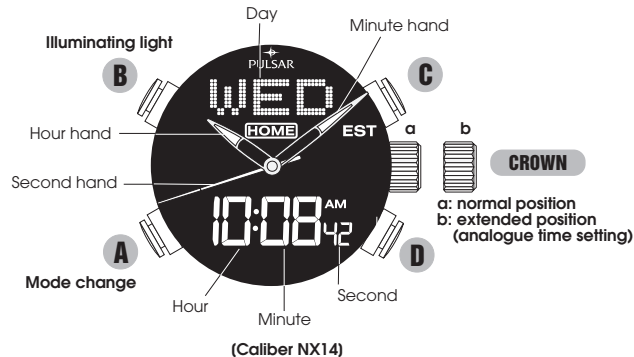
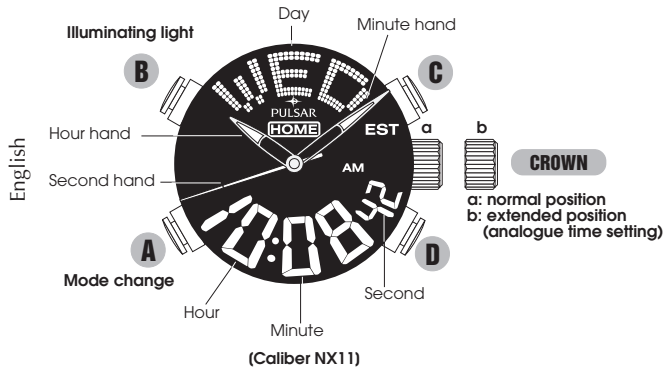


PULSAR

CAL. NX11, NX14 DUO-DISPLAY QUARTZ

- Analogue time display
- Digital time and calendar
- World time function
- 24-hour stopwatch
- Countdown timer
- Regular alarm
- Single-time alarm
- Illuminating light
(Electroluminescent panel)

CROWN/BUTTONS AND DISPLAYS



The caliber NX11 and NX14 have the different designs of digital displays, but their usages are the same. The following sections of this manual will provide explanation by using the caliber NX11 as an example.

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



When display returns to the TIME/CALENDAR display, you will hear the confirmation sound.

- B** Press in any mode to turn the illuminating light on.



The built-in electroluminescent backlight illuminates the display for approximately 3 seconds for easy viewing in darkness.

SCREW DOWN CROWN

[for models with screw down crown]

Unlocking the crown

- 1 Turn Crown counterclockwise until you no longer feel the threads turning.
- 2 Crown can be pulled out.



Locking the crown

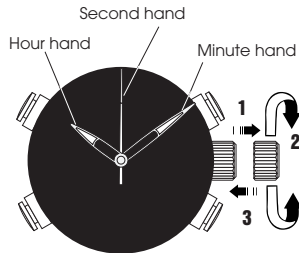
- 1 Push Crown back in to normal position.
- 2 Turn Crown clockwise while pressing it lightly until tight.



TIME/CALENDAR MODE

- The analogue and digital displays are separately illustrated in the following sections of this manual for the purpose of explanation.

ANALOGUE TIME SETTING



CROWN

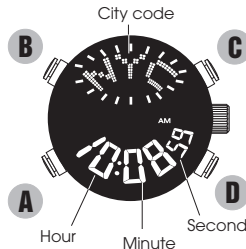
- Pull out when the second hand is at the 12 o'clock position.

The second hand will stop on the spot.

- Turn to set the hour and minute hands to the correct time.
- Push back simultaneously with a time signal.

To set the hands more accurately, advance the hands four to five minutes ahead of the correct time, then slowly move the hands back to the correct time.

DIGITAL TIME/CALENDAR SETTING



* Select the city code representing the city which is in the same time zone as the city you are wearing this watch. For information on city codes and their time zones, refer to "CITIES AND TIME DIFFERENCES" from page 14.

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

The city code currently selected will flash at the top half.

B Press to select the item to be adjusted (flashing).

