

Operation Guide 5286 (OC)

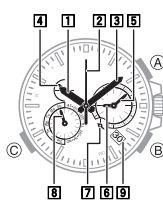
Congratulations upon your selection of this CASIO watch.

• 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.

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.

Hand Functions

- 1 Hour Hand
- 2 Second Hand
- 3 Minute Hand
- 4 Hour Hand (24-hour)
- 5 Small Minute Hand
- 6 Small Hour Hand
- 7 Small Hour Hand (24-hour)
- 8 Lower Dial Hand
- 9 Day Indicator

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

Hand and Date Indicator Movement

- The movement of the **2 Second Hand** and **3 Minute Hand** of this watch are coordinated. To change the **3 Minute Hand** setting, you will need to move the **2 Second Hand**.
- **9 Day Indicator** movement is also coordinated with **1 Hour Hand** movement. To change the **9 Day Indicator** setting, you will need to move the **1 Hour Hand**.

To start HS1 high-speed movement



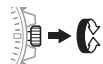
While the crown is pulled out, rotate it rapidly three turns away from you (for forward movement) or towards you (for reverse movement). High-speed movement will continue even if you release the crown.

To start HS2 high-speed movement



While HS1 high-speed movement is progress, again rotate the crown rapidly three turns in the same direction as the current HS1 movement (away from you for forward movement or towards you for reverse movement).

To stop high-speed movement



Rotate the crown in the direction that is opposite that of the current high-speed movement or press any button.

Important!

- Leaving the crown pulled out for more than two minutes (approximately 30 minutes in the case of hand home position adjustment) without performing any operation will automatically cause crown operations to become disabled. If this happens, press the crown back in, pull it out, and then start the operation over again.

Crown Operations

The crown can be pulled out to one of two (click) positions. Never apply undue force when pulling out the crown.

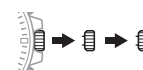
Important!

- In order to ensure full water resistance and to prevent damage due to impact, make sure that the crown is normally pushed in fully when using the watch.
- When pulling out the crown, avoid using undue force, which creates the risk of personal injury to your fingers and fingernails, and of watch malfunction.

First click



Second click

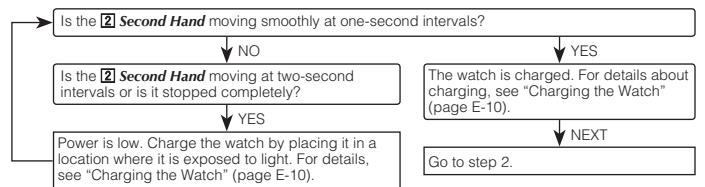


High-speed Movement

When setting a time or when performing home position adjustment (page E-44), you can move the hands either forward or back at high speed. There are two high-speed levels: HS1 and HS2 (faster than HS1).

Things to check before using the watch

1. Observe the movement of the 2 Second Hand.



2. Check the Home City.

Use the procedure under "To configure Home City settings" (page E-24) to configure your Home City.

Important!

- Proper time calibration signal reception depends on correct Home City, time, and date settings in the Dual Time 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-16).
- **To set the time manually**
See "Configuring Current Time and Date Settings Manually" (page E-28).

The watch is now ready for use.

- For details about the watch's radio controlled timekeeping feature, see "Radio Controlled Atomic Timekeeping" (page E-14).

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Charging the Watch

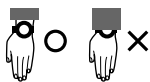
The face of the watch is a solar panel that generates power from light. The generated power charges a built-in rechargeable battery, which powers watch operations. The watch charges whenever it is exposed to light.

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, make sure that its face is not blocked from light by the sleeve of your clothing.

- The watch may enter a sleep state (page E-13) if its face is blocked by your sleeve even only partially.

Warning!

Leaving the watch in bright light for charging can cause it to become quite hot. Take care when handling the watch to avoid burn injury. The watch can become particularly hot when exposed to the following conditions for long periods.

- On the dashboard of a car parked in direct sunlight
- Too close to an incandescent lamp
- Under direct sunlight

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- 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, so you will need to configure settings again.
- 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 overuse of the alarm tone over a short period 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.

Charging Times

Exposure Level (Brightness)	Daily Operation *1	Level Change *2		
		Level 3	Level 2	Level 1
Outdoor sunlight (50,000 lux)	8 minutes	2 hours	23 hours	
Window sunlight (10,000 lux)	30 minutes	6 hours	86 hours	
Window sunlight on cloudy day (5,000 lux)	48 minutes	9 hours	139 hours	
Indoor fluorescent lighting (500 lux)	8 hours	94 hours	--	

* 1 Approximate exposure each day to generate power for normal daily operation.

* 2 Approximate exposure to take power up one level.

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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-28) 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:
LONDON (LON), PARIS (PAR), ATHENS (ATH)	Anthorn (England), Mainflingen (Germany)
HONG KONG (HKG)	Shangqiu City (China)
TOKYO (TYO)	Fukushima (Japan), Fukuoka/Saga (Japan)
NEW YORK (NYC), CHICAGO (CHI), DENVER (DEN), LOS ANGELES (LAX), ANCHORAGE (ANC), HONOLULU (HNL)	Fort Collins, Colorado (United States)

Important!

