

CITIZEN®

INSTRUCTION MANUAL



Eco-Drive®

China	BPC
Japan	JJY

Europe	DCF77
North America	WWVB

EN Time signals available to this watch are as shown on the table.

FR Les signaux d'heure disponibles sur cette montre sont indiqués dans le tableau.

ES Las señales horarias disponibles para este reloj aparecen en la tabla.

DE Die für diese Armbanduhr verfügbaren Zeitsignale sind in der Tabelle aufgeführt.

IT Nella tabella vengono raffigurati i segnali orari disponibili per questo orologio.

PO Os sinais horários disponíveis para este relógio são os exibidos na tabela.

CT 本款手錶的可用時間訊號如表格所示。

CS 本款手表的可用时间信号如表格所示。

Caliber No. of this watch: H24*/H29*

Thank you for your purchase of this Citizen watch. Before using the watch, read this instruction manual carefully to ensure correct use.

Instruction manual on the web

You can access the web instruction manual of **H29*** using the QR code.

citizenwatch-global.com/support/html/en/h29/h29.html






- Refer to the web manual to check the latest news and information.
- You can also see how to use enhanced features and functions such as slide rules and tachymeters on the web site. It depends on models whether they are equipped with enhanced features and functions or not.



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 **70 - 83**) and understand the meaning of the following symbols:

- 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:
(Following symbols are examples of Pictograms.)

	Warning (caution) symbol followed by prohibited matters.
	Warning (caution) symbol followed by instructions that should be followed or precautions that should be observed.

Features

■ Radio controlled watch

Receives time signals from one of the five signal stations in four regions in the world and automatically adjusts the time and calendar.

■ Eco-Drive

No periodical battery replacement is needed. This watch is fueled by light.

■ World time

Indicates the time around the world by choosing one of 24 time zones.

■ Perpetual calendar (H24*)

No need for monthly and leap-year date correction until February 28, 2100.

* “Eco-Drive” is an original technology of Citizen.

CONTENTS

Before using this watch.....	8
Band adjustment.....	9
Protective stickers.....	9
How to use a specially designed crown/button.....	10
Component identification.....	12
Checking the power reserve	14
World time	16
Checking the time zone setting.....	16
Setting the time zone	21

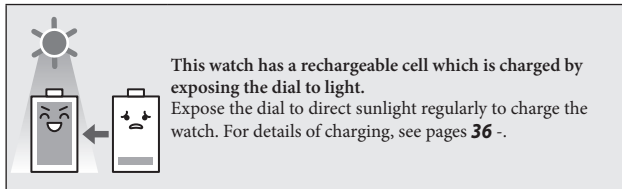
Summer time	22
Checking the time currently indicated	24
Switching summer time and standard time	26
Checking the previous signal reception result	32
Receiving the time signal manually (On demand reception)...	34
Charging your watch	36
About signal reception	42
Adjusting the time and calendar manually	49
H24*	49
H29*	54

Troubleshooting	56
Checking and correcting the reference position	56
H24*	56
H29*	60
Symptom and remedies	63
Resetting the watch - All Reset	68
Eco-Drive watch handling precautions	70
Water resistance	74
Precautionary items and usage limitations	77
Specifications	84

Before using this watch

The following three operations must be done before using the watch:

- 1 Checking the current remaining power reserve (page 14)**
- 2 Setting the world time (page 16)**
- 3 Checking the reception result of the time signal (page 32)**



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 (excluding products containing the band adjustment tool).

Consult an 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.

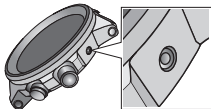
Screw down crown/button

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 button

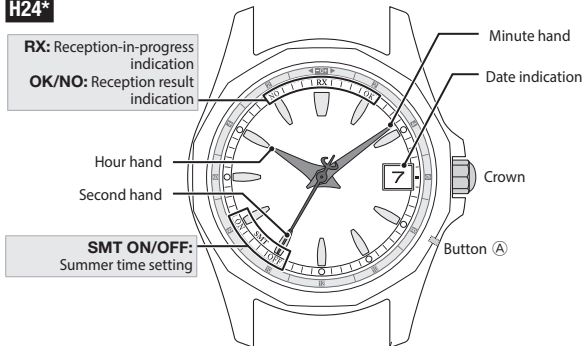
Press the button with a non-marring narrow-tipped object.



