next message automatically advances, leaving no blank space.



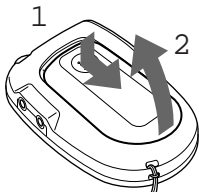
Features

- **16 minutes (SP)/24 minutes (LP) recording time**
- **Easy operation with a jog dial**
Various operation can be done by simply turning and pressing the jog dial.
- **Organizing message files**
You can choose among 5 different files (see page 11) to record your messages according to your purpose:
 - ☑ (ACTION)
 - 📅 (SCHEDULE)
 - 1📄 (MEMO-1)
 - 2📄 (MEMO-2)
 - 🔒 (SECRET)You can move messages from one file to another (See page 24).
Up to 99 messages can be recorded in each file.
- **Priority marks (Page 22)**
You can attach up to three priority marks (★) to important messages. Messages are rearranged in the order of their priority, i.e. messages with more priority marks are placed before those with less priority marks.
- **Advanced VOR (Voice Operated Recording) function (Page 18)**
When this function is activated, the recorder automatically starts and stops recording in response to the sound. This advanced function starts recording instantly when a sound is heard, preventing the beginning of the recording from being cut off.
- **Alarm function (Page 28)**
You can start playing back a desired message with an alarm on a desired date and time.
- **Secret function (Page 25)**
By setting an ID code (4-digit number), you can lock the messages in the secret file. This prevents confidential messages from being played back by others.
- **Timer function (Page 32)**
- **External microphone jack (Page 21)**
- **Using the files with a personal computer (See "Optional accessories" on page 43.)**
When you connect this recorder to a personal computer with WAV LINK software (available in spring 1998; floppy disk and a connecting cable) installed, you can transfer the messages recorded in this IC recorder to the computer. Then you can store the messages in the computer and attach them to your e-mail. Also, you can search the messages in the IC 5 recorder by date, priority marks or alarm settings.

Step 1: Installing the Batteries

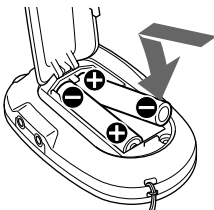
1

Slide and lift the battery compartment lid.

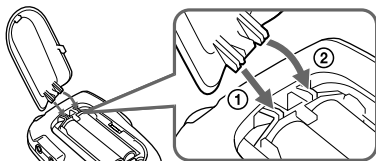


2

Insert two size AAA (LR03) alkaline batteries with correct polarity, and close the lid.



If the battery compartment lid is accidentally detached, attach it as illustrated.



Clock setting display appears when you insert batteries for the first time, or when you insert batteries after the unit has been without batteries for a certain period of time. Please refer to Steps 2 to 4 in “Step 2: Setting the Clock” on page 8 to set the date and time.

Note

Make sure to close the lid completely. Otherwise the unit will not operate.

Charging the clock battery

Before using the IC recorder for the first time, or if you have not used the unit for a long time, you first need to charge the built-in clock battery. Install the batteries in the battery compartment and leave them for more than one day. The clock battery will be automatically charged. (You can use the unit while charging.) If you remove the batteries while charging the clock battery, the unit will be reset to the initial setting. Once you have charged the clock battery, you do not have to recharge it, as long as batteries are installed. When the clock battery is recharged, settings such as clock setting are maintained for about 3 minutes.

Replacing the battery

“i” appears on the display when the batteries become weak and it flashes when the batteries are exhausted. Replace the batteries with new ones.

Battery life

Sony alkaline batteries LR03 (SG)
approx. 1.5 months*

* When recording in LIGHT OPR mode for 2 minutes and playing back for 3 minutes every day.

Notes

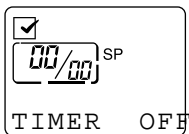
- When you replace the batteries, insert new batteries within 3 minutes after you removed the exhausted ones, otherwise all the settings you have made will be reset to the initial settings.
The recorded messages, however, will remain.
- When replacing the batteries, be sure to replace both batteries with new ones.
- Do not charge dry batteries.
- When you are not going to use the unit for a long time, remove the batteries to prevent damage from battery leakage and corrosion.

Step 2: Setting the Clock

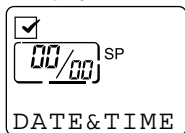
You need to set the clock to display the date and time of recording, and to use the alarm function.

1 Display the clock setting display.

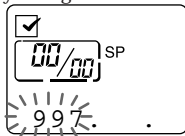
- 1 Press MENU to enter the menu mode.*



- 2 Turn the jog dial upward once to display "DATE & TIME".



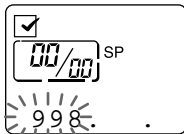
- 3 Press the jog dial to flash the year. The year digits will flash.



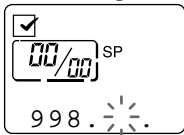
* The "ALARM" display may appear instead of the "TIMER" display (see page 46).

2 Set the date.

- 1 Turn the jog dial to select the digits of the year.



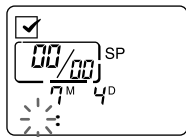
- 2 Press the jog dial. The month digits will flash.



8

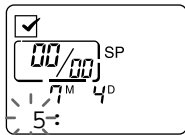


- 3 Set the month and day in sequence, then press the jog dial. The hour digits will flash.

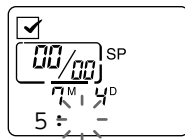


3 Set the time.

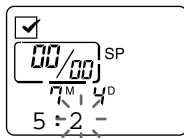
- 1 Turn the jog dial to select the digits of the hour.



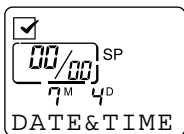
- 2 Press the jog dial. The minute digits will flash.



- 3 Set the minute.

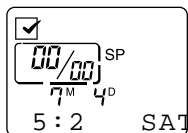


- 4 Press the jog dial at the time signal. The display will return to "DATE & TIME".