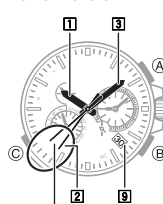
- The areas covered by **HONOLULU (HNL)** and **ANCHORAGE (ANC)** are quite far from the calibration signal transmitters, so certain conditions may cause reception problems.

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Important!

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

Power Levels



Moves at two-second intervals.

You can get an idea of the watch's power level by observing the movement of the **[2] Second Hand**.

- 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 (**Low battery alert**). Expose the watch to light as soon as possible so it can charge.

Level	Hand Movement	Function Status
1	Normal.	All functions enabled
2	[2] Second Hand moves at two-second intervals.	Beeper, time calibration signal reception, countdown timer operation, and home position adjustment disabled
3	All hands stopped at 12 o'clock. [8] Day Indicator between 31 and 1 .	All functions disabled

- 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-54).

Power Saving

Power Saving enters a sleep state automatically whenever the watch is left for a certain period in an area where it is dark. The table below shows how watch functions are affected by Power Saving.

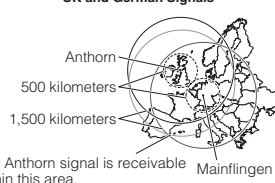
Elapsed Time in Dark	Operation
Approximately 1 week	<ul style="list-style-type: none"> • All hands stopped at 12 o'clock • Internal timekeeping maintained

To recover from the sleep state

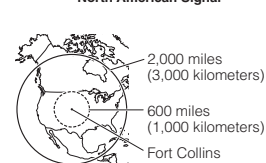
Move the watch to a well-lit area or press any button.

Approximate Reception Ranges

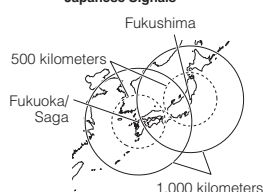
UK and German Signals



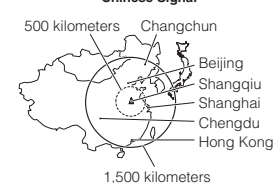
North American Signal



Japanese Signals



Chinese Signal



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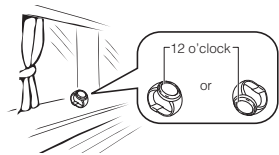
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- Signal reception may not be possible at the distances noted below during certain times of the year or day. Radio interference may also cause problems with reception.
 - Mainflingen (Germany) or Anhorn (England) transmitters: 500 kilometers (310 miles)
 - 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 June 2012, 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 for the China time zones.
- 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 summer time, etc.

To get ready for a receive operation

- Confirm that the watch is in the Dual Time Mode. If it isn't, hold down **(C)** for at least two seconds to enter the Dual Time 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 10 minutes, but in some cases it can take as long as 20 minutes. Take care that you do not perform any button operation or move the watch during this time.

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



- Inside or among buildings
- Inside a vehicle
- Near household appliances, office equipment, or a mobile phone
- Near a construction site, airport, or other sources of electrical noise
- Near high-tension power lines
- Among or behind mountains

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

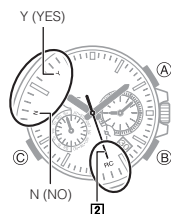
- Auto Receive: Leave the watch over night in the location you selected in step 2.
- Manual Receive: Perform the operation under "To perform manual receive" on page E-18.

Important!

- 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. When any receive operation is successful, none of the other receive operations for that day are performed.
- Calibration signal reception is disabled in the following cases.
 - While an elapsed time operation is in progress in the Stopwatch Mode
 - While a timer operation is in progress
 - While Auto Receive is turned off
 - While the crown is pulled out

To perform manual receive

- Hold down **(C)** for at least two seconds to enter the Dual Time Mode (page E-23).
- Hold down **(B)** for at least two seconds.
 - The **[2] Second Hand** will first indicate the last receive results as either **Y (YES)** or **N (NO)**, and then move to **RC (R)** (Receive in progress) to indicate that signal reception has started.



- The watch's time setting is adjusted automatically whenever a receive operation is successful.

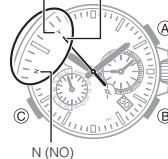
Note

- The current time indication may become out of sync by two or three minutes while a receive operation is in progress. Correct indication will resume after the receive operation is complete. If you need to produce a correct time reading immediately, press any button to stop the receive operation.
- If reception fails for some reason, check the surrounding area and eliminate possible causes for failure and then try again. See "To get ready for a receive operation" (page E-16).

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To check the result of the latest receive operation

- Hold down **(C)** for at least two seconds to enter the Dual Time Mode (page E-23).



