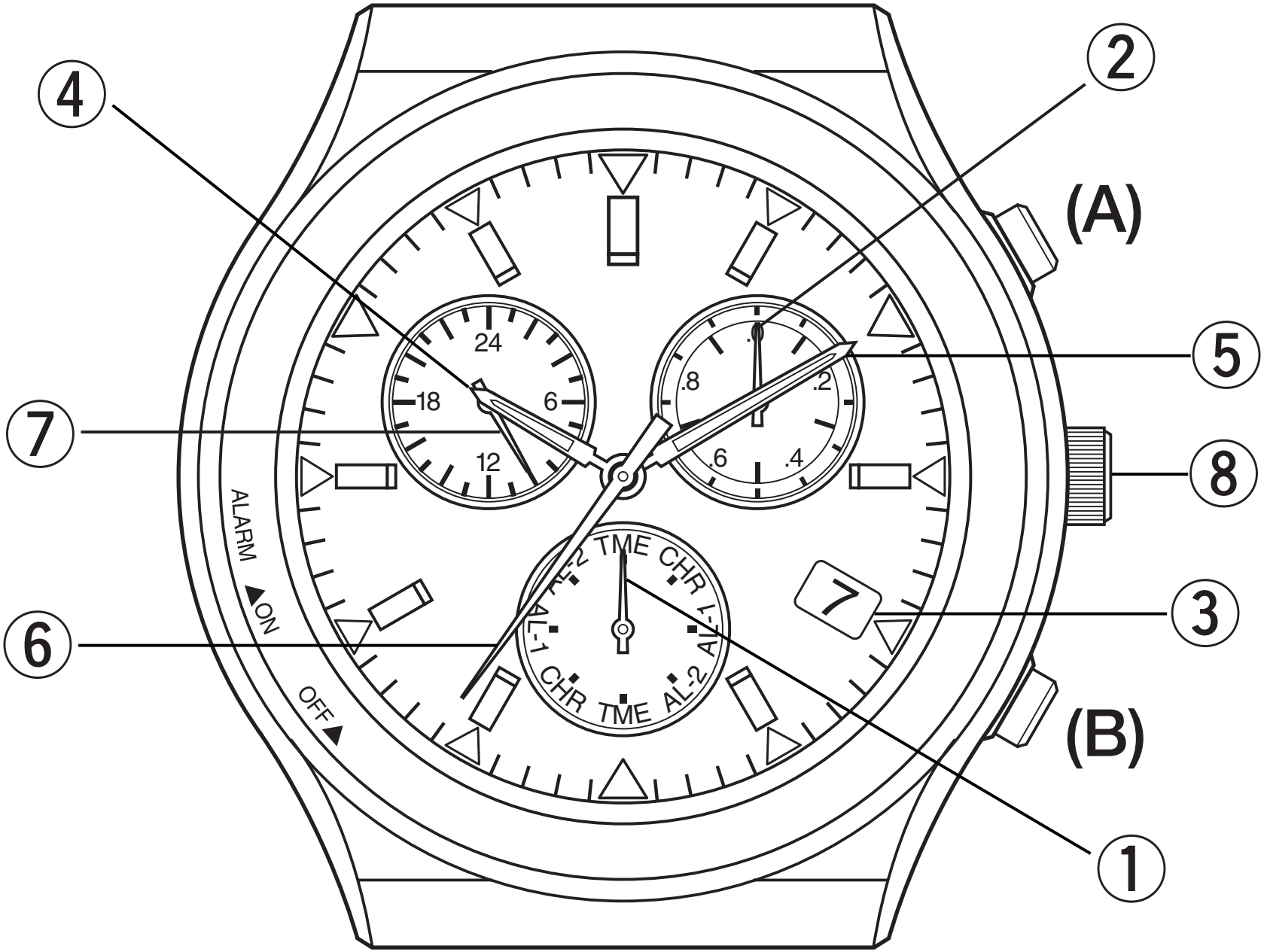

4
2
(A)
5
7
8
6
3
(B)
1
24
18
6
12
.8
.2
.6
.4
ALARM
ON
OFF
AL-2 TME CHR AL-1
AL-1 CHR TME AL-2

CONTENTS

1. Features 4
2. Before Using 4
3. Names of Components 6
4. Functions Unique to Solar-Powered Watches 10
- Insufficient Charge Warning Feature
- When the Watched has Stopped due to Insufficient Charging
- Overcharging Prevention Feature
- Power Save Feature

