

# CITIZEN®

## INSTRUCTION MANUAL



***Eco-Drive***®

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.

Be sure to visit the Citizen website at <http://www.citizenwatch-global.com/>.

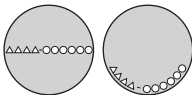
Here you will find a variety of information such as electronic setting guides, answers to frequently asked questions, Eco-Drive recharging information and more.

### 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



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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 **24** to **37**) 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

- Important instructions are categorized and depicted in this manual as follows:  
(Following symbols are examples of Pictograms.)

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

## Features

- **±1-second yearly time accuracy**  
±1-second yearly accuracy is realized on this watch.
- **Eco-Drive**  
No periodical battery replacement is needed. This watch is fueled by light.
- **Time difference setting function**  
When going abroad, you can easily adjust the time to the local one without stopping the watch.

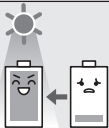
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## Before using this watch



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

Expose the dial to direct sunlight regularly to charge the watch. For details of charging, see page **14** -.

### 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.





## **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.

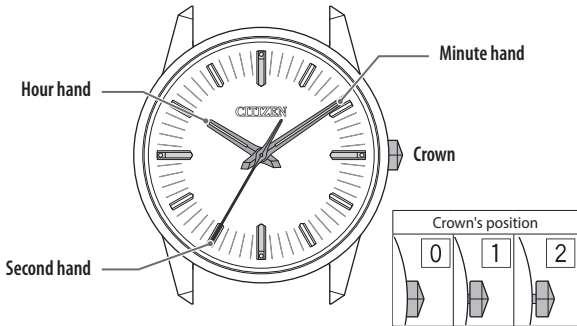
## How to use the screw-down crown

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

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>

## Component identification



- The illustrations in this instruction manual may differ from the actual appearance of your watch.
- A solar cell is placed under the dial.

## “ $\pm 1$ -second yearly accuracy”

This watch keeps  $\pm 1$ -second yearly accuracy, that is, its time goes forward or backward within 1 second from correct time in a year. This means that the watch has much higher time accuracy than most popular quartz watches ( $\pm 15$ -second monthly accuracy).

### ■ Meaning of “ $\pm 1$ -second yearly accuracy”

“ $\pm 1$ -second yearly difference from the correct time” does not mean that the difference is simple accumulation of very small difference of every day. In other words,  $\pm 1$ -second yearly accuracy does not mean  $\pm 1/365$ -second daily accuracy. Accuracy of a watch minutely varies every moment depending on conditions of use and change of environment. The variation is corrected through periodical adjustment ceaselessly to keep the difference within 1 second whole a year. That is the meaning of “ $\pm 1$ -second yearly accuracy”.

## **■ To keep time accuracy high**

It is variation of temperature that the most influential element on time accuracy of quartz watches all through the everyday life.

To hold down the influence of variation of environmental temperature to minimum and keep  $\pm 1$ -second yearly accuracy, this watch executes correction against the variation every 1 minute.

However, the influence may go beyond capacity of correction and time difference may exceed 1 second when the watch is used in an extreme temperature environment or exposed to big change of temperature.

Please take care of the things below when you use a watch:

- Take care of conditions of use of the watch and variation of environmental temperature.
- Do not apply strong shock to the watch.
- Adjust the watch correctly.

In addition, periodical maintenance is recommended.

## Precautions for comfortable use

Take care of the things below to keep the high time accuracy of this watch.

- **Wear the watch about 12 hours a day.**
- **Keep stable temperature environment (+5°C (41°F) - +40°C (95°F)) both while wearing and while storing it.**
- **Charge the watch every day even if charging time is short not to make the insufficient charge warning function active.**

Sufficient power reserve can be kept with 12-hour use if you expose the watch on your wrist to light consciously.

Wear it as long as you can.

## Charging your watch

This watch has a solar cell under the dial and stores the power generated by the cell in its built-in rechargeable cell.

It is charged when the dial is exposed to light.

