

SEIKO DATA 2000

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Cal. UW01

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You are now the proud owner of a SEIKO Digital Watch DATA-2000. Please read the instructions in this booklet carefully for the proper use and care of this product. Please keep this manual for ready reference.

Toutes nos félicitations pour votre acquisition de la montre numérique SEIKO DATA-2000. Veuillez lire attentivement ce mode d'emploi, rédigé afin de vous expliquer comment utiliser et prendre soin de cette montre. Veuillez conserver cette brochure pour toute référence ultérieure.

Puede sentirse orgulloso de poseer un reloj digital SEIKO DATA-2000. Lea detenidamente las instrucciones de este foleto para usar y cuidar apropiadamente este producto. Conserve el manual para referencia.

Sie sind nun stolzer Besitzer einer SEIKO Digitaluhr DATA-2000. Zum richtigen Gebrauch und zur richtigen Pflege Ihrer Uhr lesen Sie bitte die Anleitungen in dieser Broschüre sorgfältig durch. Heben Sie dieses Heftchen auf, damit Sie sich bei Bedarf immer wieder neu informieren können.

Siete ora in possesso dell'orologio SEIKO digitale DATA-2000. Leggete attentamente questo manuale di istruzioni per il corretto uso ed una opportuna manutenzione di questo orologio. Conservate poi il manuale per ogni eventuale futuro riferimento.

Você poderá sentir-se orgulhoso de ter adquirido um Relógio Digital SEIKO DATA-2000. Para seu uso e cuidado adequados, leia com atenção as instruções contidas neste opúsculo. Guarde este manual para referências futuras.

閣下現已擁有精工數字石英鍵盤式精密錶DATA-2000號，足以感到自豪。請仔細閱讀本小冊子中，有關這項產品的適當使用方法和注意事項，並請妥善保存，以備日後隨時參考。

SEIKO DIGITAL QUARTZ CHRONOGRAPH WITH KEYBOARD (WITH MEMO DISPLAY AND CALCULATOR FUNCTIONS)

DATA-2000

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CHARACTERISTICS

- 1. Time and calendar function:** Hour, minute, seconds, month, date, and day of the week are displayed in the 12-hour indication. The calendar automatically adjusts for odd and even months except February of leap years.
 - 2. Alarm function:** The alarm can be set to ring at the designated time (hour and minute) every day. The alarm function displays hours, minutes, seconds, and 1/100 second are displayed up to 10 hours. The split time is displayed in the upper row, and the total or accumulated elapsed time in the lower row.
 - 3. Stopwatch function:** The stopwatch function displays hours, minutes, seconds, and 1/100 second are displayed up to 10 hours. The split time is displayed in the upper row, and the total or accumulated elapsed time in the lower row.
 - 4. Dual-memo display function:** The DATA-2000 contains two separate memo areas, Memo A and Memo B, for data input and recall. Each area has a display capacity of 1,000 characters, making a total of 2,000 characters. Data can be input by attaching the watch onto the keyboard.
 - 5. Calculator function:** The four basic arithmetic operations can be performed by connecting the watch to the keyboard. The watch displays a number with up to 8 digits.
 - 6. Hourly time signal:** The time signal can be set to ring every hour on the hour with a single "beep".
- Battery:** Miniature lithium battery, Matsushita BR2325, 1 battery, for the watch, and miniature lithium battery, SEIKO (SEIZAIKEN) CR2016, Maxell CR2016, Sanyo CR2016, or Matsushita BR2016, 1 battery, for the keyboard.

DISPLAY AND BUTTON OPERATION

A INDICATES THE DEPRESSION OF BUTTON "A"

The display changes with each depression of button "A".

Time/Calendar Display



Button A
Button D

Button B
Button C



Time/Calendar Setting



Memo A Display



Memo B Display



Alarm Setting



Stopwatch Display



HOW TO SET THE TIME AND CALENDAR

1. Depress button "A" to activate the time/calendar setting function, and the seconds digits start flashing.
2. Depress button "C" to select the digits to be adjusted, and they start flashing.
3. Depress button "D" to set the digits (flashing).



