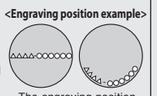
Instruction Manual

Thank you for your purchase of this Citizen watch. Before using the watch, read this instruction manual carefully to ensure correct use.
After reading the manual, store it in a safe place for future reference. Visit the Citizen website (http://www.citizenwatch-global.com/) to view visual guides for operation of your watch. Some models may be equipped with external features (calculation scale, tachymeter, etc.). Visual guides for operation of such external features can also be found on the website.

To check the movement number

A case number– 4 alphanumeric characters and 6 or more alphanumeric characters–is engraved on the case back. (Figure on the right) The first 4 characters of the case number represent the movement number of the watch. In the example on the right, "△△△△" is the movement number.

<Engraving position example>



The engraving position may differ depending on watch model.

Safety precautions
(IMPORTANT)

This manual contains the following instructions that should be strictly followed at all times to prevent injury to yourself and other persons as well as damage to property.

• Safety advisories are categorized and depicted in this manual as follows:

⚠ DANGER	Highly likely to cause death or serious injury.
⚠ WARNING	Can cause serious injury or death.
⚠ CAUTION	Can or will cause minor or moderate injury or damage.

• Important instructions are categorized and depicted in this manual as follows:

⚠	Warning (caution) symbol followed by instructions that should be followed or precautions that should be observed.
⃠	Warning (caution) symbol followed by prohibited matters.

*The illustrations shown in this manual may differ from the actual watch you have purchased.

Specifications

Cal. No.:	B872 / E068 / E168
Type:	Analogue solar powered watch
Crystal oscillation frequency:	32,768 Hz（Hz = number of oscillations in 1 second）
Time accuracy:	Within ± 15 seconds per month on average (when worn at normal temperatures of +5°C to +35°C)
Operational temperature range:	–10℃～ +60℃
Display functions:	Three hands (Hour, minute, second) Calendar (date)
Display functions:	Insufficient recharging warning feature Quick start feature Overcharging prevention feature Time setting notification function (only for B872)
Operation time:	Fully charged to stopping : Approx. 6 months 2 second interval movement to stop-ping : Approx. 3 ～ 4 days
Battery:	Rechargeable cell (lithium button cell),1pc

* Specifications are subject to change without notice.

Features

This is an analog solar-powered watch that is equipped with a solar cell incorporated in its face to convert solar energy into electricity. The energy is stored in the built-in secondary battery and used for driving the watch.

Before Using

Protective Stickers

Be sure to remove any protective stickers that may be on your watch (case back, band, clasp, etc.). Otherwise, perspiration or moisture may enter the gaps between the protective stickers and the parts, which may result in a skin rash and/or corrosion of the metal parts.

Band adjustment

We recommend seeking the assistance of an experienced watch technician for sizing of your watch. If adjustment is not done correctly, the bracelet may unexpectedly become detached leading to loss of your watch or injury.
Consult an authorized service center.

<Proper Use of this Watch>
To use this watch comfortably, make sure to charge it before it stops running completely.
Since there is no risk of overcharging no matter how much the watch is charged (Over Charge Prevention Feature), it is recommended that the watch be charged every day.

How to use a specially designed crown

Some models are equipped with a specially designed crown to prevent accidental operation.

■ **Screw down crown**
Unlock the crown prior to operate your watch.

	Unlock	Lock
Screw down crown	Rotate the crown counterclockwise until it releases from the case.	Push the crown in to the case. With gentle pressure towards the case, rotate the crown clockwise to secure it to the case. Be sure to tighten firmly.

Replacement of Rechargeable Cell

Because the watch uses a rechargeable cell, you do not need periodical cell replacement.
However, power consumption may increase after using for an extended period of time due to deterioration, and the power may run out earlier than expected. To avoid this, we recommend that you have your watch inspected (Charge basis) periodically.

Handling of Rechargeable Cell

• The rechargeable cell should never be removed from the watch. If for any reason it becomes necessary to remove the rechargeable cell from the watch, keep out of the reach of children to prevent accidental swallowing. If the rechargeable cell is accidentally swallowed, consult a doctor immediately.
• Do not dispose of the rechargeable cell with ordinary garbage.Please follow the instructions of your municipality regarding collection of batteries to prevent the risk of fire or environmental contamination.

