## Warning!

- The measurement functions built into this watch are not intended for use in taking measurements that require professional or industrial precision. Values produced by this watch should be considered as reasonably accurate representations only.
- The longitude, lunitidal interval, Moon phase indicator and tide graph data that appear on the display of this watch are not intended for navigation purposes. Always use proper instruments and resources to obtain data for navigation purposes.
- This watch is not an instrument for calculating low tide and high tide times. The tide graph of this watch is intended to provide a reasonable approximation of tidal movements only.
CASIO COMPUTER CO., LTD. assumes no responsibility for any loss, or any claims by third parties that may arise through the use of this watch.

About This Manual

- 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.
- In any mode (except when a setting screen is on the display), press (L) to illuminate the display.


Timekeeping


Use the Timekeeping Mode to set and view the current time and date. date in accordance with the current ine as date in accor Mod The Moon phase ind
The Moe in phase indicator shows the current Moon Thase in accordance with the current date as kept in the Important! - Be sure to configure the current time and date, and your
Home Site data (data for the site where you use the Home Site data (data for the site where you use the
watch) correctly before using the functions of this watch See "Home Site Data" for more information.

Setting the Time and Date
This watch is preset with UTC offset values that represent each time zone around the globe. Before setting the time, be sure to set the UTC offset for your Home Site first, which is the location where you normally will be using the watch.

- Note that World Time Mode times are all displayed based on the time and date settings you configure in the Timekeeping Mode.

To set the time and date


Home time zone

1. In the Timekeeping Mode, hold down (A) until the seconds start to flash, which indicates the setting

- Be sure to configure the correct UTC offset for your Home Site before configuring any other Timekeeping Mode settings.
- See the "City Code Table" for information about the UTC offset settings that are supported.

2. Press (C) to move the flashing in the sequence shown below to select other settings.

3. When the setting you want to change is flashing, use (D) and (B) to change it as described below.

| Screen | To do this: | Do this: |
| :---: | :---: | :---: |
| 50 | Reset the seconds to 00 | Press (D). |
| OfF | Toggle between Daylight Saving Time (ffif) and Standard Time (f FF) | Press (D). |
| +90 | Specify the UTC offset | Use (D) (+) and (B) (-). |
| -10:58 | Change the hour or minutes | Use (D) (+) and (B) ( - ). |
| 21117 | Change the year |  |
| 6-30 | Change the month or day |  |

- See "Daylight Saving Time (DST)" for details about DST setting.
- When DST is turned on, the UTC offset setting range is -11.0 to +15.0 , in 0.5 -hour units.

4. Press (A) twice to exit the setting screen.

- The day of the week is displayed automatically in accordance with the date (year month, and day) settings.

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.
To toggle the Timekeeping Mode time between DST and Standard Time 1. In the Timekeeping Mode, hold down (A) until the seconds start to flash, which indicates the setting screen.
2. Press (©) to display the DST setting screen.
3. Press (D) to toggle between Daylight Saving Time
(on displayed) and Standard Time ( f FF displayed).
. Press (A) twice to exit the setting screen

- The DST indicator appears on the Timekeeping, and Time is turned on. In the case of the Tide/Moon Data Mode, the DST indicator appears on the Tide Data screen only.

To toggle between 12-hour and 24-hour timekeeping
In the Timekeeping Mode, press (D) to toggle between 12-hour timekeeping and 24hour timekeeping

- With the 12-hour format, the $\mathbf{P}$ (PM) indicator appears to the left of the hour digits for times in the range of noon to 11:59 p.m. and no indicator appears to the left of the hour digits for times in the range of midnight to 11:59 a.m.
 any indicator.
The 12-hour/24-hour timekeeping format you select in the Timekeeping Mode is
- The $\mathbf{P}$ indicator is not displayed when the current time is displayed in other modes.


## Operation Guide 3194

Home Site Data
Moon phase, tide graph data, and Tide/Moon Data Mode data will not be displayed properly unless Home Site data (UTC offset, longitude, and lunitidal interval) is configured correctly.