- *1. When the seconds count any number from "30" to "59" and button "D" is depressed, one minute is added and the seconds are immediately reset to "00".
- *2. The time is displayed in the 12-hour indication. When setting the hour digits, be sure to check that "AM"/"PM" is set correctly.

- *3. In the month setting mode, the digits on the panel represent the months as follows:

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

 The calendar adjusts automatically for odd and even months except February of leap years.
- *4. After all adjustments are completed, depress button "A" to return to the time/calendar display.
- ** If the watch is left untouched in the time/calendar setting function, it will automatically return to the time/calendar display after 9 to 10 minutes.

HOW TO SET THE ALARM

1. Depress button "A" to activate the **alarm setting** function, and the alarm "on" or "off" mark starts flashing.
2. Depress button "C" to select the digits to be adjusted, and they start flashing.
3. Depress button "D" to set the digits (flashing).



- *1. When setting the hour digits, be sure to check that "AM"/"PM" is set correctly.
- *2. When the setting is over, depress button "A" to return to the **time/calendar display**. If the watch is left untouched in the **alarm setting** function, it will automatically return to the **time/calendar display** after 9 to 10 minutes.

Note:

When the watch is connected with the keyboard, the alarm does not ring even if it is engaged.

ALARM TEST, AND HOW TO ENGAGE AND DISENGAGE THE HOURLY TIME SIGNAL

In the **time/calendar display**, depressing buttons "C" and "D" at the same time alternately engages and disengages both the hourly time signal and the "beep" sound made by operating any one of the buttons in each mode:

Time signal mark	Hourly time signal	Button operation sound in each mode
⌚	Engaged	Beep
⌚	Disengaged	Beep

The alarm can be tested with a beeping sound by keeping buttons "C" and "D" depressed in the **time/calendar display**. (In this case, the hourly time signal is engaged and disengaged alternately.)

HOW TO STOP THE ALARM



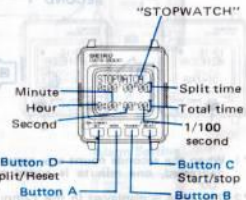
The alarm will ring at the designated time for 20 seconds. It can be stopped manually by depressing any one of the buttons "A", "B", "C", and "D". The display is not affected by stopping the alarm.

STOPWATCH FUNCTION

Depress button "A" to show the **stopwatch display**, and the word "STOPWATCH" is displayed.

Up to 10 hours can be measured in 1/100 second. Split time is displayed in the upper row and total or accumulated elapsed time in the lower row.

• Before use, be sure to depress button "D" to reset the digits to "0:00'00"00".



* If button "A" (mode change) is depressed while using the stopwatch function, the display changes to the **time/calendar display**, the stopwatch measurement stops, and the digits are reset to "0:00'00"00".

HOW TO USE THE STOPWATCH

1. STANDARD STOPWATCH MEASUREMENT

START → STOP → RESET



2. ACCUMULATED ELAPSED TIME MEASUREMENT

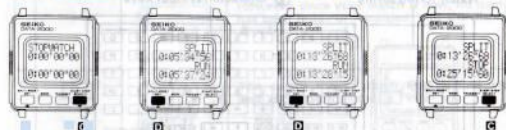
START → STOP → RESTART → STOP*



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

3. SPLIT TIME MEASUREMENT

START → SPLIT TIME 1 → SPLIT TIME 2 → STOP*

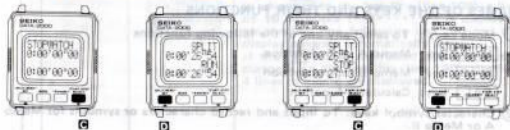


* After SPLIT, the stopwatch can be RESET by depressing button "D" as in Ex. 1.

