

# 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.

## Safety precautions (IMPORTANT)

This manual contains instructions that should be strictly followed at all times not only for optimal use, but to prevent any injuries to yourself, other persons or property.

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

	<b>DANGER</b>	Highly likely to cause death or serious injury.
	<b>WARNING</b>	Can cause serious injury or death.
	<b>CAUTION</b>	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.

## Specifications

Cal. No.:	B872, B873, E068, E168
Type:	Analog Quartz Watch with 3 Hands
Time accuracy:	Within ±15sec/month (within a normal temperature range of +5°C to +35°C)
Quartz oscillator frequency:	32,768Hz
IC:	C/MOS-LSI (1 pc.)
Operational temperature range:	-10°C to +60°C
Display functions:	Time: hour, minute, second Date: date
Additional functions:	<ul style="list-style-type: none"> <li>Insufficient charge warning</li> <li>Quick start</li> <li>Time setting warning (Only for Cal. B87*)</li> <li>Overcharge prevention</li> </ul>
Operation time:	Approx. 6 months (from full recharge to stop) Time from insufficient charge warning to watch stopping: About 3 to 4 days
Battery:	Rechargeable cell (lithium button cell), 1pc

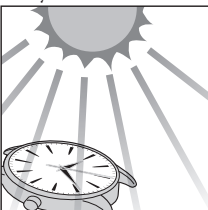
\*Specifications are subject to change without prior notice.

## Notes Before Use

### Charging your watch

This watch has a rechargeable cell which is charged by exposing the dial to light, such as direct sunlight or fluorescent lamps. After taking off the watch, put it in a location where the dial is exposed to bright light, such as by a window. The watch can be charged effectively when the dial is exposed to sunlight as shown in the figure. For optimal performance, be sure to:

- Charge the watch by exposing it to direct sunlight for five to six hours at least once a month.
- Avoid leaving the watch in a dark place for long periods of time.



- If the watch is obscured from light by long sleeves frequently, supplemental charging may be needed to ensure continual operation.
- Do not charge the watch at high temperature (about 60°C / 140°F or higher).

### 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.

### 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.

	<b>Unlock</b>	<b>Lock</b>
<b>Screw down crown</b>	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.

## Your Watch

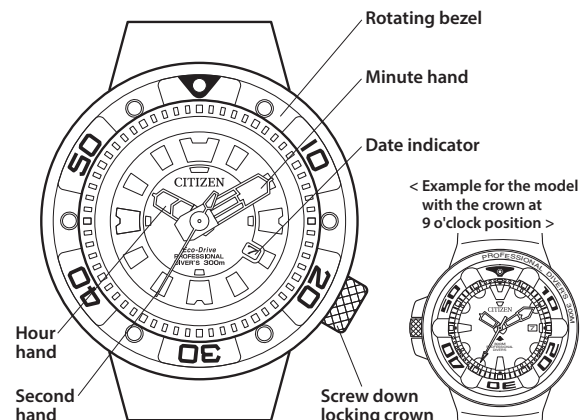
This watch is a diver's watch designed to withstand depths down to 300 m (water pressure equivalent to 30 atm).

- Rotating Bezel with Reverse Rotation Prevention Mechanism to Prevent Incorrect Operation**
  - The rotating bezel, which is important for checking diving time, employs a reverse rotation prevention mechanism that prevents the rotating bezel from being rotated inadvertently.
- Screw down locking Crown**
  - The screw down locking crown can be securely locked in position through the use of a screw-locking mechanism.

### Eco-Drive watch

The watch operates by converting sunlight and other light into electrical energy. Once the rechargeable cell is fully charged, the watch will function for approximately 6 months.

## Names of Components



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

## Using the Rotating Bezel

The rotating bezel can be used as a reference for elapsed time during diving or for the amount of time remaining relative to a predetermined amount of time.

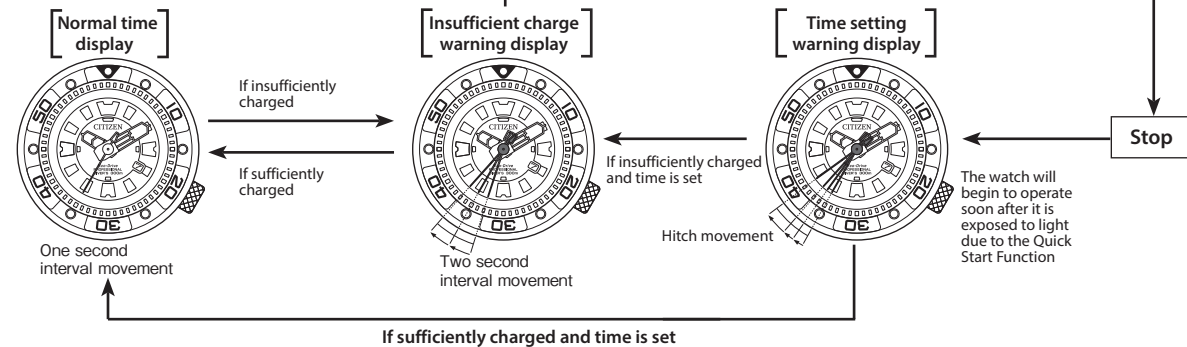
**[Setting the Rotating Bezel]**  
Only turn the rotating bezel to the left. It cannot be rotated in the opposite direction (to the right) to prevent the risk of incorrect operation.

**Determination of Elapsed Time**  
Align the ▼ mark on the rotating bezel with the minute hand. After a certain amount of time has elapsed, the elapsed time can be determined from the scale on the rotating bezel.

**Determination of Remaining Time**  
The remaining time can be determined by aligning the ▼ mark on the rotating bezel with the target time.

