CASIO

Getting Acquainted

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 The electricity generated by the solar cell of the watch is stored by a rechargeable battery. Leaving or using the



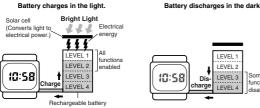
watch where it is not exposed to light causes the battery to run down. Make sure the watch is exposed to light as much as possible When ye When you are not wearing the watch on your wrist, position the face so it is pointed at a source of bright



You should try to keep the watch outside of your sleeve
Traile Charging is reduced significantly is as much as possible. Charging is reduced significantly if the face is covered only partially.

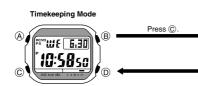
. The watch continues to operate, even when it is not exposed to light. Leaving the The watch continues to operate, even when it is not exposed to ignit. Leaving the watch in the dark can cause the battery to run down, which will result in some watch functions to be disabled. If the battery goes dead, 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 © to change from mode to mode.
 In any mode (except when a setting screen is on the display), press (B) to illuminate the display.



Radio-controlled Atomic Timekeeping

This watch receives a time calibration signal and updates its time setting accordingly. • This watch is designed to pick up the time calibration signals transmitted in Germany (Mainflingen), England (Anthorn), the United States (Fort Collins), China (Shangqiu), and Japan (Fukushima, Fukuoka/Saga).

Current Time Setting

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

- signal. You also can perform a manual procedure to set the time and date, 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".
 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.
 As of December 2009, China does not use Daylight Saving Time (DST). If China does go to the Daylight Saving Time system in the future, some functions of this watch may no longer operate correctly.
 Using this watch in a country covered by a time calibration that is different from the countries it supports may result in incorrect time indication due to local application of summer time, etc.

- Hour : Minutes Seconds

 - - HKG, BJS, TPE : Hong Kong, Beijing, Taipei

 - ANC : Anchorage YVR, LAX: Vancouver, Los Angeles YEA, DEN: Edmonton, Denver

 - MEX, CHI : Mexico City, Chicago MIA, YTO, NYC: Miami, Toronto, New York
 - : Halifax : St.Johns YHZ

- 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 about 8 hours 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.

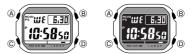
If the display of the watch is blank... If the display of the watch is blank, it means that the watch's Power Saving function has turned off the display to conserve power. • See "Power Saving Function" for more information.

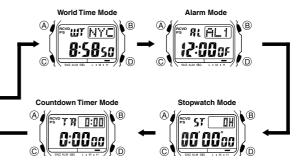
Note that CASIO COMPUTER CO., LTD, assumes no responsibility for any damage or loss suffered by you or any third party arising through the use of this product of

About This Manual

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. 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 "Reference" section.





- 8. Press (A) to exit the setting screen. 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 also can perform manual receive or you
- operation (in the middle of the night). You also can perform manual receive of you can set the time manually.
 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 "Important!" under "Time Calibration Signal Reception" and "Transmitters".
 See the maps under "Approximate Reception Ranges" for information about the reception received the watch
- reception ranges of the watch.
- Proceedings of the watch.
 You can disable time signal reception, if you want. See "To turn auto receive on and off" for more information.
 Under factory default settings, auto receive is turned off for all of the following city codes: MOW (Moscow), HNL (Honolulu), and ANC (Anchorage). For details about turning on auto receive for these city codes, see "To turn auto receive on and off".

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 (five times a day for the Chinese calibration signal automatically up to 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 pointing towards a window. This watch is designed to receive a time calibration signal late at hight. 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

SEL, TYO : Seoul, Tokyo HNL : Honolulu ANC : Anchorage



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 ne City code setting as shown below

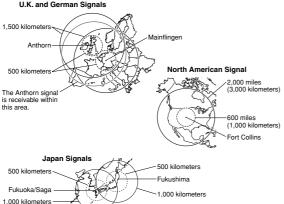
Home City Code	Transmitter	Frequency
LIS, LON, MAD, PAR, ROM,	Anthorn (England)	60.0 kHz
BER, STO, ATH, MOW*	Mainflingen (Germany)	77.5 kHz
HKG, BJS	Shangqiu City (China)	68.5 kHz
TPE, SEL, TYO	Fukushima (Japan)	40.0 kHz
	Fukuoka/Saga (Japan)	60.0 kHz
HNL*, ANC*, YVR, LAX, YEA, DEN, MEX, CHI, MIA, YTO, NYC, YHZ, YYT	Fort Collins, Colorado (the United States)	60.0 kHz

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

Calibration signal reception is disabled while a countdown timer operation is in progress.