5. General Reference for Charging Times 16
6. Notes Regarding Handling of this Watch 17
- Charging Precautions

7. Replacing the Secondary Battery 18
8. Switching the Mode (Display Function) 19
9. Hand 0-Position Check and Correction 20
- 0-Position Check
- 0-Position Correction

10. Setting the Time and Date 24
- Setting the Time
- Setting the Date
- When Date is not in Center of Calendar Window

11. Using the Chronograph 30
12. Using Alarm 1 and Alarm 2 33
13. All-Reset 36
14. Precautions 40
15. Specifications 46

English

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 daily alarm function that be set based on a 24-hour clock, and a chronograph function that allows measurement of time in 1/20 second unit up to 59 minutes 59.95 seconds.

2. Before Using

This watch is a solar-powered watch. Please fully charge the watch before using by exposing it to light.

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 one year 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/calendar (TME mode), 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. Although varying according to the design, the power save feature is activated when light does not shine continuously for 30 minutes or more, and the second hand has reached the 12:00 position.

<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 everyday.

3. Names of Components

Name/Mode	Time/Calendar	Chronograph
① Mode hand	TME	CHR
② Function hand	Stop at 0-position	Chronograph minutes, 1/20th seconds
③ Date	Displays date	Displays date
④ Hour hand	Displays hours	Displays hours
⑤ Minute hand	Displays minutes	Display minutes
⑥ Second hand	Displays seconds	Chronograph seconds
⑦ 24 hour hand	24-hour time display in coordination with hour hand	24-hour time display in coordination with hour hand

Alarm 1	Alarm 2
AL-1	AL-2
Stops at 0-position	Stops at 0-position
Displays date	Displays date
Displays alarm hours	Displays alarm hours
Displays alarm minutes	Displays alarm minutes
Displays ON/OFF	Displays ON/OFF
24-hour alarm time display in coordination with hour hand	24-hour alarm time display in coordination with hour hand

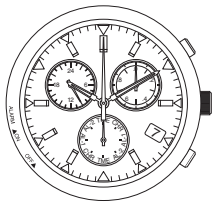
Name	Crown position	Time/Calendar	Chronograph
⑧ Crown	Normal position	Mode switching	Mode switching
	Position 1	Calendar correction	0-position check/correction (function hand)
	Position 2	Time correction	0-position check/correction (second hand, 24 hour hand, hour hand, minute hand)
Button (A)	Normal position	Not used	Start/stop, reset (pressing continuously for at least 2 seconds)
	Position 1	Not used	Function hand 0-position correction
	Position 2	Not used	Second hand 0-position correction
Button (B)	Normal position	Not used	Recalls 1/20 seconds when stopped
	Position 1	Not used	Not used
	Position 2	Not used	Not used

Alarm 1	Alarm 2
Mode switching	Mode switching
Alarm ON/OFF setting	Alarm ON/OFF setting
Alarm time correction (including ON/OFF switching)	Alarm time correction (including ON/OFF switching)
Alarm tone monitor (pressing continuously for at least 2 seconds)	Alarm tone monitor (pressing continuously for at least 2 seconds)
ON/OFF switching	ON/OFF switching
ON/OFF switching	ON/OFF switching
Not used	Not used
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.

