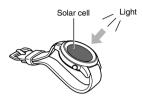


Before using the watch...

Expose the watch to light.

Your watch runs on electrical power generated from light, which is stored by a chargeable battery. Long-term storage of the watch can cause power to run low, so be sure to expose the watch to light for some time before using it for the first time. See "Solar Charging" for more information



Power Saving

Power Saving causes the watch to enter a sleep state automatically and stop movement of the analog hands in order to save power whenever the watch is left in the dark.

The watch will exit the sleep state if you expose it to light or perform any button operation

 Note that the watch also may enter the sleep state and stop if the solar panel is blocked from light by your sleeve.

How the sleep state works

Sleep Level 1

Sleep Level 1 is triggered whenever the watch is left in the dark for about one hour any time between the hours of 10 p.m. and 6 a.m.

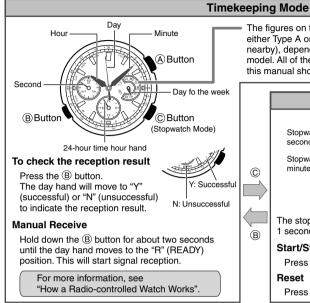
- Second hand stopped
- The hour, minute, day, and day of the week hands continue to operate normally.
- Auto Receive is disabled.

Sleep Level 2

Sleep Level 2 is triggered whenever the watch is left in the dark while in Sleep Level 1 for six or seven days.

- The hour, minute, day, and day of the week hands stop at their current positions.
- · Auto Receive disabled
- Digital timekeeping functions continue to operate normally.

Modes and Indicators



The figures on the right will be either Type A or Type B (shown nearby), depending on your watch model. All of the illustrations in this manual show Type A.





Stopwatch Mode (Start/Stop) Stopwatch seconds Stopwatch minutes The stopwatch measures elapsed time in units of 1 second up to 59 minutes, 59 seconds (60 minutes).

Start/Stop

Press the (A) button to start and stop timing.

Press the © button to reset the stopwatch to all zeros.

Solar Charging

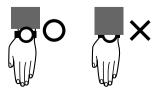
Your watch runs on electrical power generated from light, which is stored by a chargeable battery.

To ensure stable operation, make sure that the watch is exposed to light as much as possible.

• Whenever you are not wearing the watch on your wrist, position it so the face (solar cell) is pointed in the direction of a source of bright light. Leave the watch under fluorescent lighting, near a

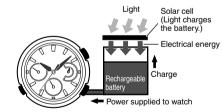


. When wearing the watch, try to keep your sleeve from blocking its face, where the solar cell is located. Charging efficiency is reduced significantly even if the face of the watch is covered only partially by your sleeve.

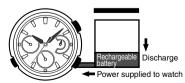


How the solar cell and battery work

While the watch is exposed to light...



While the watch is not exposed to light...



Your watch continues to operate even when it is not exposed to light. Leaving the watch in the dark can run down its battery and cause functions to become disabled.

Charging Precautions

Avoid charging the watch in the following locations, and anywhere else where the watch may become very hot.

- On the dashboard of an automobile parked in the sun
- Very close to an incandescent light source or other sources of heat
- . In a location exposed to direct sunlight for long periods



Depending on the light source you are using, the case of the watch may become quite hot when charging. Take care to guard against burn injury after

Dead Battery

Hands stop at 12 o'clock.

Dead Battery

The following conditions apply when the battery is dead.

- · Timekeeping stops
- · Auto receive and manual receive are disabled
- · Second hand stops immediately at 12 o'clock.
- . Hour and minute hands stop at 12 o'clock at midnight.
- · Even if the battery level drops to the point that timekeeping stops, you still will be able to recharge the battery and use the watch
- · After you recharge the battery when it drops to a level where timekeeping stops, the hands will move automatically to the current time setting.
- . Try to keep the watch exposed to light as much as possible during

Charging Guide

Required Charging Time for One Day of Operation

· The following values assume six minutes of calibration signal reception per day.