Recharging Precautions

• Do not charge the watch at a high temperature (about 60℃ or higher) as doing so may cause the movement to malfunction.

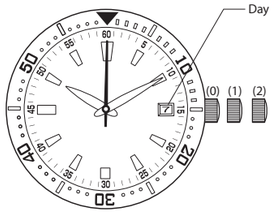
Examples:
• Charging the watch too close to a light source which generates a large a ount of heat such as an incandescent lamp or halogen lamp.
* When charging under an incandescent lamp, be sure to leave 50cm or more between the lamp and the watch to avoid exposing the watch to excessive heat.
• Charging the watch in a location where the temperature may become extremely high such as on the dashboard of a vehicle.

Use Only the Specified Battery
• Never use a battery other than the rechargeable cell specified for use in this watch.
Although the watch structure is designed so that it will not operate when another type of battery is installed, if a silver battery or other type of battery is installed in the watch and the watch is recharged, there is the risk of overcharging which may cause the battery to rupture.
This can cause damage to the watch and injury to the wearer. When replacing the rechargeable cell, always make sure to use the designated rechargeable cell.

Using the Chronograph

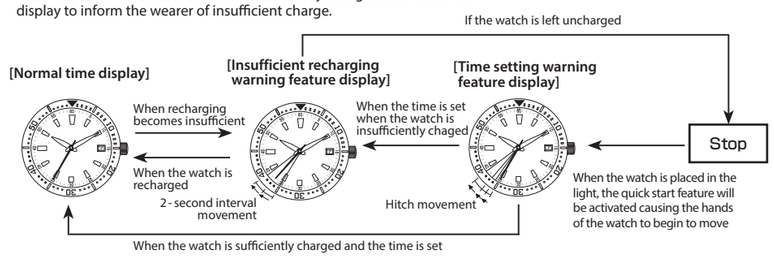
<Setting the Time>
(1) Pull the crown out to time correction position (2) when the second hand reaches the 0 seconds position.
(2) Set the time by turning the crown.
(3) Return the crown firmly to the normal position (0) in synchronization with a time signal such as that provided over the telephone to finish setting the time.

<Setting the Calendar>
(1) Pull the crown out to calendar correction position (1).
(2) Set the date by turning the crown to the left.
* Nothing happens when the crown is turned to the right.
(3) Return the crown firmly to the normal position (0) to finish setting the calendar.
* Do not attempt to correct the calendar when the time displayed on the watch is between the hours of about 9:00 PM and 1:00 AM. If the calendar is corrected between these hours, the day may not change on the following day.
* The date changes at about 0:00 AM.
* The calendar function of this watch operates on a 31-day cycle. It is necessary to change the date to the first day of the following month manualy by turning the crown for months having less than 31days (monthes having 30 days and February.)



Special Functions of Eco-Drive Watches

This watch is provided with a function that causes a warning function to be activated when the watch is insufficiently charged that alters the display to inform the wearer of insufficient charge.



Insufficient Recharging Warning Feature
The second hand changes to two-second interval movement to inform the wearer of insufficient recharging. Although the watch will keep the correct time when this happens, the watch will stop when twosecond interval movement continues for about 4 days. Place the watch in light to recharge. The watch will return to onesecond interval movement.

Quick Start Feature
The watch will stop when it is completely discharged. When placed in light, the hands will begin to move after about 10 seconds.(The time until the hands begin to move varies according to the model and brightness of the light.)
Please note that if the light is blocked, the watch may stop again as a result of being insufficiently recharged.

Overcharging Prevention Feature
When the secondary battery becomes fully charged by exposing the dial (solar cell) to light, the overcharge prevention feature is activated automatically to prevent the battery from being charged further. This lets you expose the watch to light without worrying about overcharging causing damage to the watch.

Time setting notification function (only for B872)
The second hand begins moving at 2-second intervals to notify you that watch has stopped.

