CASIO

Getting Acquainted

Congratulations upon your selection of this CASIO watch. To get the most out of your purchase, be sure to carefully read this manual and keep it on hand for later reference when necessary.

This watch does not have a time zone that corresponds to the Greenwich Mean Time differential of -3.5 hours. Because of this, the radio-controlled timekeeping and World Time functions will not display the correct time for Newfoundland, Canada.

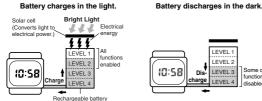
Keep the watch exposed to bright light

Bright Light TITTT The electricity generated by the solar cell of the watch is stored by a built-in battery. Leaving or using the watch where it is not exposed to light causes the battery to run down. Make sure the watch is exposed to light as much as possible.



 When you are not wearing the watch on your wrist. yosition the face so it is pointed at a source of bright light. You should try to keep the watch outside of your sleeve as much as possible. Charging is reduced significantly if the face is only partially covered.

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



General Guide

Timekeeping Mode

WE 30

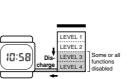
Hour hand

ï

WΕ ЭД Da

Dav of week

- Press © to change from mode to mode.
 In any mode, press B to illuminate the display



Hand Setting Mode

ORLD TIME ALM D

H-S ET

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

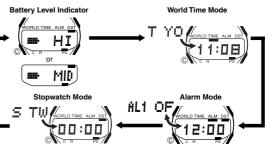
If the digital display of the watch is blank ..



About This Manual

the watch is blank... If the Power Saving indicator (₱) is flashing on the display, it means that the display is blank because the watch's Power Saving function has turned it off to conserve power. Power Saving automatically turns off the display and enters a sleep state whenever your watch is left for a certain period in an area where it is dark. If the watch is kept in the dark for a longer period, the analog hands will also stop moving after a few days. The initial factory default setting is Power Saving on.

- 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.



Radio-controlled Atomic Timekeeping

This watch receives a time calibration signal and updates its time setting accordingly. The time calibration signal includes both Standard Time and Daylight Saving Time (summer time) data. • This watch is designed to pick up the time calibration signal transmitted in the United States (Fort Collins, Colorado) and the time calibration signals transmitted in Japan. Minute hand

Press ①

- Japar Japan. • 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.

Second hand

Current Time Setting

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

- signal. You can also perform a manual procedure to set the time and date, when necessary.
 The first thing you should do after purchasing this watch is to set your Home City, which is the city where you will normally use the watch. For more information, see "To set your Home City" below.
 When using the watch outside the ranges of the U.S. and Japanese time signal transmitters, you have to adjust the current time setting manually as required. See "Timekeeping" for more information about manual time setting.
 The analog time of this watch is synchronized with the digital time. Because of this, the analog time setting is automatically adjusted whenever you change the digital setting. See "Analog Timekeeping" for more information.

To set your Home City



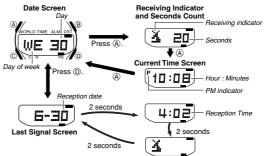
- In the Timekeeping Mode, hold down (a) until the transmitter indicator (US) starts to flash, which indicates the setting screen.
 The second hand will move at high speed to the 12 o'clock position, where it will stop.
 Press (C) once so the city code is flashing on the display.
 Use (D) (east) and (B) (west) to scroll through the city codes until the one you want to use as your Home City is displayed.

- HNL : Honolulu 러시C : Anchorage L뒤X: Los Angeles, San Francisco, Las Vegas, Seattle, Vancouver, Tijuana DEN: Denver, El Paso, Edmonton, Culiacan CHI : Chicago, Houston, Dallas/Fort Worth, New Orleans, Winnipeg, Mexico City NYC: New York, Detroit, Miami, Boston, Montreal

- TYO: All cities in Japan SEL: Seoul HKG: Hong Kong Note that this watch does not have a city code that corresponds to Newfoundland.
- Note that this watch does not have a city code that corresponds to Newtonhalad.
 Press (A) twice to exit the setting screen.
 The first press of (A) displays the 12/24-hour setting screen. Pressing (A) again exits the setting screen.
 The second hand will advance at high speed to the correct position in accordance with seconds count of the digital time, and resume normal movement from there.
 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 (in the second screen). the middle of the night). You can also perform manual receive or you can set the time
- If you are in an area that does not use Daylight Saving Time (summer time), turn off the DST setting.

To display the digital time and last signal screen
In the Timekeeping Mode, press (A) to cycle through the digital time screens as shown below. In the Timekeeping Mode, press (1) to display the last signal screen. The last signal screen shows the date and time of the last successful time calibration signal

screen sh reception.



lodule 5052

WE 30 Module 3311

 The initial factory default setting is Power Saving on.
 The watch will recover from the sleep state if you move it to a well-fit area or if you press any button. • The operational procedures for Modules 3311 and 5052 are identical. All of the illustrations in this manual show Module 3311.

