Congratulations upon your selection of this CASIO watch.

CASIO

ENGLISH

F-9

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 Things to check before using the watch Button operations are indicated using the letters A through D shown in the illustration. 123 1. Hold down O for about two seconds to enter the Timekeeping Mode, and then observe the movement of the \fbox{O} Second Hand. Hand Functions $\overline{\mathbb{P}}$ Hour Hand I Hour Hand Second Hand Minute Hand Left Dial Hand: Indicates the current mode. Lowr Dial Hand: Indicate a time, in 24-hour format, Right Dial Hands: Indicate a time, in 24-hour format, Is the 2 Second Hand moving smoothly in one-second intervals? ¥NO ¥YES Is the 2 Second Hand moving at two-second intervals or is it stopped completely? The watch is charged sufficiently. For details about charging, see "Charging the Watch" (page E-10). ¥YES depending on the current mode **V**NEXT 4 5 6 7 7 Day 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-10). Go to step 2 This User's Guide uses numbers shown above to identify watch hands and indicators E-3 The watch is now ready for use. 2. Check the Home City and the daylight saving time (DST) setting. . For details about the watch's radio controlled timekeeping feature, see "Radio Use the procedure under "To configure Home City settings" (page E-34) to configure your Home City and daylight saving time settings. Controlled Atomic Timekeeping" (page E-18). Important! Proper time calibration signal reception and World Time settings depend on correct Home City, time, and date 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 Io 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 Date Settings Manually" (page E-38). E-5 E-33 Timekeeping Contents E-34 Configuring Home City Settings F-2 About This Manual E-34 To configure Home City settings E-3 Things to check before using the watch To toggie the Home City time between standard time and daylight saving time E-36 E-10 Charging the Watch E-38 Configuring Current Time and Date Settings Manually E-17 To recover from the sleep state E-38 To change the current time setting manually E-18 Radio Controlled Atomic Timekeeping E-41 To change the current date setting manually E-23 To get ready for a receive operation E-44 Using the Stopwatch F-26 To perform manual receive E-45 To perform elapsed time measurement To check the result of the latest receive operation E-28 E-45 To perform an elapsed time operation E-30 Mode Reference Guide E-45 To pause at a split time To determine the watch's current mode E-31 E-31 To return to the Timekeeping Mode from any other mode E-32 To select a mode E-7 E-47 Using the Countdown Timer E-63 Troubleshooting E-48 To specify the countdown start time E-72 Specifications E-49 To perform a countdown timer operation To stop the alarm E-50 E-51 Checking the Current Time in a Different Time Zone E-52 E-53 To view the time in another time zone To specify standard time or daylight saving time (DST) for a city E-55 To swap your Home City and World Time City E-57 Using the Alarm To change the alarm time setting E-58 E-58 To turn the alarm on or off E-58 To stop the alarm

- E-59 Adjusting Home Positions Manually E-59 To adjust the home positions manually

E-2

E-4

E-6

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, be sure to leave it in a location

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-16) if its face is blocked by your

sleeve even only partially

E-10

E-12

Power Levels



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 in one-second

intervals, power is at Level 1. If the Q 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.

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!

- 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 whenever possible.

F-11

Level	Hand Movement	Function Status
1	Normal.	All functions enabled.
2	 Second Hand moving at two-second intervals. Day changes to 1 (home position). 	Beeper, time calibration signal reception, and countdown timer operation 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.

E-13

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

	Daily	Level Change *2		
Exposure Level (Brightness)	Operation	Level 3	Level 2	Level 1
	1 1		\rightarrow	\rightarrow
Outdoor sunlight (50,000 lux)	8 minutes	2 h	ours	23 hours
Window sunlight (10,000 lux)	30 minutes	6 h	ours	85 hours
Window sunlight on cloudy day (5,000 lux)	48 minutes	8 h	ours	138 hours
Indoor fluorescent lighting (500 lux)	8 hours	92 h	iours	

1 Approximate exposure each day to generate power for normal daily operation.
 2 Approximate amount exposure time required to take power up one level.

 The above exposure times all are for reference only. Actual exposure times depend The above subject strategies in the set relation of the set of the s

E-15

E-14

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 aff cted by Power Saving.

Elapsed Time in Dark	Operation
 There actually are two sleep states 	ate levels: "second hand sleep" and "function sleep".

