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

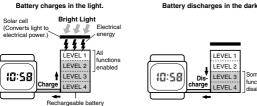


When you are not wearing the watch on your wrist, position the face so it is pointed at a source of bright

ight.
You should try to keep the watch outside of your sleeve background by the charging is reduced significantly in the second sec as much as possible. Charging is reduced significantly if the face is covered only partially.

The vatch 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 © to change from mode to mode.
 In any mode (except when a setting screen is on the display), press ① 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 (Maintlingen), 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 process to construct the mecessary.
 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" below.
 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.



To specify your Home City PM indicator (a) (b) (c) (c)



ATH : Athens MOW : Moscow HKG, BJS, TPE : Hong Kong, Beijing, Taipei SEL, TYO : Seoul, Tokyo HNL : Honolulu ANC

: Anchorage

YVR, LAX: Vancouver, Los Angeles YEA, DEN: Edmonton, Denver MEX, CHI: Mexico City, Chicago NYC : New York YHZ : Halifax YVT : St Johan

- YYT St.Johns 3. Press (A) to exit the setting screen.
- 5. 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 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 applied to the night of a point the accordingly.
- 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 ranges of the watch.

- 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.

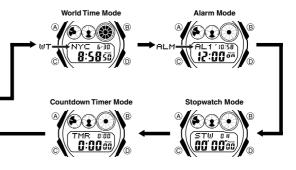
If the display of the watch is blank... If the display of the watch is blank, it means that the watch's Power Saving function has turned off the display to conserve power. • See "Power Saving Function" for more information.

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 its malfunction

About This Manual

- 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.





- 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.

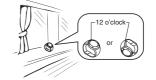
Auto Receive

With auto receive, the watch receives the time calibration signal automatically up to 6 times a day (5 times a day for the Chinese calibration signal). 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!
 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 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. Proper signal reception can be difficult or even impossible under the conditions listed below. m 一 Among or behind Near household Near a construction site, airport, or other Near high-tension power lines Inside o Inside a vehicle among buildings appliances, office equipment, or a mobile phone sources of electrical

LEVEL 4

LEVEL 1

EVEL 2

LEVEL 3

Some or all

functions

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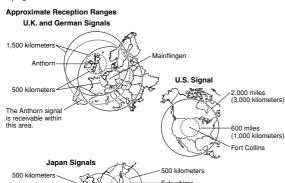
- Signal reception normally is better at night than during the day.
 Time calibration signal reception takes from two to seven minutes, but in some cases it can take as long as 14 minutes. Take care that you do not perform any button operations or move the watch during this time.
 The time calibration signal the watch will attempt to pick up depends on its current Home City code setting as shown below.

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
TPE, SEL, TTO	Fukuoka/Saga (Japan)	60.0 kHz
HNL*, ANC*, YVR, LAX, YEA, DEN, MEX, CHI, NYC, YHZ, YYT	Fort Collins, Colorado (the United States)	60.0 kHz

L * 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

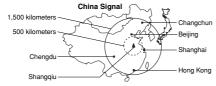
with signal reception Calibration signal reception is disabled while a countdown timer operation is in

progress.



ukushima a/Sag 1.000 kilometers 1,000 kilometers

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)
- For Collins (United States) transmitter: 500 miles (1,000 kilometers)
 Fukushima or Fukuska/Saga (Japan) transmitters: 500 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
- changes.
- · See the information under "Signal Reception Troubleshooting" if you experience problems with time calibration signal recepti

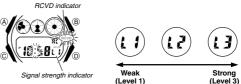
About Auto Receive The watch receives the time calibration signal automatically up to 6 times a day (5 times a day for the Chinese calibration signal). When any auto receive is successful, the remaining auto receive operations are not performed. The reception schedule (calibration times) depends on your currently selected Home City, and whether standard time or Daylight Saving Time is selected for your Home City.

Your Home City			Au	to Receiv	e Start Tin	nes	
		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 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
- 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 reaches a calibration time. Do not perform any
 button operation within seven minutes hefers or after the calibration time. Doing Ching Const.
- button operation within seven minutes before or after the calibration times. Doing so
- an interfere with correct calibration signal depends on the current time in the Timekeeping Mode. The receive operation will be performed whenever the displayed 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 signal strength is strongest. The signal strength indicator is displayed while an auto or manual receive operation is in progress.



- 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.
- · Use the signal strength indicator as a guide for checking signal strength and for
- 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 manually.
 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 is at least one of the auto calibration signal receive operations was successful. Note, however, that the RCVD indicator disappears from the display each daw when the first and receive coversion of the day is orderemed.
- the display each day when the first auto receive operation of the day is performed. To perform manual receive 1. Enter the Timekeeping Mode.



