

# 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.

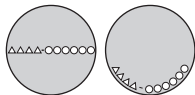
### To check the movement number

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 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 **50** to **63**) 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

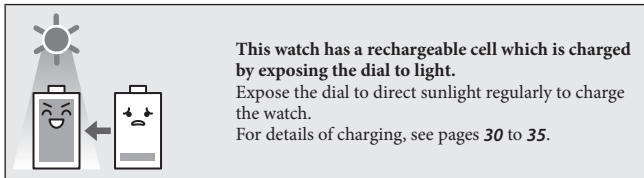
- Important instructions are categorized and depicted in this manual as follows:

	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 8  
Check the charge level of the watch.
- **Setting the World Time** → Page 10  
Select the city or time difference for which you want to indicate the time and date.
- **Checking the time signal reception** → Page 9  
Check the result of the time signal reception.



## Before using the watch

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### **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.

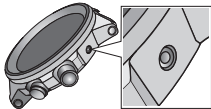
### **How to use a specially designed crown/button**

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
<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>
<b>Screw down push button</b>	 <p>Rotate the locking screw counterclockwise, and loosen until it stops.</p>	 <p>Rotate the locking screw clockwise, and tighten firmly.</p>

**Recessed buttons**

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

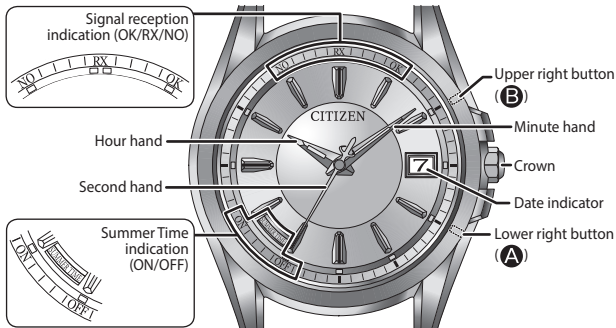
- Metal objects may cause marring or scratching of the button.

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## Component identification



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

## Checking the indicating charge of the watch remaining



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 **30 to 35**.

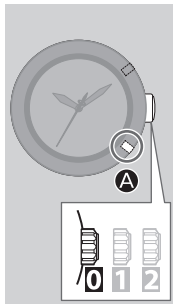
- "OK" and "NO" indicate the reception result of the time signal and no relationship to the power reserve.

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.

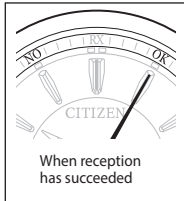
OK	Reception has succeeded.
NO	Reception has failed.

When reception has failed, see page 22.

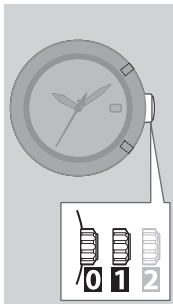
3. Press the lower right button **A** briefly to finish the procedure.

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 time difference from UTC, the local time and date is shown.

Select the time difference to indicate the current time and date.

**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.**

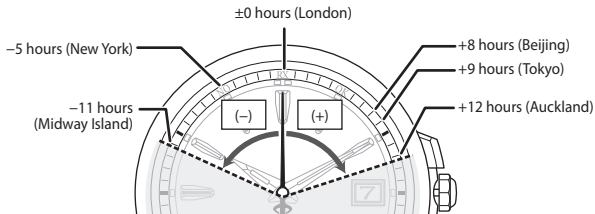
- Select the time difference from UTC. For details, see pages 11 to 15.

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

## Time difference from UTC

Each step of movement of the second hand changes the time difference by one hour. The time difference can be set in the range of  $-11$  and  $+12$  hours (standard time). (A time difference of less than one hour cannot be set.)

- Be sure to set the time difference from UTC. To show the summer time, change the display after setting the time difference. (See pages **26** to **29**.)
- See the table on pages **13** to **15** for time difference for typical cities.