CASIO

Time Calibration Signal Reception

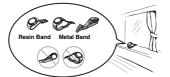
There are two different methods you can use to receive the time calibration signal: auto receive and manual receive.

Auto Receive With auto receive, the watch automatically picks up the time calibration signal five times a day at 0:00 a.m., 1:00 a.m., 2:00 a.m., 3:00 a.m., and 4:00 a.m. For more information, see "About Auto Receive

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

Important!

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



- Make sure the watch is facing the right way.
 Proper signal reception can be difficult or evolutions. cult or even impossible under the conditions listed



- Signal reception is normally better at night than during the day. 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. When within range of the applicable transmitter, this watch can receive either the U.S. (Fort Collins, Colorado) or Japanese (Fukushima or Fukuoka/Saga) time calibration signal. The signal the watch will attempt to pick up depends on its current Home City code setting as shown below.

Home City Code	Transmitter	Frequency
HNL [*] , ANC [*] , LAX, DEN, CHI, NYC	Fort Collins, Colorado	60kHz
TYO**.SEL*.HKG*	Fukushima	40kHz
TTO ,SEE ,ANG	Eukuoka/Saga	60kHz

The areas covered by the SEL, HKG, HNL, and ANC city codes are quite far from the time calibration signal transmitters, and so certain conditions may cause problems with signal reception. With TYO, you can specify either 40kHz or 60kHz

500 f. 2.000 miles 500 600 miles



- Under good reception conditions, signal reception is possible within a radius of about 2,000 miles (3,000 kilometers) from the Fort Collins transmitter. At distances further than about 600 miles (1,000 kilometers) from the Fort Collins

- At distances further than about 600 miles (1,000 kilometers) from the Fort Collins transmitter, signal reception may not be possible during certain times of year or times of day. Radio interferance may also cause problems with reception.
 At distances further than about 500 kilometers from the Fukushima and Fukuoka/ Saga transmitter, signal reception may not be possible during certain times of year or times of day. Radio interferance may also cause problems with reception.
 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.
 See the information under "Signal Reception Troubleshooting" if you experience problems with time calibration signal reception.

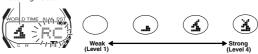
About Auto Receive When auto receive is turned on, the watch automatically starts to receive the time calibration signal when the time in the Timekeeping Mode reaches 0:00 a.m., 1:00 a.m., 2:00 a.m., 3:00 a.m., and 4:00 a.m. each day (calibration times). The watch will also perform an additional auto receive at 5:00 a.m. if none of the regularly scheduled auto receive are successful

- Auto receive is performed only if the watch is in the Timekeeping Mode or World Time Mode when one of the calibration times is reached. It is not performed if a calibration time is reached while an alarm is sounding, or while you are configuring
- calibration time is reached while an alarm is sounding, or while you are configuring settings (while settings are flashing on the display).
 When a reception starts, the second hand will move at high speed to the 12 o'clock position where it will stop until the reception is complete.
 Auto receipt 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 easily receive the signal.

- . When auto receive is turned on, the watch receives the calibration signal for two to seven minutes receive a when the time in the Timekeeping Mode reaches each of the five calibration times. Do not perform any button operation within seven minutes before or after any of the five calibration times. Doing so can interfere with correct calibration. calibration
- Remember that reception of the calibration signal depends on the time kept in the digital display. The reception will be performed whenever the display shows one of the five calibration times, regardless of whether or not the displayed time is actually the correct time.
- . When two, three, four, or five receptions are successful, the watch uses the data of the last reception for calibration. When only one reception is successful, the watch uses the data of the successful reception.

About the Receiving Indicator The receiving 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

eiving indi



- Even in an area where signal strength is strong, it takes about 10 seconds for signal reception to stabilize enough for the receiving indicator to indicate signal strength
- Use the receiving indicator as a guide for checking signal strength and for finding the best location for the watch during signal reception.
 The Level 4 receiving indicator appears on the Timekeeping Mode's Receiving Indicator and Seconds Count screen only.
 The Level 4 receiving indicator is not displayed if signal reception was unsuccessful or ofter proved different of the wrent time certain.
- or after manual adjustment of the current time setting. . The Level 4 receiving indicator indicates that at least one of the five calibration
- signal reception was successful. Note, however, that the Level 4 receiving indicator is cleared from the display at 3:00 a.m. each day.

