

DIGITAL TYPE
Cal. M516 VOICE RECORDER
ALARM CHRONOGRAPH

SEIKO QUARTZ

INSTRUCTIONS (P. 1)

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GEBRAUCHSANWEISUNGEN (S. 58)

You are now the proud owner of a SEIKO Digital Watch Cal. M516, in which a voice memory function is provided to meet the requirements of the information-oriented society. Please read the instructions in this booklet carefully for its proper use and care, and keep this manual for ready reference.

Vous voilà désormais en possession d'une montre numérique SEIKO Cal. M516 où a été incorporée une fonction de mémorisation vocale, destinée à répondre aux exigences de notre société où le primat est accordé à l'information. Veuillez lire attentivement ce mode d'emploi et le conserver pour toute référence ultérieure.

Puede sentirse orgulloso de poseer el reloj digital SEIKO Cal. M516, provisto de una función de memoria de voz para cumplir con los requisitos de una sociedad orientada hacia la información. Lea detenidamente las instrucciones de este folleto a fin de usarlo y cuidarlo apropiadamente, y conserve este manual como referencia.

Sie sind nun stolzer Besitzer einer SEIKO Digitaluhr Kal. M516, die mit einer Sprachspeicherfunktion versehen ist, um den Ansprüchen der modernen, informationsorientierten Gesellschaft gerecht zu werden. Bitte lesen Sie die Gebrauchsanleitungen in diesem Büchlein gut durch und behalten Sie es, um es bei Bedarf noch einmal zu Rate zu ziehen.

Siete ora in possesso di un orologio digitale SEIKO Cal. M516, contenente una funzione di memorizzazione vocale che consente di mantenere il passo con una società orientata verso l'informazione. Leggete attentamente questo manuale di istruzioni per un migliore utilizzo e cura dell'orologio, e conservate poi il manuale stesso per ogni futura eventuale necessaria referenza.

Você poderá sentir-se orgulhoso de ter adquirido um Relógio SEIKO Digital Cal. M516, dotado de uma função memória da voz para satisfazer as extigências da sociedade atual orientada pela informação. Para o seu uso correto e cuidado,, leia com atenção as instruções contidas neste opúsculo e guarde-o junto de si para consultas posteriores.

閣下擁有機件編號為M516款式的精工數字石英錶，足以使您感到自豪。因為它具有一種記憶語音的機能，可以用來應付目前隨時應該保有正確參考資料的社會活動。務請細心閱讀這本小冊子中有關這種款式手錶使用和保護方法的說明，並請保存這本小冊子，以便隨時參考。

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VOICE RECORDER

ENGLISH

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SEIKO LC DIGITAL QUARTZ VOICE RECORDER

Cal. M516

is a watch provided with an originally designed characteristic function, which makes it possible to record or play back your own voice wherever and whenever you want to recall desired information. This newly designed function is now systemized in this M516 with a usual alarm and chronograph functions.