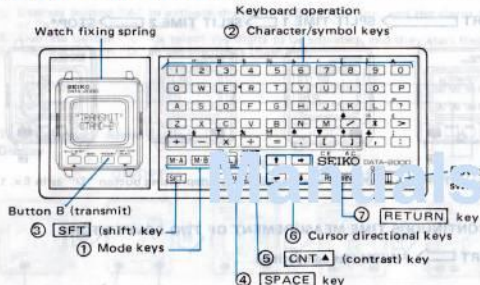
4. CONTINUOUS TIME MEASUREMENT OF TWO COMPETITORS

START → FINISH (1st competitor)

→ FINISH (2nd competitor) → RESET



HOW TO USE THE KEYBOARD



NAMES OF THE KEYS AND THEIR FUNCTIONS

- ① Mode keys :** To select any one of the following functions

 - M-A** key: Memo A input function
 - M-B** key: Memo B input function
 - CAL** key: Calculator function
- ② Character/symbol keys:** To input and record characters or symbols for Memo A or Memo B.

- ③ SFT (shift) key:** While depressing the **SFT** (shift) key, depress character/symbol keys to enter the alphabet characters in small letters and the symbols in the upper left corner of the respective keys (Memo A/Memo B only).
- ④ SPACE** key: A blank (space) is entered with each depression of this key.
- ⑤ CNT** (contrast) key: Use this key to control liquid crystal panel's contrast. Before using this key, depress button "B" of the watch to check that the words "TRANSMIT" STAND-BY are shown. The contrast increases with each depression of the key, and decreases with each depression of the key while keeping the **SFT** key depressed.
- ⑥ Cursor directional keys:** Move the cursor by depressing the 4 directional keys (**↑**, **→**, **←**, and **↓**) to select the memo input space.
- ⑦ RETURN** key: To start a new line.

DO NOT USE THE WATCH OR THE KEYBOARD

1. Place the watch on the "TRANSMISSION CIRCUIT" of the keyboard and press the watch down lightly until it snaps into the keyboard.
2. Depress button "B" of the watch, and the watch becomes ready for receiving data as a display device. The words "TRANSMIT" STAND-BY appear.

 - * When the watch is not set in position to the keyboard, the display will automatically return to the time/calendar display after 9 to 10 minutes.
3. Turn the keyboard's power switch "on".






 - * The keyboard cannot be used independently, but only in conjunction with the watch when connected to it.





HOW TO INPUT AND RECORD DATA
















The memo function is divided into two areas: Memo A and Memo B each functioning independently. Each area has a capacity of 1,000 characters (10 characters x 100 lines), for a total capacity of 2,000 characters. The liquid crystal panel of the watch displays 4 lines of characters at a time.









■ Memo A or Memo B

After attaching the watch onto the keyboard, follow the procedures below.

	Key operation	Display	Remarks
1			Depress button "B" of the watch, and "TRM MITT" "STAN-BY" is displayed on the LCD.
2	M-A or M-B	Cursor 	Depress the M-A key to activate the Memo A input function or depress the M-B key to activate the Memo B input function. The cursor " " flashes.
3	↓ or RETURN or ↑	 	Depress the ↓ or RETURN key, and the first 4 lines of the memo area are displayed. If the ↑ key is depressed, the last 4 lines (lines 97~100) are displayed.

	Key operation	Display	Remarks
			However, since your watch is new, no memo has been input or recorded, and the display appears blank.
4	↓	  	The cursor moves down line by line with each depression of the ↓ key. Depress the ↓ key again when the cursor is at the bottom of the display panel, and the display moves upward and a new line appears at the bottom. The display is advanced by 4 lines by keeping the ↓ key depressed. When the display is advanced to the last line (line 100), a line of 10 asterisks (*****) is displayed on the last line following line 100 and the display advance automatically stops. If the ↓ key is depressed again when the cursor is on the last line (line 100), the first 4 lines of memo are displayed.

