

Operation Guide 5041

CASIO®

Getting Acquainted

Congratulations upon your selection of this CASIO watch. To get the most out of your purchase, be sure to read this manual carefully.

Starting second hand movement and digital display

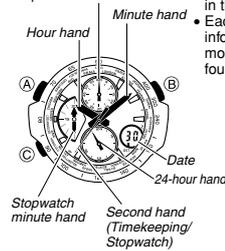


To conserve battery power, the watch is shipped from the factory with its functions disabled. Pressing any one of the watch's three buttons will activate its functions, which will cause the second hand to start moving and the digital display to activate.

Note that CASIO COMPUTER CO., LTD. assumes no responsibility for any damage or loss suffered by you or any third party arising through the use of this product or its malfunction.

About This Manual

Stopwatch second hand

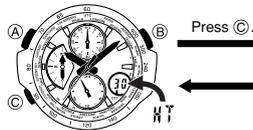


- Button operations are indicated using the letters shown in the illustration.
- Each section of this manual provides you with the information you need to perform operations in each mode. Further details and technical information can be found in the "Reference" section.

General Guide

- Press (C) to change from mode to mode.
- About one or two seconds after you enter the World Time Mode, Alarm Mode, or Hand Setting Mode, the hands will move to the position that indicates the current setting of the mode.
- In the Timekeeping Mode (except when a setting screen is on the display), press (B) to illuminate the face of the watch for about one second.

Timekeeping Mode



Press (C).

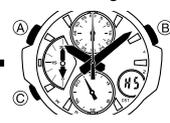
Stopwatch Mode



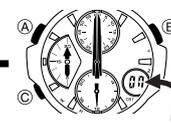
World Time Mode



Hand Setting Mode



Alarm Mode



Radio-controlled Atomic Timekeeping

This watch receives a time calibration signal and updates its time setting accordingly.

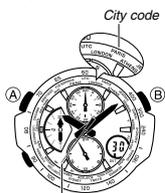
- Supported time calibration signals: Germany (Mainflingen), England (Anthorn).
- See the information under "Signal Reception Troubleshooting" if you experience problems with time calibration signal reception.

Current Time Setting

This watch adjusts its time setting automatically in accordance with a time calibration signal. You also can perform a manual procedure to set the time and date, when necessary.

- **The first thing you should do after purchasing this watch is to specify your Home City, which is the city where you normally will use the watch. For more information, see "To specify your Home City."**
- When using the watch outside the areas covered by the time signal transmitters, you will have to adjust the current time setting manually as required. See "Timekeeping" for more information about manual time settings.

To specify your Home City



Second hand

- In the Timekeeping Mode, hold down (A) for about five seconds until the watch beeps twice.
 - The second hand will move to the city code of the currently selected Home City. This is the city code setting mode.
- Use (B) to move the second hand to the city code you want to use as your Home City.
 - Each press of (B) causes the second hand to advance clockwise to the next city code.
 - Time calibration signal reception is supported when any one of the city codes shown in the table below is selected as your Home City.

- For full information on city codes, see the "City Code Table".

German/U.K. Signal	
City Code	City Name
LON	London
PAR	Paris
ATH	Athens

- In addition to the above, you also can select city codes that are outside the ranges of the time calibration signal transmitters supported by this watch.
- 3. After the Home City setting is the way you want, press (A) to return to the Timekeeping Mode.
- Normally, your watch should show the correct time as soon as you specify your Home City code. If it does not, it should adjust automatically after the next auto receive operation. You also can perform manual receive or you can set the time manually.
- Even if the time calibration signal is received correctly, there are some times when the analog hands may not indicate the correct time. If this happens, use the procedures under "Adjusting the Home Positions" to check the home positions of the hands, and make adjustments as required.

Time Calibration Signal Reception

There are two different methods you can use to receive the time calibration signal: auto receive and manual receive.

