

NPED22

PULSAR

DIGITAL TYPE
Series PVH (Cal. W670)

INSTRUCTIONS

FEATURES

- Time/calendar
- Stopwatch
- Countdown timer with preset and adjustable timer functions
- Daily alarm
- Auto illumination function
- Illuminating light

AUTO ILLUMINATION FUNCTION

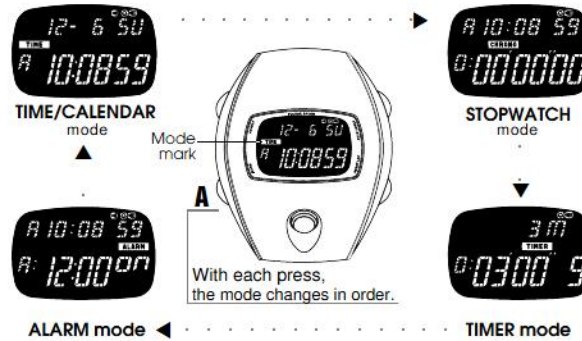
- The display is usually turned off. By pressing a button to operate the watch, the light is turned on to show the display for 2 seconds.
- The display will be turned off 2 seconds after a button is pressed.
* To check the data on the display, press button E. (See "ILLUMINATING LIGHT" below)
- While the stopwatch or timer is counting, the display is illuminated every minute to signal the lapse of time: For the first 19 minutes in the stopwatch function and for the last 19 minutes in the timer function.

ILLUMINATING LIGHT



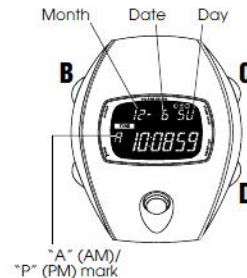
Turn on the illuminating light.
The display panel is illuminated for 3 seconds.

MODE CHANGE



- When the confirmation sound is turned on, a beep sounds with each press of button A to change over the mode. It sounds in a different tone when the TIME/CALENDAR mode appears, so that you can easily know the mode shown.

TIME/CALENDAR MODE



TIME/CALENDAR SETTING

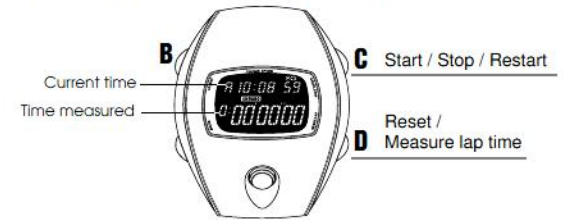
- B** Press for 2 to 3 seconds.
- C** Select the digits to be adjusted.
- D** Set the flashing digits.
- B** Return to TIME/CALENDAR mode.

Selection of the digits
Seconds → Minutes → Hour → Date
↑ ↓
12-/24-hour indication Year Month

- The calendar automatically adjusts for odd and even months including February of leap years.
- 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

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



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 measurement in memory is displayed. In memory recall during measurement, the newest measurement in memory is displayed.

- 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 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.
- When the button operation confirmation sound is turned on, a beep sounds every minute to signal the lapse of time.
- 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.
- The display will be turned off 2 seconds after a button is pressed. To check the data on the display, press button E.

TIMER MODE

- Two types of timer are available: preset timer and adjustable timer.
- The adjustable timer can be set up to 9 hours and 59 minutes in minute increments.



PRESET TIMER SETTING

- D** Select the preset time.

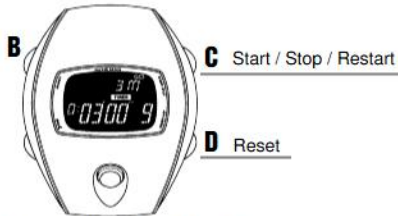
Selection of the preset time/
adjustable timer

Adjustable timer → 3 min. → 5 min.
← 15 min. ← 19 min.

ADJUSTABLE TIMER SETTING

- D** Select the adjustable timer.
- B** Press for 2 to 3 seconds.
- C** Select the digits to be adjusted (hour/minutes).
- D** Set the flashing digits.
- B** Return to TIMER mode.

TIMER OPERATION

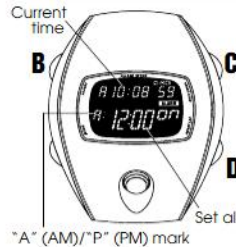


- C** Start / Stop / Restart
- D** Reset

* When the set time is up, a warning sound beeps for 5 seconds. To stop it manually, depress any one of the 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 as the battery energy is consumed enormously to shorten the battery life.
- In the adjustable timer setting, the flashing digits move quickly if button D is kept pressed.
- If the watch is left untouched 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.
- The display will be turned off 2 seconds after a button is pressed. To check the data on the display, press button E.
- 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.
- When the button operation confirmation sound is turned on, a beep sounds every minute to signal the lapse of time.
- 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.
- If the timer is left counting without being stopped, it will automatically be stopped and reset to show the set time when more than 12 hours passed and the time display reaches 0:00 a.m. or 0:00 p.m.

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

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

Alarm engaged

Alarm mark "on" mark

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

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

Hourly time signal mark

- 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 TIMER 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.

BATTERY CHANGE

2 Years Battery life : Approx. 2 years
Battery : SEIKO CR2025

- The battery life may be less than 2 years if the stopwatch is used for more than 10 hours a day, the timer for more than 10 hours a day, the alarm more than once a day, the illuminating light more than 3 times a day, the confirmation sound more than 24 times a day and/or the auto illumination more than 30 times a week.
- If the illuminating light is not turned on by pressing any of the buttons, replace the battery with a new one as the battery has run down.
- 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.

- **Necessary procedure after battery change**
After the battery is replaced with a new one, or if 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.



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.
- Never short-circuit, tamper with or heat the battery, and never expose it to fire. The battery may burst, become very hot or catch fire.

CAUTION

- 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

- **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.

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.

MAGNETISM

- The watch will not be affected by magnetism.

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.

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.

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.

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).

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.

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.