2 Second Hand only stopped at 12 o'clock, all other functions enabled
 All functions, including analog timekeeping, disabled Internal timekeeping maintained

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

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

E-16

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 Date Settings Manually" (page E-38) 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, PAR, ATH	Anthorn (England), Mainflingen (Germany)
HKG	Shangqiu City (China)
TYO	Fukushima (Japan), Fukuoka/Saga (Japan)
HNL, ANC, LAX, DEN, CHI, NYC	Fort Collins, Colorado (United States)

To recover from the sleep state

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

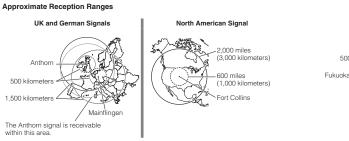
E-17

Important!

. The areas covered by HNL and ANC are guite far from the calibration signal

 The already covered by the air of the air of the call for the Call of the second signal transmitters, so certain conditions may cause reception problems.
 When HNL or HKG is selected as the Home City, only the time and date are adjusted according to the time califoration signal. You need to switch manually between standard time and daylight saving time (DST) if required. See "To toget" of the time caliform. the Home City time between standard time and daylight saying time" (page E-36) for information about how to do this.

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F-20

E-22

Inside or

among buildings

E-24

- Even when the watch is within range of a transmitter, signal reception may be impossible due to the effects of geographic contours, structures, weather, the time of year, the time of day, radio interference, etc. The signal becomes weaker at distances of approximately 500 kilometers, which means that the influence of the conditions listed above becomes even greater.
- 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 Anthorn (England) transmitters: 500 kilometers (310
- miles) Fort Collins (United States) transmitter: 600 miles (1,000 kilometers)
- For colling (childe Category and another to coll thirds (coll knowledge))
 Fukushima or Fukushima or Takushids/aga (Japan) transmitters 500 kilometers (310 miles)
 Shangqiu (China) transmitter: 500 kilometers (310 miles)
 As of October 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

. The receive operation takes from two to seven minutes, but in some cases it

Near household

household appliances office equipment, or a mobile

phone

can take as long as 14 minutes. Take care that you do not perform any button operation or move the watch during this time. Signal reception may be difficult or even impossible under the conditions described below.

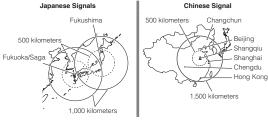
Near a construction site, airport, or other sources of

electrica

noise

Near high pow

tonsion



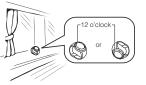
F-21

Using this watch in a country covered by a time calibration that is different from the countries it supports may result in incorrect time indication due to local application of summer time, etc.

To get ready for a receive operation

1. Confirm that the watch is in the Timekeeping Mode. If it isn't, hold down C for about two seconds to enter the Timekeeping Mode.

2. 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

E-23

- 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 or World Time Mode. The receive operation is not performed if a calibration time is reached while you are configuring settings.

The receive operation is complete when the [2] Second Hand moves to YES (Y) or NO (N) for about five seconds, and then resumes regular timekeeping. • You can return to the Timekeeping Mode manually by

Processing (a) while the [2] second Hand is pointing to YES (Y) or NO (N).
When the receive operation is successful, the watch

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

adjusts the time setting accordingly. It does not adjust the setting if the operation failed.

E-25

E-27

To perform manual receive

1

and the Time Receive (A) depressed (for about two seconds) as the [2] Second Hand goes through the following sequence.
 Moves to YES (or Y for some models) or NO (N) to indicate the last signal reception result, then to READY (R).

When the 2 Second Hand is pointed here:

2. The 2 Second Hand indicates the operations the watch is currently performing.

A B	When the Hand is po
	READY (R)
	WORK (W)
	YES (Y)
	NO (N)
2	 If sign

• If signal reception is unstable, the [2] Second Hand may move between WORK (W) and READY (R).

It means this:

successfully.

Watch is setting up for reception.

Reception failed for some reason

Reception is in progress

Reception was completed

E-26



To check the result of the latest receive operation

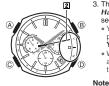
- In the Timekeeping Mode, press (Å). The [2] second Hand will move to YES (Y) for five seconds if the latest receive operation was successful, or NO (N) if it was not. After that, regular timekeeping will resume.
- You can return to the Timekeeping Mode manually by pressing (a) while the [2] Second Hand is pointing to YES (Y) or NO (N).

