

PULSAR

INSTRUCTION MANUAL FOR WATCH CALIBRE
W863



WARNING



THIS PRODUCT CONTAINS A BUTTON BATTERY

If swallowed or placed inside any part of the body, the battery can cause severe or fatal injuries within 2 hours or less.

Button batteries are hazardous whether new or used. Keep batteries out of reach of children.

If you think the battery may have been swallowed or placed inside any part of the body, seek immediate medical attention. Contact the Australian Poisons Information Centre immediately on 13 11 26 (New Zealand 0800 764 766) for 24 / 7 fast, expert advice.

PULSAR

CAL. W863 DIGITAL QUARTZ

- Full-panel dot-matrix liquid crystal panel
- Time/calendar
- Stopwatch with memory recall function
- Countdown timer
- 3-channel regular alarm
- World time
- Illuminating light (LED panel)
- Auto illumination

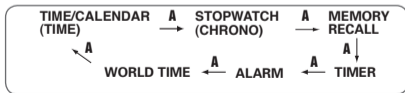
ENGLISH

MODE CHANGE

- Selection of a desired mode can be made by pressing and holding button A for more than two seconds.



- A** With each pressing, the mode in the digital display changes in the following order:



ILLUMINATING LIGHT (LED PANEL)

- D** Press to turn on the LED light.

The display panel is evenly illuminated for 2 seconds.

AUTO ILLUMINATION

- If set in advance, the display is illuminated for approximately 2 seconds with each press of any of the buttons (except pressing buttons for adjusting items or digits).
- D** With each pressing for more than 2 seconds in any mode, the auto illumination can be set or cancelled.

The auto illumination cannot be set or cancelled when either of the setting displays is shown.

Auto illumination mark



TIME/CALENDAR MODE (TIME)

- Once the time/calendar of your area is set in the TIME/CALENDAR mode, the times of the 33 cities in the WORLD TIME mode will be set automatically.

A Press until the watch enters TIME/CALENDAR mode.

"TIME" is shown, and the watch enters the TIME/CALENDAR display in 2 seconds.



TIME/CALENDAR SETTING

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

E Press to select the digits to be adjusted.

Selection of the digits

City	⇒	DST	⇒	Second	⇒	Minute	⇒	Hour	⇒	Date
↑										↓
Contrast level adjustment			⇐	12-/24-hour indication		⇐	Year		⇐	Month

C Set the flashing digits. (Increasing digits)

or

B Set the flashing digits. (Decreasing digits)

A Return to TIME/CALENDAR mode.

English

CHANGEOVER BETWEEN STANDARD TIME AND DAYLIGHT SAVING TIME

- E** If the daylight saving time is effective in the selected city, press to show the daylight saving time.

With each press of button E, the standard time and daylight saving time of the city are alternatively shown.

English

KEY SOUND SETTING

- C** Press to turn the key sound on or off.

The key sound can be heard by pressing and holding buttons C and E at the same time.

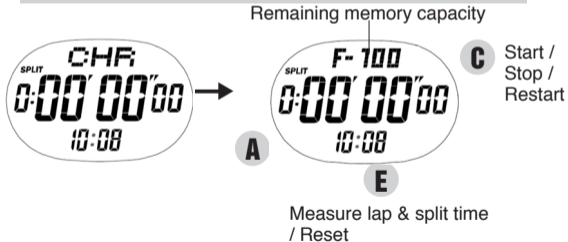


STOPWATCH MODE (CHRONO)

- The stopwatch measures up to 9 hours, 59 minutes and 59.99 seconds in 1/100 second increments.

A Press until the watch enters STOPWATCH mode.

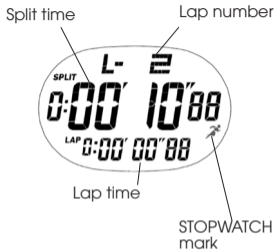
"CHR" is shown, and the watch enters the STOPWATCH display in 2 seconds.



