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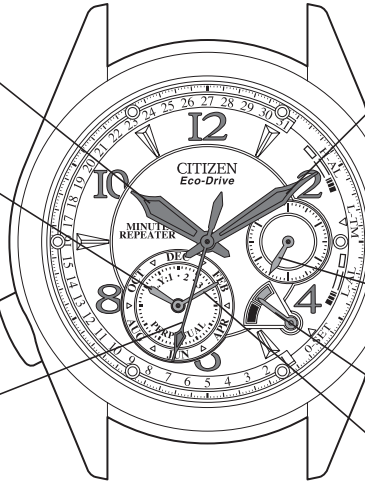
1. Features

This watch is equipped with numerous functions including a minute repeater function (chime function) that informs you of the time with an electronic tone as well as the following functions:

1. perpetual calendar that automatically corrects the date, including leap years;
2. daily alarm that sounds the alarm at the set time every day;
3. local time that displays the time in a region or foreign country located in a different time zone; and,
4. local alarm that sounds an alarm tone at the set time every day based on the time in the region or foreign country set in the local time mode.

Moreover, this watch is also equipped with a photoelectric power generation function that drives the watch by containing a solar cell in its face that converts light energy into electrical energy.

2. Names of Components



Main watch hour hand

Sub watch hour hand
· Local time hour hand
· Alarm hour hand
· Year hand (no. of years elapsed from most recent leap year)

Button (C)

Date & mode hand

Main watch minute hand

Button (B)

Crown

Main watch second hand

Button (A)

AM/PM hand

Sub watch minute hand
· Local time minute hand
· Alarm minute hand
· Month hand

* The illustrations shown in this manual may differ from the actual watch you have purchased.

Button	Main Operations
Button (A)	· Setting of local time · Setting year and month · Recalling year and month
Button (B)	· Minute repeater function · Setting date hand · Switching alarm ON/OFF
Button (C)	· Switching the mode · Checking the reference position

[NOTE]
Switches are not activated even when buttons (A) and (B) are pressed when the sub watch hour hand and sub watch minute hand are moving in coordination. Try pressing the button again after checking that the hands have stopped moving.

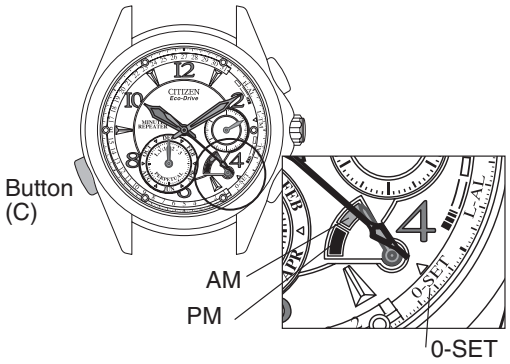
3. Before Using

Check the reference position of each hand by following the procedure described below before using the watch to ensure that each function operates properly.

Reference Position: This is the default position of each hand for ensuring that the watch functions properly.

1. Checking the Reference Position

(1) Set the crown to the normal position.
· Press button (C) for about 3 seconds or more until the date & mode hand moves to the reference position confirmation mode (0-SET).



· Check that each hand indicates the following positions.
Date & mode hand: 0-SET
Sub watch hour hand, sub watch minute hand: 12:00 position
AM/PM hand: Top of the AM zone

(2) After having checked the reference position, press button (A), (B) or (C) to return the watch to the time display. (In addition, the watch automatically returns to the time display after 20 seconds if none of the buttons are pressed.)

* If any hand does not indicate the reference position, set the reference position for each hand by following the procedure described in "4. Setting the Reference Position" on the following page.

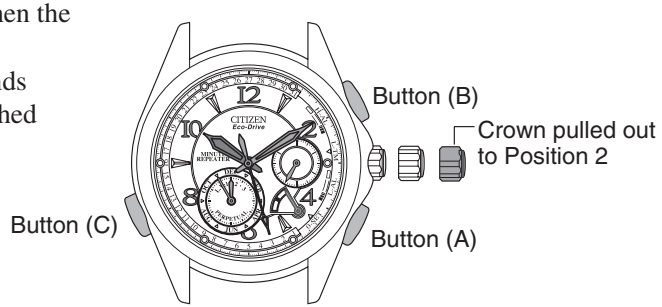
4. Setting the Reference Position

The functions of the watch will not operate properly if the reference position has shifted. If this happens, set the reference position by following the procedure described below.

