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 re-when necessary. ence

Men increasing. • 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.

Expose the watch to bright light to charge its battery before using it. You can use this watch even as its battery is being charged by exposure to bright

- Bight.
 Be sure to read "Battery" of this manual for important
 information you need to know when exposing the watch to bright light.

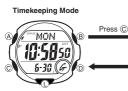
If the display of the watch is blank ..



- tch is blank...
 If the sleep indicator (SLEEP) is on the display, it means that the display is blank because the watch's Power Saving function has shut it to conserve power. Power Saving automatically turns off the display and enters a sleep state whenever your watch is left in an area where it is dark for a certain period.
 The initial factory default setting is Power Saving on.
 The watch recovers from the sleep state if you move it to a well-lit area*, if you press any button, or if you angle the watch towards your face for reading...
 It can take up to two seconds for the display to turn on.
 See "Power Saving Function" for more information.

General Guide

- Press (C) to change from mode to mode.
- In any mode, press (L) to illuminate the display.



GMT **3:58**50) 10:58 (G

World Time Mode

Radio-controlled Atomic Timekeeping



Hour : Minutes Seconds

 Includes both Standard Time and Daylight Saving Time (summer time) data.
 This watch is designed to pick up the time calibration signal transmitted from Fort Collins, Colorado (USA).
 Reception is possible within North America*.
 * The term "North America" in this User's Guide refers to the Open Content of Content of Content of Content of Content area that consists of Canada, the continental United States,

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

and Mexico. 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 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 of the range of the transmitter in Fort Collins, you need to manually adjust the time as required. See "Timekeeping" for information about manual settings.

To set your Home City



In the Timekeeping Mode, hold down (a) until the city code starts to flash, which indicates the setting screen
 Use (D)(east) and (B)(west) to select the city code you want to use as your Home City.
 The following are the city codes for major cities in

North America. LAX(P (Pacific) indicator)

L ⊟X (P (Pacific) indicator): Los Angeles, San Francisco, Las Vegas, Seattle, Vancouver, Tijuana DEN(M (Mountain) indicator): Denver, El Paso, Edmonton, Culiacan ⊂H I (C (Central) indicator): Chicago, Houston, Dallas/Fort Worth, New Orleans, Winnipeg, Mexico City NY ⊂(E (Eastern) indicator): New York, Detroit, Miami, Boston, Montreal • Note that this watch does not have a city code that corresponds to Newfoundland.

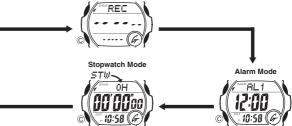
- 3. Press (A) twice to exit the setting screen. The first press of (A) displays the 12/24-hour setting screen. Pressing (A) again exits the setting screen.

- Important! Normally, your watch should show the correct time as soon as you select your Home City code. If it does not, it should adjust automatically after the next auto receive operation (in the middle of the night). You can also perform manual receive or you can set the time manually.
- can set the unite final future. If you are in an area that does not use Daylight Saving Time (summer time), turn off the DST setting.

About This Manual



- 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.



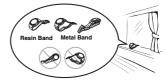
Time Recorder Mode

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 four times a day at 2:00 a.m., 3:00 a.m., 4:00 a.m., and 5:00 a.m. 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 facing towards a window Make sure there are no metal objects nearby.



The watch should not be on its side or facing the wrong way.
 Proper signal reception can be difficult or even impossible under the conditions listed below.



- Signal reception is normally explored at than during the day.
 Time calibration signal reception takes from two to six minutes, but in some cases it can take as long as 12 minutes. Take care that you do not perform any button operations or move the watch during this time



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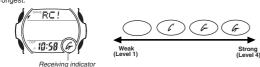
- Under good reception conditions, signal reception is possible within a radius of about 2,000 miles (3,000 kilometers) from the Fort Collins transmitter.
 At distances further than about 600 miles (1,000 kilometers) from the transmitter, signal reception may not be possible during certain times of year or times of day. Radio interferance may also cause problems with reception.
 See the information under "Signal Receive 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 2:00 a.m., 3:00 a.m., 4:00 a.m., and 5:00 a.m. each day (calibration times).

