

# CITIZEN®

## INSTRUCTION MANUAL





***Eco-Drive***®

## Safety Precautions: Observe at All Times

The following provides an explanation of those matters that should be observed at all times to prevent injury to the wearer or other persons as well as damage to property before they occur.

- The degree of injury or damage resulting from incorrect use while ignoring the indicated matters is classified and explained using the following markings.

 <b>WARNING</b>	This marking indicates matters for which there is the risk of death or serious injury.
 <b>CAUTION</b>	This marking indicates matters for which there is the risk of injury or property damage only.

- The types of matters to be observed are classified and explained using the following mark (the following indicates two examples of icons).



This mark indicates that caution or attention is required.



This mark indicates prohibited matters.



◆ **Eco-Drive**

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◆ **Quick Start Function**

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◆ **Insufficient Charge  
Warning Function**

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◆ **Overcharge  
Prevention Function**

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◆ **Chronograph**

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

## Product Features

This watch includes a rechargeable cell. This cell is fed electricity by a solar cell in which light energy is converted to electrical energy.

The watch operates by converting sunlight into electrical energy, which is stored in a rechargeable battery. The rechargeable battery is a clean energy source that does not contain mercury or other harmful substances. When the watch is fully charged, it will operate continuously for approximately seven months.

A watch that has stopped due to an insufficiently charged cell will start operating immediately when exposed to light.

Special hand movement to let you know when the reserve energy is getting low.

This protects the rechargeable cell from overcharging. This provides worry free enjoyment, not matter how much light your watch is subjected to.

This feature enables elapsed time measurement (stopwatch.) You can measure time in activities such as walking, jogging, bicycle riding, etc.

# Contents

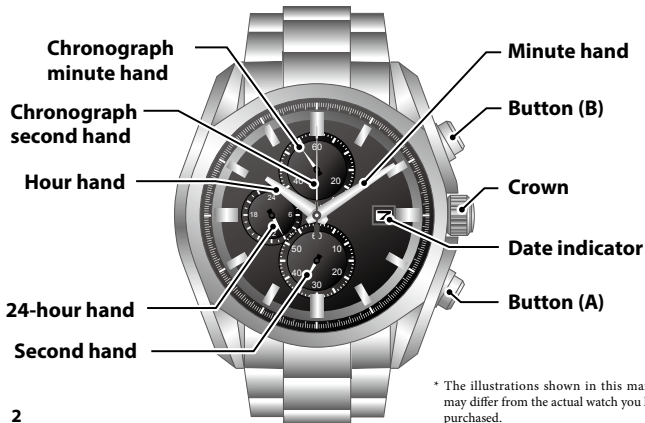
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## Troubleshooting

- The second hand is moving at two-second intervals. → P. 6
- The chronograph second hand does not return to reference position even when reset. → P.14
- The watch does not return to normal one-second interval movement even when charged.
- The watch does not operate even when charged.
- The watch stops immediately even when charged.
- The chronograph minute hand does not return to reference position even when reset.

**Submit your watch to your nearest Authorized Citizen Service Center.**

## Component identification









## How to use the screw down crown and screw down push button

Some models feature a screw down crown and/or screw down push button. Locking the crown and/or button prevents accidental operation.

These must be unlocked prior to using certain features of your watch such as setting the time or date.

	Unlock	Lock
<b>Screw down crown</b>	 <p>Rotate the crown counterclockwise (left) until it releases from the case.</p>	 <p>Rotate the crown clockwise (right) while pushing it in, and tighten firmly.</p>
<b>Screw down push button</b>	 <p>Rotate the locking screw counterclockwise (left), and loosen until it stops.</p>	 <p>Rotate the locking screw clockwise (right), and tighten firmly.</p>

\* Unlocking is not required when a standard crown and button are equipped.

## Recharging your watch

This watch uses a built-in rechargeable cell to store electrical energy. Charge the watch by exposing the dial to light such as direct sunlight or fluorescent lamps.

◆ **To ensure optimal operation, be sure to perform the following.**

- Charge the watch in direct sunlight (outdoors) once a month for 5 to 6 hours.
- When you take your watch off, be sure to place it in a location where the dial can receive light. An ideal location might be a window sill where it can receive direct sunlight.

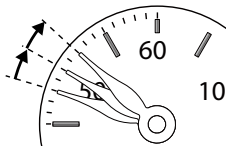


Wearing clothes that cover the watch may inhibit sufficient light from reaching the watch face, resulting in insufficient charging.

