

# Operation Guide 5240

Congratulations upon your selection of this CASIO watch.

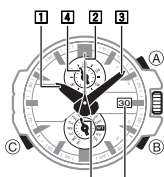
- Note that the product illustrations in this manual are intended for reference only, and so the actual product may appear somewhat different than depicted by an illustration.

This watch does not have a city code that corresponds to the UTC offset of -3.5 hours. Because of this, the radio-controlled atomic timekeeping function will not display the correct time for Newfoundland, Canada.

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.

E-1

## About This Manual



Operations are performed using the watch's crown, and the three buttons indicated by the letters (A), (B) and (C) in this manual.

### Hands and Indicators

- 1 Hour Hand
  - 2 Second Hand
  - 3 Minute Hand
  - 4 Upper Dial Hand: Indicates a time, in 24-hour format, depending on the current mode.
  - 5 Lower Dial Hand: Indicates the current mode.
  - 6 Day Indicator
- This User's Guide uses numbers shown above to identify watch hands and indicator.

E-2

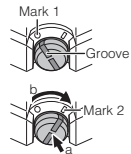
## Using the Crown

This watch has a lock-type crown.

### Important!

- You should normally have the crown locked during normal daily use. Leaving the crown unlocked creates the risk of unintended operations or even damage due to impact.

### To lock the crown



1. Push the crown back in (see "To pull out, rotate, or push the crown in" below).  
• Note that attempting to lock the crown when it is not pushed in can cause unexpected watch operation.
2. Rotate the crown so the groove is aligned with Mark 1.
3. While pushing in on the crown (a), rotate it to the right (b) so the groove aligns with Mark 2.
4. Gently pull on the crown to make sure it is securely locked and does not come out.

E-3

### To unlock the crown

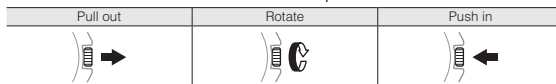
Rotate the crown so the groove aligns with Mark 1.

### To pull out, rotate, or push the crown in

#### Important!

- Before performing any of these operations, first unlock the crown.

The illustrations below show the different crown operations.



When rotating the crown to move the hands of the watch, you can use the operations described below to move the hands at high speed. There are two high-speed hand movement speeds. High-speed 2 is the fastest.

E-4

| High-speed 1  | High-speed 2  | High-speed Cancel                                 |
|---|---|---|
|   |   |   |
| With the crown pulled out, rotate it rapidly away from you three times. | After starting the High-speed 1 operation, rotate the crown rapidly away from you three more times. | Rotate the crown towards you or press any button. |

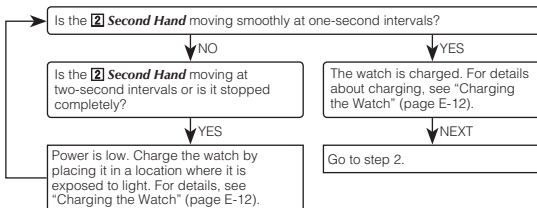
#### Note

- If you do not perform any operation for more than two minutes after pulling out the crown, crown operations will become disabled automatically. If this happens, push the crown back in and then pull it out again to re-enable crown operations.
- You can use high-speed hand movement when configuring time settings in the Timekeeping Mode, Alarm Mode, or Countdown Timer Mode.
- High-speed hand movement is forward only. There is no high-speed backward hand movement.

E-5

## Things to check before using the watch

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



E-6

### 2. Check the Home City.

Use the procedure under "To configure Home City settings" (page E-34) to configure your Home City.

#### Important!

Proper time calibration signal reception depends on correct Home City, time, and day settings in the Timekeeping Mode. Make sure you configure these settings correctly.

### 3. Set the current time.

- To set the time using a time calibration signal  
See "To get ready for a receive operation" (page E-23).
- To set the time manually  
See "Configuring Current Time and Day Settings Manually" (page E-39).

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

- For details about the watch's radio controlled timekeeping feature, see "Radio Controlled Atomic Timekeeping" (page E-18).

E-7

## Contents

- E-2 About This Manual
- E-3 Using the Crown
  - E-3 To lock the crown
  - E-4 To unlock the crown
  - E-4 To pull out, rotate, or push the crown in
- E-6 Things to check before using the watch
- E-12 Charging the Watch
  - E-17 To recover from the sleep state
- E-18 Radio Controlled Atomic Timekeeping
  - E-23 To get ready for a receive operation
  - E-26 To perform manual receive
  - E-27 To check the result of the latest receive operation
  - E-28 To turn auto receive on and off

E-8

### E-30 Mode Reference Guide

- E-31 To determine the watch's current mode
- E-31 To return to the Timekeeping Mode from any other mode
- E-32 To select a mode

### E-33 Timekeeping

#### E-34 Configuring Home City Settings

- E-34 To configure Home City settings
- E-37 To switch between standard time and summer time manually

#### E-39 Configuring Current Time and Day Settings Manually

- E-39 To change the current time setting manually
- E-42 To change the current day setting manually

#### E-46 Thermometer

- E-47 To take a temperature reading
- E-48 To switch a temperature reading unit between Celsius (°C) and Fahrenheit (°F)

E-9

- E-52 **Temperature Reading Precautions**
- E-53 **Checking the Current Time in a Different Time Zone**
  - E-54 To view the time in another time zone
  - E-57 To swap your Home City and World Time City
- E-58 **Using the Stopwatch**
  - E-59 To enter and exit the Stopwatch Mode
  - E-59 To perform an elapsed time operation
  - E-59 To perform flyback timing
- E-61 **Using the Countdown Timer**
  - E-62 To specify the countdown start time
  - E-63 To perform a countdown timer operation
  - E-63 To stop the alarm
- E-64 **Using the Alarm**
  - E-65 To change the alarm time setting
  - E-67 To turn the alarm on or off

- E-67 To stop the alarm
- E-68 **Adjusting Home Positions**
  - E-70 To adjust home positions
- E-72 **Troubleshooting**
- E-82 **Specifications**

E-10

E-11

## Charging the Watch

The face of the watch is a solar panel 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, be sure to 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, makes sure that its face is not blocked from light by the sleeve of your clothing.

- The watch may enter a sleep state (page E-17) if its face is blocked by your sleeve even only partially.

E-12

### 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!

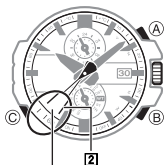
- Keep the watch in an area normally exposed to bright light when storing it for long periods. This helps to ensure that power does not run down.
- Storing the watch for long periods in an area where there is no light or wearing it in such a way that it is blocked from exposure to light can cause power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

### Checking the Current Power Level

Certain functions will be disabled when the power level is low. If the power level is low, leave the watch in a location where its face (solar panel) is exposed to light.