City *	⇒	Second	⇒	Minute
↑				↓
12-/24-hour indication				Hour
↑				↓
Date	⇐	Month	⇐	Year

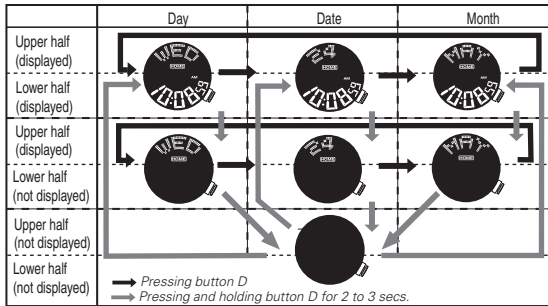
At this point, you can set your "Home City." Refer to "RETURNING TO THE "HOME CITY" DISPLAY."

C or **D** Press to set the flashing item.

A Press to confirm the settings and return to TIME/CALENDAR mode.

CHOICE OF DISPLAY IN TIME/CALENDAR MODE

- Pressing button **D** in TIME/CALENDAR mode will change the calendar element shown at the top half of the display.
- Pressing and holding button **D** for 2 to 3 seconds in TIME/CALENDAR mode will select the item shown at the top and bottom halves of the display.

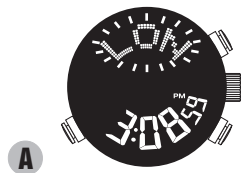


- Choice of display is available only in the TIME/CALENDAR mode.

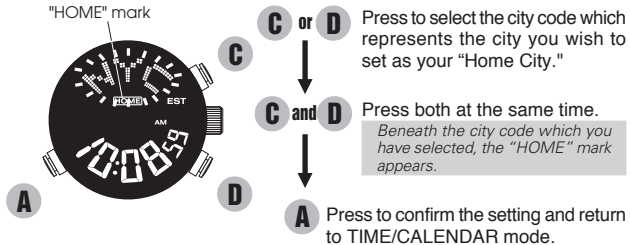
"HOME CITY" SETTING

This watch is equipped with the world time function which enables you to view the time in the 77 cities and regions around the world.

By presetting the "Home City," even if you set the watch to display the time of the place you are staying while traveling abroad, you can easily and conveniently reset the watch to display the time of your "Home City" after your return home. For details, refer to "RETURNING TO THE "HOME CITY" DISPLAY" on page 13.



- A** Press and hold for 2 to 3 seconds.
The city code currently selected will flash at the top half.



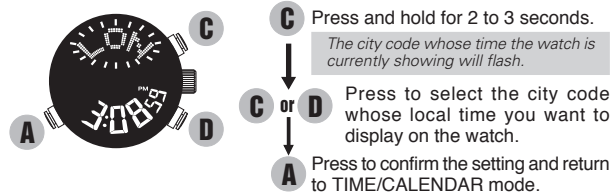
If you need to set the time, follow the procedures from Step 2 in "DIGITAL TIME/CALENDAR SETTING" on page 7.

Note on unusual display:

If all the segments of the display light up in the TIME/CALENDAR SETTING display with the digits flashing, it is not a malfunction. This happens when both buttons C and D are pressed simultaneously. In such a case, press button A, C or D to return to the TIME/CALENDAR mode, and then set the time/calendar again.

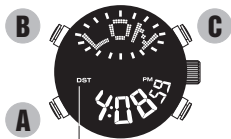
WORLD TIME FUNCTION

- Time in the 77 cities and regions around the world can be displayed. Among those 77 cities, the cities in some time zones with 30-minute offsets from UTC are included.
- Daylight saving time can also be set.
- By presetting the "Home City," you can easily reset the display to the time in your "Home City" after your return from aboard.
- The time zone abbreviations in the United States are also displayed for applicable cities.



- In a case that the alarm is engaged, it will sound at the designated time of the currently selected city.

DAYLIGHT SAVING TIME SETTING



Daylight saving time mark

- While the daylight saving time mark appears on the display, the time is advanced by one hour in all the cities.
- Daylight saving time can be set even for cities and regions where daylight saving time is not actually adopted.

