

SEIKO
セイコー
ストップウォッチ
取扱説明書
INSTRUCTION

S051・S052

このたびはセイコーストップウォッチS051,S052をお買い上げいただきありがとうございました。
ご使用前にこの取扱説明書をよくお読みのうえ正しくご愛用くださいますようお願い申し上げます。なおこの取扱説明書はお手もとに保存し、必要に応じてご覧ください。

FEATURES

SEIKO Quartz Stopwatches Cal. S051 and S052 feature a lap time/split time memory function that can store and recall up to 100 sets of lap times and split times, in addition to a time/calendar function. Cal. S052 is also equipped with a dual timer function.

- Stopwatch function: It measures up to 100 hours in 1/100 second increments.
- Three separate measurement displays are available; split time, lap time and lap time in progress displays. They can be selected as you require.
- Lap time/split time memory function: Up to 100 sets of lap times and split times are automatically stored in memory.
- Year, month, date, day, hour, minutes and seconds are shown in the TIME/CALENDAR display.
- An antibacterial agent is applied to the case surface of the stopwatches.

※It loses its antibacterial effect gradually over time and the effective period differs depending on the conditions of use.

<Function unique to Cal.S052>

※Cal.S052 stopwatch has "INTERVAL TIMER" inscribed on the front case.

- Dual timer function: Two countdown timers are available, and they can be set to count down different lengths of time. When used together, they count down the set times alternately.
- Both the timers can be set for any desired amount of time from 10 seconds up to 99 hours, 59 minutes and 59 seconds in second increments.
- The warning sound beeps in different tones for each timer so that you can tell which timer is in use.

SPECIFICATIONS

1. Frequency of crystal oscillator 32,768Hz (Hz = Hertz... Cycles per second)
2. Loss/gain (monthly rate) Less than 0.0012 % or 30 seconds at normal temperature range (25°C±3°C)
3. Operational temperature range: -10°C~+60°C
4. Desirable temperature range of use: 0°C~+50°C
5. Display system
TIME/CALENDAR display Day of the week, year, month, date, hour, minutes and seconds.

(The calendar automatically adjusts for odd and even months including February of leap years from January 1, 1999 to December 31, 2048.)

- STOPWATCH display 2 rows of digital displays and a dot matrix display (5 × 35 dots) STOPWATCH display mark, hours, minutes, seconds and 1/100 seconds. (Measures up to 100 hours.)

The stopwatch display can be selected from LAP TIME display that shows the previous lap time, SPLIT TIME display and LAP TIME display that shows the measurement in progress. Up to 100 sets of lap times and split times can be stored in memory.

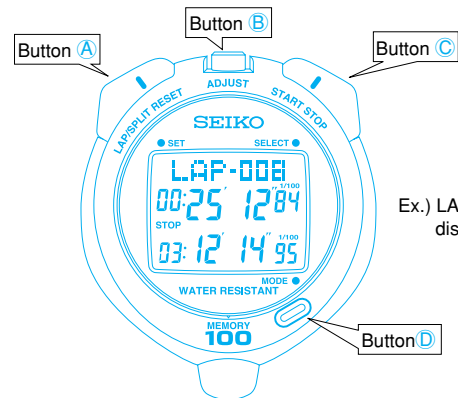
<For Cal. S052>

- TIMER display TIMER 1 / TIMER 2 display.

Hours, minutes, seconds and the number of times the countdown is repeated.

6. Display medium Nematic Liquid Crystal, FEM (Field Effect Mode)
7. Battery Lithium battery SB-T51, 1 piece
8. Battery life Approx. 3 years.
※For Cal.S052, the life of the battery may be less than the specified period if TIMER 1 and 2 are used together more than 5 times a day.
9. IC (Integrated Circuit) C-MOS-LSI, 1 piece
10. Battery life indicator
※The specifications are subject to change without prior notice for product improvement.