E-13

### Low Power



Moves at two-second intervals.

Low power conditions are indicated by 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.

### Low Battery Alert (Hand Movement and Function Status)

| Level | Hand Movement   | Function Status  |
|-------|---|--|
| 1     | Normal.   | All functions enabled                                  |
| 2     | <b>[2] Second Hand</b> moves at two-second intervals. | Beeper and time calibration signal reception disabled. |
| 3     | <b>[2] Second Hand</b> stopped.                       | All functions disabled                                 |

E-14

- When power drops to Level 3, all settings (including timekeeping) will be cleared. Recharging the battery will reset all settings to their initial factory defaults.
- When the watch is at Level 3, exposing it to light for a while will cause the **[2] Second Hand** to move to the position of second 57. This indicates that charging has started.

### 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 continuous signal reception or other operations 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.

E-15

## Charging Times

| Exposure Level (Brightness)               | Daily Operation *1 | Level Change *2 |           |         |
|---|--------------------|-----------------|-----------|---------|
|   |                    | Level 3         | Level 2   | Level 1 |
| Outdoor sunlight (50,000 lux)             | 8 minutes          | 3 hours         | 28 hours  |         |
| Window sunlight (10,000 lux)              | 30 minutes         | 7 hours         | 107 hours |         |
| Window sunlight on cloudy day (5,000 lux) | 48 minutes         | 10 hours        | 173 hours |         |
| Indoor fluorescent lighting (500 lux)     | 8 hours            | 114 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-84).

E-16

## Power Saving

Power Saving enters a sleep state (second hand sleep or function sleep) whenever the watch is left for a certain period in an area where it is dark.

| Elapsed Time in Dark                 | Operation  |
|--------------------------------------|--|
| 60 to 70 minutes (second hand sleep) | <b>[2] Second Hand</b> only stopped at 12 o'clock, all other functions enabled   |
| 6 or 7 days (function sleep)         | <ul style="list-style-type: none"> <li>• All functions, including analog timekeeping, disabled</li> <li>• Internal timekeeping maintained</li> </ul> |

- 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 there.
- The watch will not enter a sleep state while it is in the Stopwatch Mode or Countdown Timer Mode.

### To recover from the sleep state

Move the watch to a well-lit area or press any button.

E-17

## Radio Controlled Atomic Timekeeping

This watch receives a time calibration signal and updates its time setting accordingly. However, when using the watch outside of areas covered by time calibration signals, you will have to adjust the settings manually as required. See "Configuring Current Time and Day Settings Manually" (page E-39) for more information.

This section explains how the watch updates its time settings when the city code selected as the Home City is in Japan, North America, Europe, or China, and is one that supports time calibration signal reception.

| If your Home City Code setting is this:   | The watch can receive the signal from the transmitter located here: |
|---|---|
| LON (LONDON), PAR (PARIS), ATH (ATHENS)   | Anthorn (England), Mainflingen (Germany)                            |
| HKG (HONG KONG)   | Shanghai City (China)   |
| TYO (TOKYO)   | Fukushima (Japan), Fukuoka/Saga (Japan)                             |
| HNL (HONOLULU), ANC (ANCHORAGE), LAX (LOS ANGELES), DEN (DENVER), CHI (CHICAGO), NYC (NEW YORK) | Fort Collins, Colorado (United States)                              |

### Important!

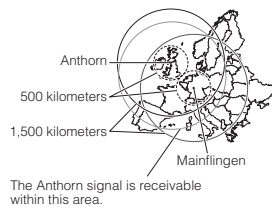
- The areas covered by **HNL (HONOLULU)** and **ANC (ANCHORAGE)** are quite far from the calibration signal transmitters, so certain conditions may cause reception problems.

E-18

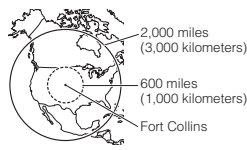
E-19

## Approximate Reception Ranges

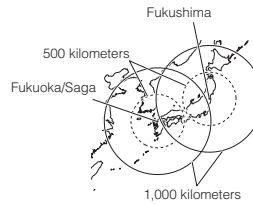
### UK and German Signals



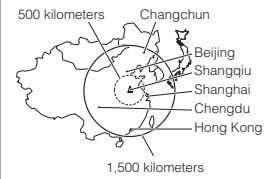
### North American Signal



### Japanese Signals



### Chinese Signal



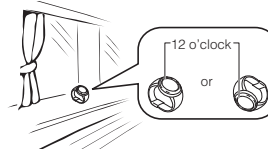
E-20

E-21

- Signal reception may not be possible at the distances noted below during certain times of the year or day. Radio interference may also cause problems with reception.
  - Mainflingen (Germany) or Anhorn (England) transmitters: 500 kilometers (310 miles)
  - Fort Collins (United States) transmitter: 600 miles (1,000 kilometers)
  - Fukushima or Fukuoka/Saga (Japan) transmitters: 500 kilometers (310 miles)
  - Shangqiu (China) transmitter: 500 kilometers (310 miles)
- As of December 2010, China does not use Daylight Saving Time (DST). If China does go to the Daylight Saving Time system in the future, some functions of this watch may no longer operate correctly.
- Using this watch in a country covered by a time calibration signal that is different from the countries it supports may result in incorrect time indication due to local application of daylight saving time (summer time), etc.

### To get ready for a receive operation

- Confirm that the watch is in the Timekeeping Mode. If it isn't, hold down **C** for at least two seconds to enter the Timekeeping Mode.
- Place the watch in a location where signal reception is good.

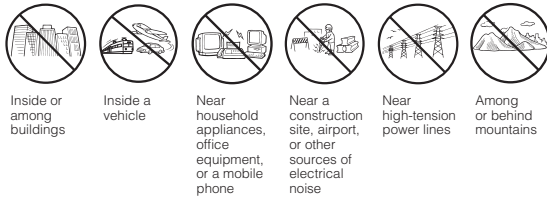


- Position the watch as shown in the nearby illustration, with 12 o'clock pointed towards a window. Make sure there are no metal objects nearby.
- Signal reception normally is better at night.
- The receive operation takes from two to seven minutes, but in some cases it can take as long as 14 minutes. Take care that you do not perform any button operation or move the watch during this time.

E-22

E-23

- Signal reception may be difficult or even impossible under the conditions described below.