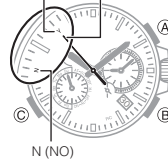
- Press **(B)**.
 - The **[2] Second Hand** will move to **Y (YES)** if the latest receive operation was successful, or **N (NO)** if it was not. After about ten seconds, regular timekeeping will resume.
 - You can return to the Dual Time Mode manually by pressing any button while the **[2] Second Hand** is pointing to **Y (YES)** or **N (NO)**.

Note

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

To turn auto receive on and off

- Hold down **(C)** for at least two seconds to enter the Dual Time Mode (page E-23).



- Press **(B)**.
- During the 10 seconds that the **[2] Second Hand** is pointing to the latest receive operation result (see above), pull out the crown to the first click.
 - This will cause the **[2] Second Hand** to point to either **Y (YES)** or **N (NO)**, which indicates the current on/off setting.
 - Leaving the crown pulled out for more than two minutes without performing any operation will automatically cause crown operations to become disabled. If this happens, press the crown back in, pull it out, and then start the operation over again.

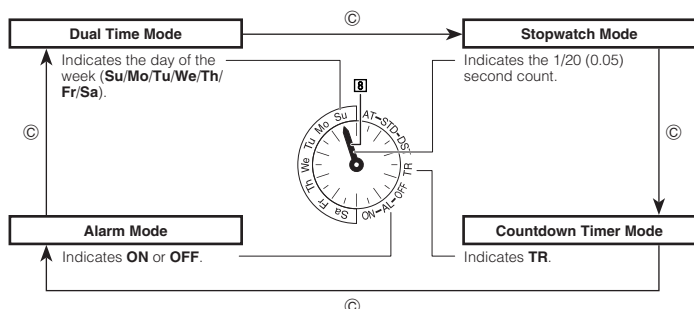
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- Rotate the crown to move the **[2] Second Hand** to the setting you want.
 - To turn on auto receive, select **Y (YES)**.
 - To turn off auto receive, select **N (NO)**.

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 the date and day of the week automatically for the period from 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-53).
 - The receive operation is disabled under any of the following conditions.
 - While power is at Level 2 or Level 3 (page E-11)
 - While the watch is in the power recovery mode (page E-12)
 - While the watch is in the sleep state (power saving, page E-13)
- A receive operation is cancelled if an alarm sounds while it is being performed.

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- You can return to the Dual Time Mode from any other mode by holding down **(C)** for at least two seconds.

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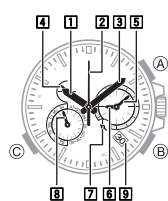
Mode Reference Guide

Your watch has four "modes". The mode you should select depends on what you want to do. Use **(C)** to cycle between modes.

To do this:	Enter this mode:	See:
<ul style="list-style-type: none"> View the current time and date in your Home City Configure Home City and summer time (DST) settings Receive the time calibration signal automatically Manually adjust the time or date setting 	Any Mode	E-23
<ul style="list-style-type: none"> View the current time in one of 29 other cities around the globe Perform manual time calibration signal reception View reception results Turn auto time calibration signal reception on or off Configure World Time City and summer time settings Swap the Home City and World Time City 	Dual Time Mode	E-23
<ul style="list-style-type: none"> Use the stopwatch to measure elapsed time Use Auto Start 	Stopwatch Mode	E-35
Use the countdown timer	Countdown Timer Mode	E-39
Set an alarm time	Alarm Mode	E-42

Timekeeping (Dual Time Mode)

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



Hand Functions

- Hour Hand
- Second Hand
- Minute Hand
- Hour Hand (24-hour)
- Small Minute Hand: World Time minute hand
- Small Hour Hand: World Time hour hand
- Small Hour Hand (24-hour): World Time 24-hour hand
- Lower Dial Hand: Indicates the current day of the week.
- Day Indicator

- Pressing **(A)** causes the **[2] Second Hand** to move to the current Home City for about one second.
- The **[9] Day Indicator** will change gradually between approximately 10 p.m. and 2 a.m. During this period the number indicating the day will not be centered in the indicator window.

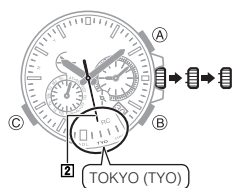
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E-23

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.

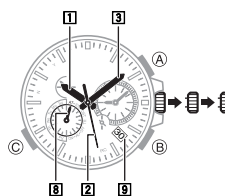
- For information about specifying a World Time City, see "Checking the Current Time in a Different Time Zone" (page E-32).



To configure Home City settings

Note

- This watch does not have a city code that corresponds to Newfoundland.
- In any mode, pull out the crown to the second click.
 - 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.
 - Leaving the crown pulled out for more than two minutes without performing any operation will automatically cause crown operations to become disabled. If this happens, press the crown back in, pull it out, and then start the operation over 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 **[9] Day Indicator** move to the current time and date for that city code.
 - Whenever you move the **[2] Second Hand** to 12 o'clock while selecting a city code, it will automatically perform one full revolution and stop at 12 o'clock from the opposite direction.
 - The **[8] Lower Dial Hand** shows the summer time setting for the currently selected Home City.
- Push the crown back in to return to the mode you started from in step 1.