Note

• The 2 Second Hand will indicate NO (N) if you have adjusted the time or date setting manually since the latest receive operation.

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.
- setting to be off by up to one second. The watch is designed to update the date and day of the week automatically for the period January 1, 2000 to December 31, 2099. Updating of the date 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-72).
- with the precision holds in Specifications (page E-12).
 The receive operation is disabled under any of the following conditions.
 While power is at Level 2 or lower (page E-12)
 While the watch is in the power recovery mode (page E-14)
 When the watch is in the function sleep state (power saving, page E-16)
 While a countdown time operation is in progress (page E-47)
 A receive operation is cancelled if an alarm sounds while it is being performed.



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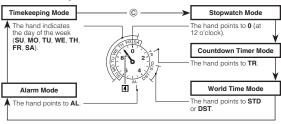
Mode Reference Guide

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

To do this:	Enter this mode:	See:
View the current time in your Home City and in one of 29 other cities around the globe View the current date in the Home City Configure Home City and daylight saving time (DST) settings Perform a time calibration receive operation Configure time and date settings manually	Timekeeping Mode	E-33
Use the stopwatch to measure elapsed time	Stopwatch Mode	E-44
Use the countdown timer	Countdown Timer Mode	E-47
View the current time in one of 29 cities (time zones) around the globe	World Time Mode	E-51
Set an alarm time	Alarm Mode	E-57

To select a mode

Press © to cycle between the modes as shown below. The **4** Left Dial Hand indicates the currently selected mode.



E-32

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 Home City settings

- Note This watch does not have a city code that corresponds
- to Newfoundland.
 In the Timekeeping Mode, keep (a) depressed (for about five seconds) as the [2] Second Hand goes through the following sequence.
 Moves to YES (or Y for some models) or NO (N) to indicate the last signal reception result, then to READY (R), and then to the city code of the currently selected Home City. to Newfoundland.

selected Home City.

This indicates the city code setting mode

E-34

- In the city code setting mode, the [] Left Dial Hand indicates the current daylight saving time setting as STD (standard time) or DST (daylight saving time).
 Note that you cannot switch between STD (standard time)/DST (daylight saving time) while UTC is selected as your Home City.
- 4. After all the settings are the way you want, press (A) to return to the Timekeeping Mode

To toggle the Home City time between standard time and daylight saving time

- To toggle the Home City time between standard time and daying serving units 1. Perform the step 1 under "To configure Home City settings" on page E-34. Each time you select a city code, the [] Hour Hand [] Minute Hand, and [] Lower Dial Hand move to the current time for that city code. Do not perform he next operation until these hands stop moving.
- Press (B) to toggle the time for the city code of the currently selected Home City between STD (standard time)/DST (daylight saving time).
 In the city code setting mode, the <u>A</u> Left Dial Hand indicates the current daylight saving time setting as STD (standard time) or DST (daylight saving time).

E-36

Configuring Current Time and Date Settings Manually

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



- To change the current time setting manually 1. In the Timekeeping Mode, keep (A) depressed (for about five seconds) as the [2] Second Hand goes through the following sequence.
 - Moves to YES (or Y for some models) or NO (N) to indicate the last signal reception result, then to READY (R), and then to the city code of the currently selected Home City. • At this time, the [] Left Dial Hand will indicate the
 - Home City's current daylight saving time setting (STD or DST)

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-32).

To return to the Timekeeping Mode from any other mode

Hold down \bigcirc for about two seconds until the watch beeps twice

E-31

Timekeeping

Use the Timekeeping Mode to view the current time and date. To enter the Timekeeping Mode from any other mode, hold down C for about two seconds



Hand Functions 1 Hour Hand 2 Second Hand

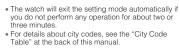
Minute Hand
 Left Dial Hand: Indicates the day of the week.

Lower Dial Hand: Indicates the current hour in the Home City time in 24-hour format.

6 Right Dial Hands:

Indicate the current time in the World Time City (page E-51) in 24-hour format. 7 Day

E-33



To change the Home City setting, press (D) to move the [2] Second Hand clockwise. 2

2] Second Hand clockwise. • Keep pressing (1) until the [2] Second Hand is pointing at 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, [3] Lower Dial 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.

Press (B) to toggle the time for the currently selected city code between STD (standard time)/DST (daylight saving time).

E-35

Note that you cannot switch between STD (standard time)/DST (daylight saving time) while UTC is selected as your Home City.

