

- Manuals.plus /
- › Citizen /
- › Citizen Eco-Drive Watch CA7090-87L Instruction Manual

Citizen CA7090-87L

Citizen Eco-Drive Watch CA7090-87L
INSTRUCTION MANUAL

Introduction

Thank you for choosing the Citizen Eco-Drive Watch CA7090-87L. This timepiece combines elegant design with advanced Eco-Drive technology, ensuring reliable and maintenance-free operation by converting any light source into energy. This manual provides essential information for setting up, operating, and maintaining your watch.

Product Overview

The Citizen CA7090-87L features a durable titanium case and bracelet, a striking blue dial, and multiple functions including a chronograph, date display, and tachymeter. Its Eco-Drive movement eliminates the need for battery replacement.



Figure 1: Front view of the Citizen Eco-Drive CA7090-87L watch. This image displays the watch's blue dial, silver titanium case, and bracelet, highlighting the chronograph subdials and tachymeter scale.

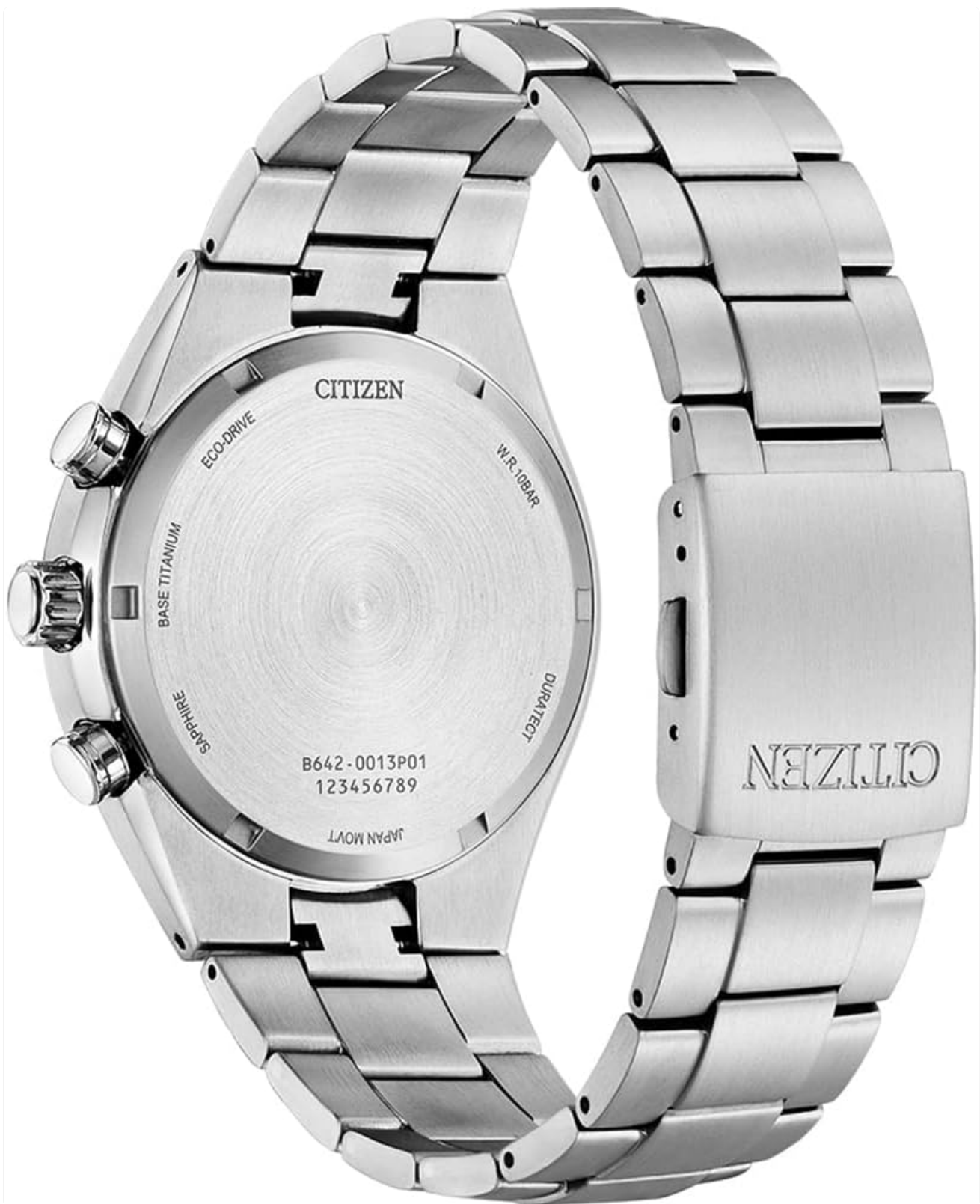


Figure 2: Rear view of the Citizen Eco-Drive CA7090-87L watch. This image shows the solid case back with engravings such as "CITIZEN", "ECO-DRIVE", "BASE TITANIUM", "SAPPHIRE", and "W.R. 10BAR".