### 3. What you should do next depends on whether you are using Auto Receive or Manual Receive.

- Auto Receive: Leave the watch over night in the location you selected in step 2. See "Auto Receive" on page E-25 for details.
- Manual Receive: Perform the operation under "To perform manual receive" on page E-26.

### Auto Receive

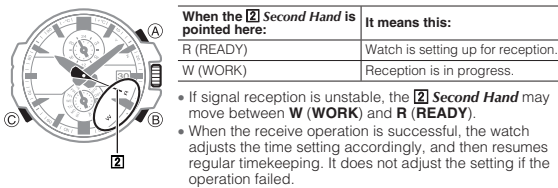
- With Auto Receive, the watch performs the receive operation each day automatically up to six times (up to five times for the Chinese calibration signal) between the hours of midnight and 5 a.m. (according to the Timekeeping Mode time). When any receive operation is successful, none of the other receive operations for that day are performed.
- When a calibration time is reached, the watch will perform the receive operation only if it is in the Timekeeping Mode. The receive operation is not performed if a calibration time is reached while you are configuring settings.

E-24

E-25

### To perform manual receive

- In the Timekeeping Mode (page E-33), keep **B** depressed (for about two seconds) as the **[2] Second Hand** goes through the following sequence.
  - Moves to **Y (YES)** or **N (NO)** to indicate the last signal reception result, then to **R (READY)**.
- The **[2] Second Hand** indicates the operations the watch is currently performing.

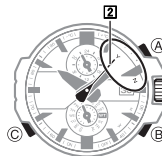


E-26

### Note

- To interrupt a receive operation and return to the Timekeeping Mode, press any button.

### To check the result of the latest receive operation



In the Timekeeping Mode, press **B**. The **[2] Second Hand** will move to **Y (YES)** or **N (NO)** to indicate the last calibration signal receive result.

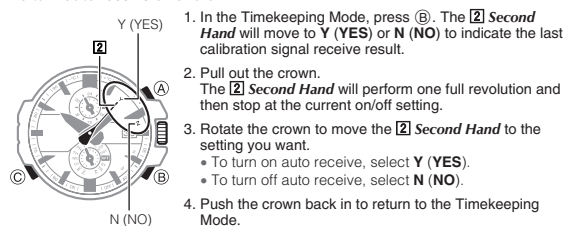
- The **[2] Second Hand** will move to **Y (YES)** if the latest receive operation was successful, or **N (NO)** if it was not. After about 10 seconds, regular timekeeping will resume.
- Press **B** to return to regular timekeeping. The watch will also return to regular timekeeping if you do not perform any operation for about 10 seconds.

### Note

- The **[2] Second Hand** will indicate **N (NO)** if you have adjusted the time or day setting manually since the latest receive operation.

E-27

### To turn auto receive on and off



E-28

### Radio-controlled Atomic Timekeeping Precautions

- Strong electrostatic charge can result in the wrong time setting.
- Even if a receive operation is successful, certain conditions can cause the time setting to be off by up to one second.
- The watch is designed to update its day setting automatically for the period from January 1, 2000 to December 31, 2099. Updating of the day setting by signal reception will no longer be performed starting from January 1, 2100.
- If you are in an area where signal reception is not possible, the watch keeps time with the precision noted in "Specifications" (page E-82).
- The receive operation is disabled under any of the following conditions.
  - While power is at Level 2 or lower (page E-14)
  - While the watch is in the power recovery mode (page E-15)
  - While the watch is in the function sleep state (power saving, page E-17)
  - While the watch is in the World Time Mode (page E-53)
  - While a countdown timer operation is in progress (page E-63)
- A receive operation is cancelled if an alarm sounds while it is being performed.

E-29

## Mode Reference Guide

Your watch has five "modes". The mode you should select depends on what you want to do.

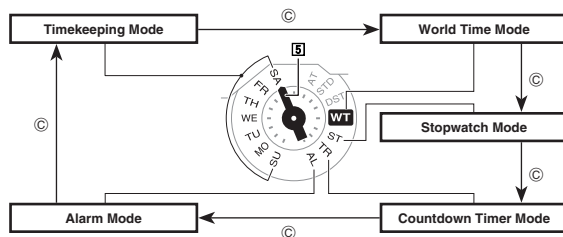
| To do this:   | Enter this mode:     | See:                 |
|---|----------------------|----------------------|
| <ul style="list-style-type: none"> <li>Configure Home City and DST (daylight saving time) settings</li> <li>Perform a time calibration signal receive operation</li> <li>Change the Auto Receive on/off setting</li> <li>Configure time and day settings manually</li> <li>Measure temperature</li> </ul> | Timekeeping Mode     | E-33                 |
| <ul style="list-style-type: none"> <li>View the current time in one of 29 cities around the globe</li> <li>Configure World Time City and summer time settings</li> <li>Swap the Home City and World Time City</li> </ul>  | World Time Mode      | E-53<br>E-54<br>E-57 |
| Use the stopwatch to measure elapsed time   | Stopwatch Mode       | E-58                 |
| Use the countdown timer   | Countdown Timer Mode | E-61                 |
| <ul style="list-style-type: none"> <li>Set an alarm time</li> <li>Turn the alarm ON or OFF</li> </ul>   | Alarm Mode           | E-64<br>E-67         |

E-30

E-31

## To select a mode

Each press of **(C)** will cycle between modes. The currently selected mode is indicated by the **(5) Lower Dial Hand**.

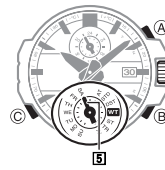


E-32

E-33

## Selecting a Mode

With this watch, everything starts from the Timekeeping Mode.



### To determine the watch's current mode

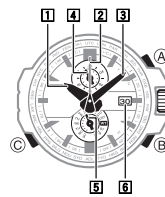
Check what the **(5) Lower Dial Hand** is indicating as shown under "To select a mode" (page E-32).

### To return to the Timekeeping Mode from any other mode

Hold down **(C)** for at least two seconds.

## Timekeeping

To enter the Timekeeping Mode, hold down **(C)** at least two seconds.

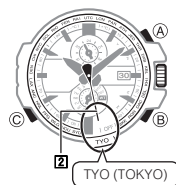


### Hands and Indicators

- (1)** Hour Hand
- (2)** Second Hand
- (3)** Minute Hand
- (4)** Upper Dial Hand: Indicates the current hour in the Home City time in 24-hour format.
- (5)** Lower Dial Hand: Points to the day of the week.
- (6)** Day Indicator

## Configuring Home City Settings

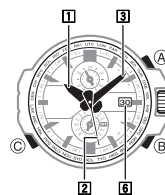
The Home City is location where you will normally use the watch. You can choose from a selection of city codes that represent 29 cities around the globe.