English

STOPWATCH OPERATION

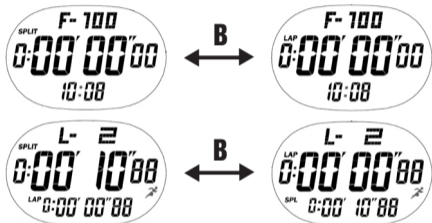
- C** Press to start the stopwatch.
- ▼
- E** **LAP/SPLIT 1**
- ▼ Press to take a lap time.
- E** **LAP/SPLIT 2**
- ⋮
- ▼
- C** Press to stop the stopwatch.



While the stopwatch is measuring, STOPWATCH mark is flashing.

CHANGEOVER BETWEEN LAP TIME AND SPLIT TIME

- B** Press and hold for more than 2 seconds to change over Lap time and Split time.



MEMORY RECALL MODE

- The first 100 lap and split times are automatically stored in memory.
- The stored data can be recalled either during or after the measurement.

A Press until the watch enters MEMORY RECALL mode.



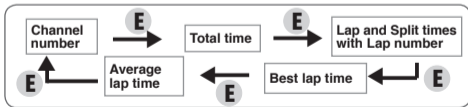
C Show the desired channel number. (Moves forward)

or

B Show the desired channel number. (Moves backward)



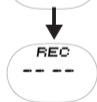
E Press to view the contents of the selected channel data.



HOW TO DELETE THE CHANNEL

- A** Press and hold for 2 seconds to delete the selected channel data.
- ▼
- A** Press and hold for 2 seconds again to delete all the stored data.
- ▼
- A** Keep pressed for another 2 seconds.

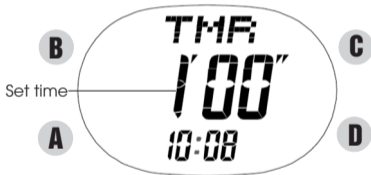
After "F-100" is displayed, the watch automatically returns to MEMORY RECALL display and "—" mark is displayed.



TIMER MODE

- The timer can be set from 1 minute up to 59 minutes 59 seconds in one-second increments.

A Press to show TIMER mode.



TIMER SETTING

A Press for 2 seconds to show TIMER SETTING display.
The minute digits start flashing.



C Set the flashing digits. (Increasing digits)

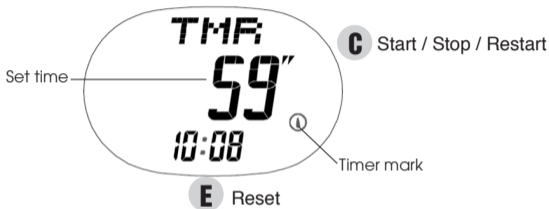
or

B Set the flashing digits. (Decreasing digits)



A Return to TIMER mode.

TIMER OPERATION

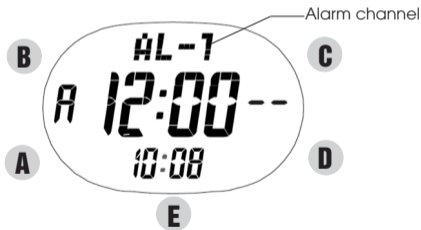


- While the timer is counting, **TIMER** mark is flashing.
- When the set time is up, a warning sound beeps for 10 seconds. To stop it manually, press any of the buttons.

ALARM MODE

- The alarm can be set to ring daily at three different times per day.

- A** Press until the watch enters ALARM mode.



ALARM TIME SETTING

E Press to select the desired alarm channel (from AL-1 to AL-3).



A Press for 2 seconds to show ALARM SETTING display.



E Press to select the digits to be adjusted (hour/minute).



C Set the flashing digits. (Increasing digits)

or

B Set the flashing digits. (Decreasing digits)



A Return to ALARM mode.

"ON" and the alarm marks appear and the alarm is automatically engaged.