Figure 3: Side view of the Citizen Eco-Drive CA7090-87L watch. This perspective highlights the watch's thickness, the main crown, and the two chronograph pushers located on the right side of the case.

Setup

1. Initial Charging

Your Eco-Drive watch is powered by light. Before first use, ensure it is fully charged. Place the watch in direct sunlight or under a strong artificial light source for several hours. A full charge can take up to 11 hours in direct sunlight or significantly longer under indoor lighting. Avoid placing the watch too close to incandescent lights as it may overheat.

2. Setting the Time and Date

1. **Pull out the crown:** Gently pull the crown (located at 3 o'clock) out to the second click position. The second hand will stop.
2. **Set the time:** Rotate the crown to set the hour and minute hands. Ensure you distinguish between AM and PM when setting the time, especially for the date change.
3. **Set the date:** Push the crown in one click to the first click position. Rotate the crown to set the date.
4. **Push in the crown:** Once time and date are set, push the crown back in to the normal position. The second hand will resume movement.

Operating Instructions

Using the Chronograph

The chronograph function allows you to measure elapsed time.

1. **Start:** Press the upper pusher (button A) to start the chronograph. The chronograph second hand will begin moving.
2. **Stop:** Press the upper pusher (button A) again to stop the chronograph. The elapsed time will be indicated by the chronograph hands.
3. **Reset:** Press the lower pusher (button B) to reset the chronograph. All chronograph hands will return to their zero positions.

Using the Tachymeter

The tachymeter scale on the bezel can be used to measure speed over a known distance (e.g., 1 kilometer or 1 mile) or to calculate production rates.

1. **For Speed:** Start the chronograph at the beginning of the measured distance. Stop the chronograph when the distance is completed. The point on the tachymeter scale indicated by the chronograph second hand shows the average speed per hour.
2. **For Production Rate:** Start the chronograph when an operation begins. Stop it when one unit of work is completed. The number on the tachymeter scale indicated by the chronograph second hand shows the number of units produced per hour.

Maintenance and Care

- **Charging:** To maintain optimal performance, expose your watch to light regularly. Avoid prolonged storage in dark places.
- **Cleaning:** Wipe the watch case and bracelet with a soft, dry cloth. For stubborn dirt, use a slightly damp cloth and then dry thoroughly. Do not use solvents or harsh chemicals.
- **Water Resistance:** This watch is water resistant to 10 BAR (100 meters / 330 feet). This makes it suitable for swimming and snorkeling, but not for scuba diving. Do not operate the crown or pushers when the watch is wet or submerged.
- **Temperature:** Avoid exposing the watch to extreme temperatures (below 0°C / 32°F or above 60°C / 140°F) or sudden temperature changes.
- **Impact:** Protect your watch from strong impacts and vibrations.

Troubleshooting

Problem	Possible Cause	Solution
Watch stops or second hand moves irregularly (two-second interval).	Insufficient charge.	Expose the watch to light for a prolonged period to fully charge it.
Time is incorrect after charging.	Time was not reset after power depletion.	Perform a full reset and set the time and date manually as described in the "Setup" section.
Chronograph hands do not reset to zero.	Misalignment due to impact or magnetic fields.	Refer to the full Citizen manual for your movement (B642) for chronograph hand alignment procedures, or contact customer support.

Specifications

Model Number	CA7090-87L
Movement	Eco-Drive (Solar Powered)
Case Material	Titanium
Case Diameter	43 mm
Case Thickness	11 mm
Band Material	Titanium
Band Length	21 cm
Band Width	23 mm
Crystal	Sapphire
Water Resistance	10 BAR (100 meters / 330 feet)
Functions	Date, Solar Power, Chronograph, Tachymeter
Weight	100 grams

Warranty and Support

Your Citizen Eco-Drive watch comes with a **2-year manufacturer's warranty** from the date of purchase. This warranty covers manufacturing defects under normal use. It does not cover damage resulting from improper handling, accidents, or

unauthorized repairs.

