CASIO

Getting Acquainted

Bright Light

Congratulations upon your selection of this CASIO watch. To get the most out of your purchase, be sure to read this manual carefully.

Keep the watch exposed to bright light

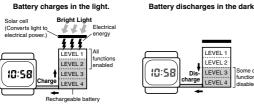
de to bright light
The electricity generated by the solar cell of the watch is stored by a built-in battery. Leaving or using the watch where it is not exposed to light causes the battery to run down.
Make sure the watch is exposed to light as much as possible.
When you are not wearing the watch on your wrist, position the face so it is pointed at a source of bright light.
You should try to keep the watch outside of your sleeve as much as possible. Charging is reduced significantly if the face is only narrially coverad



the face is only partially covered.

The watch continues to operate, even when it is not exposed to light. Leaving the
watch in the dark can cause the battery to run down, which will result in some watch
functions to be disabled. If the battery goes dead, you will have to re-configure watch
settings after recharging. To ensure normal watch operation, be sure to keep it
exposed to light as much as possible.

Battery charges in the light.



General Guide

• Press (C) to change from mode to mode

In any mode (except when a setting screen is on the display), press

 B to illuminate
 the display for about one second.



- The actual level at which some functions are disabled depends on the watch model.
 Frequent display illumination can run down the battery quickly and require charging. The following guidelines give an idea of the charging time required to recover from a single illumination operation.
- Approximately 5 minutes exposure to bright sunlight coming in through a window Approximately 50 minutes exposure to indoor fluorescent lighting Be sure to read "Power Supply" for important information you need to know when exposing the watch to bright light.

If the display of the watch is blank... If the display of the watch is blank, it means that the watch's Power Saving function has turned off the display to conserve power. • See "Power Saving Function" for more information.

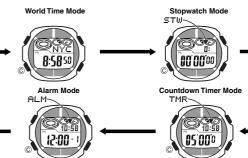
Note that CASIO COMPUTER CO., LTD. assumes no responsibility for any damage or loss suffered by you or any third party arising through the use of this product or its malfunction

About This Manual



· Depending on the model of your watch, display text appears either as dark figures on a light background, or light figures on a dark background. All sample displays in this manual are shown using dark figures on a light background.

- In this manual are shown using dark figures on a light background.
 Button operations are indicated using the letters shown in the illustration.
 Each section of this manual provides you with the information you need to perform operations in each mode. Further details and technical information can be found in the "Deformace" excision. found in the "Reference" section.



Radio-controlled Atomic Timekeeping

This watch receives a time calibration signal and updates its time setting accordingly. • Supported time calibration signals: Germany (Mainflingen), England (Anthorn), United States (Fort Month - Day 00 6-30 5 10:5850

Seconds

Current Time Setting This watch adjusts its time setting automatically in accordance with a time calibration signal. You can also perform a manual procedure to set the time and date, Home Time

- when necessary. The first thing you should do after purchasing this watch is to specify your Home City (the city where you normally will use the watch). For more information, see "To specify your Home City". (Hour : Minutes
- . When using the watch outside the areas covered by the time signal transmitters, you

Collins), Japan

- When using the watch outside the areas covered by the time signal transmitters, you will have to adjust the current time setting manually as required. See "Timekeeping" for more information about manual time settings. The U.S. time calibration signal can be picked up by the watch while in North America. The term "North America" in this manual refers to the area that consists of Canada, the continental United States, and Mexico.



	German/U.	.ĸ. sigi	nai	Japan Signai		U.S. Signai		gnai	
City Code	City Name								
LIS	Lisbon	ATH	Athens	HKG	Hong Kong				Winnipeg
LON	London	MOW	Moscow	BJS	Beijing	ANC	Anchorage	CHI	Chicago
MAD	Madrid			TPE	Taipei	YVR	Vancouver	MIA	Miami
PAR	Paris			SEL	Seoul	LAX		YTO	Toronto
ROM	Rome			TYO	Tokyo	YEA	Edmonton	NYC	New York
BER	Berlin					DEN	Denver	YHZ	Halifax
STO	Stockholm					MEX	Mexico City	YYT	St. Johns

3. Press (A) to exit the setting screen

- Important!
 Normally, your watch should show the correct time as soon as you select your Home City code. If it does not, it should adjust automatically after the next auto receive operation (in the middle of the night). You can also perform manual receive or you
- can set the time manually. The watch will receive the time calibration signal automatically from the applicable
- The watch will receive the time calibration signal automatically from the applicable transmitter (in the middle of the night) and update its settings accordingly. For information about the relationship between city codes and transmitters, see "Home City Codes and Transmitters".
 Under factory default settings, auto receive is turned off for all of the following city codes: MOW (Moscow), HKG (Hong Kong), BJS (Beijing), HNL (Honolulu), and ANC (Anchorage). For details about turning on auto receive for these city codes, see "To turn auto receive on and off" 'To turn auto receive on and off'
- You can disable time signal reception, if you want. See "To turn auto receive on and off" for more information.
 See the maps under "Approximate Reception Ranges" for information about the reception ranges of the watch.
 If you are in an area that does not use Daylight Saving Time (summertime), turn off the DST certifier.
- the DST setting.

Time Calibration Signal Reception

There are two different methods you can use to receive the time calibration signal: auto receive and manual receive.

Auto Receive

With auto receive, the watch receives the time calibration signal automatically up to six times a day. When any auto receive is successful, the remaining auto receive operations are not performed. For more information, see "About Auto Receive". Manual Receive

Manual receive lets you start a time calibration receive operation with the press of a button. For more information, see "To perform manual receive".

Important!

mportant! When getting ready to receive the time calibration signal, position the watch as shown in the nearby illustration, with its 12 o'clock side facing towards a window. This watch is designed to receive a time calibration signal late at night. Because of this, you should place the watch near a window as shown in the illustration when you take it off at night. Make sure there are no metal objects nearby.



