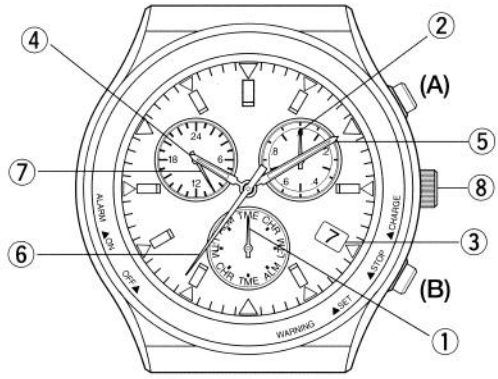
CITIZEN QUARTZ ECO-DRIVE CHRONOGRAPH

Model No. BL5XXX
Cal. E81*



1. Features

This watch is a solar powered watch that contains a solar cell in its face that drives the watch by converting light energy into electrical energy. It is equipped with numerous functions including a full auto calendar that changes the date automatically (day, month and year change through February 28, 2100 including leap years), a daily alarm function that can be set based on a 24-hour clock, and a chronograph function that allows measurement of time in 1/20 second units up to 59 minutes, 59.95 seconds.

2. Before Using

A secondary battery is used in this watch to store electrical energy. This secondary battery is a clean energy battery that does not contain mercury or other toxic substances. Once fully charged, the watch will continue to run for about 9 months without additional charging (when the power save feature is operating).

Power Save Feature

When power generation stops as a result of light not shining on the solar cell during the time display or local time display, the second hand stops at the 12:00 position and only the hour and minute hands move to save power. When light once again begins to shine on the solar cell, the second hand advances rapidly to the current seconds and returns to moving at one second intervals.

Proper Use Of This Watch

To use this watch comfortably, make sure to recharge it before it stops running completely. Since there is no risk of overcharging (Overcharging Prevention Feature), it is recommended that the watch be recharged every day.

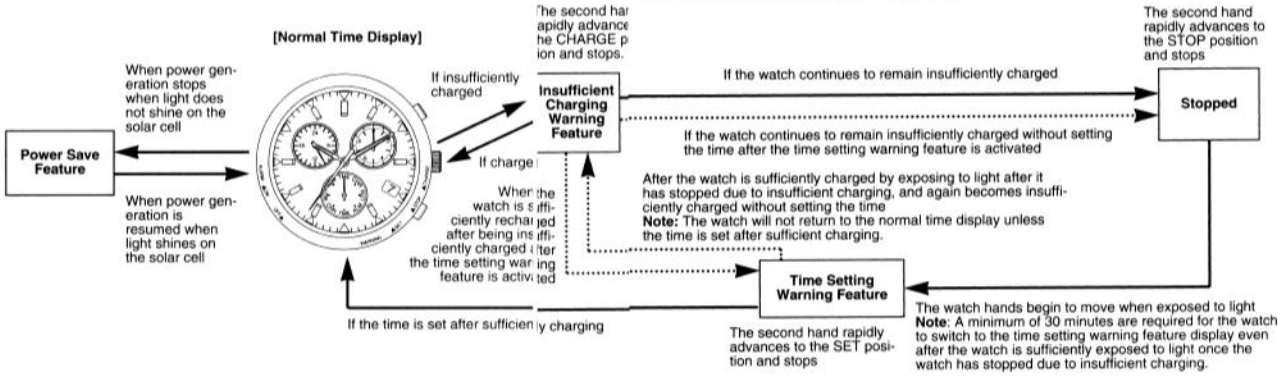
3. Names of Components

Name/Mode	Time/Calendar	Chronograph	Local Time	Alarm
① Mode hand	TME	CHR	L-TM	ALM
② Function hand	Stops at 0-position	Chronograph minutes, 1/20th seconds	Stops at 0-position	Stops at 0-position
③ Date	Displays date	Date display (TME or L-TM)	Displays date of local time	Date display (TME or L-TM)
④ Hour hand	Displays hours	Displays hours (TME, L-TM or ALM)	Displays hours of local time	Displays alarm hours
⑤ Minute hand	Displays minutes	Displays minutes (TME, L-TM or ALM)	Displays minutes of local time	Displays alarm minutes
⑥ Second hand	Displays seconds	Chronograph seconds	Displays seconds	Displays ON/OFF
⑦ 24 hour hand	24-hour time display in coordination with hour hand	24-hour time display in coordination with hour hand	24-Hour local time display in coordination with hour hand	24-hour alarm time display in coordination with hour hand