4 Exit from the menu mode.

Press MENU.



Recording Messages

You can record up to 99 messages in each file.

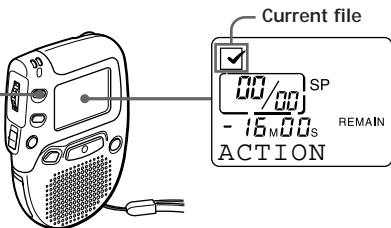
Since a newly recorded message is automatically added behind the last recorded message, you can start recording quickly without searching for the end of the last recording.

e.g.

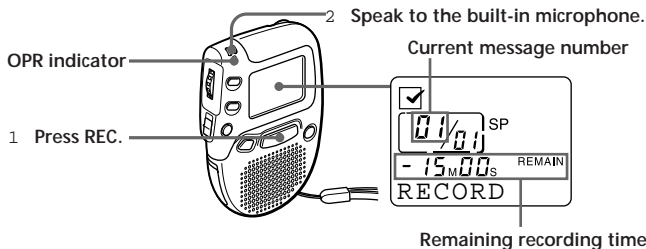
Message 1	Message 2	Newly recorded message	Blank space
-----------	-----------	------------------------	-------------

1 Select the file.

Press FILE repeatedly until the icon of the desired file is displayed.

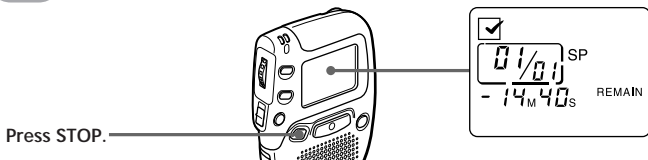


2 Start recording.



During recording, the OPR indicator lights up in red. You do not need to keep pressing REC while recording.

3 Stop recording.



If you do not change the file icon after you stop recording, the next time you record you will record in the same file.

To listen to the current recording

Press STOP to stop recording, then press the jog dial.

To review the current recording instantly

Press the jog dial during recording.

5 different files

Select among 5 files:

<input checked="" type="checkbox"/>	ACTION file	for recording action plans
	SCHEDULE file	for recording appointments, etc.
	MEMO-1 file	free
	MEMO-2 file	free
	SECRET file	for recording personal or confidential notes*

* To prevent confidential messages from being played back by others, see page 25.

Recording Messages (continued)

Notes

- When the remaining time of recording reaches 1 minute, “NEAR END” will flash in the display window. When the memory is full, recording automatically stops and “MemoryFull” will flash in the display window with an alarm sound. To continue recording, first erase some of the messages. (Page 16)
- If you press REC when the memory is full, “MemoryFull” will flash with an alarm sound. Erase some of the messages before you start recording again. (Page 16)
- If you press REC after you have recorded 99 messages, “INDEX FULL” will flash with an alarm sound. Select another file or erase some of the messages. (Page 16)

Tips

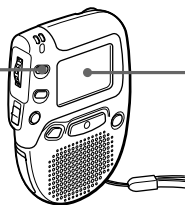
- You can record for up to 16 minutes in SP (standard play) mode and 24 minutes in LP (long play) mode. If you record messages in a mixture of SP and LP modes, the recordable time varies from 16 to 24 minutes. To change the recording mode, see page 35.
- You can select the microphone sensitivity. See page 38.
- You can record with an external microphone. See page 21.

Playing Back Messages

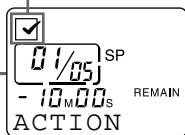
When playing back a previously recorded message, start from Step 1.
When playing back a message you have just finished recording, start from Step 3.

1 Select the file.

Press FILE repeatedly until the icon of the desired file is displayed.



Current file

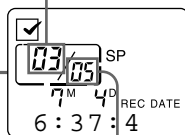


2 Select the message number.

Turn the jog dial to display the desired message number



Selected message number



Total number of messages in the current file

for smaller message number

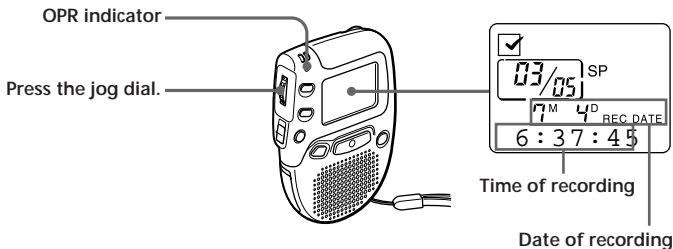
for larger message number



Continued

Playing Back Messages (continued)

3 Start playback.



During playback, the OPR indicator lights up in green.

After playing back one message, the unit stops at the beginning of the next message.

When the last note on a file has been played back, the unit stops at the beginning of the last note.

4 Adjust the volume.



To stop playback

To	Do this
stop at the beginning of the current message	Press STOP.
stop at the current position	Press the jog dial.

Other operations

To	Do this
skip to the next message	Turn the jog dial downward until you find the message number you want to play.
skip to the previous message	Turn the jog dial upward until you find the message number you want to play.
search forward during playback	Turn the jog dial downward while pressing it and keep it pressed.
search backward during playback	Turn the jog dial upward while pressing it and keep it pressed.

Playing back a message repeatedly — Repeat Play

During playback, press the jog dial for more than 2 seconds.

“↶” will be displayed and the selected message will be played back repeatedly until you stop playback by pressing STOP or the jog dial.

Playing the beginning of each message — Scanning Play

During stop mode, press the jog dial for more than 2 seconds.

“SCAN” will be displayed in the display window and the first 5 seconds of each message in the selected file will be played back.

When you find the desired message, press the jog dial. The message will be played back until the end.

For private listening

Connect an earphone (not supplied) to the @ jack.

The built-in speaker will be automatically disconnected.