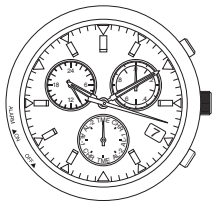
[Power Save Feature]



When power generation stops due to light not shining on the solar cell continuously for 30 minutes or more

When power generation once again begins when light shines on the solar cell

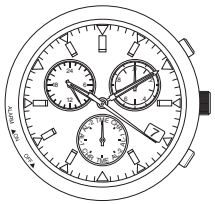
[Normal Time Display]



If insufficiently charged

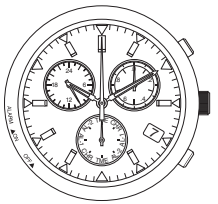
If charged

[Insufficient Charging Warning Feature]
The second hand switches from 1-second interval movement to 2-second interval movement



If watch is continued to be used without charging

[Stopped]
The second hand rapidly advances to the 12:00 position and stops

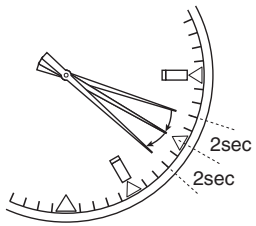


Time is incorrect as a result of the watch having stopped due to being insufficiently charged. Sufficiently charge the watch and set the time before use.

The watch hands begin to move when the watch is charged by exposing to light.
1. If the watch has stopped as a result of being insufficiently charged, it takes at least 30 minutes for the watch to switch to the normal time display even if exposed to light. Continue charging until the second hand begins to move.

<Insufficient Charging Warning Feature>

When the capacity of the secondary battery decreases as a result of light not shining on the solar cell, the second hand switches from 1-second interval movement to 2-second interval movement **(insufficient charge warning feature)**. Although the watch continues to keep time accurately at this time, the watch stops after about 4 days have elapsed after the second hand has switched to 2-second interval movement. When this happens, charge the watch by exposing it to light until the second hand returns to 1-second interval movement.



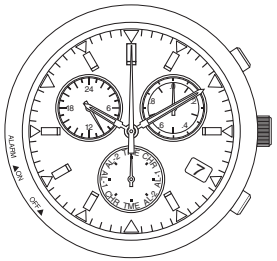
<2-second interval movement>

Notes:

- When the chronograph, alarm 1 or alarm 2 mode is displayed, the watch automatically switches to the time display and begins 2-second interval movement. However, the mode hand indicates the original mode. The watch returns to the original mode when it is sufficient charged and the insufficient charge warning feature is canceled.
- Chronograph measurement stop and the chronograph is reset even when measurement is in progress.
- The alarm will not sound even if it is set.
- Crown (mode switching) and button operations will not function.

<When the Watch has Stopped due to Insufficient Charging>

When the capacity of the secondary battery decreases as a result of the watch not being exposed to light after though the insufficient charge warning feature has been activated, the watch will stop due to being insufficiently charged. When this happens, sufficiently charge the watch by exposing to light so that it returns to the normal time display (1-second interval movement).



<Stopped due to insufficient charging>

Notes:

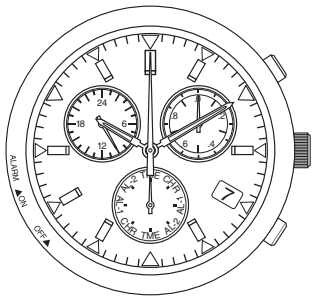
- Since the time is incorrect when the watch has stopped as a result of being insufficient charged, make sure to reset the time before using.
- If the watch has stopped as a result of being insufficient charged, it takes at least 30 minutes until the watch returns to the normal time display even if it is exposed to light. Continue charging until the second hand begins to move.

<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 power is no longer generated as a result of light not shining continuously for 30 minutes or more on the solar cell during the time/calendar (TME mode) with the crown in the normal position or Position 1, the second hand stops when it has reached the 12:00 position and the power save feature is activated to reduce current consumption. The 24 hour hand, hour hand and minute hand continue to keep the correct time even though the second hand has stopped. Furthermore, the calendar is corrected in coordination with the 24 hour hand and hour hand.



<Second hand stopped at 12:00>

Notes:

- 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 temporarily becomes fully charged as a result of exposure to intense light.
- When the power save feature has been activated when the crown is at Position 1 (calendar correction position), the date can be corrected by turning the crown.
- If the alarm is set (ON), the alarm will sound when the set alarm time is reached.
- The time until the power save feature is activated varies according to the model.

