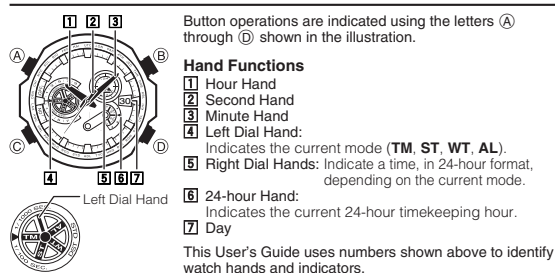# Operation Guide 5182

**CASIO**®

Congratulations upon your selection of this CASIO watch.

• Note that the product illustrations in this manual are intended for reference only, and so the actual product may appear somewhat different than depicted by an illustration.

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.
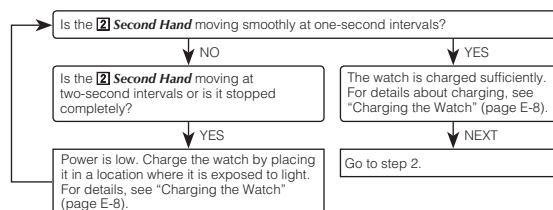
## About This Manual

Button operations are indicated using the letters Ⓐ through Ⓓ shown in the illustration.

**Hand Functions**
1 Hour Hand
2 Second Hand
3 Minute Hand
4 Left Dial Hand:
    Indicates the current mode (**TM**, **ST**, **WT**, **AL**).
5 Right Dial Hands: Indicate a time, in 24-hour format, depending on the current mode.
6 24-hour Hand:
    Indicates the current 24-hour timekeeping hour.
7 Day

Left Dial Hand

This User's Guide uses numbers shown above to identify watch hands and indicators.

## Things to check before using the watch

1. Hold down Ⓒ at least two seconds to enter the Timekeeping Mode, and then observe the movement of the 2 *Second Hand*.

Is the 2 *Second Hand* moving smoothly at one-second intervals?

NO → Is the 2 *Second Hand* moving at two-second intervals or is it stopped completely?

YES → The watch is charged sufficiently. For details about charging, see "Charging the Watch" (page E-8).

YES → Power is low. Charge the watch by placing it in a location where it is exposed to light. For details, see "Charging the Watch" (page E-8).

NEXT → Go to step 2.

### 2. Check the Home City and the daylight saving time (DST) setting.

Use the procedure under "To configure summer time and other Home City settings" (page E-24) to configure your Home City and daylight saving time settings.

**Important!**
Proper World Time setting depends on correct Home City, time, and date settings in the Timekeeping Mode. Make sure you configure these settings correctly.

### 3. Set the current time.

See "Configuring Current Time and Date Settings" (page E-27).

**The watch is now ready for use.**

## Contents

## Charging the Watch

The face of the watch is a solar cell that generates power from light. The generated power charges a built-in rechargeable battery, which powers watch operations. The watch charges whenever it is exposed to light.

### Charging Guide

Whenever you are not wearing the watch, leave it in a location where it is exposed to light.
• Best charging performance is achieved by exposing the watch to light that is as strong as possible.

When wearing the watch, make sure that its face is not blocked from light by the sleeve of your clothing.
• The watch may enter a sleep state (page E-14) if its face is blocked by your sleeve even only partially.

**Warning!**
**Leaving the watch in bright light for charging can cause it to become quite hot. Take care when handling the watch to avoid burn injury. The watch can become particularly hot when exposed to the following conditions for long periods.**
• On the dashboard of a car parked in direct sunlight
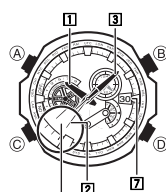• Too close to an incandescent lamp
• Under direct sunlight

**Important!**
• Keep the watch in an area normally exposed to bright light when storing it for long periods. This helps to ensure that power does not run down.
• Storing the watch for long periods in an area where there is no light or wearing it in such a way that it is blocked from exposure to light can cause power to run down. Make sure that the watch is exposed to bright light whenever possible.

### Power Levels



Moves at two-second intervals.