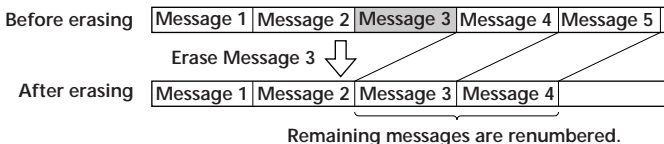
Erasing Messages

You can erase the recorded messages one by one or all messages in a file at a time.

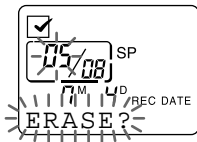
Note that once a recording has been erased, you cannot retrieve it.

Erasing messages one by one

When a message is erased, the remaining messages will advance and renumbered so that there will be no space between messages.



- 1 Press ERASE while playing back the message you want to erase or press ERASE for more than 1 second during stop mode. A beep will sound and the message number and "ERASE?" will flash while the first and last 5 seconds of the message is played back 10 times.



- 2 Press ERASE while the message is being played back. The message is erased and the remaining messages will be renumbered.

To cancel erasing

Press STOP before step 2 .

To erase other messages

Repeat steps 1 and 2 .

Erasing all messages in a file

e.g.

ACTION file

Message 1	Message 2	Message 3	Blank space
-----------	-----------	-----------	-------------

SCHEDULE file

Message 1	Message 2	Message 3
-----------	-----------	-----------

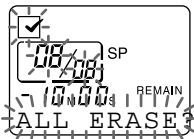
Blank space

Message 1	Message 2	Message 3
-----------	-----------	-----------

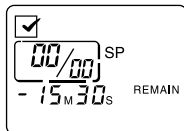
- 1 Press **FILE** to select the file you want to erase.



- 2 Press **ERASE** and **STOP** at the same time for more than 1 second. The icon of the file, the message number and "ALL ERASE?" will flash.



- 3 Press **ERASE**.

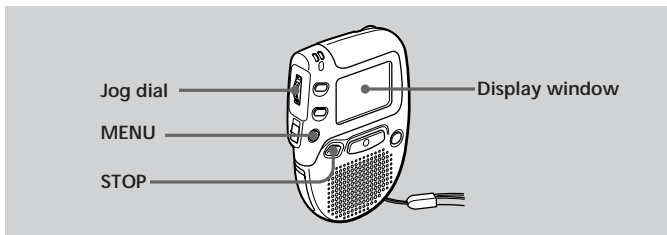


To cancel erasing

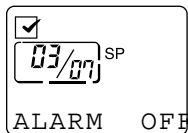
Press **STOP** before step 3 .

Starting Recording Automatically in Response to the Sound — Advanced VOR function

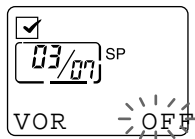
When VOR (voice operated recording) function is set to on, recording starts when the recorder detects sound and stops when no sound is heard.



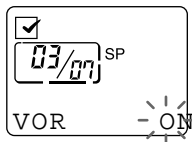
- 1 Press MENU to enter the menu mode.



- 2 Turn the jog dial to display "VOR OFF (or ON)", then press the jog dial. "OFF (or ON)" starts to flash.

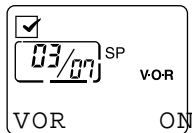


3 Turn the jog dial to flash "ON".

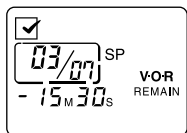


4 Press the jog dial.

The setting is completed.



5 Press MENU again to exit the menu mode.



When you record messages with VOR set to ON, the recording pauses when no sound is detected, "RecStandby" appears and "VOR" flashes.

To cancel VOR

Follow the steps above and select "OFF" in step 3.

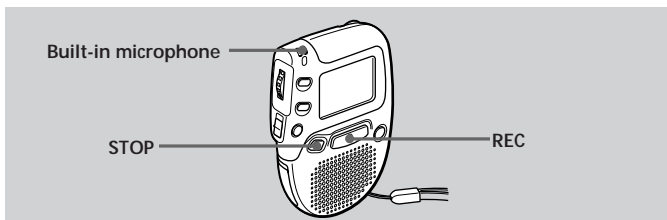
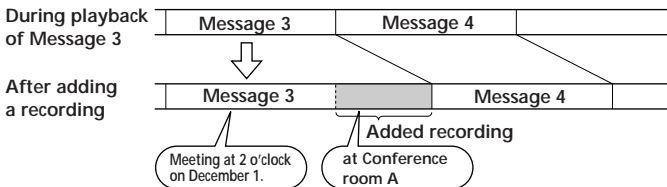
Note

VOR function is affected by the sound around you. Select the microphone sensitivity according to the situation (see page 38). If recording is not satisfactory after you have changed the microphone sensitivity, set VOR to OFF.

Adding a Recording to a Previously Recorded Message

You can add a recording to the message being played back.

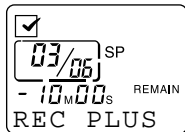
The added recording will be placed after the current message and counted as a part of the message.



- 1 During playback, press REC for more than 1 second.

“REC PLUS” is displayed and the OPR indicator will light in red.

Speak into the built-in microphone.



- 2 Press STOP to stop the recording.

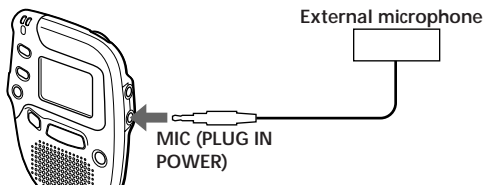
Note

The added message will be recorded in the same recording mode (SP or LP; see page 35) as the original message, regardless of the current recording mode setting.