Name	Crown position	Time/Calendar	Chronograph	Local Time	Alarm
⑧ Crown	Normal position	Mode switching	Mode switching	Mode switching	Mode switching
	Position 1	Calendar correction	0-position check/correction (function hand, date wheel)	Local time display	Alarm ON/OFF setting
	Position 2	Time correction	0-position check/correction (second hand, 24 hour hand, hour hand, minute hand)	Local time correction	Alarm time correction (including ON/OFF switching)
Button (A)	Normal position	Not used	Start/stop, reset (pressing continuously for at least 2 seconds)	Not used	Alarm tone monitor (pressing continuously for at least 2 seconds)
	Position 1	Year correction	Function hand and date wheel 0-position correction	Not used	ON/OFF switching
	Position 2	Not used	Second hand 0-position correction	Not used	ON/OFF switching
Button (B)	Normal position	Not used	Recalls 1/20 seconds when stopped	Not used	Not used
	Position 1	Month correction	Not used	Not used	Not used
	Position 2	Not used	Not used	Not used	Not used

4. Functions Unique to Solar-Powered Watches

When the watch becomes insufficiently charged, the following warning features will be activated to inform the wearer that the watch is insufficiently charged.



Insufficient Charging Warning Feature

Regardless of the display of the watch at the time, when the watch becomes insufficiently charged, the watch changes to the time display and the second hand moves to the charge position to inform the wearer that it is insufficiently charged. After the second hand moves to the charge position, the watch changes to the time display in the order of the 24 hour hand, hour hand, minute hand and date wheel (function hand). Although the watch continues to keep time accurately at this time, the watch stops after about five days have elapsed (roughly two days in the case of the hands have been moved to switch the time when the insufficient charging warning feature is activated). When this happens, charge the watch by exposing to light so that it

returns to one-second interval movement. However, since the time is incorrect when the watch is exposed to light and changes to the insufficient charging warning display after it has stopped due to the insufficient charging, set the time after sufficiently charging the watch.

Notes:

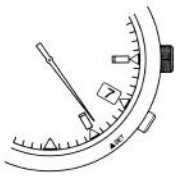
- Chronograph measurement stops and the chronograph is reset even when measurement is in progress.
- Set the time (time difference) is retained for the local time.
- The alarm will not sound even if it is set.
- Crown (mode switching) and button operations will not function.

Time Setting Warning Feature

When the watch is recharged by exposing to light after it has stopped, the second hand moves to the SET position to inform the wearer that the time is incorrect. Although the 24 hour hand, hour hand and minute hand will begin to move after the second hand moves to the SET position, since the time is incorrect, reset the time and date after sufficiently charging the watch.

Notes:

- Crown and button operations will not function except for time and calendar setting operations.
- When the crown is pulled out to position 2 (time correction position) in the time or date setting mode, the time setting warning feature is cancelled. The second hand will remain stopped at the SET position unless the crown is pulled out to position 2 and the time is set.
- In the case the watch has stopped due to insufficient charging, a minimum of 30 minutes are required until the watch changes to the time setting warning display even if sufficiently exposed to light.



Overcharging Prevention Feature

The overcharging prevention feature is activated when the secondary battery is fully charged so that it is not charged further.

Power Save Feature

When the power save feature is no longer generated as a result of light not shining on the solar cell when the watch is in the time/calendar mode or local time mode, the second hand moves to the 0 seconds position and stops to save power by reducing current consumption.