• Auto Receive

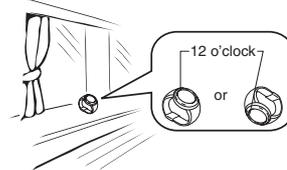
With auto receive, the watch receives the time calibration signal automatically up to six times a day. When any auto receive is successful, the remaining auto receive operations are not performed. For more information, see "About Auto Receive".

• Manual Receive

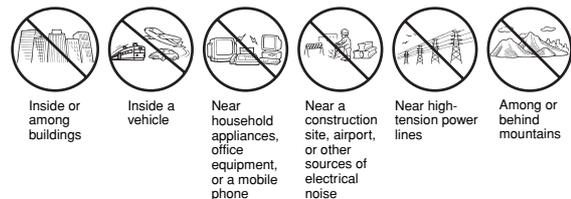
Manual receive lets you start a time calibration receive operation with the press of a button. For more information, see "To perform manual receive".

Important!

- When getting ready to receive the time calibration signal, position the watch as shown in the nearby illustration, with its 12 o'clock side facing towards a window. This watch is designed to receive a time calibration signal late at night. Because of this, you should place the watch near a window as shown in the illustration when you take it off at night. Make sure there are no metal objects nearby.

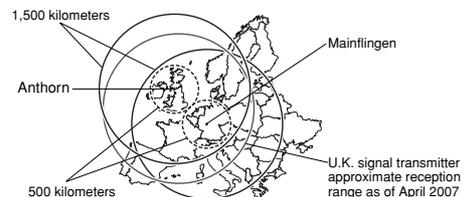


- Make sure the watch is facing the right way.
- Proper signal reception can be difficult or even impossible under the conditions listed below.



- Signal reception normally is better at night than during the day.
- Time calibration signal reception takes from two to seven minutes, but in some cases it can take as long as 14 minutes. Take care that you do not perform any button operations or move the watch during this time.

Approximate Reception Ranges



- In April 2007, the U.K. signal transmitter was moved from Rugby to Anthorn, which resulted in a slight shift in the approximate reception range of the signal. The shift is so slight that there is virtually no change in the ability to receive the signal.
- Even when the watch is within the reception range of a transmitter, signal reception may be impossible at times due to the effects of geographic contours, structures, weather, the season of the year, the time of day, radio interference, etc. Note that the signal becomes weaker at distances of approximately 500 kilometers from the transmitter, which means that the influence of the conditions listed above becomes even greater.

About Auto Receive

The watch receives the time calibration signal automatically up to six times a day. When any auto receive is successful, the remaining auto receive operations are not performed. The reception schedule (calibration times) depends on your currently selected Home City, and whether standard time or Daylight Saving Time is selected for your Home City.

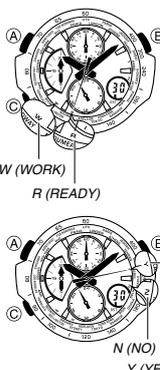
Your Home City		Auto Receive Start Times					
		1	2	3	4	5	6
LON	Standard Time	1:00 am	2:00 am	3:00 am	4:00 am	5:00 am	Midnight*
	Daylight Saving Time	2:00 am	3:00 am	4:00 am	5:00 am	Midnight*	1:00 am*
PAR	Standard Time	2:00 am	3:00 am	4:00 am	5:00 am	Midnight*	1:00 am*
	Daylight Saving Time	3:00 am	4:00 am	5:00 am	Midnight*	1:00 am*	2:00 am*
ATH	Standard Time	3:00 am	4:00 am	5:00 am	Midnight*	1:00 am*	2:00 am*
	Daylight Saving Time	4:00 am	5:00 am	Midnight*	1:00 am*	2:00 am*	3:00 am*

* Next day

Note

- When a calibration time is reached, the watch will receive the calibration signal only if it is in either the Timekeeping Mode or World Time Mode. Reception is not performed if a calibration time is reached while you are configuring settings.
- Auto receipt of the calibration signal is designed to be performed early in the morning, while you sleep (provided that the Timekeeping Mode time is set correctly). Before going to bed for the night, remove the watch from your wrist, and put it in a location where it can receive the signal easily.
- The watch receives the calibration signal for two to 14 minutes every day when the time in the Timekeeping Mode reaches each of the calibration times. Do not perform any button operation within 14 minutes before or after the calibration times. Doing so can interfere with correct calibration.
- Remember that reception of the calibration signal depends on the current time in the Timekeeping Mode.