You can get an idea of the watch's power level by observing the movement of the [2] *Second Hand* in the Timekeeping Mode.
• If the [2] *Second Hand* is moving normally at one-second intervals, power is at Level 1.
• If the [2] *Second Hand* is moving at two-second intervals, power is at Level 2, which is quite low. Expose the watch to light as soon as possible so it can charge.

| Level | Hand Movement | Function Status |
|---|---|---|
| 1 | Normal. | All functions enabled |
| 2 | [2] *Second Hand* moves at two-second intervals. [7] *Day* changes to **1** (home position). | Beeper disabled |
| 3 | [2] *Second Hand* stopped. [1] *Hour Hand* and [3] *Minute Hand* stopped at 12 o'clock. | All functions disabled |

• When power drops to Level 3, all functions will be disabled but the watch will continue to keep time internally for about one week. If you recharge the battery sufficiently during this period, the analog hands will move automatically to the correct setting and regular timekeeping will resume. After one week, all settings (including timekeeping) will be cleared. Recharging the battery will reset all settings to their initial factory defaults.

### Power Recovery Mode
The watch is designed to go into a power recovery mode that stops hand operation temporarily whenever power suddenly drops below a certain level due to overuse of the alarm tone over a short period. Note that all operations are disabled while the watch is in the power recovery mode.
The hands will move to the correct positions and the watch will resume normal operation after power recovers (in about 15 minutes). Putting the watch in a location where it is exposed to light will help power to recover sooner.

### Charging Times

| Exposure Level (Brightness) | Daily Operation *1 | Level Change *2 | | |
|---|---|---|---|---|
| | | Level 3 | Level 2 | Level 1 |
| Outdoor sunlight (50,000 lux) | 8 minutes | 2 hours | | 27 hours |
| Window sunlight (10,000 lux) | 30 minutes | 6 hours | | 100 hours |
| Window sunlight on cloudy day (5,000 lux) | 48 minutes | 10 hours | | 162 hours |
| Indoor fluorescent lighting (500 lux) | 8 hours | 112 hours | | – – – |

* 1 Approximate exposure each day to generate power for normal daily operation.
* 2 Approximate exposure to take power up one level.
• The above times are for reference only. Actual times depend on lighting conditions.
• For details about the operating time and daily operating conditions, see the "Power Supply" section of the Specifications (page E-59).

### Power Saving
Power Saving enters a sleep state automatically whenever the watch is left for a certain period in an area where it is dark. The table below shows how watch functions are affected by Power Saving.
• There actually are two sleep state levels: "second hand sleep" and "function sleep".

| Elapsed Time in Dark | Operation |
|---|---|
| 60 to 70 minutes (second hand sleep) | [2] *Second Hand* only stopped at 12 o'clock, all other functions enabled |
| 6 or 7 days (function sleep) | • All functions, including analog timekeeping, disabled<br>• Internal timekeeping maintained |

• The watch will not enter a sleep state between 6:00 AM and 9:59 PM. If the watch is already in a sleep state when 6:00 AM arrives, however, it will remain in the sleep state.
• The watch will not enter a sleep state while it is in the Stopwatch Mode.

**To recover from the sleep state**
Move the watch to a well-lit area or press any button.

### Mode Reference Guide
Your watch has four "modes". The mode you should select depends on what you want to do.

**Note**
• There are also various setting modes, which you can enter by holding down Ⓐ in the Timekeeping Mode. See "Setting Modes" (page E-20) for more information.
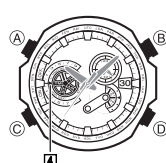
| To do this: | Enter this mode: | See: |
|---|---|---|
| • View the current time in your Home City and in one of 29 other cities around the globe<br>• View the current date in the Home City | Timekeeping Mode | E-23 |
| Use the stopwatch to measure elapsed time | Stopwatch Mode | E-35 |
| • Select one of 29 cities (time zones) around the world and view the current time there<br>• Select daylight saving/summer time (DST) or standard time for a time zone | World Time Mode | E-40 |
| Set an alarm time | Alarm Mode | E-46 |

### Selecting a Mode
With this watch, everything starts from the Timekeeping Mode.
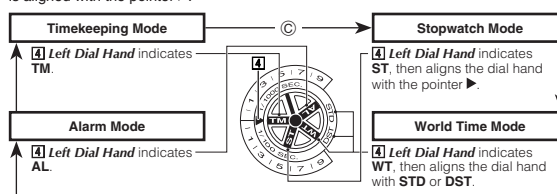


**To determine the watch's current mode**
Check the position of the [4] *Left Dial Hand* as shown under "To select a mode" (page E-19).

**To return to the Timekeeping Mode from any other mode**
Hold down Ⓒ for at least two seconds.

**To select a mode**
Press Ⓒ to cycle between the modes as shown below. The [4] *Left Dial Hand* indicates the currently selected mode.
The [4] *Left Dial Hand* rotates so the indicator for the current mode (**TM**, **ST**, **WT**, **AL**) is aligned with the pointer ▶.