<u>, 11:0</u>2

eive fai

ERR 6-30

B

D

- Enter the interesepting woole.
 Hold down (D) for about two seconds until RCVD 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 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 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 The watch will return to normal timekeeping without changing the time setting if you press 0 or if you do not
- perform any button operation for about one or two , minutes. Note

To interrupt a receive operation and return to normal timekeeping, press D.



If no reception was successful



On/Off status

- In the Imekeeping Mode, press (D) to display the last successful receive time and date screen.
 Hold down (A) until the current auto receive setting (C) or (C) F) starts to flash. This is the setting screen.
 Note that the setting screen will not appear if the currently selected Home City is one that does not
- support time calibration reception 3. Press (D) to toggle auto receive on (
- (**CFF**) 4. Pro
- Press (a) to exit the setting screen.
 For information about city codes that supreceive, see "To specify your Home City" upport signal

To check the latest signal reception results

Press D to view the last successful receive time and date. Press D again to return to the previous screen.



1. In the Timekeeping Mode, press (1) to display the last

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I Deservations Translation to a star

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, YYR, LAX, YEA, DEN, MEX, CHI, 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, CHI, NYC, YHZ, or YYT as your Home City.
Auto receive is turned on, but the RCVD 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 RCVD indicator will disappear 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 RCVD 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



World Time shows the current time in 48 cities (31 time

World time shows the current time in 48 cities (31 time 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 ensert the active calculated extreme to be a Cit & Alex have the correct city selected as your Home City. Also check to make sure that the current time as shown in check to make sure that the current time as shown in the Timekeeping Mode is correct. Select a city code in the World Time Mode to display the current time in any particular time zone around 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 While in the World Time Mode, use the ${\rm (}{\rm D}{\rm (eastward)}$ and ${\rm (}{\rm B}{\rm (westward)}$ to scroll through the city codes (time zones). Pressing the 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 . In the World Time Mode, use (1) and (2) to display the city code (time zone) whose Standard Time/Daylight Saving Time setting you want to change. 2. Hold down (2) to toggle between Daylight Saving Time (DST indicator displayed) and Standard Time (DST indicator displayed) and Standard Time (DST °**9:58**50,

- indicator not displayed). The DST indicator is shown on the World Time Mode
- Screen while Daylight Saving Time is turned on. Screen while Daylight Saving Time is turned on. Note that the Standard Time/Daylight Saving Time 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 code.

Alarms

DST indicato



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.

There are five alarm screens numbered AL 1, AL2, AL3 and AL4 for the one-time alarm, and a snooze alarm screen indicated by SIAZ. The Hourly Time Signal screen is indicated by SIG.

All of the operations in this section are performed in the Alarm Mode, which you enter by pressing (C).

To set an alarm time

AL1 10:58

1. In the Alarm Mode, use (i) to scroll through the alarm screens until the one whose time you want to set is displayed. B



- To set a one-time alarm, display alarm screen AL1 , AL⊇, AL∃ or AL4 To set the snooze alarm, display the SNZ screen.
- The snocze alarm repeats every five minutes.
 After you select an alarm, hold down (
 <u>)</u> until the hour setting of the alarm time starts to flash, which indicates the setting screen.
 This operation turns on the alarm automatically.

- 3. Press © to move the flashing between the hour and minute settings.
 4. While a setting is flashing, use (1) (+) and (2) (-) to change it.
 With the 12-hour format, set the time correctly as a.m. or p.m. (P indicator).

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

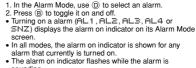
Alarm Operation

- 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 snooze alarms cancels the current snooze alarm operation. Displaying the Timekeeping Mode setting screen Displaying the SNZ setting screen

To test the alarm In the Alarm Mode, hold down (1) to sound the alarm

To turn an alarm on and of

- In the Alarm Mode, use D to select an alarm. Alarm on indicator
- Snooze alarm indicato (SN2 3:30 ~



- - 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

(D)



Signal on and off
In the Alarm Mode, use (D) to select the Hourly Time Signal (S I G).
Prees (B) to toggle it on and off.
The Hourly Time Signal on indicator is shown on the display in all modes while this function is turned on.

Stopwatch



- The stopwatch lets you measure elapsed time, split times, 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.
 The stopwatch continues to run, restarting from zero after it reaches its limit, until you stop it.
 The stopwatch measurement operation continues even it was written Consumer Made
- - if you exit the Stopwatch Mode

 - 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 ©.