### To configure Home City settings

- Note**
- This watch does not have a city code that corresponds to Newfoundland.
- Pull out the crown.
    - This will cause the **(2) Second Hand** to move to the city code of the currently selected Home City.
    - This indicates the city code setting mode.

- If you do not perform any operation with the crown for about two minutes after pulling it out, crown operations will become disabled and the hand will not move if you rotate the crown. If this happens, push the crown back in and then pull it out again.
- For details about city codes, see the "City Code Table" at the back of this manual.



- Rotate the crown to move the **(2) Second Hand** to the city code you want to select as your Home City.
  - Each time you select a city code, the **(1) Hour Hand**, **(3) Minute Hand** and **(6) Day Indicator** move to the current time and day for that city code.
- Push the crown back in to return to the Timekeeping Mode.

E-34

E-35

## STD/DST Switching

You can select summer time or standard time independently for each city. The initial default setting for all cities is **AT (AUTO)**. Normally you should use the **AT (AUTO)** setting because it automatically switches between summer time and standard time. You should change the setting to **STD (standard time)** or **DST (summer time)** in the following cases.

- When using a time of a location that is not included in the watch's list of 29 cities
- When the preset AUTO standard time/summer time timing is incorrect for some reason

### 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.

- Note that you cannot switch between **STD (standard time)** and **DST (daylight saving time)** while **UTC** is selected as your Home City.
- \* Coordinated Universal Time, the world-wide scientific standard of timekeeping. The reference point for UTC is Greenwich, England.

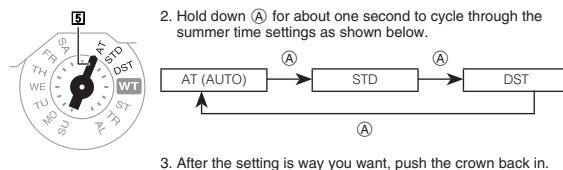
E-36

## To switch between standard time and summer time manually

- Perform steps 1 and 2 under "To configure Home City settings" (page E-34).
  - Selecting a city code will cause the **(1) Hour Hand**, **(3) Minute Hand**, and **(4) Upper Dial Hand** to move automatically to the current time for the selected city code.
  - If you will use the watch in a city that is not included in the city code list, select a city code that is in the same time zone as your city.
  - Displaying the Home City Settings screen will cause the **(5) Lower Dial Hand** to move to **AT (auto switching)**, **STD (standard time)**, or **DST (daylight saving time)**.

|           |  |
|-----------|--|
| AT (AUTO) | The watch automatically switches between standard time and daylight saving time in accordance with its calendar. |
| STD       | The watch always shows standard time.  |
| DST       | The watch always shows daylight saving time.   |

E-37



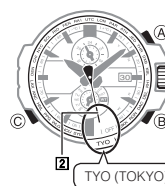
- Hold down **(A)** for about one second to cycle through the summer time settings as shown below.

- After the setting is way you want, push the crown back in.

E-38

## Configuring Current Time and Day Settings Manually

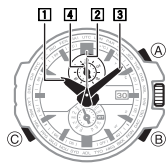
You can configure current time and day settings manually when the watch is unable to receive a time calibration signal.



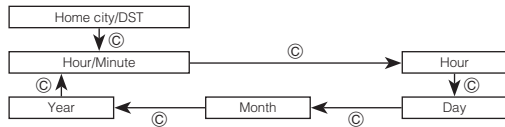
### To change the current time setting manually

- Pull out the crown.
  - This will cause the **(2) Second Hand** to move to the city code of the currently selected Home City.
  - If you do not perform any operation with the crown for about two minutes after pulling it out, crown operations will become disabled and the hand will not move if you rotate the crown. If this happens, push the crown back in and then pull it out again.

E-39



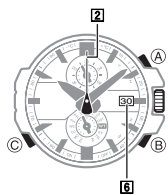
- Change the Home City settings, if you want.
  - For details about these settings, see steps 2 and 3 under "To configure Home City settings" (page E-34).
- Hold down **C** for about one second until the watch beeps and the **2 Second Hand** moves to 12 o'clock.
  - This indicates the manual time setting mode.
  - In the following steps, each press of **C** cycles between settings as shown below.



E-40

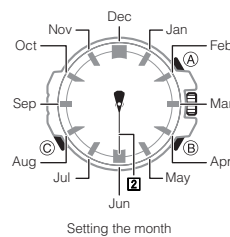
E-41

### To change the current day setting manually



- Pull out the crown.
  - This will cause the **2 Second Hand** to move to the city code of the currently selected Home City.
- Hold down **C** for about one second until the watch beeps and the **2 Second Hand** moves to 12 o'clock.
  - This indicates the manual time setting mode.
- Press **C** twice. This will enter the day setting mode.
  - The **6 Day Indicator** will move slightly to indicate the setting mode.
- Rotate the crown to adjust the day setting.

- Rotate the crown to adjust the time (hour and minute) setting.
  - See "Using the Crown" (page E-3) for information about high-speed hand movement.
  - The **4 Upper Dial Hand** is synchronized with the **1 Hour Hand**.
  - When adjusting the setting, check to make sure that the **4 Upper Dial Hand** correctly indicates an a.m. time or p.m. time.
  - If you want to change the day setting at this time, press **C** and perform the procedure starting from step 3 under "To change the current day setting manually" (page E-42).
- After the settings are the way you want, push the crown back in to return to the Timekeeping Mode.
  - This causes timekeeping to resume with the **2 Second Hand** starting from 12 o'clock.

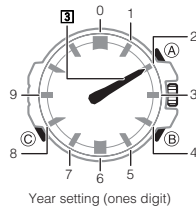


- After the **6 Day Indicator** stops moving, press **C**. This will enter the month setting mode.
  - The **2 Second Hand** will move to the currently selected month.
- Rotate the crown to adjust the month setting.
- Press **C**. This will enter the year setting mode.
  - The **1 Hour Hand** will move to the number that represents the tens digit of the year and the **3 Minute Hand** will move to the number that represents the ones digit. The **2 Second Hand** will move to 12 o'clock and stop there.

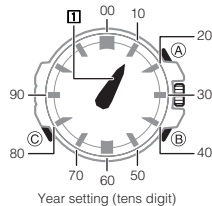
E-42

E-43

- Rotate the crown to adjust the year setting.
  - If you want to change the time setting at this time, press **C** and then perform the procedure starting from step 4 under "To change the current time setting manually" (page E-39).