Avoid charging the watch under high temperature conditions (approximately 60°C/140°F or more).

## If the reserve power becomes insufficient (Insufficient Charge Warning Function)

When the rechargeable cell charge reaches a low power state, the Insufficient Charge Warning Function engages. This causes the second hand to move in two-second intervals (two-second interval movement). Be sure to immediately fully charge your timepiece by exposing it to light.



- Two-second interval movement continues for some seven days until the watch stops completely due to battery depletion.

### Caution

When the watch is operating in the two-second interval mode (low power/insufficient charge warning), you cannot operate chronograph.

## ◆ 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.

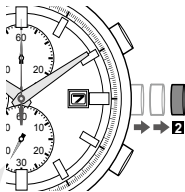
Environment	Illuminance (lx)	Charging time (approx.)		
		To work for one day	To start working normally when the cell is discharged	To become fully charged when the cell is discharged
Outdoors (sunny)	100,000	2 minutes	25 minutes	8.5 hours
Outdoors (cloudy)	10,000	11 minutes	3.5 hours	45 hours
20 cm (7-7/8 inches) from a fluorescent lamp (30W)	3,000	35 minutes	11 hours	150 hours
Interior lighting	500	3.5 hours	80 hours	—

- This watch will run for approximately 7 months from a **full charge** without further exposure to light.

## Setting the Time

1

**Pull the crown out to position 2.**



Pull out the crown just as the second hand is at the reference position in order to accurately align to the second.

2

**Rotate the crown to set the time.**

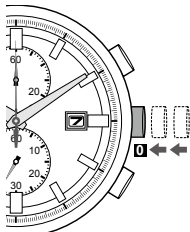
The 24-hour hand (located at the 9:00 subdial) moves in relation to the hour hand. Determine whether it is a.m. or p.m. by observing the 24-hour hand.



Move the minute hand ahead of the correct time by 5 "minutes" and then return the hand to the correct "minutes". This will minimize the effect of gear play and will provide more accurate hand movement.

**3**

**Press the crown back into its normal position.**

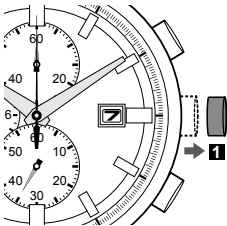


**Be sure to secure if the watch has a screw down crown.** Water may enter your watch.

## Setting the Date

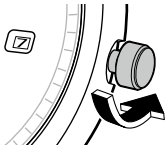
**1**

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



**2**

**Rotate the crown counterclockwise to set the date. The date will not change when the crown is rotated clockwise.**

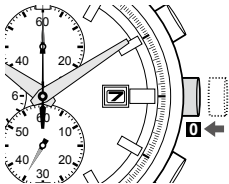


The date does not change when you rotate the crown to the right.



3

**Press the crown back into its normal position.**



**Be sure to secure if the watch has a screw down crown. Water may enter your watch.**

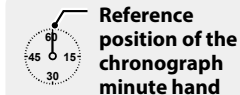
The date must be manually adjusted for months shorter than 31-days. **You will need to adjust the date at the start of March, May, July, October and December.**

**Do not adjust the date between 9 p.m. and 1 a.m.**  
If you change the date during this time, the date may not change the following day.

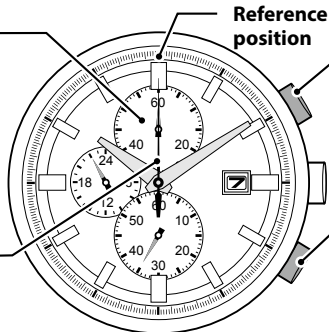
## Using the Chronograph

The chronograph second hand is normally placed at 12 o'clock position. Once the measurement starts, it can measure up to 60 minutes in units of 0.2 seconds.

**Chronograph minute hand**



**Chronograph second hand**



**Caution**

The chronograph minute/second hands may be come misaligned if the watch is subjected to a strong knock. If the position cannot be corrected by using the reset procedures outlined on pages 12-13, please contact your nearest Authorized Service Center.

**Time measurement start/stop**

- 1** To start the chronograph, press and release the upper right button (B) to commence time measurement.
- 2** To stop the chronograph, press and release the upper right button (B) again.
- 3** To recommence timing from the stopped position, press and release the upper right button (B) again.

**Reset**

To reset the chronograph after stopping time measurement, press and release the lower right button (A).

