

CITIZEN®

INSTRUCTION MANUAL



Eco-Drive®



ENGLISH

FRANÇAIS

ESPAÑOL

DEUTSCH

ITALIANO

PORTUGUÊS

中文(繁体字)

中文(简体字)

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.

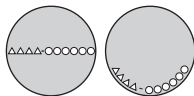
To check the movement number

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 may contain certain safety advisories. Your watch should be used in accordance with these advisories at all times to ensure optimal enjoyment of your watch and to prevent injury to yourself, other persons and/or damage to property. Understand the meaning of the following symbols and read pages from **56** to **69**.

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

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

- 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 the watch

The following must be done before using the watch:

- **Checking the power reserve → Page 16**

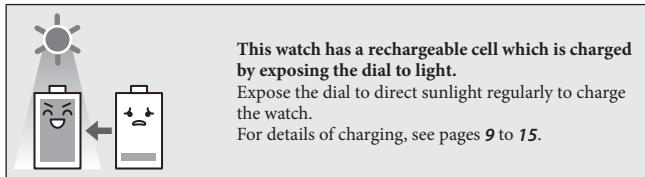
Check the charge level of the watch.

- **Setting the World Time → Page 18**

Select the city or time difference for which you want to indicate the time and date.

- **Checking the time signal reception → Page 17**

Check the result of the time signal reception.



Before using the watch

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 your nearest 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.

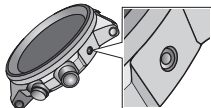
How to use a specially designed crown/button

Some models are equipped with a specially designed crown and/or push button to prevent accidental operation.

Screw down crown/button

Unlock the crown/button prior to operate your watch.

	Unlock	Lock
Screw down crown	 Rotate the crown counterclockwise until it releases from the case.	 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.
Screw down push button	 Rotate the locking screw counterclockwise, and loosen until it stops.	 Rotate the locking screw clockwise, and tighten firmly.

Recessed buttons

Press the button with a non-marring narrow-tipped object such as a wooden toothpick.

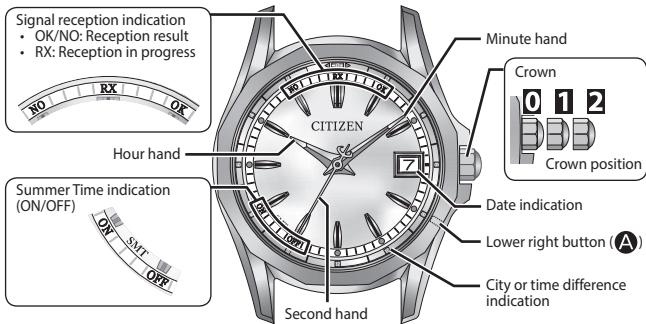
- Metal objects may cause marring or scratching of the button.

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Component identification

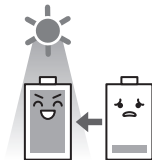


The illustrations in this instruction manual may differ from the actual appearance of your watch.

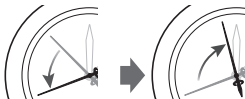
Recharging your watch

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 charge of the watch is low if the second hand rotates counterclockwise when you check the power reserve (page 16) or the time signal reception (page 17). You can operate the watch as usual. However, **the watch needs to be charged.**



After rotating
counterclockwise ...

Indicates the
reception result

In addition, for optimal performance, perform the following:

- **Expose the watch with the dial facing towards 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.**

Caution

- When the watch is regularly covered with long sleeves, it may not be charged sufficiently. Try to keep the watch exposed to light sufficient for charging.
- Do not charge the watch at a high temperature (about 60°C (140°F) or higher).

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	4 minutes	1.5 hours	25 hours
Outdoors (cloudy)	10,000	14 minutes	4 hour	60 hours
20 cm (7-7/8 inches) away from a fluorescent lamp (30W)	3,000	40 minutes	12 hours	150 hours
Interior lighting	500	4 hours	80 hours	*

- * To charge the rechargeable cell fully, it is recommended to expose the dial to direct sunlight. A fluorescent lamp or interior lighting does not have sufficient illumination to charge the rechargeable cell fully.
- When fully charged, **the overcharging prevention function** works automatically. The accuracy or parts of the watch will not be affected by extra charging.