To perform manual receive



1. Place the watch on a stable surface so its top (12 Place the watch on a stable surface so its top (12 o'clock side) is facing towards a window.
 In the Timekeeping Mode, hold down () for about two seconds until the watch beeps.
 Release () and RC flashes to indicate that signal reception has started.
 When a reception starts, the second hand will move at high speed to the 12 o'clock position where it will stop.

- high speed to the 12 o'clock position where it will stop until the reception is complete.
- Time calibration signal reception normally takes from two to seven minutes. In Japan, however, reception can take up to 14 minutes. Take care that you do not perform any button operations or move the watch during this time.
 After signal reception is complete, the display of the watch changes to the last signal
- screen

Note

- To interrupt a reception and return to the Timekeeping Mode, press ().
 If the reception is unsuccessful, the message ERR appears on the display for about one or two minutes. After that, the watch returns to the Timekeeping Mode.
 You can also change from the last signal or ERR screen to the normal timekeeping
- screen by pressing (D).

To turn auto receive on and off



 In the Timekeeping Mode, hold down (A) until the transmitter indicator starts to flash, which indicates the setting screen The second hand will move at high speed to the 12

- The second hand will move at high speed to the 12 o'clock position, where it will stop.
 Press © three times to move the flashing to the auto receive on/off setting.
 Press © to toggle auto receive on (□N) and off (□F).
 If the current Home City setting is a city code that does not support auto receive, "......" appears in place of the on/off indicator. This means you cannot turn auto receive,"
- turn auto receive on or off. 4. Press (A) twice to exit the setting screen

nce problems with signal rec

- The second hand will advance at high speed to the correct position in accordance with the digital time seconds count, and resume normal movement from there.
 For information about city codes that support signal reception, see "To set your Home City".

Signal Reception Troubleshooting

Problem	Probable Cause	What you should do
Cannot perform manual receive.	The watch is not in the Timekeeping Mode. Your current Home City is not one of the following city codes: HNL, ANC, LAX, DEN, CHI, NYC, HKG, SEL, or TYO.	Enter the Timekeeping Mode and try again. Select HNL, ANC, LAX, DEN, CHI, NYC, HKG, SEL, or TYO as your Home City.
Auto receive is turned on, but the Level 4 receiving indicator does not appear on the Timekeeping Mode display.	 You changed the time setting manually. The watch was not in the Timekeeping or World Time Mode, or you were performing some button operation during the auto receive. Even If reception is successful, the Level 4 receiving indicator disappears every day at 3 a.m. Time data (hour, minutes, seconds) only was received during the last reception. The Level 4 receiving indicator appears only when time data and date data (year, month, day) are both received. 	 Perform manual receive or wait until the next auto receive 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".

CASIO

World Time



The World Time Mode digitally displays the current time in Pressing (A) in the World Signally obsplays the current time in 30 cities (29 time zones) around the world.
Pressing (A) in the World Time Mode causes the applicable city code to appear on the digital display for about two seconds.
If the current time shown for a city is wrong, check your Home City time settings and make the necessary changes.

changes • The watch will perform a signal reception even if it is in the World Time Mode when a calibration time is the word Time Mode when a caloration time is reached. If this happens, the World Time Mode time settings will be adjusted in accordance with the Timekeeping Mode's Home City time. 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, press (1) to scroll through the city codes (time zones) • For full information on city codes, see the "City Code Table".

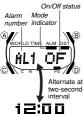
To toggle a city code time between Standard Time and Daylight Saving Time 1. In the World Time Mode, use ① to display the city code (time zone) whose Standard Time/Daylight Saving Time

- DST 3:08 DST indicator
- Pressing (A) in the World Time Daylight Saving Time setting you want to change.
 Pressing (A) in the World Time Mode causes the applicable city code to appear on the digital display for about two seconds.
 Hold down (A) to toggle Daylight Saving Time (DST indicator displayed) and Standard Time (DST indicator or displayed)
- 2 not displayed).

Note that you cannot use the World Time Mode to change the DST setting of the Home City code you currently have selected in the Timekeeping Mode. See "To change the Daylight Saving Time (summer time) setting" for information about turning the Home City code DST setting on and off.

The DST indicator will appear on the display whenever you display a city code for which Daylight Saving Time is turned on.
 Note that you cannot switch between Standard Time and Daylight Saving Time while Cart T is selected as the city code.
 Note that the DST/Standard Time setting affects only the currently displayed city code. Other city codes are not affected.

Alarms



You can set three independent Daily Alarms. When an alarm is turned on, the alarm tone sounds when the alarm time is reached. You can also turn on an Hourly Time Signal that causes the watch to beep twice every hour on the hour.

 The alarm and Hourly Time Signal operate in accordance with the current digital time

accordance with the current orgital time. The alarm number (AL1 though AL3) indicates an alarm screen. SIG appears in place of the alarm number when the Hourly Time Signal screen is shown. All of the operations in this section are performed in the Alarm Mode, which you enter by pressing ©.