· Make sure the watch is facing the right way

CASIO

Proper signal reception can be difficult or even impossible under the conditions listed below

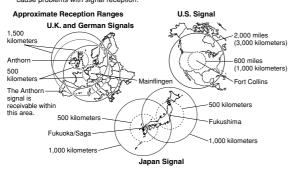


- · Signal reception normally is better at night than during the day.
- Signal reception normally is better at night than during the day.
 Time calibration signal reception takes from two to seven minutes, but in some cases it can take as long as 14 minutes. Take care that you do not perform any button operations or move the watch during this time.
 The time calibration signal the watch will attempt to pick up depends on its current Home City code setting as shown below. If you use the watch in Japan or Europe (each of which has two different transmitter locations), it will try to receive the time calibration signal from one of the transmitter locations), it will transmitter location. If it cannot receive the signal, it will then try to receive the time calibration signal from the other transmitter. transmitter

Home City Codes and Transmitters

Home City Code	Transmitter	Frequency
LIS, LON, MAD, PAR, ROM, BER, STO, ATH, MOW*	Anthorn (England) Mainflingen (Germany)	60.0 kHz 77.5 kHz
HKG*, BJS*, TPE, SEL, TYO	Fukushima (Japan) Fukuoka/Saga (Japan)	40.0 kHz 60.0 kHz
HNL*, ANC*, YVR, LAX, YEA, DEN, MEX, YWG, CHI, MIA, YTO, NYC, YHZ, YYT	Fort Collins, Colorado (the United States)	60.0 kHz

The areas covered by the MOW, HKG, BJS, HNL, and ANC city codes are quite far from the time calibration signal transmitters, and so certain conditions may cause problems with signal reception.



- 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)
- Even when the watch is within the reception range of the transmitters. SOO killometers (310 miles)
 Even when the watch is within the reception range of the transmitter, signal reception will be impossible if the signal is blocked by mountains or other geological formations between the watch and signal source.
 Signal reception is affected by weather, atmospheric conditions, and seasonal the procession.
- changes See the information under "Signal Reception Troubleshooting" if you experience problems with time calibration signal reception

About Auto Receive

The watch receives the time calibration signal automatically up to six times a day. When any auto receive is successful, the remaining auto receive operations are not performed. The reception schedule (calibration times) depends on your currently selected Home City, and whether standard time or Daylight Saving Time is selected for your Home City.

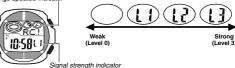
Your Home City	Auto Receive Start Times						
-		1	2	3	4	5	6
LIS, LON	Standard Time	1:00 am	2:00 am	3:00 am	4:00 am	5:00 am	Midnight next day
	Daylight Saving Time	2:00 am	3:00 am	4:00 am	5:00 am	Midnight next day	1:00 am next day
MAD, PAR, ROM, BER, STO	Standard Time	2:00 am	3:00 am	4:00 am	5:00 am	Midnight next day	1:00 am next day
	Daylight Saving Time	3:00 am	4:00 am	5:00 am		1:00 am next day	
ATH	Standard Time	3:00 am	4:00 am	5:00 am	Midnight next day	1:00 am next day	2:00 am next day
	Daylight Saving Time	4:00 am	5:00 am	Midnight next day		2:00 am next day	3:00 am next day
MOW	Standard Time	4:00 am	5:00 am	Midnight next day		2:00 am next day	
	Daylight Saving Time	5:00 am		1:00 am next day		3:00 am next day	
HKG, BJS, TPE, SEL, TYO	Standard Time	Midnight	1:00 am	2:00 am	3:00 am	4:00 am	5:00 am
HNL, ANC, YVR, LAX, YEA, DEN, MEX, YWG, CHI, MIA, YTO, NYC, YHZ, YYT	Standard Time Daylight Saving Time	Midnight	1:00 am	2:00 am	3:00 am	4:00 am	5:00 am

- When a calibration time is reached, the watch will receive the calibration signal only
- When a calibration time is reached, me watch win receive the canonatom signal only
 if it is in either the Timekeeping Mode or World Time Mode. Reception is not
 performed if a calibration time is reached while you are configuring settings.
 Autor receive of the calibration signal is designed to be performed early in the
 morning, while you sleep (provided that the Timekeeping Mode time is set correctly).
 Before going to bed for the night, remove the watch from your wrist, and put it in a
 location where it can receive the scilana leasibly.
 Remember that reception of the calibration signal depends on the current time in the
 Timekeeping Mode.
- Timekeeping Mode. The receive operation will be performed whenever the display shows any one of the calibration times, regardless of whether or not the display time actually is the correct time. Calibration signal reception is disabled while a countdown timer operation is
- in progress

About the Signal Strength Indicator

The signal strength indicator shows the strength of the calibration signal being received. For best reception, be sure to keep the watch in a location where signal strength is strongest. The signal strength indicator is displayed while an auto or manual receive operation is in progress.

Settings updated indicate



- Even in an area where signal strength is strong, it takes about 10 seconds for signal reception to stabilize enough for the receiving indicator to indicate signal strength.
 Use the signal strength indicator as a guide for checking signal strength and for finding the best location for the watch during signal receive operations.
 Following reception of the time calibration signal and calibration of the watch's time calibration is at the determined the set location.
- Pollowing reception of the actionation signal and calibration of the watch's time setting, the settings updated indicator will remain on the display in all modes. The settings updated indicator will not be displayed if signal reception was unsuccessful or after you adjust the current time setting manually.
 The settings updated indicator is displayed only when the watch is able to receive both time and date data successfully. It does not appear when only time data is exceived.
- The settings updated indicator indicates that at least one of the auto calibration signal receive operations was successful. Note, however, that the settings updated indicator disappears from the display each day when the first auto receive operation of the day is performed.

To perform manual receive Receiving

10:58: 1

Receive successful

12:03

Receive failed ERR

90 6-30

| |:[] | 48

6-30

-Receive date

- Enter the Timekeeping Mode.
 Place the watch on a stable surface so its 12 o'clock
- side is facing towards a window. 3. Hold down (D) for about two seconds until **RC!** appears
- Time calibration signal reception takes from two to seven minutes. Take care that you do not perform any button operations or move the watch during this time.
 If the receive operation is successful, the reception date
- and time appear on the display, along with the GET
- and time appear on the display, along with the **GE1** indicator. The watch will enter the Timekeeping Mode if you press (D) or if you do not perform any button operation for about two or three minutes. If the current reception fails but a previous reception was successful, the display shows the previous reception's date and time, and the **ERR** indicator. - : - - indicates that none of the reception operations

were successful. The watch will enter the Timekeeping Mode without changing the time setting if you press D or if you do not perform any button operation for about two or three

minutes.

the Timekeeping Mode, press D to display the Last

nd off

00<

On/Off status

15:03

6-30*

 Hold down (a) for about two seconds until HCV appears on the display.
 The current auto receive setting (on or OFF) will flash.
 Note that the setting screen will not appear if the currently selected Home City is one that does not support time calibration receive on (on) and off (OFF).
 Press (b) to dogle auto receive on (on) and off (OFF).
 Press (b) to exit the setting screen. For information about city codes that support signal receive, see "To specify your Home City".

