

PULSAR

CAL. W621 DIGITAL QUARTZ

- Time/calendar
- Stopwatch with 8 lap memory
- Countdown timer with preset and adjustable timer functions
- Daily alarm
- Stroke function
- Electroluminescent panel

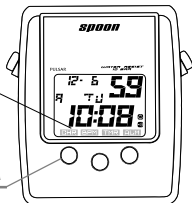
ENGLISH

MODE CHANGE

English

Mode mark
(No mode mark in
TIME/CALENDAR mode)

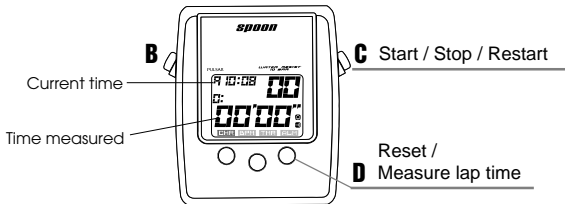
Change modes **A**



TIME/CALENDAR ➡ STOPWATCH ➡ STROKE
ALARM ← TIMER

STOPWATCH MODE

- The stopwatch measures up to 10 hours in 1/100 second increments.

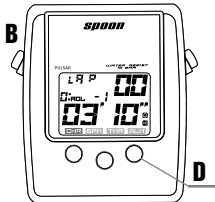


* Lap time measurement



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, stored data are recalled from the oldest to the newest.

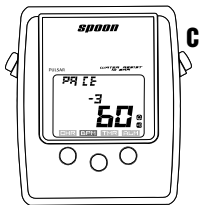


B Return to STOPWATCH mode.

***In memory recall after measurement, the oldest data in memory is displayed.
In memory recall during measurement, the newest one is displayed.*

STROKE MODE

- The number of strokes per minute is automatically calculated by measuring the time required to make three strokes.



C Press to start measurement.



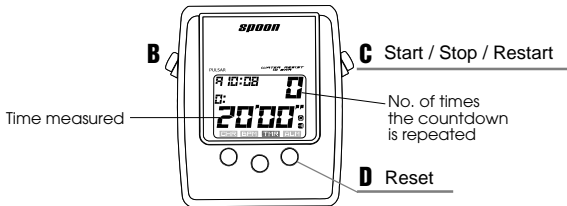
C Press to stop measurement when the third stroke is made.

** The number of strokes per minute will be displayed.*

- ▶ **C** Select the digits to be adjusted (hour/minutes).
- ▼ **D** Set the flashing digits.
- ▼ **B** Return to TIMER mode.

TIMER OPERATION

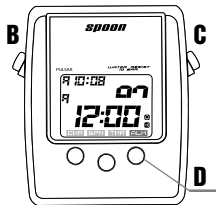
English



* When the set time is up, a warning sound beeps for 5 seconds. To stop it manually, press any one of the buttons.

ALARM MODE

ALARM SETTING



B Press for 2 to 3 seconds.



C Select the digits to be adjusted (hour/minutes).



D Set the flashing digits.



B Return to ALARM mode.

** The alarm is automatically engaged.*

* Alarm engagement/disengagement

Alarm engaged



C Engage/disengage the alarm

"on" mark

Alarm mark ()

*** Turning on/off of hourly time signal and button operation confirmation sound**



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

Hourly time signal mark ()

English

ILLUMINATING LIGHT (Electroluminescent panel)



** The display panel is illuminated for 3 seconds.*

E Turn on the illuminating light.

10

ViViDiGi

- **ViViDiGi** is a new type of liquid crystal panel that makes possible various colors and high contrast.
 - Excellent light reflection and transmission make the display bright and clear.
 - Various color options are available.
 - Either the whole panel or the displayed data only can be illuminated.

* *Features vary in different models.*

NOTES ON USING THE WATCH

MODE CHANGE

- If the stopwatch is not reset to "00" and button A is pressed to change the mode from the STOPWATCH, the TIMER mode appears, skipping the STROKE mode.
- When the confirmation sound is turned on, a beep sounds with each press of button A to change over the mode.
- The design and color of the display differ depending on the model.