To perform manual receive

- Place the watch on a stable surface so its 12 o'clock side is facing towards a window.
 - In the Timekeeping Mode, hold down (A) for about two seconds until the watch beeps.
 - The second hand will move to **R (READY)** to indicate that the watch is setting up for time calibration reception.
 - The second hand will move to **W (WORK)** and stay there while actual reception is in progress.
 - If signal reception is unstable during reception, the second hand may move between **W (WORK)** and **R (READY)**.
 - The hour and minute hands continue to keep time normally.
 - Time calibration signal reception takes from two to seven minutes, but in some cases it can take as long as 14 minutes. Take care that you do not perform any button operations or move the watch during this time.
 - If reception is successful, the second hand will move to **Y (YES)**. Five seconds later, the hands will move to the correct time.
- 

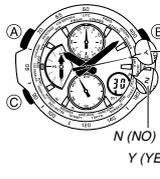
Note

- To interrupt a receive operation and return to the Timekeeping Mode, press any button.
- If reception is not successful, the second hand will move to **N (NO)**. Five seconds later, the second hand will resume normal operation, without any adjustment of the hand setting.
- If the second hand is pointing to **Y (YES)** or **N (NO)**, you can return to the Timekeeping Mode by pressing (A).

Viewing the Latest Signal Reception Results

You can use the procedure below to check whether or not the last signal receive operation was successful.

To check the latest signal reception results

- In the Timekeeping Mode, press (A).
 - If the watch was able to perform a successful signal receive operation since midnight, the second hand will move to **Y (YES)**. If the watch has been unable to receive any signal successfully, the second hand will move to **N (NO)**.
 - The watch will return to the Timekeeping Mode after five seconds or when you press (A).
 - The current receive result is cleared when the first auto receive operation is performed on the following day. This means **Y (YES)** indicates successful signal reception since the start of the current day.
- If you adjust the time or date setting manually, the second hand will move to **N (NO)**.
- 

Signal Reception Troubleshooting

Check the following points whenever you experience problems with signal reception.

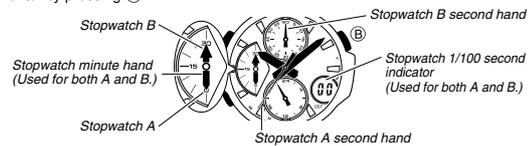
Problem	Probable Cause	What you should do
The second hand is pointing at N (NO) .	<ul style="list-style-type: none"> You changed the time setting manually. You performed some button operation during the auto receive operation. The watch is not in the Timekeeping Mode. Signal reception results are reset at midnight each day. Radio interference is often present during the day time, which can interfere with calibration signal reception. 	<ul style="list-style-type: none"> Perform manual signal receive at night or wait until the next auto signal receive operation is performed. Enter the Timekeeping Mode and try again. Check to make sure the watch is in a location where it can receive the signal.
The time setting is incorrect following signal reception.	<ul style="list-style-type: none"> The Home City setting is not correct for the area where you are using the watch. The home position of the hands is off. 	<ul style="list-style-type: none"> Select the correct Home City. Enter the home position adjustment mode and adjust the home position.

- For further information, see "Important!" under "Time Calibration Signal Reception" and "Radio-controlled Atomic Timekeeping Precautions".

Twin Stopwatch

Your watch has two stopwatches built in, each of which can measure elapsed time and cumulative elapsed time in 1/100-second units up to 29 minutes, 59.99 seconds (30 minutes total).