Run time

Fully charged to fully discharged:

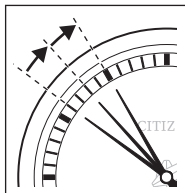
Approximately six months (at normal operation)

Approximately three years (with power save feature)

■ 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. Charge the watch by exposing the dial to light.

- When the watch is sufficiently charged, the second hand will move normally.
- If you have not charged the watch for several days since the insufficient charge warning movement began, the watch will run out of power and stop.



Caution

Even when the second hand moves once every two seconds, the current time and date are indicated. However, operations and signal reception are not possible.

Power save feature

When the watch is not exposed to light for a long period of time, such as when you store it in the dark, the minute hand and second hand automatically stop to save power. However, the watch still keeps the time.

- When the crown is in position **1** or **2**, the power save feature will not activate.
- The power save feature can not be activated manually.

To cancel the power save feature

When the watch is exposed to light sufficient for charging, the power save feature is automatically canceled and normal time indication will resume.

After the power save feature is canceled, you should receive the time signal manually. See pages **34** and **35**.

- The power save feature cannot be canceled by operating the crown or buttons.

Checking the power reserve



1. **Ensure that the crown is in position 0.**

2. **Press the lower right button A briefly.**

The second hand moves to indicate the power reserve.

The second hand indicates "OK" or "NO"	The watch is sufficiently charged.
The second hand rotates counterclockwise, then indicates "OK" or "NO"	The charge of the watch is low. Charge the watch. See pages 9 to 15.

- "OK" and "NO" indicate the reception result of the time signal and no relationship to the power reserve.

3. **Press the lower right button A briefly to finish the procedure.**

The current time is indicated.

- The current time will be indicated automatically after 10 seconds even without pressing the button.

Checking the time signal reception



1. Ensure that the crown is in position **0**.
2. Press the lower right button **A** briefly.

The second hand indicates the reception result.

OK	Reception has succeeded.
NO	Reception has failed.

When reception has failed, see page 32.

3. Press the lower right button **A** briefly to finish the procedure.

The current time is indicated.

- The current time will be indicated automatically after 10 seconds even without pressing the button.



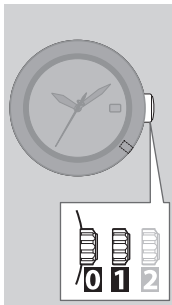
Setting the World Time

By setting the city or time difference from UTC, the local time and date is shown. Select the city or time difference to indicate the current time and date.

- Whether you select the city or time difference depends on the appearance of your watch.

Watch appearance for setting the city	Watch appearance for setting the time difference
City indication  See pages 19 and 22 to 25.	Time difference indication  See pages 20 to 25.

Setting the city



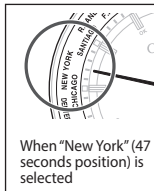
Select the city for which you want to indicate the time and date.

1. Pull the crown out to position 1.

The second hand moves and indicates the city currently selected.

2. Rotate the crown to select the city for which you want to indicate the time and date.

- For details of the selection of cities, see pages 23 to 25.
- Each time you select a city, the time and date of the city you have selected will be indicated.

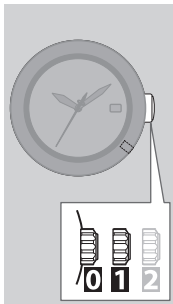


When "New York" (47 seconds position) is selected

3. Push the crown in to position 0 to finish the procedure.

After setting the World Time, check the displayed time—Summer Time or standard time. (See pages 36 to 41.)

Setting the time difference

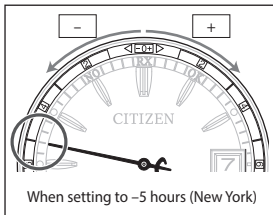


1. Pull the crown out to position 1.

The second hand moves and indicates the time difference currently selected.

2. Rotate the crown to select the time difference.

- You can select the time difference from UTC in the range of -11 hours to +12 hours, in 1 hour increments.



3. Push the crown in to position **0** to finish the procedure.

- Be sure to set the time difference from UTC. To show the summer time, change the display after setting the time difference. (See pages **36** to **41**.)
- See the tables on pages **23** to **25** for the time differences for typical cities.

Table of selectable cities/time differences

- The signal station changes depending on the selected city/time difference.
- Cities out of receivable range cannot receive the signal though a signal station is assigned in the list.
- For cities indicated by *, the watch shows Summer Time/standard time in common.
- For cities indicated by **, the watch shows Summer Time/standard time in common.
- The time difference in the table below is based on UTC.
- The standard time for each area or country may change according to their situation.