Exposure Level (Brightness)	Charging Time
Outdoor Sunlight (50,000 lux)	9 minutes
Sunlight through a Window (10,000 lux)	32 minutes
Daylight through a Window on an Overcast Day (5,000 lux)	51 minutes
Indoor Fluorescent Lighting (500 lux)	8 hours

Making sure the watch is exposed to light ensures stable operation.

Approximate Charge Times Required to Advance to a Higher Level

Exposure Level	Charging Time		
(Brightness)	Until Hand Movement Restarts	Until Full Charge	
Outdoor Sunlight (50,000 lux)	3 hours	19 hours	
Sunlight through a Window (10,000 lux)	9 hours	68 hours	
Daylight through a Window on an Overcast Day (5,000 lux)	14 hours	110 hours	
Indoor Fluorescent Lighting (500 lux)	146 hours		

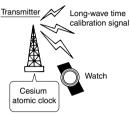
· Note that the above charging times are for reference only. Actual charging time depends on a variety of environmental factors.

CASIO.

How a Radio-controlled Watch Works

What is a radio-controlled watch?

A radio-controlled watch is designed to receive a time calibration signal that contains standard time data and adjust its current time setting accordingly.



After the watch receives the Standard Time signal, it performs internal calculations to determine the current time. Because of this, there may be an error of up to one second in the displayed time.

Calibration Signal

- The Japanese calibration signal (Call Sign: JJY) is maintained by the National Institute of Information and Communications
 Technology (NICT). It is transmitted 24 hours a day from the Mt.
 Otakadoya transmitter (40 kHz) located in Tamura-gun, Fukushima Prefecture, and from the Mt. Hagane transmitter (60 kHz) located on the border between Saqa Prefecture and Fukuoka Prefecture.
- The U.S. calibration signal (Call Sign: WWVB) is transmitted by the National Institute of Standards and technology from Fort Collins, Colorado.
- Time calibration signal frequencies and transmitter locations are subject to change. The time data of the Japanese calibration signal (Call Sign: JJY) is maintained by the Japan Standard Time Group of the National Institute of Information and Communications Technology (NICT). Note that transmission of the calibration signal may be interrupted occasionally due to maintenance, lightning, etc. For more information, visit the website of the Japan Standard Time Group of the National Institute of Information and Communications Technology (NICT) at the following URL.

http://jjy.nict.go.jp

· Note that the above URL is subject to change.

Receiving a Calibration Signal

There are two methods you can use to receive the time calibration signal.

Auto receive

Up to six times per day

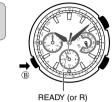
(Midnight, 1:00, 2:00, 3:00, 4:00, and 5:00 a.m.)
As soon as one auto receive is complete, all subsequent auto receives for that day are cancelled.

Manual Receive

You initiate signal reception by pressing a button.

In the Timekeeping Mode, hold down the (B) button for about two seconds.

 The day hand will indicate the result of the reception, and then move to "READY" ("R" for some models).



■ To cancel a manual receive operation

Press any button.

At the start of the receive operation

- The day hand will move to "READY" ("R" for some models).
- . The hour and minute hands will remain at their normal positions.
- The second hand will stop at "60".

While reception is in progress

- The day hand will move to "WORK" ("W" for some models).
- The hour and minute hands will remain at their normal positions.
- Do not move the watch while signal reception is in progress (second hand at "WORK").



When reception is complete...

- When the receive operation is successful, the day hand will move to "Y", and then after about five seconds the watch will adjust its time and normal timekeeping will resume.
- When the receive operation is unsuccessful, the day hand will move to "N", and then after about five seconds the normal timekeeping will resume.

■ To check the result of the last receive operation

In the Timekeeping Mode, press the ® button. This will enter the last signal receive mode. The day hand will move to "Y" (if the last reception was successful) or "N" (if the last reception was unsuccessful).