- When the maximum limit is reached by either stopwatch, it returns to zero automatically and timing continues from there.
- A stopwatch elapsed time measurement operation continues even if you exit the Stopwatch Mode.
- All of the operations in this section are performed in the Stopwatch Mode, which you enter by pressing (C).



Entering the Stopwatch Mode

Use the (C) button to enter the Stopwatch Mode.

- The second hand of Stopwatch A or Stopwatch B will move to 12 o'clock. "ST" will appear on the digital display.

Elapsed Time Measurement in Progress

If you enter the Stopwatch Mode while elapsed time measurement is being performed, the second hands of Stopwatch A and Stopwatch B will quickly move to the current elapsed second. The stopwatch minute hand and the digital display will indicate the minutes of the last stopwatch (A or B) you were viewing the last time you exited the Stopwatch Mode.

Elapsed Time Measurement Not in Progress

Both stopwatches will be reset to their starting positions, with the stopwatch minute hand stopped at 0 and the digital display showing 00. Stopwatch A will be standing by to start timing. The hour and minute hands of the watch indicate the current Timekeeping Mode time.

Elapsed Time Measurements

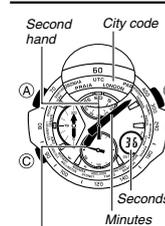
Perform the same steps for either of the stopwatches. Each stopwatch can be used to perform a separate timing operation.

- Press the (A) button to toggle between Stopwatch A and Stopwatch B.
 - The stopwatch minute hand and the digital display indicate the minutes and 1/100 seconds for the currently selected stopwatch.
- Press the (B) button to start and stop the currently selected stopwatch.
 - Pressing the (B) button to restart the stopwatch without resetting it to all zeros resumes elapsed time measurement from where it was last stopped.
 - Switching from one stopwatch to another does not stop any ongoing timing operation. The timing operations continue internally, even though they are not indicated on the display.

Resetting a Stopwatch

- To reset the currently selected stopwatch to its starting position, make sure it is stopped and then hold down the (B) button for about three seconds.
- To reset both of the stopwatches to their starting positions, make sure they are both stopped and then hold down the (A) button for about three seconds.

World Time



Current time (hour) in the currently selected World Time city

The World Time Mode shows you the current time in 29 cities (29 time zones) around the world.

- When you enter the World Time Mode, the second hand will move to the city code that is currently selected as the World Time city. At the same time, the hour and minute hands will move to the current time in that city.
- If the current time shown for a city is wrong, check your Home City settings and make the necessary changes.
- All of the operations in this section are performed in the World Time Mode.

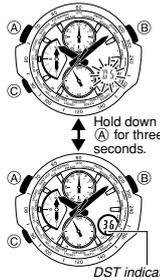
To view the time in another city

In the World Time Mode, use (B) to move the second hand to the city code you want to select as the World Time city.

- The hour hand, minute hand, and second display will change automatically to the applicable settings for the currently selected city code.
- All buttons (except for (C) for changing modes) are disabled while the hands and second display are changing.
- For full information on city codes, see the "City Code Table".

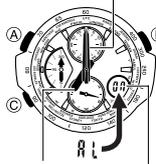
To toggle a city code time between Standard Time and Daylight Saving Time

- In the World Time Mode, use (B) to move the second hand to the city code whose Standard Time/Daylight Saving Time setting you want to change.
- Hold down (A) for about three seconds until the watch beeps to toggle Daylight Saving Time (DST indicator displayed) and Standard Time (DST indicator not displayed).

- Note that you cannot switch between Standard Time and Daylight Saving Time while **UTC** is selected as the city code.
 - Note that the Standard Time/Daylight Saving Time setting affects only the currently displayed city code. Other city codes are not affected.
- 

Alarm

Alarm time minute hand



Alarm time hour hand On/Off status

When the alarm is turned on, the alarm sounds when the alarm time is reached.
 • All of the operations in this section are performed in the Alarm Mode, which you enter by pressing **C**.