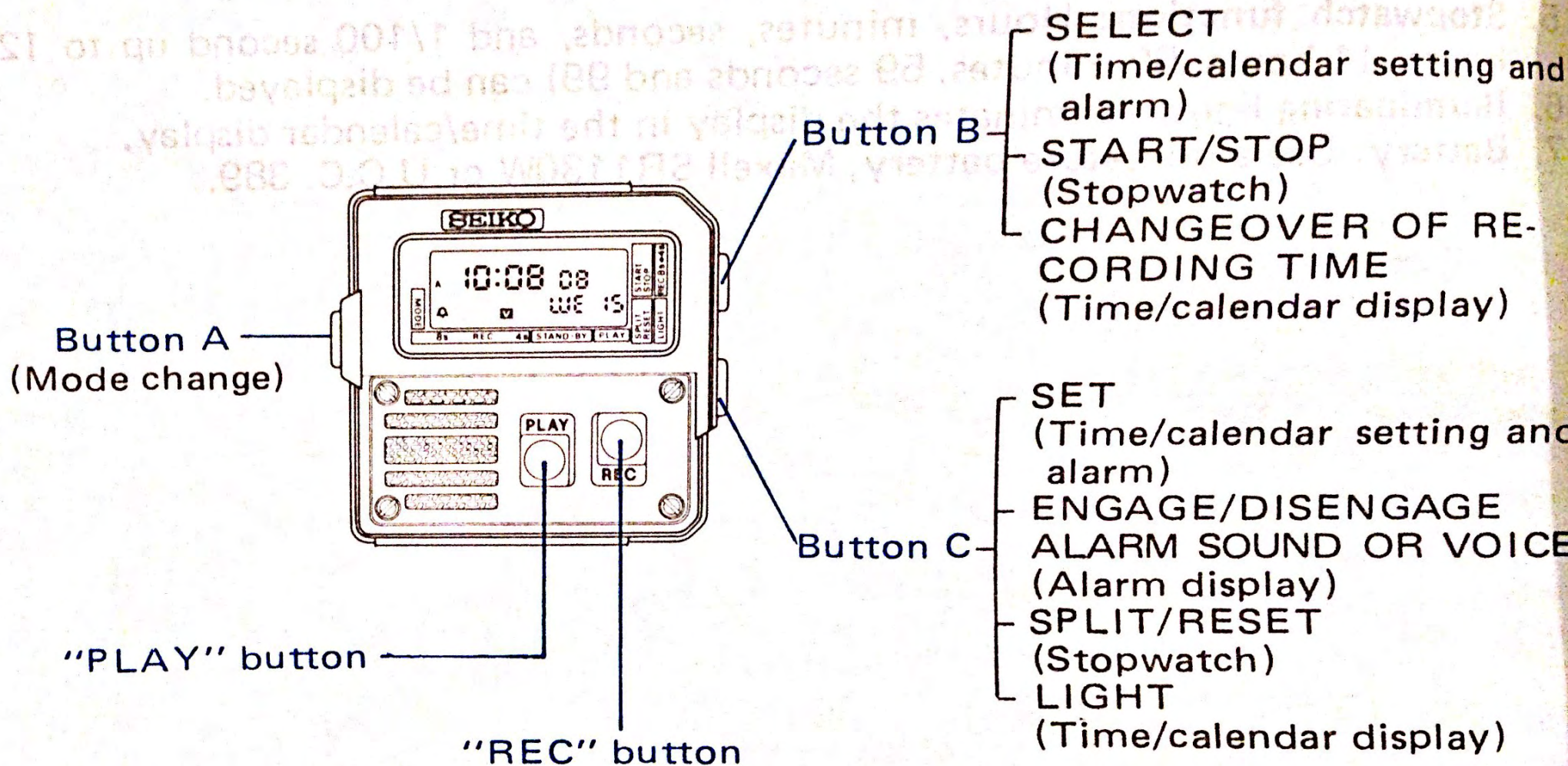
CHARACTERISTICS

- 1. Voice memory function:** By operating the recording and play back buttons, it can record and play back the message for either four or eight seconds from any display.
- 2. Time and calendar function:** Hours, minutes, seconds in 12- or 24-hour indication, "A" (A.M.)/"P" (P.M.), date and day of the week are displayed. The month is displayed only when the calendar is adjusted. The calendar automatically adjusts for odd and even months except for February of leap years.
- 3. Alarm function:** Can select either alarm sound or voice alarm. The alarm can be set to ring at any desired hour and minute. The alarm will ring for 20 seconds and the voice alarm will repeat the recorded message. The alarm can be tested in the time/calendar display.
- 4. Hourly time signal:** The time signal can be set to ring every hour on the hour with a single peep.

- 5. **Stopwatch function:** Hours, minutes, seconds, and 1/100 second up to 12 hours (11 hours, 59 minutes, 59 seconds and 99) can be displayed.
- 6. **Illuminating light:** Illuminates the display in the time/calendar display.
- 7. **Battery:** Use a miniature battery, Maxell SR1130W or U.C.C. 389.



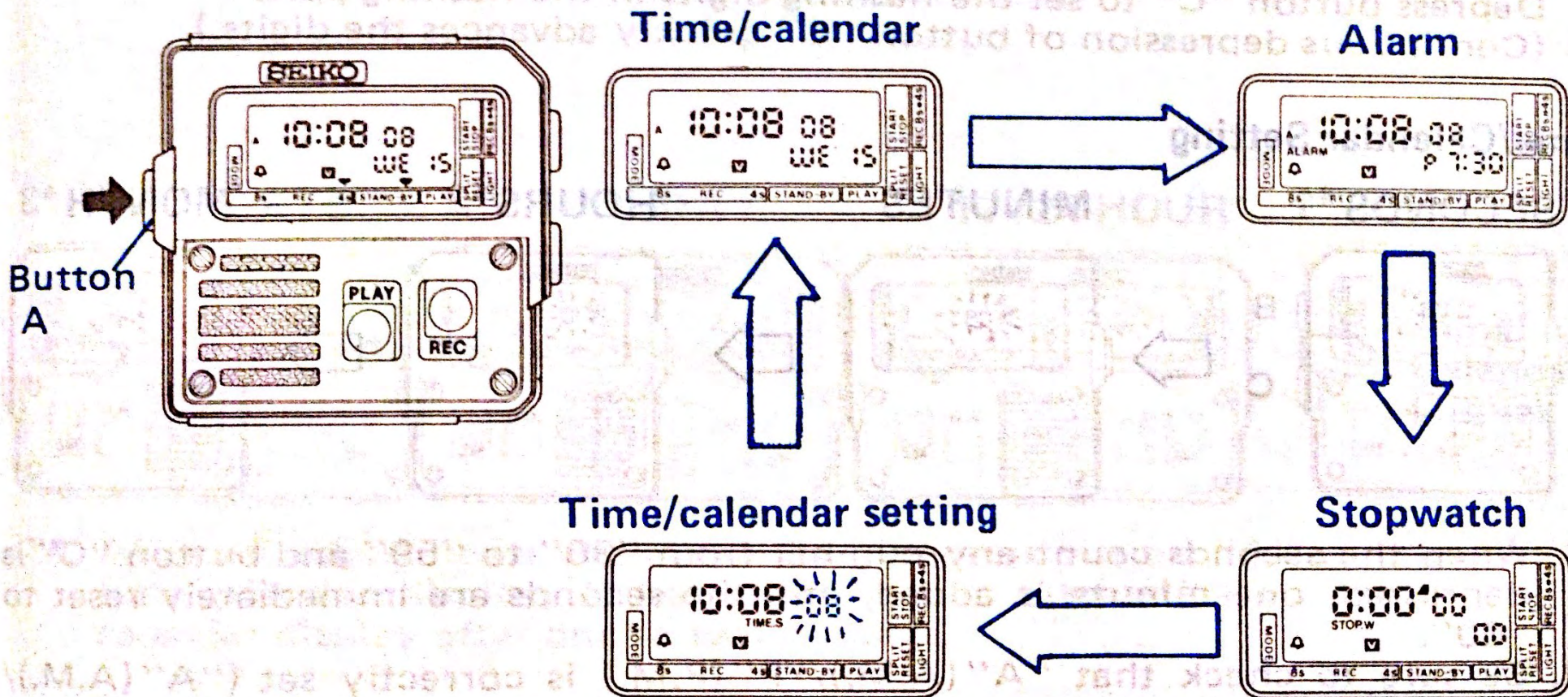
DISPLAY AND BUTTON OPERATION



• Buttons B & C: In time/calendar display, ENGAGE/DISENGAGE the hourly time signal, and ALARM TEST.