D	> ©>	• D	• D	• (B)
Start	Stop	Re-start	Stop	Clear
Split Time	► ®	· ®	• 0	• ®
Start	Split (SPL displayed)	Split release	Stop	Clear
Two Finishes				
D	► ®	· (D)	▶ ®>	• ®
Start	Split First runner finishes. Display time of first runner.	Stop Second runner finishes.	Split release Display time of second runner.	Clear

Countdown Timer



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

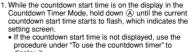
reaches zero. • All of the operations in this section are performed in the Countdown Timer Mode, which you enter by pressing ©.

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 countdown time





- display it. 2. Press © to move the flashing in the sequence shown below to select other settings.



1/100 second Min To n

easure times with the stopwatch

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3. When the setting you want to change is flashing, use (1) and (B) to change it as described below

Setting	Screen	Button Operation
Hours, Minutes	0:00	Use \textcircled{D} (+) and \textcircled{B} (-) to change the setting.

• To specify a countdown start time of 24 hours, set 0:00 4. Press (A) to exit the setting screen. To use the countdown timer Press (1) while in the Countdown Timer Mode to start the



countdown timer.The countdown timer operation continues even if you

The countdown timer operation continues even if you exit the countdown Timer Mode.
Press (D) while a countdown operation is in progress to pause it. Press (D) again to resume the countdown.
To stop a countdown operation completely, first pause it (by pressing (D), and then press (B). This returns the e countdown time to its starting value.

Timer start time

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 face. • The auto light switch must be turned on (indicated by the outor light switch must be turned on (indicated by the outor light switch must be turned on (indicated by the outor light switch must be turned on (indicated by the outor). the auto light switch on indicator) for it to operate. See "Illumination Precautions" for other important

information about using illumination.

To illuminate the display manually In any mode, press ① to turn on illumination. • The above operation turns on illumination regardless of the current auto light switch setting.

. You can use the procedure below to select either 1.5 seconds or 3 seconds as the illumination duration. When you press (), the illumination will remain on for about 1.5 seconds or 3 seconds, depending on the current illumination duration setting.



- ecify the illumination duration
 1. In the Timekeeping Mode, hold down (A) until the
 display contents start to flash. This is the setting screen. 2. Press © 10 times until the current illumination duration
 - setting (LT1 or LT3) appears. 3. Press (D) to toggle the setting between LT1
 - (approximately 1.5 seconds) and LTE (approximately 3 seconds).
 Press (A) to exit the setting screen.

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.



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. Alway
- 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 (auto light switch on indicator displayed) and off (auto light switch on indicator 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.

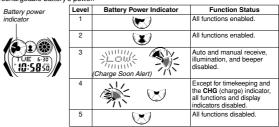
- Example: Orient the watch so its face is
- Example: Orient the watch so its face is pointing at a light source.
 The illustration shows how to position a watch with a resin band.
 Note that charging efficiency drops whe any part of the solar cell is blocked by elablicity of the solar cell is blocked by when
- 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 possible

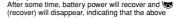
- This watch uses a rechargeable battery to store power produced by the solar cell, so regular battery replacement is not required. However, after very long use, the rechargeable battery may lose its ability to achieve a full charge. If you experience problems getting the rechargeable battery to charge fully, contact your dealer or CASIO distributor about having it replaced.
 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 harder.

- when you have the battery replaced. Turn on the watch's Power Saving function and keep it in an area normally exposed to bright when storing it for long periods. This helps to keep the rechargeable battery from going dead.

Battery Power Indicator and Recover Indicator 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
- defaults. Once the battery reaches Level 2 after failing 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 in North America or Europe, or China you will need to change the Home City code setting the watch estimation reaction 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 event calculation some other very strong light sources.
- Leaving the watch exposed to direct sunlight or some other very strong light source can cause the battery power indicator to show a reading temporarily that is higher than the actual battery level. The correct battery level should be indicated after a few minutes.
 - Performing illumination, or beeper operations during a short period may cause (recover) to appear on the display.



After some time, battery power will recover and (so) (recover) will disappear, indicating that the above functions are enabled again. If (so) (recover) appears frequently, it probably means that remaining battery power is low. Leave the watch in bright light to allow it to charge.

Charging Precautions

10:5850)/

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

B

ര

Too close to an incandescent lamp

Under direct sunlight

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 one level to the next.

