

CITIZEN®

INSTRUCTION MANUAL



Eco-Drive

ENGLISH

Thank you for the purchase of this CITIZEN watch.

■ Notes on charging your watch

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

■ For optimal performance

- Expose the watch dial towards direct sunlight for several hours at least once a month.
- After taking off the watch, put it in a position so that the dial is exposed to bright light, such as by a window.
- Before storing the watch in a dark place for an extended period of time, be sure to charge it fully.

■ Charging time by environment






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	8 minutes	4 hours	40 hours
Outdoors (cloudy)	10 000	20 minutes	10 hours	90 hours
20 cm (8 inches) away from a fluorescent lamp (30W)	3 000	40 minutes	25 hours	200 hours
Interior lighting	500	4 hours	160 hours	—

■ Component identification



* The illustrations may differ from the actual appearance of your watch.

■ Checking the power reserve

Level	3	2	1	0
Power reserve level				
Sufficient 			Not sufficient (The watch must be charged)	

■ **Insufficient charge warning:** If the power becomes very low, the second hand advances at 2-second intervals, indicating that charging is necessary.

■ **Quick start function:** When the stopped watch is exposed to light, it starts operating again.

Adjusting the time and calendar

- If your watch has a screw-type crown, lift up the crown to loosen it before operation. Be sure to press the crown down firmly after operation.

Adjusting the time

- 1 Pull the crown out to the second click position (time setting position, [2]).
- 2 Rotate the crown to adjust the time.
- 3 After adjusting the time, firmly push the crown back into its normal position ([0]).





Adjusting the calendar

Do not adjust the calendar between 9:00 pm and 1:00 am. Otherwise the calendar may not change correctly.

- 1 Pull the crown out to the first click position (time setting position, [1]).
- 2 Rotate the crown to adjust the time.
- 3 After adjusting the time, firmly push the crown back into its normal position ([0]).

Warnings on water-resistance performance

- 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: this type of watch is resistance to minor exposure to water such as accidental splashing. For example, you may wear the watch while washing your face, however it is not designed to be used underwater.
- Upgraded water-resistance for daily use (tested to 5 bar) : This type of watch is resistance to moderate exposure to water. You may wear the watch while swimming, however, it is not designed to be used for skin diving.
- Upgraded water-resistance for daily use (tested to 10 or 20 bar): This type of watch may be used for skin diving; however, it is not designed to be used for scuba or saturation diving.
- Before use, confirm the water-resistance level of your watch indicated on the dial and case, referencing the table below. (The unit “bar” is roughly equal to 1 atmosphere.)
- “WATER RESIST(ANT) xx bar” may also be indicated as “W.R. xx bar.”

Names	Indication (Case or back)	Specification	Examples of use			
			Minor exposure to water (washing face, rain, etc.) 	Moderate exposure to water (washing, kitchen work, swimming) 	Marine sports (skin diving) 	Operate the crown or buttons when the watch is wet. 
Non-water resistant	—	Non-water resistant	NO	NO	NO	NO
WATER RESIST(ANT) or no indication	WATER RESIST(ANT)	Water resistant for daily use	OK	NO	NO	NO
WR 50 or WATER RESIST 50	WATER RESIST(ANT) 5 bar	Water resistant to 5 atmospheres	OK	OK	NO	NO
WR 100/200 or WATER RESIST 100/200	WATER RESIST(ANT) 10/20 bar	Water resistant to 10/20 atmospheres	OK	OK	OK	NO

Water resistance

- Be sure to use the watch with the crown pressed in fully (normal position, 0) to ensure the water resistance. If the crown of your watch is the screw down crown, be sure to tighten it completely.
- Do not operate the crown or buttons when the watch is wet.
- If water has penetrated the watch, or if the inside of the glass is fogged up and does not become clear in a day, take the watch to your dealer or Citizen Service Center for repair. Leaving the watch in such a state will rust the internal parts and malfunction.
- If sea water enters the watch, place the watch will increase and parts (such as the glass and buttons) may come off.
- If the watch is used in seawater, rinse with fresh water afterward and wipe the a dry cloth after each use.
- The durability of a leather band may be affected when wet, owing to the properties of the material. In the case of a watch of upgraded water resistance for daily use that is frequently used in water, fading, peeling of adhesive or other problems may occur. It is therefore recommended to use another type of band (metal or rubber watchband).