- The UTC offset is a value that indicates the time difference between a reference point in Greenwich, England and the time zone where a city is located.
- The letters "UTC" is the abbreviation for "Coordinated Universal Time", which 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 lunitidal interval is the time elapsing between the Moon's transit over a meridian and the next high tide at that meridian. See "Lunitidal Interval" for more information.
- This watch displays lunitidal intervals in terms of hours and minutes.
- The "Site/Lunitidal Interval Data List" provides UTC offset and longitude information
- The following is the initial factory default Home Site data (Tokyo, Japan) when you first purchase the watch, and whenever you have the battery replaced. Change these settings to match the area where you normally use the watch. UTC offset (+9.0); Longitude (East 140 degrees); Lunitidal interval (5 hours,
20 minutes) 20 minutes)


## To configure Home Site data



1. In the Timekeeping Mode, hold down (A) until the . In the Timekeeping Mode, hold down (A) until the
seconds start to flash, which indicates the setting screen.
2. Press (C) twice to display the UTC offset setting screen and confirm that the setting is correct.

- If the UTC offset setting is not correct, use (D) (+) and (B) $(-)$ to change it.

Longitude value 3. Press (A) to display the longitude value setting screen.
4. Press $C$ to move the flashing in the sequence shown below to select other settings.

5. When the setting you want to change is flashing, use (D) and (B) to change it as 5. When the setting

| Setting | Screen | Button Operations |
| :---: | :---: | :---: |
| Longitude Value |  | Use (D) $(+)$ and (B) $(-)$ to change the setting. <br> - You can specify a value in the range of $0^{\circ}$ to $180^{\circ}$, in 1-degree units. |
| Longitude (East/West) |  | Use (D) to switch between east longitude ( $\boldsymbol{\xi}$ ) and west longitude ( ${ }^{(i t)}$ ). |
| Lunitidal Interval Hours, Minutes | $\begin{array}{r} \text { INT } \\ 5: 20 \end{array}$ | Use (D) (+) and (B) (-) to change the setting. |

6. Press (A) to exit the setting screen.

Tide/Moon Data


Tide/Moon data lets you view the Moon age and Moon phase for a particular date, and tidal movements for a particular date and time at your Home Site.

- When you enter the Tide/Moon Data Mode, the data for 6:00 a.m. on the current date appears first
- If you suspect that the Tide/Moon data is not correct for some reason, check the Timekeeping Mode data (current time, date, and Home Site settings), and make
changes as required. - See "Moon Phase In
- See "Moon Phase Indicator" for information about the
Moon phase indicator and "Tide Graph" for information about the tide graph.
All of the operations in this section are performed in the Tide/Moon Data Mode, which you enter by pressing (C)
Tide/Moon Data Screens
In the Tide/Moon Data Mode, press (A) to toggle between the tide data screen and the Moon data screen.

- While the tide data screen is displayed, use (D) $(+)$ and (B) $(-)$ to change the displayed time in one-hour increments.
- While the Moon data screen is displayed, use (D) (+) and (B) $(-)$ to change the displayed date in one-day increments. Pressing (D) and (B) will display the year of the displayed date for about one second.
- You also can specify a particular date (year, month, day) to view its tide data and Moon data. See "To specify a date" for more information.
- When you enter the Tide/Moon Data Mode, the screen (tide data or Moon data) that was displayed the last time you exited the mode appears first.


## To specify a date



Month - Day

1. In the Tide/Moon Data Mode, hold down (A) until the year setting starts to flash, which indicates the setting screen.
2. Press (C) to move the flashing in the sequence shown below to select the other settings.

3. While a setting is flashing, use $D(+)$ or $B(-)$ to change - You can specify a date in the range of January 1 - You can specify a date in the
2000 to December 31, 2099.
4. Press (A) to exit the setting screen
5. Use (A) to display either the tide data screen or the Moon data screen.