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 the watch in a city not included in the City Code Table
- When the switching dates in your location are different from those shown in the City Code Table

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.

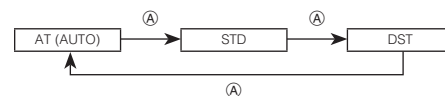
To switch between standard time and summer time manually



- Perform steps 1 and 2 under "To configure Home City settings" (page E-24).
 - Displaying the Home City Settings screen will cause the **[8] Lower Dial Hand** to move to **AT (AUTO)** (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.

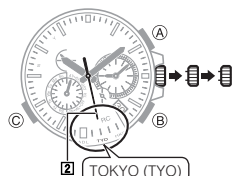
- Hold down **(A)** for about one second to cycle through the summer time settings as shown below.



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

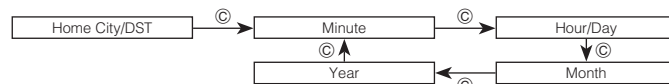
Configuring Current Time and Date Settings Manually

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

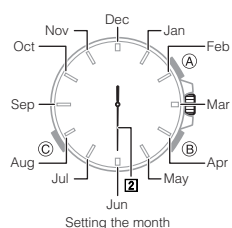


To change the current time and date setting manually

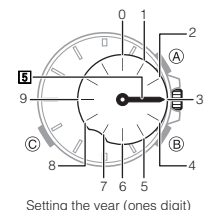
- In any mode, pull out the crown to the second click.
 - This will cause the **[2] Second Hand** to move to the city code of the currently selected Home City.
 - Leaving the crown pulled out for more than two minutes without performing any operation will automatically cause crown operations to become disabled. If this happens, press the crown back in, pull it out, and then start the operation over again.
- Change the Home City setting, if you want.
 - To change the Home City setting, perform step 2 under "To configure Home City settings" (page E-24).
- Hold down **(C)** for about one second. This will enter the time and date setting mode.
 - The watch will beep and the **[2] Second Hand** will move to 12 o'clock.
 - In the following steps, each press of **(C)** cycles between settings as shown below.



- Rotate the crown to adjust the minute setting.
 - A high-speed movement feature (one full cycle maximum) is available when adjusting the hands. See "Crown Operations" (page E-3).
- Press **(C)**.
 - The **[1] Hour Hand** will move slightly left and right to indicate the hour and day setting mode.
- Rotate the crown to change the current hour and day settings.
 - Keep rotating the crown to move the **[1] Hour Hand** until the **[9] Day Indicator** shows the day you want.
 - The **[9] Day Indicator** will change gradually between 10 p.m. and 2 a.m. During this period the number indicating the day will not be centered in the indicator window.
 - While changing the hour setting, you can determine whether the setting is a.m. or p.m. by watching the **[9] Day Indicator** as the **[1] Hour Hand** passes 12 o'clock.
 - A high-speed movement feature (one full cycle maximum) is available when adjusting the hands. See "Crown Operations" (page E-3).



- Press **(C)** to enter the month setting mode.
 - The **[2] Second Hand** will move to the currently selected month.
- Rotate the crown to adjust the month setting.

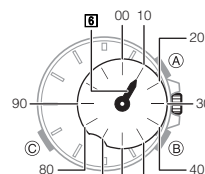


Setting the year (ones digit)

- Press **(C)**. This will enter the year setting mode.
 - The **[6] Small Hour Hand** indicates the number that represents the tens digit of the year and the **[5] Small Minute Hand** indicates the number that represents the ones digit.
- Rotate the crown to adjust the year setting.
- After the settings are the way you want, push the crown back in to return to the mode you started from in step 1.
 - This causes timekeeping to resume with the **[2] Second Hand** starting from 12 o'clock.
 - The day of the week indicated by the **[8] Lower Dial Hand** changes automatically in accordance with the date (year, month, and day).

Note

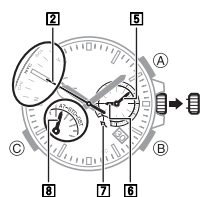
- The watch's built-in full automatic calendar makes allowances for different month lengths and leap years. Once you set the date, there should be no reason to change it except after you have the watch's rechargeable battery replaced or after power drops to Level 3.



Setting the year (tens digit)

Checking the Current Time in a Different Time Zone

You can specify one other city from the watch's 29 time zones as your World Time City. After you do, the watch will indicate display the current time in that city. The currently selected city is called the "World Time City".



Hands and Indicators

The hands below indicate the current time in the World Time City.

- 5** Small Minute Hand
- 6** Small Hour Hand
- 7** Small Hour Hand (24-hour)

To enter the Dual Time Mode

Refer to the Mode Reference Guide (page E-21).

- Entering the Dual Time Mode will cause the **8** Lower Dial Hand to move to the current day of the week (**Su/Mo/Tu/We/Th/Fr/Sa**).