- Note
 The auto receive operation 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
- performed if a calibration time is reached while an alarm is Sounding, or while you are configuring settings (while settings are flashing on the display).
 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 six minutes evendow when the Timekeeping Mode time receives each of the
- When auto receive is turned on, the watch receives the calibration signal for two to six minutes everyday when the Timekeeping Mode time reaches each of the calibration times. Do not perform any button operation within six minutes before or after any one of the calibration times. Joing so can interfere with correct calibration. Remember that reception of the calibration signal depends on the time kept in the Timekeeping Mode. The receive operation will be performed whenever the display shows any one of the calibration times, regardless of whether or not the Timekeeping Mode time is actually the correct time. When two, three, or four receptions are successful, the watch uses the data of the last reception. About the Despine Relations.

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



- 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 receive operations.
 Following reception of the time calibration signal and calibration of the watch's time setting, the Level 4 receiving indicator will remain on the display in all modes. The Level 4 receiving indicator will not be displayed if signal reception was unsuccessful or after you adjust the current time setting manually.
- or after you adjust the current time setting manually. The Level 4 receiving indicator is displayed only when the watch is able to successfully receive both time and date data. It does not appear when only time data
- SUCCESSIUM received out time and date date in our output is received. The Level 4 receiving indicator indicates that at least one of the auto calibration signal receive operations 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

- RC 10:58 (*GY* D
- 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 (1) for about two seconds until the watch beeps.
 Release (1) and the message RCI appears to indicate that signal reception has started.
- Receiving indicato
- trait signal reception has started.
 Time calibration signal reception takes from two to six 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

- Note
 To interrupt a receive operation and return to the Timekeeping Mode, press ().
 If the receive operation 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 (). eping Mode.

To turn auto receive on and off



- nd off
 In the Timekeeping Mode, hold down (a) until the city code starts to flash, which indicates the setting screen.
 Press (b) twice to move the flashing to the auto receive on/off setting.
 Press (b) to toggle auto receive on ((f)) and off ((f)).
 If the current Home City setting is a city code that does not support signal receive, "---" appears in place of the on/off indicator. This means you cannot
- place of the on/off indicator. This means you cannot
- turn auto receive on or off. 4. Press (À) twice to exit the setting screen. For information about city codes that support signal receive, see "To set your Home City".

To display the Last Signal screen In the Timekeeping Mode, press (D) to display the Last Signal screen (indicated by GET). The Last Signal screen shows the date and time of the last successful time calibration signal reception.





Last Signal Screen

Signal Receive Troubleshooting

Check the following points whenever you experience problems with calibration signal reception.

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: LAX, DEN, CHI, or NYC. 	 Enter the Timekeeping Mode and try again. Select LAX, DEN, CHI, or NYC as your Home City.
Auto receive is turned on, but the Level 4 receiving indicator does not appear on the display.	 You changed the time setting manually. The watch was not in the Timekeeping or World Time Mode, or you performed some button operation during the auto receive operation. Even if receive is successful, the Level 4 receiving indicator disappears every day at 3 am. Time data (hour, minutes, seconds) only was received during the last receive operation. The Level 4 receiving 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 30 cities (29 time zones) around the world. For full information on city codes, see the "City Code Table"

Table". The current time for all city codes in the World Time Mode is calculated in accordance with the Greenwich Mean Time (GMT) differential for each city, based on your Home City time setting. All of the operations in this section are performed in the

World Time Mode, which you enter by pressing (C)

rent time in the selected city cod

To view the time for another city code While in the World Time Mode, press (1) to scroll through the city codes (time zones) to the east or (B) to scroll to the west.

If the current time shown for a city is wrong, check your Timekeeping Mode time and Home City settings and make the necessary changes.

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



- Saving Time setting you want to change.
 Hold down (a) to toggle Daylight Saving Time (DST indicator displayed) and Standard Time (DST indicator cat displayed).
- not displayed). The **DST** indicator is on the display whenever you display a city code for which Daylight Saving Time is turned on
- Note that the DST/Standard Time setting affects only the currently displayed city code. Other city codes are not affected.
- Daylight Saving Time (DST) advances the time setting by one hour from Standard Time. Remember that not all countries or even local areas use Daylight Saving Time.
 The watch will perform a signal receive operation even if it is in the World Time Mode when a calibration time is reached. If this happens, the World Time Mode time settings will be adjusted in accordance with the Home City time.

Time Recorder



The Time Recorder lets you store up to 30 records of the current time (month, day, hour, minutes, seconds, and DST on/off setting) with the touch of a button. One way you can use the Time Recorder is to record the start time and the end time of a particular event.