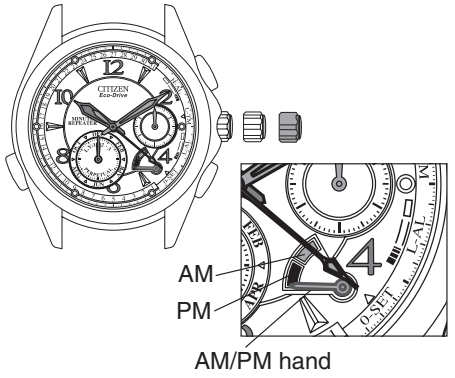
1. Perform the all-reset procedure

(1) Pull the crown out to Position 2.
(2) Press buttons (A), (B) and (C) simultaneously for 2 seconds or more.
(3) The date & mode hand, sub watch hour hand and sub watch minute hand move back and forth in that order when the buttons are released.
A confirmation tone sounds after the hands have finished moving.

· Next, proceed to setting the reference position.



If the crown is returned to the normal position or Position 1 after performing the all-reset procedure without setting the reference position, the "Reference Position Setting Warning" will be activated and the date & mode hand will move in the counter-clockwise direction to indicate that the reference position has not been set. Pull the crown out to Position 2 again and perform the procedure described in "Setting the Reference Position" above.



2. Set the reference position

(1) Press button (A) to align the sub watch hour hand and sub watch minute hand at the 12:00 position.

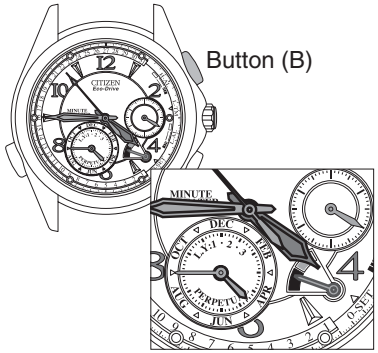
[NOTE]

· Advance the sub watch hour hand and sub watch minute hand until the AM/PM hand points to the bottom of the PM zone. The AM/PM hand moves in coordination with the sub watch hour hand and sub watch minute hand.

(2) Press button (B) to align the date & mode hand at the "0-SET" position.
· Pressing button (A) or (B) continuously causes the hands to advance continuously.
(3) Always make sure to return the crown to the normal position.
· The AM/PM hand moves to the AM zone.
* After setting the reference position, always make sure to reset the time (main watch time, sub watch time) and date.

5. Confirming the Time with the Electronic Tone (Minute Repeater)

· This convenient function informs you of the time (hours, minutes) with an electronic tone.



[Confirmation Procedure]

* The watch informs you of the current time with an electronic tone when button (B) is pressed for about one second in the time mode.
· The crown must be at the normal position.

<Interpreting the Electronic Tone>

Hours: A high-pitch tone sounds for the number of hours (since there is no distinction between AM and PM, check the position of the AM/PM hand to determine AM or PM).

Minutes: A combination high-pitch tone and low-pitch tone sounds for each 15 minute period followed by a low-pitch tone sounding for the remaining number of minutes.

<Example>

Time on the sub watch is 4:48 (check the AM/PM hand to determine whether this time is AM or PM).

4 hours: A high-pitch tone sounds four times (1 hour × 4 times).

45 minutes: A combination low-pitch and high-pitch tone sounds three times (15 minutes × 3 times).

3 minutes: A low pitch tone sounds three times (1 minute × 3 times).

6. Setting the Time and Date

1. Setting the Main Watch Time

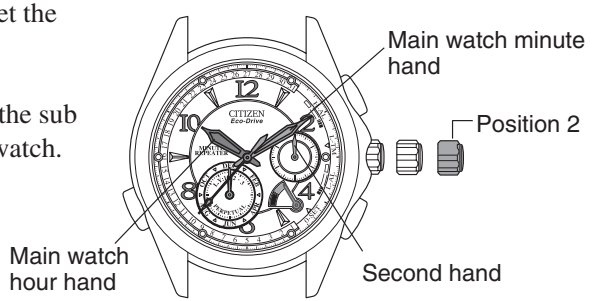
Once the time on the main watch has been set, always make sure to align the time on the sub watch with the time on the main watch. The minute repeater and each of the alarm functions will not operate properly if the times on the main watch and sub watch are not aligned.