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

Component identification

H24*



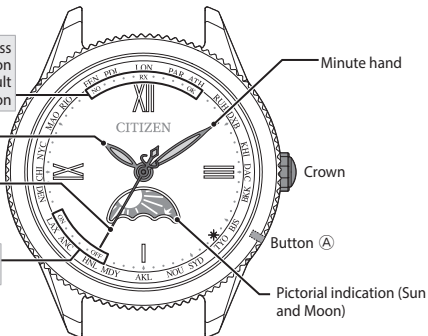
- The illustrations in this instruction manual may differ from the actual appearance of your watch.

H29*

RX: Reception-in-progress
indication
OK/NO: Reception result
indication

Hour hand
Second hand

SMT ON/OFF:
Summer time setting



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

Checking the power reserve

Movement of the second hand shows power reserve in the rechargeable cell.



1 Push the crown in to position 0.

2 Press and release the lower right button A.

The second hand moves as follows corresponding to the current power reserve status of the watch.

Movement of second hand	Power reserve status
The second hand points “OK” or “NO” immediately.	Power reserve is sufficient.
The second hand turns counterclockwise once and it points “OK” or “NO”.	Charging is needed.

- “OK” and “NO” are indication of signal reception result. They have no relationship with power reserve status.



3 Press and release the lower right button (A) to finish the procedure.

- The hand returns automatically in 10 seconds without pressing the button.

World time

This watch can indicate the time around the world according to which of 24 time zones (offsets from UTC — Coordinated Universal Time) is chosen.

Checking the time zone setting

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

The second hand indicates the current time zone setting.

- 2 After checking, push the crown in to position 0 to finish the procedure**

The watch returns to normal indication.

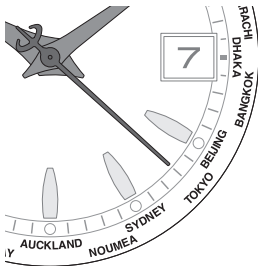


How to read indication of the time zone setting

The second hand indicates the current time zone setting. For time zones and positions of the second hand corresponding to them, see the table on the page **19**.

Ex.

On the illustration, the second hand points 22 seconds (UTC +9). The time zone UTC +9 includes Tokyo.



Correspondence of time zones and positions of the second hands

- Time zone setting is indicated with the position of the second hand as shown on the following table.
- Values on the “Time zone” column mean time difference between UTC and the standard time of time zones.
- To see world’s major cities’ time zone, refer to the web page below:
https://www.citizenwatch-global.com/support/html/en/h29/worldtime_04_h29.html
- The information of the time zones is that as of the time when the watch was released.
- Time zones whose “Signal station” has ♦ mark on the table are out of reception range and cannot receive its signals. Switching between summer time and standard time must be executed manually there.
- It may be difficult to receive the time signal properly under certain environmental conditions which prevent signals to reach.

Time zone	Second hand position	Signal station
0	0	Germany
+1	3	
+2	5	♦Germany
+3	8	
+4	10	
+5	13	♦China
+6	15	
+7	17	
+8	20	China
+9	22	Japan
+10	25	♦Japan
+11	27	

Continued on the next page

Time zone	Second hand position	Signal station
+12	30	♦Japan
-11	33	♦United States
-10	35	
-9	38	
-8	40	United States
-7	43	
-6	45	
-5	47	♦United States
-4	50	
-3	52	
-2	55	♦Germany
-1	57	

Setting the time zone



1 Pull the crown out to position 1.

The second hand indicates the current time zone setting.

2 Rotate the crown to select a time zone.

- The second hand indicates the current time zone setting. For time zones and positions of the second hand corresponding to them, see the table on the page **19**.
- Time and calendar are changed as you select a different one from the current one.

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

The watch returns to normal indication.

Summer time

About summer time

Summer time is a system adopted in some countries/areas to gain an extra daylight during summer.

- The standard time signals contain summer time signals, which tells it is summer time or not now.
- The summer time period varies depending on the country or area.
- The summer time rules may change depending on the country or area.

About summer time setting

- This watch can change summer time/standard time indication automatically by receiving summer time signals.
- You can also switch summer time setting manually.
- You can on summer time on or off for each time zone.
- For time zones of the North America and some parts of Europe, set summer time on or off for one of them may also switch summer time and standard time for others automatically. For details, see page **31**.