HOW TO CHANGE MODE

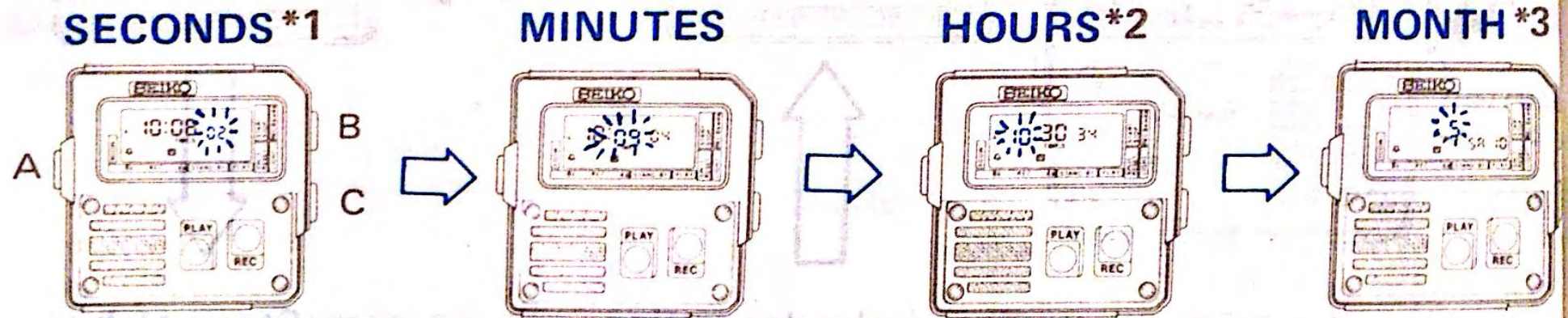
The display will change in the following order by each depression of button "A".



HOW TO SET THE TIME AND CALENDAR

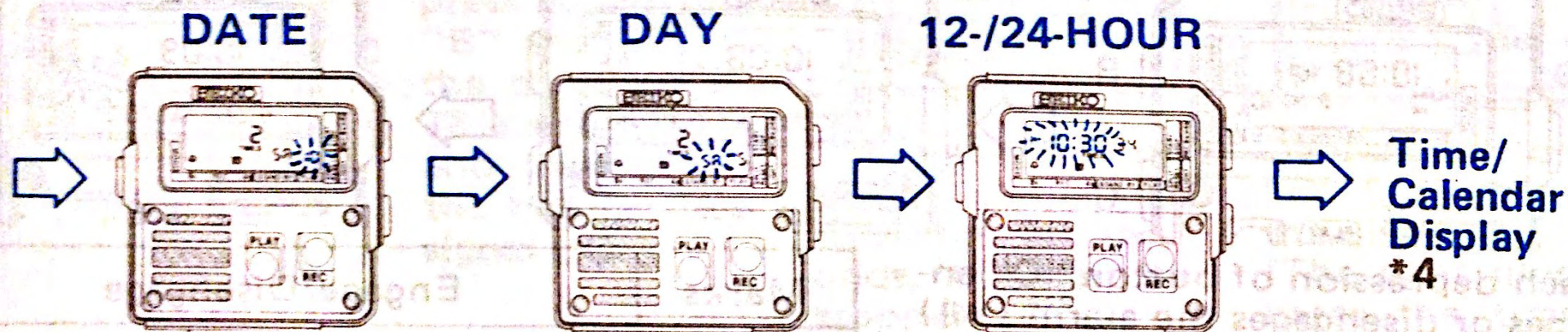
1. Depress button "A" to reach the time/calendar setting function and the second digits start flashing.
2. Depress button "B" to change the flashing part (digits) to be selected as illustrated below.
3. Depress button "C" to set the flashing digits in the flashing part.
(Continuous depression of button "C" quickly advances the digits.)

Time/Calendar Setting



- * 1. When the seconds count any number from "30" to "59" and button "C" is depressed, one minute is added, and the seconds are immediately reset to "00".
- * 2. Be sure to check that "A" (A.M.)/"P" (P.M.) is correctly set ("A" (A.M.)/"P" (P.M.) marks are displayed only in the 12-hour indication).
- * 3. In the month setting mode, the digits represent the month as follows:

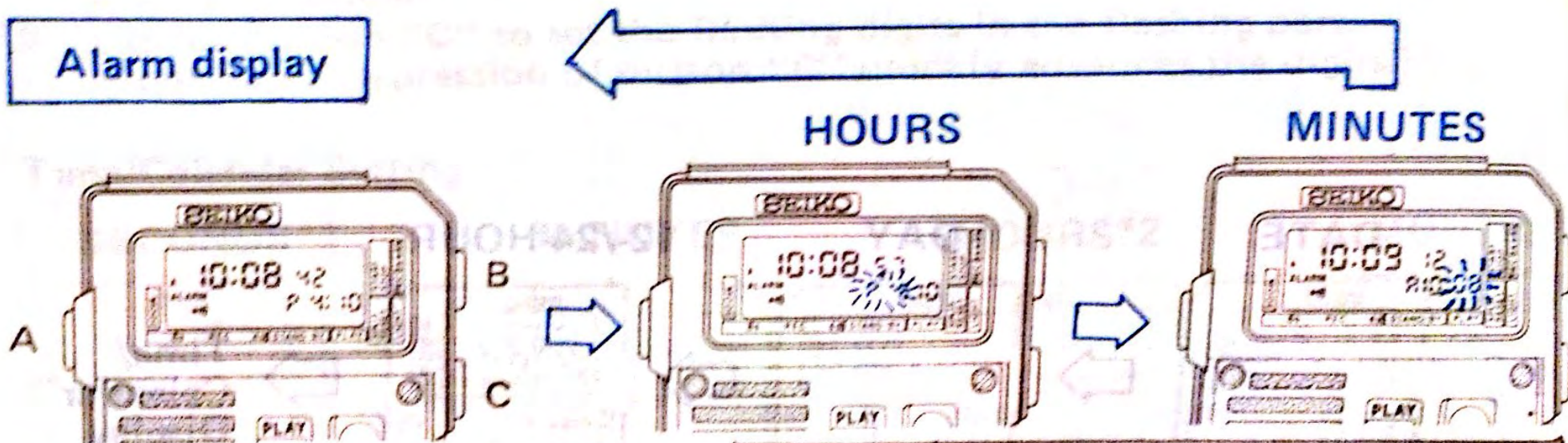
1	2	3	...	10	11	12
Jan.	Feb.	Mar.	...	Oct.	Nov.	Dec.



*4. After all adjustments are completed, depress button "A" to return to the time/calendar display. If not depressed, it automatically returns to time/calendar display after one to two minutes.

HOW TO SET THE ALARM AND CALENDAR

1. Depress button "A" to show the alarm display.
2. Depress button "B" to change to desired time, the flashing hour and minute digits.
3. Depress button "C" to set the desired digits in the flashing part.

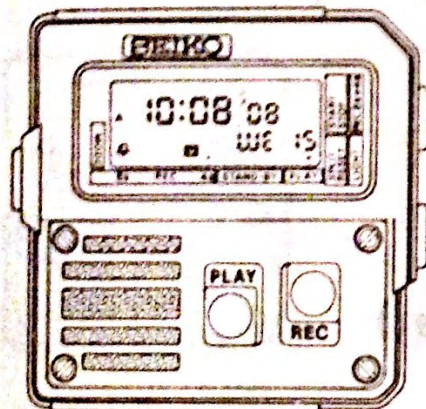


Each depression of button "C" engages or disengages the alarm (■||) and voice alarm (▼) alternately. When the voice alarm (▼) is set, it will ring one time at the appropriate alarm time and the recorded message will be played.

Marks	Engage/Disengage
■	Alarm is engaged.
▼	Voice alarm is engaged.
	Both are disengaged.

* After setting the desired hour and minutes, depress button "B" to return to the alarm display. The display will return to the alarm display automatically after one or two minutes if the buttons are not depressed.

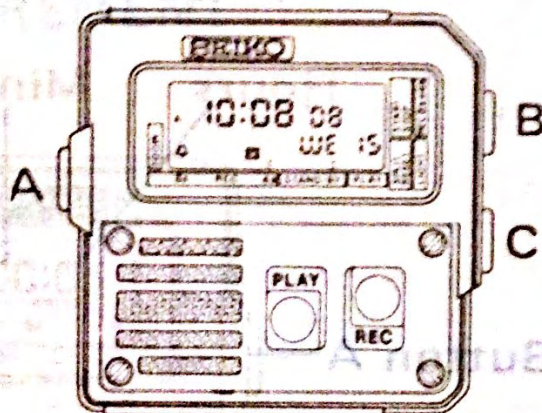
HOW TO ENGAGE AND DIS-ENGAGE THE HOURLY TIME SIGNAL AND ALARM TEST



The alarm can be tested in the time/calendar display by depressing buttons "B" and "C" at the same time. This also engages and disengages the hourly time signal (🔔).

Mark	Hourly time signal
	Disengaged
🔔	Engaged

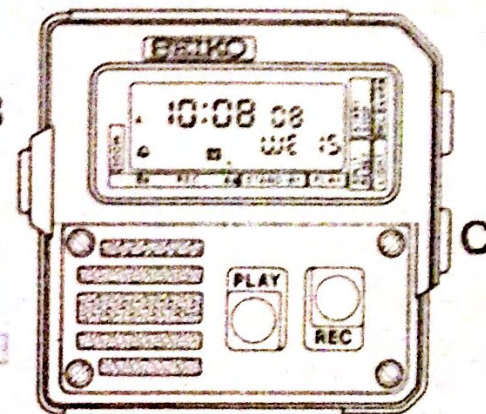
HOW TO STOP THE ALARM



The alarm will ring at the designated time for 20 seconds, but can be stopped by depressing any of the buttons.