**Timekeeping Mode**
[4] *Left Dial Hand* indicates **TM**.

**Alarm Mode**
[4] *Left Dial Hand* indicates **AL**.

**Stopwatch Mode**
[4] *Left Dial Hand* indicates **ST**, then aligns the dial hand with the pointer ▶.

**World Time Mode**
[4] *Left Dial Hand* indicates **WT**, then aligns the dial hand with **STD** or **DST**.
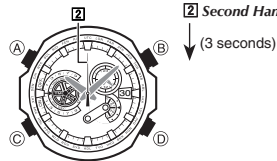
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## Setting Modes

The watch has a number of setting modes that you can use to configure its settings. In the Timekeeping Mode, hold down Ⓐ until the setting mode you want is selected as described below. Release Ⓐ when the setting mode you want is selected.
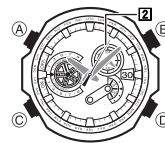
### To select a setting mode
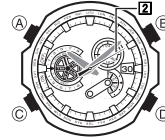
Hold down Ⓐ.

② *Second Hand* moves to 12 o'clock.

↓ (3 seconds)

② *Second Hand* moves to 1 o'clock, indicating the Home City Setting Mode. See "To configure summer time and other Home City settings" (page E-24).
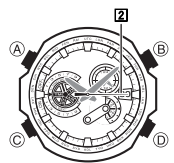
↓ (3 seconds)

② *Second Hand* moves to 2 o'clock, indicating the Time Setting Mode. See "To change the current time setting" (page E-27).

↓ (3 seconds)

② *Second Hand* moves to 3 o'clock, indicating the Home Position Adjustment Mode. See "To adjust home positions" (page E-49).
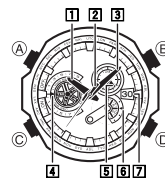
↓ (3 seconds)

Watch returns to normal timekeeping.

• If the ② *Second Hand* home position is off due to the watch having been subjected to strong magnetism or other abnormal treatment, the second hand may point to other positions than those described in the above procedure.

## Timekeeping

Use the Timekeeping Mode to view the current time and date. To enter the Timekeeping Mode from any other mode, hold down Ⓒ at least two seconds.
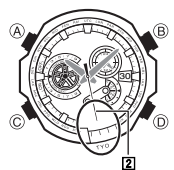
**Hand Functions**
1 Hour Hand
2 Second Hand
3 Minute Hand
4 Left Dial Hand: Indicates **TM**.
5 Right Dial Hands:
   Indicate the current time in the World Time City (page E-40) in 24-hour format.
6 24-hour Hand:
   Indicates the current 24-hour timekeeping hour.
7 Day

## Configuring Home City Settings

There are two Home City settings: actually selecting the Home City and selecting either standard time or daylight saving time (DST).
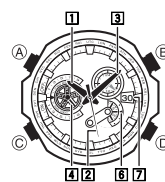
### To configure summer time and other Home City settings

**Note**
• This watch does not have a city code that corresponds to Newfoundland.

1. Use Ⓐ as shown under "Setting Modes" (page E-20) to enter the "Home City Setting" mode.
   • The watch will exit the setting mode automatically if you do not perform any operation for about two or three minutes.
   • For details about city codes, see the "City Code Table" at the back of this manual.

2. To change the Home City setting, press Ⓓ to move the ② *Second Hand* clockwise.
   • Press Ⓓ as many times as necessary until the ② *Second Hand* is pointing at the city code you want to select as your Home City.
   • Holding down Ⓓ causes the ② *Second Hand* to move at high speed.
   • Each time you change the city code setting, the 1 *Hour Hand*, 3 *Minute Hand*, 6 *24-hour Hand* and 7 *Day* move to the current time and date for that city code. Do not perform the next operation until these hands stop moving.

3. Press Ⓑ to select **STD** (standard time) or **DST** (daylight saving time) for the currently selected city code.
   • While you are selecting the Home City code, the 4 *Left Dial Hand* will indicate the setting (**STD**, **DST**) of the currently selected city code.
   – The following explains each of the available summer time settings.

| STD | With this setting, the watch always indicates standard time. It does not indicate summer time. |
|-----|---------|
| DST | With this setting, the watch advances its time setting by one hour to indicate summer time (daylight saving time). |

• Note that you cannot change the summer time setting while **UTC** is selected as your Home City.