Alarm time (Hour : Minutes)



To set an alarm time

AL2 AL3 AL1 SIG

1. In the Alarm Mode, press (D) to select the alarm whose

 Hold down (A) until the hour setting of the alarm time starts to flash, which indicates the setting screen. etting scre This automatically turns on the alarm

time you want to set.

- 3. Press © to move the flashing between the hour and minute settings.
 4. While a setting is flashing, use (0) (+) and (8) (-) to change it.
 When setting the alarm time using the 12-hour format, take care to set the time correctly as a.m. (no indicator) or p.m. (**P** indicator). • If you have 24-hour timekeeping selected in the Timekeeping Mode, the alarm time is also displayed in 24-hour format. 5. Press (A) to exit the setting screen.

Alarm Operation

The alarm sounds in all modes at the preset time for about 10 seconds, or until you stop it by pressing any button.

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

To turn an alarm and the Hourly Time Signal on and off 1. In the Alarm Mode, press () to select an alarm or the Hourly Time Signal. 2. When the alarm or the Hourly Time Signal you want to set is selected, press (A) to turn it on and off.

Stopwatch

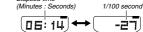
nds

1/100 second

The stopwatch lets you measure elapsed time, split times, and two finishes. • The display range of the stopwatch is 99 minutes, 59.99

- The topped, the seconds.
 The 1/100-second value appears while the elapsed time operation is stopped or while a split time is frozen on the

Elapsed Time Screen





- . The stopwatch continues to run, restarting from zero after it reaches its limit, until
- The stopwatch measurement operation continues even if you exit the Stopwatch
- Mode

(D)	→D		→0	→A
Start	Stop	Re-start	Stop	Clear
Split Time				
(D)	→@	→A	→D	→A
Start	Split	Split release	Stop	Clear
Two Finishe	s			
(D)	→(A)	→D	→A	→A
Start	Split First runner finishes. Display time of first runner.	Stop Second runner finishes.	Split release Display time of second runner.	Clear

Illumination



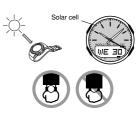
An LED (light-emitting diode) and a light guide panel illuminate the digital display for easy reading in the dark. • See "Illumination Precautions" for other important information.

To illuminate the display In any mode, press (B) to illuminate the display. • You can specify 1.5 seconds or 2.5 seconds as the illumination duration. See 'To set the current digital time and date manually' for more information.

Power Supply

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

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



Important!

- Storing the watch for long periods in an area where there is no light or wearing it in such a way that it is blocked from exposure to light can cause rechargeable battery power to run down. Make sure that the watch is exposed to bright light whenever
- power to run down. Make sure that the watch is exposed to bright light whenever possible.
 This watch uses a special rechargeable battery to store power produced by the solar cell, so regular battery replacement is not required. However, after very long use, the rechargeable battery may lose its ability to achieve a full charge. If you experience problems getting the special rechargeable battery to charge fully, contact your dealer or CASIO distributor about having it replaced. Never try to remove or replace the watch's special battery yourself. Use of the wrong
- Never try to remove or replace the watch special battery yoursell. Use of the wrong type of battery can damage the watch.
 The current time and all other settings return to their initial factory defaults whenever battery power drops to Level 4 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 form acrine doed
- battery from going dead

00:00 PS 0

More than one minute Elapsed time (Minutes : Seconds)



06:14 ıtes Split Time Screer



- you stop it. Exiting the Stopwatch Mode while a split time is frozen on the display clears the split
- 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

CASIO

D TIME ALM

ΗÏ

- To check the current battery level In the Timekeeping Mode, press © once to display the battery level indicator. The battery level indicator shows the battery level either as HI (Level 1) or MID (accel 2) (Level 2)
- If the battery level drops below Level 2 (MID), a charge soon alert (Level 3) is displayed in all modes.

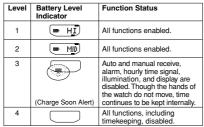
Battery level indicato



Battery Level Indicator and Charge Indicator

level indicator shows you the current power level of the rechargeable The battery tery

10



- The flashing charge 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.
- and that exposure to bright ign for charging is required as soon as possible. At Level 4, all functions are disabled and settings return to their initial factory defaults. Functions are enabled once again after the rechargeable battery is charged, but you need to set the time and date, after the battery reaches Level 2 after dropping to Level 4. The Home City reverts to TYO (Tokyo), which means that the watch is configured the period the home are time after the intermediate from the means that the watch is configured

- The Hollie City levels to T 10 (10ky), which theats that the watch is conligued to receive the Japanese time calibration signal, whenever battery power drops to Level 4. If you are using the watch in North America, you will need to configure your Home City code setting whenever battery power recovers after dropping to Level 4.
 Leaving the watch in direct sunlight or some other very strong light source can cause the battery level indicator to temporarily show a reading that is higher than the actual battery level. The correct battery level indicator should appear after a few minutes.