Checking the time currently indicated

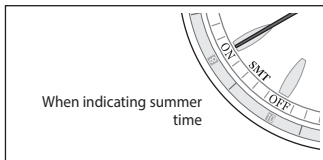
You can check whether the time currently indicated is summer time or the standard time.



1 Pull the crown out to position 2.

The second hand indicates the current summer time setting.

Indication of the second hand	Time currently indicated
SMT ON	Summer time
SMT OFF	Standard time





- “SMT” is omitted on some model.

2 After checking, push the crown in to position 0 to finish the procedure

The watch returns to normal indication.

Switching summer time and standard time

When you want to indicate summer time



1 Pull the crown out to position 1.

The second hand indicates the current time zone setting.

2 Rotate the crown to choose a time zone for which you want to change summer time setting.

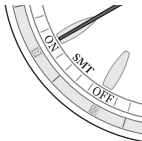
- The second hand indicates the current time zone setting. For time zones and positions of the second hand corresponding to them, see the table on the page **19**.

3 Pull the crown out to position 2.

The second hand indicates the current summer time setting.



4 Rotate the crown to select "SMT ON".



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

- Indication of summer time and the standard time switches automatically corresponding to the content of summer time signal hereafter.

When you want to indicate the standard time



1 Pull the crown out to position 1.

The second hand indicates the current time zone setting.

2 Rotate the crown to choose a time zone for which you want to change summer time setting.

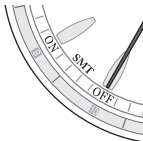
- The second hand indicates the current time zone setting. For time zones and positions of the second hand corresponding to them, see the table on the page **19**.

3 Pull the crown out to position 2.

The second hand indicates the current summer time setting.



4 Rotate the crown to select "SMT OFF".



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

- The standard time is always indicated regardless the content of summer time signal.

■ Automatic switching of summer time

This watch can switch summer time/standard time indication automatically when it receives standard time signals.

During a summer time period, the standard signals contains information that it is summer time now. The watch receives the information and switch the time indication to summer time automatically. When summer time ends, it works in the opposing way.

To switch summer time and the standard time automatically, make the summer time setting to “**SMT ON**” (→ page **26**).

- Doing this operation during non-summer-time period makes time indication summer time temporarily, but it returns to that of the standard time after receiving the standard time signal.

■ For users in North America and Europe

In time zones on the following table, receiving summer time signals in one of them automatically changes indication to summer time/standard time in the other zones covered by the same signal station.

- Nevertheless, if you change the summer time setting to “**SMT OFF**” manually in a time zone, the watch always indicates the standard time in the zone.

Signal station	Time zone				
United States	-9	-8	-7	-6	-5

Signal station	Time zone			
Germany	0	+1	+2	-1

Checking the previous signal reception result

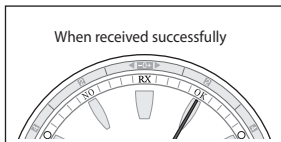


1 Push the crown in to position 0.

2 Press and release the lower right button (A).

The second hand indicates the result of the last signal reception.

OK	Reception was successful.
NO	Reception failed.



- Press the button again to return to normal indication. The hand returns to normal indication automatically in 10 seconds without pressing the button.
- If you had operated the crown after the previous signal reception, the second hand points “**NO**” regardless the reception result.

Receiving the time signal manually (On demand reception)

- For details of signal reception, see “About signal reception” (→ page 42).
- It takes up to 30 minutes to finish signal reception.
- Signals to receive are different depending on the time zone you set. For details, see the table on page 19.



1 Push the crown in to position 0.

2 Press and hold the lower right button (A) for 2 seconds or more.

The second hand indicates the result of the last signal reception.

After that, the second hand points “RX” and signal reception starts.



3 Put the watch in the place with good conditions for time signal reception.

Do not move the watch as far as possible while the second hand points “**RX**”.

The watch returns to normal indication after the reception finished.

To cancel signal reception

Pressing and holding the button while the second hand points “**RX**” for 2 seconds or more cancels signal reception and the watch returns to normal indication.

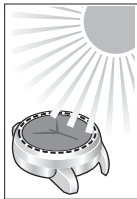
Charging your watch

This watch has a solar cell under the dial and stores the power generated by the cell in its built-in rechargeable cell.

The cell is charged by exposing the dial to light such as direct sunlight or fluorescent lamps.