To set an alarm time

- In the Alarm Mode, hold down **A** for two seconds to enter the setting mode.
 - Use **B** to change the alarm time.
 - Press **B** to move the hands clockwise in one-minute steps.
- After setting the alarm time, press **A** to exit the setting mode.
 - Setting the alarm time causes the alarm to turn on automatically.

Alarm Operation

The alarm tone sounds at the preset time for 10 seconds, regardless of the mode the watch is in.

- Alarm operations are performed in accordance with the Timekeeping Mode time.
- Pressing any button stops the alarm tone operation.

To toggle an alarm on and off

- In the Alarm Mode, press **B** to toggle the alarm **ON** and **OF (OFF)**.
- The watch will beep when you turn on the alarm.

Adjusting the Home Positions

If the time and date settings are wrong even after the time calibration signal is received normally, use the following procedure to adjust their home positions.

To adjust the home positions

- In the Timekeeping Mode, press **C** four times to enter the Hand Setting Mode.
 - Hold down **A** for about three seconds until the watch beeps and **0 0** starts to flash, which indicates the analog setting screen.
 - The second hand is at the proper home position if it moves to 12 o'clock. If it doesn't, press **B** to move it to 12 o'clock.
 - After confirming that the second hand is at the proper home position, press **C**. This will switch to hour hand and minute hand home position adjustment (**Hm** flashes).
 - The hour hand and minute hand are at their proper home positions if they both move to 12 o'clock, and if the 24-hour hand is pointing at hour 24. If the hands are not positioned correctly, use **B** to move them to their proper home positions.
 - After confirming that the hour hand and minute hand are both at their proper home positions, press **C**. This will switch to stopwatch B second hand home position adjustment (**60** flashes).
 - The stopwatch B second hand is at the proper home position if it moves to 60. If it doesn't, use **B** to move it to 60.
 - After confirming that the stopwatch B second hand is at the proper home positions, press **C**. This will switch to stopwatch minute hand home position adjustment (**30** flashes).
 - The stopwatch minute hand is at the proper home position if it moves to 0. If it doesn't, use **B** to move it to 0.
 - Press **A** to exit the setting screen.
 - After you complete the home position adjustment procedure, place the watch in a location that allows good time calibration signal reception, and then perform a manual receive operation. See "To perform manual receive" for more information.



Hour hand Minute hand



24-hour hand

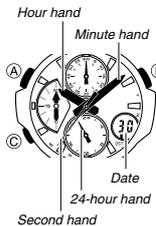


Stopwatch B second hand



Stopwatch minute hand

Timekeeping



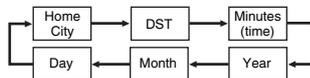
Hour hand Minute hand Date 24-hour hand Second hand

Use the Timekeeping Mode to set and view the current time and date. This section also explains how to set the current date and time manually.

- All of the operations in this section are performed in the Timekeeping Mode, which you enter by pressing **C**.

To set the time and date manually

- In the Timekeeping Mode, hold down **A** for about five seconds until the watch beeps twice.
 - The second hand will move to the city code of the currently selected Home City. This is the city code setting mode.
 - The DST indicator indicates that Daylight Saving Time (summer time) is turned on for the currently selected Home City.
- Use **B** to change the Home City setting.
 - For full information on city codes, see the "City Code Table".
- Press **C** to move the flashing in the sequence shown below to select other settings.



- When the setting you want to change is flashing, use **B** to change it as described below.

Screen	To do this:	Do this:
H 7	Change the Home City	Use B (+).
8 7	Toggle between Daylight Saving Time (D S), Standard Time (S F), or Auto DST (A T)	Press B .
0 0	Change the minutes (time)	Use B (+).
0 1	Change the year	Use B (+).
6	Change the month	Use B (+).
3 0	Change the day	

- Press **A** to exit the setting screen.
 - Pressing **A** any time during the above procedure will return to the Timekeeping Mode, where the timekeeping second hand will resume timekeeping from second 0.
 - When you exit the setting screen, the analog hands are adjusted automatically to match the digital time.