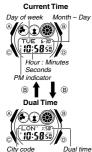
Exposure Level	Approximate Exposure Time				
(Brightness)	Level 5	Level 5 Level 4 Level 3		Level 2	Level 1
Outdoor Sunlight (50,000 lux)	3 hours			18 hours	5 hours
Sunlight Through a Window (10,000 lux)	9 hours			90 hours	24 hours
Daylight Through a Window on a Cloudy Day (5,000 lux)	14 hours			182 hours	49 hours
Indoor Fluorescent Lighting (500 lux)	155 hours				

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



CASIO

Timekeeping



Press the (B) button to toggle the lower display between the day of the week and date, and the currently selected World Time city and time (Dual Time). Use the Timekeeping Mode to set and view the current time and date

Read This Before You Set the Time and Date!

Head 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 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 disclayed in accordance with the time and 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 In the Timekeeping Mode noid down (a) until the city code starts to flash, which indicates the setting screen.
 Use (i) and (b) to select the city code you want.
 Make sure you select your Home City code before changing any other setting.
 For full information on city codes, see the "City Code Table".

Table".

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

City Code		12/24-Hour Format	→ Seconds	Hour	Minutes
Power Savir	ng Hillumination Duration		utton ation Tone	Day 🗲 Mo	onth 🗲 Year 🗲

The following steps explain how to configure timekeeping settings only.
4. When the timekeeping setting you want to change is flashing, use () or () to change it as described below.

Screen:	To do this:	Do this:
TYO	Change the city code	Use (D) (east) and (B) (west).
OFF	Cycle between Auto DST (취비TII), Daylight Saving Time (디자) and Standard Time (이루두).	Press D.
12H	Toggle between 12-hour ($1 \ge H$) and 24-hour ($2 \le H$) timekeeping	Press D.
50	Reset the seconds to 00	Press D.
<i>10:58</i>	Change the hour and minutes	Use $(-)$ (+) and $(-)$.
20 09 6-30	Change the year, month, or day	Use () (+) and () (-).
MUTE / KEY "Þ	Toggle the button operation tone between KEY_h (on) and MUTE (off)	Press D.
LT1	Toggle the illumination duration between LT1 (approximately 1.5 seconds) and LTE (approximately 3 seconds).	Press D.
PS OA	Toggle between Power Saving on (Press D.

Fress (A) to exit the setting screen.
 Auto DST (FillTII) 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, NYC, YHZ, or YYT is selected as the Home City code. For more information, see "Daylight Saving Time (DST)" below.

. The day of the week is displayed automatically in accordance with the date (year 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 indicated.

- With the 24-hour initial, which are a standard or any indicator.
 The 12-hour/24-hour timekeeping format you select in the Timekeeping Mode is applied in all other modes

Daylight Saving Time (DST) Daylight Saving Time (summer time) advances the time setting by one hour from Standard Time. Remember that not all countries or even local areas use Daylight

- Saving Time. 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 signal transmitted by the Fukushima and Fukuoka/Saga, Japan transmitters include summer time data, summer time currently is not implemented in Japan (as of 2008). The default DST setting is Auto DST (fillTI) whenever you select LIS, LON, MAD, PAR, ROM, BER, STO, ATH, MOW, TYO, ANC, YVR, LAX, YEA, DEN, MEX, CHI, 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 . In the Timekeeping Mode, hold down (a) until the city code starts to flash, which indicates the setting screen. . Press (c) and the DST setting screen appears. . Use (b) to cycle through the DST settings in the sequence shown below.

Auto DST (FUTU) DST off (CFFF) DST on (CH)

If you change your Home City to one that is within the same transmitter area, the current DST setting 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, NYC, YHZ, YYT
Europe (U.K., Germany)	LIS, LON, MAD, PAR, ROM, BER, STO, ATH, MOW
None	All other city codes

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

Graphic Area

The information shown in the graphic area depends on the current mode

Graphic Area	Mode	Graphic Area	
	Timekeeping Mode	Timekeeping Mode seconds	
	World Time Mode	Timekeeping Mode seconds	
	Alarm Mode	No indication	
	Stopwatch Mode	Stopwatch Mode 1/10 seconds	
	CountdownTimer Mode	CountdownTimer Mode seconds	

Button Operation Tone



The button operation tone sounds any time you press one of the watch's buttons. You can turn the button operation

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



- Ion tone on and off
 In the Timekeeping Mode, hold down (a) until the city code starts to flash, which indicates the setting screen.
 Press (a) nine times until the current button operation tone setting (KEY) or MUTE) appears.
 Press (a) to toggle the setting between KEY in (tone on) and MUTE (tone off).
 Press (b) to exit the setting screen.
 The mule 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 for a certain period where it is dark. The table below shows how watch functions are affected by the Power aving function

Elapsed Time in Dark	Display	Operation		
60 to 70 minutes	Blank, with Power Saving indicator flashing	All functions enabled, except for the display		
6 or 7 days		Auto receive, beeper tone, illumination, and display are disabled.		
NAME AND ADDRESS AND ADDRESS ADDRE				

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 wis already in the sleep state when 6:00 AM arrives, however, it will remain in the watch sleep state

To recover from the sleep state Perform any one of the following operations.