C Press and hold for 2 to 3 seconds.

The city code whose time the watch is currently showing will flash.

B Press to set the daylight saving time.

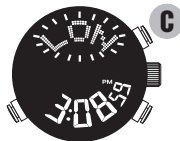
With each pressing of button B, the daylight saving time can be alternately set or cancelled.

For information on city codes and their time zones, refer to "CITIES AND TIME DIFFERENCES."

A Press to confirm the setting and return to TIME/CALENDAR mode.

- In a case that the alarm is engaged, it will sound at the designated time of the current time setting.

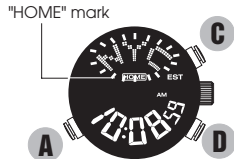
RETURNING TO THE "HOME CITY" DISPLAY



C Press and hold for 2 to 3 seconds.

The city code whose time the watch is currently showing will flash.

C and D Press both at the same time.



A Press to return to TIME/CALENDAR mode.

The display shows the time in your "Home City."

- In a case that the alarm is engaged, the alarm will sound at the designated time of your "Home City" time.

CITIES AND TIME DIFFERENCES

UTC = coordinated universal time

City code	City name	Country or region	Time difference from UTC (hour)	Daylight saving time/US time zone abbr.
UTC	UTC	Universal Coordinated Time		
LON	London	The United Kingdom	0	○
CAS	Casablanca	Morocco	0	○
BCN	Barcelona	Spain	+1	○
MAD	Madrid	Spain	+1	○
PAR	Paris	France	+1	○
AMS	Amsterdam	The Netherlands	+1	○
FRA	Frankfurt	Germany	+1	○
MUC	Munich	Germany	+1	○
BER	Berlin	Germany	+1	○
ZRH	Zurich	Switzerland	+1	○
MIL	Milan	Italy	+1	○
ROM	Rome	Italy	+1	○
CPH	Copenhagen	Denmark	+1	○
STO	Stockholm	Sweden	+1	○

English

City code	City name	Country or region	Time difference from UTC (hour)	Daylight saving time/US time zone abbr.
VIE	Vienna	Austria	+1	○
PRG	Prague	Czech	+1	○
ATH	Athens	Greece	+2	○
IST	Istanbul	Turkey	+2	○
CAI	Cairo	Egypt	+2	○
TLV	Tel Aviv	Israel	+2	○
MOW	Moscow	Russia	+3	○
RUH	Riyadh	Saudi Arabia	+3	
BGW	Baghdad	Iraq	+3	
THR	Teheran	Iran	+3.5	○
DXB	Dubai	The United Arab Emirates (UAE)	+4	
KBLE	Kabul	Afghanistan	+4.5	
KHI	Karachi	Pakistan	+5	
DEL	Delhi	India	+5.5	
DAC	Dacca	Bangladesh	+6	
RGN	Yangon	Myanmar	+6.5	
BKK	Bangkok	Thailand	+7	

English

City code	City name	Country or region	Time difference from UTC (hour)	Daylight saving time/US time zone abbr.
SGN	Ho Chi Minh City	Vietnam	+7	
JKT	Jakarta	Indonesia	+7	
KUL	Kuala Lumpur	Malaysia	+8	
SIN	Singapore	Singapore	+8	
HKG	Hong Kong	China	+8	
PEK	Beijing	China	+8	
SHA	Shanghai	China	+8	
TPE	Taipei	Taiwan	+8	
MNL	Manila	Philippines	+8	
PER	Perth	Australia	+8	
FNJ	Pyongyang	North Korea	+9	
SEL	Seoul	South Korea	+9	
SPK	Sapporo	Japan	+9	
SDJ	Sendai	Japan	+9	
KIJ	Niigata	Japan	+9	
TYO	Tokyo	Japan	+9	
NGO	Nagoya	Japan	+9	
OSA	Osaka	Japan	+9	