To check the latest signa reception results Receive date

In the Timekeeping Mode, press (D) to display the Last Signal screen.

When receive is successful, the display shows the time and date that receive was successful. - · - indicates that none of the reception operations were successful.
To return to the Timekeeping Mode, press ^(D).



To turn auto rec In the Timekeeping Mode, press (1) to display the Signal screen. Hold down (A) for about two seconds until RCV





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Signal Reception Troubleshooting

Problem	Probable Cause	What you should do
Cannot perform manual receive.	The watch is not in the Timekeeping Mode. Your current Home City is not one of the following: LIS, LON, MAD, PAR, ROM, BER, STO, ATH, MOW, HKG, BJS, TPE, SEL, TYO, HNL, ANC, YVR, LAX, YEA, DEN, MEX, YWG, CHI, MIA, YTO, NYC, YHZ, or YYT	Enter the Timekeeping Mode and try again. Select Lis, LON, MAD, PAR, ROM, BER, STO, ATH, MOW, HKG, BJS, TPE, SEL, TYO, HNL, ANC, YVR, LAX, YEA, DEN, MEX, YWG, CHI, MIA, YTO, NYC, YHZ, or YYT as your Home City.
Auto receive is turned on, but the settings updated indicator does not appear on the display.	 You changed the time setting manually. The DST setting was changed manually in the World Time Mode. You pressed a button while signal receive was in progress. Even if receive is successful, the settings updated indicator disappears from the display each day when the first auto receive operation of the day is performed. Time data (hour, minutes, seconds) only was received during the last receive operation. The settings updated indicator appears only when time data and date data (year, month, day) are both received. 	 Perform manual signal receive or wait until the next auto signal receive operation is performed. Check to make sure the watch is in a location where it can receive the signal.
Time setting is incorrect following signal reception.	 If the time is one hour off, the DST setting may be incorrect. The Home City code setting is not correct for the area where you are using the watch. 	 Change the DST setting to Auto DST. Select the correct Home City code.

For further information, see "Important!" under "Time Calibration Signal Reception" and "Radio-controlled Atomic Timekeeping Precautions".

World Time

City code ŇY **8:58**50 Current time in

selected city

The World Time Mode shows you the current time in 48 cities (29 time zones) around the world. If the current time shown for a city is wrong, check your Home City time settings and make the necessary All of the operations in this section are performed in the World Time Mode, which you enter by pressing ©.

To view the time in another citv

While in the World Time Mode, press () to scroll eastward through the city codes (time zones).
For full information on city codes, see the "City Code Table"



- To toggle a city code time between Standard Time and Daylight Saving Time
 DST indicator

 Application

 Building Standard Time/Daylight Saving Time
 Sting you want to change.
 Change
 Chang
 - The DST indicator will appear whenever you displayed).
 The DST indicator will appear whenever you display a city code for which Daylight Saving Time is turned on.
 Note that the DST/Standard Time setting affects only the currently displayed city code. Other city codes are not effected.

Stopwatch

Ocie

00 00'00

STW

Mir

- The stopwatch lets you measure elapsed time, split times, and two finishes. It also includes Auto-Start.
- The display range of the stowards is 999 hours, 59 minutes, 59.99 seconds. The stoywards continues to run, restarting from zero after it reaches its limit, until you stop it.

- arrier tr reaches its limit, until you stop it. The stopwatch measurement operation continues even if you exit the Stopwatch Mode. Exiting the Stopwatch Mode while a split time is frozen on the display clears the split time and returns to elapsed time measurement. All of the operations in this section are performed in the Stopwatch Mode, which you enter by pressing ©. 1/100 second

To measure times with the stopwatch

Hours

©	→D	▶D	→0	→A
Start	Stop	Re-start	Stop	Clear
Split Time				
D	→A	►A	→0——	→A
Start	Split	Split release	Stop	Clear
	(SPL displayed)			
Two Finishes				
0	→A	•D	→@	→A
Start	Split	Stop	Split release	Clear
	First runner finishes. Display time of first	Second runner finishes.	Display time of second runner.	
	runner.			

About Auto-Start

With Auto-Start, the watch performs a 5-second countdown, and stopwatch operation starts automatically when the countdown reaches zero. During the final three seconds of the countdown, a beeper sounds with each second.

To use Auto-Start



- While the stopwatch screen is showing all zeros in the Stopwatch Mode, press (Å).
 This displays a 5-second countdown screen.
 To return to the all zeros screen, press (Å) again.
- 2. Press (D) to start the countdown.
- When the countdown reaches zero, a tone sounds and a stopwatch timing operation starts automatically. Pressing ()) while the Auto-Start countdown is in progress starts the stopwatch immediately.

Countdown Timer



Sec

- You can set the countdown timer within a range of one to 60 minutes. An alarm sounds when the countdown
- All of the operations in this section are performed in the Countdown Timer Mode, which you enter by pressing
- 1/10 second

nds

- b set the countdown start time While the countdown start time is on the display in the Countdown Timer Mode, hold down (a) until the current countdown start time starts to flash, which indicates the setting screen.
- If the countdown start time is not displayed, use the procedure under "To use the In a control of the brocked count of the brocked countdown time" to display it.
 While a setting is flashing, use (D) (+) and (B) (-) to change it.
 Press (A) to exit the setting screen.

To use the countdown timer

- Press D while in the Countdown Timer Mode to start the countdown timer.
- Press () while in the Countdown Finite Mode to start the Countdown finite.
 When the end of the countdown is reached, the alarm sounds for 10 seconds or until you stop it by pressing any button. The countdown time is reset automatically to its starting value after the alarm stops.
 Press () while a countdown operation is in progress to pause it. Press () again to resume the countdown operation completely, first pause it (by pressing ()), and then press (). This returns the countdown time to its starting value.