Approximate Reception Ranges





Signals are receivable in the Taiwan area when reception conditions are good.



Signal reception may not be possible at the distances noted below during certain times of the year or day. Radio interference also may cause problems with reception. Mainflingen (Germany) or Anthorn (England) transmitters: 500 kilometers (310 miles) Fort Collins (United States) transmitter: 600 miles (1 000 kilometers)

- Fuck shima of Fuckoka/Saga (Japan) transmitter. Sou filmes (1,000 kilonteers) Fuckshima of Fuckoka/Saga (Japan) transmitters: SoO kilometers (310 miles) Shangqiu (China) transmitter: 1,500 kilometers (910 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
- Signal reception acception for the information under "Signal Reception Troubleshooting" if you experience problems with time calibration signal reception.

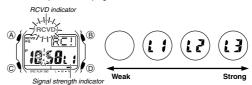
About Auto Receive

The watch receives the time calibration signal automatically up to six times a day (five times a day for the Chinese calibration signal). 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.

	Veur Lleme Oitu	Auto Receive Start Times								
	Your Home City	1	2	3	4	5	6			
LIS LON	Standard Time Daylight Saving Time	1:00 am 2:00 am	2:00 am 3:00 am	3:00 am 4:00 am	4:00 am 5:00 am	5:00 am Midnight*	Midnight* 1:00 am*			
MAD PAR ROM BER STO	Standard Time Daylight Saving Time	2:00 am 3:00 am	3:00 am 4:00 am	4:00 am 5:00 am	5:00 am Midnight*	Midnight* 1:00 am*	1:00 am* 2:00 am*			
ATH	Standard Time Daylight Saving Time	3:00 am 4:00 am	4:00 am 5:00 am	5:00 am Midnight*	Midnight* 1:00 am*	1:00 am* 2:00 am*	2:00 am* 3:00 am*			
MOW	Standard Time Daylight Saving Time	4:00 am 5:00 am	5:00 am Midnight*	Midnight* 1:00 am*	1:00 am* 2:00 am*	2:00 am* 3:00 am*	3:00 am* 4:00 am*			
HKG BJS	Standard Time and Daylight Saving Time	1:00 am	2:00 am	3:00 am	4:00 am	5:00 am				
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 CHI MIA YTO NYC YHZ YYT	Standard Time and Daylight Saving Time	Midnight	1:00 am	2:00 am	3:00 am	4:00 am	5:00 am			
							*Next day			

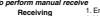
- Note
 When a calibration time is reached, the watch will receive the calibration signal only if it is in either the Timekeeping Mode or World Time Mode. Reception is not performed if a calibration time is reached while you are configuring settings.
 Auto receive of the calibration signal is designed 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 signal easily.
 The watch receives the calibration signal for two to seven minutes everyday when the time in the Timekeeping Mode time. Do not perform any button operation within seven minutes before or after the calibration times. Doing so can interfere with correct calibration. can interfere with correct calibration
- Remember that reception of the calibration signal depends on the current time in the Timekeeping Mode. The receive operation will be performed whenever the display shows any one of the calibration times, regardless of whether or not the displayed time actually is the correct time.

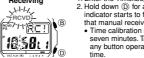
About the Signal Strength Indicator The signal strength indicator shows the strength of the calibration signal being received. For best reception, be sure to keep the watch in a location where sig strength is strongest. The signal strength indicator is displayed while an auto o manual receive operation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



- Even in an area where signal strength is strong, it takes about 10 seconds for signal reception to stabilize enough for the signal strength indicator to indicate signal strength.
- 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 setting, the RCVD indicator will remain on the display in all modes. The RCVD indicator will not be displayed if signal reception was unsuccessful or after you adjust the current time setting, the RCVD 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 received. The RCVD indicator indicates that least one of the auto calibration signal receive operations was successful. Note, however, that the RCVD indicator disappears from the display each day when the first auto receive operation of the day is performed.