Stopwatches


Timekeeping Mode time * During stopwatch elapsed During stopwatch elap
time measurement. time measurement,
shows the number shows the numb

Your watch has two stopwatch modes:Stopwatch Mode ST1) and Stopwatch Mode (ST2). Both stopwatch modes ishe measure elapsed time, spitit times, and two inishes. The Stopwatch Mode (ST1) includes Auto-Start. A display range of the stopwatch is 999 hours, 59 minutes, 59.99 seconds.
A stopwatch continues to run, restarting from zero after it reaches its limit, until you stop it
continues even if
Exiting a Stopwatch Mode while a split time is frozen on the display clears the split time and returns to elapsed time measurement.
All of the operations in this section are performed in the Stopwatch Mode (ST1) or Stopwatch Mode (ST2), which you enter by pressing ©.

To measure times with the stopwatch
(Stopwatch Mode (ST1) and Stopwatch Mode (ST2))


About Auto-Start (Stopwatch Mode (ST1))
With Auto-Start, the watch performs a 5 -second countdown, and stopwatch operation countdown reaches zero.
During the final three seconds of the countdown, a beeper sounds with each second.

To use Auto-Start (ST1)


Stopwatch Mos

- This displays a 5 -second countdown screen.
- To return to the all zeros screen, press (B) again

2. Press (D) to start the countdown.

When the countdown reaches zero, a tone sounds and a stopwatch timing operation starts automatically. progress starts the stopwatch immediately.

## Countdown Timer



The countdown timer can be set within a range of one minute to 24 hours. An alarm sounds when the countdown reaches zero. The countdown timer also has an autorepeat feature and a progress beeper that signals the
progress of the countdown.

- All of the operations in this section are performed in the Countdown Timer Mode, which you enter by pressing ©.

Configuring the Countdown Timer
The following are the settings you should configure before actually using the countdown timer
Countdown start time; Auto-repeat on/off; Progress

- See "To configure the countdown timer" for information about setting up the timer.
Auto-repeat
When auto-repeat is turned on, the countdo
countdown start time when it reaches zero.
display shows the original countdown start time
count (D) while an auto-repeat countdown is in progress pauses the current countdown. You can resume the auto-repeat countdown by pressing (D), or you can a

Countdown Timer Beeper Operations
The watch beeps at various times during a countdown so you can keep informed about the countdown status without looking at the display. The following describes the types of beeper operations the watch performs during a countdown.

## Countdown End Beeper

The countdown end beeper lets you know when the countdown reaches zero.
When the progress beeper is turned off, the countdown end beeper sounds for
When the progress beeper is turned on, the countdown end beeper sounds for about one second

## Progress Beeper

When the progress beeper is turned on, the watch uses beeps to signal countdown progress as described below.

- Starting from five minutes before the end of the countdown, the watch emits four short beeps at the top of each countdown minute.
- 30 seconds before the end of the countdown, the watch emits four short beeps.
- The watch emits a short beep for each of the last 10 seconds of the countdown. If the countdown start time is six minutes or greater, the watch emits a short beep for
each second of the final 10 seconds before the five-minute point is reached. Four short beeps are emitted to signal when the five-minute point is reached.


## Operation Guide 3194

To configure the countdown timer


While the countdown start time is on the display in the Countdown Timer Mode, hold down (A) until the current countdown start time starts to flash, which indicates the setting screen.

- If the countdown start time is not displayed, use the procedure under "To use the countdown timer" to display it.

2. Press © to move the flashing in the sequence shown below to select other settings.

3. When the setting you want to change is flashing, use (B) and (D) to change it as described below.

| Setting | Screen | Button Operation |
| :---: | :---: | :---: |
| Hours, Minutes | 0:00 | Use (D) (+) and (B) (-) to change the setting. |
| Auto-repeat | "曲 | Press (D) to toggle auto-repeat on ( displayed) and off $(\rightarrow$ displayed). |
| Progress Beeper | HiffF | Press (D) to toggle the progress beeper on (ON) and off (DFF). |

- To specify a countdown start time of 24 hours, set 0:00.

