

Cal. S651

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You are now the proud owner of a SEIKO Digital Quartz Watch Cal. S651. For best results, please read the instructions in this booklet carefully before using your SEIKO Digital Quartz Watch. Please keep this manual handy for ready reference.

Sie sind jetzt Besitzer einer SEIKO Digital-Quarzuhr Kal. S651. Bitte lesen Sie diese Bedienungsanleitung vor Verwendung der Uhr sorgfältig durch und heben Sie sie gut auf.

Vous voici l'heureux propriétaire d'une montre numérique SEIKO quartz Cal. S651. Pour obtenir d'excellentes performances de cet article SEIKO, veuillez lire attentivement cette brochure que vous conserverez pour toute référence ultérieure.

Siete ora in possesso di un orologio SEIKO digitale al quarzo Cal. S651. Per ottenere i migliori possibili risultati dal Vostro orologio, leggere attentamente le istruzioni di questo manuale prima di utilizzare il Vostro orologio SEIKO digitale al quarzo. Conservare poi il manuale stesso per ogni qualsiasi eventuale futuro riferimento.

Enhorabuena por su adquisición de un reloj SEIKO digital de cuarzo Cal. S651. Para óptimo resultado, lea detenidamente las instrucciones de este folleto antes de usar el reloj. Guarde este manual para consulta posterior.

Você pode sentir-se orgulhoso de possuir um Relógio SEIKO Quartz Digital Cal. S651. Para obter os melhores resultados, leia atentamente as instruções contidas neste opúsculo antes de usar o seu Relógio SEIKO Quartz Digital. Queira conservar este manual para referências futuras.

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SEIKO CAL. S651

TIME/CALENDAR

STOPWATCH

- Measures up to 10 hours in 1/100 second increments.
- **Memory recall function:** Up to 8 lap times can be stored in memory.

TIMER

- **Preset timer function:** Four different lengths of time have been preset.
- **Adjustable timer function:** Can be set for up to 9 hours and 59 minutes in one-minute increments.

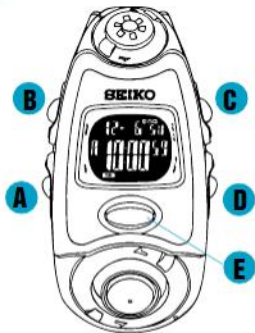
ALARM

AUTO ILLUMINATION FUNCTION

- The display is illuminated for 2 seconds with each press of any of the buttons.
- While the stopwatch or timer is counting, the display is illuminated for 2 seconds every minute to signal the lapse of time.

ILLUMINATING LIGHT (ELECTROLUMINESCENT PANEL)

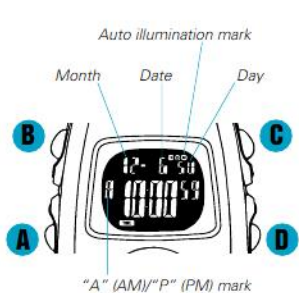
MODE CHANGE



- A** With each press, the mode changes in the following order:



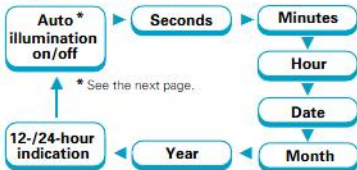
TIME/CALENDAR SETTING



A Press to show TIME/CALENDAR mode.

B Press and hold for 2 to 3 seconds to show TIME/CALENDAR SETTING display.

C Press repeatedly to select the digits (flashing) to be adjusted.



D Press to set the flashing digits.

B Press to return to TIME/CALENDAR mode.

● TURNING ON/OFF OF THE AUTO ILLUMINATION

- ☆ The display is illuminated for 2 seconds with each press of any of the buttons.
- ☆ While the stopwatch or timer is counting, the display is illuminated for 2 seconds every minute to signal the lapse of time.



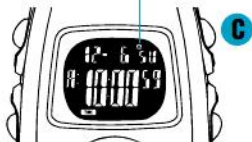
B Press and hold for 2 to 3 seconds in TIME/CALENDAR mode.