3. After the setting is the way you want, press (A) to return to the Timekeeping Mode. Note

- After you specify a city code, the watch will use UTC* offsets in the World Time Mode to calculate the current time for other time zones based on the current time
- Selecting some city codes makes it possible for the watch to receive the time calibration signal for the corresponding area automatically. See page E-18 for details details
- Coordinated Universal Time, the world-wide scientific standard of timekeeping. The reference point for UTC is Greenwich, England.

E-37

2. Change the Home City and daylight saving time (DST) 1 2 3 For details about these settings, see steps 2 and 3 under "To configure Home City settings" (page E-34).
 In the following steps, each press of (C) cycles between settings as shown below.







The watch will beep, and the 2 Second Hand and 4 Left Dial Hand will move to their 12 o'clock positions. This is the time setting mode.



1 3



- 4. Use (D) (+) and (B) (-) 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 (D) or (B) 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 S Lower Dial Hand and 1 Hour Hand move in sync with each other.
 When setting the time, make sure that the S Lower Dial 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 manually" (page E-41).
- 5. After the time setting is the way you want, press (A) to return to the Timekeeping
- Mode. This will cause the 2 Second Hand to move automatically to 12 o'clock and resume movement from there

E-40



De

A

E-42

it kan

2 May лù Setting the month

Using the Stopwatch

2

Αp

The stopwatch measures elapsed time and split times.

B)

Hand Functions

- Each press of (D) will move the 2 Second Hand and change the ones digit of the year setting. 4. After the year setting is the way you want, press ©
- The watch will beep and change to the month setting mode
- 5. Use (D) to move the 2 Second Hand to the month Feb setting you want.
- 6. After the month setting is the way you want, press (C).
 The watch will beep and change to the day setting - Mar mode

2 Second Hand: Indicates the stopwatch seconds count.

4 Left Dial Hand: Indicates the stopwatch 1/20-second

6 Right Dial Hands: Indicate the stopwatch hours and minutes

count.

To change the current date setting manually



a secting inariany about five seconds) as the 21 second Hand goes through the following sequence.
Moves to YES (or Y for some models) or NO (N) to indicate the last signal reception result, then to READY (R), and then to the city code of the currently selected Home City.

2. Press © twice.

. The watch will beep and change to the year setting mode.

- The year can be set in the range of 2000 to 2099
- Use (D) and (B) to change the year setting.
 Each press of (B) will move the (I) Left Dial Hand and change the tens digit of the year setting.

E-41

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- 7. Use D (+) and B (-) to change the Day setting. If you want to change the time setting at this time, press (and then perform the procedure starting from step 3 under "To change the current time setting manually" (page E-38).
- - Hand changes automatically in accordance with the date (year, month, and day).

E-43

2. Now you can perform either of following stopwatch operations.

To perform an elapsed time operation

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

To pause at a split time

(B) (D) (D) Normal stopwatch hand movement will start Split resume automatically after five seconds B -> D Ston Reset

E-45

Note

E-44

- The Stopwatch Mode can indicate elapsed time up to 23 hours, 59 minutes, 59.95 seconds
- (D) button operation (split, reset) is disabled while hands are moving at high speed
- Or obtain Operation (spin, reset) is disable while ranks are involved within a high speed following a reset operation and when transitioning from a split time back to normal elapsed timekeeping.
 Once started, stopwatch timing continues until you press (a) to stop it, even if you exit the Stopwatch Mode to another mode and even if timing reaches the stopwatch limit defined above.
- *You can press (a) to start an elapsed time operation immediately after entering the Stopwatch Mode, even if the watch's hands are still moving to their initial Stopwatch Mode positions. Note, however, that if the stopwatch was not reset after the last elapsed time operation, timing will restart from where it was last stopped, and not from 0

The <u>i</u> Left Dial Hand indicates the 1/20-second count for the first 30 seconds of a stopwatch elapsed time operation. After that, the hand stops at 0. 1/20-second timing continues internally after the first 30 seconds, and the <u>i</u> Left Dial Hand will jump to the current value whenever (B) (Stop) or (D) (Split) is pressed.

E-46

To specify the countdown start time 1. Use (C) to move the 4 Left Dial Hand to TR.