- \bullet Press the $\ensuremath{\mathbb{B}}$ button once to return to normal timekeeping.
- The watch also will return to the Timekeeping Mode automatically if you do not perform any operation for about five seconds.

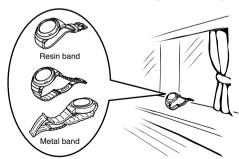


The last receive status changes each time a new time calibration signal reception operation is performed.

■ To position the watch for optimum reception

Remove the watch from your wrist and place it somewhere so its top (12 o'clock side, where the antenna is located) is pointing approximately in the direction of the signal transmitter. Keep the watch away from metal objects.

- Orienting the watch so it is sideways to the transmitter makes it more difficult for it to receive the signal.
- Do not move the watch while it is receiving the calibration signal.



Time Required for Reception

Signal reception normally takes anywhere from about two to seven minutes.

Under certain signal conditions however, the receive operation can take as long at 14 minutes.

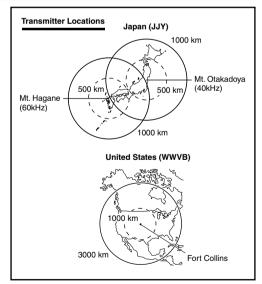
Reception Ranges

This watch is designed to receive the standard time calibration signal of Japan (JJY) or of the United States (WWVB). The signal that is received depends on the current Home City setting.

 For information about selecting a Home City and city codes, see "To configure Home City settings".

Home City (Supports signal reception)	Receivable Transmitter
TYO, HKG	Japan (JJY)
LAX, DEN, CHI, NYC	United States time calibration signal (WWVB)

 Signal reception also is possible in Hong Kong (HKG) when reception conditions are good.



Certain conditions can make reception impossible even when the watch is within one of the reception ranges shown above. Signals become weaker outside of the smaller circles indicated by dashed lines in the nearby maps, so the reception environment has a greater effect on signal reception.

 The following also can affect signal reception: geographic contours, structures, weather, climate, time of day (afternoon, evening),

Location

Reception is difficult and may even be impossible in the locations described below. Avoid such locations when performing signal

 You should think of your watch as operating like a radio or TV when it is receiving the calibration signal.



Among or near buildings



Inside an automobile, train. plane, or other vehicle





Next to a household appliance or office equipment (TV, speaker, fax, computer, cell



At a construction site, airport, Near mountains or other location where there is radio interference



If you are experiencing problems with reception, move away from the types of locations described above to a location with better reception, and try again.

Calibration Signal Reception Precautions

- Auto Receive is not performed while the watch is in the Stopwatch
- Pressing any button while auto receive is in progress will cause the watch to exit the receive operation.
- Make sure you are within the range of a calibration signal transmitter before performing the receive operation. Remember that geographic contours, nearby buildings, the season, or the time of day can make reception impossible even when you are within range of the transmitter.
- Proper reception may be impossible if there is something blocking the signal. If reception is unsuccessful, try again.
- This watch is designed to adjust its current time setting in accordance with the calibration signal transmitted in Japan and the United States only. Note that you will need to make your own adjustments when using this watch outside of Japan or the United States, or in any area that is outside the range of one of the receivable time calibration signal transmitters.
- When the watch is unable to adjust its time using the calibration signal for some reason, timekeeping accuracy is within ±20
- Strong electrostatic charge can cause timekeeping error.
- The watch's calendar shows dates up to the year 2099. Attempting a receive operation after that causes an error.

Troubleshooting

1. The watch cannot receive the time calibration signal.

- . Is there something in the immediate area that may be interfering with recention?
- Even if you are within the reception range of a transmitter. electrical noise or objects between you and the transmitter can interfere with reception. Avoid such areas during signal reception. See "Location" for more information.
- Are you within the reception range of a transmitter? See "Reception Ranges" for information about areas where the watch can receive the signal.
- Do you have the correct Home City code selected? For details about setting the correct Home City, see "To configure Home City settings".
- Is the signal being transmitted? Transmission of time calibration signals may be interrupted occasionally due to maintenance, lightning, etc.