Alarms

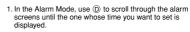


- You can set five independent Daily Alarms. When an alarm is turned on, the alarm tone sounds when the alarm time is reached. One of the alarms can be configured as a snooze alarm or a one-time alarm, while the other four are one-time alarms.
- One-time alarms. You can also turn on an Hourly Time Signal that causes the watch to beep twice every hour on the hour. There are five alarm screens numbered through **5**. The hourly time signal screen is indicated by :**30** When you enter the Alarm Mode, the screen you were individual back with the wind the screen you were
- viewing when you last exited the mode appears first. All of the operations in this section are performed in the
- Alarm Mode, which you enter by pressing ©

Alarm time (Hours : Minutes) To set an alarm time

Alarm n imhe







You can configure Alarm ‡ as a snooze alarm or a one-time alarm. Alarms 2 through 5 can be used as one-time alarms only.
The snooze alarm repeats every five minutes.
After you select an alarm, hold down @ until the hour setting of the alarm time

- After you select an adam, note down & with the hole setting of the adam time starts to flash. This indicates the setting screen.
 Press © to move the flashing between the hour and minute settings.
 While a setting is flashing, use (D) (+) and (B) (-) to change it.
 When setting the alarm time using the 12-hour format, take care to set the time correctly as a.m. (no indicator) or p.m. (P indicator).
 Press (a) to exit the setting screen.

Alarm Operation

The alarm sounds at the preset time for about 10 seconds. In the case of the snooze alarm, the alarm operation is performed a total of seven times, every five minutes, or until you turn the alarm off or change it to a one-time alarm.

- Note Pressing any button stops the alarm tone operation. Performing any one of the following operations during a 5-minute interval between
- snoze alarms cancels the current snoze alarm operation. Displaying the Timekeeping Mode setting screen Displaying the Alarm **f** setting screen

To test the alarm In the Alarm Mode, hold down (D) to sound the alarm.

To turn Alarms 2 through 5 on and off 1. In the Alarm Mode, use D to select a one-time alarm The number 2 through (5).
 Press (A) to toggle the displayed alarm on and off.
 Turning on a one-time alarm (2 through 5) displays the one-time alarm on indicator on its screen.
 The one-time alarm on indicator is displayed in all made.

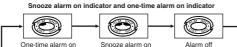
- 6:00-1 modes

 If any alarm is on, the one-time alarm on indicator is One-time alarm on indicator shown on the display in all modes.

To select the operation of Alarm (

In the Alarm Mode, use (D) to select Alarm :

2. Press (A) to cycle through the available settings in the sequence shown below.



. The applicable alarm on indicator is displayed in all modes when an alarm is turned

on

OIL.
The snooze alarm on indicator flashes during the 5-minute intervals between alarms.
Displaying the Alarm t setting screen while the snooze alarm is turned on automatically turns off the snooze alarm (making Alarm t a one-time alarm).

Hourly time signal on indicator

To turn the hourly time signal on and off Hourly time signal on 1. In the Alarm Mode, use (1) to select the Hourly Time In the Alarm Mode, use (0) to select the Houry Time Signal (:GO).
 Press (A) to toggle it on and off.
 Turning on the Hourly Time Signal displays the hourly time signal on indicator on its screen.
 The hourly time signal on indicator is displayed in all modes when the Hourly Time Signal is turned on.

Illumination

 \geq 10:51 :00



The watch has an EL (electro-luminescent) panel that causes the entire display to glow for easy reading in the dark See "Illumination Precautions" for other important information.

To turn on illumination

In any mode (except when a setting is on the display), press (B) to illuminate the display for about one second.

Power Supply

This watch is equipped with a solar cell and a special rechargeable battery (secondary battery) that is charged by the electrical power produced by the solar cell. The illustration shown below shows how you should position the watch for charging.

Example: Orient the watch so its face

- Example: Orient the watch so its face is pointing at a light source. The illustration shows how to position a watch with a resin band. Note that charging efficiency drops when any part of the solar cell is
- when any part of the solar cell is blocked by clothing, etc. You should try to keep the watch outside of your sleeve as much as possible. Charging is reduced significantly if the face is only partially covered.

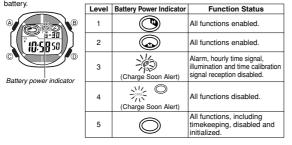
90 6-30 10:58 so

0

Solar cel

- Important!
 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 rechargeable battery power to run down. Make sure that the watch is exposed to bright light whenever
- power to run down. Make sure that the watch is exposed to bright light whenever possible. This watch uses a special rechargeable battery to store power produced by the solar cell, so regular battery replacement is not required. However, after very long use, the rechargeable battery may lose its ability to achieve a full charge. If you experience problems getting the special rechargeable battery to charge fully, contact your dealer or CASIO distributor about having it replaced. Never try to remove or replace the watch's special battery yourself. Use of the wrong type of battery can damage the watch. The current time and all other settings return to their initial factory defaults whenever battery power drops to Level 5 and when you have the battery replaced. Turn on the watch's Dever Saving function and keep it in an area normally exposed to bright light when storing it for long periods. This helps to keep the rechargeable battery trom going dead.

Battery Power Indicator and Charge Indicator The battery power indicator shows you the current power level of the rechargeable battery.



- The LQW flashes on the display in the Timekeeping Mode when battery is at Level 3. The LQW at Level 3 and the flashing charge indicator (**CHG**) at Level 4 tell you that battery power is very low, and that exposure to bright light for charging is required as soon as possible.
- soon as possible. At Level 5, all functions are disabled and settings return to their initial factory defaults. Functions are enabled once again after the rechargeable battery is charged, but you need to set the time and date, after the battery reaches Level 4 (indicated by the flashing charge indicator (CHG) from Level 5. You will not be able to configure any of the other settings until the battery reaches Level 3 (no charge indicated by the restrings to level the battery reaches Level 3 (no charge
- to configure any of the other settings until the battery reaches Level 3 (no charge indicator) after dropping to Level 5.
 Leaving the watch in direct sunlight or some other very strong light source can cause the battery power indicator to show a reading that is momentarily higher than the actual battery level. The correct battery power indicator should appear after a few minutes.
 If you use the illumination or alarms a number of times during a short period, the charge indicator (CHG) flashes and the following operations become disabled until battery battery power recover. battery power recovers
 - Illumination
 - Beeper tone

Time calibration signal reception After some time, battery power will recover and the charge indicator (CHG) will disappear, indicating that the above functions are enabled again.