To record a Time Recorder time

- To record a Time Recorder time In the Timekeeping Mode, hold down (B) to record the Home City time (month, day, hour, minutes, seconds, and DST on/off setting). The recorded time flashes for about two seconds, and then it is assigned a record number. After that, the Timekeeping Mode screen appears. Records are assigned numbers sequentially from #01 through #30.

- Storing a new time record when there are already 30 records stored in memory automatically deletes record # 01, shifts the remaining records upwards by 1, and stores the new record as #30.
- In the Time Recorder Mode, use (D) (+) and (B) (–) to scroll through times stored in
- If you recorded a new Time Recorder time since you last entered the Time Recorder Mode, the newest record appears first. If you have not recorded a new time, the record you were viewing when you last exited the Time Recorder Mode appears first.

To delete all Time Recorder times

- In the Time Recorder Mode, hold down (A) to delete all Time Recorder times
- 2

5-30 (6) D Recorded date (Month – Day)

Recorded time Hour : Minutes Seconds)

- through #∃0.

To recall Time Recorder times

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Alarms

Alarm numbe AL1 -12:00 10;58 (*G*) D Home city time Alarm time (Hour : Minutes

To set an alarm time



AL1 12:00

7 11**0:58 (**G



2. After you select an alarm, hold down (A) until the hour Atten you select an alarm, how down is unit the hour setting of the alarm time starts to flash, which indicates the setting screen.
 This operation automatically turns on the alarm.
 Use © to move the flashing between the hour and

The Alarm Mode gives you a choice of four one-time

Also use the Alarm Mode to turn the Hourly Time Signal

(S1G) on and off.
 There are five alarms numbered RL1 through RL4, and SNZ. You can configure SNZ as a snooze alarm only. Alarms RL1 through RL4 can be used as one.

Alarm settings (and Hourly Time Signal settings) are available in the Alarm Mode, which you enter by

1. In the Alarm Mode, use (D) to scroll through the alarm

screens until the one whose time you want to set is

alarms and one snooze alarm

time alarms only.

pressing (C)

minute settings.

4. While a setting is flashing, use O (+) and B (-) to change it. 5. Press O to exit the setting screen. • 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).

Alarm Operation

A train 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, or until you turn the alarm off. • Pressing any button stops the alarm tone operation. • Performing any one of the following operations during a 5-minute interval between • Concern experience and the ourse theorem element experience.

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

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

To turn an alarm on and off Snooze on indicator

SNI MU

10:58 (G) D Alarm on indicato

10:58 🖌 🛛

Hours Sec

7:00

- modes. The alarm on indicator flashes while the alarm is
- The snooze alarm indicator flashes during the 5-minute intervals between alarms.

Stopwatch

- The stopwatch lets you measure elapsed time, split times, and two finishes. The display range of the stopwatch is 23 hours, 59 minutes, 59.99 seconds. The stopwatch continues to run, restarting from zero after it reaches its limit, until you stop it. Exiting the Stopwatch Mode while a split time is frozen on the display clears the split time and returns to elapsed time measurement. The stopwatch measurement operation continues even if you exit the Stopwatch Mode. All of the operations in this section are performed in the Stopwatch Mode, which you enter by pressing ©. onde
- STW-B ŇΗ , **88 88**°00 10<mark>:58</mark> 6 Home city time

 - 1/100 seco

To measure times with the stopwatch

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

Backlight

Auto light switch on indicator



The backlight uses an EL (electro-luminescent) panel that causes the entire display to glow for easy reading in the dark. The watch's auto light switch automatically turns on cark. The watch's auto light switch automatically turns on the backlight when you angle the watch towards your face in the dark.
The auto light switch must be turned on (indicated by *μυτο* % indicator) for it to operate.
See "Backlight Precautions" for other important information about which was the backlight.

information about using the backlight

To turn on the backlight manually In any mode, press ① to illuminate the display for about one second. • The above operation turns on the backlight regardless of

the current auto light switch setting

About the Auto Light Switch

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

Moving the watch to a position that is parallel to the ground and then tilting it towards you more than 40 degrees causes the backlight to turn on.



Warning!

- 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 activity of the activity of the activity of the auto light switch does not activity of the activity of the activity of the auto light switch does not activity of the activity of
- Also take care that sudden illumination by the auto light switch does not surprise or distract others around you. When you are wearing the watch, make sure that its auto light switch is turned off before riding on 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 any mode, hold down (\square for about two seconds to toggle the auto light switch on ($Auro \oplus$ displayed) or of ($Auro \oplus$ not displayed). The auto light switch on indicator ($Auro \oplus$) is on the display in all modes while the auto light switch is turned on.