Canceling Power Save Feature

1. When power generation begins as a result of light shining on the solar cell, the power save feature is canceled and the second hand begins 1-second interval movement.
2. Power save is also canceled when the position of the crown has been changed (from the normal position to Position 1 or Position 2) or the mode has been switched (chronograph or alarm mode) by turning the crown while in the normal position.

5. General Reference for Charging Times

The time required for recharging 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.

* 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 until 1-second interval movement	Full recharging time
500	Inside an ordinary office	4 hours	100 hours	----
1,000	60-70 cm (24-28 in.) under fluorescent light (30 W)	2 hours	45 hours	----
3,000	20 cm (8 in.) under fluorescent light (30 W)	40 minutes	15 hours	150 hours
10,000	Outdoors, cloudy weather	12 minutes	4 hours 30 minutes	45 hours
100,000	Outdoors, summer, under direct sunlight	3 minutes	1 hour 30 minutes	9 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 this watch charged at all times.>

Please note that if your wear long sleeves, the watch can easily become insufficiently charged as a result of 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 is continuously kept charged continues to keep the correct time.

CAUTION: Charging Precautions

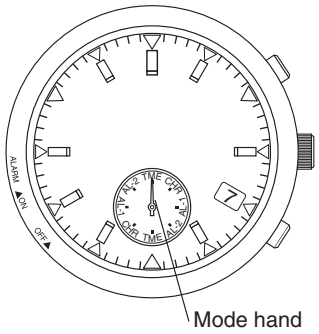
- Avoid recharging at high temperatures (over about 60°C / 140°F) since this may result in damage to the watch during recharging.
  Examples: Charging the watch in close proximity to an incandescent lamp, halogen lamp or other light source that can easily reach high temperatures, or charging the watch 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 50 cm (20 in.) away from the lamp so that it does not reach excessively high temperatures during charging.

7. Replacing the Secondary Battery

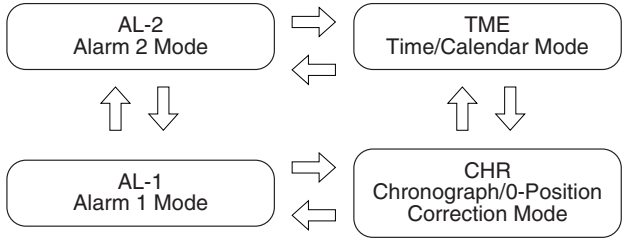
Unlike ordinary silver-based batteries, the secondary battery used in this watch does not have to be periodically replaced since it is able to be charged and discharged repeatedly.

8. Switching the Mode (Display Function)

This watch is equipped with four modes consisting of time/calendar, chronograph, alarm 1 and alarm 2. The mode changes when the crown is turned. The current mode can be confirmed with the mode hand.



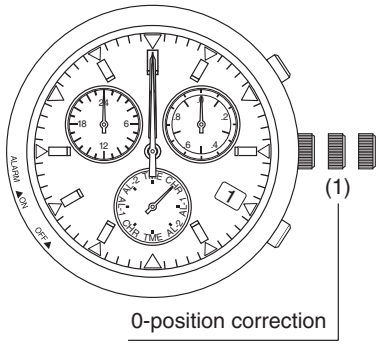
[Modes/Display Functions]



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 for enabling this 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 switch the watch to the 0-position correction mode. The 24 hour hand, hour hand, minute hand, second hand and function hand rapidly advance. Check that each hand indicates the 0-position.

0 Positions of Each Hand (Base Position)

24 hour hand : 24:00
Hour hand, minute hand : 00:00
Second hand : 00 seconds
Function hand : 0-position (12:00 position)

Perform the “0-Position Correction” procedure when the hands are not at the positions indicated above.