- 2. Time calibration signal reception is successful, but the hourly time signal and current time are slightly off.
- After the watch receives the time calibration signal, it performs an internal decoding process before updating its time setting. Because of this, the time setting may be off slightly (within one second).

3. Time calibration signal reception is successful, but the current time setting is wrong.

- Is your Home City setting correct? See "To configure Home City settings" for more information.
- If you cannot receive the calibration signal or if the time setting is incorrect after signal reception, check the setup of the watch.
- The following are the watch's factory default settings, which are configured automatically whenever you have the battery of the watch replaced.

Home City	TYO (Tokyo)
Summer time	AT (according to signal data)

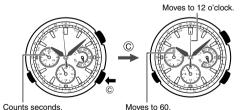
Stopwatch

The stopwatch measures elapsed time in units of 1 second up to 59 minutes, 59 seconds (60 minutes). When the maximum limit is reached, the elapsed time returns to zero automatically and timing continues from there.

• To enter the Stopwatch Mode, press the © button while in the Timekeeping Mode.

Timekeeping Mode

Stopwatch Mode

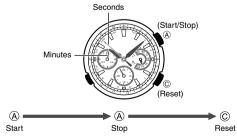


Press the (B) button to return to the Timekeeping Mode.

Note that leaving the stopwatch running will run down the

■ To start or stop an elapsed time

Perform the operations below in the Stopwatch Mode.



• Pressing © while elapsed time measurement is in progress will reset to all zeros.

Cumulative Elapsed Time Measurement

Pressing the (A) button to restart the stopwatch without resetting it to all zeros will resume elapsed time measurement from where it was last stopped.

CASIO

Configuring Home City Settings

Left dial

You can use the following procedure to set the current time and date of the Home City that you have selected in the Timekeeping Mode.

 Always use the Timekeeping Mode to set and adjust the current time and date settings.

You also can use the procedures in this section to adjust the time and date when the watch is unable to receive a time calibration signal for some reason.

■ To configure Home City settings

- 1. In the Timekeeping Mode, keep (B) depressed (for about five seconds) as the day, right dial, and left dial hands perform the sequence described below.
 - . The day hand moves to the last signal reception result to "R", and then to the currently selected city code. . The right dial hand moves to
- "T.Z" (time zone).
- "AT" "ON" or "OFF" . This is the setting mode.
- Type B right dial hand . The left dial hand moves to

city code positions on the

Right dial

hand

the day of

. See the table below for details about city code positions.

To change the Home City

setting, press (C) to move

the day hand between the

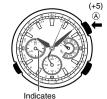
- · For some models, city codes are not marked on the dial.
- · For some models, city codes are marked on the back cover of the watch.

Day hand
(indicates city code)
(+5)

	Day Hand Position	City Name	City Code	UTC Offset
	4 seconds	Tokyo	TYO	+9 -
	10 seconds	Hong Kong	HKG	+8 -
10°	56 seconds	Los Angeles	LAX	-8
	52 seconds	Denver	DEN	-7
HILL O I	48 seconds	Chicago	CHI	-6
	42 seconds	New York	NYC	-5

- The contents of the above table are current as of March 2008.
- Time offsets for this watch are in accordance with Universal Time Coordinated (UTC).

To change the summer time setting, press the (A) button to move the left dial hand between the three available settings described below.



summer time setting

Press (B) to advance to day and day of the week settina.

 The day hand and right dial hand will move to their current settings.



Right dial hand

AT (AUTO)

This setting enables the auto summer time setting, which turns summer time on or off in accordance with the received time calibration signal.

This setting turns on summer time, which advances the time setting by one hour.

This setting turns off summer time, and displays the current time normally.