(1) Pull the crown out to Position 2 when the second hand reaches 0 seconds.

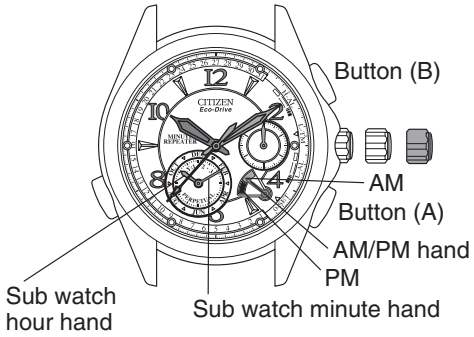
(2) Turn the crown to the right to set the hour and minute hands.

[NOTE]

· Continue by aligning the time on the sub watch with the time on the main watch.



2. Setting the Sub Watch Time



(1) Press button (A) to align the time on the sub watch with the time on the main watch.
- Continuously pressing button (A) causes the hands to move continuously.
- Check the position of the AM/PM hand to ensure that AM and PM are set correctly.

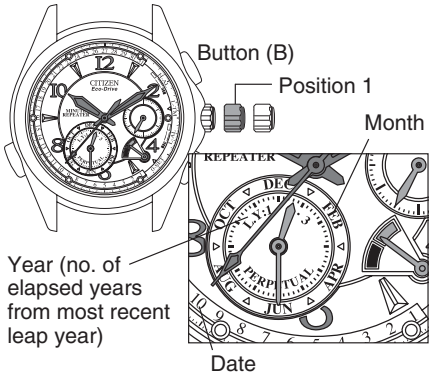
(2) When the crown is pushed in to the normal position in synchronization with a telephone time signal or other time service, the main watch hour hand and main watch minute hand begin to move from the 0 seconds position.

- If the time on the sub watch is not set after setting the reference position and setting the time on the main watch, the time setting warning function will be activated and the date & mode hand will advance rapidly in the clockwise direction.

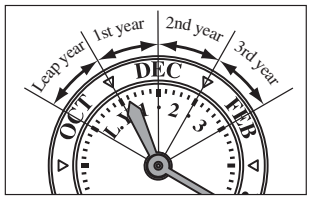
3. Setting the Date

(1) Pull the crown out to Position 1.
- The sub watch hour hand indicates the year (no. of years elapsed from most recent leap year), while the sub watch minute hand indicates the month.
- The date & mode hand indicates the date.

(2) Press button (A) to set the month and year (no. of elapsed years from most recent leap year).
- The display advances by one month each time button (A) is pressed.
- The sub watch hour hand automatically returns to January of a leap year after having indicated December of the third year from the most recent leap year.



<Reading the Year (No. of elapsed years from most recent leap year)>



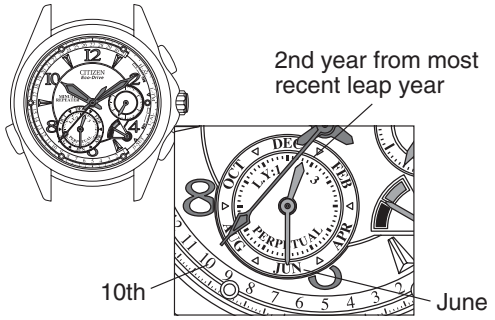
(3) Press button (B) to set the date.
· The date advances by one day each time button (B) is pressed.
· Pressing button (A) or button (B) continuously causes the hands to move continuously.
(4) Once the date has been set, return the crown to the normal position.

<Recalling the Date>

* The sub watch changes to the date display when button (A) is pressed for about 2 seconds in the time mode.
  Sub watch hour hand: Indicates the year (no. of elapsed years from the most recent leap year)
  Sub watch minute hand: Indicates the month
· The watch automatically returns to the time display after about 20 seconds after indicating the date. In addition, the watch can also be returned to the time display by pressing button (A), (B) or (C).