[0-Position Correction]

0-Position Correction of Function Hand:

1. Pull the crown out to Position 1 in the chronograph [CHR] mode to correct the function hand.
   (1) Press button (A) to align the function hand at the 0-position immediately after the date has changed (12:00 position).
   - Pressing button (A) advances the function hand by one second each time it is pressed. Continuously pressing button (A) causes the function hand to advance continuously.
   - The date changes by one day when the function hand completes four revolutions.

Note: • Turning the crown by one revolution to the left causes the function hand to advance continuously (make four revolutions) and the date to be corrected by one day.

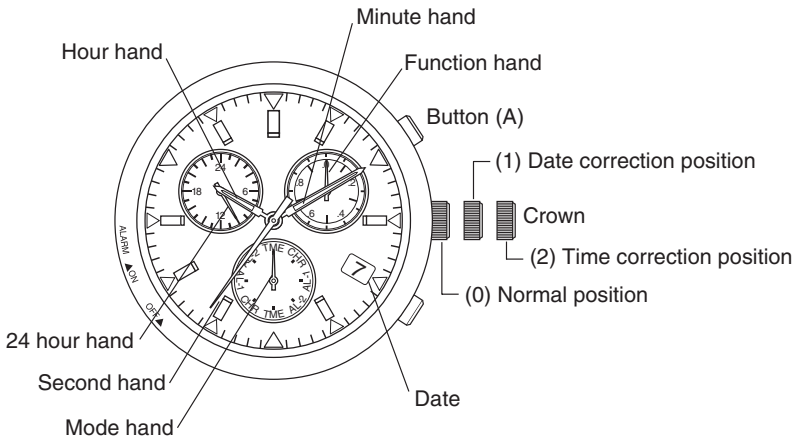
0-Position Correction of 24 Hour Hand, Hour Hand, Minute Hand and Second Hand:

1. Pull the crown out to Position 2 in the chronograph [CHR] mode to correct each of the hands.
   (1) Press button (A) to align the second hand at the 0 seconds position.
   • Pressing button (A) causes the second hand to advance by one second each time it is pressed. Pressing button (A) continuously causes the second hand to advance continuously.
   (2) Turn the crown to set the 24 hour hand at the 24:00 position, and the hour and minute hands at the 0-position (12:00 position).
   • Turning the crown by one revolution to the right causes the 24 hour hand, hour hand and minute hand to move forward (clockwise).
   • Turning the crown by one revolution to the left causes the 24 hour hand, hour hand and minute hand to move backward (counter-clockwise).
   • Turning the crown continuously by two or more revolutions causes each hand to advance continuously. When stopping the hands while they are advancing continuously, turn the crown by one revolution to the right or left. When the continuous advance of the hands is not stopped manually, they stop automatically after advancing by 12 hours.

Note: • After returning the crown to the normal position, correctly reset the time and date in the time/calendar (TME) mode. In addition, reset the other modes as well before using the watch.

10. Setting the Time and Date

[Setting the Time]



1. Turn the crown to align the mode hand at the time/calendar [TME] mode.
2. Pull the crown out to Position 2 (time correction position).
   • When the crown is pulled out to Position 2, the second hand rapidly advances to the 0 seconds position and stops.

   Notes:
   • When the second hand does not stop at the 0 seconds position, reset the 0-position (base position) in the "0-Position Correction Mode".
   • If the crown is pulled out to Position 2 when the date is changing, the date stops changing at that time, and after the second hand rapidly advances to the 0 seconds position, resumes changing until the date has finished changing.
3. Turn the crown to set the time.
   (1) Turning the crown by one revolution to the right causes the 24 hour hand, hour hand and minute hand to move forward (clockwise).
   (2) Turning the crown by one revolution to the left causes the 24 hour hand, hour hand and minute hand to move backward (counter-clockwise).
   • Turning the crown continuously by two or more revolutions causes each hand to advance continuously. When stopping the hands while they are advancing continuously, turn the crown by one revolution to the right or