4. After all the settings are the way you want, press Ⓐ to return to the Timekeeping Mode.
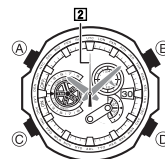
**Note**
• After you specify a city code, the watch will use UTC* offsets to calculate the World Time based on the current time in your Home City.
* Coordinated Universal Time, the world-wide scientific standard of timekeeping. The reference point for UTC is Greenwich, England.
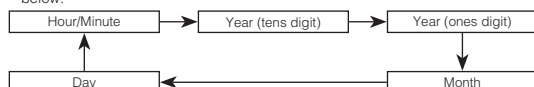
## Configuring Current Time and Date Settings
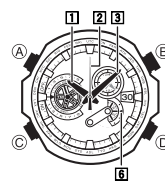
You can configure current time and date settings.

### To change the current time setting

1. Use Ⓐ as shown under "Setting Modes" (page E-20) to enter the "Time Setting" mode.
   • The ② *Second Hand* will move to 12 o'clock. This is the time setting mode.

• In the following steps, each press of Ⓒ cycles between settings as shown below.

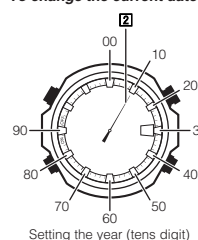Hour/Minute → Year (tens digit) → Year (ones digit)
↑ Day ← Month ←

2. Use Ⓓ (+) and Ⓑ (–) to change the time (hour and minute) setting.
   • Each press of either button will move the hands (1 *Hour Hand* and 3 *Minute Hand*) one minute.
   • Holding down Ⓓ or Ⓑ will start high-speed 1 *Hour Hand* and 3 *Minute Hand* movement in the applicable direction. To stop high-speed hand movement, press any button.
   • The 6 *24-hour Hand* and 1 *Hour Hand* move in sync with each other.
   • When setting the time, make sure that the 6 *24-hour Hand* indicates the proper a.m./p.m. hour.
   • If you want to change the date setting at this time, press Ⓒ and perform the procedure starting from step 3 under "To change the current date setting" (page E-31).

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3. After the time setting is the way you want, press Ⓐ to return to regular timekeeping.
   • This will cause the ② *Second Hand* to move automatically to 12 o'clock and resume movement from there.

---
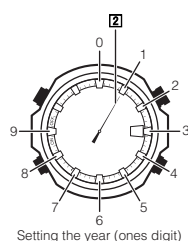
**To change the current date setting**
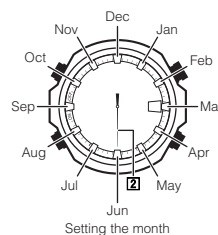

Setting the year (tens digit)

1. Use Ⓐ as shown under "Setting Modes" (page E-20) to enter the "Time Setting" mode.
2. Press Ⓒ.
   • The ② *Second Hand* will move to the tens digit of the current year setting. This is the year setting mode.
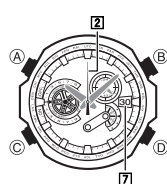   • The year can be set in the range of 2000 to 2099.

---


Setting the year (ones digit)

3. Press Ⓓ to move the ② *Second Hand* clockwise until it is pointing at the year tens digit you want to select.
4. After you select the year tens digit, press Ⓒ.
   • The ② *Second Hand* will move to the ones digit of the current year.
5. Press Ⓓ to move the ② *Second Hand* clockwise until it is pointing at the year ones digit you want to select.

---


Setting the month

6. After you select the year ones digit, press Ⓒ.
   • The ② *Second Hand* will move to the currently selected month. This is the month setting mode.
7. Use Ⓓ to move the ② *Second Hand* to the month setting you want.
8. After the month setting is the way you want, press Ⓒ.
   • The ② *Second Hand* will move to 12 o'clock, and the watch will enter the day setting mode.

---



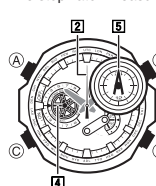9. Use Ⓓ (+) and Ⓑ (–) to change the ⑦ *Day* setting.
   • If you want to change the time setting at this time, press Ⓒ and then perform the procedure starting from step 2 under "To change the current time setting" (page E-27).
10. After the settings are the way you want, press Ⓐ to return to regular timekeeping.
    • This will cause the ② *Second Hand* to move automatically to 12 o'clock and resume movement from there.

**Note**
• 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 rechargeable battery replaced or after power drops to Level 3.