Recording with an External Microphone or Other Equipment

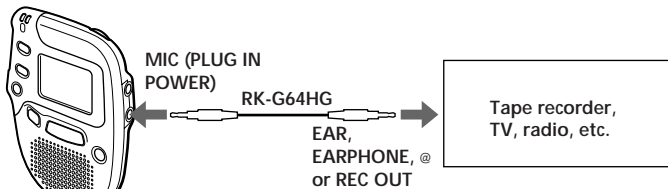
- 1 Connect a plug-in-power type microphone or other equipment to the MIC (PLUG IN POWER) jack.

When recording with an external microphone



When you connect an external microphone, the built-in microphone is automatically cut off. When a plug in power type microphone is connected, power is automatically supplied to the microphone from the IC recorder.

When recording from other equipment



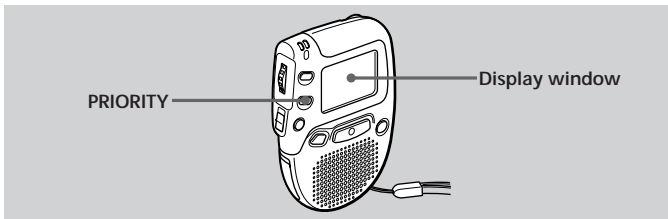
- 2 Follow the steps in "Recording messages" on page 10 to record messages.

Notes

- Make sure that the plugs are connected securely.
- We recommend you make a trial recording to check the connections and volume control.
- When connecting equipment other than Sony's, refer to the instruction manual of the equipment.

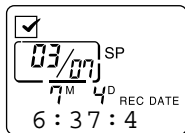
Renumbering the Messages according to their Priority — Priority Marks

Usually the recorded messages are lined up in the order of recording. By adding priority marks (★) to important messages, you can renumber the messages in the order of their priority. You can add up to three priority marks with “★★★” being the most important.

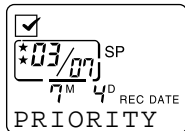


During stop mode

- 1 Turn the jog dial to select the desired message.

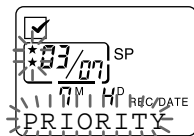
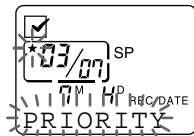


- 2 Press PRIORITY to display ★. Every time you press PRIORITY, the display changes in the following order: ★ n ★★ n ★★★ n no mark.



During playback

- 1 Press **PRIORITY** to display ★.
The first and last 5 seconds of the message will be played back.
- 2 Press **PRIORITY** repeatedly to select the number of the priority marks.
- 3 Press **STOP**.



The messages with priority marks are rearranged according to the number of the marks.

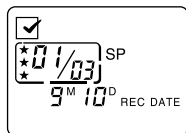
Messages with no priority marks are placed after those with priority marks.

During stop mode, messages are rearranged every time a priority mark is added. During playback, messages are rearranged after you press **STOP**.

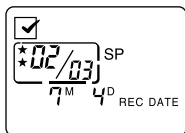
The messages with the same number of priority marks are arranged in the order of recording.

e.g.

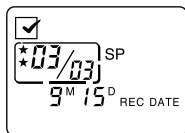
When there are 3 messages in a file, they are arranged as follows:



Message 1



Message 2



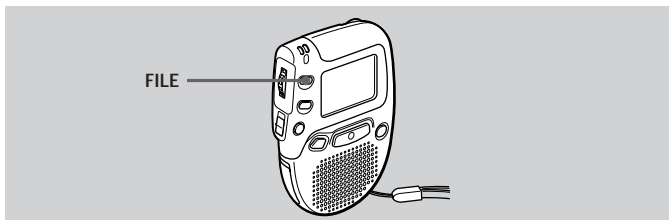
Message 3

Note

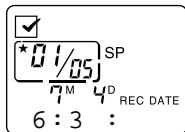
While messages are being rearranged, "--" is displayed in the message number display.

Moving Messages to a Different File — Move Function

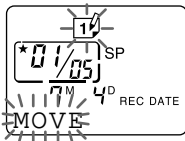
You can move recorded messages to a different file.



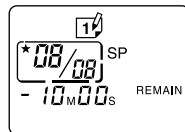
- 1 Play back the message you want to move.




- 2 Press FILE during playback to select the file you want to move the message to. The icon of the file and "MOVE" will flash and the first and last 5 seconds of the message will be played back 10 times.



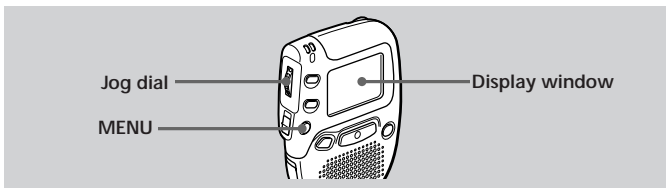
- 3 Press STOP.



Preventing Confidential Messages from being Played Back by Others — Secret Function

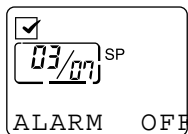
You can set an ID code (4-digit number) to prevent confidential messages in the  (SECRET) file to be played back by others.

When the secret function is set to on, you cannot play back the messages unless you enter the ID code; however, you can add new recordings to the secret file.

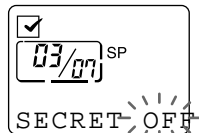


To set the secret function

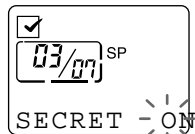
- 1 Press MENU to enter the menu mode.



- 2 Turn the jog dial to display "SECRET OFF (or ON)" and press the jog dial.



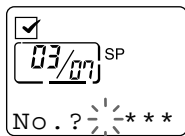
- 3 Turn the jog dial to flash "ON".



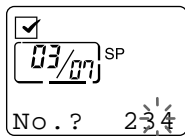
Continued

Preventing Confidential Messages from being Played Back by Others — Secret Function (continued)

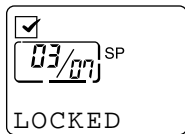
- 4** Press the jog dial.
“No. ? 0***” will be displayed.