· Move the watch to a well-lit area

E\111 0 0

On/Off statu

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

D

To turn Power Saving on and off 1. In the Timekeeping Mode, hold down (a) until the city code starts to flash, which indicates the setting screen. 2. Press (c) 11 times until the Power Saving on/off screen

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

CASIO

- Radio-controlled Atomic Timekeeping 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 altitudes due to seasonal atmospheric changes or the time of day may change the reception range of the signal and make reception temporarily impossible.
- 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 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 data (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, th
 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 TYO (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
- When a LOS 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 signal transmitted from Japan (Fukushima and Fukuoka/Saga).
 When a European time zone is selected, the watch receives the time calibration signal transmitted from Japan (Fukushima and Fukuoka/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 (Shangqiu City).
 When your Home City is LIS, LON, MAD, PAR, ROM, BER, STO, ATH, MOW (which can receive both the Anthorn 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) 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

Scrolling

The (B) and (D) 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 after you have the watch's battery replaced. 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 use.
- 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

More than 15 degrees too high



• Illumination may not turn on if the face of the watch is Indimination that a 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 or 3 seconds), even if you keep the watch pointed towards your face.

- · Static electricity or magnetic force can interfere with proper operation of the auto Static electricity or magnetic force can interfere with proper operation of the auto light witch. If illumination does not turn on, try moving the watch back to the starting position (parallel with the ground) and then till 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 malfunction of the auto light switch.
 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 witch, and does not indicate a prohlam with the watch.
- switch, and does not indicate a problem with the watch

Specifications

- Accuracy at normal temperature: ± 15 seconds a month 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: 40.0 kHz); Fukuoka/ Saga, Japan (Call Sign: JJY, Frequency: 60.5 kHz)
 World Time: 48 cities (31 time zones)

World Time: 48 cities (31 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:

Countoown 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; Selectable illumination duration Other: Button operation tone on/off

Power Supply: Solar cell and one rechargeable battery Approximate battery operating time: 9 months (from full charge to Level 4) under 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 second) per day • 10 seconds of alarm operation per day

- · Approximately 4 minutes of signal reception per day

Frequent use of illumination runs down the battery. Particular care is required when using the auto light switch.

City Code Table

City		UTC Offset/	City		UTC Offset/
Code	City	GMT Differential	Code	City	GMT Differential
PPG	Pago Pago	-11	MOW	Moscow	+3
HNL	Honolulu	-10	JED	Jeddah	
ANC	Anchorage	-9	THR	Tehran	+3.5
YVR	Vancouver	-8	DXB	Dubai	+4
LAX	Los Angeles		KBL	Kabul	+4.5
YEA	Edmonton	-7	KHI	Karachi	+5
DEN	Denver		DEL	Delhi	+5.5
MEX	Mexico City	-6	KTM	Kathmandu	+5.75
CHI	Chicago		DAC	Dhaka	+6
NYC	New York	-5	RGN	Yangon	+6.5
SCL	Santiago	-4	BKK	Bangkok	+7
YHZ	Halifax		SIN	Singapore	+8
YYT	St. Johns	-3.5	HKG	Hong Kong	
RIO	Rio De Janeiro	-3	BJS	Beijing	
FEN	Fernando de Noronha	-2	TPE	Taipei	
RAI	Praia	-1	SEL	Seoul	+9
UTC		0	TYO	Tokyo	+9
LIS	Lisbon		ADL	Adelaide	+9.5
LON	London		GUM	Guam	+10
MAD	Madrid	+1	SYD	Sydney	
PAR	Paris		NOU	Noumea	+11
ROM	Rome		WLG	Wellington	+12
BER	Berlin				
STO	Stockholm				
ATH	Athens				
CAI	Cairo	+2			
JRS	Jerusalem				

· Based on data as of June 2008.

cases on usia as or june 2008.
 The rules governing global times (UTC offset and GMT differential) and summer time are determined by each individual country.