---

## Using the Stopwatch
The stopwatch measures elapsed time.



**Hand Functions**
② Second Hand: Indicates the stopwatch 1/10-second count.
④ Left Dial Hand:
   When you stop an elapsed time measurement operation, momentarily indicates: the 1/100-second value (lower dial scale), then the 1/1000-second value (upper dial scale), then the pointer (▶). This cycle is performed twice and then stops.
⑤ Right Dial Hands: Indicate the stopwatch minutes and seconds.

---

**To perform elapsed time measurement**
1. Use Ⓒ to rotate the ④ *Left Dial Hand* until **ST** is located next to the pointer (▶).
   • This indicates the Stopwatch Mode.
2. Now you can perform either of following stopwatch operations.
   • You will not be able to perform any stopwatch operation while the hands are moving to their initial positions after you enter the Stopwatch Mode.

**To perform an elapsed time operation**

Ⓑ → Ⓑ → Ⓑ → Ⓑ → Ⓓ
Start  Stop  (Restart)  (Stop)  Reset

---

**Note**
• The Stopwatch Mode can indicate elapsed time up to 23 minutes, 59.999 seconds.
• In the following cases, the hands of the watch are moving, so pressing Ⓓ or Ⓑ will not perform any stopwatch operation.
  – While the hands are moving to elapsed timekeeping after you enter the Stopwatch Mode
  – While the ④ *Left Dial Hand* is moving between 1/100-second and 1/1000-second indications after an elapsed time measurement operation is stopped
  – While the watch is changing dates at midnight
• Once you start an elapsed time measurement operation, it continues until you press Ⓑ to stop it or until 24 hours have elapsed (when it stops automatically). Timing continues even if you exit the Stopwatch Mode or if timing reaches the stopwatch limit defined above.
• Whenever you enter the Stopwatch Mode, the hands of the watch move to their initial Stopwatch Mode positions. If you did not reset the stopwatch the last time you used it, the hands will return to the positions they were in the last time you exited the Stopwatch Mode.
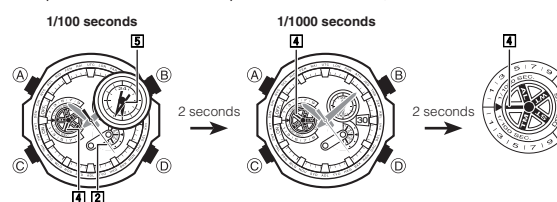
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• The ② *Second Hand* (indicating 1/10 seconds) and ④ *Left Dial Hand* (indicating 1/100 seconds and 1/1000 seconds) move during the first 30 seconds after an elapsed time measurement is started or restarted. When the measurement operation is stopped, they indicate timing results.

**Elapsed Time Measurement Results**
• The hands of the watch indicate the following information in the Stopwatch Mode: minutes, seconds, 1/10 seconds (page E-35).
• Whenever you stop an elapsed time measurement operation, the ④ *Left Dial Hand* moves to indicate the following for two seconds each.
  – (1) 1/100 seconds, (2) 1/1000 seconds, (3) Pointer (▶)
    The above cycle is performed twice.
  – To repeat the above cycle, press Ⓐ.

---

Example: When the measured elapsed time is 12 minutes, 34.452 seconds


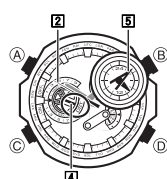
1/100 seconds    →  2 seconds  →  1/1000 seconds  →  2 seconds  →

## Checking the Current Time in a Different Time Zone

You can use the World Time Mode to view the current time in one of 29 time zones around the globe. Each time zone has a "city code", which is a three-letter abbreviation of a representative city in the zone. The representative city of the time zone that is currently selected in the World Time Mode is called the "World Time City".



**Hand Functions**

**2** Second Hand: Indicates the currently selected World Time City.

**4** Left Dial Hand: Indicates the summer time setting (**STD**, **DST**) for the currently selected World Time City.

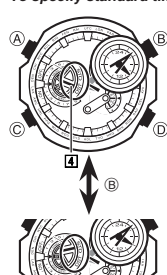**5** Right Dial Hands: Indicate the current time in the selected World Time City in 24-hour format.

### To view the time in another time zone

1. Use Ⓒ to rotate the **4** *Left Dial Hand* until **WT** is located next to the pointer (▶).
   • This indicates the World Time Mode.
2. Use Ⓓ to move the **2** *Second Hand* to the city code you want to select as the World Time City.
   • The **5** *Right Dial Hands* will move to the current time in the currently selected World Time City. At this time, the **1** *Hour Hand* and **3** *Minute Hand* will continue to indicate the current time in the Home City.
   • Holding down Ⓓ causes the **2** *Second Hand* to move at high speed.
   • For full information on city codes, see the "City Code Table" at the back of this manual.
   • If you think that the time indicated for the selected World Time City is not correct, it probably means that there is something wrong with your Home City settings. Use the procedure under "To configure summer time and other Home City settings" (page E-24) to correct the Home City settings.