4. Press (A) to exit the setting screen.

- You can also perform steps 1 and 2 of the above procedure whenever you need to view the current auto-repeat and progress beeper settings.
To use the countdown timer
Press (D) while in the Countdown Timer Mode to start the
 countdown timer.
- The countdown timer operation continues even if you exit the Countdown Timer Mode.
press (D) while a countdown operation is in progress to pause it. Press (D) again to resume the countdown. (by pressing (D), and then press B.etely, first pause it (by pressing (D), and then press (B). This returns the countdown time to its starting value.


## Alarms



You can set up to five independent multi-function alarms with hour, minutes, month, and day. When an alarm is turned on, the alarm tone sounds when the alarm time is reached. One of the alarms is a snooze alarm, while the other four are one-time alarms
You can also turn on an Hourly Time Signal that causes the watch to beep twice every hour on the hour
FiLS and five alarm screens numbered for the one-time alarm, a snooze screen indicated by $\Xi N Z$. The Hourly Time Signal screen is indicated by $\leq I E$.

- All of the operations in this section are performed in the Alarm Mode, which you enter by pressing (C)

Alarm Types
The alarm type is determined by the settings you make, as described below.

- Daily alarm

Set the hour and minutes for the alarm time. This type of setting causes the alarm to sound everyday at the time you set.

- Date alarm Set the month, day, hour and minutes for the alarm time. This type of setting causes the alarm to sound at the specific time, on the specific date you set.
- 1-Month alarm
Set the month, hour and minutes for the alarm time. This type of setting causes the alarm to sound everyday at the time you set, only during the month you set.
- Monthly alarm

Set the day, hour and minutes for the alarm time. This type of setting causes the alarm to sound every month at the time you set, on the day you set.

## To set an alarm time

1. In the Alarm Mode, use (D) or (B) to scroll through the alarm screens until the one whose time you want to set


- To set a one-time alarm, display an alarm screen FLI f, FLLE, FL 3 , or FiL4. To set the snooze alarm, display the $\Xi \sqrt{2}$ s screen.

2. After you select an alarm hold every five minutes. starts to flash, which indicates the setting screen.

- This operation turns on the alarm automatically

3. Press (C) to move the flashing in the sequence shown below to select other settings

4. While a setting is flashing, use (D) and (B) to change it as described below.

| Screen | To do this: | Do this: |
| :---: | :---: | :---: |
| 12:돈 | Change the hour and minutes | Use (D) (+) and (B) (-). <br> - With the 12 -hour format, set the time correctly as a.m. or p.m. ( $\mathbf{P}$ indicator). <br> - To set an alarm that does not include a month and/or day, set - for each setting. |
| --- | Change the month and day |  |

[^0]Alarm Operation
The alarm tone sounds at the preset time for 20 seconds, regardless of the mode the
The alarm tone sounds at the preset time for 20 seconds, regardless of the mode the watch is in. In the case of the snooze alarm, the alarm operation is performed a total of

- Alarm and Hourly Time Signal operations are performed in accordance with the
- To stop the alarm tone after it starts to sound, press any button.
- Performing any one of the following operations during a 5-minute interval between snooze alarms cancels the current snooze alarm operation. Displaying the Timekeeping Mode setting screen
Displaying the $\Xi N / \mathbf{Z}$ setting screen
To test the alarm
In the Alarm Mode, hold down (D) to sound the alarm.
To turn an alarm on and off


In the Alarm Mode, use (D) to select an alarm.

- Turning on an alarm (FL $1, F L E, F L \Xi, F L 4$ ) displays the alarm on indicator, while turning on the snooze alarm ( $\Xi \mathrm{NZ}$ ) displays the snooze alarm indicator.
In all modes, the alarm on indicator is shown for alarm that is currently turned on.
The alarm on indicator flashes while the alarm is sounding.
The ze alarm indicator flashes while the snooze alarm is sounding and during the 5 -minute intervals between alarms.

To turn the Hourly Time Signal on and off

. In the Alarm Mode, use (D) to select the Hourly Time
Signal (EIG).
The Hourly Time Signal on indicator is shown on the display in all modes while this function is turned on.

World Time


World Time shows the current time in 48 cities ( 29 time All around the world.
All of the operations in this section are performed in the World Time Mode, which you enter by pressing (C).