City code	City name	Country or region	Time difference from UTC (hour)	Daylight saving time/US time zone abbr.
FUK	Fukuoka	Japan	+9	
OKA	Okinawa	Japan	+9	
ADL	Adelaide	Australia	+9.5	○
SYD	Sydney	Australia	+10	○
NOU	Noumea	New Caledonia	+11	
WLG	Wellington	New Zealand	+12	○
HNL	Honolulu	The United States	-10	
ANC	Anchorage	The United States	-9	○
YVR	Vancouver	Canada	-8	○PST
SEA	Seattle	The United States	-8	○PST
SFO	San Francisco	The United States	-8	○PST
LAX	Los Angeles	The United States	-8	○PST
LAS	Las Vegas	The United States	-8	○PST
DEN	Denver	The United States	-7	○MST
DFW	Dallas	The United States	-6	○CST
CHI	Chicago	The United States	-6	○CST
YMQ	Montreal	Canada	-5	○EST
DTT	Detroit	The United States	-5	○EST



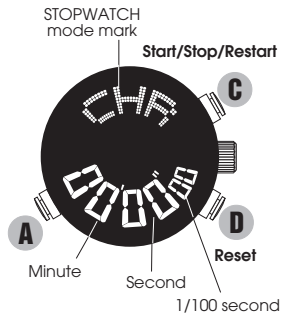
City code	City name	Country or region	Time difference from UTC (hour)	Daylight saving time/US time zone abbr.
ATL	Atlanta	The United States	-5	EST
MIA	Miami	The United States	-5	EST
NYC	New York	The United States	-5	EST
YTO	Toronto	Canada	-5	EST
CCS	Caracas	Venezuela	-4	
BUE	Buenos Aires	Argentina	-3	
SAO	São Paulo	Brazil	-3	
RIO	Rio de Janeiro	Brazil	-3	
PDL	Azores	Azores	-1	

English

- The use of daylight saving time or a time different from UTC may change in some regions or countries as determined by each country.
- The time zone abbreviations in the United States (PST, MST, CST and EST) are also displayed for applicable cities.

STOPWATCH MODE

- The stopwatch can measure up to 23 hours, 59 minutes and 59 seconds in 1/100 second increments for the first 60 minutes and in 1 second increments thereafter.



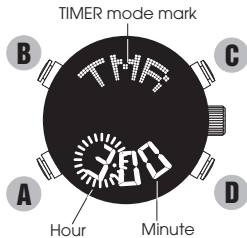
- A** Press once to show STOPWATCH mode.
- C** Press to start or stop the stopwatch.
- Pressing button C will alternately start or stop the stopwatch.
- D** Press to reset to "00'00"00."

English

TIMER MODE

- The timer can be set up to 9 hours and 59 minutes in 1-minute increments.
- When the set time is up, it beeps for 10 seconds.

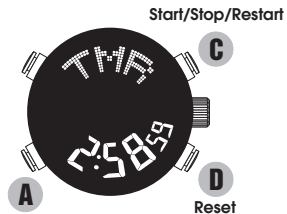
TIMER SETTING



- A** Press twice to show TIMER mode.
- A** Press and hold for 2 to 3 seconds to show TIMER SETTING display.
- B** Press to select the item to be adjusted (flashing).
- Hour ↔ Minute
- C** or **D** Press to set the flashing digits.*
- A** Press to confirm the timer setting.

* If the timer time is set for "0:00," the timer does not function.

TIMER OPERATION

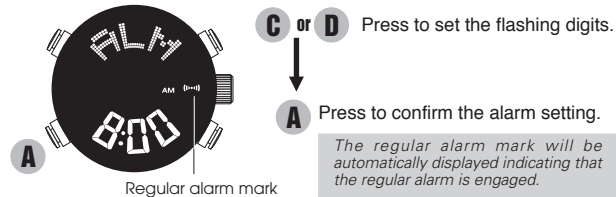
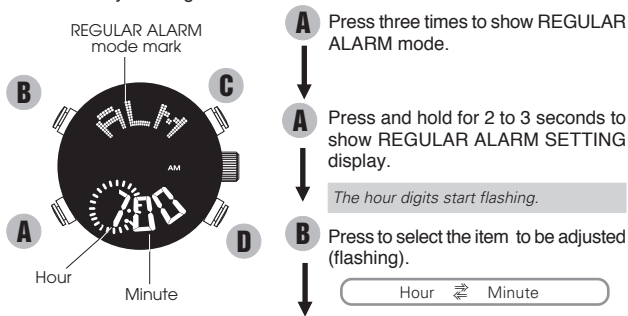