### To specify standard time or daylight saving time (DST) for a time zone



1. In the World Time Mode, use Ⓓ to select the city code for the time whose setting you want to change.
2. Press Ⓑ to toggle the **4** *Left Dial Hand* between **STD** (standard time) and **DST** (daylight saving time).
   • Note that you cannot switch between **STD** (standard time)/**DST** (daylight saving/summer time) while **UTC** is selected as the World Time City.
   • Note that the **STD** (standard time)/**DST** (daylight saving/summer time) setting affects only the currently selected time zone. Other time zones are not affected.

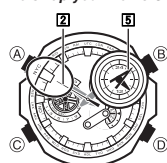### Swapping your Home City and World Time City

You can use the procedure below to swap your Home City and World Time City. This capability can come in handy when you frequently travel between two locations in different time zones.

The following example shows what happens when the Home City and World Time City are swapped while the Home City originally is **TYO** (Tokyo) and the World Time City is **NYC** (New York).
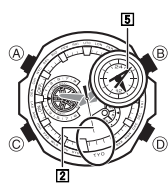
|  | Home City | World Time City |
|---|---|---|
| Before swapping | Tokyo 10:08 p.m. (Standard time) | New York 9:08 a.m. (Daylight saving time) |
| After swapping | New York 9:08 a.m. (Daylight saving time) | Tokyo 10:08 p.m. (Standard time) |

### To swap your Home City and World Time City



1. In the World Time Mode, use Ⓓ to select the World Time City you want.
   • In this example, you would move the **2** *Second Hand* to **NYC** in order to select New York as the World Time City.
   • Wait until the **5** *Right Dial Hands* complete their move to the time in the currently selected World Time City. You will not be able to perform step 2 of this procedure until the hands stop moving.
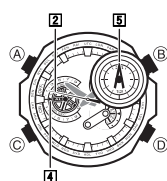
2. Hold down Ⓐ for about three seconds until the watch beeps.
   • This will make the World Time City (**NYC** in this example) your new Home City. At the same time, it will change the Home City you had selected prior to step 2 (**TYO** in this example) to your World Time City.
   • After swapping the Home City and World Time City, the watch will stay in the World Time Mode. The **2** *Second Hand* will point to your new World Time City (**TYO** in this example).
   • The **5** *Right Dial Hands* will indicate the current time in your new World Time City.

## Using the Alarm

When the alarm is turned on, an alarm will sound for about 10 seconds each day when the time in the Timekeeping Mode reaches the preset alarm time. This is true even if the watch is not in the Timekeeping Mode.



**Hand Functions**

**2** Second Hand: Indicates the current alarm ON/OFF setting.

**4** Left Dial Hand: Points to **AL**.

**5** Right Dial Hands: Indicate the current alarm time setting in 24-hour format.

### To change the alarm time setting

1. Use Ⓒ to rotate the **4** *Left Dial Hand* until **AL** is located next to the pointer (▶).
   • This indicates the Alarm Mode.
2. Use Ⓓ (+) and Ⓑ (–) to change the alarm time setting.
   • Each press of either button will move the **5** *Right Dial Hands* one minute.
   • Holding down Ⓓ or Ⓑ will start high-speed hand movement in the applicable direction. To stop high-speed hand movement, press any button.
   • The alarm always works based on the time kept in the Timekeeping Mode.
   • The watch will return to the Timekeeping Mode automatically if you do not perform any operation in the Alarm Mode for about two or three minutes.

### To turn the alarm on or off

In the Alarm Mode, press Ⓐ to toggle the alarm on and off. The **2** *Second Hand* will indicate the current ON/OFF setting.

### To stop the alarm

Press any button.

## Adjusting Home Positions

Strong magnetism or impact can cause the hands and/or date of the watch to be off. If this happens, perform the applicable home position adjustment procedures in this section.
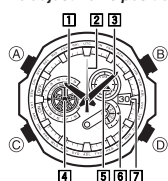
• Hand home position adjustment is not required if the time and day settings are correct.