For optimal performance, be sure to:

- **Put the watch in a location where the dial is exposed to bright light such as by the window even when it is not used.**
- **Expose its dial to direct sunlight for 5 or 6 hours at least every month.**
- **Avoid leaving it in dark places for long periods of time.**



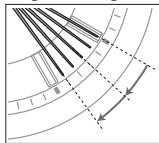
CAUTION

- Do not charge the watch at a high temperature (about 60°C (140°F) or higher) as doing so may cause movement malfunction.
 - If the watch is obscured from light by long sleeves frequently, supplemental charging may be needed to ensure continual operation.
-
- The watch stops charging automatically after finishing (overcharging prevention function). The function prevents damage to performance of the watch and rechargeable cell due to overcharging.

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. Be sure to fully charge your watch immediately as outlined below.

- When the watch is sufficiently charged, the second hand will move normally.
- If you left the watch without charging for a few days after the insufficient charge warning movement has begun, the watch will be depleted of all power and stop.



During the insufficient charge warning state

The time and calendar are indicated correctly. However, other functions of the watch will not be available for use.

Charging time by environment

Below are the approximate charging times when exposing to light continuously. Please use this table as a reference only.

- **Exposing to direct sunlight is recommended to charge your watch.** A fluorescent lamp or interior lighting does not have sufficient illumination to charge the rechargeable cell efficiently.

H24*



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	3 minutes	2.5 hours	35 hours
Outdoors (cloudy)	10,000	10 minutes	3 hours	50 hours
20 cm (7-7/8 inches) away from a fluorescent lamp (30 W)	3,000	35 minutes	5 hours	170 hours
Interior lighting	500	3.5 hours	25 hours	—

H29*

Environment	Illuminance (lx)	Charging time (approx.)		
		To work for one day	To start working normally when the cell is discharged	To become fully charged when the cell is discharged
Outdoors (sunny)	100,000	2 minutes	2.5 hours	18 hours
Outdoors (cloudy)	10,000	10 minutes	3 hours	70 hours
20 cm (7-7/8 inches) away from a fluorescent lamp (30 W)	3,000	35 minutes	5 hours	180 hours
Interior lighting	500	3.5 hours	25 hours	–

Power save function

The hands stop automatically to save power when the watch has been kept in a dark place for a certain period of time and it cannot generate power.

- The watch works normally even while saving power. However, signal reception is not executed.
- The power save function is not activated when the position of the crown is  1 or  2.
- The power save status ends and the hands return to normal indication as the dial is exposed to light and power generation starts. Hands and indication may move rapidly when the watch is returning to normal indication.

Duration without additional charging after charging the watch fully

See specifications (page **84**).

About signal reception


Types of signal reception

There are three ways to receive the time signal.

Type	Use
Automatic reception	The watch receives time signals once a day automatically.
Manual reception (On demand reception)	You can perform signal reception manually when required.
Recovery automatic reception	The watch automatically receives time signals when it is charged enough after it stopped due to insufficient charge.

- Even when this watch receives the signal successfully, the accuracy of the displayed time will be dependent on the reception environment and internal processing.
- This watch keeps ± 15 -second monthly accuracy even if no time signal is received.

■ When receiving the time signal

Take off the watch with pushing the crown in to position  and place it on a stable surface where it can receive the signal better, such as next to a window.

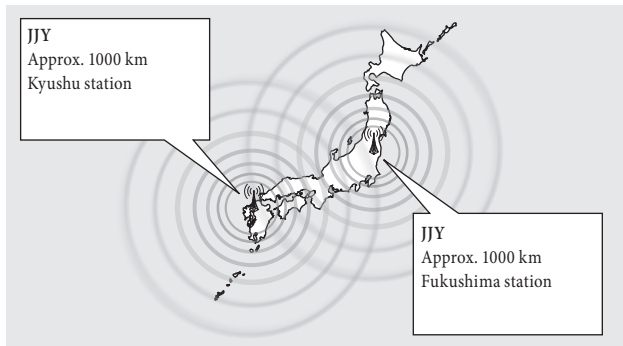
- When wire glass is used for the window, open it or change the reception place.
- The reception antenna is located at the 8:00 position of the watch. Place the watch with the 8:00 position facing toward the station.
- Do not move the watch during time signal reception.
- When the second hand is moving once every two seconds (during insufficient charge warning), time signal reception is not executed. Charge the watch before trying reception.

Note on the time signal

This watch receives time signals from the five signal stations located in four regions in the world.