Charging Precautions

Charging recautions Certain charging conditions can cause the watch to become very hot. Avoid leaving the watch in the areas described below whenever charging its rechargeable battery. Also note that allowing the watch to become very hot can cause its liquid crystal display to black out. The appearance of the LCD should become normal again when the watch returns to a lower temperature.

Warning!

Warning:
Leaving the watch in bright light to charge its rechargeable battery 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

Charging Guide

After a full charge, timekeeping remains enabled for up to about nine months. • The following table shows the amount of time the watch needs to be exposed to light each day in order to generate enough power for normal daily operations

Exposure Level (Brightness)	Approximate Exposure Time
,	- ·· ·
Outdoor Sunlight (50,000 lux)	5 minutes
Sunlight Through a Window (10,000 lux)	24 minutes
Daylight Through a Window on a Cloudy Day (5,000 lux)	48 minutes
Indoor Fluorescent Lighting (500 lux)	8 hours

For details about the battery operating time and daily operating conditions, see the "Power Supply" section of the Specifications.
 Stable operation is promoted by frequent exposure to light.

Recovery Times

The table below shows the amount exposure that is required to take the battery from one level to the next.

Exposure Level	Approximate Exposure Time					
(Brightness)	Level 5	Level 4	Level 3	Level 2	Level 1	
Outdoor Sunlight (50,000 lux)		2 hours		33 hours	9 hours	
Sunlight Through a Window (10,000 lux)	6 hours		124 hours	34 hours		
Daylight Through a Window on a Cloudy Day (5,000 lux)		9 hours		201 hours	56 hours	
Indoor Fluorescent Lighting (500 lux)		95 hours				

The above exposure time values are all for reference only. Actual required exposure times depend on lighting conditions.

Timekeeping

Date – Day Month

- Use the Timekeeping Mode to set and view the current time and date. When setting the time, you can also configure settings for the 12/24-hour format, and power saving on/off, and you can specify the screens that are displayed in the Timekeeping Mode. In the Timekeeping Mode, you can press (A) to toodle the display contents as show
 - eping Mode, you can press (A) to toggle the display contents as shown Day of the Week

Day of week Press (A) MON (6-30)

 \bullet Pressing D in the Timekeeping Mode will display the Last Signal screen.



CASIO

CASIO

Setting the Time and Date Manually

Setting the Time and Date Manually Make sure you select your Home City code before you change the current time and date settings. World Time Mode times are all displayed in accordance with the Timekeeping Mode settings. Because of this, World Time Mode times will not be correct if you do not select the proper Home City code before setting the time and date in the Timekeeping Mode.

10:5/8 50



City Code	DST	► 12/24-Hour Format	Seconds	Hour
Power Saving	Day 🗲	Month	Year 🗲	Minutes 🗲

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

Screen:	To do this:	Do this:
TYO	Change the city code	Use (D) (east) and (B) (west).
AT S	Cycle between auto DST (デエ), Standard Time (ロデデ), and Daylight Saving Time (ロN)	Press D.
12H	Toggle between 12-hour (1 ≥H) and 24-hour (≥4H) timekeeping	Press D.
50	Reset the seconds to	Press D.
' <i>10:58</i>	Change the hour or minutes	Use (D) (+) and (B) (-).
6-30	Change the year, month, or day	
20 09		
ON	Toggle Power Saving on (<i>DN</i>) and off (<i>DFF</i>)	Press D.
<u></u>		

See "City Code Table" for a complete list of available city codes.
 Auto DST (PT) can be selected only while LIS, LON, MAD, PAR, ROM, BER, STO, ATH, MOW, HKG, BJS, TPE, SEL, TYO, HNL, ANC, YVR, LAX, YEA, DEN, MEX, YWG, CHI, MIA, YTO, NYC, YHZ, or YYT is selected as the Home City code. For more information, see "Daylight Saving Time (DST)" below.
 For information about settings other than the time and date, see the following. *Power Saving: Power Saving Function* Press (A) to exit the setting screen.

Daylight Saving Time (DST)

Daylight Saving Time (bor) 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. The time calibration signals transmitted from Mainflingen (Germany), Anthorn

The time calibration signals transmitted from Mainflingen (Germany), Anthorn (England), or Fort Collins (the United States) include both Standard Time and DST data. When the Auto DST setting is turned on, the watch switches between Standard Time and DST (summer time) automatically in accordance with the signals.
The time calibration signals transmitted from Fukushima and Fukuoka/Saga (Japan) do not include summer time data.
The default DST setting is Auto DST (AT) whenever you select LIS, LON, MAD, PAR, ROM, BER, STO, ATH, MOW, HKG, BJS, TPE, SEL, TYO, HNL, ANC, YVR, LAX, YEA, DEN, MEX, YWG, CHI, MIA, YTO, NYC, YHZ, or YYT as your Home City code

- code
- If you experience problems receiving the time calibration signal in your area, it probably is best to switch between Standard Time and Daylight Saving Time (summer time) manually.

To change the Daylight Saving Time (summer time) setting 1. In the Timekeeping Mode, hold down (A) until the city code starts to flash, which

indicates the setting screen. 2. Press © and the DST setting screen appears.

to cycle through t		DST settings in th	e se	equence shown be	elow
Auto DST (🛱 🕇)	⊢	DST off (OFF)	⊢	DST on (ON)	

4. When the setting you want is selected, press (A) to exit the setting screen.
The **DST** indicator appears to indicate that Daylight Saving Time is turned on.

Reference

3. Us

This section contains more detailed and technical information about watch operation. It also contains important precautions and notes about the various features and functions of this watch

Button Operation Tone



Mute indicator

The button operation tone sounds any time you press one of the watch's buttons. You can turn the button operation tone on or off as desired. Even if you turn off the button operation tone, the alarm, Hourly Time Signal, and Countdown Timer Mode alarm

all operate normally.