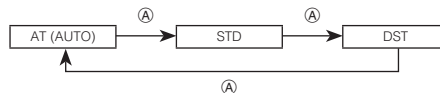
To view the time in another time zone

1. In the Dual Time Mode, pull out the crown to the first click
 - The **2** Second Hand points to the currently selected World Time city code.
 - The **8** Lower Dial Hand will indicate **AT (AUTO)**, **STD** (standard time) or **DST** (daylight saving time), which indicates the current daylight saving time setting.
 - Leaving the crown pulled out for more than two minutes without performing any operation will automatically cause crown operations to become disabled. If this happens, press the crown back in, pull it out, and then start the operation over again.

E-32

2. 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 **5** Small Minute Hand, **6** Small Hour Hand, and **7** Small Hour Hand (24-hour) move to the current time. For details about city codes, see the "City Code Table" at the back of this manual.
 - Whenever you move the **2** Second Hand to 12 o'clock while selecting a city code, it will automatically perform one full revolution and stop at 12 o'clock from the opposite direction.
 - 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-24) to correct the Home City settings.

3. Hold down **A** for about one second to cycle through the summer time settings as shown below.
 - Selecting **AT (AUTO)**, **STD** and **DST** settings, see "STD/DST Switching" (page E-26).

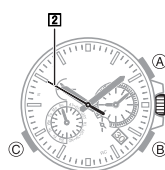


4. Push the crown back in.

E-33

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 **TOKYO (TYO)** and the World Time City is **NEW YORK (NYC)**.

	Home City	World Time City
Before swapping	TOKYO (TYO) 10:08 p.m. (Standard time)	NEW YORK (NYC) 9:08 a.m. (Daylight saving time)
After swapping	NEW YORK (NYC) 9:08 a.m. (Daylight saving time)	TOKYO (TYO) 10:08 p.m. (Standard time)

To swap your Home City and World Time City

Hold down **A** for about three seconds.

- This will make the World Time City (**NEW YORK** in this example) your new Home City. At the same time, it will change your previous Home City to your new World Time City.
- The **2** Second Hand will point to the new Home City (**NEW YORK** in this example) for about one second.

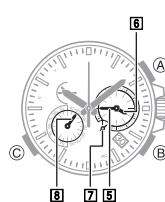
Note

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

E-34

Using the Stopwatch

The stopwatch measures elapsed time and split times.



Hand Functions

- 5** Small Minute Hand: Indicates the stopwatch seconds count.
- 6** Small Hour Hand: Indicates the stopwatch minute count (1 revolution = 60 minutes).
- 7** Small Hour Hand (24-hour): Indicates the stopwatch minute count (1 revolution = 120 minutes).
- 8** Lower Dial Hand: Indicates the 1/20 (0.05)-second count during stopwatch operation.

To enter the Stopwatch Mode

Refer to the Mode Reference Guide (page E-21).

- Entering the Stopwatch Mode will cause the **8** Lower Dial Hand to move to **0**.

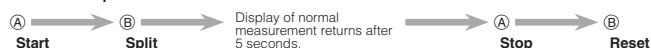
To measure elapsed time



- Pressing **A** to restart the stopwatch without resetting it will resume the elapsed time operation from where it was last stopped.

E-35

To measure split times



- Pressing **B** again while a split time is indicated will cause the hands to jump to a new (current) split time.
- Pressing **A** while a split time is indicated will stop the elapsed time operation, causing the hands to jump to the stop time.

Note

- The Stopwatch Mode can indicate elapsed time up to 1 hour, 59 minutes, 59.95 seconds. Elapsed time measurement will stop automatically when the maximum time is reached.
- The display illustration on page E-35 shows a stopwatch reading of 20 minutes, 45.10 seconds.
- Pressing **B** will not perform a reset operation while the hands are moving to elapsed timekeeping after you enter the Stopwatch Mode.
- The **8** Lower Dial Hand indicates the 1/20 (0.05)-second count for the first 30 seconds of a stopwatch elapsed time operation. The **2** Second Hand will jump to the current value whenever **A** (Stop) is pressed.

E-36

2. Rotate the crown to specify the Auto Start time seconds setting.
 - You can use high-speed movement (page E-3) when performing the above step.
 - Changing the seconds setting will also cause the minutes setting to change.
3. Press **C**.
4. Rotate the crown to specify the Auto Start time minutes setting.
 - You can use high-speed movement (page E-3) when performing the above step.
5. Push the crown back in.

To start an Auto Start operation

1. In the Stopwatch Mode with the elapsed time reset to all zeros, press **B**.
 - This causes the **5** Small Minute Hand, **6** Small Hour Hand, and **7** Small Hour Hand (24-hour) to move to the current Auto Start time.
 - Press **B** to toggle between the normal stopwatch screen and the Auto Start time screen.
2. While the Auto Start time is indicated by the hands, press **A**.
 - This starts the countdown from the Auto Start time.
 - For information about button operations after the Auto Start starts elapsed time measurement, see "To measure elapsed time" (page E-35) and "To measure split times" (page E-36).