▼
D With each press, the auto illumination is alternately turned on and off.

B Press to return to TIME/CALENDAR mode.

● TURNING ON/OFF OF THE HOURLY TIME SIGNAL AND BUTTON OPERATION CONFIRMATION SOUND

Hourly time signal mark

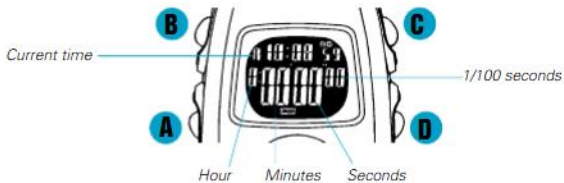


C With each press in TIME/CALENDAR mode, the hourly time signal and button operation confirmation sound are alternately turned on and off.

STOPWATCH

- The stopwatch measures up to 10 hours in 1/100 second increments.
- The first 8 lap times are automatically stored in memory.

- A** Press to show STOPWATCH mode.



STOPWATCH OPERATION

Standard measurement



Accumulated elapsed time measurement



* Restart and stop of the stopwatch can be repeated by pressing button C.

Lap time measurement



* Measurement of lap time can be repeated by pressing button D.

● MEMORY RECALL FUNCTION

The stored data can be recalled either during or after the measurement.

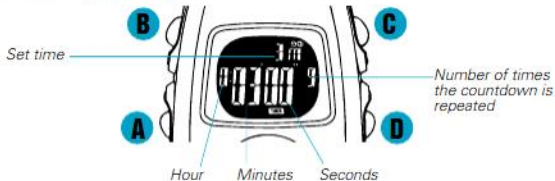


- B** Press to activate the memory recall function.
- ▼
- D** With each press, the stored data are recalled from the oldest to the newest.
- ▼
- B** Press to return to STOPWATCH mode.

TIMER

- Two types of timers are available: preset timer and adjustable timer.
- Four different lengths of time have been preset for the preset timer: 3, 5, 10 and 15 minutes.
- The adjustable timer can be set for up to 9 hours and 59 minutes in one minute increments.

A Press to show TIMER mode.

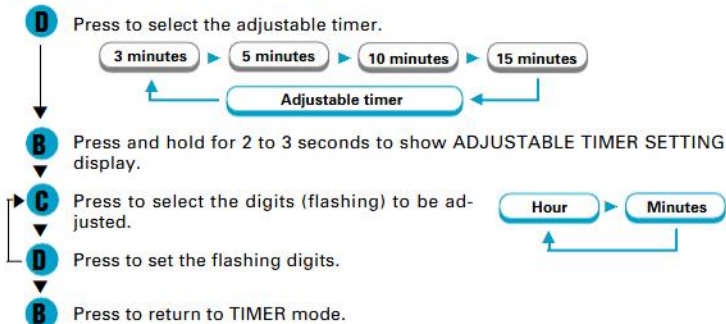


PRESET TIMER SETTING

D Press repeatedly to select the desired preset time.



ADJUSTABLE TIMER SETTING



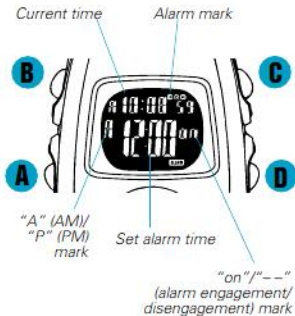
TIMER OPERATION



ALARM

- The alarm can be set to ring on a 24-hour basis.
- At the designated time, the display is illuminated as the alarm rings.

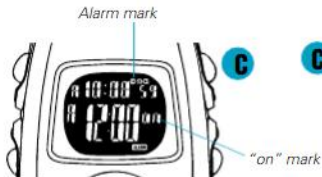
ALARM TIME SETTING



- A** Press to show ALARM mode.
- ▼
- B** Press and hold for 2 to 3 seconds to show ALARM SETTING display.
- ▼
- C** Press to select the digits (flashing) to be adjusted.
- Hour Minutes
- ▼
- D** Press to set the flashing digits.
- ▼
- B** Press to return to ALARM mode.