BUTTONS AND CHANGEOVER OF DISPLAYS

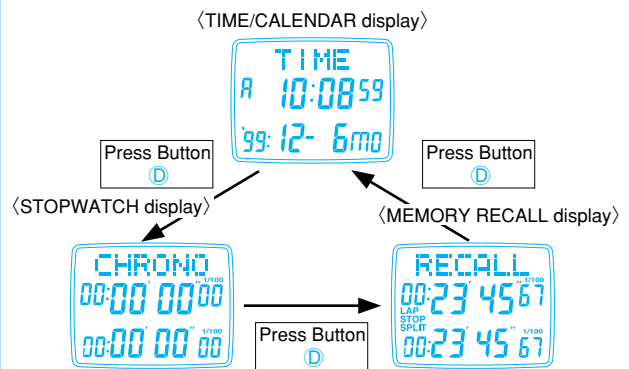


Ex.) LAP TIME display.

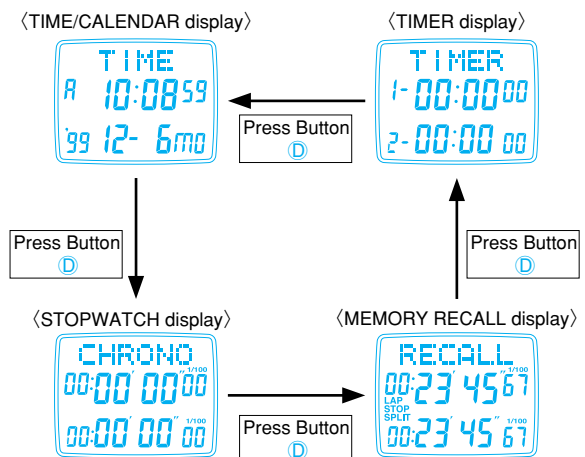
※If buttons A, B, C, and D are pressed at the same time, all the data in memory will be erased.

With each press of button D, the display changes in the following order.

Changeover of displays for Cal. S051



Changeover of displays for Cal. S052



HOW TO USE THE STOPWATCH

① BUTTON OPERATIONS

- Three separate measurement displays are available; split time, lap time and lap time in progress displays.
- When the STOPWATCH display is shown, "CHRONO" is shown on the uppermost dot matrix display, followed by any one of "LAP", "RLP" and "SPL".
- Selection of the measurement displays can be made by pressing button **B**.

Button A

- Lap time/split time measurement in STOPWATCH display.
- Selection of the stored data (from the newest to the oldest data) in the MEMORY RECALL display.

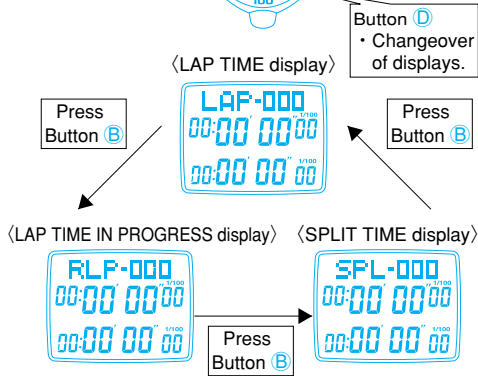
Button B

- Selection among the LAP TIME, LAP TIME IN PROGRESS and SPLIT TIME displays.

Button C

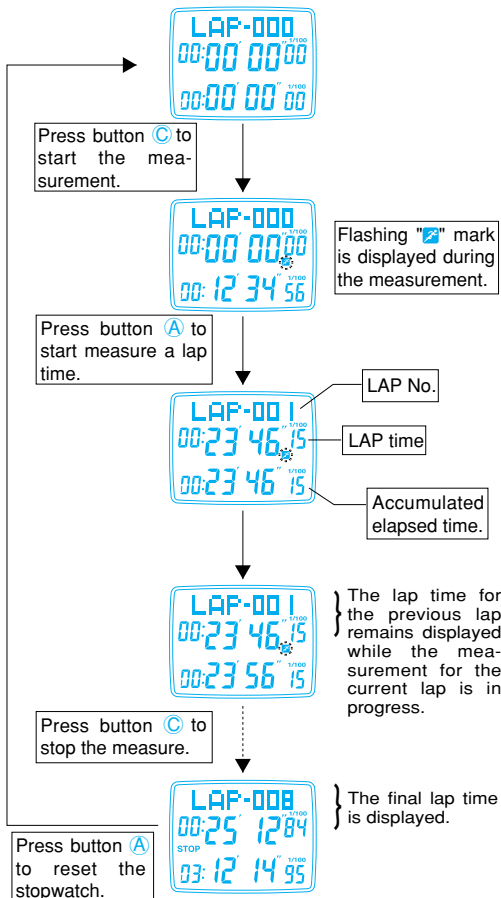
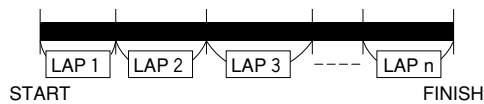
- Start/stop of the measurement in the STOPWATCH display.
- Selection of the stored data (from the oldest to the newest data) in the MEMORY RECALL display.