### Table of selectable cities/time differences

- The signal station changes depending on the selected time difference.
- Cities out of receivable range cannot receive the signal though a signal station is assigned in the list.
- 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.
- 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.)

Typical city	Time difference	Second hand position			Signal station
London	0	London	LON	0	Germany
Paris	+1	Paris	PAR	1	
Athens	+2	Athens	ATH	2	◆Germany
Riyadh	+3	Riyadh	RUH	3	
Dubai	+4	Dubai	DXB	4	
Karachi	+5	Karachi	KHI	5	◆China
Dhaka	+6	Dhaka	DAC	6	
Bangkok	+7	Bangkok	BKK	7	
Beijing	+8	Beijing	BJS	8	China

## Setting the World Time

Typical city	Time difference	Second hand position			Signal station
Tokyo	+9	Tokyo	TYO	9	Japan
Sydney	+10	Sydney	SYD	10	◆Japan
Noumea	+11	Noumea	NOU	11	
Auckland	+12	Auckland	AKL	12	
Midway Island	-11	Midway	MDY	49	◆USA
Honolulu	-10	Honolulu	HNL	50	
Anchorage	-9	Anchorage	ANC	51	
Los Angeles	-8	L.Angeles	LAX	52	USA
Denver	-7	Denver	DEN	53	
Chicago	-6	Chicago	CHI	54	
New York	-5	New York	NYC	55	◆USA



Typical city	Time difference	Second hand position			Signal station
Santiago	-4	<b>Santiago</b>	<b>SCL</b>	<b>56</b>	◆USA
Rio de Janeiro	-3	<b>R.Janeiro</b>	<b>RIO</b>	<b>57</b>	
Fernando de Noronha	-2	<b>F.Noronha</b>	<b>FEN</b>	<b>58</b>	◆Germany
Azores (Ponta Delgada)	-1	<b>Azores</b>	<b>PDL</b>	<b>59</b>	

- Please refer to page **12**.
- 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.)

## 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 9.)

Methods	Explanations
<b>Automatic reception</b>	Receives the signal every night.
<b>On demand reception</b>	Receives the signal when you want to adjust the time and date. See page 24.
<b>Recovery automatic reception</b>	Automatically receives the signal once after charging when the watch stops due to insufficient charge.

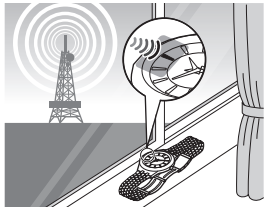
- \* These reception methods are possible only when the crown is in position **0**.
- The watch will not receive the time signal when in a low charge state as indicated by the second hand moving in two second increments (the insufficient charge warning). Charge the watch before reception.

- 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  $\pm 15$  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

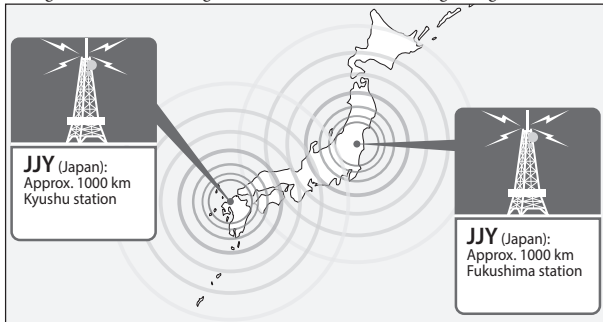
Refer to the maps on pages **19** to **21** to see the locations of the signal stations and their receivable area roughly.

- 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.

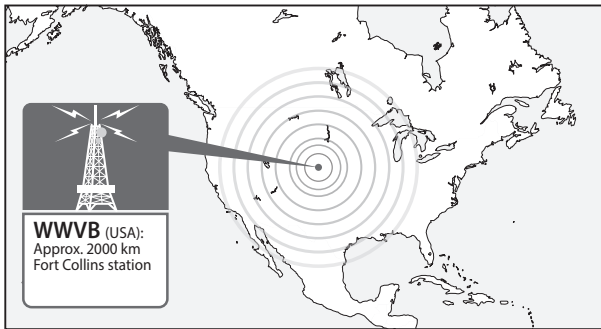
## Approximate receivable area

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.