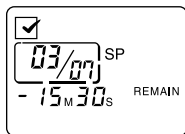
- 5** Set the ID code.
Turn the jog dial to select a digit and press the jog dial.
Repeat this step to select the four digits.




- 6** Press the jog dial.
“LOCKED” will be displayed and the secret function is set.

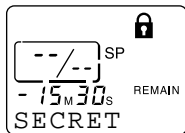


- 7** Press MENU to exit the menu mode.

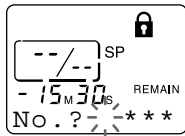


To play back messages in the SECRET file

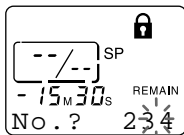
- 1** Press FILE to select the  (SECRET) file.
“--/--” will be displayed in the message number display.



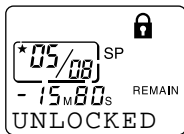
- 2** Press the jog dial.
“No. ? 0***” will be displayed.



- 3** Input the ID code, following Step 5 in “To set the secret function”.



- 4** Press the jog dial.
“UNLOCKED” and the message number will be displayed.



To start playback, follow the steps in “Playing back messages” on page 13.

If you leave the unit unoperated after step 4, the display will turn to the clock display after 3 seconds, and the unit will go back to the “LOCKED” mode after 1 minute.

If you enter a wrong ID code

“>>WRONG<<” will be displayed.

Press the jog dial once and enter the correct number.

If you erase all messages in the SECRET file (see page 17)

Secret setting will be cancelled (the display will show “SECRET OFF”).

If you forget your ID code

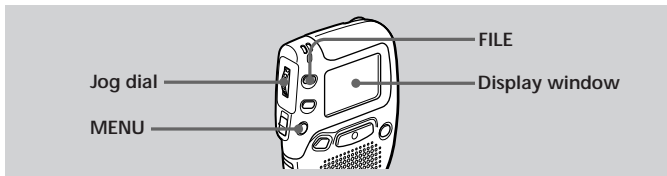
Cancel the secret setting by erasing all messages in the SECRET file as mentioned above. Note that erased messages cannot be retrieved.

To cancel the secret setting

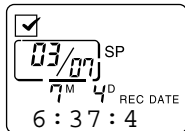
- 1 Press MENU to enter the menu mode.
- 2 Turn the jog dial to display “SECRET ON” and press the dial.
- 3 Turn the jog dial to flash “OFF” and press the jog dial.
- 4 Enter the ID number and press the jog dial.
- 5 Press MENU to exit the menu mode.

Playing Back a Message at a Desired Time with an Alarm

You can sound an alarm and start playback of a selected message at a desired time.

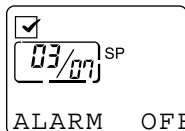


- 1 Use FILE and the jog dial to select the file and the message you want to play back.

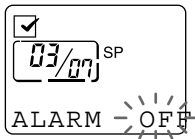


- 2 Enter the alarm setting mode.

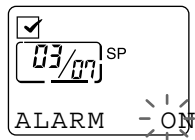
- 1 Press MENU to enter the menu mode.



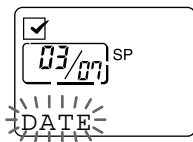
- 2 Turn the jog dial to display "ALARM OFF (or ON)" and press the jog dial. "OFF (or ON)" starts to flash.



- 3 Turn the jog dial to flash "ON".



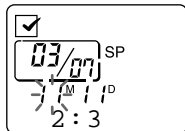
- 4 Press the jog dial.
"DATE" will flash in the display window.



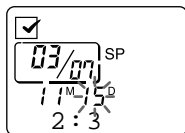
3 Set the alarm date.

- to play back on a desired date (the message will be played back at the same time on the same date every year until you erase the message)

- 1 Press the jog dial when "DATE" is displayed.
The month digits will flash.

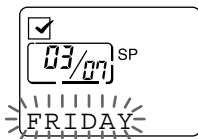


- 2 Turn the jog dial to select the month digits and press the jog dial.
The day digits will flash.

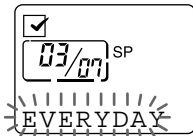


- 3 Turn the jog dial to select the day digits.

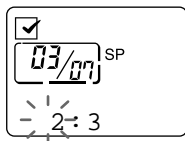
- to play back once a week
Turn the jog dial to select the day of the week.



- to play back at the same time every day
Turn the jog dial to select "EVERYDAY".



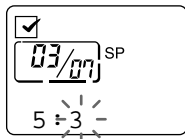
- 4 Press the jog dial
The hour digits will flash.



Playing Back a Message at a Desired Time with an Alarm (continued)

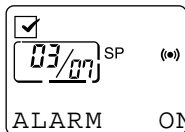
5 Set the alarm time.

- 1 Turn the jog dial to select the hour digits and press the jog dial.
The minute digits will flash.

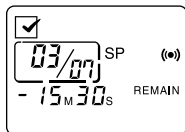


- 2 Turn the jog dial to select the minute digits and press the jog dial.

"ALARM ON" and "~" will be displayed to indicate that the setting has been completed.



6 Press MENU to exit the menu mode.



"~" is displayed when the number of the message with alarm setting is selected.

At the set time, the alarm will sound for about 10 seconds and the selected note will be played back.

During playback, "ALARM" will flash in the display window.

Playback will stop at the end of the message.

To cancel the alarm setting before the playback starts

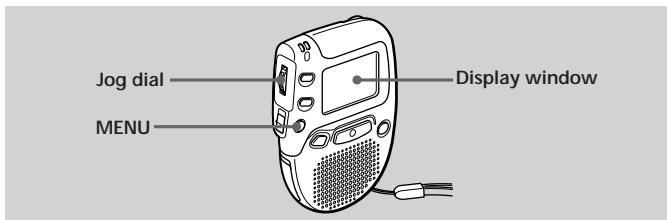
Press STOP while the alarm sound is heard. You can stop even when the HOLD switch is set to ON.