Battery

This watch is equipped with a solar cell and a 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.

Solar ce

59

Example: Orient the watch so its face is pointing at a light source.

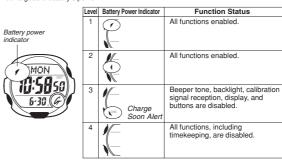
- Note that charging efficiency drops when any part of the solar cell is blocked by clothing, etc.
 The illustration shows how to position a watch with a resin band.

- 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 normally exposed to bright light
- power to run down. Be sure that the watch is normally exposed to bright light whenever possible.
 This watch employs a solar cell that converts light into electricity that charges a built-in rechargeable battery. Normally, the rechargeable battery should not need replacement, but after very long use over a number of years, the rechargeable battery may lose its ability to achieve a full charge. Should you notice problems with getting the rechargeable battery to a full charge. Should you notice problems with gitting the rechargeable battery to a full charge. Should you notice problems with getting the rechargeable battery to achieve a full charge. Contact your dealer or CASIO distributor about having the rechargeable battery replaced.
 The rechargeable battery should be replaced with a CASIO-specified CTL1616 battery only. Other rechargeable batteries can cause damage to 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 4 and when you have the battery replaced.

- to bright light when storing it for long periods. This helps to keep the rechargeable battery from going dead.

Battery Power Indicator

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



- - when you have the battery replaced. Turn on the watch's Power Saving function and keep it in an area normally exposed
- Important!

CASIO

- The Level 3 charge warning indicator tells you that battery power is very low, and
- The Level 3 charge warning indicator tells you that battery power is very low, and that exposure to bright light 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 3 from Level 4. You will not be able to configure any of the other settings until the battery reaches Level 2 after dropping to Level 4.
 Leaving the watch in direct sunlight or some other very strong light source can cause the battery power indicator to temporarily show a reading that is actually higher than the battery level. The correct battery power indicator should appear after a few minutes.
- a few minutes If you use the backlight or the alarms a number of times during a short period, the recover indicator (RECOV) appears on the display and the following operations become disabled until battery power recovers.

 - Backlight Beeper tone
 - Calibration reception

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

Charging Precautions

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

Warning

Warning:
Leaving the watch in bright light to charge its rechargeable battery can cause it to become quite hot. Take care when handling the watch to avoid burn injury.
The watch can become particularly hot when exposed to the following conditions for long periods.
On the dashboard of a car parked in direct sunlight
Too close to an incandescent lamp
Under direct sunlight

- Under direct sunlight

Charging Guide

After a full charge, timekeeping remains enabled for up to about six months, while the watch is used under the conditions described below. Watch is used under the conductors described derow. Operating Conditions • Watch is not exposed to light • Display on 18 hours per day, sleep state 6 hours per day • 1 backlight operation (1.5 seconds) per day • 10 seconds of alarm operation per day • 4 times calibration reception per day

Charge Times

Exposing the watch to light for the periods shown below each day restores the power used by the above operating conditions.

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 Eluorescent Lighting (500 lux)	8 hours

· 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 hour		14 hours	3 hours	
Sunlight Through a Window (10,000 lux)	3 hours		70 hours	14 hours	
Daylight Through a Window on a Cloudy Day (5,000 lux)	5 hours		143 hours	28 hours	
Indoor Fluorescent Lighting (500 lux)	57 hours				

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. • The watch is equipped with a Time Recorder feature that lets you record the current Home City time (month, day, hour, minutes, seconds, and DST on/off setting) with the touch of a button. See "To record a Time Recorder time" for more information.

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





Last Signal Screen

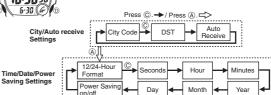
Setting the Time and Date Manually

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

To set the current time and date manually



1. In the Timekeeping Mode, hold down (A) until the city The time time time can be a set of the set



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

City/Auto Receive Settings

Screen:	To do this:	Do this:
NYC	Change the city code	Use \textcircled{D} (east) and \textcircled{B} (west).
DST RUTO	Cycle between Daylight Saving Time (OR), Standard Time (OFF), and Auto DST (RUTO)	Press D.
AUTO DA	Toggle between auto receive on (C) and off (CFF)	Press D.