TIME/CALENDAR MODE

- The calendar automatically adjusts for odd and even months including February of leap years from the year 1994 up to the end of 2043.
- In second setting, when the seconds count any number from "30" to "59" and button D is pressed, one minute is added and the seconds are reset to "00".
- The flashing digits except the seconds and 12-/24-hour indication move quickly if button D is kept pressed.
- Once the year, month and date have been set, the day of the week is automatically set.
- If the watch is left untouched with the digits flashing, it will automatically return to the TIME/CALENDAR mode in 2 to 3 minutes.
- **Note on unusual display:**

While setting the time/calendar, all the segments of the display will light up if both

buttons C and D are pressed at the same time. This is not a malfunction. Press any one of the buttons to return to the TIME/CALENDAR mode, and then set the time/calendar again.

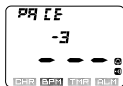
STOPWATCH MODE

- Lap time measured and lap number remain displayed for 10 seconds, and then, the current time appears in the upper row of the display.
- The lap number counts up to "99". After that, it is displayed in 2 digits such as "00" for 100, "01" for 101, and so on.
- The first 8 lap times are automatically stored in memory.
- Even if the digits are reset to "00" in the stopwatch measurement, stored data is not erased and can be recalled unless a new measurement is started.
- 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 as the battery energy is consumed enormously to shorten the battery life.



STROKE MODE

- The time required to make each stroke is measured up to 9 seconds and 99 in 1/100 second increments.
- The measurable number of strokes per minute is between 18 and 240.
- The stroke and stopwatch functions cannot be used simultaneously.
- If the measurement is stopped within 0.75 seconds after it is started, "---" is displayed. If the measurement is not stopped after more than 10 seconds have elapsed, "Err" will automatically appear. Even if "---" or "Err" is shown, the measurement can be started by pressing button C.



TIMER MODE

- The adjustable timer can be set up to 9 hours and 59 minutes in minute increments.
- By pressing button B for 2 to 3 seconds in any one of the preset timer displays, the adjustable timer setting function is activated.
- 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 as the battery energy is consumed enormously to shorten the battery life.

- If button D is pressed while the time set for the adjustable timer is displayed, the set time will be canceled and the preset time of 3 minutes will be shown.
- Restart and stop of the timer can be repeated by pressing button C.
- After the countdown is repeated 99 times, the number of times the countdown is repeated is displayed in 2 digits such as "00" for 100, "01" for 101, and so on.
- If the watch is left untouched with the digits flashing, it will automatically return to the TIMER mode in 2 to 3 minutes.
- 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 as the battery energy is consumed enormously to shorten the battery life.

ALARM MODE

- 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 one of the buttons.
- 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 with the digits flashing, it will automatically return to the ALARM mode in 2 to 3 minutes.
- **Alarm test:** The alarm can be tested by keeping buttons C and D pressed in the TIME/CALENDAR mode.

- 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.

ILLUMINATING LIGHT (electroluminescent panel)

- The electroluminescent panel loses its luminance as the battery voltage gets lowered. Also, its luminance level decreases gradually with use. After 120 hours of use, the level decreases by about half.
- While the illuminating light is turned on, the watch gives out a slight noise, but this is not a malfunction.

BATTERY CHANGE

**2
Years**

Battery life : Approx. 2 years

Battery : SEIKO CR2025

- *The battery life may be less than 2 years if the alarm is used for more than 10 seconds a day and/or the illuminating light more than 2 times a day.*
- *As 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.*
- *We recommend that you contact an AUTHORIZED PULSAR DEALER for battery replacement.*

- **Battery life indicator**

When all the digits start flashing, have the battery replaced with a new one as soon as possible.

- **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.

TO PRESERVE THE QUALITY OF YOUR WATCH

WATER RESISTANCE

● Non-water resistant



- If the watch becomes wet, have it checked by an **AUTHORIZED PULSAR 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 the water resistant 5 bar watch, or taking a bath with the 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 PULSAR 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 -5° C (+23° 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.

MAGNETISM



Your watch will not be affected by magnetism.

CARE OF CASE AND BRACELET



To prevent possible rusting of the case and bracelet caused by dust, moisture and perspiration, wipe them periodically with a soft dry cloth.

SHOCKS & VIBRATION



Light activities will not affect your watch, but be careful not to drop your watch or hit it against hard surfaces, as this may cause damage.

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.

PERIODIC CHECK



It is recommended that the watch be checked once every 2 to 3 years. Have your watch checked by an **AUTHORIZED PULSAR 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 the liquid crystal panel of the watch is approximately 5 years. After that it may decrease in contrast, becoming difficult to read. Please contact your **AUTHORIZED PULSAR DEALER** or **SERVICE CENTER** if you wish to have a new panel fitted (guaranteed one year).