<When your watch has city indication>

- The indications in the table below are written differently on some models.
- When you use the watch in a place which is not shown in the table below, select the city in the same time zone as the city you want to indicate.
- The city of ♦ is outside the reception range and signals cannot be received. (The watch will attempt to receive signals from each station at the appointed time.)
If necessary, summer time setting can be done manually.

Typical city		Time zone	City indication or second hand position			Signal station
*	London	0	London	LON	0	Germany
*	Paris	+1	Paris	PAR	3	
*	Athens	+2	Athens	ATH	5	
	Riyadh	+3	Riyadh	RUH	8	◆Germany
	Dubai	+4	Dubai	DXB	10	
	Karachi	+5	Karachi	KHI	13	
	Dhaka	+6	Dhaka	DAC	15	◆China
	Bangkok	+7	Bangkok	BKK	17	
	Beijing	+8	Beijing	BJS	20	

Continued on the next page



Setting the World Time

Typical city	Time zone	City indication or second hand position			Signal station
Tokyo	+9	Tokyo	TYO	22	Japan
Sydney	+10	Sydney	SYD	25	◆Japan
Noumea	+11	Noumea	NOU	27	
Auckland	+12	Auckland	AKL	30	
Midway Island	-11	Midway	MDY	33	◆USA
Honolulu	-10	Honolulu	HNL	35	
** Anchorage	-9	Anchorage	ANC	38	
** Los Angeles	-8	L.Angeles	LAX	40	USA
** Denver	-7	Denver	DEN	43	
** Chicago	-6	Chicago	CHI	45	
** New York	-5	New York	NYC	47	◆USA

Typical city	Time zone	City indication or second hand position			Signal station
Santiago	-4	Santiago	SCL	50	◆USA
Rio de Janeiro	-3	R.Janeiro	RIO	52	
Fernando de Noronha	-2	F.Noronha	FEN	55	◆Germany
* Azores (Ponta Delgada)	-1	Azores	PDL	57	

- Please refer to page 22.
- The city of ◆ is outside the reception range and signals cannot be received.
(The watch will attempt to receive signals from each station at the appointed time.)
If necessary, summer time setting can be done manually.

Notes on the time signal reception

Receiving the time signal

There are three ways to receive the time signal:

- The second hand indicates the reception result (OK/NO). (See page 17.)

Methods	Explanations
Automatic reception	Receives the signal every night.
On demand reception	Receives the signal when you want to adjust the time and date. See page 34.
Recovery automatic reception	Automatically receives the signal once after charging when the watch stops due to insufficient charge.

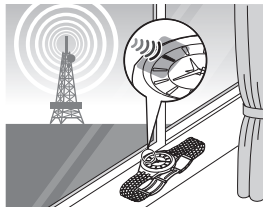
- * These reception methods are possible only when the crown is in position **0**.
- The watch will not receive the time signal when in a low charge state as indicated by the second hand moving in two second increments (the insufficient charge warning). Charge the watch before reception.

- The automatic reception function and recovery automatic reception function cannot be deactivated.
- Even when this watch receives the time signal successfully, the accuracy of the displayed time will be dependent on the reception environment and internal processing.
- If the watch is not able to receive the signal, it will operate normally within an accuracy range of ± 15 seconds per month.

When receiving the time signal

Remove the watch and place it on a stable surface where it can receive the signal better, such as next to a window.

- The reception antenna is located at the 9:00 position of the watch. Place the watch with the 9:00 position facing toward the station.
- Do not move the watch during time signal reception.



Notes on the time signal reception

Note on the time signal

This watch receives the time signal from one of the five signal stations located in four regions. The receivable signal stations are listed as follows:

Signal stations	Kind of the time signal
Fukushima station, Japan	JJY
Kyushu station, Japan	
Fort Collins station, Denver, Colorado, USA	WWVB
Mainflingen station, Southeast Frankfurt, Germany	DCF77
Shangqiu station, Henan, China	BPC

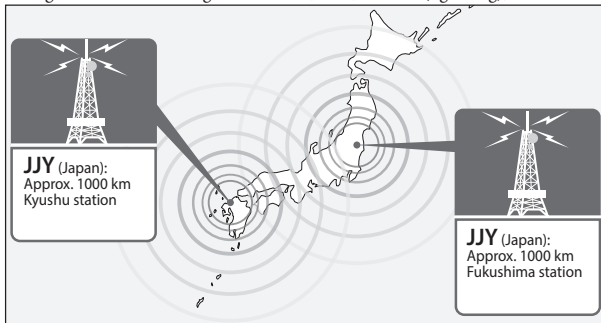
Refer to the maps on pages **29** to **31** to see the locations of the signal stations and their receivable area roughly.