The 24 hour hand, hour hand and minute hand continue to keep the correct time even though the second hand is stopped. Furthermore, the calendar is corrected in coordination with the 24 hour hand, hour hand and the minute hand.

- During normal hand movement, when the power generation is resumed after the second hand stops at the 0 seconds position, the second hand is rapidly advanced to the current seconds and begins one-second interval movement. However, when the insufficient charging warning feature has been activated, the second hand moves to the CHARGE position and stops, and when the time setting warning feature has been activated, it moves to the SET position and stops. When the watch has stopped, the second hand moves to the STOP position and remains stopped.

Note:

- During the time the secondary battery is fully charged and the overcharging prevention feature is operating, the power save feature does not operate even when power generation is interrupted as a result of not exposing the solar cell to light. Similarly, the power save feature will also not operate when the secondary battery has temporarily become fully charged as a result of exposure to intense light.

5. General Reference for Charging Times

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

*Recharging time refers to the amount of time the watch is continuously exposed to light.

Illuminance (lx)	Environment	Charging time		
		Charging time for 1 day of operation	Charging time from the stopped state to 1-second interval movement	Full recharging time
500	Inside an ordinary office	2.5 hours	48 hours	337.5 hours
1,000	60-70 cm (24-28in.) under fluorescent light (30W)	40 minutes	20 hours	134.5 hours
3,000	20 cm (8in.) under fluorescent light (30W)	10.5 minutes	7 hours	42.5 hours
10,000	Outdoors, cloudy weather	5 minutes	2.5 hours	12 hours
100,000	Outdoors, summer, under direct sunlight	1.5 minutes	1 hour	4 hours

Full recharging time : Time required for recharging the watch from the stopped state to fully charged.
Charging time for 1 day of operation : Time required for recharging the watch to run for 1 day at 1-second interval movement.

6. Notes Regarding Handling of this Watch

Try to keep the watch charged at all times

Please note that if you wear long sleeves, the watch can easily be insufficiently charged as a result of it being concealed and unable to be exposed to light.

- When you take the watch off, try to place it in as bright a location as possible to ensure that it always keeps the correct time.

⚠CAUTION Charging Precautions

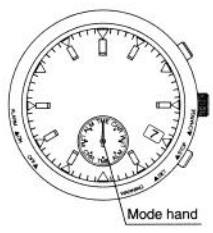
- Avoid recharging at high temperatures (over about 60˚C/140˚F) since this may result in damage to the watch during recharging.
  Examples: Charging the watch in close proximity to an incandescent lamp, halogen lamp or other light source that can easily reach high temperatures, charging the watch in a location that reaches high temperatures such as on a car dashboard.
- When charging the watch with an incandescent lamp, always make sure the watch is at least 50cm (20in.) away from the lamp so that it does not reach excessively high temperatures during charging.

7. Replacing the Secondary Battery

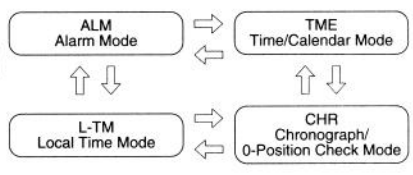
Unlike ordinary batteries, the secondary battery used in this watch does not have to be periodically replaced since it is unable to be charged and discharged repeatedly.

8. Switching the Mode (Display Function)

This watch is equipped with four modes consisting of time/calendar, chronograph, local time and alarm. Since the mode changes when the crown is turned, the current mode can be confirmed with the mode hand.



[Modes/Display Functions]



9. Hand 0-Position Check and Correction

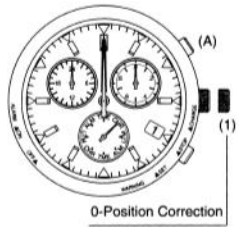
Before using this watch, check that the functions of the watch operate properly by performing the following procedure.

0-Position: This refers to the base position of each hand that enables the watch to function properly.