<Example> Reading the Date

When date is displayed as "June 10 of second year from most recent leap year":



<Quick Reference Chart for Number of Years Since Leap Year>

Year	Elapsed year
2004	Leap year
2005	1st year
2006	2nd year
2007	3rd year
2008	Leap year
2009	1st year
2010	2nd year

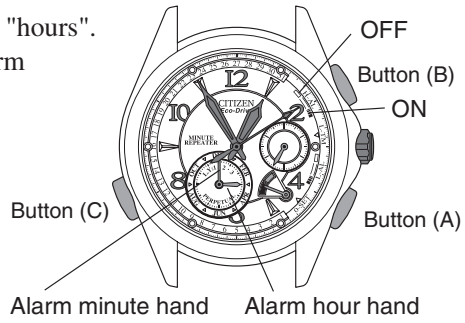
7. Daily Alarm (H-AL)

· The alarm tone sounds at the set time every day once the alarm has been set.

1. Setting the Alarm Time

(1) Press button (C) until the date & mode hand moves to the daily alarm mode (H-AL) (ON or OFF).
· The sub watch hour hand and sub watch minute hand switch to the previously set alarm time.
Sub watch hour hand: Indicates the alarm "hours".
Sub watch minute hand: Indicates the alarm "minutes".

(2) Press button (A) to set the sub watch hour hand and sub watch minute hand to the desired alarm time.
· Pressing button (A) continuously causes the hands to move continuously.



· When button (A) is pressed, the date & mode hand moves to the alarm ON position.
· Check the position of the AM/PM hand to ensure that AM or PM is set correctly for the alarm time.

[NOTE]
· The watch automatically returns to the time display if none of the buttons are pressed for about 1 minute.

2. Switching the Alarm ON and OFF

· The alarm is switched ON and OFF each time button (B) is pressed in the H-AL mode, and the date & mode hand moves.

3. Stopping the Alarm

· The alarm tone can be stopped from sounding by pressing any of buttons (A), (B) or (C) while the alarm tone is sounding.

4. Alarm Tone Monitor

· You can check the alarm tone by pressing button (B) for about 2 seconds in the H-AL mode.

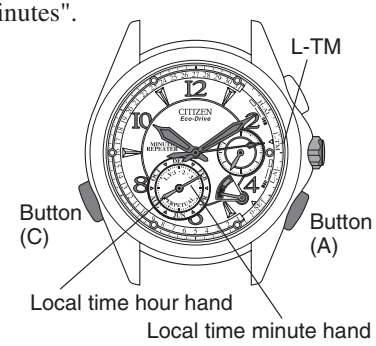
8. Local Time (L-TM)

· This function lets you set the time in another region or country.
· The time can be set in 30 minute units based on the time on the sub watch.

1. Setting the Local Time

(1) Press button (C) until the date & mode hand moves to the local time mode (L-TM).
  · The sub watch hour hand and sub watch minute hand switch to the previously set local time.
    Sub watch hour hand: Indicates the local time "hours".
    Sub watch minute hand: Indicates the local time "minutes".
  · The date & mode hand moves to L-TM.
(2) The hands advance in 30 minute intervals each time button (A) is pressed. Press button (A) to set the time to the time in the desired region or country.
  · Pressing button (A) continuously causes the hands to move continuously.
  · Check the position of the AM/PM hand to ensure that AM or PM is set correctly.

[NOTE]
· The watch automatically returns to the time display if none of the buttons are pressed for about 1 minute.

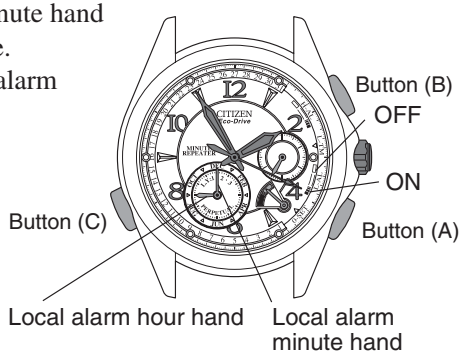


9. Local Alarm (L-AL)

· Once set, the alarm tone sounds at the set time every day based on the time in the region or country set in the local time mode.

1. Setting the Alarm Time

(1) Press button (C) until the date & mode hand moves to the local alarm mode (L-AL) (ON or OFF).
  · The sub watch hour hand and sub watch minute hand switch to the previously set local alarm time.
    Sub watch hour hand: Indicates the local alarm "hours".
    Sub watch minute hand: Indicates the local alarm "minutes".
(2) Press button (A) to set the sub watch hour hand and sub watch minute hand to the desired local alarm time.
  · Pressing button (A) continuously causes the hands to move continuously.



· When button (A) is pressed, the date & mode hand moves the alarm ON position.
· Check the position of the AM/PM hand to ensure that AM or PM is set correctly for the local alarm time.