	Key operation	Display	Remarks
5			Depress the  key when the cursor is on the top line, and the display changes in the opposite direction to the  key.
			By keeping the  key depressed the display changes by 4 lines until a line of 10 asterisks is displayed following the first line.
	 		Move the cursor with a space on the  or  key in the direction indicated by the respective arrows. When the cursor moves to the extreme right or left position of a line, it automatically goes to the next line.
6	Character/ symbol key		Depress the  ,  ,  , or  key, and the cursor moves in the direction indicated by the respective arrows. Move the cursor to select the memo input space where the character/symbol is to be entered. How to input and record data Depress the character/symbol key, and the character/symbol is input and recorded at that space where the cursor is located.

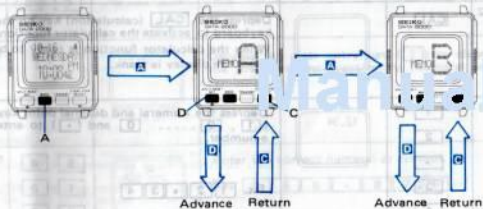
	Key operation	Display	Remarks
			<ul style="list-style-type: none"> To enter the alphabet characters in small letters or to enter the symbols in the upper left corner of their respective keys, depress the keys while keeping the [SFT] (shift) key depressed. To enter a blank (space), depress the [SPACE] key. To start a new line, depress the [RETURN] key.
7	 or  or  or  Character/ symbol key	 	How to correct the input character/symbol 1. Move the cursor to the character/symbol to be corrected. 2. Depress the correct key. To clear data that is no longer needed, move the cursor to where the character/symbol is located and depress the [SPACE] key over it. Also, entering new data where other information exists will automatically erase the previously recorded information.
8	 B		After the data input is completed, depress button "B" of the watch. The display returns to the time/calendar display, and data reception from the keyboard is over. Turn the keyboard's power switch "off", and then remove the watch from the keyboard.

HOW TO DISPLAY MEMO A AND MEMO B

Time/Calendar Display

Memo A Display

Memo B Display



1. Depress button "A" once or twice to show the Memo A or Memo B display respectively. The words "MEMO A" or "MEMO B" appear.
2. When "MEMO A" or "MEMO B" is shown, depress button "C" or "D" to select the desired part of memo to be displayed.

Depress button "D": The first 4 lines of the memo are displayed. The memo display is advanced by one line with each depression of button "C". It is advanced quickly by 4 lines at a time while continuously depressing button "C". When the memo is advanced to the last, and the quick advance stops with the confirmation sound when the button operation sound is engaged (see page 4). At this time, lines 98 to 100 are displayed. Depress button "D" again, and the first 4 lines of the memo are displayed.

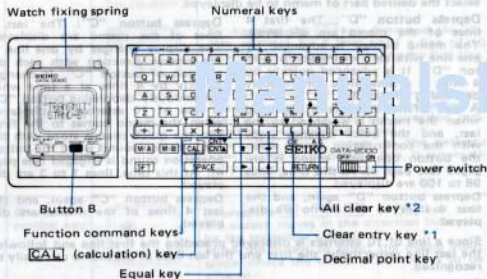
Depress button "C": The last 4 lines of the memo are displayed. The display changes by one line in the reverse direction with each depression of button "C". It changes quickly by 4 lines at a time while continuously depressing button "C". A line of 10 asterisks is displayed when the memo comes to the first, and the quick change stops with the confirmation sound when the button operation sound is engaged (see page 4). At this time, lines 1 to 3 are displayed. Depress button "C" again, and the last 4 lines of the memo are displayed.

Since a line of 10 asterisks is displayed preceding the first line and following the last line respectively, the first and the last lines of the memo can easily be recognized.

3. Depress button "A" to return to the time/calendar display.












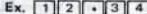







HOW TO USE THE CALCULATOR FUNCTION

1. Before using the calculator function, connect the watch to the keyboard. (To set it, see "HOW TO SET THE WATCH TO THE KEYBOARD" on page 6.)
2. Depress button "B" of the watch to display "TRANSMIT STAND-BY".
3. Turn the keyboard's power switch "on".