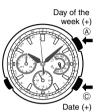
Summer time, or Daylight Saving Time (DST) as is it is called in some countries, calls for setting clocks ahead one hour during the summer season.

Note that the use of summer time depends on the country and even the local area.

 If you only want to change the Home City and summer time settings, go directly to step 9 of this procedure.

Press (C) (+) to change the day setting.

Press (A) (+) to change the day of the week setting.

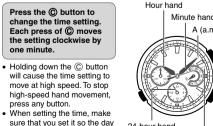


- current time setting.
 - . The right dial hand will move to "SET" and the day hand will move to "A" (a.m.) or "P" (p.m.)



Right dial hand



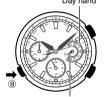


- When all of the settings are the way you want, press (B). This will exit the setting mode and the left dial hand will resume normal operation.
 - . If you change the Home City and/or summer time setting, normal left dial hand operation will resume after the hour and minute hands move to their new positions based on your
 - . If you change the current time setting, normal left dial hand operation will resume from 00.
 - If you did not change the current time setting, normal left dial hand operation will resume from the location it was at when you started the setting procedure above.
 - The watch will exit the setting screen automatically if you do not perform any button operation for about two or three

When you are using the watch in an area that supports time calibration signal reception, it will adjust the date automatically for month lengths and leap years. If you use it in an area that does not support signal reception, you will have to make adjustments for month lengths and leap year manually.

hand (a.m./p.m.) and 24-hour

hand are in the correct positions.



Minute hand A (a.m.) (+5)

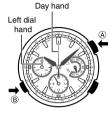
P (p.m.)

24-hour hand

Home Position Adjustment

If the time setting of your watch is not correct even though time calibration signal reception is being performed normally, use the procedure in this section to check the home positions of the hands and make adjustments as required. Note that you do not need to perform the following operation if your watch is showing the correct time.

In the Timekeeping Mode, hold down the (A) button and then the (B) button, keeping both buttons depressed for about five seconds until the day hand and left dial hand move to their home positions.



Home Positions

Day hand: 31 Left dial hand: 60

• If the hands are at their proper home positions, advance to step 3.

If the left dial hand position is off, use (C) to move it clockwise to correct it.

- Holding down the © button will cause the left dial hand to move at high speed.
- High-speed movement of the left dial hand will continue until it completes a full revolution, or until you press any button to stop



Press (B) to advance to home position adjustment for the hour, minute, and lower dial hands This should cause all three hands to move to their home positions.

Home Positions

Hour hand: 12 o'clock Minute hand: 12 o'clock Lower dial hand: 24 o'clock

• If the hour, minute, and lower dial hands are all at their proper home positions, advance to step 5.



Lower dial hand

 Holding down the © button will cause the hands to move at high speed.

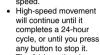
them.

If the hour and minute

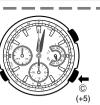
hand positions are off,

use (c) to move them

clockwise to correct



 The 24-hour time hour setting of the lower dial hand is synchronized with the hour and minute hands, so separate adjustment is not required.



Press the (B) button to advance to home position adjustment of the day and right dial hands.

> . This should cause the day and right dial hands to move to their home positions.

Home Positions Day hand: 31

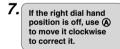
Right dial hand: ▼ (between SU and MO)



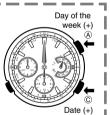
Type B right dial hand the day of

• If the day of the day and right dial hands are at their proper home positions, advance to step 8.

If the day hand position is off, use (C) to move it clockwise to correct it.



- . Holding down the © or (A) button will cause the hand to move at high speed.
- High-speed movement of the will continue until the hand completes a full revolution, or until you press any button to stop



To exit home position adjustment and return to normal timekeeping, press

> The watch also will exit home position adjustment automatically if you do not perform any operation for about two or three minutes



After completing the home position adjustment procedure, put the watch in a location where it is able to receive the time calibration signal easily and perform a manual receive

• For information about the manual receive operation, see "Receiving a Calibration Signal".

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