[NOTE]

· The watch automatically returns to the time display if none of the buttons are pressed for about 1 minute.

2. Switching the Alarm ON and OFF

· The alarm is switched ON and OFF each time button (B) is pressed in the L-AL mode, and the date & mode hand moves.

3. Stopping the Alarm

· The alarm tone can be stopped from sounding by pressing any of buttons (A), (B) or (C) while the alarm tone is sounding.

4. Alarm Tone Monitor

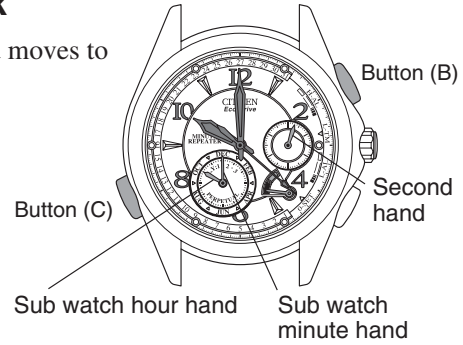
· You can check the alarm tone by pressing button (B) for about 2 seconds in the L-AL mode.

10. Seconds Correction Function (0-SET)

· This convenient function lets you synchronize the "seconds" of the main watch and sub watch to the time (seconds) of a telephone time signal or other time service. Use this function when the seconds of the watch are running too fast or too slow with respect to a telephone time signal and so forth.

1. Procedure for Setting to the "Seconds" of a Standard Clock

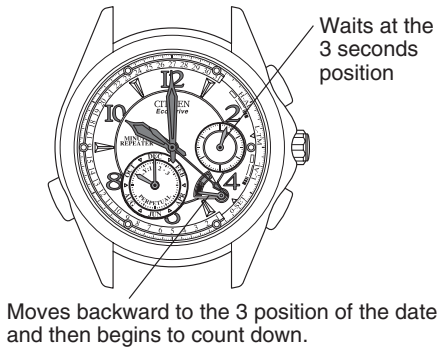
(1) Press button (C) until the date & mode hand moves to the "0-SET" seconds correction function.
· The sub watch hour hand and sub watch minute hand indicate the current time.
(2) Press button (B) in synchronization with a standard clock or other time signal.
*** The movement of the hands differs according to the position of the second hand on the watch.**



① When second hand is between 0 and 29 seconds (watch is running fast relative to the standard clock) :

· Second hand:
Waits at the same position for the amount of time (seconds) the watch is running fast.
(For example, if the watch is running fast by 3 seconds, the second hand waits at the same position for 3 seconds.)
· Date & mode hand:
Moves backward to the location of the date corresponding to the same number of seconds by which the watch is running fast, and then begins to count down from that position.
(For example, if the watch is running fast by 3 seconds, the date & mode hand moves backward to the 3 position of the date.)

<Example: Watch is running fast by 3 seconds relative to a standard clock>



② When the second hand is between 30 and 59 seconds (watch is running slow relative to the standard clock):

· Second hand: Returns to the 0 seconds position and begins to move.
· Date & mode hand: Waits at the 0-SET position.

Countdown Operation

· The date & mode hand informs you of the amount of time until the second hand begins to move in the case the second hand is between 0 and 29 seconds when button (B) has been pressed during correction.

[NOTE]

· The watch automatically returns to the time display if none of the buttons are pressed for about 2 minutes.

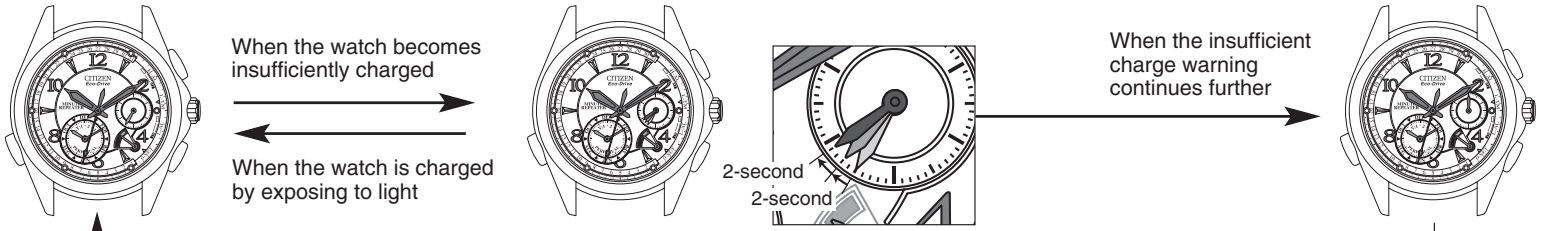
11. Functions Unique to Solar-Powered Watches

· When the watch becomes insufficiently charged, the watch display changes as shown below.