- the display each day when the first auto receive operation of the day is performed. display cuc. erform manual receive





- Enter the Timekeeping Mode.
 Hold down (D) for about two seconds until the RCVD indicator starts to flash on the display. This indicates
- Indicator starts to flash on the display. This indicates that manual receive is in progress.
 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 appreciate is guarantial to exceed the transmission of the transmission of the transmission. If the receive operation is successful, the reception
- date and time appear on the display, along with the GET indicator.
- 3. After manual receive is complete, press (D) to return to The watch also will return to normal timekeeping if you do not perform any button operation for about one or
- two minutes.
- If the latest reception fails but a previous reception was successful during the current day, the RCVD indicator will be on the display.

C.1.1) B

Note • To interrupt a receive operation and return to normal timekeeping, press (D)



2



Receive successful

50:11

Reception date

+1, 1

_//0

GET

_//0

eive failed

0

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A

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To turn auto receive on and of



1. In the Timekeeping Mode, press D to display the latest successful receive time and date screen. successful receive time and date screen.
2. Hold down @) until the current auto receive setting (GR or GFF) starts to flash. This is the setting screen.
Note that the setting screen will not appear if the current ty selected Home City is one that does not support time calibration reception.

On/Off status

3. Press (D) to toggle auto receive on (CR) and off (CFF).
4. Press (A) to exit the setting screen.
For information about city codes that support signal receive, see "To specify your Home City".

To check the latest signal reception results



In the Timekeeping Mode, press (D) to view the latest successful receive time and date. Press (D) again to

The watch also will return to normal timekeeping if you do not perform any button operation for about one or two minutes.

Signal Reception Troubleshooting

Check the following points whenever you experience problems with signal reception Problem Probable Cause What you should do Cannot perform The watch is not in the Timekeeping Mode. 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, CHI, MIA, YTO, NYC, YHZ, or YYT as your manual receive 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, CHI, MIA, YTO, NYC, YHZ, or YYT Home City. Enter the Countdown Timer A countdown timer operation is in progress Mode and stop the countdown Auto receive is You changed the time setting Perform manual signal receive You changed the time setting manually.
 The DST setting was changed manually in the World Time Mode.
 You pressed a button while signal receive is successful, the RCVD indicator will disancer from the display each turned on, but the RCVD or wait until the next auto signal receive operation is indicator does not appear on the display. performed. performed. Check to make sure the watch is in a location where it can receive the signal. disappear from the display each day when the first auto receive operation of the day is erformed Time data (hour, minutes, seconds) only was received during the last receive operation. The **RCVD** indicator appears only when time data and date data (year, month, day) are both received. Change the DST setting to Auto DST. Time setting is 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. incorrect Select the correct Home City following signal eceptio code

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

World Time



World Time shows the current time in 48 cities (29 time zones) around the world.

- zones) around the world. The times kept in the World Time Mode are synchronized with the time being kept in the Timekeeping Mode. If you feel that there is an error in any World Time Mode time, check to make sure you have the correct city selected as your Home City. Also check to make sure that the current time as shown in the Timekeeping Mode is correct.
 - Check to thate sub- fittal the Cultern time as shown in the Timekeeping Mode is correct.
 Select a city code in the World Time Mode to display the globe. See the "City Code Table" for information about the UTC differential settings that are supported.
 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 city

Pressing (D) and (B) at the same time will jump to the UTC time zone.

To toggle a city code time between Standard Time and Daylight Saving Time DST indicator 0. (()) 0. (()

- 9:5850 P
- Time setting you want to change. 2. Hold down (A) to toggle between Daylight Saving Time
- Hold down (A) to toggle between Daylight Saving II' (DST indicator displayed) and Standard Time (DST indicator not displayed).
 The DST indicator is shown on the World Time Mode screen while Daylight Saving Time is turned on.
 Note that the Standard Time/Daylight Saving Time roting afforts endy the currently differenced by each
- setting affects only the currently displayed city code Other city codes are not affected. Note that you cannot switch between Standard Time and Daylight Saving Time while UTC is selected as the city cod

Alarms



The Alarm Mode gives you a choice of four one-time alarms and one snooze alarm. Also use the Alarm Mode to turn the Hourly Time Signal (SIG) on and off.