Ex.) LAP TIME display



③ LAP TIME MEASUREMENT

Lap time measurement ... To measure the time that has elapsed from the start of one stage of an activity to that of the next stage.

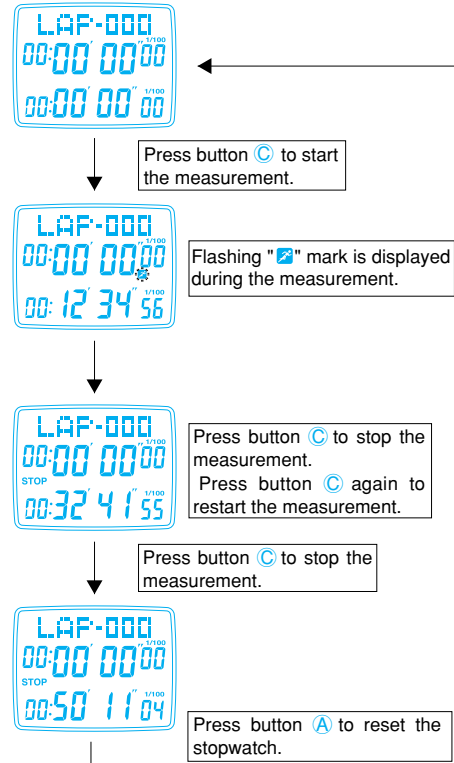


② ACCUMULATED ELAPSED TIME MEASUREMENT

Accumulated elapsed time measurement.

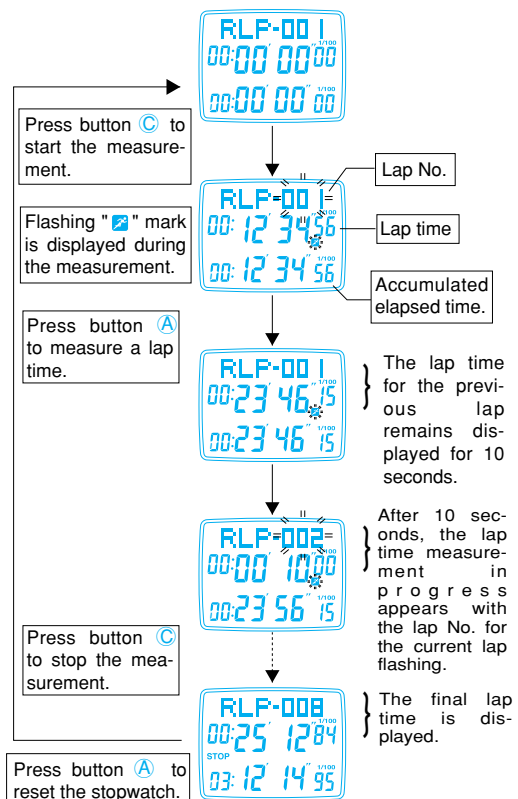
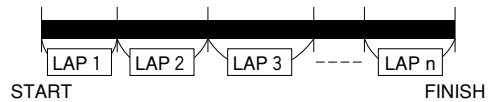


Ex.) Accumulated elapsed time measurement in the LAP TIME display.