[0-Position Check]

1. Turn the crown to switch the watch to the chronograph [CHR] mode.
2. Pull the crown out to position 1 to check the 0-position (function hand and date wheel correction mode). Confirm that the 24-hour hand, hour hand, minute hand, second hand and function hand rapidly advance to the 0 position, and the date wheel displays “1”.

0 positions of each Hand (Base Positions):
24-hour hand: 24:00
Hour hand, minute hand: 00:00
Second hand: 00 seconds
Function hand: 0 position
(12:00 position)
Date wheel: 1st



Perform the “0-Position correction” when the hands and date wheel are not at the positions indicated above.

[0-Position Correction]

0-Position Correction of Function Hand and Date Wheel:

1. Pull the crown out to Position 1 in the chronograph [CHR] mode to correct the function hand and date wheel.
2. Click (turn) the crown to the left to align the date wheel.
   (1) Clicking the crown once causes the function hand to make four revolutions and the date to be corrected by one day.
   (2) Turning the crown rapidly (clicking continuously two or more times) causes the function hand to advance continuously. When stopping the function hand, click the crown once to the right or left. When the function hand is not stopped manually, it stops automatically after advancing 31 days.

   The 12:00 position immediately after the date changes to the “1st” is the 0-position of the function hand. After correcting the date wheel to the “31st” by turning the crown, press button (A) to finely correct the function hand so that the function hand is aligned at the 0 position after the date wheel changes to the “1st”.

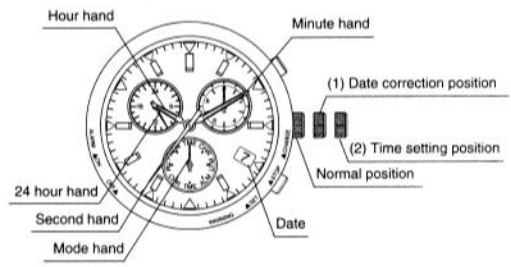
0-Position Correction of 24 Hour Hand, Hour Hand, Minute Hand and Second Hand:

1. Pull the crown out to Position 2 in the chronograph [CHR] mode to correct each hand.
2. Pressing button (A) causes the second hand to be corrected by one second at a time each time it is pressed. Continuously pressing button (A) causes the second hand to advance rapidly.
3. Clicking the crown allows correction of the 24 hour hand, hour hand and minute hand.
   (1) Clicking the crown once to the right causes the hour and minute hands to move clockwise.
   (2) Clicking the crown once to the left causes the hour and minute hands to move counter-clockwise.
   • Turning the crown rapidly (clicking continuously two or more times) causes the hands to advance rapidly. When stopping the hands, click the crown once to the right or left. When the hands are not stopped manually, they stop automatically after being corrected by 12 hours.

10. Setting the Time and Date

[Setting the Time]

1. Turn the crown and align the mode hand at the time/calendar [TME] mode.

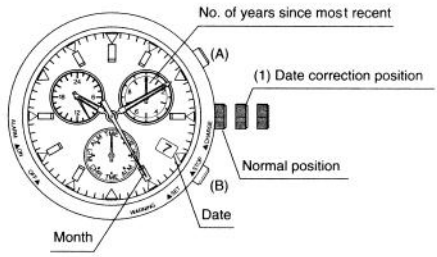


2. When the crown is pulled out to Position 2 (time setting position), the second hand rapidly advances to the 0 position and stops.
   Note: When the second hand does not stop at the 0 seconds position, reset the base position in the “0-Position Correction Mode”.
   Note: If the crown is pulled out to Position 2 when the date is changing, the date wheel and function hand stop at that time, and are then advanced by the remaining amount after the second hand is rapidly advanced to the 0 seconds position.
3. Click (turn) the crown to set the time.
   (1) Clicking the crown once to the right causes the 24-hour hand, hour hand and minute hand to move in the clockwise direction.
   (2) Clicking the crown once to the left causes the 24-hour hand, hour hand and minute hand to move in a counter-clockwise direction.
   • Turning the crown rapidly (clicking continuously two or more times) causes the hands to advance rapidly. When stopping the hands, click the crown once to the left or right. When the hands are not stopped manually, they stop automatically after being corrected by 12 hours.