- (5.1G) on and off.
 There are five alarm screens numbered FL 1, FLZ, FLZ and FL4 for the one-time alarm, and a snoze alarm screen is indicated by SHZ. The Hourly Time Signal screen is indicated by SIG.
 All of the operations in this section are performed in the All of the operations in this section are performed in the
- Alarm Mode, which you enter by pressing (C)

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



1. In the Alarm Mode, press 0 to scroll through the alarm screens until the one whose time you want to set is displayed. AL1+AL2+AL3+AL4

- SIG← SNZ
- To set a one-time alarm, display alarm screen AL 1, AL2, AL3 or AL4. To set the snooze alarm, display the SNZ screen.
 The snooze alarm repeats every five minutes.
 After you select an alarm, hold down @ until the hour setting of the alarm time

- 5. Press (A) to exit the setting screen.

Alarm Operation

The alarm tone sounds at the preset time for 10 seconds, regardless of the mode the watch is in. In the case of the snooze alarm, the alarm operation is performed a total of seven times, every five minutes, until you turn the alarm off.

- Alarm and Hourly Time Signal operations are performed in accordance with the Timekeeping Mode time.
 To stop the alarm tone after it starts to sound, press any button.
 Performing any one of the operations below during a 5-minute interval between snoze alarm cancels the current snoze alarm operation. Displaying the Timekeeping Mode setting screen Displaying the SNZ setting screen

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



Sn

Alarm on indicator

ze alarm indicator

- B
- I. In the Alarm Mode, use
 ① to select an alarm.
 2. Press
 (a to toggle it on (@#) and off (@F).
 Turning on a alarm (PL 1, PL 2, RL 3, PL 4, or
 SN2) displays the alarm on indicator on its Alarm Mode
 Arrow (PL 1, PL 2, PL 4) screen
 - In all modes, the alarm on indicator is shown for any alarm that currently is turned on.
 The alarm on indicator flashes while the alarm is
 - sounding. The snooze alarm indicator flashes while the snooze
 - alarm is sounding and during the 5-minute intervals between alarms

To turn the Hourly Time Signal on and off 1. In the Alarm Mode, use (1) to select the Hourly Time Signal (SIG). 2. Press (2) to toggle it on (CR) and off (CF).

- The Hourly Time Signal on indicator is shown on the display in all modes while this function is turned on.
- ₩D sig 🗜 On/Off status Hourly time signal on indicator

<u>-40 on</u>

Stopwatch



The stopwatch lets you measure elapsed time, split times, and two finishes.

- The display range of the stopwatch is 23 hours, 59 minutes, 59.99 seconds.
- minutes, 59.99 seconds. The stopwatch continues to run, restarting from zero after it 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 and the stopwatch whether the store and the store the store of the store of
- 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 ©.

To measure times with the stopwatch

Elapsed Time				
$0 \longrightarrow$	• 🛈	$0 \longrightarrow$	· 0	A
Start	Stop	Re-start	Stop	Clear
Split Time				
$0 \longrightarrow$	$\cdot \land \longrightarrow$	\land \longrightarrow	· 0	A
Start	Split (SPL displayed)	Split release	Stop	Clear
Two Finishes				
$\bigcirc \longrightarrow$	•	0	• A	A
Start	Split First runner finishes. Display time of first runner.	Stop Second runner finishes.	Split release Display time of second runner.	Clear

After you select an aarm, hold down (a) until the hour setting of the alarm tin starts to flash, which indicates the setting screen. • This operation turns on the alarm automatically. Press (a) to move the flashing between the hour and minute settings. While a setting is flashing, use (a) (+) and (b) (-) to change it. • With the 12-hour format, set the time correctly as a.m. or p.m. (P indicator). 4. While

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Countdown Timer



You can set the countdown timer within a range of one minute to 24 hours. An alarm sounds when the countdown reaches zero.

All of the operations in this section are performed in the Countdown Timer Mode, which you enter by pressing ©.

Countdown End Beeper The countdown end beeper lets you know when the countdown reaches zero. The beeper stops after about 10 seconds or when you press any button.

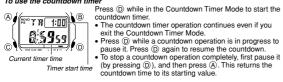
To configure the count wn timer 1. While the countdown start time is on the display in the Countdown Timer Mode, hold down (a) until the current countdown start time starts to flash, which indicates the

- B
 - setting screen.
 If the countdown start time is not displayed, use the procedure under "To use the countdown timer" to display it.
 Press (b) to move the flashing between the hour and mixed continger.

setting screen.