Year setting (ones digit)



Year setting (tens digit)

- After the settings are the way you want, push the crown back in to return to the Timekeeping Mode.
  - This causes timekeeping to resume with the **2 Second Hand** starting from 12 o'clock.

### Note

- The watch's built-in full automatic calendar makes allowances for different month lengths and leap years. Once you set the day, 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.

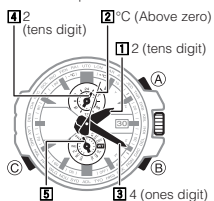
E-44

E-45

## Thermometer

This watch uses a temperature sensor to take temperature readings.  
 • You can select either Celsius (°C) or Fahrenheit (°F) as the temperature measurement unit (page E-48).

Example: 24°C



E-46

### Hands and Indicators

#### Celsius (°C)

- Hour Hand and **4 Upper Dial Hand**: Indicate the tens digit.
- 2 Second Hand**: Indicates temperature is above zero (+°C) or below zero (-°C).
- 3 Minute Hand**: Indicates the ones digit.
- 5 Lower Dial Hand**: Points to the day of the week.

### Fahrenheit (°F)

- Hour Hand and **4 Upper Dial Hand**: Indicate the hundreds digit.
- 2 Second Hand**: Indicates the ones digit.
- 3 Minute Hand**: Indicates the tens digit.
- 5 Lower Dial Hand**: Points to the day of the week.

### To take a temperature reading

- Enter the Timekeeping Mode (page E-32).
- Press **A**.
  - First the **2 Second Hand** and then the **1 Hour Hand**, **3 Minute Hand**, and **4 Upper Dial Hand** move to indicate the temperature reading.
  - Pressing **A** again while the hands are indicating a temperature reading will take another reading.
  - To cancel an ongoing temperature measurement operation, press **B** or **C**.
  - About 10 seconds after the hands move to indicate a temperature reading, they will go back to regular timekeeping automatically.

E-47

Measurement unit: 1°C (or 2°F)

Measurement range\*: -10 to 60°C (or 14 to 140°F)

\* If a reading produces a value that is outside the measurement range, the **1 Hour Hand**, **2 Second Hand**, **3 Minute Hand**, and **4 Upper Dial Hand** all point to 11. If you have performed correction of the temperature reading (page E-49), canceling the correction may cause a reading to be outside the measurement range.

### To switch a temperature reading unit between Celsius (°C) and Fahrenheit (°F)

- While the hands are indicating a temperature reading, pull out the crown.
- Hold down **A** for about two seconds.
  - This will toggle the temperature reading unit between Celsius (°C) and Fahrenheit (°F), causing the **1 Hour Hand**, **2 Second Hand**, **3 Minute Hand**, and **4 Upper Dial Hand** to move accordingly.
- Push the crown back in.
  - After about ten seconds, the watch will resume regular timekeeping.

E-48

### Important!

- When **TYO (TOKYO)** is selected as the Home City, the temperature unit is set automatically to Celsius (°C). These settings cannot be changed.
- If you do not perform any operation with the crown for about two minutes after pulling it out, crown operations will become disabled and the watch hands will no longer move when you rotate the crown. If this happens, push the crown back in and then pull it out again.

### Correcting the Temperature Reading

The temperature sensor of this watch is adjusted at the factory and so further adjustment is not required by you. However, if you notice that the readings produced by the watch are different from readings produced by another instrument, you can use the procedure in this section to make corrections. You also can use this procedure to clear a correction.

E-49

**Important!**

- The watch will not be able to produce correct temperature readings if you make a mistake during the correction procedure. Check to make sure that the value you use for correction produces correct temperature readings.
  - Before performing the following procedure, remove the watch from your wrist and leave it for about 20 or 30 minutes to allow the case temperature to become the same as the air temperature.
1. While the hands are indicating a temperature reading, pull out the crown.
  2. Rotate the crown to adjust the temperature setting.
    - Holding down (A) and (B) at the same time will return the temperature reading to the factory default setting.
    - Each rotation of the crown moves the hands by 1°C (2°F).
    - You can adjust the temperature reading within the range of -10 to 60°C (or 14 to 140°F).

E-50

**Important!**

- To cancel a temperature reading correction setting, hold down (A) and (B) at the same time. The watch will beep.
3. Push the crown back in.
    - After about ten seconds, regular timekeeping will resume.
- Important!**
- If you do not perform any operation with the crown for about two minutes after pulling it out, crown operations will become disabled and the watch hands will no longer move when you rotate the crown. If this happens, push the crown back in and then pull it out again.

E-51

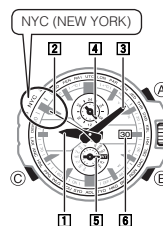
## Temperature Reading Precautions

Body temperature, direct sunlight, and humidity all have an effect on temperature readings. To help ensure more accurate temperature readings, remove the watch from your wrist, wipe it dry of any moisture, and place it in a well-ventilated location not exposed to direct sunlight for about 20 to 30 minutes before taking temperature readings.

E-52

## Checking the Current Time in a Different Time Zone

You can use World Time to view the current time in one of 29 time zones around the globe. The currently selected city is called the "World Time City".



**Hands and Indicators**

- 1 Hour Hand and 4 Upper Dial Hand:** Indicate the hour of the current time in the World Time City.
  - 2 Second Hand:** Indicates the current World Time City for about three seconds after the World Time mode is entered.
  - 3 Minute Hand:** Indicates the current minute in the World Time City.
  - 5 Lower Dial Hand:** Points to **WT**.
  - 6 Day Indicator**
- Pressing (A) causes the **2 Second Hand** to move to the current World Time City for about three seconds.

E-53

**Important!**

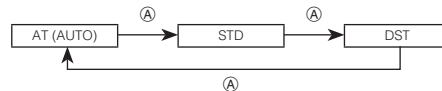
- Time calibration signal reception is disabled while the watch is in the World Time Mode.

**To view the time in another time zone**

1. In the Timekeeping Mode, press (C) once to enter the World Time Mode.
  - The **5 Lower Dial Hand** will move to **WT**.
  - To select the UTC zone as your World Time, simply hold down (B) for about three seconds. No other operation is required.
2. Pull out the crown.
  - The **2 Second Hand** points to the currently selected World Time city code.
  - The **5 Lower Dial Hand** will indicate **AT (AUTO)**, **STD** (standard time) or **DST** (daylight saving time), which indicates the current daylight saving time setting.
  - If you do not perform any operation with the crown for about two minutes after pulling it out, crown operations will become disabled and the watch hands will no longer move when you rotate the crown. If this happens, push the crown back in and then pull it out again.