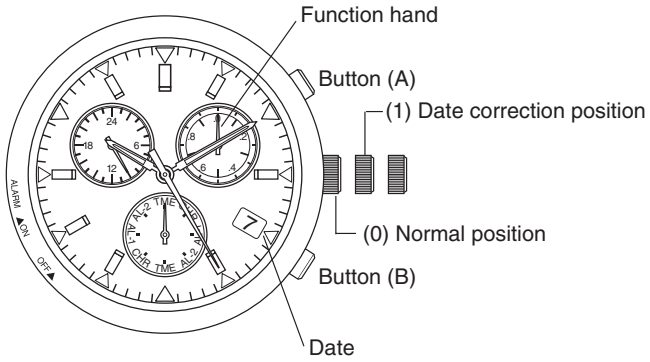
left. When the continuous advance of the hands is not stopped manually, they stop automatically after advancing by 12 hours.

- During the time correction, the date does not change even if the hands pass 12:00 AM. Refer to the section on “Setting the Date” for the procedure for correcting the date.

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

[Setting the Date]

The calendar function used by this watch is based on a 31-day month. The date must be changed manually from the last day of the current month to the first day of the next month by operating the crown in months having less than 31 days.



1. Turn the crown to switch the watch to the time/calendar [TME] mode.
2. Pull the crown out to Position 1 (date correction position).
3. Turn the crown to the left to set the date.
   (1) Turning the crown to the left causes the function hand to make four revolutions and the date to be corrected by one day.
   • The date is corrected one day at a time. The date will not change continuously even if the crown is turned continuously. When correcting the date by several days, first check that correction of the date by one day has been completed, and then turn the crown again to correct the date by an additional day until the date is corrected for the desired number of days.
4. Always make sure to return the crown to the normal position after correcting the date.

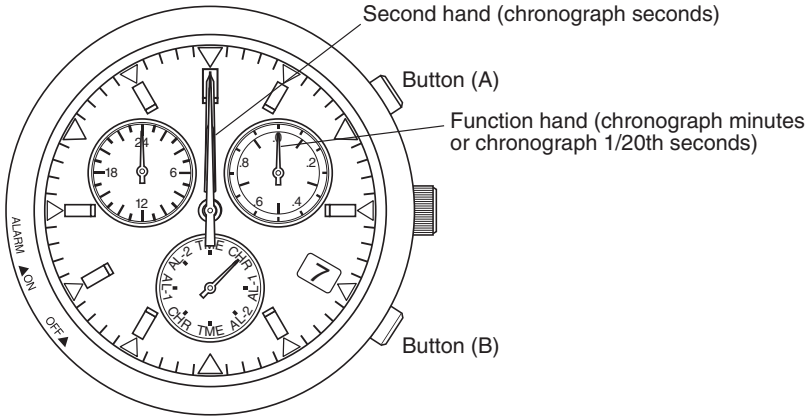
[When Date is not in Center of Calendar Window]

When the date display has shifted from the center of the calendar window as a result of the watch having been subjected to a strong impact or other reason, properly center the date in the calendar window in the chronograph mode.

1. Turn the crown to switch the watch to the chronograph [CHR] mode.
2. Pull the crown out to Position 1.
3. Pressing button (A) causes the function hand and date to move slightly.
   • Press button (A) several times until the number of the date is located in the center of the calendar window.
   • After setting the date, press button (A) several times until the function hand reaches the 0 position (12:00 position).
4. Always make sure to return the crown to the normal position after correcting.

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 unit, after which it resets to 0 seconds.



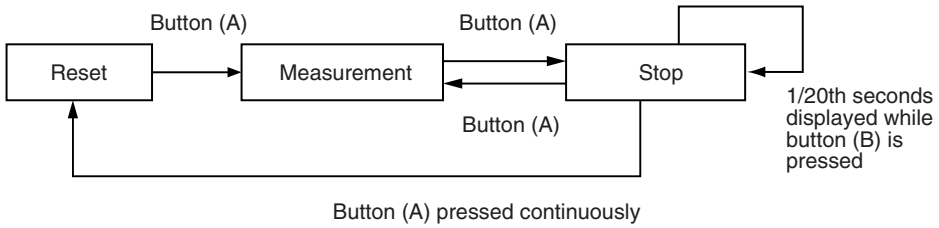
[Explanation of Hands During Chronograph Measurement]

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 (12:00 position), and the watch enters the chronograph mode.