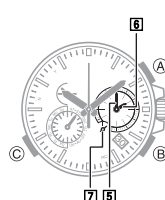
Note

- To interrupt the countdown and immediately start the elapsed time operation, press **A**.
- You can perform all normal stopwatch button operations after the elapsed time operation starts.
- Auto Start is turned off automatically when you reset the stopwatch to all zeros after the current elapsed time operation. However, you can recall the last Auto Start time you set by pressing **B**.

E-38

Auto Start

Auto Start starts a countdown from a specified start time (Auto Start time), and automatically starts elapsed time measurement when the countdown reaches zero.



Hand Functions

- 5** Small Minute Hand: Auto Start seconds
- 6** Small Hour Hand: Auto Start minutes (0 to 60)
- 7** Small Minute Hand (24-hour): Auto Start minutes (0 to 119)

To enter the Stopwatch Mode

Refer to the Mode Reference Guide (page E-21).

- Entering the Stopwatch Mode will cause the **8** Lower Dial Hand to move to **0**.

To set the Auto Start Time

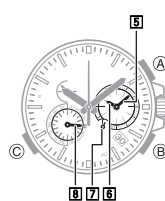
- You can specify an Auto Start time within the range of 0 to 119 minutes and 59 seconds.

1. In the Stopwatch Mode, pull out the crown to the first click.
 - 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-37

Using the Countdown Timer

The countdown timer can be configured within a range of one minute to 120 minutes. An alarm sounds for about 10 seconds when the timer reaches zero.



Hand Functions

- 5** Small Minute Hand: Indicates countdown seconds.
- 6** Small Hour Hand: Indicates countdown minutes (1 revolution = 60 minutes).
- 7** Small Hour Hand (24-hour): Indicates countdown minutes (1 revolution = 120 minutes).
- 8** Lower Dial Hand: Points to **TR**.
- All hands move counterclockwise during a countdown.

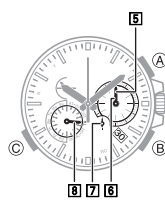
To enter the Countdown Timer Mode

Refer to the Mode Reference Guide (page E-21).

- Entering the Countdown Timer Mode will cause the **8** Lower Dial Hand to move to **TR**.

E-39

To specify the countdown start time



- In the Countdown Timer Mode, pull out the crown to the first click.
 - 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.
- Rotate the crown to set the countdown start time.
 - You can use high-speed movement (page E-3) when performing the above step.
 - To set a start time of 60 minutes, position the **5 Small Minute Hand** at 12 o'clock and the **7 Small Hour Hand (24-hour)** at 6 o'clock. To set a start time of 120 minutes, position the **5 Small Minute Hand** and the **7 Small Hour Hand (24-hour)** at 12 o'clock.
- Push the crown back in.

To perform a countdown timer operation



- Pressing **B** while the Countdown Timer is stopped resets the displayed time to the start time specified by you.
- Pressing **B** will not perform a reset while the hands are moving to the current timer time after you enter the Countdown Timer Mode.

E-40

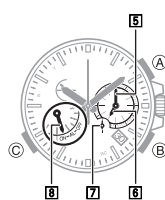
- Before starting a countdown timer operation, check to make sure that the countdown timer is not already operating (indicated by a moving **5 Small Minute Hand**). If it is, press **A** to stop it and then **B** to reset to the countdown start time.
- Pulling out the crown while a countdown operation is in progress will stop the ongoing operation so you can change the countdown start time setting.

To stop the alarm

Press any button.

Using the Alarm

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



Hand Functions

- 5 Small Minute Hand:** Indicates the currently set alarm time minute.
- 6 Small Hour Hand:** Indicates the currently set alarm time hour.
- 7 Small Hour Hand (24-hour):** Indicates the currently set alarm time in 24-hour format.
- 8 Lower Dial Hand:** Indicates the current alarm ON/OFF setting.

To enter the Alarm Mode

Refer to the Mode Reference Guide (page E-21).

- Entering the Alarm Mode will cause the **8 Lower Dial Hand** to move to ON or OFF.

To change the alarm time setting

- In the Alarm Mode, pull out the crown to the first click.
 - 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.
- Rotate the crown to set the alarm time minute.
 - A high-speed movement feature (one full cycle maximum) is available in steps 2 and 4 when adjusting the hands. See "Crown Operations" (page E-3).

E-42

- Press **C**.
 - This causes the **6 Small Hour Hand** to move.

- Rotate the crown to set the alarm time hour.
 - Movement of the **7 Small Hour Hand (24-hour)** is synchronized with movement of the **6 Small Hour Hand**.
 - The 12 o'clock position of the **7 Small Hour Hand (24-hour)** indicates 24:00, while the 6 o'clock position indicates 12:00.

Note

- Each press of the **C** button toggles between the alarm time minute setting and the hour setting.



- Selecting the minute setting causes the **5 Small Minute Hand** to move slightly. Selecting the hour setting causes the **6 Small Hour Hand** to move slightly.

- Push the crown back in.
 - The alarm always works based on the time kept by the watch.