4. Return the crown to the normal position in synchronisation with a telephone time signal or other time service.

[Setting the Date]

The calendar function of this watch is a full-auto calendar that changes the year, month and date automatically, including leap years.



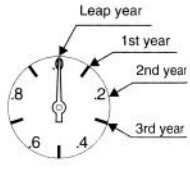
1. Turn the crown to switch the watch to the time/ calendar [TME] mode.
2. When the crown is pulled out to Position 1 (date correction position), the second hand rapidly advances to the month display position stored in the memory, while the function hand moves to the year display position (number of years elapsed since the most recent leap year), after which both stop.
   Note: If the crown is pulled out to Position 1 when the date is changing, the second hand advances rapidly after the date changes.
3. Click (turn) the crown to the left to set the date.
   - Clicking the crown once to the left causes the function hand to make four revolutions and the date to be corrected by one day.
   - Turning the crown rapidly (continuously clicking two or more times) causes the hand to advance continuously. When stopping the hand, click the crown once to the right or left. When the hand is stopped manually, it stops automatically after being advanced 31 days.
4. Pressing button (A) allows correction of the year (number of years elapsed since the most recent leap year).
   Press button (A) and align the function hand at the position corresponding to the year (number of years elapsed since the most recent leap year).

Interpretation of Year/Position of Function Hand

Leap year: 0 min position
1 year after most recent leap year: 6 min position
2 years after most recent leap year: 12 min position
3 years after most recent leap year: 18 min position

Quick Reference Table for No. of Years Since Most Recent Leap Year:

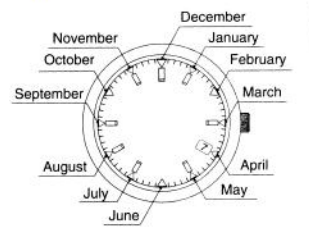
Year	Years elapsed	Year	Elapsed years
2000	Leap year	2004	Leap year
2001	1st year	2005	1st year
2002	2nd year	2006	2nd year
2003	3rd year	2007	3rd year



5. Pressing button (B) allows correction of the month. Press button (B) and align the second hand at the position corresponding to the month.

*** Interpretation of Month/ Position of Second Hand***

January: 1:00 position
February: 2:00 position
March: 3:00 position
:
December: 12:00 position



6. Return the crown to the normal position after setting the date. The watch will resume keeping time once the second hand catches to the current seconds.

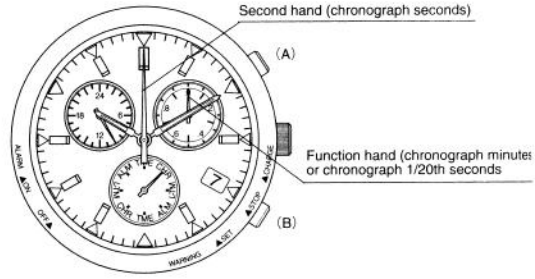
<When the calendar has been set to a non-existent date>

When the crown is returned to the normal position from the date correction mode, the watch switches to the first day of the following month.

Example: February 29, 30 or 31 in an ordinary year
->March 1
February 30 or 31 in a leap year
->March 1

11. Using the Chronograph

The chronograph is able to measure time up to a maximum of 59 minutes, 59.95 seconds in 1/20th second units, after which resets to 0 seconds.



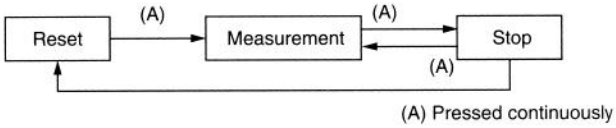
[Explanation of Hands During Chronograph Measurement]

When the crown is turned and the mode hand is set to the chronograph [CHR] mode, the second hand and function hand are rapidly advanced to the 0 position and the watch enters the chronograph mode.