Pressing and releasing the lower right button (A) during chronograph operation will cause timing to stop and the chronograph to reset.

The chronograph does not function if the crown is pulled out to position 2. The chronograph resets if the crown is pulled out to position 2 during measurement.

## ◆ When the chronograph second hand does not return to the reference position

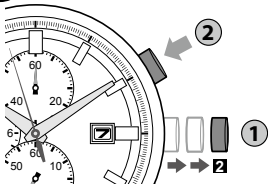
If the chronograph second hand does not return to reference position even when reset, perform the following procedures to align the chronograph second hand with the reference position.



Time is stopped while aligning with the reference position. Set the time after aligning.

**1**

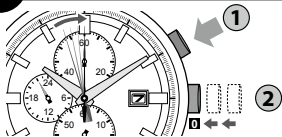
Set the watch to correct the reference position



**1** Pull the crown out to position 2.

**2** Press and hold the upper right button (B) for 3 seconds or more. The watch is now set to correct the reference position.

## 2 Correct the position of the second hand



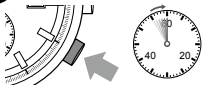
### 1 Press and release the upper right button (B) to adjust the position of the chronograph second hand.

- **Press once** → Second hand moves ahead one graduation at a time.
- **Press and hold down** → Second hand advances rapidly.

If the second hand does not move even when the upper right button (B) is pressed, perform Step **1** of the page on the left.

### 2 Press the crown back into its normal position.

## 3 Reset the minute hand



### Press and release the lower right button (A) to adjust the position of the chronograph minute hand.

The chronograph minute hand moves together with the second hand when correcting the second hand. Reset the minute hand.






**Be sure to secure if the watch has a screw down crown and/or screw down push button.**  
Water may enter your watch.

## Precautions

### **WARNING** **Water-resistance performance**

- There are several types of water-resistant watches, as shown in the following table. The unit “bar” is roughly equal to 1 atmosphere.
- For correct use within the design limits of the watch, confirm the level of water-resistance of your watch, as indicated on the dial and case, and consult the table.

Indication		Specifications
Dial	Case (case back)	
WATER RESIST or no indication	WATER RESIST(ANT)	Water-resistant to 3 atmospheres
WR 50 or WATER RESIST 50	WATER RESIST(ANT) 5 bar or WATER RESIST(ANT)	Water-resistant to 5 atmospheres
WR 100/200 or WATER RESIST 100/200	WATER RESIST(ANT) 10bar/20 bar or WATER RESIST(ANT)	Water-resistant to 10/20 atmospheres

Examples of use				
 <p>Minor exposure to water (washing face, rain, etc.)</p>	 <p>Swimming and general washing work</p>	 <p>Skin diving, marine sports</p>	 <p>Scuba diving using an air tank</p>	 <p>Operate the crown or button when the watch is wet</p>
<b>OK</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>OK</b>	<b>OK</b>	<b>OK</b>	<b>NO</b>	<b>NO</b>

\* WATER RESIST(ANT) xx bar may also be indicated as W.R. xx bar.

 **WARNING**    **Water-resistance performance**

- Water-resistance for daily use (to 3 atmospheres): This type of watch is water-resistant to minor exposure to water. For example, you may wear the watch while washing your face; however, it is not designed for use underwater.
- Upgraded water-resistance for daily use (to 5 atmospheres): This type of watch is water-resistant to moderate exposure to water. You may wear the watch while swimming; however, it is not designed for use while skin diving.
- Upgraded water-resistance for daily use (to 10/20 atmospheres): This type of watch may be used for skin diving; however, it is not designed for scuba or saturated diving using helium gas.



 **CAUTION**

- Be sure to use the watch with the crown pressed in (normal position). If your watch has a screw down crown, be sure to tighten the crown completely.
- Do NOT operate the crown or button with wet fingers or when the watch is wet. Water may enter the watch and compromise water-resistance.
- If the watch is used in seawater, rinse with fresh water afterward and wipe with a dry cloth.
- If moisture has entered the watch, or if the inside of the crystal is fogged up and does not become clear within a day, immediately take the watch to your dealer or Citizen Service Center for repair. Leaving the watch in such a state will allow corrosion to form inside.
- 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, buttons, etc.) may come off.

## **CAUTION**    **Keep your watch clean**

- Leaving dust and dirt deposited between the case and crown may result in difficulty in pulling the crown out. Rotate the crown while in its normal position, from time to time, to loosen dust and dirt and then brush it off.
- Dust and dirt tend to be deposited in gaps in the back of the case or band. Deposited dust and dirt may cause corrosion and soil your clothing. Clean the watch occasionally.