If you use the light or alarms a number of times during a short period, the recover indicator $(\frac{1}{R})$ appears on the display and the following operations become disabled until battery power recovers Illumination

Beeper tone Coordination between digital and analog timekeeping Time calibration signal reception

After some time, battery power will recover and the recover indicator will disappear, indicating that the above functions are enabled again.

Charging Precautions

Creating the calculation of the second secon

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 Onditions for long periods.
 On the dashboard of a car parked in direct sunlight
 Too close to an incandescent lamp

- Under direct sunlight

Charging Guide

After a full charge, timekeeping remains enabled for up to about 5 months.
The following table shows the amount of time the watch needs to be exposed to light each day in order to generate enough power for normal daily operations.

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

Indoor Fluorescent Lighting (500 lux)

Since these are the specs, we can include all the technical details

5 months (from full charge to Level 3 when the watch is not exposed to light) under the following conditions: • 1 illumination operation (1.5 seconds) per day • 10 seconds of alarm operation per day

- · 5 times calibration reception per day

2 years under the following condition: • Watch left in the sleep state • Stable operation is promoted by frequent charging.

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 4	Level 3	Level 2	Level 1
Outdoor Sunlight (50,000 lux)	1 h	our	10 hours	5 hours
Sunlight Through a Window (10,000 lux)	4 ho	ours	48 hours	22 hours
Daylight Through a Window on a Cloudy Day (5,000 lux)	8 ho	ours	99 hours	46 hours
Indoor Fluorescent Lighting (500 lux)	76 h	ours		

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

Timekeeping

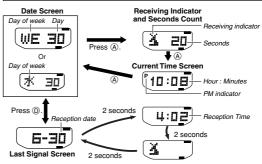
Use the Timekeeping Mode to set and view the current time and date. This section also explains how to manually set the current date and time

- When setting the time, you can also configure settings for the illumination duration, the 12/24-hour format, and power saving on/off.
 All of the operations in this section are performed in the Timekeeping Mode, which
- you can enter by pressing ©.

You can select either Japanese (kanji) or English for the day of the week indicator. • For more information, see "To set the current digital time and date manually".

Day of the Week Indicators

, so that we have interactions Sounday: SULM Monday: MO/J Tuesday: TU/ $\!\!\!/\!\!\!/\!\!\!/$ Wednesday: WE/ $\!\!\!/\!\!\!/\!\!\!/$ Thursday: TH/ $\!\!\!/\!\!\!/\!\!\!/$ Friday: FR/ $\!\!\!\!/\!\!\!\!/$ Saturday: SV $\!\!\!\!\!\!\!\!\!$



Setting the Digital Time and Date Manually

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



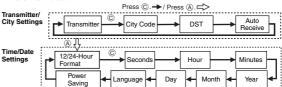
To set the current digital time and date manually 1. In the Timekeeping Mode, hold down (A) until the transmitter indicator starts to flash, which indicates the setting screen



The second hand will move at high speed to the 12

o'clock position, where it will stop. 2. Use (A) or (C) to move the flashing in the sequence shown below to select other settings

Transmitter indicato



 Use © to display the transmitter screen
 The transmitter indicator that appears in the transmitter indicator the tran The transmitter indicator that appears indicates whether the currently se Home City code is one that supports time calibration signal reception.

This indicator:	Means this:
US 60	The currently selected Home City code supports signal reception.
	The currently selected Home City code does not support signal reception.

 US ED appears for the trasmitter while NYC, CHI, DEN, LAX, ANC, or HNL is selected as the Home City. In this case, there is not need to select a transmitter

You can change the transmitter when HKG, TYO, or SEL is selected as the Home City. For details, see "To configure the transmitter selection mode setting".
 Use () and () to select the other time and date settings, and change the settings and change the settings.

as described above. 5. When the setting you want to change is flashing, use (B) and/or (D) to change it as described below

Transmitter/City Settings

Screen:	To do this:	Do this:
N YC	Change the city code	Use (D) (east) and (B) (west).
	Cycle between Daylight Saving Time (마시), Standard Time (마두), and Auto DST (타)	Press D.
R/C ON	Toggle between auto receive on (CH) and off (CF)	Press D.