* The alarm and "on" marks are displayed and the alarm is automatically engaged.

● ALARM ENGAGEMENT/DISENGAGEMENT

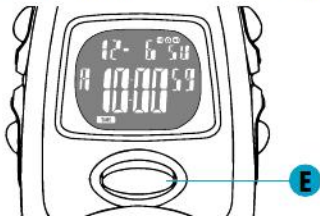


C With each press in ALARM mode, the alarm is alternately engaged and disengaged.

* At the designated time the alarm rings for 20 seconds, and the display is illuminated as the alarm rings. To stop them manually, press any of the five buttons.

ILLUMINATING LIGHT (Electroluminescent panel)

- Certain materials emit light when voltage passes through them. This phenomenon, known as “electroluminescence”, is used to illuminate the display.



E Press in any mode.

** The display is illuminated for 3 seconds.*

NOTES ON USING THE WATCH

MODE CHANGE

- When the confirmation sound is switched on, a beep sounds with each press of button A. As a reference aid, the pitch is different when the TIME/CALENDAR mode appears.

TIME/CALENDAR SETTING

- The calendar automatically adjusts for odd and even months including February of leap years from the year 1995 up to the end of 2044.
- Once the year, month and date have been set, the day of the week is automatically set.
- The flashing digits except on/off of the auto illumination function, the seconds and the 12-/24-hour indication move quickly if button D is kept pressed.
- In setting the seconds, when the seconds read any number from "30" to "59" and button D is pressed, one minute is added and the seconds are reset to "00".
- Changeover between 12- and 24-hour indications is made alternately with each press of button D.
- If the watch is left untouched in the TIME/CALENDAR SETTING display with the digits flashing, it will automatically return to the TIME/CALENDAR mode in 2 to 3 minutes.
- When the hourly time signal mark is displayed, the hourly time signal rings every hour on the hour and the confirmation sound beeps with each press of the buttons.
- **When all the segments light up:**

If buttons C and D are pressed at the same time in the TIME/CALENDAR SETTING display, all the segments of the display will light up as shown at right. This is not a malfunction.

Press any of the five buttons to return to the TIME/CALENDAR mode and then, set the time/calendar again.



STOPWATCH

- When button D is pressed to measure a lap time, the lap time measured and lap number remain displayed for 10 seconds and then, the display automatically returns to the measurement in progress.
- The lap number counts up to "99". After "99", the number is displayed in two digits such as "00" for 100, "01" for 101, and so on.
- By turning on both the button operation confirmation sound and auto illumination function, a beep sounds and the display is illuminated every minute to signal the lapse of time for the first 19 minutes. The beep sounds every minute after the first 19 minutes.
- Even if the STOPWATCH mode is changed to another while the measurement is in progress, it continues counting properly and the flashing STOPWATCH mode mark indicates that the stopwatch is in use. After the stopwatch is used, however, be sure to reset it to prevent the overconsumption of battery energy that would shorten the battery life.
- In memory recall after measurement, the oldest measurement in memory is displayed first. In memory recall during measurement, the newest one is displayed first.

TIMER

- In the adjustable timer setting, the flashing digits move quickly if button D is kept pressed.
- If the watch is left untouched in the TIMER SETTING display with the digits flashing, it will automatically return to the TIMER mode in 2 to 3 minutes.
- Restart and stop of the timer can be repeated by pressing button C.
- When the set time is up, a warning sound beeps for 5 seconds. To stop it manually, press any of the five buttons.
- After the set time is up, the timer counts down the set time repeatedly. After the timer is used, therefore, be sure to reset it.
- After the countdown is repeated 99 times, the number of times the countdown is repeated is displayed in two digits such as "00" for 100, "01" for 101, and so on.
- By turning on the button operation confirmation sound, a beep sounds every minute to signal the lapse of time.

- By turning on the auto illumination function, the display is illuminated every minute to signal the lapse of time for the last 19 minutes of the countdown. If the countdown is repeated more than 10 times, however, the display will not be illuminated.
- Even if the TIMER mode is changed to another while the measurement is in progress, it continues counting properly and the flashing TIMER mode mark indicates that the timer is in use. After the timer is used, however, be sure to reset it to prevent the overconsumption of battery energy that would shorten the battery life.