The voice alarm can also be stopped before the completion of the message by depressing buttons A, B, C or REC'

ILLUMINATING LIGHT

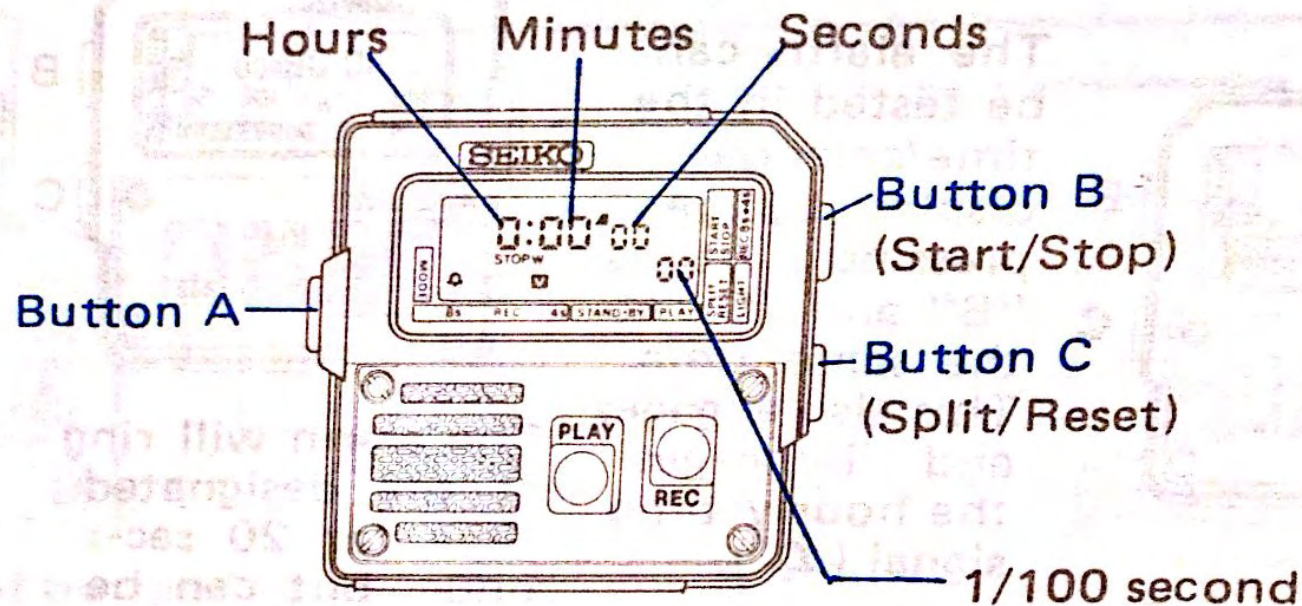


Depress button "C" to illuminate the display. (The light illuminates the time/calendar display only.)

STOPWATCH

Depress button "A" to show stopwatch display.

Display & button operation



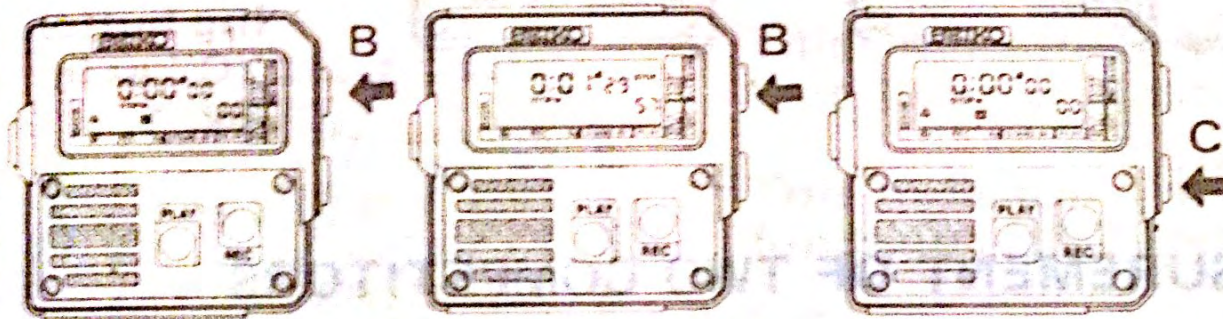
- Before starting, reset to "00" by depressing button "C". If it is already measuring, depress button "B" once to stop the measurement and then depress button "C" once or twice to reset to "00".
- The stopwatch can measure in units of 1/100 second up to 12 hours.
- When using the stopwatch function, the display can be returned immediately to the time/calendar display by depressing button "A", while continuing the measurement.

HOW TO USE THE STOPWATCH

It will start the measuring as illustrated below by depressing the buttons shown by the arrow mark (←).