**Note**

Any time after you enter the home position adjustment mode in step 1 of the following procedure, you can return to the Timekeeping Mode by pressing Ⓐ. The watch also will return to the Timekeeping Mode automatically if you do not perform any operation for about two or three minutes in the home position adjustment mode. In either case, any adjustments you made before the watch returned to the Timekeeping Mode will be applied.

### To adjust home positions



1. Use Ⓐ as shown under "Setting Modes" (page E-20) to enter the "Home Position Adjustment" mode.
   • The watch will exit the home position adjustment mode automatically if you do not perform any operation for about two or three minutes.
   • First is **4** *Left Dial Hand* home position adjustment.
   • If the **4** *Left Dial Hand* moves to 12 o'clock, it is in the correct home position. If it doesn't, use Ⓓ (+) and Ⓑ (–) to move it to 12 o'clock.
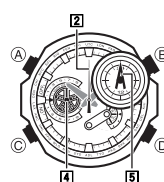
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• Each press of Ⓒ in the home position adjustment mode will cycle through the adjustment settings as shown below.

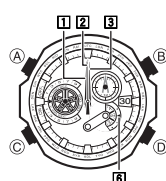4 Left Dial Hand → 5 Right Dial Hands → 2 Second
7 Day ← 1 Hour/ 3 Minute/ 6 24-hour ←

• When adjusting a hand or the date home position, it is recommended that after you move to a proper home position, you press Ⓑ to move the setting back one step. Next, press Ⓓ again to return it to the home position. This helps to ensure better home position adjustment accuracy.

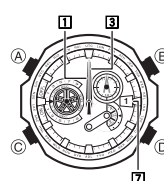2. After confirming that the 4 *Left Dial Hand* is in the correct home position, press Ⓒ. This will switch to 5 *Right Dial Hands* home position adjustment.
• The 5 *Right Dial Hands* are at their proper home positions if they both move to **24**. If the hands are not positioned correctly, use Ⓓ (+) and Ⓑ (–) to move them to **24**.

3. After confirming that the 5 *Right Dial Hands* are in the correct home position, press Ⓒ. This will advance to 2 *Second Hand* home position adjustment.
• The 2 *Second Hand* is in the correct home position if it is pointing at 12 o'clock. If it isn't, use Ⓓ to move it to 12 o'clock.

4. After confirming that the 2 *Second Hand* is at the proper home position, press Ⓒ. This will switch to 1 *Hour Hand* and 3 *Minute Hand* home position adjustment.
• The 1 *Hour Hand* and 3 *Minute Hand* are at their proper home positions if they both move to 12 o'clock. The 6 *24-hour Hand* also will move along with 1 *Hour Hand* movement, and cannot be adjusted individually. If the hands are not positioned correctly, use Ⓓ (+) and Ⓑ (–) to move them to their proper home positions.

5. After confirming that the 1 *Hour Hand* and 3 *Minute Hand* are in their correct home positions, press Ⓒ. This will advance to day home position adjustment.
• The 7 *Day* is in the correct home position if it shows **1**. If it doesn't, use Ⓓ (+) and Ⓑ (–) to change the day to **1**.

6. Press Ⓐ to return to the Timekeeping Mode.
• The 7 *Day* moves to the current day, and then the 1 *Hour Hand* and the 3 *Minute Hand* will move to the current time. Wait until everything stops moving.

## Troubleshooting

### Hand Movement and Position

■ **I lost track of what mode the watch is in.**
Refer to "To select a mode" (page E-19). To return directly to the Timekeeping Mode from any other mode, hold down Ⓒ at least two seconds.

■ **The 2 *Second Hand* is moving at two second intervals.**
■ **All the watch's hands are stopped at 12 o'clock and none of the buttons work.**
Power may be low. Expose the watch to light until the 2 *Second Hand* starts moving normally, at one-second intervals (page E-10).

■ **The hands of the watch suddenly start moving at high speed, even when I do not perform any operation.**
This could be due to any one of the following causes. In all cases, the hand movement does not indicate malfunction, and should stop shortly.
• The watch is recovering from a sleep state (page E-14).

• The watch is returning to the Timekeeping Mode automatically from the Alarm Mode (page E-46).

■ **Hands suddenly stop moving. Button operation also is disabled.**
The watch may be in the power recovery mode (page E-12). Do not perform any operation until the hands return to their normal positions (in about 15 minutes). The hands should return to their correct positions when power recovers. To help power recover, leave the watch in a location where it is exposed to light.

■ **The current time setting is off by hours.**
Your Home City setting may be wrong. Check your Home City setting and correct it, if necessary (page E-24).