### **Cleaning the Watch**

- Use a soft cloth to wipe off dirt, perspiration and water from the case and crystal.
- Use a soft, dry cloth to wipe off perspiration and dirt from the leather band.
- To clean a metal, plastic, or rubber watchband, wash away dirt with mild soap and water. Use a soft brush to remove dust and dirt jammed in the gaps in the metal band. If your watch is not water-resistant, take it to your dealer.

**Note:** Avoid using solvents (thinner, benzine, etc.), as they may damage the finish.

## CAUTION **Operating environment**

- Use the watch within the operating-temperature range specified in the instruction manual. Using the watch where temperatures are outside the specified range, may result in deterioration of functions or even stoppage of the watch.
- Do NOT use the watch in places where it is exposed to high temperature, such as in a sauna. Doing so may result in a skin burn.
- Do NOT leave the watch in a place where it is exposed to high temperature, such as the glove compartment or dash-board of a car. Doing so may result in deterioration of the watch, such as deformation of plastic parts.
- Do NOT place the watch close to a magnet. Timekeeping will become inaccurate if you place the watch close to magnetic health equipment such as a magnetic necklace or a magnetic latch of a refrigerator door or handbag clasp or the earphone of a mobile phone. If this has occurred, move the watch away from the magnet and reset the time.
- Do NOT place the watch close to household appliances that generate static electricity. Timekeeping may become inaccurate if the watch is exposed to strong static electricity, such as is emitted from a TV screen.

- Do NOT subject the watch to a strong shock such as dropping it onto a hard floor.
- Avoid using the watch in an environment where it may be exposed to chemicals or corrosive gases. If solvents, such as thinner and benzine, or substances containing such solvents come in contact with the watch, discoloration, melting, cracking, etc. may result. If the watch comes in contact with mercury used in thermometers, the case, band or other parts may become discolored.

## Periodical inspections

Your watch needs inspection once in every two or three years for safety and long use. To keep your watch water-resistant, the packing needs to be replaced regularly. Other parts need to be inspected and replaced if necessary. Ask for Citizen genuine parts upon replacement.

 **WARNING Handling the rechargeable cell**

- Do not remove the rechargeable cell from the watch yourself. If you must remove the cell, store it out of reach of children to avoid accidental ingestion.
- If the rechargeable cell is ingested, consult a doctor immediately.
- Do not throw away with regular trash. Please follow your local government disposal regulations to prevent the risk of fire or environmental contaminations.

 **WARNING Do not use anything other than the specified rechargeable cell**

- The watch will not operate if incorrect battery types are inserted.
- Never use a regular silver battery. The battery could overcharge during the charging process and burst, causing damage to the watch or injuries to the wearer.

## CAUTION      Charging precautions

- Do not charge the watch in a high-temperature environment (about 60°C/140°F or more). Overheating while charging can cause the watch exterior to become discolored, the watch to deform or the movement to be damaged.  
Example)
  - Charging close to incandescent lighting, halogen lamps, or other lighting sources that easily become hot.
  - Charging on surfaces that can easily become hot, such as a car dashboard.
- When charging with incandescent lighting, halogen lamps, or other lighting sources that easily become hot, place the watch at least 50 cm (20 in.) away from the source to avoid overheating.

## Specifications

<b>Mvmnt. Cal. No.:</b>	B61 *
<b>Type</b>	Analog solar-powered watch
<b>Timekeeping accuracy</b>	Within +/-15 seconds per month when worn at normal operating temperatures (+5°C / 41°F and +35°C / 95°F)
<b>Operational temperature range</b>	-10°C / 14°F to +60°C / 140°F
<b>Display functions</b>	Time: Hour, minute, second, and 24-hour Calendar: Date (does not automatically adjust for months shorter than 31-days)
<b>Additional functions</b>	Chronograph (measures up to 60 minutes), Insufficient Charge Warning Function, Overcharge Prevention Function, Quick Start Function)
<b>Maximum run time from full charge</b>	Fully charged to fully discharged: Approximately seven months Power reserve upon Insufficient Charge Warning Function engagement: Approximately seven days
<b>Battery</b>	Rechargeable cell 1pc



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Model No.CA0 \* · FB3 \*

Cal.B61 \*

CTZ-B8143 ⑤