For warranty claims, service, or technical support, please contact Citizen customer service or visit their official website. Keep your proof of purchase for warranty validation.

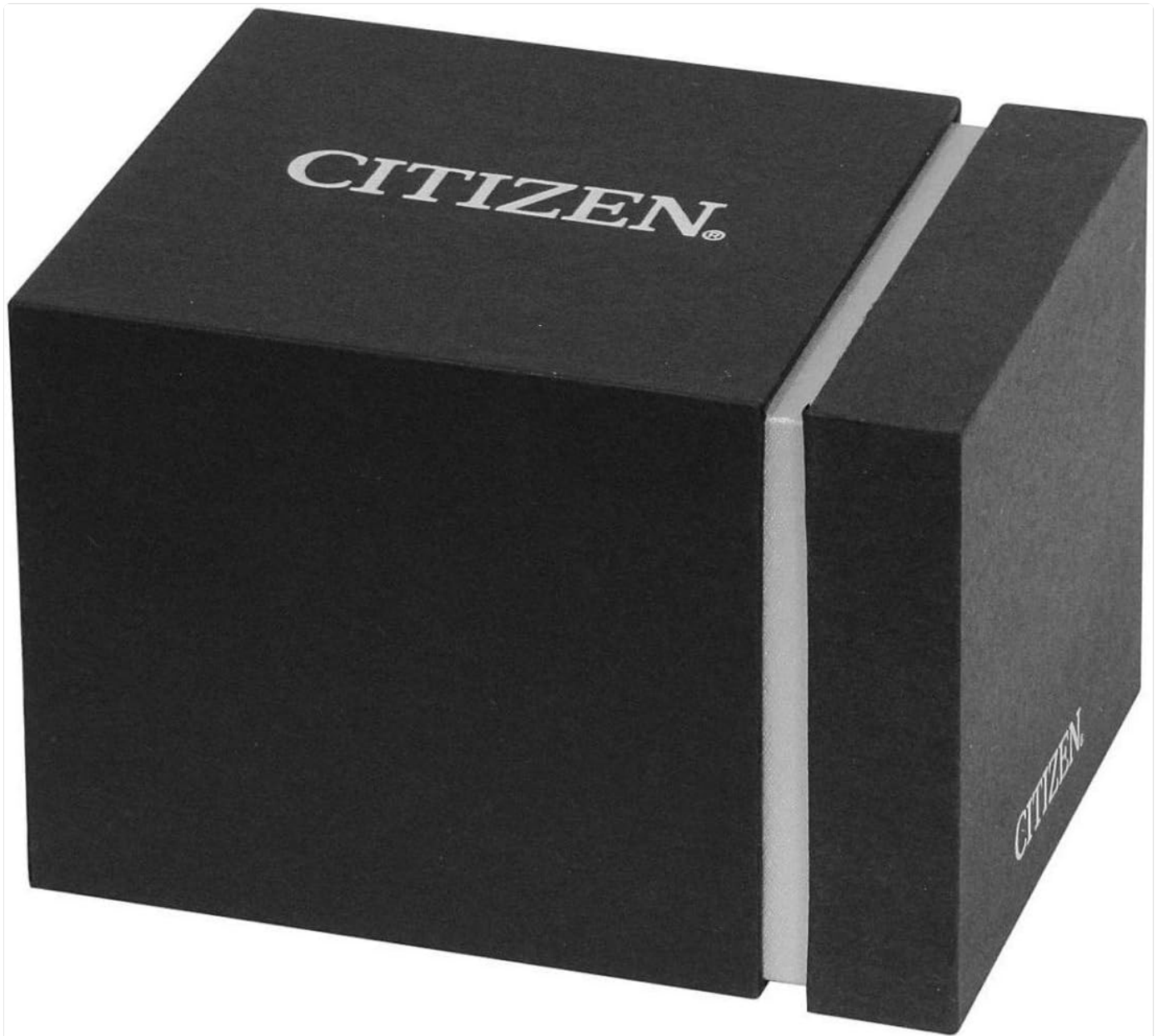


Figure 4: The Citizen watch is delivered in a black gift box, suitable for presentation and storage, and includes the warranty information.

For more detailed information, please refer to the official Citizen website or the comprehensive manual provided with your watch.

- [Citizen Official Website](#)
- [Citizen Manuals & Support](#)

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