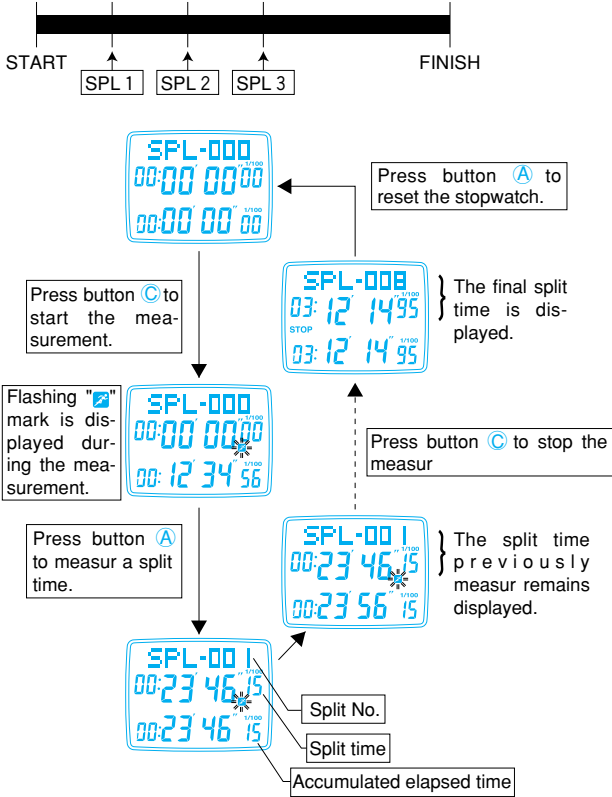
④ LAP TIME IN PROGRESS DISPLAY

Lap time in progress display ... While a lap time is being measured, the measurement in progress is displayed.



⑤ SPLIT TIME MEASUREMENT

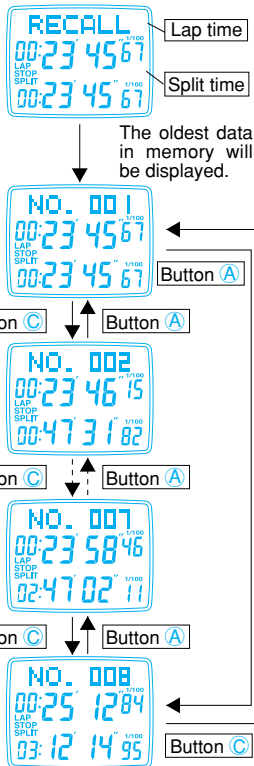
Split time measurement ... To measure the time that has elapsed from the start of an activity to any given stage.



⑥ LAP TIME/SPLIT TIME MEMORY RECALL FUNCTION

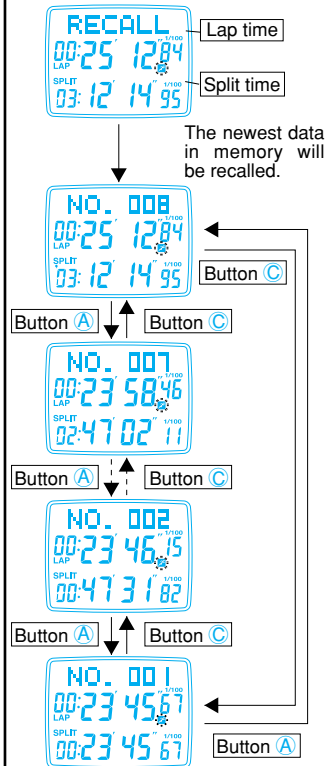
(Memory recall after the measurement)

"STOP" mark is displayed. Press button D for MEMORY RECALL display.



(Memory recall during the measurement)

Flashing "*" mark is displayed. Press button D for MEMORY RECALL display.



※If no lap time/split time measurement is made in the STOPWATCH display and no data is stored in memory, the following display will be shown when display is changed over to the MEMORY RECALL.



※Even if the stopwatch is reset to "00", stored data is not erased and can be recalled unless a new measurement is started.

※The stopwatch can measure the lap time/split time as many times as necessary, but only the first 100 sets of measurements will be stored in memory.