To view the time for another city code
In the World Time Mode, press (D) to scroll eastwardly through city codes.
in the World Time Mode, press (B) to scroll westwardly hrough city codes.
For full information about city codes, see the "City Code If the
Timek current time for a city is wrong, check your make necessade time and time zone settings and make necessary changes.

To toggle a city code time between Standard Time and Daylight Saving Time 1. In the World Time Mode, use (D) (east) and B (west) to display the city code (time zone) whose Standard Time/ Daylight Saving Time setting you want to change. Saving Time (DST displayed) and Standard Time (DST Saving Time (DST displayed) and Standard Time (DST not displayed)
display a city codor is on the display whenever you durned on. - Note that the DST/Standard Time setting affects only the currently displayed city code. Other city codes are not affected.

Illumination


This watch has an EL (electro-luminescent) panel that causes the entire display to glow for easy reading in the ark. The watch's auto automatically when you ang owards your face.
The auto light switch must be turned on (indicated by See "llu light switch indicator) for it to operate. information.

To illuminate the display

- The above operation turns on illumination regardless of the current auto light switch setting.
- You can use the procedure below to select either 3 seconds or 5 seconds as the illumination duration. When you press (L), the illumination will remain on for abou 3 seconds or 5 seconds, depending on the current illumination duration setting.
To specify the illumination duration

1. In the Timekeeping Mode, hold down (A) until the . In the Timekeeping Mode, hold down (A) until the
seconds start to flash, which indicates the setting seconds
screen.
While the seconds are flashing, press (B) to toggle the setting between 3 seconds ( $\%$ ) and 5 seconds (䛓).
2. Press (A) twice to exit the setting screen.

## Operation Guide 3194

About the Auto Light Switch
While the auto light switch is enabled, illumination turns on 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 owards 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 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 on 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, hold down (B) for about three seconds to toggle the auto light switch on (auto light switch indicator displayed) or off (auto light switch indicator not displayed).
The auto light switch indicator is on the display in all modes while the auto light
- 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.

Moon Phase Indicator
shown below

| Moon Phase Indicator | ((v) $(1))$ |  | (0) |  |  | (1) | (1) | (VI) ${ }^{\text {(1) }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Moon Age | $\begin{array}{\|c\|} \hline 0.0-1.8 \\ 27.7-29.5 \\ \hline \end{array}$ | 1.9-5.5 | 5.6-9.2 | 9.3-12.9 | 13.0-16.6 | 16.7-20.2 | 20.3-23.9 | 24.0-27.6 |
| Moon Phase | $\begin{aligned} & \text { New } \\ & \text { Moon } \end{aligned}$ |  | First Quarter (Waxing) |  | $\begin{array}{\|l\|} \hline \text { Full } \\ \text { Moon } \end{array}$ |  | Last Quarter (Waning) |  |

- The Moon phase indicator shows the Moon as viewed at noon from a position in the Northern Hemisphere looking south. Note that at times the image shown by the Moon phase indicator may differ from that of the actual Moon in your area. -The left-right orientation of the Moon phase is reversed when viewing from the Southern Hemisphere or from a point near the equator.


## Moon Phases and Moon Age

The Moon goes through a regular 29.53-day cycle. During each cycle, the Moon appears to wax and wane as the relative positioning of the Earth, Moon, and Sun changes. The greater the angular distance between the Moon and the Sun,* the more we see illuminated.

* The angle to the Moon in relation to the direction at which the Sun is visible from the Earth.
This watch performs a rough calculation of the current Moon age starting from day of the moon age cycle. Since this watch performs calculations using integer values


## Tide Graph

The Tide Graph has six graphic segments, each of which indicates a different tide level. The current tide level is indicated by the displayed graphic segment.


## Tidal Movements

Tides are the periodic rise and fall of the water of oceans, seas, bays, and other bodies of water caused mainly by the gravitational interactions between the Earth, Moon and Sun. Tides rise and fall about every six hours. The tide graph of this watch interval. The lunitidal interval differs according to your current location so you must interval. The lunitidal interval differs according to your current location, so you mus - The tide graph displayed by this watch is based on the current Moon age Remember that the margin for error of the Moon age displayed by this watch is $\pm 1$ day. The greater the error in a particular Moon age, the greater the error in the resulting tide graph.