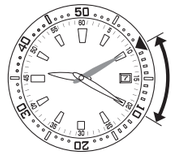
How to use the optional functions

Depending on the model, some optional functions may not be available.

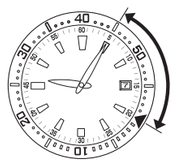
<How to use the register ring>
By indicating the time elapsed and the time remaining, the register ring is useful for keeping track of time.
* For purposes of safety, the register ring can only be turned counterclockwise. This ensures that the register ring is not inadvertantly set back upon entering the water etc.

• **Elapsed time reading:** align the ▼ mark on the register ring with the minute hand and the elapsed time will be shown on the register ring.

• **Remaining time reading:** align the▼ mark on the register ring to the target time to show time remaining.



elapsed time: shows that ten minutes have passed since 9:10.



remaining time: shows that fifteen minutes remain until 9:25, the target time.

Guide to Charging Time

*Below are the approximate times required for charging when exposing the watch dial to light continuously. Please use this table as a reference only.

Environment	Illuminance (lx)	Charging time (approx.)		
		To work for one day	To start working normally when the cell is discharged	To become fully charged when the cell is discharged
Outdoors (sunny)	100,000	2 ～ 3 minutes	18 ～ 36 minutes	9 ～ 12 hours
Outdoors (cloudy)	10,000	10 ～ 12 minutes	2 ～ 3 hours	33 ～ 45 hours
20 cm from a fluorescent lamp (30W)	3,000	30 ～ 40 minutes	7 ～ 8 hours	105 ～ 150 hours
Interior lighting	500	3 ～ 4 hours	44 ～ 60 hours	–

With regards to the air divers watch (200m water resistant watch)

Special features

Locking resister ring
The resister ring, which is indespensible for checking diving time, is equipped with a locking mechanism that prevents it from being turned back accidentally.

⚠ WARNING Water resistance

• This watch is a scuba diver's watch (water-resistant to 200m). You can use it for scuba diving with air tanks, but must not be used in a helium-enriched atmosphere (e.g. saturation diving).

Maintaining water-resistance
• In order to maintain water-resistance, take your watch to the shop where you bought it or send it back to the Citizen Consumer Help Desk, Customer Support Center once every two or three years for inspection (charged), and as required, for replacement of parts such as packing, glass and crown.
• Always set the crown in the normal position.

Indication		Specification	Water-related use					
Dial	Watch dial and Case back		Minor exposure to water (washing face, rain, etc.)	Swimming and general washing work	Skin diving, marine sports	Scuba diving using an air tank	Saturated diving (helium gass)	Operate the crown or button when the watch is wet
(AIR) DIVER'S 200m	WATER RESIST(ANT)	200m water resistant watch	○	○	○	○	×	×

⚠ CAUTION Precautions to be take when diving

【Before diving】
• Make sure that the crown is pushed all the way in and locked in place.
• Make sure that the band is firmly anchored to the watch body.
• Make sure that there are no cracks or other damage to the watch band or the glass face. Damage to the band may result in the band breaking and loss of the watch.
• Make sure that the register ring rotates properly.
• Make sure that the time and date are correctly set.
• Make sure that the second hand is moving correctly.

【During diving】
• During diving, never operate the crown. Operating any of them in water may cause trouble including deterioration of water resistance.
• Be careful not to hit the watch against hard objects such as equipment or rocks.

【After diving】
• After making sure that the crown is locked in place, make sure the watch is free of seawater, mud and sand using fresh water. Wipe completely with a dry cloth.

⃠ PROHIBITED Do not using this watch while diving when...

Do not use your watch while diving when the following occur.
• The insufficient recharging warning feature is activated. As the battery approaches the end of its life, the second hand begins to move in 2 second increments. (When this happens, expose the watch to light so that it recharges and the second hand returns to normal movement.)
• The watch stops or exhibits any abnormal operation.

⚠ CAUTION Diving with the watch

• Persons using the diver's watch are strongly recommended to receive proper instruction and training pertaining to diving and observe those rules at all times.
• Please use this watch properly only after you fully understand the operating procedures and cautions.
Using this watch other than as indicated in this instruction manual may result in failure of the watch to function properly.