TIMER DISPLAY (FOR CAL.S052)

① BUTTON OPERATIONS

- Two countdown timers are available, and they can be used either separately or in combination. When used together, TIMER 2 starts counting down as soon as TIMER 1 has finished counting down the set time. They count down their respective set times alternately in this way as many times as necessary unless stopped.
- Both the timers can be set for any desired amount of times from 10 seconds up to 99 hours, 59 minutes and 59 seconds in second increments.
- To use the timers separately, set "00:00'00" for the timer you choose not to use. The other timer will count down the set time repeatedly as many times as necessary unless stopped.
- The number of times the timers repeat the countdown can be set from 1 to 100 times. If "---" is set for the number, the timers will repeat the countdown as many times as necessary unless stopped by pressing a button.

Button A

- Resetting the timer to the set time in the TIMER display.
- Setting the countdown time and the number of times the countdown is repeated in the TIMER SETTING display.

Button B

- Activation/deactivation of the TIMER SETTING function.

Button C

- Start/stop of the timer in the TIMER display.
- Selection of the digits to be adjusted in the TIMER SETTING display.

Button D

- Changeover of displays.
- Resetting the countdown time to "00:00'00" and the number of times the countdown is to be repeated to "0" in the TIMER SETTING display.

Number of times the countdown was repeated.

TIMER 1 EX.) Set for 00:03'00"

TIMER 2 EX.) Set for 00:01'00"

Ex.) Operation of the timers when they are set for the times as shown in the illustration above.

TIMER 1 → 3minutes

TIMER 2 → 1minutes

Once

Twice

10Times

② HOW TO SET THE TIMER

Check that the timers are reset.

Press Button B For 2 seconds.

Press button C

Press button C

Press button C

Press button C

Press button C

Press button C

The hour digits of TIMER 1 start flashing. With each press of button A, one hour is advanced.

The minute digits of TIMER 1 start flashing. With each press of button A, one minute is advanced.

The second digits of TIMER 1 start flashing. With each press of button A, one second is advanced.

The digits for the number of times the countdown is to be repeated start flashing. Press button A to set them.

The second digits of TIMER 2 start flashing. With each press of button A, one second is advanced.

The minute digits of TIMER 2 start flashing. With each press of button A, one minute is advanced.

The hour digits of TIMER 2 start flashing. With each press of button A, one hour is advanced.

- The digits for the hour, minutes, seconds and the number of times the countdown is to be repeated advance quickly by keeping button A pressed.
- The timers cannot be set for a time less than 10 seconds. If a time less than 10 seconds is set and button B is pressed to return to the TIMER display, the timers will automatically be set for "00:00'10".
- If button D is pressed while the digits are flashing, both of the timers will be reset to "00:00'00".
- After all the adjustments are completed, press button B to return to the TIMER display.

③ HOW TO USE THE TIMER

EX.) TIMER 1, 2 and the number of times the countdown is to be repeated are set to "00:03'00", "00:01'00" and "10", respectively, as shown in the illustration at left.

Press button C

Press button C to start TIMER 1.

mark flashes during the countdown.

A beep sounds 3 seconds before the set time is up. When the set time is up, a warning sound beeps for 5 seconds.

TIMER 2 starts counting down.

A beep sounds 3 seconds before the set time is up. When the set time is up, a warning sound beeps for 5 seconds. TIMER 1 starts counting down. In this way, both the timers repeat the countdown the number of times you have set.

To stop the warning sound manually, press button A, B, C or D. This will not turn it off completely while the countdown is repeated. It will beep every time the countdown is over thereafter.

The warning sound for TIMERS 1 and 2 are different in tone.

Restart and stop of the timer can be repeated as many times as necessary by pressing button C.

REMARKS ON THE BATTERY

Notes on the battery

(1) Battery life

When a new normal battery is installed, this watch operates for approximately 3 years.

※For Cal.S052, the life of the battery may be less than the specified period if TIMER 1 and 2 are used together more than 5 times a day.


(2) Monitor battery

The battery in your watch may run down in less than three years after the date of purchase, as it is a monitor battery which is inserted at the factory to check the function and performance of the watch.

(3) Battery change

- ① For battery replacement, be sure to have the battery replaced with a new one at the retailer from whom the watch was purchased or an SEIKO DEALER, and request the battery for exclusive use with the SEIKO watches.
- ② If the old battery is left in the watch for a long time, a malfunction may be caused due to battery leakage, etc. Have it replaced with a new one as soon as possible.
- ③ Battery replacement is charged even if it runs down within the guarantee period.