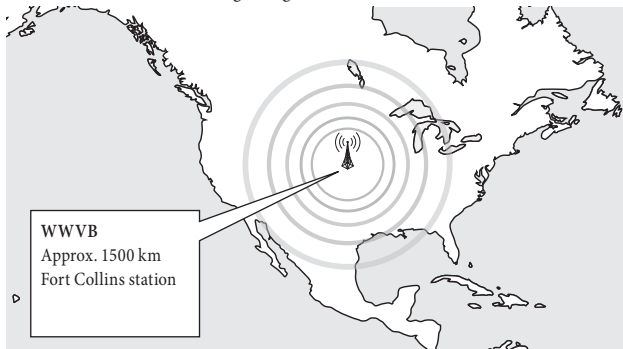
Signal stations	Kind of the time signal
Fukushima station (Japan)	JJY
Kyushu station (Japan)	
Fort Collins station (Denver, United States)	WWVB
Mainflingen station (Germany)	DCF77
Shangqiu station (Henan, China)	BPC

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

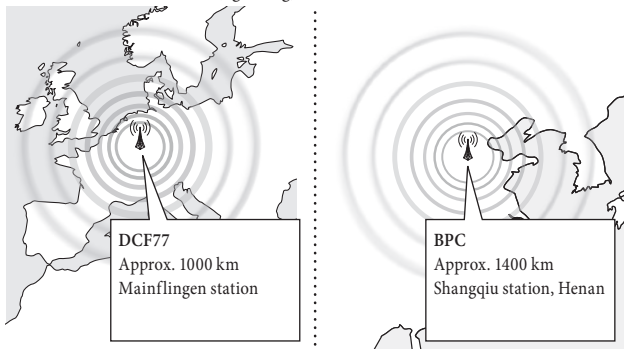


About signal reception

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



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



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-voltage electric cables, railway overhead cables, airports (transmission facilities)
- Inside reinforced concrete buildings, between tall buildings, mountains, or underground
- Near mobile phones or smartphones that are in use

Adjusting the time and calendar manually

H24*

- The calendar of this watch does not have to be adjusted manually until February 28, 2100 unless it was set incorrect or the watch was stopped. (Perpetual calendar)

1 Pull the crown out to position 2.

2 Press and release the lower right button (A).

The second hand points to 0 second.

3 Rotate the crown to set the minute.

- You can adjust the time in one minute increments. Each time you move the minute hand, the second hand turns fully around once.
- When you rotate the crown quickly a few times, the hand/indication will move continuously. To stop the rapid movement, rotate the crown in either direction.





4 Press and release the lower right button (A).

The hour hand slightly moves.

5 Rotate the crown to set the time and date.

- Change of date indication shows it just became AM. Take care the time set is AM or PM.
- Hour and date move synchronously.
- When you rotate the crown quickly a few times, the hand/indication will move continuously. To stop the rapid movement, rotate the crown in either direction.



6 Press and release the lower right button (A).

The second hand indicates the current month and year setting.

7 Rotate the crown to set year and month.

- Year and month are indicated with the second hand. Set them referring to pages **52 - 53**.

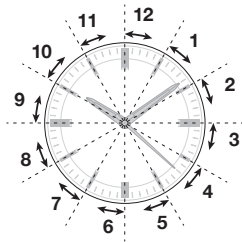
8 Push the crown in to position **0 in accordance with a reliable time source to finish the procedure.**

The watch returns to normal indication and the second hand starts moving from 0 seconds.

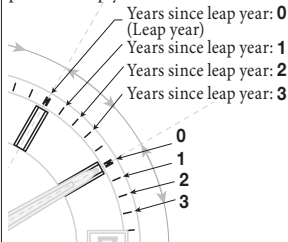
Month and year setting

Set the year and month with the the position of the second hand.

“Month” corresponds to one of the 12 zones shown with the arrows.

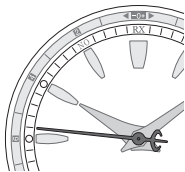


The year is indicated with the markers “0”, “1”, “2” and “3” of the range of each month. The numbers of markers correspond with years passed since the previous leap year.



Adjusting the time and calendar manually (H24)*

Year					Year(s) since leap year	Position of the marker
2020	2024	2028	2032	2036	0 (Leap year)	"0"
2021	2025	2029	2033	2037	1	"1"
2022	2026	2030	2034	2038	2	"2"
2023	2027	2031	2035	2039	3	"3"



Ex.: Position of the second hand when setting September 2021

You can find that the years since leap year of 2021 is "1" from the table and the second hand must be set to the 1st minute marker of September zone.