Daylight Saving Time (DST)

Daylight Saving Time (summer time) advances the time setting by one hour from Standard Time. Remember that not all countries or even local areas use Daylight Saving Time.

The time calibration signals include both Standard Time and DST data. When the auto DST setting is turned on, the watch switches between Standard Time and DST (summer time) automatically in accordance with the signal it receives.

- If you experience problems receiving the time calibration signal in your area, it is probably best to switch between Standard Time and Daylight Saving Time (summer time) manually.

Illumination



An LED (light-emitting diode) illuminates the face of the watch for easy reading in the dark. The watch's auto light switch illuminates the face automatically when you angle the watch towards your face.

- The auto light switch must be turned on for it to operate.
- See "Illumination Precautions" for other important information.

To illuminate the face of the watch

In the Timekeeping Mode (except when a setting screen is on the display), press **B** to illuminate the face of the watch for about one second.

- The above operation turns on illumination regardless of the current auto light switch setting.

About the Auto Light Switch

Turning on the auto light switch causes the face to illuminate, whenever you position your wrist as described below in any mode.

Moving the watch to a position that is parallel to the ground and then tilting it towards you at more than 40 degrees causes illumination to turn on.

- Wear the watch on the outside of your wrist.



Warning!

- Always make sure you are in a safe place whenever you are reading the face of watch using the auto light switch. Be especially careful when running or engaged in any other activity that can result in accident or injury. Also take care that sudden illumination by the auto light switch does not startle or distract others around you.
- When you are wearing the watch, make sure that its auto light switch is turned off before riding a bicycle, or operating a motorcycle or any other motor vehicle. Sudden and unintended operation of the auto light switch can create a distraction, which can result in a traffic accident and serious personal injury.

To turn the auto light switch on and off

In the Timekeeping Mode (except when a setting screen is on the display), hold down **B** for about three seconds to toggle the auto light switch on and off.

- Turning on the auto light switch will cause the watch to beep. The **ON** indicator will appear and the light will turn on for about one second.
- Turning off the auto light switch will cause the watch to beep. The **OF (OFF)** indicator will appear for about one second. The light will not turn on.
- In order to protect against running down the battery, the auto light switch turns off automatically approximately six hours after you turn it on.

Reference

This section contains more detailed and technical information about watch operation. It also contains important precautions and notes about the various features and functions of this watch.

Auto Return Features

- If you leave the watch in the Alarm or Hand Setting Mode for two or three minutes without performing any operation, it returns to the Timekeeping Mode automatically.
- If you do not perform any operation for about two or three minutes while a setting mode is selected, the watch will exit the setting mode automatically.

Scrolling

- The **B** button is used to change the hand setting in various setting modes. In most cases, holding down this button will start high-speed movement of the applicable hand(s).
- High-speed movement of hands will continue until you press any button, or until the moving hand(s) finishes one complete cycle.
 - One complete cycle for the hands is one revolution (360 degrees) or 24 hours.

Radio-controlled Atomic Timekeeping Precautions

- Strong electrostatic charge can result in the wrong time being set.
- The time calibration signal bounces off the ionosphere. Because of this, such factors as changes in the reflectivity of the ionosphere, as well as movement of the ionosphere to higher altitudes due to seasonal atmospheric changes or the time of day may change the reception range of the signal and make reception temporarily impossible.
- Even if the time calibration signal is received properly, certain conditions can cause the time setting to be off by up to one second.
- The current time setting in accordance with the time calibration signal takes priority over any time settings you make manually.
- The watch is designed to update the date and day of the week automatically for the period January 1, 2001 to December 31, 2099. Setting of the date by the time calibration signal cannot be performed starting from January 1, 2100.
- This watch can receive signals that differentiate between leap years and non-leap years.
- Though this watch is designed to receive both time data (hour, minutes, seconds) and date data (year, month, day), certain signal conditions can limit reception to time data only.
- If you are in an area where proper time calibration signal reception is impossible, the watch keeps time within ± 20 seconds a month at normal temperature.