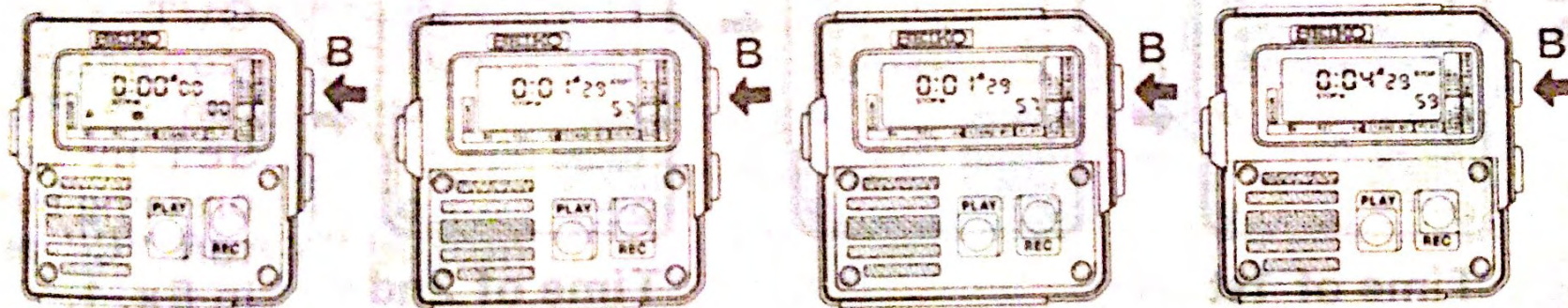
1. STANDARD STOPWATCH MEASUREMENT

START → STOP → RESET



2. ACCUMULATED ELAPSED TIME MEASUREMENT

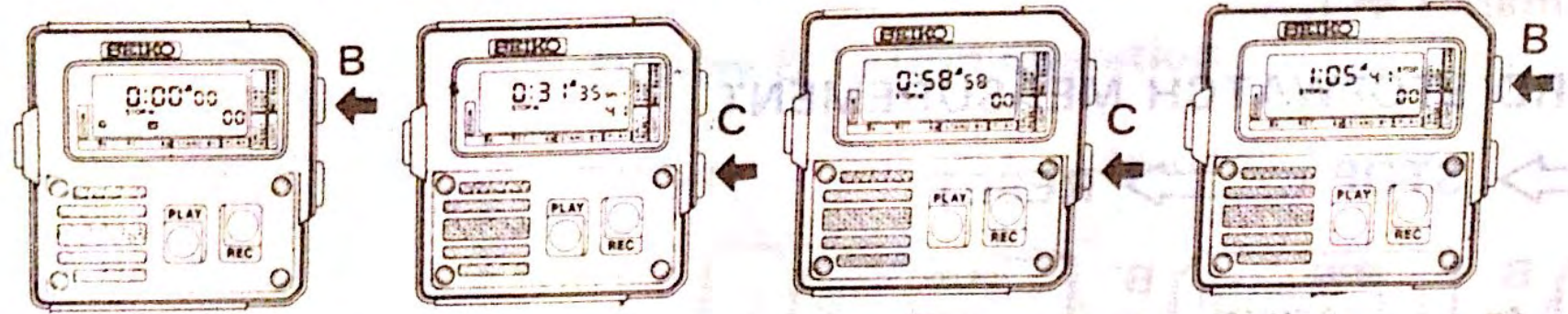
START → STOP → RESTART → STOP → RESET



*After STOP, the stopwatch can be RESET by depressing button "C" as in Ex. 1.

3. SPLIT TIME MEASUREMENT

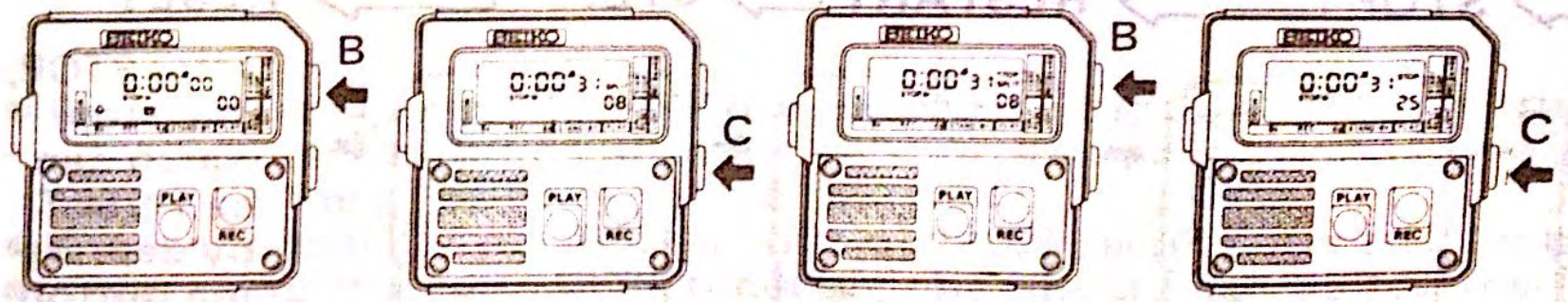
START → SPLIT → SPLIT RELEASE → STOP → RESET



*After STOP the stopwatch can be RESET by depressing button "C" as in Ex. 1.