## Unique Functions of Eco-Drive Watches

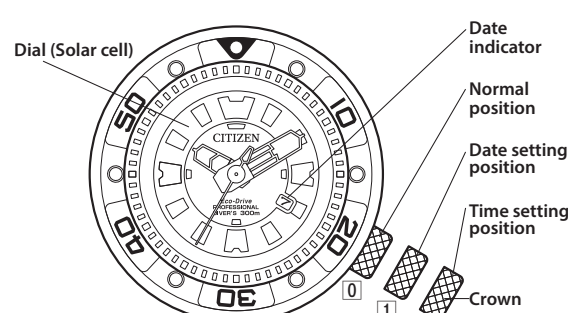
If the charge becomes insufficient, a warning function will operate and the display changes as shown below.



**Insufficient Charge Warning Function**  
The second hand changes to a two second interval movement to indicate insufficient recharging. Even in such a case, the watch keeps correct time, but about 3 to 4 days after the two second interval movement begins, the watch will stop. After exposing the watch to light, recharging takes place and the watch returns to one second interval movement.

**Quick Start Function**  
The watch will stop if it is completely discharged. When the watch is exposed to light, the watch hands will start to move after about 10 seconds. However, note that if the light is blocked at this time, the watch will stop again because it has not been sufficiently recharged.

## Setting the Time and Calendar



**Setting the time**

- Pull the crown out to the 2nd click. (The second hand stops when you pull the crown.)
- Turn the crown to set the time. The date changes at 0 a.m., so make sure that the a.m. or p.m. setting is correct.
- Set to the correct time and return the crown to the normal position. (The second hand starts to move when you push in the crown.)

**Setting the date**

- Pull the crown out to the 1st click.
- Set the desired date by turning the crown counterclockwise.
  - Turning the crown clockwise will result in the loose play of the crown.
- After you have set the date, be sure to firmly return the crown to its normal position.
  - The date changes at around 0 a.m.
  - Do not adjust the date when the watch display is reading between 9:00 pm and 1:00 a.m, otherwise the date might not change on the following day.
  - The date has a 31-day cycle. Re-set the correct date at the start of March, May, July, October and December.

## Charging Time by Environment

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 to 3 minutes	18 to 36 minutes	9 to 12 hours
Outdoors (cloudy)	10,000	10 to 12 minutes	2 to 3 hours	33 to 45 hours
20 cm (8 inches) from a fluorescent lamp (30W)	3,000	30 to 40 minutes	7 to 8 hours	105 to 150 hours
Interior lighting	500	3 to 4 hours	44 to 60 hours	---

### CAUTION To Avoid Injury

## Eco-Drive watch handling precautions

**<Always Make Sure to Recharge Frequently>**

- Please note that if you wear long sleeves, the watch may stop as a result of being covered by your sleeve and blocked from the light.
- When you take off the watch, try to place it in as bright a location as possible. This will ensure optimal operation.

### CAUTION Recharging Precautions

- Do not charge the watch at a high temperature (about 60°C / 140°F 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 amount of heat such as an incandescent lamp or halogen lamp.
    - When charging under an incandescent lamp, be sure to leave 50 cm (19-11/16 inch) 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.



## Precautionary Items and Usage Limitations

### CAUTION When Using for Diving

- When using a diver's watch, please make sure that you have received the proper education and training for various types of diving, and observe all rules.
- Please make sure to use the watch properly based on a thorough understanding of watch handling and precautions. Please note that failure to operate the watch in a manner not described in the user's manual may prevent the watch from functioning properly.

### PROHIBITED Situations where use while diving is prohibited diving

- 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.

### WARNING Water Resistance

- This divers watch is designed to withstand diving to a depth of 300 m (water pressure equivalent to 30 atm). It can be used for saturation diving using helium gas.

Indication	Water-related use					
	Specification	Water-related use				
Dial or Case back						
PROFESSIONAL DIVER'S 300m	Water-resistant to 300M	OK	OK	OK	OK	NO

**<Replacement of Rechargeable Cell>**

- This watch utilizes a special rechargeable cell that does not require regular replacement. However power consumption may increase after using the watch for a number of years due to wear of internal components and deterioration of oils. This may cause stored power to be depleted at a faster rate. For optimal performance, we recommend having your watch inspected (chargeable to the owner) by an authorized service center to ensure operation is within factory specifications.

### WARNING 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.

### WARNING 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.

### CAUTION Precautions when diving

**<Before Diving>**

- Please make sure that the crown is pushed in firmly and the screw is securely tightened.
- Please check that the band is securely attached to the watch.
- Please confirm that there are no cracks, scratches, chips or other abnormalities in the band and glass.
- Please check that the rotating bezel rotates properly.
- Please check that the time is set correctly.
- Please check that the second hand is moving properly.

- <During Diving>**
  - Never attempt to turn or pull out the crown underwater. This can cause defective water resistance or other malfunction.
  - Be careful to avoid bumping your watch on hard objects such as diving equipment or rocks.
- <After Diving>**
  - Completely wash off any sea water, mud or sand adhered to the watch with pure water after checking that the crown and screw are tightened. Wipe off any excess moisture with a dry cloth.

### WARNING Water Resistance

- Refer to the watch dial and the case back for the indication of the water resistance of your watch. The following chart provides examples of use for reference to ensure that your watch is used properly. (The unit "bar" is roughly equal to 1 atmosphere.)

**<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 Gases 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 still 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.

**<Repairing the watch>**  
All repairs performed on this watch are to be performed at the CITIZEN. When desiring to have your watch repaired or inspected, please contact an authorized service center either directly or through the store where you purchased your watch.

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