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

Time/Date/Power Saving Settings

Screen:	To do this:	Do this:
1 2H	Toggle between 12-hour (1 EH) and 24-hour (EHH) timekeeping	Press D.
10:58 50	Reset the seconds to 00	Press D.
10·J058	Change the hour or minutes	Use (D) (+) and (B) (-).
'03 6∙30	Change the month, day, or year	Use (+) and (B) (-).
PS DA	Toggle the Power Saving on (Press D.

4. Use (A) to exit the setting screen.

If a City/Auto Receive Setting screen is displayed, press (a) twice.
 If a Time/Date/Power Saving Setting screen is displayed, press (a) once.

- Note Auto DST (別はての) can be selected only while HNL, ANC, LAX, DEN, CHI, or NYC 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 Tim

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 received time signal.

time signal. The default DST setting is Auto DST (月はて前) whenever you select HNL, FINC, LFIX, DEN, CHI, or NYC 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 city code starts to flash, which indicates the setting screen.
2. Press (©) and the DST setting screen appears.
3. Use (D) to cycle through the DST settings in the sequence shown below.

Auto DST (RUTD)	→[DST off (OFF)	┝	DST on (D)	Н
	_				_

4. When the setting you want is selected, press (A) twice to exit the setting screen.

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.

Auto Return Features

- If you leave the watch in the Time Recorder Mode or Alarm Mode for two or three minutes without performing any operation, it automatically returns to the
- If you leave a screen with flashing digits on the display for two or three minutes without performing any operation, the watch automatically saves anything you have input up to that point and exits the setting screen.

Data and Setting Scrolling The (6) and (6) 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 Alarm or World Time Mode, the data you were viewing when you last exited the mode appears first.

- Radio-controlled Atomic Timekeeping Precautions

 • Strong electrostatic charge can result in the wrong time being set.

 • Even when the watch is within the reception range of the transmitter, signal reception is 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
- Organ reception is an ected by weather, an uspire in conducts, and seasonal changes.
 The time calibration signal is bounced off the ionosphere. Because of this, such factors as changes in the reflectivity of the ionosphere, as well as movement of the ionosphere to higher altitudes due to seasonal atmospheric changes or the time of day may change the reception range of the signal and make reception temporarily imponcible. impossible.
- Even if the time calibration signal is received properly, certain conditions can cause
- Even if the time setting to be off by up to one second.
 The current time setting in accordance with the time calibration signal takes priority over any time settings you make.
 The warth 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 warth can receive signals that differentiate hetween learn years and ponclearn
- . 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)
- I hough 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.
 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 date 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 time), and auto receive settings. The following are the initial factory defaults for these cottinger.

settings.

Setting	Initial Factory Default	
City code	NYC (New York)	
DST (summer time)	DST (Auto switching)	
	RUTO	
Auto receive	AUTO (Auto receive)	

Timekeeping

- The day of the week is automatically displayed in month, and day) settings.
 The year can be set in the range of 2000 to 2099. week is automatically displayed in accordance with the date (year
- 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 power drops to Level 4
- Lever 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 the your Home City time setting. GMT differential is calculated by this watch based on UTC* data.
- * The letters "UTC" stands for "Universal Time Coordinated." which is the world-wide Interestors of Orsandra of Nimersaal more constrained, which is the Work-scientific standard of timekeeping. It is based upon carefully maintained atomic (cesium) clocks that keep accurate 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

- Ihe 12-hour/24-hour timekeeping format you select in the Timekeeping Mode is also applied in all other modes.
 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 a.m.
 With the 24-hour format, times are displayed in the range of 0:00 to 23:59, without wave set of 0:00 to 23:59.
- any indicator

Power Saving Function

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

Elapsed Time in Dark	Display	Operation
60 to 70 minutes	Blank, with Sleep indicator (SLEEP) flashing	All functions enabled, except for the display
6 or 7 days	Blank, with Sleep indicator (SLEEP) not flashing	Beeper tone, backlight, display, and auto receipt of the calibration signal are disabled.

Wearing the watch inside the sleeve of clothing can cause it to enter the sleep state.
The watch will not enter the sleep state between 6:00 AM and 10:59 PM. If the watch is already in the sleep state when 6:00 AM arrives, however, it will remain in the sleep state.

the sleep state.