· See "City Code Table" for a complete list of available city codes

Tin o/Dato Sotting

Time/Date Setti	inga	
Screen:	To do this:	Do this:
12 H	Toggle between 12-hour (1 ∈ H) and 24-hour (∈ H) timekeeping	Press D.
(× 20)	Reset the seconds to D	Press D.
	Toggle the illumination duration setting between 1.5 second (*) and 2.5 seconds (*)	Press ®.
10:08	Change the hour or minutes	Use () (+) and () (-).
20 04	Change the year	Use () (+) and () (-).
6-30	Change the month or day	Use () (+) and () (-).
WE 30	Toggle the day of the week language between Japanese (kanji) and English	Press (D).
PS ON	Toggle Power Saving on (⊡N) and off (□F)	Press D.

For information about settings other than the time and date, see the following. Illumination duration: Illumination

- Illumination duration: Illumination Power Saving: Power Saving Function 6. Use (a) to exit the setting screen. If a Time/Date Setting screen is displayed, press (a) twice. If a Time/Date Setting screen is displayed, press (b) once. The second hand will advance at high speed to the correct position in accordance with the digital time seconds count, and resume normal movement from there. When you exit the setting screen, the analog hands are adjusted automatically to match the digital time. See "Analog Timekeeping" for more information.

Note

- Auto DST (A) can be selected only while HNL, ANC, LAX, DEN, CHI, NYC, HKG, TYO, or SEL is selected as the Home City code. For more information, see "Daylight Saving Time (DST)" below.
 The auto receive setting is used for time calibration signal reception only. See "About
- Auto Receive" for details

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 signal transmitted from Fort Collins includes 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 Fort

- Ollins signal.
 The time calibration signals transmitted from Fukushima and Fukuoka/Saga do not
- The unre canoration signates transmitted from Fukushima and Fukuoka/Saga do not include summer time data.
 The default DST setting is Auto DST (A) whenever you select HNL, ANC, LAX, DEN, CHI, NYC, TYO, SEL, or HKG as your Home City code.
 If you experience problems receiving the time calibration signal in your area, it is probably best to switch between Standard Time and Daylight Saving Time (summer time) manually.

- To change the Daylight Saving Time (summer time) setting 1. In the Timekeeping Mode, hold down (a) until the transmitter indicator starts to flash, which indicates the setting screen. 2. Press (c) twice and the DST setting screen appears. 3. Use (b) to cycle through the DST settings in the sequence shown below.



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

Analog Timekeeping The analog time of this watch is synchronized with the digital time. The analog time setting is adjusted automatically whenever you change the digital time. Note

- . The hands for the analog timepiece move to adjust to a new setting whenever any of the following occurs.
- The following occurs. When you change the digital time setting manually When the digital time setting is changed by time calibration signal reception When you change the Home City code and/or DST setting If the analog time does not match the digital time for any reason, use the procedure described under "To adjust the analog time" to match the analog setting to the digital active
- setting. Whenever you need to adjust both the digital and the analog time settings manually,
- Depending on how much the hands have to move in order to adjust to the digital time, it may take some time before they stop moving.

To adjust the analog time

- NE STOLES - n n-11 I
- In the Timekeeping Mode, press © five times to enter the Hand Setting Mode.
 Hold down (A) until -□ □ starts to flash, which indicates the setting screen.
 The second hand will move at high speed to the 12 o'clock position, where it will stop.
 If the second hand in act pointing provided up to 2 cloce
- 3. If the second hand is not pointing precisely at 12 o'clock
- at this time, use (1) to adjust its position. Each press of (1) causes the second hand to advance second by one

- 4. Press ©. This will cause the time on the digital display to flash, which indicates that adjustment of hour and minute hands is selected
- 5. Use D and B to adjust the analog setting as described below

When you want to do this:	Perform this button operation:
Move the hand setting forward 20 seconds	• Press (D).
Move the hand setting back 20 seconds	• Press (B).
Move the hand setting a short way forward at high speed	 Hold down D. Release D when the hands reach the setting you want.
Move the hand setting a short way back at high speed	 Hold down (B). Release (B) when the hands reach the setting you want.
Move the hand setting a long way forward at high speed	While holding down ① to move the hands at high-speed, press ⑧ to lock the high-speed hand movement. To stop the hand movement, press any button. Hand movement stops automatically if the hour hand makes one full (12-hour) revolution.
Move the hand setting a long way back at high speed	While holding down (2) to move the hands at high-speed, press (2) to lock the high-speed hand movement. To stop the hand movement, press any button. Hand movement stops automatically if the hour hand makes one full (12-hour) revolution.

6. Press (a) to exit the setting screen.The minute hand will be adjusted slightly to match the seconds when you exit the setting screen.
To return to the Timekeeping Mode, press ©.

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.