## Lunitidal Interval

Theoretically, high tide is at the Moon's transit over the meridian and low tide is about six hours later. Actual high tide occurs somewhat later, due to factors such as viscosity, friction, and underwater topography. Both the time differential between the Moon's transit over the meridian until high tide and the time differential between the Moon's transit over the meridian until low tide are known as the "lunitidal interval". When setting the lunitidal interval for this watch, use the time differential between the Moon's transit over the meridian until high tide.

Graphic Areas
There are two graphic areas named A and B .


- In all modes, graphic area A shows the Stopwatch Mode (ST1) minutes (one segment each for 5 minutes, 10 minutes, etc.).
- In all modes, graphic area B shows the Stopwatch Mode (ST2) minutes (one segment each for 5 minutes, 10 minutes, etc.).
Flash Alert

Flash Alert indicator
 To turn the button operation tone on and off
In any mode (except when a setting screen is on the
display), hold down (c) to toggle the button operation tone on (mute indicator not displayed) and off (mute indicator displayed).

- Holding down (c) to turn the button operation tone on or off also causes the watch's current mode to change. The mute indicator is displayed in all modes when the button operation tone is turned off.

Auto Return Features

- If you leave the watch in the Tide/Moon Data or Alarm Mode for two or three minutes without performing any operation, it automatically changes to the Timekeeping
If you
If you leave a screen with flashing digits on the display for two or three minutes without performing any operation, the watch automatically exits the setting screen.


## Scrolling

The (B) and (D) buttons are used in various modes and setting screens to scroll through data on the display. In most cases, holding down these buttons during a scroll operation scrolls at high speed.

## Initial Screens

When you enter the World Time or Alarm Mode, the data you were viewing when you last exited the mode appears first.

## Timekeeping

- Resetting the seconds to $\mathbf{8 E}$ while the current count is in the range of 30 to 59 causes the minutes to be increased by 1. In the range of 00 to 29 , the seconds are reset to 96 without changing the minutes.
- The year can be set in the range of 2000 to 2099
mes allowances for different month lengths and leap years. Once you set the date, there should be no reason to change except after you have the watch's battery replaced.


## World Time

All World Time Mode times are calculated from the current Home Site time in the Timekeeping Mode using UTC offset values.

- The seconds count of the World Time is synchronized with the seconds count of the Timekeeping Mode.
- The UTC offset is a value that indicates the time difference between a reference
point in Greenwich, England and the time zone where a city is located.
- The letters "UTC" is the abbreviation for "Coordinated Universal Time", which 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' rotation.


## Illumination Precautions

- The electro-luminescent panel that provides illumination loses power after very long
- Illumination may be hard to see when viewed under direct sunlight.
- The watch may emit an audible sound whenever the display is illuminated. This is due to vibration of the EL panel used for illumination, and does not indicate malfunction.
- Illumination turns off automatically whenever an alarm sounds.
- Frequent use of illumination runs down the battery.


## Operation Guide 3194

Auto light switch precautions

- Avoid wearing the watch on the inside of your wrist. Doing so causes the auto light switch to operate when it is not needed, which shortens battery life. If you want to
- 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 after the preset illumination duration (see "To specify the illumination duration"),
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 you again. If this does not work, drop you 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 mand coming from the watch when it is shaken with, witch, and does not indicate a problem with the watch.