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

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

Power Saving Function



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

Pou saving indicator

Elapsed Time in Dark	Display	Operation
60 to 70 minutes	Blank, with Power Saving indicator (PS) flashing	All functions enabled, except for the display
6 or 7 days	Blank, with Power Saving indicator (PS) not flashing	Beeper tone, illumination, and display are disabled.

Wearing the watch inside the sleeve of clothing can cause it to enter the sleep state.
The watch will not enter the sleep state between 6:00 AM and 9:59 PM. If the watch is already in the sleep state when 6:00 AM arrives, however, it will remain in the sleep state

On/Off status

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To recover from the sleep state
Perform any one of the following operations.
Move the watch to a well-lit area.
Press any button.

To turn Power Saving on and off

- In the Timekeeping Mode, hold down (a) until the city code starts to flash, which indicates the setting screen. 2. Press © nine times until the Power Saving on/off
- screen appears 3. Press D to toggle Power Saving on (ON) and off
- (OFF). 4. Press (A) to exit the setting screen
- The Power Saving indicator (**PS**) is on the display in all modes while Power Saving is turned on.

Auto Return Features

- If you leave the watch in the Alarm Mode for two or three minutes without performing
- If you leave the watch in the timekeeping Mode automatically.
 If you leave the watch with a flashing setting on the display for two or three minutes without performing any operation, the watch exits the setting screen automatically.

Scrolling

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

Initial Screens

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

Radio-controlled Atomic Timekeeping Precautions

- Strong electrostatic charge can result in the wrong time being set.
 The time calibration signal is bounced off the ionosphere. Because of this, such factors as changes in the reflectivity of the ionosphere, as well as movement of the ionosphere to higher altitudes due to seasonal atmospheric changes or the time of day may change the reception range of the signal and make reception temporarily in the r impossible
- Even if the time calibration signal is received properly, certain conditions can cause
- Even if the time calibration signal is received properly, certain conditions can cause the time setting to be off by up to one second.
 The current time setting in accordance with the time calibration signal takes priority over any time settings you make.
 The watch is designed to update the date and day of the week automatically for the period January 1, 2000 to December 31, 2099. Setting of the date by a time calibration signal cannot be performed starting from January 1, 2100.
- This watch can receive signals that differentiate between leap years and non-leap
- This watch can receive signed to receive both time data (hour, minutes, seconds) and date data (year, month, day), certain signal conditions can limit reception to time data only.
 Normally, the signal reception date shown by the Last Signal screen is the date data included in the received time calibration signal. When only time data is received, however, the Last Signal screen shows the date as kept in the Timekeeping Mode at the time of signal reception.
 If you are in an area where proper time calibration signal reception or if the time watch keeps time with the precision noted in "Specifications".
 If you have problems with proper time calibration signal reception or if the time setting is wrong after signal reception, check your current city code, DST (summer time), and auto receive settings.

Timekeeping

- Timekeeping
 Resetting the seconds to 00 while the current count is in the range of 30 to 59 causes the minutes to be increased by 1. In the range of 00 to 29, the seconds are reset to 00 without changing the minutes.
 The day of the week is displayed automatically in accordance with the date (year, month, and day) settings.
 The year can be set in the range of 2000 to 2099.
 The way offs 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 avoen a fate, you have the watch's battery rendered or when battery rower drops to it except after you have the watch's battery replaced or when battery power drops to Level 5
- Development of the Timekeeping Mode and all the city codes of the World Time Mode are calculated in accordance with each city's UTC differential.
 The UTC differential is a value that indicates the time difference between a reference point in Greenwich, England and the time zone where a city is located.
- . The letters "UTC" is the abbreviation for "Universal Time Coordinated", which is the
- ine retrers "UTC" is the abbreviation for "Universal Time Coordinated", which is the world-wide scientific standard of timekeeping. It is based upon carefully maintained atomic (cesium) clocks that keep time accurately to within microseconds. Leap seconds are added or subtracted as necessary to keep UTC in sync with the Earth's rotation.

CASIO

- 12-hour/24-hour Timekeeping Formats The 12-hour/24-hour timekeeping format you select in the Timekeeping Mode is also
- With the 12-hour format, the PM indicator (P) appears on the display for times in the range of noon to 11:59 p.m. and no indicator appears for times in the range of midnight to 11:59 a.m.
 With the 24-hour format, times are displayed in the range of 0:00 to 23:59, without any indicator
- any indicator

Illumination Precautions

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

Specifications

- Specifications

 Accuracy at normal temperature: ± 30 seconds a month (with no signal calibration)

 Timekeeping: Hour, minutes, seconds, p.m. (P), month, day, day of the week

 Time system: Switchable between 12-hour and 24-hour formats

 Calendar system: Suitchable between 12-hour and 24-hour formats

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

 Other: Home city code (can be assigned one of 48 city codes); Daylight

 Saving Time (summer time)/Standard Time

 Time Calibration Signal Reception: Auto receive up to six times a day (remaining auto receives cancelled as soon as one is successful); Manual Receive; Last Signal screen

 Receivable Time Calibration Signals: Mainflingen, Germany (Call Sign: DCF77, Frequency: 77.5 kHz); Anthorn, England (Call Sign: MSF, Frequency: 60.0 kHz); Fickushima, Japan (Call Sign: JMY, Frequency: 40.0 kHz); Fickushima, Japan (Call Sign: JMY, Frequency: 60.0 kHz); Fickushima, Japan (Call Sign: JJY, Frequency: 60.0 kHz); World Time: 48 cities (29 time zones)

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

 Stopwatch

Stopwatch

- Measuring unit: 1/100 second Measuring capacity: 999:59' 59.99"
 - Measuring modes: Elapsed time, split time, two finishes Other: Auto-Start

Other: Auto-Start Countdown Timer Measuring unit: 1/10 second Input range: 1 to 60 minutes (1-minute increments) Alarms: 5 daily alarma (Four one-time alarms; one snooze/one-time alarm); Hourly Time Signal termin termination of the start of the st

Illumination: EL (electronic-luminescent panel) Other: Battery power indicator; Power Saving; Button operation tone on/off

- Power Supply: Solar cell and a rechargeable battery
 Approximate Battery Operating Time
 9 months (from full charge to Level 4 when the watch is not exposed to light)
 under the following conditions:
 Display on 18 hours per day, sleep state 6 hours per day
 1 illumination operation (1.5 seconds) per day
 10 seconds of alarm operation per day
 10 minutes of signal reception per day

UTC Offeet/

Frequent use of illumination can shorten battery operating time.