English

ALARM ENGAGEMENT/DISENGAGEMENT

- The alarms can be engaged and disengaged independently of one another.

E Press to select the desired alarm channel (from AL-1 to AL-3).



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

At the designated time, the alarm rings for 20 seconds. To stop it manually, press any of the buttons.



WORLD TIME MODE

- The time of 33 cities in different time zones throughout the world can be displayed.

A Press to show WORLD TIME mode.

DST mark

City mark

English



B or **C** Press to select the desired city.

CHANGEOVER BETWEEN STANDARD TIME AND DAYLIGHT SAVING TIME

- E** If the daylight saving time is effective in the selected city, press to show the daylight saving time.

Press button E to return to the standard time.

TIME DIFFERENCES

(As of November 2014)

GMT = Greenwich Mean Time

GMT± (hours)	City mark	City name	Country name
0	G M T	Greenwich	United Kingdom
0	L O N	London*	United Kingdom
+ 1	P A R	Paris*	France
+ 1	B E R	Berlin*	Germany
+ 2	A T H	Athens*	Greece
+ 2	C A I	Cairo	Egypt
+ 3	M O W	Moscow	Russia
+ 3	B G W	Baghdad	Iraq
+ 3.5	T H R	Tehran*	Iran
+ 4	D X B	Dubai	United Arab Emirates
+ 4.5	K B L	Kabul	Afghanistan
+ 5	K H I	Karachi	Pakistan
+ 5.5	D E L	Delhi	India

GMT ± (hours)	City mark	City name	Country name
+ 6	D A C	Dhaka	Bangladesh
+ 6.5	R G N	Yangon	Myanmar
+ 7	B K K	Bangkok	Thailand
+ 8	B J S	Beijing	China
+ 8	H K G	Hong Kong	China
+ 9	S E L	Seoul	Republic of Korea
+9	T Y O	Tokyo	Japan
+ 9.5	A D L	Adelaide*	Australia
+ 10	S Y D	Sydney*	Australia
+ 11	N O U	Noumea	New Caledonia
+ 12	W L G	Wellington*	New Zealand
- 10	H N L	Honolulu	U.S.A.
- 9	A N C	Anchorage*	U.S.A.
- 8	L A X	Los Angeles*	U.S.A.
- 7	D E N	Denver*	U.S.A.
- 6	C H I	Chicago*	U.S.A.
- 5	N Y C	New York*	U.S.A.

GMT± (hours)	City mark	City name	Country name
- 4	S C L	Santiago	Chile
- 3	R I O	Rio de Janeiro*	Brazil
- 1	P D L	Azores Is.*	Azores Islands

- *The cities marked with "*" use daylight saving time (summer time).*

English

Notice on change of Santiago time zone

Santiago had previously been in a time zone that was 4 hours behind GMT. However, since 2015, Santiago has shifted to a time zone that is 3 hours behind GMT.

NOTES ON USING THE WATCH

TIME/CALENDAR MODE

[TIME/CALENDAR SETTING]

- The calendar automatically adjusts for odd and even months including February of leap years from 2009 to 2058.
- Once the year, month and date have been set, the day of the week is automatically set.
- **Setting the seconds:**
 - *With the second digits flashing, press button B or C in accordance with a time signal. The second digits are reset to "00".*
 - *When the seconds count any number from "30" to "59" and button B or C 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 B or C is kept pressed.
- 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 E 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

- After 9 hours, 59 minutes and 59.99 seconds have been measured, the stopwatch stops. Press button E to reset the stopwatch.
- Restart and stop of the stopwatch can be repeated by pressing button C.
- Measurement of the lap time and split time can be repeated by pressing button E.
- The lap time and split time measured remain displayed for 10 seconds together with the flashing lap number. Then, the display automatically returns to the measurement in progress.



- Even if the digits are reset to "00" in the stopwatch measurement, the 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. After using the stopwatch function, be sure to stop the stopwatch to avoid unnecessary battery usage.