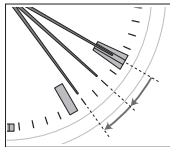
For optimal performance, be sure to:

- **Take care to expose the watch to light when wearing it.**
- **Charge the watch under an environment of normal operation temperature (+5°C (41°F) - +40°C (95°F)) even when not wearing it (Take care not to leave it in a cold place or others with extreme environmental conditions).**
- The watch stops charging automatically after finishing (overcharging prevention function). The function prevents damage to performance of the watch and rechargeable cell due to overcharging.

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

When the power reserve becomes low, the second hand moves once every two seconds. This is the insufficient charge warning function. Be sure to fully charge your watch immediately as outlined on page 16 .

- When the watch is sufficiently charged, the second hand will move normally.
- If you do not charge the watch for 2 days or longer after the insufficient charge warning movement has begun, the watch will be depleted of all power and stop.



### ***During the insufficient charge warning state***

The watch cannot keep its time accuracy with its full performance.



### Charging time by environment



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

- **Time accuracy of this watch is affected by environmental temperature. Take care of conditions and environment of use.**

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 (cloudy)	10,000	12 minutes	2 hours	50 hours
20 cm (7-7/8 inches) away from a fluorescent lamp (30W)	3,000	40 minutes	4.5 hours	120 hours
70 cm (20-1/2 inches) away from a fluorescent lamp (30W)	1,000	2 hours	12 hours	–
Interior lighting	500	4 hours	25 hours	–

**Power save function**

All hands stop automatically to save power as 7 days passed after starting to keep the watch in a dark place such as in a case.

- The watch keeps its accuracy while saving power as long as it is under normal operating temperature (+5°C (41°F) - +40°C (95°F)).
- The power save function is not activated when the position of the crown is  or .
- The power save status ends and the hands return to indicate the current time as the watch is operated or the dial is exposed to light and power generation starts.

***Duration without additional charging after charging the watch fully***

About 6 months in normal use.

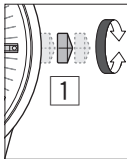
- The watch will keep running internally for up to 8 months with the power save function.

## Setting the time difference

You can move the hour hand in the 1-hour increments to indicate a time of another place.

- Pulling the crown out to position **2** will stop the second and minute hands as well as the hour hand.

Take care when operating the crown.



- 1 Pull the crown out to position **1**.**

The second hand does not stop.

- 2 Rotate the crown to set the hour hand to the time of the place you want.**

- 3 Push the crown in to position **0**.**

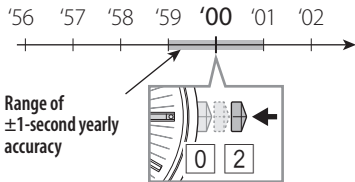
## Setting the time

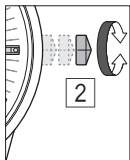
### *Before setting the time*

This watch keeps small incorrectness coming up during time setting for a long time as going back or forward of the time on the watch.

Refer to the time information on the Internet to set time correctly.

Ex.: Timing when setting 00 seconds (step 3 of setting the time)



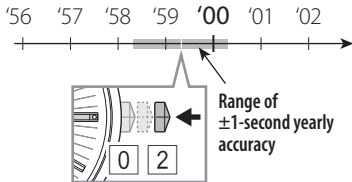


- 1** Pull the crown out to position **2** when the small second hand points 0 second.
- 2** Rotate the crown to set the time.
- 3** Push the crown in to position **0** in accordance with the moment when the second comes to 00.

The watch starts moving with  $\pm 1$ -second time accuracy.


### ***When you could not set to just 00 seconds***

The watch keeps the setting incorrectness and may appear to move with 1 second or more difference.



# Troubleshooting

Symptom	Remedies	Page
<b>The time is incorrect.</b>		
The watch does not keep $\pm 1$ -second time accuracy.	Charge the watch. The watch cannot keep its time accuracy with its full performance during the insufficient charge warning state.	<b>14</b>
	Refer to the time information on the Internet and set the time correctly.	—
	Set the watch correctly. Small incorrectness of the pushing-in timing of the crown is kept and results in going back or forward of the watch.	<b>20</b>
<b>Movement of a hand seems strange</b>		
Only the hour indication of the watch is incorrect.	Adjust the hour hand only by using the time difference setting function.	<b>19</b>