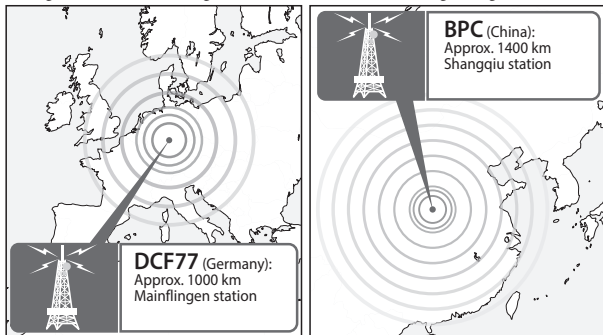
## Notes on the time signal reception

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## Notes on the time signal reception

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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 **19** to **21**, search for a better place for reception. Then, attempt to receive the time signal following the procedure on pages **24** and **25**.

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



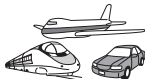
## Poor reception areas

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 *10* to *15*.

## Receiving the time signal manually (On demand reception)

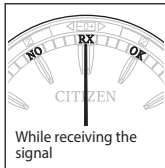
1. Ensure that the crown is in position **0**.
2. Press and hold the lower right button **A** for two or more seconds.

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

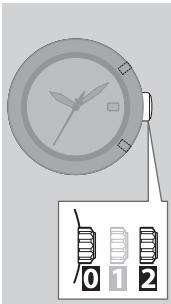
Summer Time is a system adopted in some countries/areas to gain an extra hour of daylight during summer by advancing clocks by one hour.

- 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.

Before setting the summer time, confirm that the World Time is set for the area where you are receiving the signal. See pages **10** to **15**.

## 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.

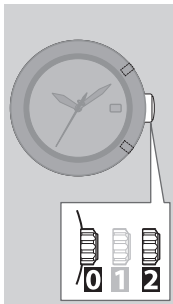
ON	Summer Time is shown
OFF	The standard time is shown

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



To change the time to show, see page 28.

### Changing the time to show



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

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 29.

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

The standard time is shown when you change the time difference. To show the summer time after changing the time difference, receive the time signal or perform the procedure above and select “ON.”

### **To cancel the automatic switching function**

If you manually show the standard time in step 2 on page **28**, 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**

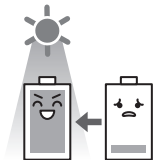
Select “ON” in step 2 on page **28** to show Summer Time.

- 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.
- If you change the time difference setting, the automatic switching function is activated.

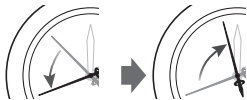
## Recharging your watch

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 8) or the time signal reception (page 9). 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	40 minutes	30 hours
Outdoors (cloudy)	10,000	12 minutes	1 hour	40 hours
20 cm (7-7/8 inches) away from a fluorescent lamp (30W)	3,000	40 minutes	2.5 hours	150 hours
Interior lighting	500	4 hours	14 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 two years (with power save feature)

Approximately six months (at normal operation)

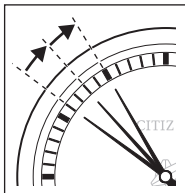
### Power reserve upon insufficient charge warning function (page 34):

Approximately three days

### 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 three days or more 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 more than seven days, 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.

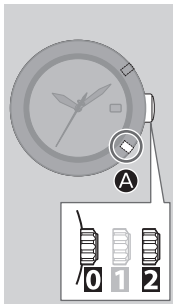
## To cancel the power save feature

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 **24** and **25**.