ALARM

- In the alarm time setting, the flashing digits move quickly if button D is kept pressed.
- When the time function is displayed in the 24-hour indication, the alarm is also displayed in the 24-hour indication.
- When setting the hour digits in the 12-hour indication, check that AM/PM is properly set.
- If the watch is left untouched in the ALARM SETTING display with the digits flashing, it will automatically return to the ALARM mode in 2 to 3 minutes.
- The alarm can be tested by keeping buttons C and D pressed at the same time in the TIME/CALENDAR mode.

ILLUMINATING LIGHT (Electroluminescent panel)

- The electroluminescent panel loses its luminance as the battery voltage decreases. Also, its luminance level decreases gradually with use. After 240 hours of use, the level decreases by about half.
- When the illuminating light becomes dim, replace the battery with a new one. If the illuminating light remains dim after the battery is replaced, have the electroluminescent panel replaced with a new one by the retailer from whom the watch was purchased, or an AUTHORIZED SEIKO DEALER. It will be replaced at cost.
- While the illuminating light is used, the watch gives out a slight noise. However, this is not a malfunction.

BATTERY CHANGE

**2
Years**

The miniature battery which powers your watch should last approximately **2 years**. However, because the battery is inserted at the factory to check the function and performance of the watch, its actual life once in your possession may be less than the specified period. When the battery expires, be sure to replace it as soon as possible to prevent any malfunction. For battery replacement, we recommend that you contact an AUTHORIZED SEIKO DEALER and request **SEIKO CR2025** battery.

* *The battery life may be less than 2 years if:*

- *the stopwatch is used for more than 10 hours a day,*
- *the timer is used for more than 10 hours a day,*
- *the alarm is used more than once a day,*
- *the illuminating light is used more than 3 times a day,*
- *the auto illumination function is used more than 30 times a week, and/or*
- *the confirmation sound is used more than 24 times a day.*

● **Battery life indicator**

When all the digits start flashing, replace the battery with a new one as soon as possible. Otherwise, the watch will stop operating 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.*

● **Necessary procedure after battery change**

After the battery is replaced with a new one, or an abnormal display (broken digits, etc.) appears, follow the procedure below to reset the IC.

Press and hold buttons A, B, C and D at the same time for 2 to 3 seconds.

* The display shown at right appears when the buttons are released.

* Before using the watch, set the time/calendar and then the alarm.



WARNING

- Do not remove the battery from the watch.
- If it is necessary to take out the battery, keep it out of the reach of children. If a child swallows it, consult a doctor immediately.



CAUTION

- Never short-circuit, heat or otherwise tamper with the battery, and never expose it to fire. The battery may burst, become very hot or catch fire.
- The battery is not rechargeable. Never attempt to recharge it, as this may cause battery leakage or damage to the battery.

TO PRESERVE THE QUALITY OF YOUR WATCH

■ WATER RESISTANCE

Indication on case back	Condition of use	Accidental contact with water such as rain and splashes	Swimming, yachting and taking a shower	Taking a bath and shallow diving	Scuba diving** and saturation diving
	Degree of water resistance*				
No indication	Non-water resistant	No	No	No	No
WATER RESISTANT	3 bar	Yes	No	No	No
WATER RESISTANT 5 BAR	5 bar	Yes	Yes	No	No
WATER RESISTANT 10/15/20 BAR	10/15/20 bar	Yes	Yes	Yes	No

● Non-water resistant



- If the watch becomes wet, have it checked by an AUTHORIZED SEIKO DEALER or SERVICE CENTER.

● Water resistant 5/10/15/20 bar



- Do not operate the buttons when the watch is wet or in water. If used in sea water, rinse the watch in fresh water and dry it completely.



- When taking a shower with a water resistant 5 bar watch, or taking a bath with a water resistant 10, 15

or 20 bar watch, be sure to observe the following:

- * Do not operate the buttons when the watch is wet with soapy water or shampoo.
- * If the watch is left in warm water, a slight time loss or gain may be caused. This condition, however, will be corrected when the watch returns to normal temperature.