- Second hand:
  Switches to the chronograph second hand. The second hand advances rapidly and makes one revolution only when starting at 0 seconds, after which it moves in 1 second increments to measure chronograph seconds.
- Function hand:
  Switches to either chronograph minutes or chronograph 1/20th seconds. The function hand moves in one minute increments to measure chronograph minutes. When button (B) is pressed when the chronograph is stopped, the function hand switches to 1/20th seconds display during time button (B) is pressed.

Note: 24 hour hand, hour hand, minute hand, date wheel:
- Continue to display the current time when the watch has been switched from the time/calendar mode.
- Continues to display local time when the watch has been switched from the local time mode.
- Continues to display the alarm set time when the watch has been switched from the alarm mode.

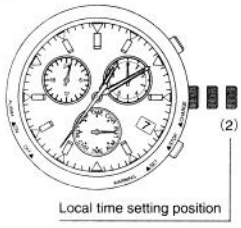
[Chronograph Measurement]
1. Turn the crown to set the mode hand to the chronograph [CHR] mode.
2. Press button (A) to start and stop the chronograph. A confirmation tone is heard whenever button (A) is pressed.
3. Continuously pressing button (A) when the chronograph is stopped causes the chronograph second hand and chronograph minute hand to be reset to the 0 position.



(A) Pressed continuously

12. Setting Local Time
The local time function allows the time in a different time zone to be set separately from the current time. Local time is set by performing a time difference correction in 1 hour units based on the current time (time of the time mode/TME). The minute and second hands move in co-ordination with the current time.

[Time Difference Correction Procedure]



Local time setting position

1. Turn the crown to set the mode hand to the local time [L-TM] mode.
2. Pull out the crown to Position 2 (local time setting position).
3. Click the crown to the right or left to correct the time difference.

- When the crown is clicked to the right, the hour hand moves by 1 hour in the clockwise direction.
- When the crown is clicked to the left, the hour hand moves by 1 hour in the counter-clockwise direction.

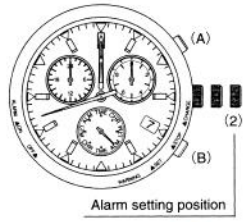
Note: The hour hand is not advanced rapidly even if the crown is continuously clicked two or more times. Perform correction accurately 1 hour at a time. Furthermore, the range of time difference correction is ±23 hours based on the current time.

4. Always make sure to return the crown to the normal position after correcting the time difference.

Note: If the hour hand passes 12:00 AM (midnight) during correction, the date is advanced by one day following the completion of hand movement. If the time difference is corrected in the counter-clockwise direction and the hour hand passes back over 12:00 AM, although the date is corrected following completion of hand movement, since the date is corrected by 30 days in the clockwise direction, it takes about 2-3 minutes for the date to be corrected. Pay attention to AM and PM when correcting time difference.

Note: When returning the time difference to the original setting, return the hour hand in the direction opposite that when the time difference was corrected.

13. Using the Alarm
The alarm function uses a 24-hour clock. Once the alarm has been set, the alarm sounds for 15 seconds when the time is reached once a day. The time at which the alarm sounds applies to the time (TME) mode, and cannot be set based on the local time (L-TM).



Alarm setting position

[Setting the Alarm Time]
1. Turn the crown and set the mode hand to the alarm [ALM] mode.
   - Second hand: Moves rapidly to the ON or OFF position
   - 24 hour hand, hour hand, minute hand: Move the previously set alarm time.
   - Function hand: Stops at the 0 position.
2. Pull out the crown to position 2 (alarm setting position).
   - The alarm setting is turned ON automatically.
3. Click (turn) the crown to set the alarm time.
   (1) Clicking once to the right causes the hour and minute hands to move clockwise.
   (2) Clicking once to the left causes the hour and minute hands to move counter-clockwise.
   - Turning the crown rapidly (continuously clicking two or more times) causes the hands to advance rapidly. When stopping the hands, click the crown once to the right or left. When the hands are not stopped manually, they stop automatically after being corrected by 12 hours.
   - Set the alarm while making sure not to mistake AM and PM by referring to the 24 hour hand.
4. Return the crown to the normal position after setting the alarm time.