Power Saving Function



When turned on, the Power Saving function automatically enters a sleep state whenever the watch is left in an area where lighting is dim (less than about 30 lux). The following shows how watch functions are affected when left in a dark place while in the sleep state.

er Saving

Approximate Period in sleep state	Functions
3 to 4 days	 LCD off Alarm, hourly time signal, analog timekeeping and auto receive enabled
8 days or more	 LCD off, alarm and hourly time signal disabled Analog timekeeping stopped at 12 o'clock Auto receive disabled

flashing on it. • Wearing the watch inside the sleeve of clothing can cause it to enter the sleep state.

To recover from the sleep state

- Perform any one of the following operations.Move the watch to a well-lit area.
- Press any butto



setting screen. • The second hand will move at high speed to the 12 o'clock position, where it will stop

- Press (A) again. Press (C) eight times until the Power Saving on/off
- screen appears. 4. Press D to toggle Power Saving on (CN) and off
- (OF). 5. Press (A) to exit the setting screen.

- The second hand will advance at high speed to the correct position in accordance with the digital time seconds count, and resume normal movement from there. The Power Saving indicator ($\overline{F_S}$) is on the display in all modes while the Power Saving is turned on.

Auto Return Features

- Alto neutrin relatives if you leave the watch in the Alarm or Hand Setting Mode, or with the Battery Level Indicator (HI or MID) displayed for two or three minutes without performing any operation, it automatically returns to the Timekeeping Mode.
 If you leave the watch with a flashing setting on the display for two or three minutes without performing any operation, the watch automatically exits the setting screen.

Scrolling

The (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 through the data at high speed.

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

CASIO

CASIO

Radio-controlled Atomic Timekeeping Precautions

- Hadio-controlled Atomic i immekeeping 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 immensible. 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 so umake manually.
 The watch is designed to automatically update the date and day of the week for the period January 1, 2000 to December 31, 2099. Setting of the date by the time calibration signal cannot be performed starting from January 1, 2100.
 This watch can receive signals that differentiate between leap years and non-leap years
- 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
- data only.
 Normally, the signal reception date shown by the last signal screen is the date data included in the received time calibration signal. When only time data is received, however, the last signal screen shows the date as kept in the Timekeeping Mode at the time of signal reception.
 If you are in an area where proper time calibration signal reception is impossible, the watch keeps time within ±15 seconds a month at normal temperature.
 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
- setting is wrong after signal reception, check your current city code, DST (summer time), and auto receive settings. The following are the initial factory defaults for these settings.

Setting	Initial F	actory Default
City code	TYO	(Tokyo)
DST (summer time)	A	(Auto switching)
Auto receive	R/C ON	(Auto receive)

 $\begin{array}{l} \textbf{Configuring Transmitter Selection Mode Settings}\\ \text{Note that the transmitter selection mode setting can be configured only when TYO, SEL, or HKG is selected as the Home City. See the map for more information.} \end{array}$ To configure the transmitter selection mode setting 1. In the Timekeeping Mode, hold down (A) until the transmitter indicator starts to flash, which indicates the



- transmitter indicator starts to flash, which molecutes are setting screen.
 The second hand will move at high speed to the 12 o'clock position, where it will stop.
 Use (0) to select the transmitter you want to use.
 Each press of (0) cycles through the available settings
- Fach press of U cycles through the available set as described below.
 AT : The watch automatically selects the frequency that has the strongest signal.
 JP 4J : Receives the signal from Fukushima (40k JF ED : Receives the signal from Fukuska/Saga (60kHz).
 - na (40kHz)

- Press (A) twice to exit the setting screen.
 Reception can take up to 14 minutes when the RT option is selected.
 The second hand will advance at high speed to the correct position in accordance with seconds count of the digital time, and resume normal movement from there.

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.

- reset to **00** without changing the minutes. The day of the week is automatically displayed in accordance with the date (year, month, and day) settings. 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 or when battery level drops to Level 4. Level 4

- Level 4. The current time for all city codes in the Timekeeping Mode and World Time Mode is calculated in accordance with the Greenwich Mean Time (GMT) differential for each city, based on your Home City time setting. GMT differential is calculated by this watch based on Universal Time Coordinated (UTC') data. UTC is the world-wide scientific standard of timekeeping. It is based upon carefully maintained atomic (cesium) clocks that keep time accurately to within microseconds. Leap seconds are added or subtracted as necessary to keep UTC in sync with the Earth's rotation. The reference point for UTC is Greenwich, England.

12-hour/24-hour Timekeeping Formats

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

Illumination Precautions

- The illumination provided by the light may be hard to see when viewed under direct sunlight.
 Illumination automatically turns off whenever an alarm sounds.
 Frequent use of illumination shortens the battery operating time.