- minute settings. 3. When a setting is flashing, use D (+) and B (-) to
- change it. To specify a countdown start time of 24 hours, set 0:00. Press (A) to exit the setting screen.
- 4. P

To use the countdown til



Timer start t

Illumination



This watch has an EL (electro-luminescent) panel that causes the entire display to glow for easy reading in the dark. The watch's auto light switch turns on illumination automatically when you angle the watch towards your The auto light switch must be turned on (indicated by the auto light switch on indicator) for it to operate.

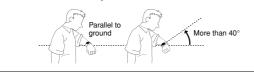
information about using illumination.

To illuminate the display manually In any mode (except when a setting screen is on the display), press (B) to turn on illumination. The above operation turns on illumination regardless of the current auto light switch

settina.

About the Auto Light Switch Turning on the auto light switch causes illumination to turn on, whenever you position your wrist as described below in any mode. Note that this watch features a "Full Auto EL Light", so the auto light switch operates only when available light is below a certain level. It does not turn on the backlight under bright light.

Moving the watch to a position that is parallel to the ground and then tilting it towards you more than 40 degrees causes illumination to turn on. • Wear the watch on the outside of your wrist.



Warning

- Always make sure you are in a safe place whenever you are reading the display of the watch using the auto light switch. Be especially careful when running or engaged in any other activity that can result in accident or injury. Also take care that sudden illumination by the auto light switch does not startle or distract others around you.
- When you are wearing the watch, make sure that its auto light switch is turned off before riding a bicycle or operating a motorcycle or any other motor vehicle. Sudden and unintended operation of the auto light switch can create a distraction, which can result in a traffic accident and serious personal injury.
- To turn the auto light switch on and off

In the Timekeeping Mode, hold down () for about three seconds to toggle the auto light switch on (A.EL displayed) and off (A.EL not displayed). • The auto light switch on indicator is on the display in all modes while the auto light switch is turned on.

Power Supply

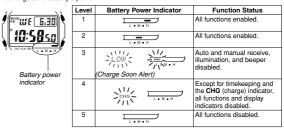
This watch is equipped with a solar cell and a rechargeable battery that is charged by the electrical power produced by the solar cell. The illustration shown below shows how you should position the watch for charging. Solar cell

- Example: Orient the watch so its face is
- 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 blocked by
- any part of the solar cen is broaded 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 covered only partially.

- 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. Be sure that the watch is exposed to bright light whenever
- power to run down, be sure that the water to store power produced by the solar cell, so possible.
 This watch uses a 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 rechargeable battery to charge fully, contact your dealer or CASIO distributor about having it replaced.
- CASIO distributor about having it replaced. Never try to remove or replace the watch's rechargeable battery yourself. Use of the wrong type of battery can damage the watch. All data stored in memory is deleted, and 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 Power 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 from noing dead
- battery from going dead

Battery Power Indicator and Recover Indicator The battery power indicator on the display shows you t

The battery power indicator on the display shows you the current status of the rechargeable battery's power.



- The flashing LOW indicator at Level 3 tells you that battery power is very low, and that exposure to bright light for charging is required as soon as possible.
 At Level 5, all functions are disabled and settings return to their initial factory defaults. Once the battery reaches Level 2 after falling to Level 5, reconfigure the current time, date, and other settings.
 The watch's Home City code setting will change automatically to **TYO** (Tokyo) whenever the battery drops to Level 5. With this Home City code setting, the watch is configured to receive the time calibration signals of Japan. If you are using the watch is north America, Europe, or China, you will need to change the Home City code setting to match your location whenever the battery drops to Level 5.
 Display indicators reappear as soon as the battery is charged from Level 5 to Level 2.
 Leaving the watch exposed to direct sunlight or some other very strong light source can cause the battery level. The correct battery level should be indicated after a few minutes.
- minutes



 If you use the light or alarms a number of times during a I you use the light of alarms a number of times during short period, all segments of the battery power indicat flash and the following operations become temporarily disabled as battery power recovers. - Display illumination - Alarm and hourly time signal Time of the treatment temporarily

- After some time, the battery power indicator should stop
- After some time, the battery power indicator should stop flashing to indicate that battery power is back to normal. At this time the watch should return to normal operation. If the battery power indicator frequently flashes, it means that battery power is low. Leave the watch in bright light to allow it to charge.