*1. Use the  key for clearing the last entry (CE key).




*2. Use the  key for clearing all entries (AC key).

Key operation	Display	Remarks
		Depress button "B" of the watch.
		Depress the  (calculation) key on the keyboard to activate the calculator function. When the calculator function is ready to be used, the display is blank.
		Depress the numeral and decimal point keys ( ,   and ) to enter a number. Ex. 
		Depress the function command keys ( ,  ,  , and ) to enter the desired operation symbol. Ex. 

	Key operation	Display	Remarks
5			Depress the numeral and decimal point keys (1, 2, ..., 0, and \cdot) to enter the second number. Ex.
6			Depress the clear entry key (CE) to clear the previous incorrect entry (numeral or symbol).
7			Enter the correct numeral or symbol. Ex.
8			Depress the equal key (=) to obtain the result.

	Key operation	Display	Remarks
9			After depressing the equal key, the calculator is ready again for entering the numerals of the next calculation. Depress the clear entry (CE) or all clear (AC) key, and the whole display disappears. Repeat steps 3 through 9.
			<ul style="list-style-type: none"> • Calculation example Depress the following keys in the sequence shown, and another calculation is performed.
			$5 \times 6 \div 2 + 9 - 8 = 16$ Key operation

Key operation	Display	Remarks
10		<p>• Overflow error – When "ERROR" is displayed</p> <p>When the result of a calculation exceeds 8 digits, an approximate number is displayed together with the error indicator "....ERROR".</p> <p>Ex. $12.34 \times 56789102 = 7.0077751$</p> <p>* In this case, the decimal point represents the position of a hundred million, and the result at the right is 10,177,500.</p>
 CE		<p>• Calculation examples when the "ERROR" indicator is shown</p> <p>Depress the clear entry () key to clear only the "ERROR" indicator. Approximate calculations can then be made successively by moving the decimal point as follows:</p> <p>* For example, when adding or subtracting a new number such as "4,567,890" to/from "7.0077751", enter into the calculator "0.0456789" (instead of 4,567,890) so that an approximate result may be obtained.</p> <p>Ex. $7.0077751 + 0.0456789 = 7.053454$</p> <p>The approximate result is 705,345,400. (Move the decimal point 8 places to the left.)</p>

Key operation	Display	Remarks
		<p>* When multiplying or dividing, enter the figures as they are, and the approximate results are obtained.</p> <p>Ex. $7.007,751 \times 20 = 140.1555$</p> <p>The approximate result is 14,015,550,000</p>
 B		<p>After calculations are completed and results are obtained, depress button "B" (transmit) of the watch, and the display returns to the time/calendar display. Data reception from the keyboard is over.</p> <p>Turn the keyboard's power switch "off", and then remove the watch from the keyboard.</p>

WATCH BATTERY CHANGE

Note: When the battery runs down, all data in the Memos is erased and the memo display is cleared.

The miniature lithium battery, Matsushita BR2325, which powers your watch should last approximately 1.5 years. However, because the battery in your watch is inserted at the factory, its actual life once in your possession may be less than the specified period.

The seal pasted on the watch case back shows the date that the battery was inserted at the factory, and thus helps to determine when the battery should be replaced. Be sure to replace the battery as indicated to prevent possible malfunction.



Last digit of year Month

(1983) (1, 2, 3, 4, 5, 6, 7, 8, 9, 0, N, D)

When replacing the battery of the watch, we recommend that you contact an **AUTHORIZED SEIKO DEALER or SERVICE CENTER.**

Note: If the alarm is used for more than 20 seconds a day and the button operation sound more than 29 times a day, the battery life may be less than the specified period.