[Normal Time Display]

[Insufficient Charge Warning Display]
The second hand changes to 2-second interval movement. Promptly recharge the watch to return it to the normal time display (1-second interval movement).

[Stopped due to being Insufficiently Charged]
The second hand stops at the 0 seconds position and the other hands stop at the time the watch became insufficiently charged.



* Once the watch has stopped as a result of being insufficiently charged, it takes a minimum of about 30 minutes for the watch to start running again even if it is exposed to light.

<Insufficient Charge Warning Function>

· The second hand switches from 1-second interval movement to 2-second interval movement to indicate that the watch has become insufficiently charged.
The watch stops due to being insufficiently charged after about 5 days have passed since the start of 2-second interval movement.

<Over Charge Prevention Function>

· When the secondary battery becomes fully charged as result of light shining into the solar cell, the over charge prevention function is activated automatically to prevent the battery from being charged further. This prevents charging from having an effect on the secondary battery, timekeeping accuracy, functions or performance of the watch no matter how much the watch is charged.

12. General Reference for Charging Times

· The time required for charging varies according to the model of the watch (color of the dial, etc.). The following times are shown below to serve only as a reference.

Illuminance (lx)	Environment	Charging time		
		Approx. charging time for 1 day of operation	Approx. charging time from the stopped state until 1-second interval movement	Approx. charging time from the stopped state until fully charged
500	Inside an ordinary office	4 hours	40 hours	.....
1,000	60-70 cm (24-28 in) under a fluorescent lamp (30 W)	2 hours	17 hours	.....
3,000	20 cm (8 in) under a fluorescent lamp (30 W)	40 minutes	6 hours	180 hours
10,000	Outdoors, cloudy weather	15 minutes	2.5 hours	70 hours
100,000	Outdoors, summer, under direct sunlight	3 minutes	45 minutes	10 hours

· Charging time for 1 day of operation: Time required for charging the watch to run for 1 day at 1-second interval movement.

· Full charging time: Time required for maximally charging the watch when it is stopped due to being insufficiently charged.

[NOTE]

* The watch will continue to operate for about 9 months without additional charging once it has been fully charged. Once the watch has stopped as a result of being insufficiently charged, a considerable amount of time is required until it starts to run again as indicated in the table above. It is therefore recommended to charge your watch everyday. Furthermore, it is recommended to charge your watch by exposing to direct sunlight once a month.

13. Solar-Powered Watch Handling Precautions

<Try to keep the watch charged at all times>

Please note that if you frequently wear long sleeves, the watch can easily become insufficiently charged because of being hidden and not exposed to light. Try to keep the watch charged particularly during the winter.

CAUTION Charging Precautions

- Allowing the watch to reach high temperatures during charging can cause discoloration or deformation of external components or a malfunction of the components of the movement.
  Avoid charging the watch at high temperatures (about 60°C/140°F or higher).
  Examples:
  - Charging by placing the watch too close to a light source that may become hot such as an incandescent lamp or halogen lamp
  - Charging by placing the watch on an automobile dashboard that can easily reach a high temperature.
- When charging the watch with an incandescent lamp, halogen lamp or other light source that may reach a high temperature, always make sure to place the watch at least 50 cm (20 in) away from the light source to prevent the watch from reaching a high temperature.

WARNING Handling of Secondary Battery

- Never attempt to remove the secondary battery from the watch.
- If the secondary battery must unavoidably be removed, store it out of the reach of small children to prevent accidental swallowing.
- If the secondary battery should happen to be swallowed, consult a physician immediately and seek medical attention.
- Have the secondary battery replaced by an authorized service center if it becomes necessary to replace the secondary battery.

14. Replacing the Secondary Battery

- Although the secondary battery is not required to be replaced as a general rule, there may rarely be times when the secondary battery does not charge properly. If a problem should happen to occur, promptly have the secondary battery replaced by an authorized service center.