E-54

3. Rotate the crown to move the **2 Second Hand** to the city code you want to select as the World Time City.
  - Each time you select a city code, the **1 Hour Hand**, **3 Minute Hand**, **4 Upper Dial Hand**, and **6 Day Indicator** move to the current time and day for that city code. For details about 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 Home City settings" (page E-34) to correct the Home City settings.
4. Hold down (A) for about one second to cycle through the summer time settings as shown below.

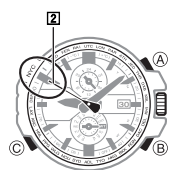


E-55

5. After selecting the city you want, push the crown back in to return to the World Time Mode.

**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<br>10:08 p.m.<br>(Standard time)          | New York<br>9:08 a.m.<br>(Daylight saving time) |
| After swapping  | New York<br>9:08 a.m.<br>(Daylight saving time) | Tokyo<br>10:08 p.m.<br>(Standard time)          |

E-56

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

- In the World Time Mode, hold down (A) for about three seconds until the watch beeps.
- This indicates that your Home City and World Time City have been swapped.
  - 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).

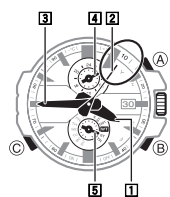
**Note**

- If your current World Time City supports time calibration signal reception, making it your Home City enables calibration signal reception for that city.

E-57

## Using the Stopwatch

You can use the stopwatch to measure elapsed times. A flyback feature (page E-59) lets you reset the stopwatch to zero without stopping time measurement.



**Hands and Indicators**

- 1 Hour Hand:** Indicates the stopwatch minute count (1 revolution = 60 minutes).
- 2 Second Hand:** Indicates the 0.05-second count during stopwatch operation.
- 3 Minute Hand:** Indicates the stopwatch seconds count.
- 4 Upper Dial Hand:** Indicates the stopwatch minute count (1 revolution = 120 minutes).
- 5 Lower Dial Hand:** Points to **ST**.

E-58

**To enter and exit the Stopwatch Mode**

- In the Timekeeping Mode, press (C) twice to enter the Stopwatch Mode.
- The **5 Lower Dial Hand** will move to **ST**.

**To perform an elapsed time operation**



**To perform flyback timing**

Pressing (B) while an elapsed time operation is in progress performs zero reset and immediately resumes timing from there. You can do this as many times as you want.



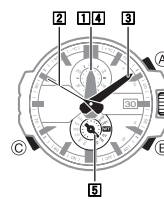
- An ongoing elapsed time measurement operation is not affected by pulling out the crown.

E-59

- The **[2] Second Hand**, which indicates the 1/20 (0.05)-second count during stopwatch operation, moves only 30 seconds after an elapsed time measurement operation is started or restarted. After that, the **[2] Second Hand** stops.

## Using the Countdown Timer

The countdown timer can be configured within a range of one minute to 60 minutes. An alarm sounds for about 10 seconds when the timer reaches zero.



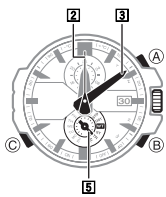
### Hands and Indicators

- [1] Hour Hand and [4] Upper Dial Hand:** Point to 12 o'clock.
- [2] Second Hand:** Indicates countdown or elapsed seconds.
- [3] Minute Hand:** Indicates countdown or elapsed minutes.
- [5] Lower Dial Hand:** Points to **TR**.
- All hands move counterclockwise during a countdown.

E-60

E-61

### To specify the countdown start time



- In the Timekeeping Mode, press **[C]** three times to enter the Countdown Timer Mode.
  - The **[5] Lower Dial Hand** will move to **TR**.
- In the Countdown Timer Mode, pull out the crown. This enters the countdown start time setting mode.
  - If you do not perform any operation with the crown for about two minutes after pulling it out, crown operations will become disabled and the hand will not move if you rotate the crown. If this happens, push the crown back in and then pull it out again.
- Rotate the crown to set the countdown start time.
  - The maximum countdown start time setting is 60 minutes. To set a countdown start time of 60 minutes, move the **[3] Minute Hand** to 12 o'clock.
  - See "Using the Crown" (page E-3) for information about high-speed hand movement.

E-62

### To perform a countdown timer operation



- A time-up alert sounds for 10 seconds when the countdown reaches 0, and then the timer displays the start time.
- The alarm will not sound if battery power is low.
- Pulling out the crown while a countdown is in progress will stop the countdown and enter the countdown start time setting mode.

### Important!

- Time calibration signal reception is disabled while the watch is in the Countdown Timer Mode.

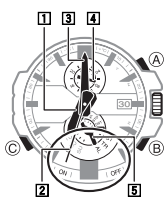
### To stop the alarm

Press any button.

E-63

## 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.



### Hands and Indicators

- [1] Hour Hand:** Indicates the currently set alarm time hour.
- [2] Second Hand:** Indicates the current alarm ON/OFF setting.
- [3] Minute Hand:** Indicates the currently set alarm time minute.
- [4] Upper Dial Hand:** Indicates the hour setting of the current alarm time in 24-hour format.
- [5] Lower Dial Hand:** Points to **AL**.

E-64

E-65

3. Rotate the crown to set the alarm time.
  - The **[1] Hour Hand** will also move.
  - See "Using the Crown" (page E-3) for information about high-speed hand movement.
4. Press **[C]** to switch to the hour setting mode.
  - The **[1] Hour Hand** will move slightly left and right to indicate the **[1] Hour Hand** setting mode.
  - Check the 24-hour time indicated by the **[4] Upper Dial Hand** to see if the current setting is a.m. or p.m.
5. Rotate the crown to adjust the hour setting only.
  - See "Using the Crown" (page E-3) for information about high-speed hand movement.

6. After the setting is the way you want, push the crown back in to exit the alarm setting mode.
  - 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 **[A]** to toggle the alarm between on and off. The **[2] Second Hand** will indicate the current ON/OFF setting.

### Note

- The alarm will not sound if battery power is low.
- The alarm will not sound if the watch is in the Power Saving sleep state.

### To stop the alarm

Press any button.

E-66

E-67

## Adjusting Home Positions

Strong magnetism or impact can cause the hands and/or day indicator setting to be off, even if the watch is able to perform the time calibration signal receive operation.

### Auto Home Position Adjustment

- Auto correction of hand home positions corrects the hand position automatically.
- Auto correction is performed in the Timekeeping Mode only.
- Auto correction corrects the positions of all hands. For the day Indicator, you must perform the manual adjustment procedure under "To adjust home positions" (page E-70).
- If the **[4] Upper Dial Hand** is 12 hours off of the current correct time, correct the setting using the procedure under "To adjust home positions" (page E-70).
- Auto correction of the **[5] Lower Dial Hand** is performed once a day in the middle of the night, while the watch is in the sleep state (page E-17).