Symptom	Remedies	Page
<b>Movement of a hand seems strange (continued)</b>		
The second hand moves once every two seconds.	Charge the watch.	14
The second hand does not move.	Push the crown in to position  .	—
	Charge the watch until movement of the second hand becomes normal.	16
	If the remedies above do not solve the problems, consult an authorized service center.	—
<b>Charging and other problems</b>		
The watch stops immediately after it is charged.	Continue charging even after the second hand starts moving normally. If no change can be seen, consult an authorized service center.	—



## Eco-Drive watch handling precautions

### <Always Make Sure to Recharge Frequently>

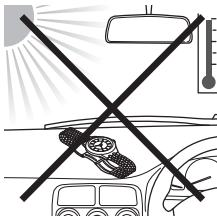
- For optimal performance, your watch should remain fully charged.
- Long sleeves may inhibit light transmission to your watch. This may result in your watch losing charge. In these cases supplemental charging may be necessary.
- When you take off the watch, place it in a bright location to ensure optimal performance.

**⚠ 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 (20 inches) 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.



### <Replacement of Rechargeable Cell>

- This watch utilizes a special rechargeable cell that does not require periodical 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.

### **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 conventional watch 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/or 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.

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

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	Saturation diving using helium gas	Operate the crown or button when the watch is wet
<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>
<b>OK</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>
<b>OK</b>	<b>OK</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>
<b>OK</b>	<b>OK</b>	<b>OK</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

## *Water resistance*

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- 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.
- 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.

## 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 (use the crown and/or buttons) the watch when it 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 an 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 bands and rubber (urethane) bands will deteriorate over time due to perspiration dirt. Because of the natural materials, leather band will be worn, deformed, and discolored over time. It is recommended 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.
- Do not stain a leather band with substances containing volatile materials, bleach, alcohol (including cosmetics). Discoloration and premature aging may be occurred. Ultraviolet light such as direct sunlight may cause discoloration or deformation.
- 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.

**⚠ CAUTION When Wearing Your Watch (continued)**

- 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 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. Corrosion of the metal or accumulated foreign matter may result in black residue coming from the bracelet when exposed to moisture or perspiration. Be sure to keep your watch clean at all times.
- Be sure to periodically clean the bracelet and case of your watch to remove accumulated dirt and foreign matter. In rare circumstances, accumulated dirt, foreign matter may cause irritation with the skin. If you notice this, discontinue wearing the watch and consult your physician.
- Be sure to periodically clean foreign matter and accumulated materials from the metal band, synthetic rubber strap (polyurethane) and/or metal case using a soft brush and mild soap. Be careful not to allow moisture on the case if your watch is not water resistant.
- 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 metallic, plastic or synthetic rubber (polyurethane) band, clean it with soap and a soft toothbrush. Be sure to thoroughly rinse the band after cleaning to remove any soap residue.
- 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 will appear bright at first and then diminish 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>	010*	<b>Type</b>	Analog solar-powered watch
<b>Timekeeping accuracy</b>	Yearly accuracy: $\pm 1$ second when worn at normal operating temperatures between $+5^{\circ}\text{C}$ ( $41^{\circ}\text{F}$ ) and $+40^{\circ}\text{C}$ ( $95^{\circ}\text{F}$ )		
<b>Operating temperature range</b>	$-5^{\circ}\text{C}$ ( $23^{\circ}\text{F}$ ) to $+60^{\circ}\text{C}$ ( $140^{\circ}\text{F}$ )		
<b>Display functions</b>	Hours, minutes, seconds		
<b>Duration</b>	After charged fully, the watch runs without additional charging: Approximately 6 months (When saving power: Approximately 8 months)		
	Power reserve upon insufficient charge warning function: Approximately 2 days		
<b>Battery</b>	Rechargeable cell (lithium button cell), 1pc.		

**Additional functions**

- Solar power function
- Overcharging prevention function
- Insufficient charge warning function (two-second interval movement)
- Time difference setting function
- Antimagnetic feature/  
Impact detection function/  
Automatic hand correction function

Specifications and contents of this booklet are subject to change without prior notice.



CE

Model No.AQ6\*

Cal.010\*

CTZ-B8203