- Either signal station in Japan is automatically selected for receiving the JJY signal (Automatic selection of time signal stations).

The time signal has no effect on the human body or medical equipment.

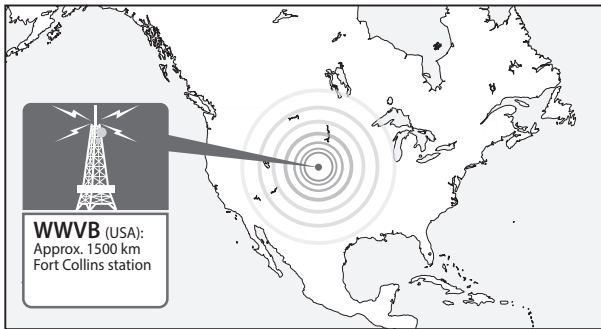
Approximate receivable area

The distance of receivable range is only used as an approximate value. It is often affected by the receiving environment and weather. The receivable range is often affected by the following conditions: receiving environment, time, weather (lightning), and so on.

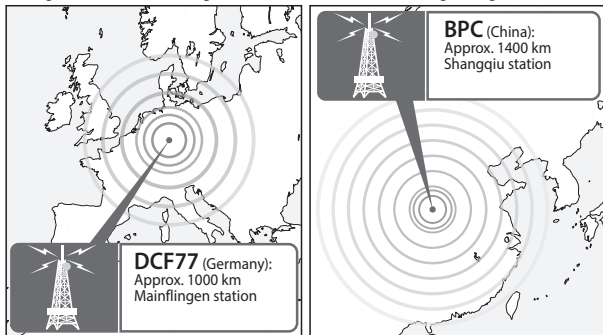


Notes on the time signal reception

The distance of receivable range is only used as an approximate value. It is often affected by the receiving environment and weather. The receivable range is often affected by the following conditions: receiving environment, time, weather (lightning), and so on.



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■ When signal reception is poor

High-tension electrical lines or other structures near your house may block the path to the signal station. This may result in a poor environment for receiving the time signal. With reference to pages **29** to **31**, search for a better place for reception. Then, attempt to receive the time signal following the procedure on pages **34** and **35**.

- If the window contains a wire netting in it, the signal reception may become poor.

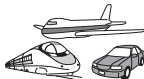
Poor reception areas

It may be difficult to receive the time signal properly under certain environmental conditions or in areas susceptible to radio noise.

- Extremely hot or cold locations



- Inside vehicles



- Near electrical equipment or office appliances



- Near high-tension electrical lines, railway overhead wires or communication facilities



- Inside reinforced concrete buildings, between tall buildings, mountains, or underground



- Near mobile phones that are in use



Receiving the time signal manually (On demand reception)



You can adjust the watch by receiving the time signal any time when the time and date are not correct or the reception result is “NO.”

- The watch will not start to receive if the second hand is moving once every two seconds (this is the insufficient charge warning). Charge the watch beforehand.
- Before starting reception, confirm that the appropriate city or time difference is selected for receiving the signal. See pages **18** to **25**.

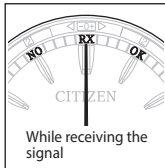
1. **Ensure that the crown is in position 0.**
2. **Press and hold the lower right button **A** for two or more seconds.**

The second hand moves to "RX" and the watch starts receiving.

After receiving the time signal, the second hand will move normally.

- It takes from two to fifteen minutes to complete the time signal reception.

Successful signal reception	The time will be updated and the watch will resume normal operation.
Failed signal reception	Normal operation resumes with the previously set time.



To cancel the reception

Press and hold the lower right button **A for two or more seconds.**

Cancel the reception and the current time will be indicated.

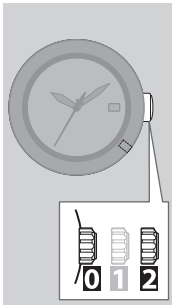
Switching Summer Time and standard time

Summer Time is a system adopted in some countries/areas to gain an extra hour of daylight during summer by advancing clocks by one hour.