MEMORY RECALL mode

- If no measurement is made, “ - - - - ” mark will be displayed when button A is pressed to show the memory recall display.

TIMER MODE

[TIMER SETTING]

- The flashing digits move quickly if button B or C 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.

[TIMER OPERATION]

- Restart and stop of the timer can be repeated by pressing button C.

ALARM MODE

[ALARM TIME SETTING]

- The flashing digits move quickly if button B or C is kept pressed.
- If the watch is left untouched with the digits flashing, it will automatically return to the ALARM mode in 2 to 3 minutes.
- When the time function is displayed in the 24-hour indication, the alarms are also displayed in the 24-hour indication.

[ALARM ENGAGEMENT/DISENGAGEMENT]

- When any one of the alarms is engaged, the alarm mark is displayed.

WORLD TIME MODE

- The time differences and use of daylight saving time may change in some areas or countries.

ILLUMINATING LIGHT (LED panel)

- The LED (light emitting diode) panel loses its luminance as the battery voltage gets lowered. Also, its luminance level decreases gradually with use.
- The luminance level of LED may decrease if it is left in low temperature.
- If the watch is exposed to low temperatures while the battery is nearing the end of its life, the LED illumination time may become shorter than normal. This shorter LED illumination will allow the watch to maintain timekeeping functionality prior to battery replacement.

BATTERY CHANGE

3
Years

Battery life : Approx. 3 years

Battery : CR2025

- *The battery life may be less than 3 years if the alarm sounds more than 20 seconds a day, if the built-in illuminating light is turned on more than 2 seconds a day, if the timer is used more than once a day, and/or if the stopwatch is used for more than 20 seconds three times a day.*
- *As the battery is inserted at the factory to check the functions 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 the battery voltage becomes low, the battery mark starts flashing on the display. In such a case, 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 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 will become blank. When the buttons are released, time/calendar display will appear and "THU 12:00'00" 09 1-1" will be displayed.

- *Before using the watch, set the time/calendar and 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.
- 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 "WATER RESISTANT" is not inscribed on the case back, your watch is not water resistant, and care should be taken not to get it wet as water may damage the movement. If the watch becomes wet, we suggest that you have it checked by an AUTHORIZED PULSAR DEALER or SERVICE CENTER.

● Water resistance (3 bar)



If "WATER RESISTANT" is inscribed on the case back, your watch is designed and manufactured to withstand up to 3 bar, such as accidental contact with splashes of water or rain, but it is not designed for swimming or diving.

● Water resistance (5 bar)*



If "WATER RESISTANT 5 BAR" is inscribed on the case back, your watch is designed and manufactured to withstand up to 5 bar and is suitable for swimming, yachting and taking a shower.

● Water resistance (10 bar/15 bar/20 bar)*



If "WATER RESISTANT 10 BAR", "WATER RESISTANT 15 BAR" or "WATER RESISTANT 20 BAR" is inscribed on the case back, your watch is designed and manufactured to withstand up to 10 bar/15 bar/20 bar and is suitable for taking a bath, shallow diving, but not for scuba diving. We recommend that you wear a PULSAR Diver's watch for scuba diving.

- * *Before using the water resistance 5, 10, 15 or 20 bar watch in water, be sure the crown is pushed in completely.
Do not operate the crown 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 resistance 5 bar watch, or taking a bath with the water resistance 10, 15 or 20 bar watch, be sure to observe the following:*
 - *Do not operate the crown when the watch is wet.*
 - *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.*

NOTE:

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.

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.

TEMPERATURES



Operational temperature range: Between -5°C ($+23^{\circ}\text{F}$) and 50°C (122°F)



Display temperature range: Between 0°C ($+32^{\circ}\text{F}$) and 40°C ($+104^{\circ}\text{F}$)



Functional temperature range of alarm and LED light: Between 5°C ($+41^{\circ}\text{F}$) and 50°C ($+122^{\circ}\text{F}$)

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.