Charging Precautions 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

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Charging Guide 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 e level to the next

Exposure Level	Approximate Exposure Time							
(Brightness)	Level 5	Level 5 Level 4 Level 3		Level 2	Level 1			
Outdoor Sunlight (50,000 lux)		2 hours	20 hours	6 hours				
Sunlight Through a Window (10,000 lux)		8 hours 15 hours 171 hours		99 hours	27 hours			
Daylight Through a Window on a Cloudy Day (5,000 lux)				201 hours	54 hours			
Indoor Fluorescent Lighting (500 lux)								

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

Timekeeping

Current Time

Use the Timekeeping Mode to set and view the current time and date



Read This Before You Set the Time and Date! This watch is preset with a number of city codes, each of which represents the time zone where that city is located When setting the time, it is important that you first select When setting the time, it is important that you has select the correct city code for your Home City (the city where you normally use the watch). If your location is not included in the preset city codes, select the preset city code that is in the same time zone as your location.
 Note that all of the times for the World Time Mode city codes are displayed in accordance with the time and date settings you configure in the Timekeeping Mode.



To set the time and date manually 1. In the Timekeeping Mode, hold down (a) until the city code starts to flash, which indicates the setting scree 2. Use (b) and (b) to select the city code you want. • Make sure you select your Home City code before • Tracing one other setting. changing any other setting.For full information on city codes, see the "City Code"

Table"

3. Press (C) to move the flashing in the sequence shown below to select the other settings

City Code	→ DS	т	→[24-Hour ormat]→	Secor	ids	➡ Hour	h
Power Saving		Day	-	 Month	<	Year	 ←−−−	Minutes	ł

Screen:	To do this:	Do this:
TYO	Change the city code	Use (D) (east) and (B) (west).
OFF	Cycle between Auto DST (러비TII), Daylight Saving Time (디어) and Standard Time (디FF).	Press D.
12H	Toggle between 12-hour (1 =H) and 24- hour (=4H) timekeeping	Press D.
* 10:58 50	Reset the seconds to 00	Press D.
10.30%	Change the hour and minutes	Use $()$ (+) and $()$ (-).
20 IO 6,30	Change the year, month, or day	Use $(-)$ (+) and $(-)$.
PS 00	Toggle between Power Saving on ([]]) and off ([] FF)	Press D.

5. Press (A) to exit the setting screen.
 Auto DST (FiliTil) can be selected only while LIS, LON, MAD, PAR, ROM, BER, STO, ATH, MOW, TPE, SEL, TYO, HNL, ANC, YVR, LAX, YEA, DEN, MEX, CHI, MIA, YTO, NYC, YHZ, or YYT is selected as the Home City code. For more information, see "Daylight Saving Time (DST)".
 The day of the week is displayed automatically in accordance with the date (year, monther day and the selected).

month, and day) settings.

- 12-hour and 24-hour timekeeping
 With the 12-hour format, the P (PM) indicator appears to the left of the hour digits for times in the range of noon to 11:59 p.m. and no indicator appears to the left of the hour digits 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 are indicator.
- With the 24-Hour hormat, times are displayed in the range of 0.00 to 25.59, with any indicator.
 The 12-hour/24-hour timekeeping format you select in the Timekeeping Mode is applied in all other modes.

Davlight Saving Time (DST)

Daylight Saving Time (DST)
Daylight Saving Time, Remember that not all countries or even local areas use Daylight Saving Time. Remember that not all countries or even local areas use Daylight Saving Time.
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.
Though the time calibration signals transmitted by the Fukushima and Fukuoka/ Saga, Japan transmitters include summer time data, summer time currently is not implemented in Japan (as of 2009).
The default DST setting is Auto DST (FiliTII) whenever you select LIS, LON, MAD, PAR, ROM, BER, STO, ATH, MOW, TYO, ANC, YVR, LAX, YEA, DEN, MEX, CHI, MIA, YTO, NYC, YHZ, or YYT as your Home City 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

			•
Ì	RCVD PS		

 Summer time (summer time) setting

 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 (c) and the DST setting screen appears

 3. Use (b) to cycle through the DST settings in the sequence shown below.

Auto DST (₩UTU) → DST off (□₩) → DST on (□№) DST indicator

If you change your Home City to one that is within the same transmitter area, the current DST setting (Auto DST) will be retained. If you change to a city that is outside your current transmitter area, DST will be turned off automatically.