H29*



1 Pull the crown out to position 2.

2 Press and release the lower right button (A).

The second hand points to 0 second.

3 Rotate the crown to set the minute.

- You can adjust the time in one minute increments. Each time you move the minute hand, the second hand turns fully around once.
- When you rotate the crown quickly a few times, the hand/indication will move continuously. To stop the rapid movement, rotate the crown in either direction.

4 Press and release the lower right button (A).

The hour hand slightly moves.



5 Rotate the crown to set the time.

- When the moon of the pictorial indication (Sun and Moon) comes straightly above, it just became AM. Take care the time set is AM or PM.
- The hour hand and the pictorial indication (Sun and Moon) move synchronously.
- When you rotate the crown quickly a few times, the hand/indication will move continuously. To stop the rapid movement, rotate the crown in either direction.

6 Push the crown in to position **0** in accordance with a reliable time source to finish the procedure.

The watch returns to normal indication and the second hand starts moving from 0 seconds.

Troubleshooting

Checking and correcting the reference position

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

- Reference position is the base position of all hands and calendar to properly indicate the various functions of this watch.
- If the hands and indication do not reflect the correct reference position, the time and calendar will not be indicated accurately even if the time info is received.

H24*

Correct reference positions

- Hour, minute and second hands: 0 hours 00 minutes 0 seconds
- Date indication: midway between “31” and “1”





- 1 Pull the crown out to position 1.**
- 2 Press and hold the lower right button A for 5 seconds or more.**

The hands and indication move to their current reference position.

- Release the button as the hands start to move.
- Proceed to the next step when the hands and indication stop.

- 3 Check the current reference position.**

Refer to the figure on the previous page.

Correct	No adjustment is required. Push the crown in to position 0 to finish the procedure.
Wrong	Proceed to step 4 and correct the reference position.



4 Pull the crown out to position 2.

The hour hand slightly moves.

5 Rotate the crown to adjust the hour hand and the date indication to the correct reference position.

- Hour and date move synchronously.
- When you rotate the crown quickly a few times, the hand/indication will move continuously. To stop the rapid movement, rotate the crown in either direction.

6 Press and release the lower right button (A).

The minute and second hands move slightly.

- They are at the correct reference position if they do not move.



7 Rotate the crown to adjust the minute and second hands to the correct reference position.

- They may not move even if you rotate the crown when they are at the correct reference position.
- Consult a Citizen service center if they are at wrong reference positions and rotating the crown does not move them.

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

The watch returns to normal indication.

H29*

Correct reference positions

- Hour, minute and second hands: 0 hours 00 minutes 0 seconds
- Pictorial indication (Sun and Moon): the moon is at straightly above.





- 1 Pull the crown out to position 1 .**
- 2 Press and hold the lower right button (A) for 5 seconds or more.**

The hands and indication move to their current reference position.

- Release the button as the hands start to move.
- Proceed to the next step when the hands and indication stop.

- 3 Check the current reference position.**

Refer to the figure on the previous page.

Correct	No adjustment is required. Push the crown in to position 0 to finish the procedure.
Wrong	Proceed to step 4 and correct the reference position.



4 Pull the crown out to position 2.

The hour hand and the pictorial indication (Sun and Moon) move slightly.

5 Rotate the crown to adjust the hour hand and the pictorial indication (Sun and Moon) to the correct reference position.

- The hour hand and the pictorial indication (Sun and Moon) move synchronously.

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

The watch returns to normal indication.

Symptom and remedies

Symptom	Remedies	Page
Cannot receive time signals		
The second hand does not point "RX".	Charge the watch previously if required.	14, 36
	Push the crown in to position [0].	34
	Check the current reference position of the hands of the watch and correct it if needed.	56

Symptom	Remedies	Page
Cannot receive time signals (continued)		
Reception result indicated is “ NO ” after reception.	Check areas where time signals are receivable.	44
	Check the time zone setting.	16
	Remove the watch and place it on a stable surface where it can receive the signal better, such as next to a window facing the signal station.	43, 48
	If you had operated the crown after the previous signal reception, the second hand points “ NO ” regardless the reception result.	–