HOW TO REPLACE THE KEYBOARD'S BATTERY

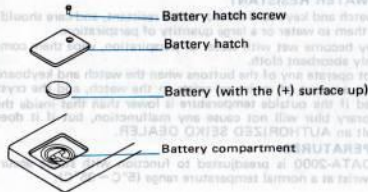
The miniature lithium battery SEIKO (SEIZAIKEN) CR2016, Maxell CR2016, Sanyo CR2016, or Matsushita BR2016 which powers your keyboard should last approximately 5 years. However, because the battery in your keyboard is inserted at the factory, its actual life once in your possession may be less than the specified period.

When it becomes difficult to input and record data with the keys in the normal way, replace the battery as soon as possible to prevent any possible malfunction.

Note: If the keyboard is used for more than 2 hours a day, the battery life may be less than the specified period.

Replace the keyboard's battery in the following sequence.

1. Turn the keyboard's power switch "OFF".
2. Remove the battery hatch screw and the battery hatch in the back.
3. Take out the battery from the battery compartment.
4. Insert a new battery with its (+) side up.
5. After replacing the battery, be sure to slide the keyboard's power switch to "ON" and then to "OFF".



Notes:

1. We recommend that you use "Authorized SEIKO Batteries" as mentioned on page 13.
2. When the battery is removed from the battery compartment, keep it out of the reach of children. If children happen to swallow it, consult a doctor immediately.
3. When handling the battery, do not touch it directly with your hands or do not use metal tweezers to grasp it.
4. Do not dispose of the used battery in a fire.

If the keyboard needs to be repaired, take it along with the watch to an AUTHORIZED SEIKO DEALER or SERVICE CENTER.

TO PRESERVE THE QUALITY OF YOUR WATCH AND KEYBOARD

■ NON-WATER RESISTANT

Your watch and keyboard are not water resistant, and care should be taken not to expose them to water or a large quantity of perspiration.

- If they become wet with water or perspiration, wipe them completely dry with a highly absorbent cloth.
- Do not operate any of the buttons when the watch and keyboard are wet.
- A little amount of moisture exists in the watch, and the crystal may become blurred if the outside temperature is lower than that inside the watch. Such a temporary blur will not cause any malfunction, but if it does not disappear, consult an AUTHORIZED SEIKO DEALER.

■ TEMPERATURES

Your DATA-2000 is preadjusted to function with stable accuracy when worn on the wrist at a normal temperature range (5°C ~ 35°C).

● Extremely high temperatures

Care should be taken not to expose your DATA-2000 to a high temperature over 60°C. Keep it away from direct sunlight or a hot place. If it is left in such a place:

- * The digital display may become black, but this condition will disappear without any aftereffect when the temperature returns to normal.
- * It may cause an electrolyte leakage or shorten the battery life.

● Extremely low temperatures

Do not leave your DATA-2000 in a cold place for a long time. If it is left in such a place for a long time:

- * A small amount of time loss/gain may occur.
 - * The change of the digit may become slow.
- The normal performance of a watch, however, will return when the temperature returns to normal.
- The product works down to -10°C.

■ SHOCKS

Light sports activities will not damage your product. However, be careful not to drop the watch and the keyboard or hit them against any hard surfaces.

■ MAGNETISM

Your watch by itself will not be affected by magnetism. However, it may be adversely affected by magnetism when data is transmitted from the keyboard.

■ CHEMICALS

Be careful not to expose your DATA-2000 to chemicals, solvents such as alcohol and gasoline, or mercury (i.e. from a broken thermometer) since they may damage the product.

■ CARE OF CASE AND BRACELET

Dust and moisture on the case and bracelet may cause rust. Wipe them off with a soft, highly absorbent cloth.

■ TO KEEP THE KEYBOARD IN GOOD CONDITION

Keep dust away from the keyboard. If dust accumulates, wipe it off with a soft, dry cloth.

■ PERIODIC CHECK

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

■ LIQUID CRYSTAL PANEL

When the liquid crystal panel (display part) of the watch is used for more than 7 years, its contrast decreases and it becomes difficult to read characters on the panel.

Have it replaced by an AUTHORIZED SERVICE CENTER.

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QD-1-4

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