15. Troubleshooting

1. When the date & mode hand is moving backward
   · The Reference Position Setting Warning Function has been activated as a result not setting the reference position after performing the all-reset procedure. Perform the "All-Reset" and "Setting the Reference Position" procedures by referring to "4. Setting the Reference Position".
2. When the hands do not indicate the correct positions in each mode
   · The reference positions of the hands may be shifted if the watch is subjected to a strong impact. Perform the "All-Reset" and "Setting the Reference Position" procedures by referring to "4. Setting the Reference Position".
3. When the watch displays or operates incorrectly
   · The display and operation of the watch may rarely become incorrect (such as the hands continuing to rotate) due to the effects of static electricity or a strong impact and so forth. If this should happen, perform the "All-Reset" and "Setting the Reference Position" procedures by referring to "4. Setting the Reference Position".

4. When the date & mode hand is advancing rapidly in the clockwise direction
   · The "Time Setting Warning Function" has been activated as a result of not having set the time on the sub watch after having set the time on the main watch. Set the time on the sub watch by referring to "6. Setting the Time and Date".
5. When the second hand is moving at 2-second intervals
   · The "Insufficient Charge Warning Function" has been activated as a result of the capacity of the secondary battery having become low due to the watch being insufficiently charged. If this happens, promptly recharge the watch by referring to "12. General Reference for Charging Times".

[After Replacing the Secondary Battery]

· After the secondary battery has been replaced, perform the "All-Reset" and "Setting the Reference Position" procedures by referring to "4. Setting the Reference Position". The watch may not operate properly unless these procedures are performed.

16. Precautions

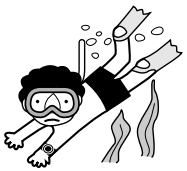
WARNING: Water-resistance performance

There are several types of water-resistant watches, as shown in the following table.

The unit "bar" is roughly equal to 1 atmosphere.

* WATER RESIST(ANT) xx bar may also be indicated as W.R. xx bar.

For correct use within the design limits of the watch, confirm the level of water-resistance of your watch, as indicated on the dial and case, and consult the table.

Indication		Specifications	Examples of use				
Dial	Case (case back)		 Minor exposure to water (washing face, rain, etc.)	 Moderate exposure to water (washing, kitchen work, swimming, etc.)	 Marine sports (skin diving)	 Scuba diving (with air tank)	 Operation of the crown or button with moisture visible
WATER RESIST or no indication	WATER RESIST(ANT)	Water-resistant to 3 atmospheres	**OK**	**NO**	**NO**	**NO**	**NO**
WR 50 or WATER RESIST 50	WATER RESIST(ANT) 5 bar or WATER RESIST(ANT)	Water-resistant to 5 atmospheres	**OK**	**OK**	**NO**	**NO**	**NO**
WR 100/200 or WATER RESIST 100/200	WATER RESIST(ANT) 10bar/20 bar or WATER RESIST(ANT)	Water-resistant to 10/20 atmospheres	**OK**	**OK**	**OK**	**NO**	**NO**

WARNING: Water-resistance performance

- Water-resistance for daily use (to 3 atmospheres): This type of watch is water-resistant to minor exposure to water. For example, you may wear the watch while washing your face; however, it is not designed for use underwater.
- Upgraded water-resistance for daily use (to 5 atmospheres): This type of watch is water-resistant to moderate exposure to water. You may wear the watch while swimming; however, it is not designed for use while skin diving.
- Upgraded water-resistance for daily use (to 10/20 atmospheres): This type of watch may be used for skin diving; however, it is not designed for scuba or saturated diving using helium gas.

CAUTION

- Be sure to use the watch with the crown pressed in (normal position). If your watch has a screw-lock type crown, be sure to tighten the crown completely.
- Do NOT operate the crown or button with wet fingers or when the watch is wet. Water may enter the watch and compromise water-resistance.
- If the watch is used in seawater, rinse with fresh water afterward and wipe with a dry cloth.
- If moisture has entered the watch, or if the inside of the crystal is fogged up and does not become clear within a day, immediately take the watch to your dealer or Citizen Service Center for repair. Leaving the watch in such a state will allow corrosion to form inside.

- 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, buttons, etc.) may come off.

CAUTION: Keep your watch clean.

- Leaving dust and dirt deposited between the case and crown may result in difficulty in pulling the crown out. Rotate the crown while in its normal position, from time to time, to loosen dust and dirt and then brush it off.
- Dust and dirt tend to be deposited in gaps in the back of the case or band. Deposited dust and dirt may cause corrosion and soil your clothing. Clean the watch occasionally.