Symptom	Remedies	Page
Movement of a hand seems strange		
The second hand moves once every two seconds.	Insufficient charge warning function is active. Power reserve of the watch is nearly empty. Charge immediately.	38
The second hand does not move.	Push the crown in to position [0].	—
No hands move.	Charge the watch under direct sunlight until the second hand moves normally.	39
The hands start quick movement suddenly.	The power save function is canceled. Wait until the current time and calendar are displayed.	41

Symptom	Remedies	Page
Time/calendar is abnormal.		
Time/calendar is incorrect.	Check the time zone setting.	16
	Check the summer time setting.	24
	Receive the signals to adjust the time and calendar.	34
	Adjust the time and calendar manually.	49
	Check and correct the reference position of the hands.	56
Time/calendar becomes incorrect soon after manual adjustment.	Check and correct the reference position of the hands.	56

Symptom	Remedies	Page
Summer time and the standard time do not switch automatically.	Change the summer time setting to “ SMT ON ” and execute signal reception.	30
	Execute signal reception in a place where it is summer time.	42
The standard time is indicated though it is summer time.	Receive the time signal manually.	34
	Change the summer time setting to “ SMT ON ”.	26
Summer time is indicated though it is not summer time.	Receive the time signal manually.	34
	Change the summer time setting to “ SMT OFF ”.	28

Resetting the watch - All Reset

When the watch does not work properly, you can reset all the settings. If the power reserve is insufficient, charge the watch first.

Be sure to perform the following operations after All Reset.

1 Correct the reference positions.

After All Reset, the watch is in the reference position adjustment mode. Refer to step 5 and after of “Checking and correcting the reference position” on page **56**.

2 Set the world time.

See page **21**.

3 Adjust the time and calendar.

When adjusting them by receiving signals manually → page **34**

When adjusting them manually → page **49**



- 1 Pull the crown out to position **2**.
- 2 Press and hold the lower right button **A** for 7 seconds or more.

The hands start moving and All Reset is executed.

- It may take up to 6 minutes until the hands stop. Wait until their movement completely stops.

The setting values after All Reset	
Time	0:00:00AM
Calendar (H24*)	January 1 of leap year
World time	Time zone: 0
Summer time (DST) setting	SMT OFF at all time zones

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.

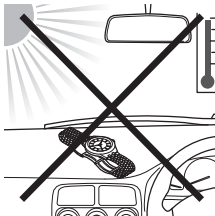


CAUTION Recharging Precautions

- 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.



<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.

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 “1bar” 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 and 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	Saturation diving using helium gas	Operate the crown or button when the watch is wet	
NO	NO	NO	NO	NO	NO	
OK	NO	NO	NO	NO	NO	
OK	OK	NO	NO	NO	NO	
OK	OK	OK	NO	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 be worn while skin diving or scuba 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 diving or saturated diving using helium gas.

Precautionary items 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 (use the crown and/or buttons) the watch when it 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 or 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.

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*/H29*	Type	Analog solar-powered watch
Timekeeping accuracy (without reception)	Average monthly accuracy: ±15 seconds when worn at normal operating temperatures between +5°C (41°F) and +35°C (95°F)		
Operating temperature range	-10°C (14°F) to +60°C (140°F)		
Display functions	H24*: <ul style="list-style-type: none">• Time: Hours, minutes, seconds• Calendar: Date		H29*: Hours, minutes, seconds, pictorial indication (Sun and Moon)
Duration	<ul style="list-style-type: none">• When fully charged, the watch runs without additional charging in normal use: Approximately 10 months/ When saving power: Approximately 3 years (H24*)/Approximately 4 years (H29*)• Power reserve upon insufficient charge warning function: Approximately 3 days		
Battery	Rechargeable cell (lithium button cell), 1pc.		

Additional functions	<ul style="list-style-type: none">• Solar power function• Overcharging prevention function• Insufficient charge warning function (two-second interval movement)• Power reserve indication (without levels)• Energy saving function (power save feature)• Receiving time signal (automatic, on demand, recovery automatic)• Signal stations: Japan (East/West)/USA/Germany/China• Automatic signal station selection function (for Japan standard signals only)• Confirming reception status (RX)• Indicating the result of the last reception (OK/ NO)• World time (24 time zones)• Summer time (SMT ON/OFF, Automatic/manual switching of summer time)• Perpetual calendar (until February 28th, 2100) (H24* only)• Antimagnetic performance/Impact detection function/Automatic hand correction function
-----------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Specifications and contents 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*・EE1*

Cal. H24*・H29*

CTZ-B8302