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

## 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.
- 4. Press the lower right button **A** briefly.**

The hour hand moves slightly.
- 5. Rotate the crown to adjust the hour.**
  - When it passes “0:00:00,” the date advances by one day. Be aware of the AM/PM status when you adjust the time.

**6. Press the lower right button  briefly.**

The date indicator moves slightly.

**7. Rotate the crown to adjust the date.**

**8. Press the lower right button  briefly.**

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

**9. Rotate the crown to adjust the month and year.**

- See pages 38 and 39 for how to read the month and year.

**10. Push the crown in to position  to finish the procedure.**

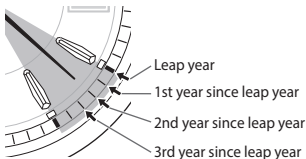
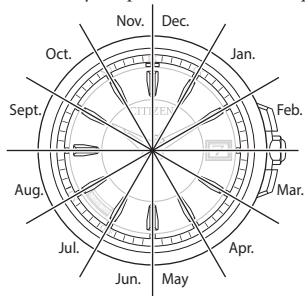
The time and date are indicated.

When adjusting the minute/hour/date, you can move the hands or date indicator continuously by spinning the crown quickly a few times. To stop them, rotate the crown in either direction.

## 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.



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 position of the second hand shows the month.





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.

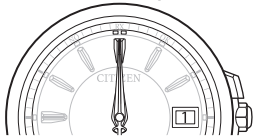
### What is the reference position?

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

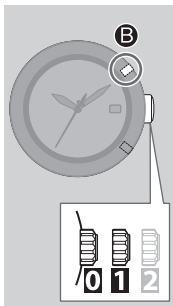
- **For the time indication: “0:00:00”**
- **For the date indication: “1”**

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



## Checking and correcting the current reference position



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

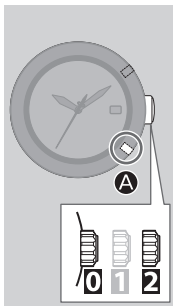
All hands and the date indicator move to indicate the current reference position.

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

Reference position	Next operation
Correct	Push the crown in to position <b>0</b> to finish the procedure. (You do not need to correct the reference position.)
Incorrect	Correct the reference position. (Proceed to step 3 on page <b>42</b> .)

Continued on the next page

## Checking and correcting the current reference position



- 3. Pull the crown out to position 2.**
- 4. Press the lower right button **A** briefly.**

The hour hand moves slightly.
- 5. Rotate the crown to adjust the hour hand to the "0:00:00" position.**
  - 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 **A** briefly.**

The minute hand and second hand move slightly.

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

- If you spin the crown quickly a few times, the hands will move continuously. To stop them, rotate the crown in either direction.

**8. Press the lower right button  briefly.**

The date indicator moves slightly.

**9. Rotate the crown to adjust the date to the "1" position.**

- If you spin the crown quickly a few times, the date indicator will move continuously. To stop it, rotate the crown in either direction.

**10. Push the crown in to position  to finish the procedure.**

Correction of the current 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 <b>0</b> .	–
	Check the World Time setting.	<b>10 to 15</b>
	Avoid things likely to interfere with the time signal and place the watch with the 9:00 position facing toward the station.	<b>17 and 22</b>
	Do not move the watch until the reception has finished.	<b>17</b>
	When the second hand moves once every two seconds, the watch cannot receive the time signal. Charge the watch.	<b>30 to 35</b>

Symptoms	Remedies	Page
The correct time and date are not indicated after successful reception.	Check the World Time setting.	<b>10 to 15</b>
	Check and correct the current reference position.	<b>40 to 43</b>

The hands do not work properly.

