

# CITIZEN®

## INSTRUCTION MANUAL



***Eco-Drive®***



ENGLISH

FRANÇAIS

ESPAÑOL

DEUTSCH

ITALIANO

PORTUGUÊS

中文(繁体字)

中文(简体字)

日本語

Thank you for your purchase of this Citizen watch.

Before using the watch, read this instruction manual carefully to ensure correct use.

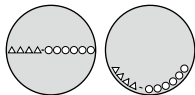
After reading the manual, store it in a safe place for future reference.

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 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. We encourage you to read the entire booklet (especially, pages 20 to 31) and understand the meaning of the following symbols:

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

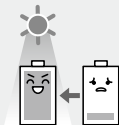
 <b>DANGER</b>	Highly likely to cause death or serious injury
 <b>WARNING</b>	Can cause serious injury or death
 <b>CAUTION</b>	Can or will cause minor or moderate injury or damage

**Safety precautions (IMPORTANT)**

- 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.

## Before using this watch



**This watch has a rechargeable cell which is charged by exposing the dial to light.**

Expose the dial to light regularly to charge the watch.  
For details of charging, see pages 10 to 13.

## ■ 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 do not recommend attempting to adjust the watch band yourself. If not adjusted correctly, the band may become detached leading to an injury or loss of your watch. (Some retailers may supply a band adjustment tool with your purchase).

For band adjustment, we recommend you consult the retailer where the watch was purchased or your nearest Authorized Citizen Service Center. Some repair shops may charge a nominal fee for adjustment if the watch was not purchased directly from them.

## Before using this watch



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### ■ 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
<b>Screw down crown</b>	 <p>Rotate the crown counterclockwise until it releases from the case.</p>	 <p>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.</p>



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# Features

This watch includes the following features:

## **Eco-drive**

No need for periodical changing of rechargeable cells. The watch is charged by light.

## **Quick start function**

When the stopped watch is exposed to light, it starts operating again immediately.

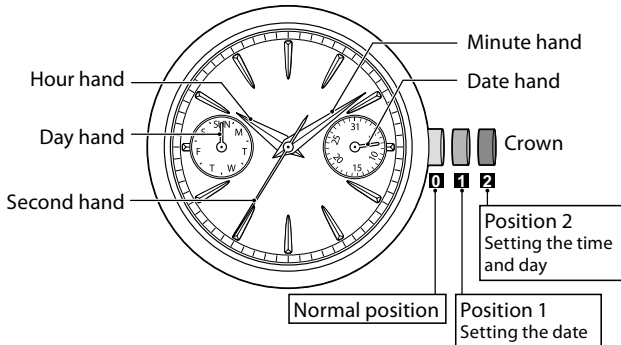
## **Insufficient charge warning function**

When the watch reaches a low charge state, the second hand begins to move in two-second increments.

## **Overcharging prevention function**

When the battery is fully charged, the overcharge protection function stops the charging so that the watch performance and rechargeable cell are not adversely affected by overcharge.

# Component identification



\* The illustrations may differ from the actual watch you have purchased.

\* A solar cell is placed under the dial.

## Charging your watch

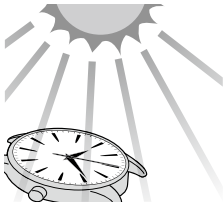
This watch has a rechargeable cell which is charged by exposing the dial to light, such as direct sunlight or fluorescent lamps.

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.



## Charging your watch

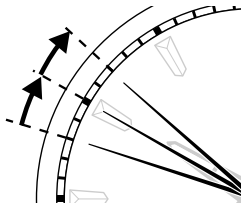
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- If the watch is obscured from light by long sleeves frequently, supplemental charging may be needed to ensure continual operation.
- Do not charge the watch at high temperature (about 60°C/140°F or higher).

### ■ When the watch reaches a low charge state (insufficient charge warning function)

When the watch reaches a low charge state, the insufficient charge warning function kicks in, and the second hand begins to move in two-second increments (two-second mode). Charge the watch by exposing its dial to light.

- After some time of charging, the second hand will begin to move in onesecond increments (normal mode).
- If the watch is left in two-second mode for four days or longer, the watch will run out of power and stop working.
- The time and date are indicated even during two-second mode.
- Make sure that the watch is charged and moving in one-second increments (normal mode) before setting or adjusting the watch.



## ■ 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	3 minutes	1 hour	14 hours
Outdoors (cloudy)	10,000	15 minutes	7.5 hours	60 hours
20 cm (7-7/8 inches) from a fluorescent lamp (30W)	3,000	50 minutes	25 hours	180 hours
Interior lighting	500	5.5 hours	190 hours	—

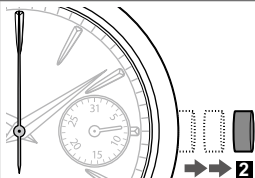
- When the battery is fully charged, the overcharge protection function stops the charging so that the watch performance and rechargeable cell are not adversely affected by overcharge.

Your watch will run for approximately 6 months from a full charge.

After the second hand starts moving once every two seconds, it will last for approximately 4 days.

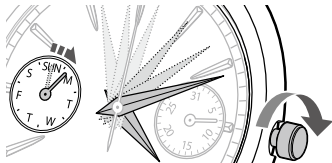
# Setting the time and day

## Pull out the crown



With the second hand in the 0-second position, pull the crown out two 'steps' to position **2**.

## Set the day



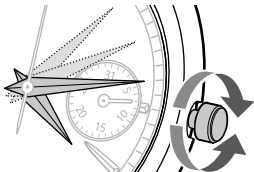
**Rotate the crown to the right (clockwise) to set the day.**

(The day hand moves when the hour hand is indicating between 0 a.m. and 5 a.m.)