(4) BATTERY LIFE INDICATOR

When all the segments of the display start flashing in the TIME/CALENDAR display, or when "  " mark starts flashing in other displays, the watch may run down in 2 to 3 days. We suggest that you have the battery replaced by a SEIKO DEALER.

※Even though the display is flashing, time accuracy is not affected.

WARNING

1. Do not remove the battery from the watch.
2. If it is necessary to take out the battery, keep it out of the reach of children.
3. If the child swallows it, consult a doctor immediately as it will adversely affect the health of the child.

CAUTION






1. Never short-circuit, tamper with or heat the battery, or never expose it to fire as it may explode, generate and intense heat or catch fire.
2. The battery in your watch is not rechargeable. Never attempt to recharge it, as this may cause battery leakage or damage to the battery.
3. If the watch is left in a temperature below 5°C or above 35°C for a long time, it may cause the battery life to be shortened.

■ TO PRESERVE THE QUALITY OF YOUR WATCH

⚠ CAUTION

● WATER RESISTANCE

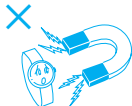
- Do not make button operation when the watch is wet, as water may get inside the watch.

				
Designed and manufactured to withstand the water usually experienced in a daily living such as splashes and rain.	Designed and manufactured for swimming and kitchen work.	Skindiving without scuba.	Genuine diving using scuba or heliugas.	Button operation when the watch is wet.
"WATER RESISTANT" is inscribed on the back of your watch case.	○	×	×	×

⚠ WARNING

- If your watch is 3 bar water resistant, do not use it in water.

● PLACES TO KEEP YOUR WATCH



- If the watch is left in a temperature below -10°C or above +60°C for a long time it may function improperly or stop operating.

※This stopwatch is so adjusted that it will maintain stable time accuracy in normal temperatures. (5°C~35°C)
It will lose or gain slightly, but it will regain high time accuracy when it returns to normal temperature.

- Do not leave the watch in a place where it is subjected to strong magnetism or static electricity.

- Do not leave the watch where there is strong vibration.
- Do not leave the watch in a dusty place.

- Do not expose the watch to gases or chemicals. (Ex.: Organic solvents such as benzene and thinner, gasoline, nail polish, cosmetic spray, detergent, adhesives, mercury, and iodine antiseptic solution.)
- Do not leave the watch in a hot spring, or do not keep it in a drawer having insecticides inside.

⚠ CAUTION

- If your watch is of the fob or pendant type, the strap or chain attached to the watch may damage your clothes, or injure the hand, neck, or other parts of your body.

● PERIODIC CHECK

- We suggest that you have your watch checked by the retailer from whom the watch was purchased every 2 or 3 years or when the battery is replaced for oil condition, battery electrolyte leakage or damage due to water or sweat. After checking the watch, adjustment and repair may be required.

■ REPLACEMENT OF THE LIQUID CRYSTAL PANEL

There will be dim contrast or blur of the digital display after the liquid crystal panel is used for above seven years. Contact the retailer from whom the watch was purchased for replacement in such cases. This is available at the owner's expense.

■ REMARKS ON AFTER-SALES SERVICING

- If the watch requires service, take it to the retailer from whom the watch was purchased. If the trouble occurs within the guarantee period, submit the certificate of guarantee together with the watch.
- For repair after the guarantee period or for any other information regarding the watch, contact the retailer from whom the watch was purchased or SEIKO S-YARD CO., LTD.
- Guarantee coverage is spelled out in the certificate of guarantee. Please read it carefully and keep the certificate for ready reference.

■ REMARKS ON REPLACEMENT PARTS

- SEIKO makes it policy to usually keep a stock of spare parts for its watches for 7 years. In principle, your watch can be reconditioned within this period if used normally. (Replacement parts are those which are essential to maintaining the functional integrity of the watch.)
- The number of years that a watch is considered repairable may vary greatly depending on the conditions under which it was used, and normal accuracy may not be achieved in some cases. We recommend, therefore, that you consult the retailer from whom the watch was purchased when having them repair your watch.
- The case, dial, hands glass and bracelet, or parts there of may be replaced with substitutes if the originals are not available.