- 2. After confirming that the 2 Second Hand is stopped (which indicates there is no ongoing countdown timer operation), press (0).
 If the 2 Second Hand is moving, press (0) to stop it and then press (0).
- 3. Use (D) (+) and (A) (-) to specify the countdown start time.
- Use ((i) (i) and (i) (-) to speciny the countown start time.
 Each press of either button will move the (**B** *Right Dial Hands* one minute.
 Holding down (**D**) or (**A**) will start high-speed hand movement in the applicable direction. To stop high-speed hand movement, press any button.
 The maximum countdown start time setting is 24 hours. To set a countdown start time of 24 hours, move the (**B** *Right Dial Hands* to 24.

Using the Countdown Timer

The countdown timer can be configured to start automatically at a preset time, and sound an alarm when the end of the countdown is reached.

Hand Functions

6



Second Hand: Moves counter-clockwise to countdown the seconds. Automatically switches to clockwise movement after the end of the countdown is reached to count up the seconds of the elapsed time operation.

Left Dial Hand: Points to TR. Right Dial Hands:

Move counter-clockwise to countdown the hours and after the end of the countdown is reached to count up the hours and minutes of the elapsed time operation.

E-47

To perform a countdown timer operation

B	—> B —		-> B	D
Start	Stop	(Restart)	(Stop)	Reset

 Before starting a countdown timer operation, check to make sure that the countdown timer is not already operating (indicated by a moving 2 Second Hand).
 If it is, press (B) to stop it and then (D) to reset to the countdown start time. . An alarm sounds for 10 seconds when the end of the countdown is reached. This

- An alarm sounds for 10 seconds when the end of the countdown is reached. This alarm will sound in all modes.
 While a countdown operation is in progress, the 2 Second Hand and 3 Right Dial Hands move counterclockwise. When the end of a countdown is reached, the 2 Second Hand and 3 Right Dial Hands change direction and start moving clockwise to measure elapsed time after the end of the countdown. The elapsed time operation continues until you press (B) to stop it.
 The maximum time measured by the elapsed time operation that starts after a countdown is complete is 23 hours, 59 minutes, 59 seconds.

- 8. After the settings are the way you want, press (à) to return to the Timekeeping Mode.
 This will cause the [2] Second Hand to move automatically to 12 o'clock and resume movement from there.
 The day of the week indicated by the [4] Left Dial Hand chapters automatically in accordance with the field of the second back with the second bac
- 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.



To perform elapsed time measurement 1. Use (\widehat{C}) to move the **[4]** Left Dial Hand to **0**.

2

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To stop the alarm Press any button.

Note

Pressing any button while the alarm is sounding simply stops the alarm sound.
 It does not stop the elapsed time operation that started when the end of the countdown was reached. To stop the elapsed time operation, press (B).

E-50

To view the time in another time zone

- I. Use © to move the [] Left Dial Hand to STD or DST.
 The [] Second Hand will move to the city code of the currently selected World Time City.
- 2. Use D to move the 2 Second Hand to the city code you want to select as the
- World Time City.
 The [3] Right Dial Hands will move to the current time in the time zone of the current city code. At this time, the [1] Hour Hand and [3] Minute Hand will continue to indicate the current time in the Home City.
- 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 time zone 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. the Home City settings.

E-52

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. 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 New York (NYC) 9:08 a.m. Tokyo (TYO) 10:08 p.m. Before wapping (Standard time) (Daylight saving time) New York (NYC) 9:08 a.m. (Daylight saving tim Tokyo (TYO) 10:08 p.m. Standard time) After swapping

E-54

• The 6 Right Dial Hands will indicate the current time in your new World Time City.

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-56

To change the alarm time setting 1. Use (C) to move the 4 Left Dial Hand to AL.

- Use 0 (+) and (B) (-) to change the alarm time setting.
 Each press of either button will move the [B] Right Dial Hands one minute.
 Holding down (D) or (B) 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 (a) 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.

· Hand home position adjustment is not required if the time and day settings are correct Note

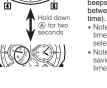
Any time after you enter the home position adjustment mode in step 1 of the following procedure, you can return to the Timekeeping Mode by pressing (a). The watch also will return to the Timekeeping Mode automatically if you do not perform any operation for about two or three minutes in home position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

Strong magnetism or impact can cause the hands and/or date of the watch to be

off, even if the watch is able to perform the signal receive operation. If this happens, perform the applicable home position adjustment procedures in this section.

Adjusting Home Positions Manually

To adjust the home positions manually 1. Hold down © for about two seconds until the watch beeps twice and enters the Timekeeping Mode.