Notes

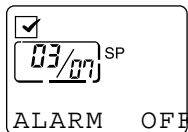
- You cannot set the alarm if you have not set the clock.
- If you wish to set the alarm to play back the messages in the secret file when the secret function is set to ON, first enter the ID code to unlock the secret file (see page 27) and proceed with the alarm setting while “UNLOCKED” is being displayed, or cancel the secret setting (see page 27).
- If you try to set the alarm to play back a message at a previously set time, “AlreadySet” will be displayed, preventing new settings.
- If the alarm time comes while another message is being played back with an alarm, the playback stops and the new message will be played back. If the alarm time comes during recording, alarm will sound for 10 seconds after the recording is finished and playback begins. “~ ” will flash when the alarm time comes.
- If more than one alarm time comes during recording, only the first message will be played back.
When the alarm time comes when the unit is in the menu mode, alarm will sound and the menu mode will be cancelled.
- If you erase the message you set the alarm to play back, the alarm setting will be cancelled.
- You can adjust the playback volume with the VOL control.
- Alarm setting will not be cancelled when the alarm playback finishes. To cancel alarm setting, see page 30.

Sounding a Beep Sound after a Desired Duration — Timer Function

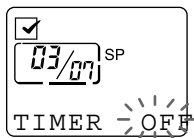
You can choose a duration from 120 minutes down to 1 minute.



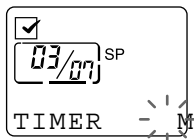
- 1 Press MENU to enter the menu mode.



- 2 Turn the jog dial to display "TIMER OFF (or ON)" and press the jog dial.

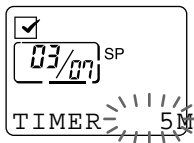


- 3 Turn the jog dial to display "TIMER ON" and press the jog dial. "TIMER" and the remaining minutes will be displayed.



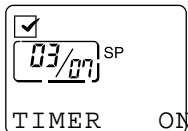
4 Set the timer.

- 1 Press the jog dial to set the remaining minutes.
You can choose a number between 120 and 1.

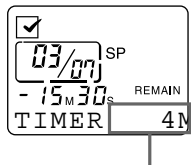


- 2 Press the jog dial.

“TIMER ON” will be displayed to indicate that the setting has been completed.



5 Press MENU to exit the menu mode.



Remaining minutes

After a few seconds, the display will change to the remaining minute display.

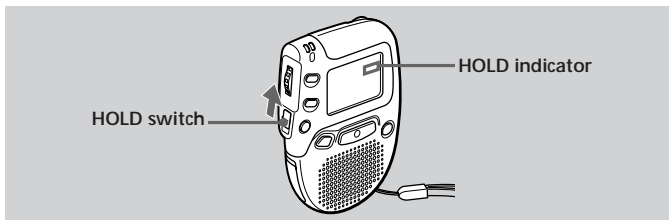
The number will decrease by one every minute until 1 minute and every second after that.

At the 0 second, “TIMER 0S” will flash and a beep sound will sound for one minute.

To stop the beep sound

Press STOP.

Preventing Accidental Operation — HOLD function



Slide the HOLD switch in the direction of the arrow. "HOLD" is displayed, indicating that all the functions of the buttons are locked, except for STOP to stop an alarm.

To cancel the HOLD function, simply slide the HOLD switch in the opposite direction.

Note

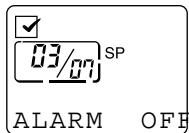
When the HOLD function is activated, any alarm that has been set will still be heard.

Selecting the Recording Mode

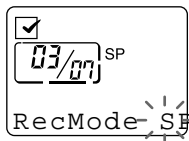
Rec Mode SP: You can make up to 16 minutes of recording with better sound.

Rec Mode LP: You can make up to 24 minutes of recording.

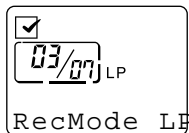
1 Press MENU to enter the menu mode.



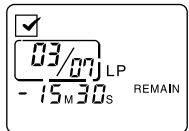
2 Turn the jog dial to display "RecMode SP (or LP)" and press the jog dial.
"SP (or LP)" will flash.



3 Turn the jog dial to select "SP" or "LP" and press the dial.
Now the setting is completed.



4 Press MENU to exit the menu mode.

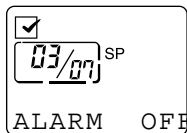


Turning off the Beep Sound

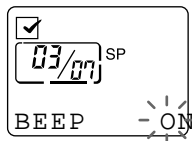
BEEP ON: A beep will sound to indicate that operation has been accepted.

BEEP OFF: No beep sound will be heard except for the alarm and timer.

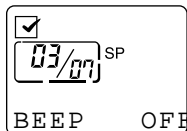
1 Press MENU to enter the menu mode.



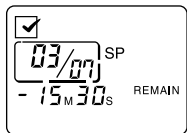
2 Turn the jog dial to display "BEEP ON (or OFF)" and press the jog dial.
"ON (or OFF)" will flash.



3 Turn the jog dial to select "ON" or "OFF" and press the jog dial.
The setting is completed.



4 Press MENU to exit the menu mode.



What beep sound means

Beep patterns	Meaning
- (single tone)	Usual mode
-- (double tone)	Enter/exit special mode
--- (triple tone)	Notice*
---- ---- (continuous beep)	Alarm or timer set time has come.

* This pattern lets you know the procedure is wrong or informs you of some messages, such as:

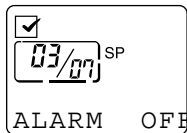
- you are trying to record a message when you have already recorded up to the maximum recordable time or the maximum number of messages.
- the unit has stopped functioning due to lack of battery power.