E-68

### Manual Home Position Adjustment

The procedure in this section if auto home position adjustment is not possible for some reason.

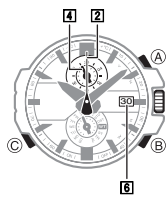
- Hand home position adjustment is not required if the time and day settings are correct.

### Note

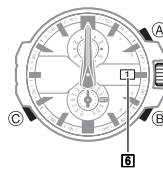
- Any time after you enter the home position adjustment mode in step 2 of the following procedure, you can return to the Timekeeping Mode by pushing the crown back in. In this case, any adjustments you made before the watch returned to the Timekeeping Mode will be applied.
- If you do not perform any operation with the crown for about two minutes after pulling it out, crown operations will become disabled and hands will not move if you rotate the crown. If this happens, push the crown back in and then pull it out again.

E-69

### To adjust home positions



1. Pull out the crown.
2. Hold down (B) for at least five seconds until the watch beeps and the (2) Second Hand moves to 12 o'clock.
  - Automatic home position adjustment of all of the hands (but not the (6) Day Indicator) will start.
  - If all hands are at 12 o'clock (the proper home hand position), advance directly to step 3.
  - If the (4) Upper Dial Hand is not pointing at 24, which is its home position, hold down (A) for about two seconds to move it there.



3. Press (C).
  - This enters the (6) Day Indicator home position adjustment mode.
4. Check the (6) Day Indicator to confirm that it is 1, which is its home position.
  - If the 1 is not in the center of the (6) Day Indicator, rotate the crown to center it.
  - Rotating the crown three full consecutive turns clockwise will cause the (6) Day Indicator to start changing in a forward direction (increment).
  - To stop (6) Day Indicator movement, press any button.
5. Push the crown back in to return to the Timekeeping Mode.
  - This will cause the hands to return to their normal positions and resume regular timekeeping. Wait until everything stops moving before performing any other operation.

E-70

E-71

## Troubleshooting

### Hand Movement and Position

#### ■ I lost track of what mode the watch is in.

Refer to "Mode Reference Guide" (page E-30). To return directly to the Timekeeping Mode, hold down (C) 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 (2) Second Hand stopped at 57, 58, 59, or 00.

Power may be low. Expose the watch to light until the (2) Second Hand starts moving normally, at one-second intervals (page E-14).

#### ■ 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-17).

E-72

E-73

- The period when summer time is applied in the location where you are using the watch may be different from the period set for your currently selected Home City. Use the procedure under "To switch between standard time and summer time manually" (page E-37) to switch from **AT (AUTO)** to **STD** (for standard time) or **DST** (for summer time).

#### ■ The time and date settings 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 indicator alignment. Adjust the watch's hand and day indicator home position alignment (page E-68).

E-74

### Sensor

#### ■ Temperature measurement error occurs.



This indicates that there is a problem with the sensor or the watch's internal circuitry, making sensor measurement and value correction impossible.

- If the error message appears during a measurement, restart the measurement. If the error message appears when you restart the measurement, it probably means that there is a problem with the sensor or internal circuitry.

### 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-14). 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.

### Time Calibration Signal

The information in this section applies only when **LONDON (LON)**, **PARIS (PAR)**, **ATHENS (ATH)**, **HONOLULU (HNL)**, **ANCHORAGE (ANC)**, **LOS ANGELES (LAX)**, **DENVER (DEN)**, **CHICAGO (CHI)**, **NEW YORK (NYC)**, **HONG KONG (HKG)**, or **TOKYO (TYO)** is selected as the Home City. You need to adjust the current time manually when any other city is selected as the Home City.

E-76

E-77

#### ■ The current time setting changes after I set it manually.

You may have the watch configured for Auto Receive of the time calibration signal (page E-25), which will cause the time to be adjusted automatically according to your currently selected Home City. If this results in the wrong time setting, check your Home City setting and correct it, if necessary (page E-34).

#### ■ The current time setting is off by one hour.

| Possible Cause   | Remedy  | Page |
|--|---|------|
| The period when summer time is applied in the location where you are using the watch may be different from the period set for your currently selected Home City. | Use the procedure under "To switch between standard time and summer time manually" to switch from <b>AT (AUTO)</b> to <b>STD</b> (for standard time) or <b>DST</b> (for summer time). | E-37 |

E-78

#### ■ The (2) Second Hand indicates N (NO) when I check the result of the latest receive operation.

| Possible Cause   | Remedy  | Page |
|--|---|------|
| <ul style="list-style-type: none"> <li>• You are wearing or moving the watch, or performing a button operation during time calibration signal receive operation.</li> <li>• The watch is in an area with poor reception conditions.</li> </ul> | Keep the watch in an area where reception conditions are good while time calibration signal receive operation is being performed.   | E-23 |
| You are in an area where signal reception is not possible for some reason.   | See "Approximate Reception Ranges".   | E-20 |
| The alarm time was reached during time calibration signal reception.   | The alarm sounded during time calibration signal reception, causing reception to be canceled.   | —    |
| The calibration signal is not being transmitted for some reason.   | <ul style="list-style-type: none"> <li>• Check the website of the organization that maintains the time calibration signal in your area for information about its down times.</li> <li>• Try again later.</li> </ul> | —    |

E-78

E-79

#### ■ Auto Receive is not performed or I cannot perform Manual Receive.

| Possible Cause                                  | Remedy   | Page         |
|---|--|--------------|
| The watch is not in the Timekeeping Mode.       | Hold down (C) at least two seconds to enter the Timekeeping Mode.                              | E-25<br>E-31 |
| Your Home City setting is wrong.                | Check your Home City setting and correct it, if necessary.                                     | E-18<br>E-34 |
| Auto time calibration signal reception is OFF.  | Check the auto time calibration signal reception setting.                                      | E-27         |
| A countdown timer operation is in progress.     | In the Countdown Timer Mode, stop the timer operation and then return to the Timekeeping Mode. | E-63         |
| There is not enough power for signal reception. | Expose the watch to light to charge it.  | E-12         |



■ Signal reception is being performed successfully, but the time and/or day is wrong.

| Possible Cause   | Remedy   | Page         |
|--|--|--------------|
| Your Home City setting is wrong.   | Check your Home City setting and correct it, if necessary. | E-27<br>E-34 |
| The watch may have been exposed to magnetism or strong impact, which has caused problems with proper hand and day indicator alignment. | Adjust the watch's hand and day indicator home positions.  | E-68         |

E-80

### World Time

■ The indicated World Time is wrong.