## Specifications

Accuracy at normal temperature: $\pm 15$ seconds a month
Timekeeping: Hour, minutes, seconds, p.m. (P), month, day, day of the week Time format: 12-hour and 24-hour
Calendar system: Full Auto-calendar pre-programmed from the year 2000 to 2099 Other: Home Time zone (selectable in 0.5 -hour increments in the range of -12.0 to +14.0); Daylight Saving Time (summer time)/Standard Time
Tide/Moon Data: Moon phase indicator for specific date; Tide level for specific date
Stopwatch (ST1)
Measuring unit: $1 / 100$ second
Measuring capacity: 999:59' 59.99"
Measuring modes: Elapsed time, split time, two finishes
Other: Auto-Start
Stopwatch (ST2)
Measuring unit: 1/100 second
Measuring capacity: 999:59' 59.99
Measuring modes: Elapsed time, split time, two finishes
Countdown Timer
Measuring unit: 1 second
input range: 1 minute to 24 hours (1-minute increments and 1 -hour increments)
Other: Auto-repeat timing; Progress beeper
Alarms: 5 multi-function* alarms (four one-time alarms; one snooze alarm); Hourly Time Signal
*Alarm type: Daily alarm, date alarm, 1-month alarm, monthly alarm
World Time: 48 cities ( 29 time zones)
Other: Daylight Saving Time/Standard Time
Illumination: EL (electro-luminescent panel); Selectable illumination duration; Auto Light Switch
Other: Button operation tone on/off, Flash alert
Battery: One lithium battery (Type: CR2025)
Approximately 2 years on type CR2025; 20 seconds of alarm operation (with flash lert) per ay, 5 seconds of illumination per day

City Code Table

| $\begin{aligned} & \text { City } \\ & \text { Code } \end{aligned}$ | City | UTC offset// GMT Differential |
| :---: | :---: | :---: |
| PPG | Pago Pago | -11 |
| HNL | Honolulu | -10 |
| ANC | Anchorage | -9 |
| LAX | Los Angeles | -8 |
| DEN | Denver | -7 |
| MEX | Mexico City | -6 |
| CHI | Chicago | -6 |
| NYC | New York | -5 |
| CCS* | Caracas | -4 |
| YYT | St. Johns | -3.5 |
| RIO | Rio De Janeiro | -3 |
| BUE | Buenos Aires | -3 |
| RAI | Praia | -1 |
| LON | London |  |
| DKR | Dakar | 0 |
| MAD | Madrid | +1 |
| PAR | Paris |  |
| MCM | Monte Carlo |  |
| ROM | Rome |  |
| BER | Berlin |  |
| STO | Stockholm |  |
| ATH | Athens | +2 |
| JNB | Johannesburg |  |
| ANK | Ankara |  |


| City Code | City | UTC offset/ GMT Differentia |
| :---: | :---: | :---: |
| NIC | Nicosia | +2 |
| HEL | Helsinki |  |
| CAI | Cairo |  |
| JRS | Jerusalem |  |
| MOW | Moscow | +3 |
| JED | Jeddah |  |
| THR | Tehran | +3.5 |
| DXB | Dubai | +4 |
| KBL | Kabul | +4.5 |
| KHI | Karachi | +5 |
| DEL | Delhi | +5.5 |
| DAC | Dhaka | +6 |
| RGN | Yangon | $+6.5$ |
| BKK | Bangkok | +7 |
| SIN | Singapore | +8 |
| HKG | Hong Kong |  |
| BJS | Beijing |  |
| PER | Perth |  |
| SEL | Seoul | +9 |
| TYO | Tokyo |  |
| ADL | Adelaide | +9.5 |
| SYD | Sydney | +10 |
| NOU | Noumea | +11 |
| WLG | Wellington | +12 |

- Based on data as of December 2008.
- The rules governing global times (UTC offset and GMT differential) and summer * time are determined by each individual country.
watch displays an offset of -4 (the old offset) for the CCS