Selecting the Microphone Sensitivity

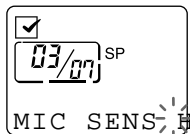
MIC SENS H: High sensitivity. Enables you to record with clearer sound. Selecting this position is recommended for usual recording.

MIC SENS L: Low sensitivity. Select this mode to eliminate the noisy sound in the background. (Speak closely to the microphone when recording.)

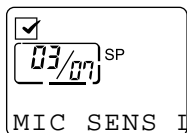
- 1** Press MENU to enter the menu mode.



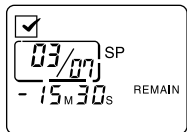
- 2** Turn the jog dial to display "MIC SENS H (or L)" and press the dial. "H (or L)" will flash.



- 3** Turn the jog dial to select "H" or "L" and press the jog dial. Now the setting is completed.



- 4** Press MENU to exit the menu mode.

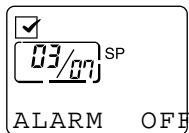


Playing Back All Messages in a File Continuously

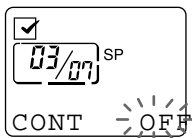
CONT ON: You can play back all messages in a file continuously.

CONT OFF: Playback stops at the end of each message.

- 1** Press MENU to enter the menu mode.

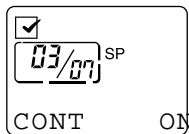


- 2** Turn the jog dial to display "CONT OFF (or ON)" and press the jog dial.
"OFF (or ON)" will flash.

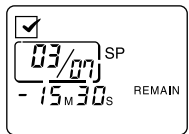


- 3** Turn the jog dial to select "ON" or "OFF" and press the jog dial.

Now the setting is completed.



- 4** Press MENU to exit the menu mode.

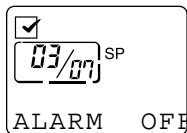


Selecting the Illumination Mode of LCD Back Light

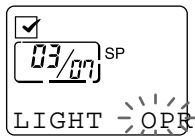
LIGHT OPR: The display window is illuminated for 3 seconds after each operation.

LIGHT ALL: The display window is illuminated at all times during operation.

1 Press MENU to enter the menu mode.

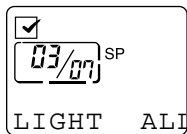


2 Turn the jog dial to display "LIGHT OPR (or ALL)" and press the jog dial.
"OPR (or ALL)" will flash.

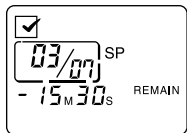


3 Turn the jog dial to select "OPR" or "ALL" and press the jog dial.

Now the setting is completed.



4 Press MENU to exit the menu mode.



When the unit is not being operated (when the display shows the current time), you can illuminate the display window by pressing STOP. This enables you to check the time even in a dark place.

Precautions

On power

- Operate the unit only on 3 V DC. Use two size AAA (LR03) alkaline batteries.

On safety

- Do not operate the unit while driving, cycling or operating any motorized vehicle.

On handling

- Do not leave the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock.
- Should any solid object or liquid fall into the unit, remove the batteries and have the unit checked by qualified personnel before operating it any further.

On noise

- Noise may be heard when the unit is placed near an AC power source, a fluorescent lamp or a mobile phone during recording or playback.

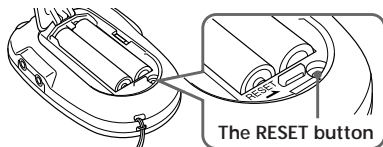
Keep personal credit cards using magnetic coding or spring-wound watches, etc., away from the unit to prevent possible damage from the magnet used in the speaker.

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

Troubleshooting

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

Symptom	Remedy
The unit does not operate.	<ul style="list-style-type: none">• The batteries have been inserted with incorrect polarity.• The batteries are weak.• The battery compartment lid is not closed completely.• The buttons are locked with the HOLD switch.
No sound comes from the speaker.	<ul style="list-style-type: none">• The earphone is plugged in.• The volume is turned down completely.
Noise is heard.	<ul style="list-style-type: none">• Plug of the connected microphone was dirty when recording. Clean the plug.• Earphone plug is dirty. Clean the plug.
Recording level is low.	<ul style="list-style-type: none">• Microphone sensitivity is set to "MIC SENS L". Set it to "MIC SENS H" (see page 38).
Recording automatically stops.	<ul style="list-style-type: none">• Advanced VOR (page 18) is activated. Set it to "VOR OFF" when you do not need it.
"--:-- --" is displayed.	<ul style="list-style-type: none">• You have not set the clock.
"--M--D" is displayed on the REC DATE display.	<ul style="list-style-type: none">• The date of recording will not be displayed if you recorded the message when the clock was not set.
The index number shows "--/--".	<ul style="list-style-type: none">• The messages in the SECRET file have been locked. Cancel the secret setting. See page 27.
The unit does not operate correctly.	<ul style="list-style-type: none">• Press the RESET button with a pen point. The unit will be reset to the initial setting. The recorded messages, however, will not be erased and the alarm setting will not be cancelled.



Specifications

Recording media	Built-in flash memory, Monaural recording
Recording time	SP: 16 minutes LP: 24 minutes
Frequency response	SP: 250 Hz - 3,500 Hz LP: 250 Hz - 2,400 Hz
Speaker	approx. 2.8 cm (1 1/8 in.) dia.
Power output	70 mw
Output	Earphone jack (mini jack) for 8 - 300 ohms earphone
Input	Microphone jack (mini jack, monaural) Plug in power Minimum input level 0.3 mV 3 kilohms or lower impedance microphone Digital I/O connector (15-pin)
Power requirements	Two size AAA (LR03) alkaline batteries: 3 V DC
Dimensions (w/h/d) (incl. projecting parts and controls)	57.4 × 85 × 23.2 mm (2 ³ / ₈ × 3 ³ / ₈ × 1 ⁵ / ₁₆ in.)
Weight (not incl. batteries)	Approx. 50 g (1.8 oz)
Supplied accessories	Hand strap × 1 (attached to the unit) Size AAA (LR03) alkaline battery × 2
Optional accessories	Active speakers SRS-T1 Connecting cable RK-G64HG WAV LINK software (available in spring '98) <ul style="list-style-type: none">• For IBM PC/AT* or compatible PC• For Windows® 95/Windows® 3.1** (English version)• To play back messages on the computer, a sound board must be installed in the computer. Your dealer may not handle some of the optional accessories listed above. Please ask the dealer for detailed information.