Honolulu Anchorage Los Angeles Denver Chicago New York Caracas Rio De Janeiro	-11.0 -10.0 -09.0 -08.0 -07.0 -06.0 -05.0 -05.0 -04.0 -03.0	Pago Pago Papeete Nome San Francisco, Las Vegas, Vancouver, Seattle/Tacoma, Dawson City, Tijuana El Paso, Edmonton, Cuilacan Houston, Dallas/Fort Worth, New Oriteans, Mexico City, Winnipeg Montreal, Detroit, Miami, Boston, Panama City, Havana, Lima, Bogota La Paz, Santiago, Port Of Spain
Anchorage Los Angeles Denver Chicago New York Caracas	-09.0 -08.0 -07.0 -06.0 -05.0 -04.0 -03.0	Nome San Francisco, Las Vegas, Vancouver, Seattle/Tacoma, Dawson City, Tijuana El Paso, Edmortino, Culiacan Houston, Dallas/Fort Worth, New Orleans, Mexico City, Winnipeg Montreal, Deroti, Miami, Boston, Panama City, Havana, Lima, Bogota La Paz, Santiago, Port Of Spain
Los Angeles Denver Chicago New York Caracas	-08.0 -07.0 -06.0 -05.0 -04.0 -03.0	San Francisco, Las Vegas, Vancouver, Seattle/Tacoma, Dawson Cluliacan El Paso, Edmonton, Culliacan Houston, Dallas/Fort Worth, New Orleans, Mexico City, Winnipeg Montreal, Deroti, Miami, Boston, Panama City, Havana, Lima, Bogota La Paz, Santiago, Port Of Spain
Denver Chicago New York Caracas	-07.0 -06.0 -05.0 -04.0 -03.0	Seattle/Tacoma, Dawson City, Tijuana El Paso, Edmonton, Culiacan Houston, Dallas/Fort Worth, New Orleans, Mexico City, Winnipeg Montreal, Detroit, Miami, Boston, Panama City, Havana, Lima, Bogota La Paz, Santiago, Port Of Spain
Chicago New York Caracas	-06.0 -05.0 -04.0 -03.0	Houston, Dallas/Fort Worth, New Orleans, Mexico City, Winnipeg Montreal, Detroit, Miami, Boston, Panama City, Havana, Lima, Bogota La Paz, Santiago, Port Of Spain
New York Caracas	-05.0 -04.0 -03.0	New Örleans, Mexico City, Winnipeg Montreal, Detroit, Miami, Boston, Panama City, Havana, Lima, Bogota La Paz, Santiago, Port Of Spain
Caracas	-04.0 -03.0	Panama City, Havana, Lima, Bogota La Paz, Santiago, Port Of Spain
	-03.0	La Paz, Santiago, Port Of Spain
Rio De Janeiro		
		Sao Paulo, Buenos Aires, Brasilia, Montevideo
	-02.0	
	-01.0	Praia
	+00.0	Dublin, Lisbon, Casablanca, Dakar, Abidjan
London	1 +00.0	
Paris	+01.0	Milan, Rome, Madrid, Amsterdam, Algiers, Hamburg,
Berlin	1 +01.0	Frankfurt, Vienna, Stockholm
Athens		Helsinki, Istanbul, Beirut, Damascus,
Cairo	+02.0	Cape Town
Jerusalem	1	
		Kuwait, Riyadh, Aden, Addis Ababa, Nairobi, Moscow
		Shiraz
		Abu Dhabi, Muscat
		Male
		Mumbai, Kolkata, Colombo
Bangkok	+07.0	Jakarta, Phnom Penh, Hanoi, Vientiane
Hong Kong	+08.0	Singapore, Kuala Lumpur, Beijing, Taipei, Manila, Perth Ulaanbaatar
Seoul	.00.0	Pyongyang
Tokyo		
		Darwin
		Melbourne, Guam, Rabaul
Noumea		Port Vila Christchurch, Nadi, Nauru Island
	Jeddah Tehran Dubai Kabul Karachi Delhi Dhaka Yangon Bangkok Hong Kong Seoul	Jeddah 403.0 Tehran 403.5 Dubai 404.0 Kabul 404.5 Kabul 404.5 Delhi 405.5 Delhi 405.5 Daka 406.0 Yangon 406.0 Secul 408.0 Secul 409.0 Adelaide 409.5 Sydney +10.0 Noumea +11.0

Based on data as of March 2008. The rules governing global times (GMT differential and UTC offset) and summer time are determined by each individual country. In December 2007, Venezuela changed its offset from -4.0 to -4.5. Note however, that this watch displays an offset of -4.0 (the old offset) for the CCS (Caracas, Venezuela) city code