- The summer time rules may change depending on the country or area.
- While the summer time is in effect, some time signals include the summer time check signal.
- By receiving the time signal, the watch automatically switches between Summer Time and standard time in accordance with the summer time check signal (automatic switching function).
- Before and after the summer time season, confirm the watch shows Summer Time or standard time correctly.

Checking the time currently shown

Check whether the watch shows Summer Time or standard time.



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

The second hand moves and indicates which time is currently shown.

ON	Summer Time is shown
OFF	The standard time is shown

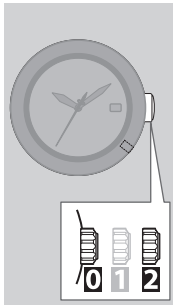


When Summer Time is shown

2. Push the crown in to position **0** to finish the procedure.

To change the time to show, see page 38.

Changing the time to show



1. Pull the crown out to position **2**.
2. Rotate the crown to change the time to show.

To show Summer Time:

Rotate the crown to the right to select "ON."

To show the standard time:

Rotate the crown to the left to select "OFF."

- If you show the standard time manually, the watch will not show Summer Time when receiving the time signal. See page 40.

3. Push the crown in to position **0** to finish the procedure.

<The time shown for each city>

The watch shows and memorizes Summer Time/standard time in common for the following cities/time differences in each area so you do not need to change them for each city/time differences.

- If you show the standard time manually for a city/time differences, the watch always shows the standard time for that city/time difference regardless of the time shown for others in the same area.

Areas receiving the signal from USA		Areas receiving the signal from Germany	
City	Time difference	City	Time difference
Anchorage/ANC (Anchorage),	-9	London/LON (London),	0
L. Angeles/LAX (Los Angeles),	-8	Paris/PAR (Paris),	+1
Denver/DEN (Denver),	-7	Athens/ATH (Athens),	+2
Chicago/CHI (Chicago),	-6	Azores/PDL	-1
New York/NYC (New York)	-5	(Azores/Ponta Delgada)	

For cities/time differences other than those listed above, the time shown last is memorized for each.

■ To cancel the automatic switching function

If you manually show the standard time in step 2 on page **38**, the automatic switching function is deactivated and the watch will not show Summer Time by signal reception. If you are in an area that receives the summer time check signal but does not adopt Summer Time, deactivate the automatic switching function.

To activate the automatic switching function again

Select “ON” in step 2 on page **38** to show Summer Time.

- This operation also activates the automatic switching function.
- If you activate the automatic switching function when Summer Time season is not in effect, receive the time signal to show the standard time.

Adjusting the time/calendar manually



- 1. Pull the crown out to position 2.**
- 2. Press the lower right button **A** briefly.**
The second hand moves to the 0 second position.
- 3. Rotate the crown to adjust the minute.**
 - The second hand rotates around once and the minute hand moves one minute.
 - When it passes “0:00:00,” the date advances by one day.
Be aware of the AM/PM status when you adjust the time.
 - If you spin the crown quickly a few times, the hand will move continuously. To stop it, rotate the crown in either direction.
- 4. Press the lower right button **A** briefly.**
The hour hand moves slightly.

5. Rotate the crown to adjust the hour and date.

- The hour hand and the date indication work together.
- If you spin the crown quickly a few times, the hand will move continuously. To stop it, rotate the crown in either direction.

6. Press the lower right button briefly.

The second hand indicates the current setting of the month and year.

7. Rotate the crown to adjust the month and year.

- See pages 44 and 45 for how to read the month and year.

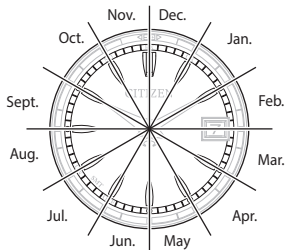
8. Push the crown in to position to finish the procedure.

The time and date are indicated.

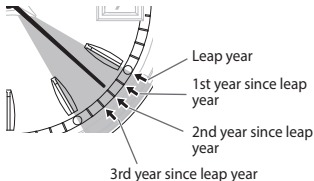
Adjusting the time/calendar manually

Month and year indications

The year and month are indicated by the second hand when you adjust the time and calendar manually. The date is corrected automatically at the end of each month if the number of years passed since the last leap year and month are set correctly.