Design and specifications are subject to change without notice.

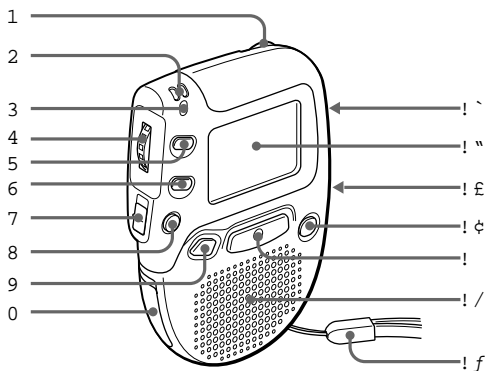
* IBM PC/AT is a registered trademark of International Business Machines Corporation of the U.S.A.

** Windows® 95 and Windows® 3.1 are registered trademarks licensed to Microsoft Corporation, registered in the U.S.A. and other countries.

Index to Parts and Controls

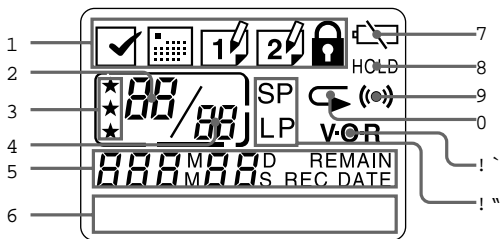
Refer to the pages indicated in parentheses for details.

Main unit



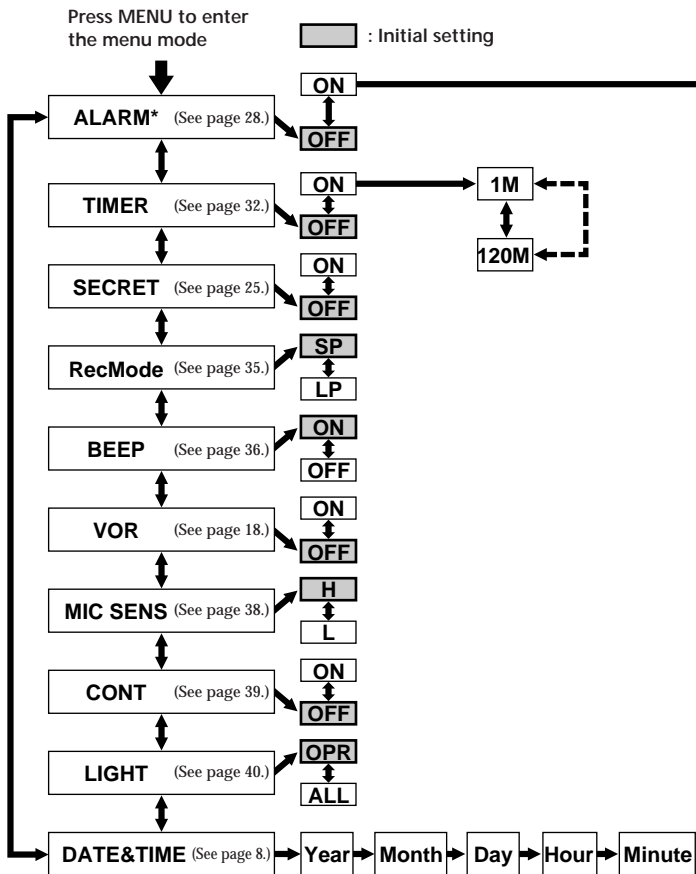
- | | |
|--|---|
| 1 VOL (volume) control (14) | 8 MENU button (8) |
| 2 MIC (built-in microphone) (10) | 9 STOP button (11) |
| 3 OPR (operation) indicator (10) | !... DIGITAL 1/□ connector (for connecting to a computer) (5) |
| 4 Jog dial (8)
PLAY/STOP
= /+ (fast forward/fast backward)
↑/↓ (menu selection) | ! ^ @ (earphone) jack (15) |
| 5 FILE button (10, 13) | ! ^ Display window (8) |
| 6 PRIORITY button (22) | ! £ MIC (PLUG IN POWER) jack (21) |
| 7 HOLD switch (34) | ! ¢ ERASE button (16) |
| | ! REC (record) button (10) |
| | ! / Speaker |
| | ! f Hand strap |

Display window



- | | | | |
|---|--|------|---------------------------------|
| 1 | File icons (11) | 7 | Battery exhausted indicator (7) |
| 2 | Current message number (10) | 8 | HOLD indicator (34) |
| 3 | Priority marks (22) | 9 | Alarm indicator (30) |
| 4 | Total number of messages in a file (13) | !... | Repeat play indicator (15) |
| 5 | REMAIN (Remaining recording time) indication (10) | ! ^ | Digital VOR indicator (19) |
| | REC DATE (Recording date) indication (14) | !" | Recording mode indication (35) |
| 6 | Current time/day indication (8)
(15:30 TUE, etc.)
Recording time indication (14)
(10:10:10, etc.)
Menu indication (8)
(ALARM OFF, etc.)
File name (11)
(ACTION , SCHEDULE, etc.)
Messages (10, 16)
(RECORD, ERASE?, etc.) | | |

Menu map



* The "ALARM" display will not appear if you have not set the date and time or if there is no recorded message.