■ **The current time setting is off by one hour.**
You may need to change your Home City's **STD** (standard time)/**DST** (daylight saving/summer time) setting. Use the procedure under "To configure summer time and other Home City settings" (page E-24) to change the **STD/DST** setting.

■ **The hands and/or day indications are off.**
This could indicate that the watch has been exposed to magnetism or strong impact, which has caused problems with proper hand and day alignment. Adjust the watch's hand and day home position alignment (page E-48).

### World Time Mode

■ **The World Time indicated by the 5 *Right Dial Hands* in the Timekeeping Mode and World Time Mode is one hour off from the actual time in the selected World Time City.**
The **STD** (standard time)/**DST** (daylight saving/summer time) setting of the selected World Time City may be wrong. Select the correct **STD** (standard time)/**DST** (daylight saving/summer time) setting (page E-42).

■ **The World Time indicated by the 5 *Right Dial Hands* in the Timekeeping Mode and World Time Mode is off.**
Your Home City settings may be wrong. Check your Home City settings and correct them, if necessary (page E-24).

### Charging

■ **The watch does not resume operation after I expose it to light.**
This can happen after the power level drops to Level 3 (page E-10). Continue exposing the watch to light until the 2 *Second Hand* starts moving normally (at one-second intervals).

■ **The 2 *Second Hand* starts to move at one-second intervals, but then suddenly returns to moving at two-second intervals.**
The watch probably is not sufficiently charged yet. Continue keeping it exposed to light.

## Specifications

**Accuracy at normal temperature:** ±15 seconds a month
**Timekeeping:** Hour, minutes (hand moves every 10 seconds), seconds, 24-hour, day
  Calendar system: Full Auto-calendar pre-programmed from the year 2000 to 2099
  Other: Home City code (can be assigned one of 29 city codes and Coordinated Universal Time); Daylight Saving Time (summer time) / Standard Time
**Stopwatch:** Measuring capacity: 23'59.999"
  Measuring unit: 1/1000 second
  Measuring mode: Elapsed time
**World Time:** 29 cities (29 time zones) and Coordinated Universal Time
  Other: Standard Time/Daylight Saving Time (summer time); Home City/World Time City swapping
**Alarm:** Daily alarm
**Other:** Power Saving

**Power Supply:** Solar cell and one rechargeable battery
  Approximate battery operating time: 6 months (no exposure to light after a full charge and 10 seconds alarm beeper operation per day)

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City Code Table

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## City Code Table

| City Code | | City | UTC Offset/ GMT Differential |
|---|---|---|---|
| PAGO PAGO | (PPG) | Pago Pago | −11 |
| HONOLULU | (HNL) | Honolulu | −10 |
| ANCHORAGE | (ANC) | Anchorage | −9 |
| LOS ANGELES | (LAX) | Los Angeles | −8 |
| DENVER | (DEN) | Denver | −7 |
| CHICAGO | (CHI) | Chicago | −6 |
| NEW YORK | (NYC) | New York | −5 |
| SANTIAGO | (SCL) | Santiago | −4 |
| RIO | | Rio De Janeiro | −3 |
| F. DE NORONHA | (FEN) | Fernando de Noronha | −2 |
| PRAIA | (RAI) | Praia | −1 |
| UTC | | | 0 |
| LONDON | (LON) | London | |
| PARIS | (PAR) | Paris | +1 |
| ATHENS | (ATH) | Athens | +2 |

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| City Code | | City | UTC Offset/ GMT Differential |
|---|---|---|---|
| JEDDAH | (JED) | Jeddah | +3 |
| TEHRAN | (THR) | Tehran | +3.5 |
| DUBAI | (DXB) | Dubai | +4 |
| KABUL | (KBL) | Kabul | +4.5 |
| KARACHI | (KHI) | Karachi | +5 |
| DELHI | (DEL) | Delhi | +5.5 |
| DHAKA | (DAC) | Dhaka | +6 |
| YANGON | (RGN) | Yangon | +6.5 |
| BANGKOK | (BKK) | Bangkok | +7 |
| HONG KONG | (HKG) | Hong Kong | +8 |
| TOKYO | (TYO) | Tokyo | +9 |
| ADELAIDE | (ADL) | Adelaide | +9.5 |
| SYDNEY | (SYD) | Sydney | +10 |
| NOUMEA | (NOU) | Noumea | +11 |
| WELLINGTON | (WLG) | Wellington | +12 |

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- Based on data as of July 2010.
- The rules governing global times (UTC offset and GMT differential) and summer time are determined by each individual country.

*L-4*