⚠ CAUTION To Avoid Injury

• Be particularly careful when wearing your watch while holding a small child, to avoid injury.
• Be particularly careful when engaged in strenuous exercise or work, to avoid injury to yourself and others.
• Do NOT wear your watch while in a sauna or other location where your watch may become excessively hot, since there is the risk of burns.
• Be careful when putting on and taking off your watch, since there is a risk of damaging your fingernails, depending on the manner in which the band is fastened.
• Take off your watch before going to bed.

⚠ CAUTION Precautions

• Always use the watch with the crown pushed in (normal position). If the crown is of the screw lock-type, make sure it is securely locked.
• Do NOT operate the crown or any push buttons when the watch is wet. Water may enter the watch causing damage to vital components.
• If water enters the watch or the watch fogs up and does not clear up even after a long time, consult your dealer or Authorized Service Center for inspection and/or repair.
• Even if your watch has a high level of water resistance, please be careful of the following.
- If your watch is immersed in sea water, rinse thoroughly with fresh water and wipe with a dry cloth.
- Do not pour water from a tap directly onto your watch.
- Take off your watch before taking a bath.
• If seawater enters the watch, place the watch in a box or plastic bag and immediately take it in for repair. Otherwise, pressure inside the watch will increase, and parts (crystal, crown, push button, etc.) may come off.

⚠ CAUTION When Wearing Your Watch

<Band>
· Leather, genuine skin and rubber (urethane) bands will deteriorate over time due to perspiration, body oils and dirt. Be sure to replace the band periodically.
· The durability of a leather band may be affected when wet (fading, peeling of adhesive), owing to the properties of the material. Moreover, wet leather may cause a rash.
· It is recommended to take off the watch if it gets wet, even if the watch itself is water resistant.
· Do not wear the band too tightly. Try to leave enough space between the band and your skin to allow adequate ventilation.
· The rubber (urethane) band may be stained by dyes or soil present in or on clothing or other accessories. Since these stains may not be removable, caution is required when wearing your watch with items that tend to easily transfer color (articles of clothing, purses, etc.). In addition, the band may be deteriorated by solvents or moisture in the air. Replace with a new one when it has lost elasticity or become cracked.
· Please request adjustment or repair of the band in the following cases:
- You notice an abnormality with the band due to corrosion.
- The pin of the band is protruding.
· We recommend seeking the assistance of an experienced watch technician for sizing of your watch. If adjustment is not done correctly, the bracelet may unexpectedly become detached leading to loss of your watch or injury. Consult an authorized service center.

<Temperature>
· The watch may stop or the function of the watch may be impaired in extremely high or low temperature. Do not use the watch in places where the temperature is outside the operating temperature range as stated in the specifications.

<Magnetism>
· Analog quartz watches are powered by a step motor that uses a magnet. Subjecting the watch to strong magnetism from the outside can cause the motor to operate improperly and prevent the watch from keeping time accurately. Do not allow the watch to come into close proximity to magnetic health devices (magnetic necklaces, magnetic elastic bands, etc.) or the magnets used in the latches of refrigerator doors, clasps used in handbags, the speaker of a cell phone, electromagnetic cooking devices and so on.

<Strong Shock>
· Avoid dropping the watch or subjecting it to other strong impact. It may cause malfunctions and/ or performance deterioration as well as damage to the case and bracelet.

<Static Electricity>
· The integrated circuits (IC) used in quartz watches are sensitive to static electricity. Please note that the watch may operate erratically or not at all if exposed to intense static electricity.

<Chemicals, Corrosive Gasses and Mercury>
· If paint thinner, benzene or other solvents or products containing these solvents (including gasoline, nail-polish remover, cresol, bathroom cleaners and adhesives, water repellent, etc.) are allowed to come into contact with the watch, they may discolor, dissolve or crack the materials. Be careful when handling these chemicals. Contact with mercury such as that used in thermometers may also cause discoloration of the band and case.