There is a problem with your Home City settings. Check your Home City settings. See "To configure Home City settings" (page E-34).

■ The indicated World Time is one hour off.

The daylight saving time (summer time) setting for the World Time city is wrong. See "To view the time in another time zone" (page E-54).

### Alarm

■ The alarm does not sound.

- Power may be low. Expose the watch to light until the **2 Second Hand** starts moving normally, at one-second intervals (page E-14).
- The time setting is wrong in terms of a.m. and p.m.
- The crown may be pulled out. Push the crown back in.

E-81

## Specifications

**Accuracy at normal temperature:** ±15 seconds a month (with no signal calibration)

**Timekeeping:** Hour, minutes (hand moves every 10 seconds), seconds, 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) auto switching / Standard time

**Time Calibration Signal Reception:** Auto receive up to six times a day (5 times a day for the Chinese calibration signal; Remaining auto receives cancelled as soon as one is successful); Manual receive

Receivable Time Calibration Signals:

Mainflingen, Germany (Call Sign: DCF77, Frequency: 77.5 kHz);  
 Anhorn, England (Call Sign: MSF, Frequency: 60.0 kHz); Fukushima, Japan (Call Sign: JJY, Frequency: 40.0 kHz); Fukuoka/Saga, Japan (Call Sign: JJY, Frequency: 60.0 kHz); Fort Collins, Colorado, the United States (Call Sign: WWVB, Frequency: 60.0 kHz); Shangqiu City, Henan Province, China (Call Sign: BPC, Frequency: 68.5 kHz)

E-82

### Thermometer:

Measurement and display range: -10 to 60°C (or 14 to 140°F)  
 Display unit: 1°C (or 2°F)  
 Other: Calibration; Manual measurement (button operation)

### Temperature Sensor Precision:

±2°C (±4°F) in range of -10 to 60°C (or 14 to 140°F)

### World Time:

29 cities (29 time zones) and Coordinated Universal Time

Other: Daylight Saving Time (summer time) / Standard Time

### Stopwatch:

Measuring capacity: 1:59:59.95"  
 Measuring unit: 1/20 (0.05) seconds  
 Measuring mode: Elapsed time  
 Flyback timing

### Countdown Timer:

Measuring unit: 1 second  
 Input range: 1 to 60 minutes (1-minute increments)

### Alarm:

Daily alarm

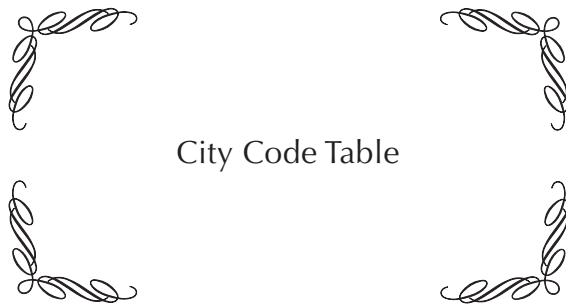
Other: Power Saving; Auto Correction of Hand Home Positions

E-83

### Power Supply:

Solar panel and one rechargeable battery  
 Approximate battery operating time: 6 months (no exposure to light after a full charge; 10 seconds beeper; one temperature measurement; one calibration signal receive per day)

E-84



L-1

## City Code Table

| City Code         | City           | UTC Offset/<br>GMT Differential | Summer Time Period                   |   |
|-------------------|----------------|---------------------------------|--------------------------------------|---|
|                   |                |                                 | Summer Time Start                    | Summer Time End   |
| PAGO PAGO (PPG)   | Pago Pago      | -11                             | None                                 | None  |
| HONOLULU (HNL)    | Honolulu       | -10                             |                                      |   |
| ANCHORAGE (ANC)   | Anchorage      | -9                              | 2:00 a.m., second Sunday in March    | 2:00 a.m., first Sunday in November                                       |
| LOS ANGELES (LAX) | Los Angeles    | -8                              |                                      |   |
| DENVER (DEN)      | Denver         | -7                              |                                      |   |
| CHICAGO (CHI)     | Chicago        | -6                              |                                      |   |
| NEW YORK (NYC)    | New York       | -5                              |                                      |   |
| SANTIAGO (SCL)    | Santiago       | -4                              | Midnight, second Saturday in October | Midnight, second Saturday in March  |
| RIO               | Rio De Janeiro | -3                              | Midnight, third Sunday in October    | Midnight, third Sunday in February or Midnight, fourth Sunday in February |

L-2

| City Code           | City                | UTC Offset/<br>GMT Differential | Summer Time Period                       |  |
|---------------------|---------------------|---------------------------------|--|--|
|                     |                     |                                 | Summer Time Start                        | Summer Time End                                  |
| F. DE NORONHA (FEN) | Fernando de Noronha | -2                              | None                                     | None   |
| PRAIA (RAI)         | Praia               | -1                              |  |  |
| UTC                 |                     | 0                               | 1:00 a.m., last Sunday in March          | 2:00 a.m., last Sunday in October                |
| LONDON (LON)        | London              | 0                               |  |  |
| PARIS (PAR)         | Paris               | +1                              | 2:00 a.m., last Sunday in March          | 3:00 a.m., last Sunday in October                |
| ATHENS (ATH)        | Athens              | +2                              | 3:00 a.m., last Sunday in March          | 4:00 a.m., last Sunday in October                |
| JEDDAH (JED)        | Jeddah              | +3                              | None                                     | None   |
| TEHRAN (THR)        | Tehran              | +3.5                            | Midnight, March 22 or Midnight, March 21 | Midnight, September 22 or Midnight, September 21 |

L-3

| City Code        | City       | UTC Offset/<br>GMT Differential | Summer Time Period                  |                                  |
|------------------|------------|---------------------------------|-------------------------------------|----------------------------------|
|                  |            |                                 | Summer Time Start                   | Summer Time End                  |
| DUBAI (DXB)      | Dubai      | +4                              | None                                | None                             |
| 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                             | None                                | None                             |
| NOUMEA (NOU)     | Nooumea    | +11                             | None                                | None                             |
| WELLINGTON (WLG) | Wellington | +12                             | 2:00 a.m., last Sunday in September | 3:00 a.m., first Sunday in April |

L-4

- Based on data as of December 2010.
- The rules governing global times (UTC offset and GMT differential) and summer time are determined by each individual country.
- The summer time periods in this table are applicable to specific cities. For cities not included in the list, select the list city that is in the same time zone as the desired city and perform STD/DST settings manually.

L-5