Transmitters

This watch is designed to receive the time calibration signal transmitted from Mainflingen, Germany and the signal from Anthorn, England. You can configure the watch to select the transmitter that has the strongest signal automatically.

In this case:	The watch does this:
The first signal auto search operation after factory default settings are in effect, or after the city code has been changed	1. Checks the Mainflingen signal first. 2. If the Mainflingen signal cannot be received, checks the Anthorn signal.
Any case other than the above.	1. Checks the last successfully received signal first. 2. If the last successfully received signal cannot be received, checks the other signal.

Timekeeping

- The year can be set in the range of 2001 to 2099.
- The watch's built-in full automatic calendar makes allowances for different month lengths and leap years. Once you set the date, there should be no reason to change it except after you have the watch's battery replaced.
- The current time for all city codes in the Timekeeping Mode and World Time Mode is calculated in accordance with the Coordinated Universal Time (UTC)* for each city, based on your Home City time setting.
- * UTC is the world-wide scientific standard of timekeeping. It is based upon carefully maintained atomic (cesium) clocks that keep time accurately to within microseconds. Leap seconds are added or subtracted as necessary to keep UTC in sync with the Earth's rotation. The reference point for UTC is Greenwich, England.

World Time

- The seconds count of the World Time is synchronized with the seconds count of the Timekeeping Mode.

Illumination Precautions

- The illumination provided by the light may be hard to see when viewed under direct sunlight.
- Illumination turns off automatically whenever an alarm sounds.
- Frequent use of illumination shortens the battery operating time.

Auto light switch precautions

- Wearing the watch on the inside of your wrist, movement of your arm, or vibration of your arm can cause frequent activation of the auto light switch and illuminate the face of the watch. To avoid running down the battery, turn off the auto light switch whenever engaging in activities that might cause frequent illumination of the face.

More than 15 degrees too high



- Illumination may not turn on if the face of the watch is more than 15 degrees above or below parallel. Make sure that the back of your hand is parallel to the ground.
- Illumination turns off in about one second, even if you keep the watch pointed towards your face.
- Static electricity or magnetic force can interfere with proper operation of the auto light switch. If illumination does not turn on, try moving the watch back to the starting position (parallel with the ground) and then tilt it back towards your face again. If this does not work, drop your arm all the way down so it hangs at your side, and then bring it back up again.

- Under certain conditions, illumination may not turn on until about one second after you turn the face of the watch towards you. This does not necessarily indicate malfunction of the auto light switch.
- You may notice a very faint clicking sound coming from the watch when it is shaken back and forth. This sound is caused by mechanical operation of the auto light switch, and does not indicate a problem with the watch.

City Code Table

City Code	City	UTC Offset/ GMT Differential
PPG	Pago Pago	-11.0
HNL	Honolulu	-10.0
ANC	Anchorage	-09.0
LAX	Los Angeles	-08.0
DEN	Denver	-07.0
CHI	Chicago	-06.0
NYC	New York	-05.0
SCL	Santiago	-04.0
RIO	Rio De Janeiro	-03.0
FEN	Fernando De Noronha	-02.0
RAI	Praia	-01.0
UTC		+00.0
LON	London	+01.0
PAR	Paris	+01.0
ATH	Athens	+02.0
JED	Jeddah	+03.0
THR	Tehran	+03.5
DXB	Dubai	+04.0
KBL	Kabul	+04.5
KHI	Karachi	+05.0
DEL	Delhi	+05.5
DAC	Dhaka	+06.0
RGN	Yangon	+06.5
BKK	Bangkok	+07.0
HKG	Hong Kong	+08.0
TYO	Tokyo	+09.0
ADL	Adelaide	+09.5
SYD	Sydney	+10.0
NOU	Noumea	+11.0
WLG	Wellington	+12.0

- Based on data as of March 2008.
- The rules governing global times (UTC offset and GMT differential) and summer time are determined by each individual country.