To turn the alarm on or off

In the Alarm Mode, press **A** to toggle the alarm between on and off. The **8 Lower Dial Hand** will indicate the current ON/OFF setting.

To stop the alarm

Press any button.

E-41

Adjusting the Hand and Day Home Positions

If the watch is exposed to strong magnetism or impact, it can cause its hands and/or the date to go out of alignment. This can result in incorrect date and/or time indication even though a time calibration signal is being received.

The watch automatically adjusts the **2 Second Hand**, **3 Minute Hand**, and **1 Hour Hand** positions periodically. You also can trigger hand position adjustment manually, if you want.

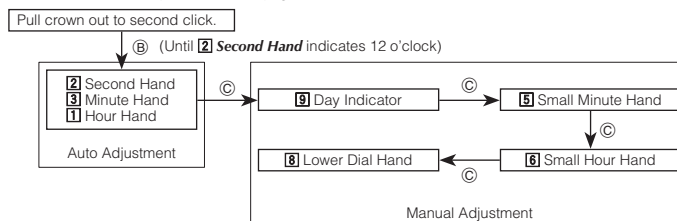
- The **4 Hour Hand (24-hour)** is adjusted simultaneously with the **1 Hour Hand**.

If you notice that the **5 Small Minute Hand**, **6 Small Hour Hand**, **7 Small Hour Hand (24-hour)**, **8 Lower Dial Hand**, or **9 Day Indicator** are not in the correct position, perform manual adjustment.

- The **7 Small Hour Hand (24-hour)** is adjusted simultaneously with the **6 Small Hour Hand**.

Hand/Day Adjustment Steps

For full details, see the procedure from page E-46 to E-47.



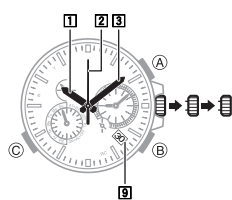
- After completing adjustment, push the crown back in. Pushing the crown back in part way through adjustment will return to the mode you started from with any adjustments you made in effect.

E-44

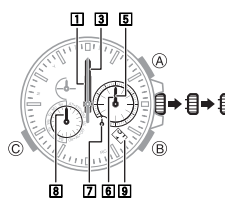
To adjust the hand and day home positions

Important!

- You do not need to perform the procedure in this section if the watch is indicating the time and/or day correctly.



- In any mode, pull the crown out to the second click.
- Hold down **B** until the watch beeps and the **2 Second Hand** moves to 12 o'clock. This takes about five seconds.
 - Release **B** when the **2 Second Hand** gets to 12 o'clock. At this time the watch will start automatic adjustment of the **2 Second Hand**, **3 Minute Hand**, and **1 Hour Hand** positions.
 - Adjustment is complete when the **2 Second Hand**, **3 Minute Hand**, and **1 Hour Hand** move to 12 o'clock.
- Press **C**.
 - This will cause the **1 Hour Hand** and **9 Day Indicator** to move.
 - Wait until the **9 Day Indicator** stops at a position halfway between 31 and 1.
 - If the **9 Day Indicator** is not halfway between 31 and 1, rotate the crown until it is.
 - Rotating the crown causes the **1 Hour Hand** to move in 12-hour increments, and the **9 Day Indicator** to move in half-day increments.



- Press **C**.
 - Check if the **5 Small Minute Hand** is stopped at 12 o'clock.
 - If the position of the **5 Small Minute Hand** is not correct, rotate the crown to adjust it to 12 o'clock.
- Press **C**.
 - Check if the **6 Small Hour Hand** is stopped at 12 o'clock.
 - If the position of the **6 Small Hour Hand** is not correct, rotate the crown to adjust it to 12 o'clock.
 - The **7 Small Hour Hand (24-hour)** moves simultaneously with the **6 Small Hour Hand**. If the hands are not at 12 o'clock, advance the **6 Small Hour Hand** until they do.
- Press **C**.
 - Check if the **8 Lower Dial Hand** is stopped at 12 o'clock.
 - If the position of the **8 Lower Dial Hand** is not correct, rotate the crown to adjust it to 12 o'clock.
- Push the crown back in.

This exits the adjustment mode and returns to normal timekeeping.

Important!

- Leaving the crown pulled out for more than approximately 30 minutes without performing any operation will automatically cause the adjustment operation to become disabled. If this happens, push the crown back in and then pull it out to restart the above procedure from the beginning.
- Pushing the crown in will return to the mode you started from in step 1 with the hands and/or day in their newly adjusted positions.

E-46

E-47

Troubleshooting

Hand Movement and Position

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

Refer to "Mode Reference Guide" (page E-21). To return directly to the Dual Time Mode, hold down **C** for 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-11).

■ 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-13).
- The time setting is being adjusted following a successful auto time calibration signal receive operation (page E-14).

■ Hands suddenly stop moving. Button operation also is disabled.

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

■ The current time setting is off by hours.

- Your Home City setting may be wrong. Check your Home City setting and correct it, if necessary (page E-24).