Site/Lunitidal Interval Data List

| Site | UTC offset |  | Longitude | Lunitidal Interval |
| :---: | :---: | :---: | :---: | :---: |
|  | Standard | $\begin{array}{c\|} \text { DST/ } \\ \text { Summer Time } \end{array}$ |  |  |
| Anchorage | -9 | -8 | $149{ }^{\circ} \mathrm{W}$ | 5:40 |
| Bahamas | -5 | -4 | $77^{\circ} \mathrm{W}$ | 7:30 |
| Baja, California | -7 | -6 | $110^{\circ} \mathrm{W}$ | 8:40 |
| Bangkok | +7 | +8 | $101^{\circ} \mathrm{E}$ | 4:40 |
| Boston | -5 | -4 | $71^{\circ} \mathrm{W}$ | 11:20 |
| Buenos Aires | -3 | -2 | $58^{\circ} \mathrm{W}$ | 6:00 |
| Casablanca | 0 | +1 | $8^{\circ} \mathrm{W}$ | 1:30 |
| Christmas Island | +14 | +15 | $158^{\circ} \mathrm{W}$ | 4:00 |
| Dakar | 0 | +1 | $17^{\circ} \mathrm{W}$ | 7:40 |
| Gold Coast | +10 | +11 | $154{ }^{\circ} \mathrm{E}$ | 8:30 |
| Great Barrier Reet, Cairns | +10 | +11 | $146^{\circ} \mathrm{E}$ | 9:40 |
| Guam | +10 | +11 | $145^{\circ} \mathrm{E}$ | 7:40 |
| Hamburg | +1 | +2 | $10^{\circ} \mathrm{E}$ | 4:50 |
| Hong Kong | +8 | +9 | $114{ }^{\circ} \mathrm{E}$ | 9:10 |
| Honolulu | -10 | -9 | $158^{\circ} \mathrm{W}$ | 3:40 |
| Jakarta | +7 | +8 | $107^{\circ} \mathrm{E}$ | 0:00 |
| Jeddah | +3 | +4 | $39^{\circ} \mathrm{E}$ | 6:30 |
| Karachi | +5 | +6 | $67^{\circ} \mathrm{E}$ | 10:10 |
| Kona, Hawaii | -10 | -9 | $156^{\circ} \mathrm{W}$ | 4:00 |
| Lima | -5 | -4 | $77^{\circ} \mathrm{W}$ | 5:20 |
| Lisbon | 0 | +1 | $9^{\circ} \mathrm{W}$ | 2:00 |
| London | 0 | +1 | $0^{\circ} \mathrm{E}$ | 1:10 |
| Los Angeles | -8 | -7 | $118^{\circ} \mathrm{W}$ | 9:20 |
| Maldives | +5 | $+6$ | $74^{\circ} \mathrm{E}$ | 0:10 |
| Manila | +8 | +9 | $121^{\circ} \mathrm{E}$ | 10:30 |
| Mauritius | +4 | +5 | $57^{\circ} \mathrm{E}$ | 0:50 |
| Melbourne | +10 | +11 | $145^{\circ} \mathrm{E}$ | 2:10 |
| Miami | -5 | -4 | $80^{\circ} \mathrm{W}$ | 7:30 |
| Noumea | +11 | +12 | $166^{\circ} \mathrm{E}$ | 8:30 |
| Pago Pago | -11 | -10 | $171^{\circ} \mathrm{W}$ | 6:40 |
| Palau | +9 | +10 | $135^{\circ} \mathrm{E}$ | 7:30 |
| Panama City | -5 | -4 | $80^{\circ} \mathrm{W}$ | 3:00 |
| Papeete | -10 | -9 | $150^{\circ} \mathrm{W}$ | 0:10 |
| Rio De Janeiro | -3 | -2 | $43^{\circ} \mathrm{W}$ | 3:10 |
| Seattle | -8 | -7 | $122^{\circ} \mathrm{W}$ | 4:20 |
| Shanghai | +8 | +9 | $121^{\circ} \mathrm{E}$ | 1:20 |
| Singapore | +8 | +9 | $104{ }^{\circ} \mathrm{E}$ | 10:20 |
| Sydney | +10 | +11 | $151^{\circ} \mathrm{E}$ | 8:40 |
| Tokyo | +9 | +10 | $140^{\circ} \mathrm{E}$ | 5:20 |
| Vancouver | -8 | -7 | $123^{\circ} \mathrm{W}$ | 5:10 |
| Wellington | +12 | +13 | $175^{\circ} \mathrm{E}$ | 4:50 |

*Based on data as of 2003.
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[^0]:    5. Press (A) to exit the setting screen