\* The day hand advances together with the hour hand and minute hand, so set the day first, and then set the time.

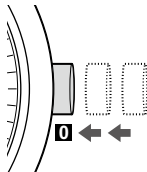


## Set the time



**Rotate the crown to set the time, paying attention to a.m. and p.m.**

## Return the crown

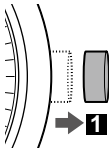


**Return the crown to the normal position 0 in sync with a reliable time source.**

- \* The day hand moves when the hour hand is indicating between 0 a.m. and 5 a.m. Pay attention to a.m. and p.m. when setting the time.
- \* Advance the minute hand by 4 or 5 minutes past the correct time, and then return it to the correct time in order to set the time more accurately.

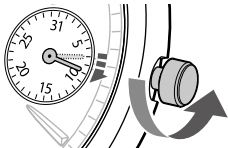
## Setting the date

### Pull out the crown



**Pull the crown out one 'step' to position **1**.**

### Set the date

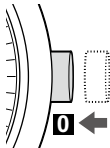


**Rotate the crown to the left (counterclockwise) to set the date.**

(The date does not change when you rotate the crown to the right (clockwise).)

## Setting the date

### Return the crown



Return the crown to the normal position **0**.

- \* Do not change the date while the hour hand is indicating between 9 p.m. and 1 a.m. If you change the date during this time, the date may not change 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.

# Troubleshooting

If you have a problem with your watch, check the table below.

Problem	Cause and remedy
The second hand moves at 2-second intervals.	The charge is insufficient. ➡ Charge the watch until the second hand moves at 1-second intervals (p.10 to 13).
The watch has stopped.	
The day and date change around noon.	The a.m. and p.m. are reversed. ➡ Set the correct time (a.m. or p.m.), paying attention to the time period when the day hand moves (p.14 to 15).

Problem	Cause and remedy
The second hand does not move at 1-second intervals, even when the watch is charged.	➔ Contact your dealer or your nearest Authorized Citizen Service Center.
The watch does not operate even when charged.	
The watch stops soon even when charged.	

## **Eco-Drive (solar powered) 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.

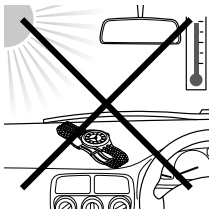
## Eco-Drive (solar powered) watch handling precautions

### **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.



## Eco-Drive (solar powered) watch handling precautions

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### <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.



## Eco-Drive (solar powered) watch handling precautions

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### **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.

# Water resistance



## 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 “1bar” is roughly equal to 1 atmosphere.)
- WATER RESIST(ANT) ××bar may also be indicated as W.R.××bar.
- Non-water resistant models are not designed to come into contact with any moisture. Take care not to expose a watch with this rating to any type of moisture.

Name	Indication	Specification
	Dial or Case back	
Non-water resistant watch	—	Non-water resistant
Everyday-use water resistant watch	WATER RESIST(ANT)	Water resistant to 3 atmospheres
Upgraded everyday-use water resistant watch	WATER RESIST(ANT) 5 bar	Water resistant to 5 atmospheres
	WATER RESIST(ANT) 10/20 bar	Water resistant to 10 or 20 atmospheres

## Water resistance

- Water resistance for daily use (to 3 atmospheres) means the watch is water resistant for occasional accidental splashing.
- Upgraded water resistance for daily use (to 5 atmospheres) means that the watch may be worn while swimming, but is not to worn while skin diving.
- Upgraded water resistance for daily use (to 10/20 atmospheres) means that the watch may be worn while skin diving, but not while scuba or saturated diving using helium gas.

Water-related use				
				
Minor exposure to water (washing face, rain, etc.)	Swimming and general washing work	Skin diving, marine sports	Scuba diving using an air tank	Operate the crown or button when the watch is wet
NO	NO	NO	NO	NO
OK	NO	NO	NO	NO
OK	OK	NO	NO	NO
OK	OK	OK	NO	NO

## Precautionary items and usage limitations



### **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.

## Precautionary items and usage limitations

- 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.

## Precautionary items and usage limitations

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- 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 do not recommend attempting to adjust the watch band yourself. Special expertise and experience is required for proper adjustment. If not adjusted correctly, the band may become detached leading to loss of your watch. (Some retailers may supply a band adjustment tool with your purchase).

For band adjustment, we recommend you consult the retailer from where the watch was purchased or your nearest Authorized Citizen Service Center. Some repair shops may charge a nominal fee for adjustment if the watch was not purchased directly from them.

### <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.

## Precautionary items and usage limitations

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### <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 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.

## Precautionary items and usage limitations

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### <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.



## Precautionary items and usage limitations

### 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.

## Specifications

<b>Model</b>	8676
<b>Type</b>	Analog solar powered watch
<b>Timekeeping accuracy</b>	Average monthly deviation: $\pm 15$ seconds (When used at normal temperature (+5°C to +35°C / +41°F to +95°F) )
<b>Operating temperature range</b>	-10°C to +60°C/+14°F to +140°F
<b>Display functions</b>	Time: Hour, minute and second Calendar: date, day
<b>Operation times</b>	<ul style="list-style-type: none"><li>• Fully charged to fully discharged: Approx. 6 months</li><li>• Power reserve upon insufficient charge warning function: Approximately 4 days</li></ul>
<b>Battery</b>	Rechargeable cell (lithium button cell), 1pc.

<b>Additional functions</b>	<ul style="list-style-type: none"><li>• Calendar function</li><li>• Insufficient charge warning function (second hand 2-second movement interval)</li><li>• Quick start function</li><li>• Overcharging prevention function</li></ul>
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\* They are subject to change without notice for improvement.

Model No.AO9 \*

Cal.8676

CTZ-B8166