Transmitter	Covered City Codes
Japan	TPE, SEL, TYO
China	HKG, BJS
U.S.	HNL, ANC, YVR, LAX, YEA, DEN, MEX, CHI, MIA, YTO, NYC, YHZ, YYT
Europe (U.K., German	ny) LIS, LON, MAD, PAR, ROM, BER, STO, ATH, MOW
None	All other city codes

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

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 of das desired. • Even if you turn off the button operation tone, alarms,

the Hourly Time Signal, and other beepers 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 O to toggle the button operation tone on (\$ not displayed) and off (\$ displayed). • Holding down O to turn the button operation tone on or off also causes the watch's current mode to change. • The \$ indicator is displayed in all modes when the button operation tone is turned off

- off.

Power Saving Function



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



Saving function

	Elapsed Time in Dark	Display	Operation						
	60 to 70 minutes	Blank, with Power Saving indicator flashing	All functions enabled, except for the display						
		Blank, with Power Saving	Auto receive, beeper tone,						

111 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.

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

On/Off status

- Press any button.
 Angle the watch towards your face for reading.

To turn Power Saving on and off 1. In the Timekeeping Mode, hold down ⓐ until the city code starts to flash, which indicates the setting screen. 2. Press ⓒ 9 times until the Power Saving on/off screen

- Press () 9 times that the rower saving on (1) and off (1) FF).
 Press (a) to exit the setting screen.
 Press (a) to exit the setting screen.
 The Power Saving indicator is on the display in all modes while Power Saving is turned on.

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Radio-controlled Atomic Timekeeping Precautions

- Hadio-controlled Atomic 1 imekeeping Precautions
 Strong electrostatic charge can result in the wrong time being set.
 The time calibration signal bounces 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 atitudes due to seasonal atmospheric changes or the time of day may change the reception range of the signal and make reception temporarily in the second sec
- 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 setting or umake manually.
 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 the time calibration be performed starting from January 1, 2100.
 This watch can receive signals that differentiate between leap years and non-leap years.
- Though this watch is designed to receive both time data (hour, minutes, seconds) and date data (year, month, day), certain signal conditions can limit reception to time
- data only. If you are in an area where proper time calibration signal reception is impossible, the
- If you are in an area where proper time calibration signal reception is impossible, if watch keeps the 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.
 The Home City setting reverts to the initial default of TYD (Tokyo) whenever the battery power level drops to Level 5 or when you have the rechargeable battery replaced. If this happens, change the Home City to the setting you want.

Transmitters

The time calibration signal received by this watch depends on the currently selected Home City code. • When a U.S. time zone is selected, the watch receives the time calibration signal transmitted from the United States (Fort Collins).

- When a Japanese time zone is selected, the watch receives the time calibration

- When a Japanese time zone is selected, the watch receives the time calibration signal transmitted from Japan (Fukushima and Fukuska/Saga).
 When a European time zone is selected, the watch receives the time calibration signals transmitted from Germany (Mainflingen) and England (Anthorn).
 When a China time zone is selected, the watch receives the time calibration signals transmitted from China (Shanqqiu City).
 When your Home City is LIS, LON, MAD, PAR, ROM, BER, STO, ATH, or MOW (which can receive poth the Anthorn and Mainflingen signals) the watch first tries
- When your nome city is Lis, Lon, MAD, PAR, HOM, BER, STO, ATH, or MOW (which can receive both the Anthon and Mainflingen signals), the watch first tries to pick up the signal it last successfully received. If that fails, it tries the other signal. For the first receive after you select your Home City, the watch tries the nearest signal first (Anthorn for LIS, LON, Mainflingen for MAD, PAR, ROM, BER, STO, ATH, and MOW).

- Auto Return
 If you do not perform any operation for about two or three minutes while a setting screen (with a flashing setting) is on the display, the watch will exit the setting screen automatically
- The watch returns to the Timekeeping Mode automatically if you do not perform any button operation for two or three minutes in the Alarm Mode.

Scrolling

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

Initial Screens

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

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 year can be set in the range of 2000 to 2099. 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 when battery power drops to Level 5. The current time for all city codes in the Timekeeping Mode and World Time Mode is calculated in accordance with the Coordinated Universal Time (UTC) for each city, based on your Home City time setting. based on your Home City time setting

World Time

The seconds count of the World Time is synchronized with the seconds count of the Timekeeping Mode

Illumination Precautions

- The electro-luminescent panel that provides illumination loses power after very long
- Illumination may be difficult 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.