- C** Press to start or stop the timer.
- Pressing button C will alternately start or stop the timer.*
- D** Press to reset.
- Remember to reset the timer time by pressing button D for next use.*

Starting from 3 seconds before the set time is up, the timer beeps for 10 seconds. To stop the beep manually while sounding, press any of the buttons.

REGULAR ALARM MODE

- The regular alarm sounds once every 24 hours.
- You can preview the alarm sound by using the sound demonstration function.
- The hourly time signal can also be set.



Engagement/disengagement of the regular alarm

With each press of button C in the REGULAR ALARM mode, the regular alarm will be alternately engaged or disengaged. Accordingly, the regular alarm mode mark will appear or disappear indicating whether the alarm is ON or OFF.

How to stop the regular alarm manually while sounding

The regular alarm sounds for 20 seconds at the designated time and automatically stops. To stop the regular alarm manually while sounding, press any of buttons A, B, C, or D.

Doing this in any display can stop the alarm.

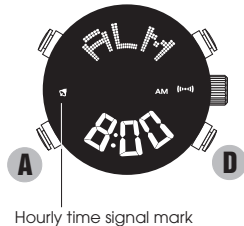
Sound Demonstration Function (Alarm sound preview)

To preview the alarm sound, press button C for 2 to 3 seconds in the REGULAR ALARM mode. The alarm sound can be heard while the button is kept pressed.

Using this function will reverse the regular alarm setting. Reset the alarm by pressing button C.

How to engage or disengage the hourly time signal

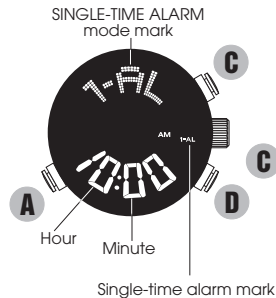
English



- A** Press three times to show REGULAR ALARM mode.
- D** Press to activate the hourly time signal.
- The hourly time signal mark will appear indicating that the hourly time signal setting is ON.*

SINGLE-TIME ALARM MODE

- The Single-Time Alarm sounds only once at a designated time and it is disengaged automatically.

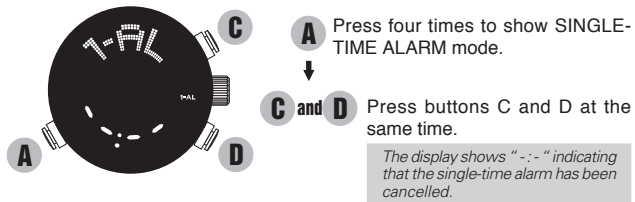


- A** Press four times to show SINGLE-TIME ALARM mode.
- C** Press to show the time one minute ahead of the current time will be displayed.
- C** or **D** Press to set the alarm time.
- A** Press to confirm the alarm setting and return to TIME/CALENDAR mode.

When the single-time alarm time is set, the single-time alarm mark "1-AL" appears to indicate that the single-time alarm is engaged.

English

How to cancel the single-time alarm



How to stop the single-time alarm manually while sounding

The single-time alarm sounds for 20 seconds at the designated time and automatically stops. To stop the single-time alarm manually while sounding, press any of buttons A, B, C, or D.

Doing this in any display can stop the alarm.

The single-time alarm will be automatically cancelled once it sounds at the designated time.