The position of the second hand shows the month.

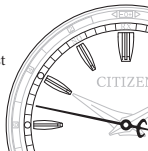


e.g.
When it is April in the second year since the last leap year.

Each minute mark denotes the number of years since the last leap year.



The figure shows February in the 3rd year since the last leap year.



The figure shows September in the 2nd year since the last leap year.

Quick reference chart for the number of years passed since the last leap year

Indication of the second hand	Passed year	Year
Hour marker	Leap year	2016, 2020, 2024
1st min. marker	1st year	2017, 2021, 2025
2nd min. marker	2nd year	2018, 2022, 2026
3rd min. marker	3rd year	2019, 2023, 2027

Checking and correcting the current reference position

If the time or date is not shown correctly even after proper reception of the time signal, check whether the reference position is correct or not.

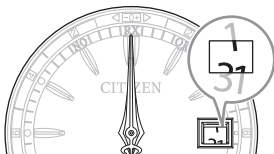
What is the reference position?

The base position for all the hands to indicate the time and date.

- **For the time indication: “0:00:00”**
- **For the date indication: Between “31” and “1”**

If the time and date indications are off from the correct reference position, the watch will not indicate the time and date correctly.

Correct reference position





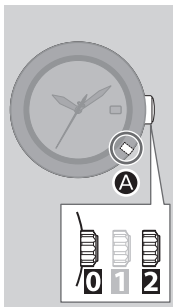
- 1. Pull the crown out to position **1**.**
- 2. Press and hold the lower right button **A** for five or more seconds.**

All hands and the date indication move to indicate the current reference position.

- No operations are available while the hands and date indication are moving.

Reference position	Next operation
Correct	Push the crown in to position 0 to finish the procedure. (You do not need to correct the reference position.)
Incorrect	Correct the reference position. (Proceed to step 3 on page 48 .)

Continued on the next page

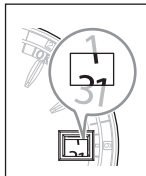


3. Pull the crown out to position 2.

The hour hand moves slightly.

4. Rotate the crown to adjust the hour hand to the "0:00:00" position and the date indication to the halfway between "31" and "1."

- The hour hand and the date indication work together.
- If you spin the crown quickly a few times, the hand will move continuously. To stop it, rotate the crown in either direction.



5. Press the lower right button briefly.

The minute hand and second hand move slightly.

- The hands may not move when they are already set to the correct position.

6. Rotate the crown to adjust the minute hand and second hand to the "0:00:00" position.

- When the hands are already set to the correct position, you cannot make adjustments. If they are not set to the correct position, make adjustments manually. If you cannot make adjustments manually, contact our customer service center.

7. Push the crown in to position to finish the procedure.

Correction of the reference position is finished and the time is indicated.

Troubleshooting

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

Symptoms	Remedies	Page
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Problems with time signal reception.

Reception is unsuccessful in a receivable area.	Push the crown in to position 0 .	—
	Check the World Time setting.	18 to 25
	Avoid things likely to interfere with the time signal and place the watch with the 9:00 position facing toward the station.	27 and 32
	Do not move the watch until the reception has finished.	27
	When the second hand moves once every two seconds, the watch cannot receive the time signal. Charge the watch.	9 to 15

Symptoms	Remedies	Page
The correct time and date are not indicated after successful reception.	Check the World Time setting.	18 to 25
	Check and correct the current reference position.	46 to 49

The hands do not work properly.

The second hand rotates counterclockwise when you check the reception result.	Charge the watch.	9 to 15
The second hand moves once every two seconds.	Charge the watch.	9 to 15
All hands stop moving.	Push the crown in to position 0 .	—
	Charge the watch by exposing it to direct sunlight for five to six hours.	9 to 15

Continued on the next page

Troubleshooting

Symptoms	Remedies	Page
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The hands do not work properly.

The hands start turning rapidly as you take the watch out of the case.	The watch is canceling the power save feature. Wait until the rapid movement stops.	15
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The time and/or date is incorrect.