Auto light switch precautions • Avoid wearing the watch on the inside of your wrist. Doing so causes the auto light switch to operate when it is not needed, which shortens battery life. If you want to wear the watch on the inside of your wrist, turn off the auto light switch feature.



 Illumination may not turn on if the face of the watch is more than 15 degrees above or below parallel. Make sure that the back of your hand is parallel to the ground.
 Illumination turns off after a preset amount of time (1.5 seconds), even if you keep the watch pointed towards your face

- Static electricity or magnetic force can interfere with proper operation of the auto light switch. If illumination does not turn on, try moving the watch back to the starting position (parallel with the ground) and then tilt it back toward you again. If this does not work, drop your arm all the way down so it hangs at your side, and then bring it back up again
- Under certain conditions, illumination may not turn on until about one second after you turn the face of the watch towards you. This does not necessarily indicate
- You may notice a very faint clicking sound coming from the watch when it is shaken back and forth. This sound is caused by mechanical operation of the auto light switch, and does not indicate a problem with the watch.

Specifications

- Accuracy at normal temperature: ± 15 seconds a month (with no signal calibration) Timekeeping: Hour, minutes, seconds, p.m. (P), month, day, day of the week Time format: 12-hour and 24-hour

- Time format: 12-hour and 24-hour
 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); Standard Time / Daylight Saving Time (summer time)
 Time Calibration Signal Reception: Auto receive 6 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); Fort Collins, Colorado, the United States (Call Sign: WWB, Frequency: 60.0 kHz); Fort Collins, Colorado, the United States (Call Sign: WWPB, Frequency: 8 aga, Japan (Call Sign: JJY, Frequency: 60.0 kHz); Fukuoka/ Saga, Japan (Call Sign: JJY, Frequency: 68.5 kHz)
 World Time: 48 cities (29 time zones)
- World Time: 48 cities (29 time zones)

Other: Daylight Saving Time/Standard Time Alarms: 5 daily alarms (four one-time alarms; one snooze alarm); Hourly Time Signal Alarms: 5 daily alarms (four one-time alarms; one snooze Stopwatch: Measuring unit: 1/100 second Measuring capacity: 23:59' 59.99" Measuring modes: Elapsed time, split time, two finishes Countdown Timer:

Measuring unit: 1 second Input range: 1 minute to 24 hours (1-minute increments and 1-hour increments) Illumination: EL (electro-luminescent panel); Full Auto Light Switch Other: Power Saving; Button operation tone on/off

- Power Supply: Solar cell and one rechargeable battery Approximate battery operating time: 10 months (from full charge to Level 4) under the following conditions:

 - the following conditions: Watch not exposed to light Internal timekeeping 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
 - Approximately 4 minutes of signal reception per day

City Code Table

City Code	City	UTC Offset/ GMT Differential	City Code	City	UTC Offset/ GMT Differential
UTC			ADL	Adelaide	+9.5
LIS	Lisbon	0	GUM	Guam	+10
LON	London		SYD	Sydney	+10
MAD	Madrid		NOU	Noumea	+11
PAR	Paris		WLG	Wellington	+12
ROM	Rome	+1	PPG	Pago Pago	-11
BER	Berlin		HNL	Honolulu	-10
STO	Stockholm		ANC	Anchorage	-9
ATH	Athens		YVR	Vancouver	8
CAI	Cairo	+2	LAX	Los Angeles	-0
JRS	Jerusalem		YEA	Edmonton	-7
MOW	Moscow	+3	DEN	Denver	-/
JED	Jeddah	+3	MEX	Mexico City	-6
THR	Tehran	+3.5	CHI	Chicago	-0
DXB	Dubai	+4	MIA	Miami	
KBL	Kabul	+4.5	YTO	Toronto	-5
KHI	Karachi	+5	NYC	New York	
DEL	Delhi	+5.5	SCL	Santiago	-4
DAC	Dhaka	+6	YHZ	Halifax	-4
RGN	Yangon	+6.5	YYT	St. Johns	-3.5
BKK	Bangkok	+7	RIO	Rio De Janeiro	-3
SIN	Singapore		RAI	Praia	-1
HKG	Hong Kong	+8			
BJS	Beijing	- +0			
TPE	Taipei]			
SEL	Seoul	+9			
TYO	Tokyo	+3			

Based on data as of December 2009. The rules governing global times (UTC offset and GMT differential) and summer time are determined by each individual country.