City Code Table

City

PPG Pago Pago -11 HNL Honolulu -10 ANC Anchorage -9 YVR Vancouver -8 YEA Edmonton -7 DEN Derver -7 MKX Mexico City -9 YVG Winnipeg -6 CHI Chicago -6 CHI Chicago -6 CKS Caracas -4 YYT St. Johns -3.5 RiO Rio De Janeiro -3 RAI Praia -1 LIS Lisbon -1 LON London 0 MAD Madrid -4 PAR Paris -1 STO Stockholm -1 ATH Athens +2 JRS Jeddah +3 JED Jøddah +3 THR Tehran +3.5 DKB Dubai +4	City Code	City	UTC Offset/ GMT Differential
ANC Anchorage -9 VYR Vancouver -8 VYA Los Angeles -8 VEA Edmonton -7 DEN Derver -7 MEX Mexico City -7 YWG Winnipeg -6 CHI Chicago -6 MIA Mami -5 NYCO New York CCS* CCS* Caracas -4 YYT St. Johns -3.5 RiO Rio De Janeiro -3 RAI Praia -1 Lisborn 0 MAD MAD Madrid -3 FR Berlin 510 Stockholm -4 +1 BER Berlin -4 JFS Jerusalem -4 MW Moscow +3 JED Jeddah +4 KBL Kazhu +4,5 KBL Kazhu +4,5	PPG	Pago Pago	
YYR Vancouver LAX -8 LAX Los Angeles -8 YEA Edmonton -7 DEN Denver -7 MEX Mexico City -6 YWG Winnipeg -6 CHI Chicago -6 MIA Miami -7 YVG Winnipeg -6 CHI Chicago -6 MIA Miami -7 VTO Toronto -5 NYC New York -6 CCS* Caracas -4 YYT St. Johns -3.5 RIO Rio De Janeiro -3 RAI Praia -1 LIS Lisbon 0 LON London 0 MAD Madrid -4 PAR Paris -1 BER Berlin STO STO Stockholm -1 -1 ATH Athens -4	HNL		-10
LAX Los Angeles -3 VEA Edmonton -7 DEN Derver -7 MEX Mexico City -7 YWG Winnipeg -6 CHI Chicago -6 MIA Mamini -5 YOC New York CCS* CCS* Caracas -4 YYT St. Johns -3.5 RIO Rio De Janeiro -3 RAI Praia -1 LON London 0 LON London 0 CAN Berlin 510 STO Stockholm -41 ATH Athens -3.5 GAI Cairc +2 JRS Jerusalem +3 MOW Moscow +3 JED Jeddah +4 KBL Kabul +4,5 KH Karachi +5	ANC	Anchorage	-9
LAX LoS Angeles	YVR		0
DEN Derwer -/ MEX Mexico City -/ YWG Winnipeg -6 CHI Chicago - YTO Toronto -5 NYC New York CCS* CCS* Caracas -4 YYT St Johns -3.5 RIO Rio De Janeiro -3 RAI Praia -1 LIS Lisbon 0 LON London 0 STO Stockholm +1 AFB Jerusalem +3 JFB Jerusalem +3 MOW Woscow +3 JED Jeddah +4 KBL Kabul +4,5 KH Karachi +45	LAX		-0
DEN Derver MEX Mexico City VWG Winnipeg CHI Chicago MIA Mami VTO Toronto Status -5 VTO New York CCS Carticas -4 YTT St.Jonns -3.5 RIO Rio Be Janeiro JRIO Piai US Lisbon UNA Madrid MAD Madrid MAD Madrid Afth Athens CAI Cairc JBS Jerusalem MOW Moscow JED Jeddah HR Pairs JED Jeddah JBS Dubai HK Kabul KBL Kabul K4.5	YEA	Edmonton	7
YWG Winnipeg -6 CHI Chicago -5 YTO Toronto -5 NYC New York -6 CCS* Caracas -4 YHZ Halfax -3.5 RIO Rio De Janeiro -3 RAI Praia -1 LS Lisbon 0 LON London 0 MAD Madrid PAR PAR Paris +1 STO Stockholm -3.5 ATH Athens -4 JFS Jerusalem +1 MOW Moscow +3 JED Jeddah +4 KBL Kabul +4,5 KH Karachi +4,5	DEN		-/
CHI Chicago MIA Miami YTO Toronto YTO Toronto Status -5 YYC New York CCS* Caracas YHZ Halfax YYT St. Johns St. Johns -3.5 RIO Rio De Janeiro LIS Lisbon LON London MAD Madrid PAR Paris ROM Rome #1 BER Berlin STO Stockholm Athens CAI Cairc JBS Jerusalem MOW Moscow JED Jeddah H4 Kabul KBL Kabul KH Karachi +5 Delhi			
MIA Miami YTO Toronto -5 NYC New York CCS* CCS* Caracas -4 YHZ Halfax -4 YHZ St Johns -3.5 RIO Rio De Janeiro -3 RAI Praia -1 Lisbon 0 0 MAD Madrid Madrid PAR Paris -1 STO Stockholm +1 BER Berlin STO STO Stockholm +2 JRS Jerusalem +3 THR Athens -4 GAI Cairo +2 JRS Jerusalem +3 THR Tehran +3.5 DXB Dubai +4 KBL Kazbui +4.5 KHL Kazchi +5	YWG	Winnipeg	-6
YTC Toronto -5 NYC New York -4 YHZ Halfax -4 YYT St. Johns -3.5 RiO Rio De Janeiro -3 RiO Rio De Janeiro -1 LIS Lisbon 0 LON London 0 MAD Madrid PAR Paris Rome +1 BER Berlin STO STO Stockholm -4 ATH Athens -1 CAI Cairo +2 JRS Jerusalem MOW MOW Moscow +3 THR Tehran +3.5 DXB Dubal +4 KBL Kazbul +4.5 KHI Kazchi +5.5	CHI	Chicago	1
NYC New York CCS* Caracas VHZ Halfax -4 YYT St. Johns -3.5 RIO Rio De Janeiro -3 RAI Praia -1 LON London 0 MAD Madrid Madrid PAR Paris -1 ROM Rome +1 BER Berlin StOckholm ATH Athens -2 JRS Jerusalem +3 MOW Moscow +3 JED Jeddah +4 KBL Kabul +4.5 KHL Karachi +5	MIA		