- Second hand: Switches to chronograph seconds.
  - · 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.
  - · Moves in 1 minute increments to measure chronograph minutes.
  - · When button (B) is pressed when the chronograph is stopped, the function hand switches to 1/20th seconds during the time button (B) is pressed.
- 24 hour hand, hour hand, minute hand:
  - · Continue to display the current time when the watch has been switched from the time/calendar mode.
  - · Continue to display the alarm set time when the watch has been switched from the alarm mode.

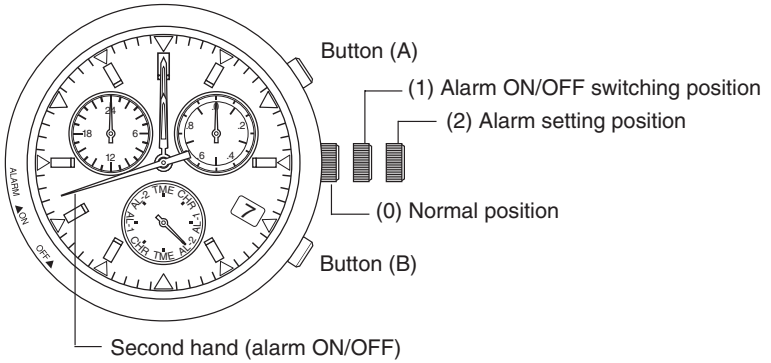
[Chronograph Measurement]

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 (12:00 position).



12. Using Alarm 1 and Alarm 2

With the exception of the alarm tone, the procedure for setting the alarm and other operating procedures are the same for Alarm 1 and Alarm 2. The alarm function uses a 24-hour clock. Once the alarm has been set, the alarm sounds for 15 seconds when the set time is reached once a day.



[Setting the Alarm Time]

1. Turn the crown to set the mode hand to the Alarm 1 [AL-1] or Alarm 2 [AL-2] mode.
   • Second hand: Moves rapidly to the ON position (42 seconds) or OFF position (38 seconds).
   • 24 hour hand, hour hand, minute hand: Move to the previously set alarm time.
   • Function hand: Stops at the 0-position.
2. Pull the crown out to Position 2 (alarm setting position).
   • The alarm setting is turned ON automatically.
3. Turn the crown to set the alarm time.
   (1) Turning the crown by one revolution to the right causes the 24 hour hand, hour hand and minute hand to move forward (clockwise).
   (2) Turning the crown by one revolution to the left causes the 24 hour hand, hour hand and minute hand to move backward (counter-clockwise).
   • Turning the crown continuously by two or more revolutions causes each hand to advance continuously. When stopping the hands while they are advancing continuously, turn the crown by one revolution to the right or left. When the continuous advance of the hands is not stopped manually, they stop automatically after advancing 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]

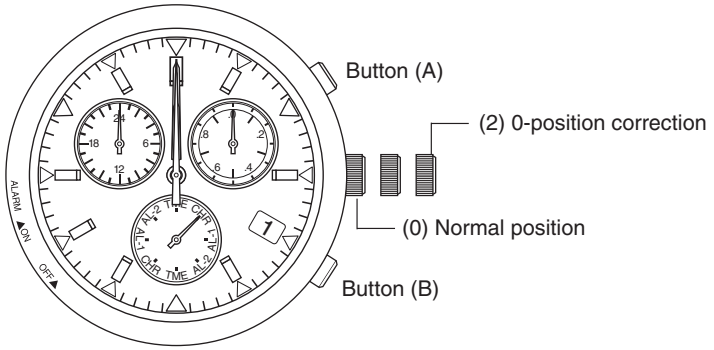
When button (A) is pressed with the crown in the normal position in the alarm mode, the alarm tone sounds for as long as button (A) is pressed.