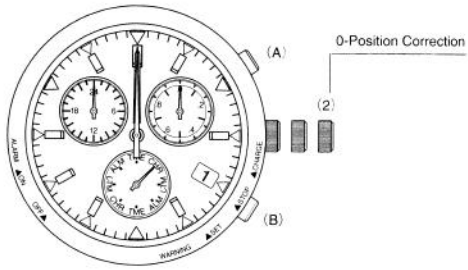
[Switching Alarm ON and OFF]
The alarm is switched ON and OFF each time button (A) is pressed when the crown is pulled out to Position 1 or Position 2 in the alarm mode.

[Alarm Tone Monitor]
When button (A) is pressed with the crown in the normal position in the alarm mode, the alarm tone sounds for as long as button (A) is pressed.

[Stopping the Alarm Tone]
Press either button (A) or (B) to stop the alarm tone while it is sounding.

14. All-Reset

This watch may not function properly as a result of being subjected to the effects of static electricity or strong impact and so forth. When this happens, set the hands of the watch to their respective base positions according to the following procedure after performing the all-reset procedure.



When performing the all-reset procedure, first make sure that the watch is fully charged and the second hand is moving in one second increments. If the all-reset procedure is performed when the watch is insufficiently charged, it may not function properly or remain stopped following the all-reset procedure.

1. Turn the crown to set the mode hand and the chronograph [CHR] mode.
2. Pull out the crown to Position 2 (0 position correction mode).
   • Each of the hands and date wheel move to their respective 0 positions stored in the memory and then stop.
3. Press buttons (A) and (B) simultaneously and then release.
   • Following a confirmation tone, each of the hands perform a demonstration movement in the order of the function hand, 24 hour hand, hour hand, minute hand and second hand to indicate that the all-reset procedure is finished.

Note: Following the all-reset procedure, make sure to properly reset each mode after performing 0-position correction for each hand before using the watch. The watch will remain stopped and not run unless 0-position correction is performed.

15. Precautions

CAUTION: 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		Specification	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

- 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-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 Centre 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 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 block 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 mar 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 dashboard 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 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, discolouration, melting, cracking, etc., may result. If the watch comes in contact with mercury used in thermometers, the case, band or other parts may become discoloured.

16. Specifications

- **Model:** E81*
- **Type:** Analog solar powered watch
- **Accuracy:** Within ±15 seconds per month (when worn at normal temperatures of +5˚C to +35˚C/ 41˚F to 95˚F)
- **Operating temperature range:**
  * Watch operating temperature range: –10˚C to +60˚C/14˚F to 140˚F
  * Power save feature operating temperature range: –10˚C to +35˚C/14˚F to 95˚F
  * Time correction operating temperature: –5˚C to +60˚C/23˚F to 140˚F
- **Display functions**
  Time: 24 hours, hours, minutes, seconds
  Calendar: Date display by a date wheel (with continuous advance function)
  Month display by second hand
  Year display by function hand (years elapsed from most recent leap year)
- **Additional functions:**
  Power save feature
  Time setting warning feature
  Insufficient charging warning feature
  Overcharging prevention feature
  Chronograph (60 minute measurement, 1/20th second units)
  Local time (time difference correction: 1 hour units)
  Alarm (24 hour clock, alarm monitor, alarm ON/OFF)
- **Continuous running times:**
  Fully charged to stopped: Roughly 9 months (when power save feature is operating)
  2-second interval movement to stopped: Roughly 5 days (roughly 2 days in the case the hands have been moved to switch the time when the insufficient charging warning feature is activated)
- **Battery:** Secondary battery

*Specifications are subject to change without notice.