Cleaning the Watch

- Use a soft cloth to wipe off dirt, perspiration and water from the case and crystal .
- Use a soft, dry cloth to wipe off perspiration and dirt from the leather band.
- To clean a metal, plastic, or rubber watchband, wash away dirt with mild soap and water. Use a soft brush to remove dust and dirt jammed in the gaps in the metal band. If your watch is not water-resistant, take it to your dealer.

NOTE: Avoid using solvents (thinner, benzine, etc.), as they may damage the finish.

CAUTION: Operating environment

- Use the watch within the operating-temperature range specified in the instruction manual. Using the watch where temperatures are outside the specified range, may result in deterioration of functions or even stoppage of the watch.
- Do NOT use the watch in places where it is exposed to high temperature, such as in a sauna. Doing so may result in a skin burn.
- Do NOT leave the watch in a place where it is exposed to high temperature, such as the glove compartment or dash-board of a car.
  Doing so may result in deterioration of the watch, such as deformation of plastic parts.
- Do NOT place the watch close to a magnet.
  Timekeeping will become inaccurate if you place the watch close to magnetic health equipment such as a magnetic necklace or a magnetic latch of a refrigerator door or handbag clasp or the earphone of a mobile phone. If this has occurred, move the watch away from the magnet and reset the time.
- Do NOT place the watch close to household appliances that generate static electricity. Timekeeping may become inaccurate if the watch is exposed to strong static electricity, such as is emitted from a TV screen.
- Do NOT subject the watch to a strong shock such as dropping it onto a hard floor.
- Avoid using the watch in an environment where it may be exposed to chemicals or corrosive gases.

If solvents, such as thinner and benzine, or substances containing such solvents come in contact with the watch, discoloration, melting, cracking, etc. may result. If the watch comes in contact with mercury used in thermometers, the case, band or other parts may become discolored.

Periodical inspections

Your watch needs inspection once in every two or three years for safety and long use.
To keep your watch water-resistant, the packing needs to be replaced regularly.
Other parts need to be inspected and replaced if necessary.
Ask for Citizen geuine parts upon replacement.

Storage

- When not using the watch for an extended period of time, carefully wipe off any perspiration, dirt or moisture from the watch and store in a location preferably free of high and low temperatures, high humidity.
- When not using your watch for an extended period of time,it is recommend to store it in a location that is exposed to light as much as possible.

17. Specifications

1. Model: G90*
2. Type: Multi-hand analog solar-powered watch
3. Timekeeping accuracy: Within ±15 seconds per month on average (when worn at normal temperatures of +5°C to +35°C/41°F to 95°F)
4. Operating temperature range: -10°C to +60°C/14°F to 140°F
5. Display functions:
· Time: Main watch (hours, minutes, seconds)
Sub watch (local time: hours, minutes, AM/PM)
· Date: Year (no. of elapsed years from most recent leap year), month, date
6. Additional functions:
· Minute repeater function (indicates the current time with an electronic tone)
· Perpetual calendar: Year, month and date are switched automatically through February 28, 2100 (including leap years)
· Daily alarm function: Sounds that alarm at the set time every day
· Local time function (can be set in 30 minute units): Displays the time in a region or foreign country located in a different time zone

· Local alarm function: Sounds the alarm at the set time every day based on the time in the region or foreign country set in the local time mode
· Seconds correction function: Aligns the seconds of the main watch and sub watch with the seconds of a standard clock
· Reference position setting warning function: Indicates that the reference position has not been set with the date & mode hand
· Time setting warning function: Date & mode hand indicates that the times on the sub watch and main watch have not been aligned after setting the reference position.
· Reference position check: Checks the reference positions of the date & mode hand, sub watch hour hand, sub watch minute hand and AM/PM hand
· Insufficient charge warning function: Indicates that the watch is insufficient charged by causing the second hand to switch to 2-second interval movement when the watch has become insufficiently charged
· Over charge prevention function: Interrupts charging automatically when the watch has become fully charged

7. Continuous Operating Times

· Time until watch stops due to being insufficiently charged after being fully charged:
Approx. 9 months

· Time until watch stops after insufficient charge warning function has been activated:
Approx. 5 days

8. Battery: Secondary battery, 1

* Specifications are subject to change without notice.