The second hand rotates counterclockwise when you check the reception result.	Charge the watch.	<b>30 to 35</b>
The second hand moves once every two seconds.	Charge the watch.	<b>30 to 35</b>
All hands stop moving.	Push the crown in to position <b>0</b> .	–
	Charge the watch by exposing it to direct sunlight for five to six hours.	<b>30 to 35</b>

Continued on the next page

## Troubleshooting

Symptoms	Remedies	Page
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.	<b>35</b>
The time and/or date is incorrect.		
The time and/or date is incorrect.	Check the World Time setting.	<b>10 to 15</b>
	Check and correct the current reference position.	<b>40 to 43</b>
	Receive the time signal manually to adjust the time and date.	<b>24 and 25</b>
	Set the time and date manually.	<b>36 to 39</b>
Summer Time is not shown.	Select "ON" manually or receive the time signal.	<b>26 to 29</b>



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.	<b>26 to 29</b>
	Check and correct the current reference position.	<b>40 to 43</b>
The date changes at around 12:00 p.m.	Receive the time signal manually to adjust the time and date.	<b>24 and 25</b>
	Adjust the time by 12 hours manually.	<b>36 to 39</b>
<b>Others</b>		
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, contact an authorized service center or the store where you purchased your watch.	<b>30 to 35</b>

### 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 **30** to **35**)
- **After performing All Reset, the settings change as follows. You must correct the current reference position, then time difference setting and time before using the watch.**
  - Calendar: January (leap year)
  - Time difference:  $\pm 0$  (UTC)
  - Summer time: "OFF" for all time differences (automatic switching)

1. Pull the crown out to position **2**.
2. Press the upper and lower right buttons **A** and **B**, then release them. The second hand moves to the "0" second position, the hour hand and date indicator move slightly, and the watch is reset.

### 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 42.

#### 2. Select a time difference.

See pages 10 to 15.

#### 3. Adjust the time/calendar.

- When adjusting by receiving the time signal manually:  
→ See pages 24 and 25.
- When adjusting manually:  
→ See pages 36 to 39.

## Eco-Drive Watch Handling Precautions

### <Always Make Sure to Recharge Frequently>

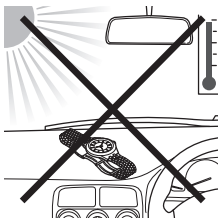
- For optimal performance, your watch should remain fully charged.
- Long sleeves may inhibit light transmission to your watch. This may result in your watch losing charge. In these cases supplemental charging may be necessary.
- When you take off the watch, place it in a bright location to ensure optimal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

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### <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)  $\times\times$  bar may also be indicated as W. R.  $\times\times$  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

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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.

## 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.

## Precautions and usage limitations

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### **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

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### **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.

## Precautions and usage limitations

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### **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>	H128	<b>Type</b>	Analog solar-powered watch
<b>Timekeeping accuracy (without the time signal reception)</b>	Within $\pm 15$ seconds per month when worn at normal operation temperatures (between $+5^{\circ}\text{C}$ ( $41^{\circ}\text{F}$ ) and $+35^{\circ}\text{C}$ ( $95^{\circ}\text{F}$ ))		
<b>Operating temperature range</b>	$-10^{\circ}\text{C}$ ( $14^{\circ}\text{F}$ ) to $+60^{\circ}\text{C}$ ( $140^{\circ}\text{F}$ )		
<b>Display functions</b>	<ul style="list-style-type: none"><li>• Time: Hours, minutes, seconds</li><li>• Calendar: Date</li></ul>		
<b>Maximum run time from full charge</b>	<ul style="list-style-type: none"><li>• Fully charged to fully discharged: Approximately two years (with power save feature) Approximately six months (at normal operation)</li><li>• Power reserve upon insufficient charge warning function: Approximately three days</li></ul>		
<b>Battery</b>	Rechargeable cell (lithium button cell), 1pc.		

**Additional functions**

- Solar power function
- Indicating charge of the watch remaining
- 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)
- Correcting the time difference
- Perpetual calendar (until February 28th, 2100)
- Antimagnetic performance/Impact detection function/Automatic hand correction function

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.CB3 \*

Cal.H128

CTZ-B8190