CCS* Caracas -4 YHZ Halfax -4 YYT St. Johns -3.5 RiO Rio De Janeiro -3 RAI Praia -1 LIS Lisbon 0 MAD Madrid Madrid PAR Paris RG ROM Rome +1 BER Berlin STO STO Stockholm -4 ATH Athens -7 CAI Cairo +2 JRS Jerusalem +3 MOW Moscow +3 JED Jeddah +4 KBL Kabul +4,5 KH Karachi +5 DEL Delhi +5.5		Toronto	-5
YHZ Halfax -4 YYT SL Johns -3.5 RIO Rio De Janeiro -3 RI Praia -1 LIS Lisbon 0 MAD Madrid Paria PAR Paria +1 BER Berlin +1 STO Stockholm +2 JRS Jerusalem +3 MOW Moscow +3 JER Debai +4 KBL Kabul +4.5 KHL Karachi +5			1
YHZ Halitax YYT St. Johns -3.5 RIO Rio be Janeiro -3 RIAI Prála -1 LIS Lisbon 0 LON London 0 LON London 0 KIAI Prála -1 LIS Lisbon 0 LON London 0 KIA Prála -1 ROM Molid -1 ROM Pária -1 STO Stockholm -1 ATH Athens	CCS*		4
RiO Rio De Janeiro -3 RAI Praia -1 US Lisbon 0 LON London 0 MAD Madrid Paris PAR Paris +1 BER Berlin +1 CAI Cairo +2 JRS Jerusalem +3 MOW Moscow +3 JED Jeddah +4 KBL Kabul +4.5 KHL Karachi +5 DEL Delhi +5.5			
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LIS Lisbon 0 LON London 0 MAD Madrid PAR PAR Paris +1 BER Berlin +1 Stockholm Athens - ATH Athens - JRS Jerusalem +2 JRS Jerusalem +3 THR Tehran +3.5 DXB Dubai +4 KBL Kabul +4.5 KHL Karachi +5 DEL Delhi +5.5			-3
LON London 0 MAD Madrid Marid PAR Paris Rome BER Berlin 1 STO Stockholm +1 ATH Athens - CAI Cairo +2 JRS Jerusalem MOW MOW Moscow +3 JED Jeddah +4 KBL Kabul +4,5 KHL Karachi +5 DEL Delhi +5,5			-1
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PAR Paris ROM Rome +1 BER Berlin 570 Stockholm ATH Athens - - CAI Cairo +2 - JRS Jerusalem +3 - MOW Moscow +3 - JED Jeddah +4 - DXB Dubai +4,5 - KBL Kabul +4,5 - KH Karachi +5 - DEL Delhi +5.5 -	LON		
FOM Rome +1 BER Berlin +1 STO Stockholm +1 ATH Athens +2 JRS Jerusalem +2 MOW Moscow +3 JED Jeddah +3.5 DXB Dubai +4 KBL Kabul +4.5 KHI Karachi +5.5			
BER Berlin STO Stockholm ATH Athens CAI Cairo JRS Jerusalem MOW Moscow JED Jeddah THR Tehran DXB Dubai +4.5 KBL KBL Kazchi +5.5 Delhi	PAR		1
STO Stockholm ATH Athens CAI Cairo JRS Jerusalem MOW Moscow JED Jeddah THR Tehran DXB Dubai +4 KBL Kabul +4.5 KHI Karachi 4-5.5 Delhi			+1
ATH Athens CAI Cairo +2 JRS Jerusalem +3 MOW Moscow +3 THR Tehran +3.5 DXB Dubai +4.4 KBL Kabul +4.5 KHI Karachi +5.5			1
CAI Cairo +2 JRS Jerusalem - MOW Moscow - - JED Jeddah +3 - THR Tehran +3.5 - DXB Dubai +4 - KBL Kabul +4.5 - KHI Karachi +5 - DEL Delhi +5.5 -			1
JRS Jerusalem MOW Moscow +3 JED Jeddah +3 THR Tohran +3,5 DXB Dubai +4,4 KBL Kabul +4,5 KHL Karachi +5 DEL Delhil +5,5			
MOW Moscow +3 JED Jeddah +3 THR Tehran +3.5 DXB Dubai +4.4 KBL Kabul +4.5 KHI Karachi +5.5			+2
JĒD Jeddah +3 THR Tehran +3,5 DXB Dubai +4 KBL Kabul +4,5 KHI Karachi +5 DEL Delhi +5,5			1
JED Jeddan THR Tehran +3.5 DXB Dubai +4 KBL Kabul +4,5 KHI Karachi +5 DEL Delhi +5,5			. 2
DXB Dubai +4 KBL Kabul +4.5 KHI Karachi +5 DEL Delhi +5.5			
KBL Kabul +4.5 KHI Karachi +5 DEL Delhi +5.5			+3.5
KHI Karachi +5 DEL Delhi +5.5			
KHI Karachi +5 DEL Delhi +5.5			+4.5
			+5
DAC Dhaka +6			+5.5
	DAC	Dhaka	+6

City Code	City	UTC Offset/ GMT Differential
RGN	Yangon	+6.5
BKK	Bangkok	+7
HKG	Hong Kong	
BJS	Beijing	+8
TPE	Taipei	
SEL	Seoul	+9
TYO	Tokyo	
ADL	Adelaide	+9.5
GUM	Guam	+10
SYD	Sydney	+10
NOU	Noumea	+11
WIG	Wellington	+12

- Based on data as of June 2008.
 The rules governing global times (UTC offset and GMT differential) and summer time are determined by each individual country.
 In December 2007, Venezuela changed in offset from 416, 45, Note however.
- its offset from -4 to -4.5. Note, however, that this watch displays an offset of -4 (the old offset) for the CCS (Caracas, Venezuela) city code.