* *Pressure in bar is a test pressure and should not be considered as corresponding to actual diving depth since swimming movement tends to increase the pressure at a given depth. Care should also be taken on diving into water.*

** *We recommend that you wear a SEIKO Diver's Watch for scuba diving.*

■ TEMPERATURES



Your watch works with stable accuracy within a temperature range of 5°C and 35°C (41°F and 95°F).

Temperatures over 50°C (122°F) or below -10°C (+14°F) may cause a slight time loss or gain or battery leakage or shorten the battery life.

However, the above conditions will be corrected when the watch returns to normal temperature.

■ SHOCKS & VIBRATION



Be careful not to drop your watch or hit it against hard surfaces.

■ MAGNETISM



Your watch will not be affected by magnetism.

■ CHEMICALS



Be careful not to expose the watch to solvents, mercury, cosmetic spray, detergents, adhesives or paints. Otherwise, the case, bracelet, etc. may become discolored, deteriorated or damaged.

■ CARE OF CASE AND BRACELET



To prevent possible rusting of the case and bracelet, wipe them periodically with a soft dry cloth.

■ PERIODIC CHECK



It is recommended that the watch be checked 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.

■ PRECAUTION REGARDING CASE BACK PROTECTIVE FILM



If your watch has a protective film and/or a sticker on the case back, be sure to peel them off before using your watch.

■ STATIC ELECTRICITY



The IC (Integrated Circuit) used in your watch will be affected by static electricity which may disturb the display. Keep the watch away from close contact with objects such as TV screens which emit strong static electricity.

■ LIQUID CRYSTAL PANEL



The normal life expectancy for a liquid crystal panel is approximately 7 years. After that it may decrease in contrast, becoming difficult to read. Please contact your **AUTHORIZED SEIKO DEALER** or **SERVICE CENTER** if you wish to have a new panel fitted (guaranteed one year).

SPECIFICATIONS

- | | | |
|---|--|--|
| 1 | Frequency of crystal oscillator | 32,768 Hz (Hz = Hertz ... Cycles per second) |
| 2 | Loss/gain (monthly rate) | Less than 20 seconds at normal temperature range (5° C ~ 35° C) (41° F ~ 95° F) |
| 3 | Operational temperature range | -10° C ~ +50° C (14° F ~ 122° F) |
| | Desirable temperature range of use | -10° C ~ +50° C (14° F ~ 122° F) |
| 4 | Display system | |
| | TIME/CALENDAR mode | Year (only in the TIME/CALENDAR SETTING display), month, date, day of the week, hour, minutes and seconds
"A" (AM)/"P" (PM) mark in the 12-hour indication
TIME/CALENDAR mode mark
(Alarm mark, hourly time signal mark and auto illumination mark) |

STOPWATCH mode	Measures up to 10 hours. Hour, minutes, seconds and 1/100 seconds Current time and "A" (AM)/"P" (PM) mark in the 12-hour indication STOPWATCH mode mark, lap No., "LAP" mark, and "RECALL" mark in the MEMORY RECALL display (Alarm mark, hourly time signal mark and auto illumination mark)
TIMER mode	Up to 9 hours and 59 minutes can be set in minute increments for the adjustable timer. Hour, minutes, seconds and the number of times the countdown is repeated TIMER mode mark (Alarm mark, hourly time signal mark and auto illumination mark)
ALARM mode	Alarm time (hour and minutes) and current time "A" (AM)/"P" (PM) mark in the 12-hour indication ALARM mode mark and "on"/"--" mark (Alarm mark, hourly time signal mark and auto illumination mark)
5 Display medium	Nematic Liquid Crystal, FEM (Field Effect Mode)
6 Battery	SEIKO CR2025, 1 piece
7 Battery life indicator	All the digits in the display start flashing when the battery life nears its end.
8 IC (Integrated Circuit)	C-MOS-LSI, 1 piece Bipolar IC, 1 piece