The time and/or date is incorrect.	Check the World Time setting.	18 to 25
	Check and correct the current reference position.	46 to 49
	Receive the time signal manually to adjust the time and date.	34 and 35
	Set the time and date manually.	42 to 45
Summer Time is not shown.	Select "ON" manually or receive the time signal.	36 to 41

Symptoms	Remedies	Page
The time is incorrect even though the World Time setting is correct and the signal reception was successful.	Check the displayed time—Summer Time or the standard time—and change it if necessary.	36 to 41
	Check and correct the current reference position.	46 to 49
The date changes at around 12:00 p.m.	Receive the time signal manually to adjust the time and date.	34 and 35
	Adjust the time by 12 hours manually.	42 to 45

Others

The hands do not move even if the watch is charged.	Charge the watch by exposing it to direct sunlight for five to six hours. If the problem is not solved after charging, consult an authorized service center or the store where you purchased your watch.	9 to 15
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Resetting the watch—All Reset



The watch may not work properly if it is affected by strong shock or static electricity; the hands do not stop or the watch does not work though the watch is sufficiently charged. In this case, perform All Reset.

Caution

- Be sure to charge the watch fully before performing All Reset. (Pages **9** to **15**)
- **After performing All Reset, the settings change as follows. You must correct the current reference position, then World Time setting and time before using the watch.**
 - Calendar: January (leap year)
 - World Time City: London
Time difference: ± 0 hours (UTC)
 - Summer time: “OFF” for all cities/time differences (automatic switching)

1. Pull the crown out to position **2**.
2. Press the button **A** **for seven or more seconds**, then release it.
When all the hands have stopped moving, the watch has been reset.
 - It may take up to approximately 6 minutes until all the hands stop. This is not a malfunction.
 - If the hands do not move, perform step 2 again.

After performing All Reset

You must set the watch again following the procedure below.

1. **Correct the current reference position.**
After performing All Reset, the watch is in reference position correction mode.
See from step 4 on page 48.
2. **Set the World Time.**
See pages 18 to 25.
3. **Adjust the time/calendar.**
 - When adjusting by receiving the time signal manually:
→ See pages 34 and 35.
 - When adjusting manually:
→ See pages 42 to 45.

Eco-Drive Watch Handling Precautions

<Always Make Sure to Recharge Frequently>

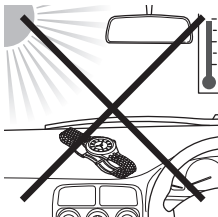
- For optimal performance, your watch should remain fully charged.
- Long sleeves may inhibit light transmission to your watch. This may result in your watch losing charge. In these cases supplemental charging may be necessary.
- When you take off the watch, place it in a bright location to ensure optimal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



Eco-Drive Watch Handling Precautions

<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. For optimal performance, we recommend having your watch inspected every 2-3 years for proper operation and condition check.

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 “1 bar” 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	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	

Water resistance

- 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.

Precautions 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 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.

Precautions and usage limitations

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

Model	H24*	Type	Analog solar-powered watch
Timekeeping accuracy (without the time signal reception)	Within ± 15 seconds per month when worn at normal operation temperatures (between $+5^{\circ}\text{C}$ (41°F) and $+35^{\circ}\text{C}$ (95°F))		
Operating temperature range	-10°C (14°F) to $+60^{\circ}\text{C}$ (140°F)		
Display functions	• Time: Hours, minutes, seconds • Calendar: Date		
Maximum run time from full charge	• Fully charged to fully discharged: Approximately six months (at normal operation) Approximately three years (with power save feature) • Power reserve upon insufficient charge warning function: Approximately three days		
Battery	Rechargeable cell (lithium button cell), 1pc.		

Additional functions

- Solar power function
- Indicating charge of the watch remaining (The charge level is not displayed)
- Overcharging prevention function
- Insufficient charge warning function (two-second interval movement)
- Energy saving function (power save feature)
- Receiving time signal (automatic, on demand, recovery automatic)
- Signal stations: Japan (East/West)/USA/Germany/China
 - * When the time difference is corrected, the signal station is switched.
- Confirming reception status (RX)
- Indicating the result of the last reception (OK/NO)
- Summer Time (ON/OFF)
- City setting (24 cities) or correcting the time difference
- Perpetual calendar (until February 28th, 2100)

Specifications are subject to change without prior notice.

European Union directives conformance statement



Hereby, CITIZEN WATCH CO.,LTD. declares that this product is in compliance with the essential requirements and other relevant provisions of directive 2014/53/EU and all other relevant EU directives.

You can find your product's Declaration of Conformity at "<http://www.citizenwatch-global.com/> ".

Model No.EC1 *

Cal.H24 *

CTZ-B8155