<Protective Stickers>
· Be sure to remove any protective stickers that may be on your watch (case back, band, clasp, etc.). Otherwise, perspiration or moisture may enter the gaps between the protective stickers and the parts, which may result in a skin rash and/or corrosion of the metal parts.

⚠ CAUTION Always Keep Your Watch Clean

· Rotate the crown while it is pressed in fully and press the buttons periodically so they do not become stuck due to accumulations of foreign matter.
· The case and band of the watch come into direct contact with the skin in the same manner as undergarments. Corrosion of the metal or unnoticed soiling such as that caused by perspiration and dirt can soil sleeves and other portions of clothing. Keep your watch clean at all times.
· The case and band of the watch come into direct contact with the skin. If you think there is something wrong, discontinue wearing the watch immediately and consult your physician. In the case of accumulation of sweat or dirt on a metal band or case, clean thoroughly using a brush and neutral detergent. In the case of a leather band, wipe clean using a dry cloth.
· Leather bands may become discolored by perspiration or dirt. Always keep your leather band clean by wiping with a dry cloth.

Caring for Your Watch

· Wipe any dirt or moisture such as perspiration from the case and crystal with a soft cloth.
· For a metallic, plastic or rubber (urethane) watchband, wash any dirt off with water. Remove the small amounts of dirt trapped between the crevices of the metallic band with a soft brush.
· For a leather band, wipe off dirt using a dry cloth.
· If you will not be using your watch for an extended period of time, carefully wipe off any perspiration, dirt or moisture and store in a proper location, avoiding locations subject to excessively high or low temperatures and high humidity.

<When Luminous Paint is used for your watch>
The paint on the dial and hands helps you with reading the time in a dark place. The luminous paint stores light (daylight or artificial light) and glows in a dark place. It is free from any radioactive substance or any other material harmful to a human body or environment.
• The light emission gradually becomes weaker as time passes.
• The duration of the light ("glow") will vary depending on the brightness, types of and distance from a light source, exposure time, and the amount of the paint.
• The paint may not glow and/or may dissipate quickly if exposure to light was not sufficient.

Warranty and Service

<Free Guarantee>
In the case a malfunction has occurred during the course of normal use while the watch is till under warranty, the watch will be repaired free of charge in accordance with the conditions of the warranty included with this manual.

<Stock Period of Repair Parts>
Our standard period for stocking repair parts for each model is generally seven years. When an exterior part such as the watch case, glass, dial, hand, crown or band is damaged, a spare part with different appearance may sometimes be used.

<Repair Period>
Repairs can be performed on your watch within the repair parts stock period even after the free guarantee has expired. However, you will be charged for these repairs. Please take the watch to the shop where you purchased it and ask whether it can be repaired because the repair period varies according to the conditions of use, environment and so forth. Moreover, there are cases in which it is difficult to restore the watch to its original accuracy when decreased accuracy has resulted from long-term use.

<Change of Address or Receiving as a Gift>
In the event that you have moved or have received your watch as a gift, and are not able to bring your watch to the shop where it was purchased for serving, please consult an authorized service center.

<Periodic Inspection (Charge Basis)>
• Water resistance
As the water resistance will be reduced over time, you should have your watch inspected and its water resistance verified every 2-3 years (charge basis) to extend its life and ensure safety. To maintain its water resistance, it is recommended to request us to replace the packings and other parts of your watch.
• Disassembling for internal cleaning (repair)
You should have your watch disassembled and its internal components cleaned periodically to extend its life. Lubrication oils are used to reduce wearing of moving parts such as gears. However, over time the lubrication oils will degrade and wear will increase, eventually resulting in malfunction. Please have your watch undergo internal cleaning once every 5 years as a guide.

<Request to Customers>
All parts of this watch, except for the band, are to be repaired only at CITIZEN.
This is because special technologies and equipment are required to perform repairs, inspections and adjustments.
Please make requests for repairs to an authorized service center when having your watch repaired.

<Other Inquiries>
If you have any questions regarding the way warranty, repairs or other matters, please inquire at the shop where you purchased your watch or an authorized service center.