NOTES ON USING THE WATCH

TIME/CALENDAR MODE

[DIGITAL TIME/CALENDAR SETTING]

- The calendar automatically adjusts for odd and even months including February of leap years up to 2050.
- Once the year, month and date have been set, the day of the week is automatically set.
- **Setting the second**
To reset the second digits to “00,” press either button C or D in accordance with a time signal while the second digits are flashing. If button C or D is pressed while the second digits count any number between “30” and “59,” one minute is added and the seconds digits are immediately reset to “00.”
- **12-/24-hour indication setting**
 - When the 12-hour indication is selected, “AM” indicator appears for the morning and “PM” indicator appears from the afternoon.
 - When setting the hour digits in the 12-hour indication, check that the AM/PM is properly set.
- The flashing digits except for second and 12-/24-hour indication move quickly if button C or D is kept pressed.
- If the watch is left untouched in the TIME/CALENDAR SETTING display with the digits/item flashing, it will automatically return to the TIME/CALENDAR mode in 1 to 2 minutes.

WORLD TIME FUNCTION

- *If the watch is left untouched with the city code flashing, it will automatically return to the TIME/CALENDAR mode in 1 to 2 minutes.*

STOPWATCH MODE

- *Even if the STOPWATCH mode is changed to a different mode while the measurement is in progress, it continues counting properly. After the stopwatch is used, however, be sure to stop it as the battery energy is consumed enormously to shorten the battery life.*

TIMER MODE

[TIMER SETTING]

- *The flashing digits move quickly if button C or 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 1 to 2 minutes.*

[TIMER OPERATION]

- *Before start using the timer, reset the timer time by pressing button D.*
- *Restart and stop of the timer can be repeated by pressing button C.*
- *Even if the TIMER mode is changed to a different mode while the measurement is in progress, it continues counting properly. After the timer is used, however, be sure to stop it as the battery energy is consumed enormously to shorten the battery life.*

REGULAR ALARM MODE

[REGULAR ALARM SETTING]

- *The flashing digits move quickly if button C or D is kept pressed.*
- *If the watch is left untouched in the REGULAR ALARM SETTING display with the digits flashing, it will automatically return to the REGULAR ALARM mode in 1 to 2 minutes.*
- *When the 24-hour indication is selected in the TIME/CALENDAR mode, the regular 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.*

SINGLE-TIME ALARM MODE

[SINGLE-TIME ALARM SETTING]

- *The flashing digits move quickly if button C or D is kept pressed.*

ILLUMINATING LIGHT (Electroluminescent panel)

- *When button B is pressed in the calendar or blank display of the TIME/CALENDAR mode, the time/calendar display is shown while the display is illuminated.*
- *The electroluminescent panel loses its luminance as the battery voltage gets lowered. Also, its luminance level decreases gradually with use.*
- *When the illuminating light becomes dim, replace the batteries with new ones. If the light remains dim after the batteries are replaced, have the electroluminescent panel replaced with a new one by the retailer from whom the watch was purchased. 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**

Battery life : Approx. 2 years

**Battery : SEIKO SR626SW, 1 piece
(for analogue display)
SEIKO SR41W, 1 piece
(for digital display)**

- 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 once (for 3 seconds) a day.
- Even if either of the two batteries has run down, replace both of them with new ones.
- As the batteries are inserted at the factory to check the function and performance of the watch, their actual lives once in your possession may be less than the specified period.
- When the batteries expire, be sure to replace them 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 when an abnormal display (failing digits, etc.) appears, follow the procedures below to reset the built-in IC. The watch will resume its normal operation.

Press and hold buttons A, B, C and D at the same time for 2 to 3 seconds until the display becomes blank, then release all the buttons. The watch returns to its default setting, which is "12:00'00" a.m., Jan. 1st, 2005, SAT" with "UTC" selected as "Home City" and contrast level 5. Before start using the watch, set the time, calendar including "Home City", 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 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.

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.

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

The analogue unit of your watch will be adversely affected by strong magnetism, though the digital unit will not be affected. Keep the watch away from close contact with magnetic objects.

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.

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.

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, crown, buttons, gasket and crystal seal remain intact.

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.

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.

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.