Precautions

Handling the rechargeable cell and charging

- Excessively high temperature when charging the watch may cause discoloration and deformation of the components, and result in malfunction of the movement.
- Do not remove the rechargeable cell. If it is removed, keep the rechargeable cell out of reach of children to prevent ingestion.
- If the rechargeable cell is swallowed, consult a doctor and seek medical treatment.
- Do not charge the watch at a high temperature (about 60° C/140° F or higher).



Examples:

- charging the watch too close to light such as an incandescent lamp or halogen lamp (Halogen lights are not recommended for charging due to their high heat output.)
- charging the watch in locations where the temperature may become extremely high—such as on the dashboard of a vehicle
- 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.

To avoid malfunction

Temperature

- DO NOT use the watch where the temperature is lower or higher than the operation temperature specified in the instruction manual. Doing so may cause the watch to malfunction or stop.

Magnetism

- DO NOT place the watch nearby any materials generating a strong magnetic field such as:
 - magnetic health equipment such as a magnetic necklace.
 - a magnetic latch of a refrigerator door.
 - a magnetic clasp on a handbag.
 - speakers of a mobile phone.
 - electromagnetic cooking devices.
- They may interfere with the movement of the stepping motors in the watch and timekeeping becomes inaccurate.

Static electricity

- DO NOT place the watch nearby household appliances generating static electricity.
- Timekeeping may become inaccurate if the watch is exposed to such strong static electricity as that which is emitted from a TV screen.

Static

- DO NOT apply any strong shock, for example, by dropping it onto a hard floor.

Chemicals

- Avoid using the watch where it may be exposed to chemicals or corrosive gases. If solvents, such as thinners or benzine, or substances containing such solvents come in contact with the watch, discoloration, melting, cracking, etc. may occur.

The case, band, or other parts may become discolored if the watch comes into contact with some household chemicals such as mercury that may be found in thermometers.

Maintenance

- Wipe off dirt, perspiration, and water from the case and glass with a soft cloth.
- To clean metal, plastic, or rubber watchband, wash away dirt with water. Use a soft brush to remove dust and dirt stuck in the gaps in a metal band.
- Do not use solvents (thinner, benzine, etc.), as they may damage the finish.
- Do not use a polishing type of cloth as this may damage the surface and certain treatments.
- Rotate the crown while it is pressed in full (0) and press the button periodically so they do not become stuck due to accumulation of foreign matter.

Periodical inspection

- Your watch will need an inspection once every two or three years for safety and longer usage.
- To keep your watch water-resistant, the gaskets and other components need to be replaced regularly.
- Other parts need to be inspected if necessary. Always ask for genuine Citizen parts upon replacement.

Specifications

Model: J850

Type: Analog solar-powered watch

Timekeeping accuracy: Within ± 15 sec/month (within a normal temperature range of $+5^{\circ}\text{C}/41^{\circ}\text{F}$ to $+35^{\circ}\text{C}/95^{\circ}\text{F}$)

Operating temperature range: $-10^{\circ}\text{C}/14^{\circ}\text{F}$ to $+60^{\circ}\text{C}/140^{\circ}\text{F}$

Display functions: Time: hour, minute, second

Calendar: Date

Power reserve: 4 levels

Additional functions: Solar power function / Overcharging prevention function /

Insufficient charge warning function (2-second interval movement)

Power reserve indication / Quick start function

Maximum run time from full charge:

- When fully charged, the watch runs without additional charging in normal use: Approximately 8 months
- Power reserve upon insufficient charge warning function: Approximately 7 days

Rechargeable cell: 1 pc.

* Specifications are subject to change without prior notice.