 Wait until the **B** *Right Dial Hands* complete their whose setting you want to change.
 Wait until the **B** *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

1. In the World Time Mode, use (D) to select the city code

Indicates the currently selected World Time City. Left Dial Hand:
 Indicates the current STD (standard time) or DST
 (daylight saving time) setting of the currently selected

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

Checking the Current Time in a Different Time Zone

Hand Functions

2 Second Hand:

time zone

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

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

- Hold down (A) for about two seconds until the watch beeps. This will cause the [] Left Dial Hand to toggle between DST (daylight saving time) and STD (standard
 - time).
 Note that you cannot switch between STD (standard time)/DST (daylight saving time) while UTC is selected as the World Time City.
 Note that the STD (standard time)/DST (daylight saving time) setting affects only the currently selected time zone. Other time zones are not affected.

E-53

E-51



- To swap your Home City and World Time City 1. In the World Time Mode, use D 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.
- Time City. Wait until the [B] *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 (B) 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).

E-55

Using the Alarm

2

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. 6

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

F-59



CASIO



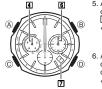
- 2. Hold down (D) for about three seconds until the watch The watch is now in the home position adjustment
- mode. . The watch will exit the adjustment mode automatically
- if you do not perform any operation for about two or three minutes. First is Second Hand home position adjustment

 If the 2 Second Hand moves to 12 o'clock, it is in the home position. If it doesn't, use (D) to move it corre to 12 o'clock

 Each press of
 in the home position adjustment mode will cycle through the adjustment settings as shown below

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

F-60





• The Day is in the correct home position if it shows 1. If it doesn't, use () (+) and () (-) to change shows 1. If it the day to 1.

7. Press (a) 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 move to the current time. Wait until everything stops movi verything stops moving.

E-62

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-16).

The time setting is being adjusted following a successful auto time calibration signal receive operation (page E-18). The watch is returning to the Timekeeping Mode automatically from the Alarm Mode (page E-58).

Hands suddenly stop moving. Button operation also is disabled. The watch may be in the power recovery mode (page E-14). 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 normal operation returns. To help power recover, leave the watch in a location where it is exposed to light.

E-64

World Time Mode

World Time Mode
The World Time Indicated by the [5] Right Dial Hands in the World Time Mode is one hour off from the actual time in the selected time zone.
The STD (standard time)/DST (daylight saving time) setting of the selected World Time City may be wrong. Select the correct STD (standard time)/DST (daylight saving time) setting (page E-53).

The World Time indicated by the 6 Right Dial Hands in the World Time Mode is off.

Your Home City setting may be wrong. Check your Home City setting and correct it, if necessary (page E-34).

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-12). Continue exposing the watch to light until the 2 Second Hand starts moving normally (at onesecond intervals).

E-66

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

Possible Cause	Remedy	Page
 You are wearing or moving the watch, or performing a button operation during the signal receive operation. The watch is in an area with poor reception conditions. 	Keep the watch in an area where reception conditions are good while the 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 calibration signal is not being transmitted for some reason.	 Check the website of the organization that maintains the time calibration signal in your area for information about its down times. Try again later. 	_

- 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 Whor Hand and S Minute Hand are their proper home position adjustment. The <u>II</u> Hour Hand and <u>S</u> Minute Hand are at their proper home positions if they both move to 12 o'clock. The <u>S</u> Lower Dial Hand also will move along with <u>II</u> Hour Hand movement, and cannot be adjusted individually. If the hands are not positioned correctly, use <u>()</u> (+) and <u>()</u> (-) to move them to their proper home positions.



4. After confirming that the 1 Hour Hand and 3 Minute *Hand* are in their correct home positions, press ©. This will switch to **6** *Right Dial Hands* home position adjustment.

The B Right Dial Hands are at their proper home positions if they both move to 12 o'clock. If the hands are not positioned correctly, use
() (+) and
() (-) to move them to 12 o'clock.

F-61

Troubleshooting

Hand Movement and Position

■ I lost track of what mode the watch is in. Refer to "To select a mode" (page E-32). To return directly to the Timekeeping Mode from any other mode, hold down © for about 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-12).

E-63

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-34).

The current time setting is off by one hour.