E-48

■ 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-24).
- 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-27) to switch from **AT (AUTO)** to **STD** (for standard time) or **DST** (for summer time).

■ 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-44).

■ Data indication is correct, but it is not in the middle of the day indicator.

The **[3]** Day Indicator will change gradually between approximately 10 p.m. and 2 a.m. each day. If the date is misaligned during this period, it is only momentarily and does not indicate malfunction. If you change your Home City setting while the current time in the new Home City is between approximately 10 p.m. and 2 a.m., the date may become misaligned momentarily.

Charging

■ The watch does not resume operation after I expose it to light.

It can take quite a long time to charge the battery after the power level drops to Level 3 (page E-11). 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.

E-49

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.

■ 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"> • 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-16
An alarm sounded while time signal reception was in progress.	Try again later.	—
You are in an area where signal reception is not possible for some reason.	See "Approximate Reception Ranges".	E-15
The calibration signal is not being transmitted for some reason.	<ul style="list-style-type: none"> • Check the website of the organization that maintains the time calibration signal in your area for information about its down times. • Try again later. 	—

■ 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-17), 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-24).

E-50

■ 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 AT (AUTO) to STD (for standard time) or DST (for summer time).	E-27

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

Possible Cause	Remedy	Page
Your Home City setting is wrong.	Check your Home City setting and correct it, if necessary.	E-14 E-24
Auto Receive is disabled because there is an ongoing elapsed time operation or Auto Start countdown operation in the Stopwatch Mode.	Stop the ongoing Stopwatch Mode operation.	E-35
A countdown timer operation is in progress.	Both Auto Receive and Manual Receive are disabled while a countdown is in progress. If you want to perform Auto Receive, go to the Countdown Timer Mode, stop the timer operation, and then return to the Dual Time Mode.	E-39
The Auto Receive function is turned off.	Turn on Auto Receive.	E-19
The crown is pulled out.	Push the crown back in.	E-3
There is not enough power for signal reception.	Expose the watch to light to charge it.	E-10

E-51

■ 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-14 E-24
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-44

Alarm

■ The alarm does not sound.

Possible Cause	Remedy	Page
Battery power is low.	Expose the watch to light until battery power is back to normal.	E-10
The crown is pulled out.	Push the crown back in.	E-3

Crown Operation

■ Nothing happens when I rotate the crown.

Possible Cause	Remedy	Page
The crown has been left pulled out for more than two minutes (30 minutes in the case of hand home position adjustment) without any operation being performed.	Push the crown back in and then pull it out again to restore normal operation.	E-3

E-52

Specifications

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

Timekeeping: Hour, minutes, seconds, 24-hour, day, day of the week

Calendar system: Full Auto-calendar pre-programmed from the year 2000 to 2099

Other: Home City and World Time City can be assigned one of 29 city codes (29 time zones) and Coordinated Universal Time; Daylight Saving Time (summer time)/Standard Time auto switching

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); Anthorn, 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)

Stopwatch: Measuring capacity: 1:59:59.95"

Measuring unit: 1/20 (0.05) seconds

Measuring modes: Elapsed time, Split time

Other: Auto-Start

Countdown Timer:

Measuring unit: 1 second

Input range: 1 to 120 minutes (1-minute increments)

Alarm: Daily alarm

Other: Power Saving; Low battery alert; Auto Correction of Hand Home Positions

E-53

Power Supply: Solar panel and one rechargeable battery

Approximate battery operating time: 5 months (no exposure to light after a full charge; one signal reception of approximately 4 minutes, and 10 seconds of alarm operation per day)



City Code Table

E-54

L-1

Operation Guide 5286 (OC)

CASIO®

City Code Table

City Code	City	UTC Offset/ 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		
LOS ANGELES (LAX)	Los Angeles	-8		
DENVER (DEN)	Denver	-7		
CHICAGO (CHI)	Chicago	-6		
NEW YORK (NYC)	New York	-5		
SANTIAGO (SCL)	Santiago	-4	24:00, second Saturday in October	24:00, second Saturday in March
RIO	Rio De Janeiro	-3	0:00, third Sunday in October	0:00, third Sunday in February or 0:00, fourth Sunday in February
F. DE NORONHA (FEN)	Fernando de Noronha	-2	None	None
PRAIA (RAI)	Praia	-1		
UTC				
LONDON (LON)	London	0	01:00, last Sunday in March	02:00, last Sunday in October
PARIS (PAR)	Paris	+1	02:00, last Sunday in March	03:00, last Sunday in October
ATHENS (ATH)	Athens	+2	03:00, last Sunday in March	04:00, last Sunday in October
JEDDAH (JED)	Jeddah	+3	None	None
TEHRAN (THR)	Tehran	+3.5	0:00, March 22 or 0:00, March 21	0:00, September 22 or 0:00, September 21

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City Code	City	UTC Offset/ 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)	Noumea	+11	02:00, last Sunday in September	03:00, first Sunday in April
WELLINGTON (WLG)	Wellington	+12		

- Based on data as of June 2012.
- 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.

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