4. CONTINUOUS TIME MEASUREMENT OF TWO COMPETITORS

START → FINISH (1st competitor) → FINISH (2nd competitor) → READ OUT → RESET



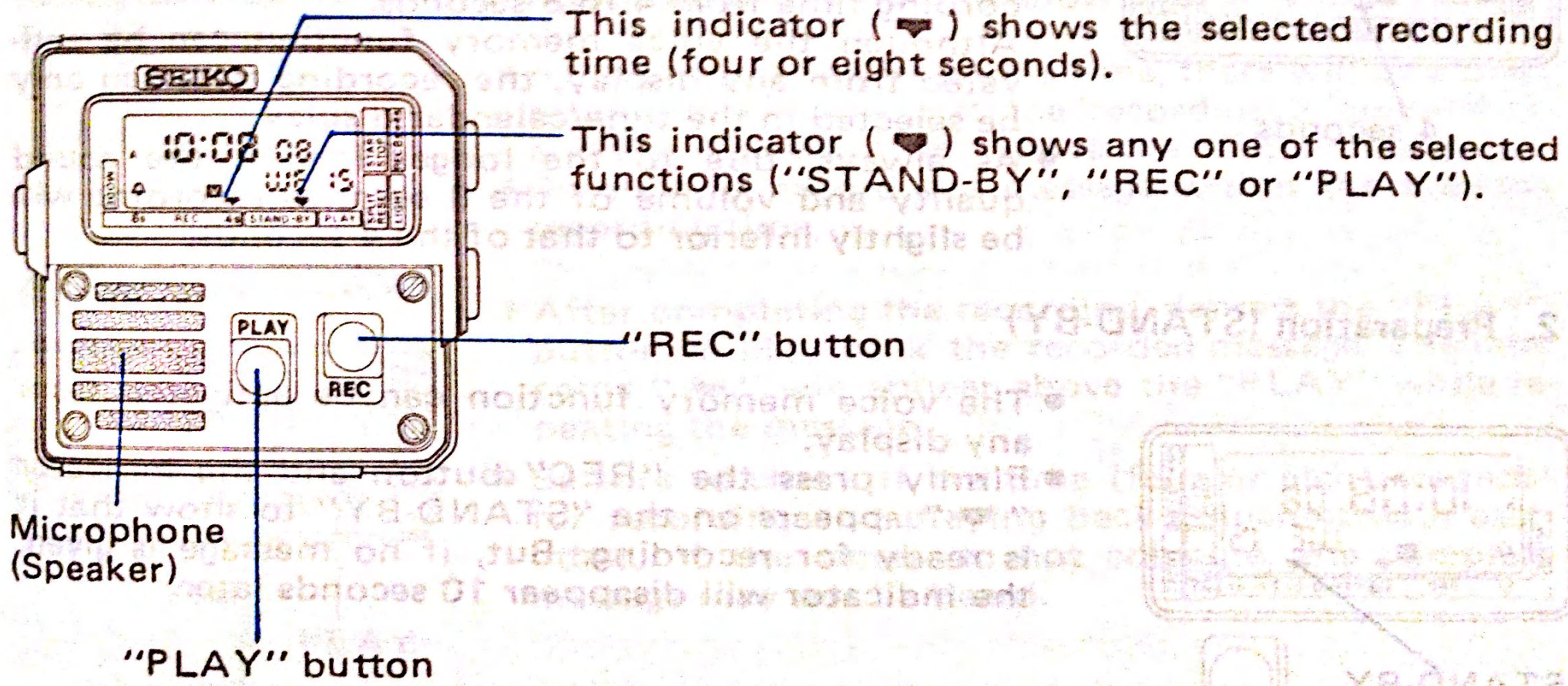
Time of 1st competitor

Time of 2nd competitor

*After READ OUT, the stopwatch can be RESET by depressing button "C" as in Ex. 1.

VOICE MEMORY FUNCTION

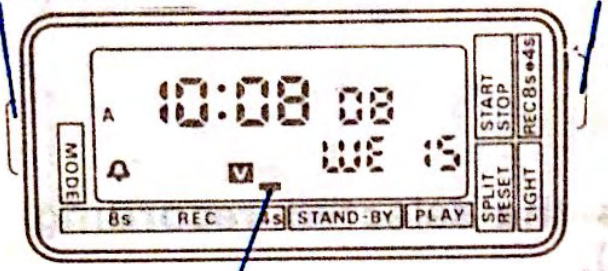
- With the simple operation of the exclusive "REC" and "PLAY" buttons, it is possible to record and play back your own voice wherever and whenever you want to recall desired information. Information can be recalled from any display.



How to use the voice memory

1. Selection of recording time

Button A Button B



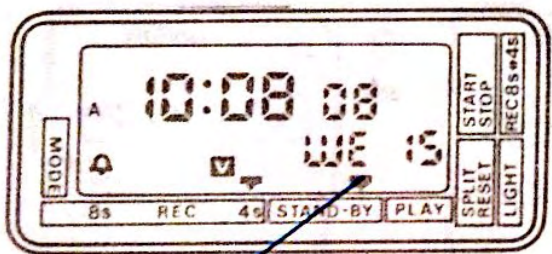
4 seconds

- Depress button "A" to reach the time/calendar display. Then, depress button "B" to select the recording time that will be shown by the indicator "■". Each depression of button "B" will change the recording time from 4 to 8 seconds.

Although the voice memory function can be activated from any display, the recording time can only be selected in the time/calendar display.

- As always, due to the longer length, the sound quality and volume of the 8 seconds recording will be slightly inferior to that of the 4 seconds.