■ The current time setting is off by one hour. If you are using the watch in an area where time calibration signal reception is possible, see "To configure Home City settings" (page E-34). If you are using in the watch in an area where time calibration signal reception is not possible, you may need to change your Home City's STD (standard time)/DST (daylight saving time) setting manually. Use the procedure under "To toggle the Home City time between standard time and daylight saving time" (page E-36) 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-59).

E-65

■ 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 LON, PAR, ATH, HNL, ANC, LAX, DEN, CHI, NYC, HKG, or TYO is selected at the Home City. You need to adjust the current time manually when any other city is selected as the Home City.

E-67

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
Signal reception on a day for switching between STD (standard	Perform the operation under "To get ready for a receive operation". The time setting will be adjusted automatically as soon as signal reception is successful.	E-23
	If you are unable to receive the time calibration signal, change the STD (standard time)/ DST (daylight saving time) setting manually.	E-36

CASIO

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

Possible Cause	Remedy	Page
The watch is in the Stopwatch Mode or Countdown Timer Mode.	Auto Receive is not performed while the watch is in the Stopwatch Mode or Countdown Timer Mode. Hold down © for about two seconds to enter the Timekeeping Mode.	E-31
Your Home City setting is wrong.	Check your Home City setting and correct it, if necessary.	E-34
A countdown timer operation is in progress.	Both Auto Receive and Manual Receive are impossible while a countdown is in progress. In the Countdown Timer Mode, stop the timer operation and then return to the Timekeeping Mode.	E-47
There is not enough power for signal reception.	Expose the watch to light to charge it.	E-10

E-70

Specifications

Accuracy at normal temperature: ± 15 seconds a month (with no signal calibration) Timekeeping: Hour, minutes (hand moves every 10 seconds), seconds, 24-hour,

- day, day of the week 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

Universal Time); Daylight Saving Time (summer time) / 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 carcelled as soon as onon is successful); Manual receive Receivable Time Calibration Signals: Mainflingen, Germany (Call Sign: DCF77, Frequency: 77.5 kHz); Anthorn, England (Call Sign: SbF, Frequency: 60.0 kHz); Fukushima, Japan (Call Sign: JJY, Frequency: 40.0 kHz); Fukushima, Call Sign: JJY, Frequency: 60.0 kHz); Fukushima, (Call Sign: JJY, Frequency: 40.0 kHz); For Colins, Colorado, the United States (Call Sign: WWVB, Frequency: 60.0 kHz); Shangqiu City, Henan Province, China (Call Sign: BPC, Frequency: 68.5 kHz)

E-72

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-34
The watch may have 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 positions.	E-59

E-71

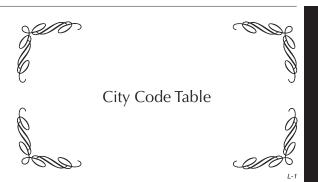
Stopwatch: Measuring capacity: 23:59'59.95" Measuring unit: 1/20 second Measuring mode: Elapsed time, split time

- Countdown Timer: Measuring unit: 1 second Input range: 1 minute to 24 hours (1-minute increments) Other: Auto switching to elapsed time measurement (1-second units) when the end of a countdown timer operation is reached
- 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

Aldrin: Dany atomic Other: Power Saving Power Supply: Solar cell and one rechargeable battery Approximate battery operating time: 5 months (no exposure to light after a full charge; 10 seconds alarm beeper operation, 6 hours of stopped second hand, and one signal reception of approximately 4 minutes per day)

E-73



City Code Table

City Code	City	UTC Offset/ GMT Differential	City Code	City	UTC Offset/ GMT Differential
PPG	Pago Pago	-11	JED	Jeddah	+3
HNL	Honolulu	-10	THR	Tehran	+3.5
ANC	Anchorage	-9	DXB	Dubai	+4
LAX	Los Angeles	-8	KBL	Kabul	+4.5
DEN	Denver	-7	KHI	Karachi	+5
CHI	Chicago	-6	DEL	Delhi	+5.5
NYC	New York	-5	DAC	Dhaka	+6
SCL	Santiago	-4	RGN	Yangon	+6.5
RIO	Rio De Janeiro	-3	BKK	Bangkok	+7
FEN	Fernando de Noronha	-2	HKG	Hong Kong	+8
RAI	Praia	-1	TYO	Tokyo	+9
UTC		0	ADL	Adelaide	+9.5
LON	London		SYD	Sydney	+10
PAR	Paris	+1	NOU	Noumea	+11
ATH	Athens	+2	WLG	Wellington	+12
L-2					

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-3