[Stopping the Alarm Tone]

Press either button (A) or (B) to stop the alarm tone while it is sounding.

13. All-Reset

- This watch may not function properly as a result of being subjected to the effects of static electricity, strong impact and so forth. When this happens, perform the All-Reset and Base Position Alignment procedures described below. If the base position alignment procedure is not performed after performing the all-reset procedure, the base positions of each hand will be incorrect, and the time will not be displayed correctly even if it has been set. In addition, failure to perform the base position alignment procedure will also prevent the alarm and chronograph modes from operating properly.
- When performing the all-reset procedure, first make sure that the watch is sufficiently 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.



[All-Reset Procedure]

1. Turn the crown to set the mode hand to the chronograph [CHR] mode.
2. Pull the crown out to Position 2 (0-position correction mode).
   - With the exception of the mode hand, each hand moves to its respective 0-position stored in memory and stops. (A hand may stop at a position other than the 12:00 position if its 0-position has shifted.)
3. Press buttons (A) and (B) simultaneously and then release.

• Following a confirmation tone, each hand performs 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.

This completes the all-reset procedure. Next, perform the base position alignment procedure.

Note: • Do not press in the crown to the normal position until the base alignment procedure has finished following the all-reset procedure.

[Base Position Alignment Following All-Reset]

1. Press button (A) to align the second hand at the 0 seconds position (12:00 position).
   • Pressing button (A) advances the second hand by one second each time it is pressed. Continuously pressing button (A) causes the function hand to advance continuously.
2. Turn the crown to set the 24 hour hand at the 24:00 position, and the hour and minute hands at the 0-position (12:00 position).
   • Turning the crown by one revolution to the right causes the 24 hour hand, hour hand and minute hand to move forward (clockwise).
   • Turning the crown by one revolution to the left causes the 24 hour hand, hour hand and minute hand to move backward (counter-clockwise).

   • Turning the crown continuously by two or more revolutions causes each hand to advance continuously. When stopping the hands while they are advancing continuously, turn the crown by one revolution to the right or left. When the continuous advance of the hands is not stopped manually, they stop automatically after advancing by 12 hours.
3. Push in the crown to Position 1.
4. Press button (A) to set the function hand at the 0-position immediately after the date has changed (12:00 position).
   • Pressing button (A) advances the function hand by one second each time it is pressed. Continuously pressing button (A) causes the function hand to advance continuously.
   • The date changes by one day when the function hand completes four revolutions.

Note: • Turning the crown by one revolution to the left causes the function hand to advance continuously (make four revolutions) and the date to be corrected by one day.

5. After returning the crown to the normal position, correctly reset the time and date in the time/calendar (TME) mode. In addition, reset the other modes as well before using the watch.

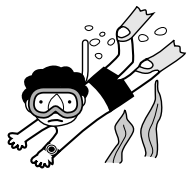
14. Precautions

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

- 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.

- 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 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 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.

15. Specifications

- **Model:** E86*
- **Type:** Analog solar-powered watch
- **Accuracy:** Within ±15 seconds per month on average (when worn at normal temperatures of +5°C to +35°C/41°F to 95°F)
- **Operating temperature range:** -10°C to +60°C
- **Display functions**
  Time: 24 hours, hours, minutes, seconds
  Calendar: Date display by a date wheel
- **Additional functions:**
  Power save feature
  Insufficient charging warning feature
  Overcharging prevention feature
  Chronograph (60 minute measurement, 1/20th second units)
  Alarm 1 (24 hour clock, alarm monitor, alarm ON/OFF)
  Alarm 2 (24 hour clock, alarm monitor, alarm ON/OFF)

- **Continuous running times:**
  · Fully charged to stopped without charging:
  Roughly 1 year (when stored in a dark location where the power save feature operates continuously)
  Roughly 6 months (when the power save feature is activated for about 7.5 hours per day)
  * Continuous running times differ depending on the conditions under which the alarm and chronograph functions are used.
  2-second interval movement to stopped: Roughly 4 days
- **Battery:** Secondary battery

* Specifications are subject to change without notice.