2. Preparation (STAND-BY)

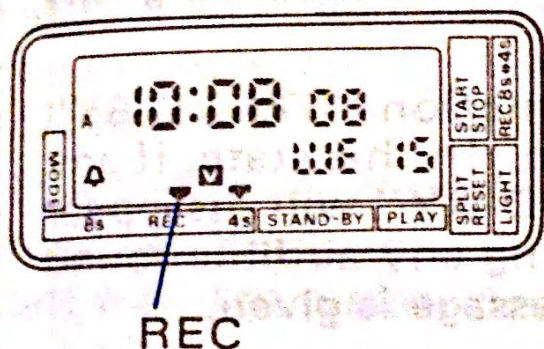





STAND-BY



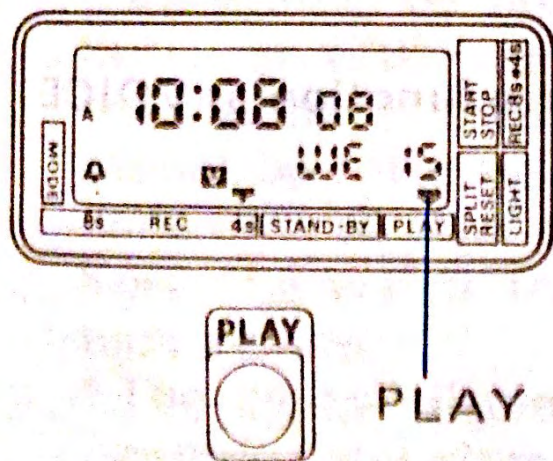
- The voice memory function can be activated from any display.
- Firmly press the "REC" button and the indicator "■" appears on the "STAND-BY" to show that it is ready for recording. But, if no message is given, the indicator will disappear 10 seconds later.


3. Recording (REC)



- (Auto-start function)
The recording process will start when the microphone picks up the first audible sound.
- After having confirmed the indicator "  " appearing on the "STAND-BY", say the message into the microphone (speaker) and it automatically starts to record your voice.
The indicator "  " on "STAND-BY" disappears and reappears on "REC" to show that it is now recording.
- At the end of the recording time, there will be a peep sound to indicate that the recording is completed, and the indicator "  " above the "REC" disappears.
- Be sure to record the message within the selected recording time.

4. Play back (PLAY)



- After completing the recording, depress the "PLAY" button to play back the recorded message. The indicator "  " will appear above the "PLAY" while repeating the message.
- Be sure to check if the time (four or eight seconds) for recording and playing back coincides with each other. If the times do not coincide, the complete message may not be heard.

Remarks:

1. If the "REC" button is depressed erroneously, depress any other button to clear the "STAND-BY" indicator, otherwise it may start recording any sound by chance and clear the recorded memory.
2. If the "REC" button is kept depressed, it stays in the function "STAND-BY" until it picks up an audible sound that can be recorded. In this state, if any message is not given, the indicator "♥" on the "STAND-BY" will disappear 10 seconds later. But, be careful as it may start recording any audible sound if the button is released before 10 seconds even if no message is given.
3. Record the message 2 inches (5cm) from the microphone in a normal speaking tone. If the speaking tone is too low, the message may not be recorded.
4. If the play back voice is distorted, record it again in a lower voice. On the other hand, if it is hard to hear the message, record it again but in a louder voice. Always be sure to record your message about 2 inches (5cm) from the microphone as stated above.
5. The recorded message can be synchronized with the alarm function as **VOICE ALARM**' (see "HOW TO SET THE ALARM")

TO PRESERVE THE QUALITY OF YOUR WATCH

Your watch contains a highly precise electronic circuit and crystal oscillator and to maintain its high accuracy, you should not subject it to violent shocks or extreme temperature. Your watch is not water resistant and care should be taken not to get it wet.

If water or perspiration gets into the microphone (speaker), the alarm sound may get lower or it may become hard to record and play back the message. If left wet, the water may damage the module.

■ TEMPERATURES

Your watch is preadjusted to enable it to function with stable accuracy when worn at a normal temperature range.

● Extremely high temperatures

Care should be taken not to expose the watch to a high temperature over 80°C, or 170°F as the display may become disordered and the contents of the display or memory may be changed or erased. If this happens, the watch should be returned to normal temperature. Then depress the buttons at the same time to clear the display and reset the correct time and memory.

Keep the watch from direct sunlight or hot places. If the watch is kept in such a place;

* The digital display may become black, but this condition will disappear without any aftereffect when temperature returns to normal.

* It may cause an electrolyte leakage or shorten the battery life.

- **Extremely low temperatures**

Do not leave the watch in a cold place for a long time. If the watch is left in such a place for a long time;

- * A time loss/gain may occur.

- * The change of the digits may become slow.

- * The alarm may ring lower.

- * The display may become dim, when the illuminating light is lit.

In all the above cases, the watch will perform properly when the temperature returns to normal.

- **SHOCKS**

There will be no damage caused to the watch by light sports activities. But, be careful not to drop the watch or hit it against anything hard.

- **MAGNETISM**

Your watch will not be affected by magnetism.

- **CHEMICALS**

Be careful not to expose the watch to chemicals and gases. Otherwise, the case bracelet, dial, etc. may be damaged or discolored.

- **PERIODIC CHECK**

It is recommended that the watch be checked at the time of the battery replacement or once every 2 to 3 years. Have your watch checked by an AUTHORIZED SEIKO DEALER or SERVICE CENTER to ensure that the case, buttons, crown, gasket, and crystal seal remain intact.

BATTERY CHANGE

The miniature battery (Maxell SR1130W, U.C.C. 389) which powers your watch should last approximately two years. However, because it is inserted at the factory, the actual life of the battery once in your possession may be less than the specified period. When the life of the battery comes to its end and the battery is replaced, the recorded message will be cleared. Be sure to replace the battery as soon as possible to prevent any possible malfunction. When replacing the battery, we recommend that you contact an **AUTHORIZED SEIKO DEALER**.

Note: If use of the light is more than 2 seconds a day, and/or the alarm more than 10 seconds a day, the battery life may be less than the specified period.