To recover from the sleep statePerform any one of the following operations.Move the watch to a well-lit area. It can take up to two seconds for the display to turn

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

To turn Power Saving on and off

 In the Timekeeping Mode, hold down (A). This causes the city code to flash, which indicates the setting screen. Power saving on indicator



- screen.
 2. Press (a) again.
 3. Press (b) seven times until the Power Saving on/off screen appears.
 4. Press (b) to toggle Power Saving on (DR) and off (DFF).
 5. After the setting is the way you want, press (a) to exit the setting screen.
 The Power Saving on (SAVE) indicator is on the display in all modes while the Power Saving is turned on.

Backlight Precautions

The electro-luminescent panel that provides illumination loses power after very long

- use. The illumination provided by the backlight may be hard to see when viewed under direct sunlight. The watch may emit an audible sound whenever the display is illuminated. This is
- due to vibration of the EL panel used for illumination, and does not indicate malfunction
- The backlight automatically turns off whenever an alarm sounds.
 Frequent use of the backlight shortens the battery operating time

Auto light switch precautions

 Wearing the watch on the inside of your wrist as well as movement or vibration of your arm can cause the auto light switch to activate and illuminate the display. To avoid running down the battery, turn off the auto light switch whenever engaging in activities that might cause frequent illumination of the display.

More than 15 degrees too high

The backlight may not light if the face of the watch is more than 15 degrees above or below parallel. Make sure that the back of your hand is parallel to the ground.
 The backlight turns off in about one second, even if you



The backlight furths on in about one second, even if you keep the watch pointed towards your face.
 Static electricity or magnetic force can interfere with proper operation of the auto light switch. If the backlight does not light, try moving the watch back to the starting position (parallel with the ground) and then till it back towards you again. If this does not work, drop your armall the wards you again. If this does not work, drop your armall the provide your given by the provide your down on the provide your d

- all the way down so it hangs at your side, and then bring it back up again.
- Under certain conditions, the backlight may not light until about one second after you turn the face of the watch towards you. This does not necessarily indicate malfunction of the backlight.
 You may notice a very faint clicking sound coming from the watch when it is shaken back and forth. This sound is caused by mechanical operation of the auto light switch, and does not indicate a problem with the watch.

City Code Table

City Code	City	GMT Differential	Other major cities in same time zone	
		-11	Pago Pago	
HNL	Honolulu	-10	Papeete	
ANC	Anchorage	-9	Nome	
LAX	Los Angeles	-8	San Francisco, Las Vegas, Vancouver, Seattle/Tacoma, Dawson City, Tijuana	
DEN	Denver	-7	El Paso, Edmonton, Culiacan	
CHI	Chicago	-6	Houston, Dallas/Ft. Worth, New Orleans, Mexico City, Winnipeg	
NYC	New York	-5	Montreal, Detroit, Miami, Boston, Panama City, Havana, Lima, Bogota	
CCS	Caracas	-4	La Paz, Santiago, Pt. Of Spain	
RIO	Rio De Janeiro	-3	Sao Paulo, Buenos Aires, Brasilia, Montevideo	
		-2		
		-1	Praia	
GMT			Dublin, Lisbon, Casablanca, Dakar, Abidian	
LON	London	+0		
PAR	Paris		Milan, Rome, Madrid, Amsterdam, Algiers, Hamburg,	
BER	Berlin	+1	Frankfurt, Vienna, Stockholm	
ATH	Athens		Helsinki, Istanbul, Beirut, Damascus,	
CAI	Cairo	1 +2	Cape Town	
JRS	Jerusalem	1		
JED	Jeddah	+3	Kuwait, Riyadh, Aden, Addis Ababa, Nairobi, Moscow	
THR	Tehran	+3.5	Shiraz	
DXB	Dubai	+4	Abu Dhabi, Muscat	
KBL	Kabul	+4.5		
KHI	Karachi	+5	Male	
DEL	Delhi	+5.5	Mumbai, Kolkata	
DAC	Dhaka	+6	Colombo	
RGN	Yangon	+6.5		
BKK	Bangkok	+7	Jakarta, Phnom Penh, Hanoi, Vientiane	
HKG	Hong Kong	+8	Singapore, Kuala Lumpur, Beijing, Taipei, Manila, Perth Ulaanbaatar	
SEL	Seoul		Pyongyang	
TYO	Tokvo	+9		
ADL	Adelaide	+9.5	Darwin	
SYD	Sydney	+10	Melbourne, Guam, Rabaul	
NOU	Noumea	+11	Pt. Vila	
WLG	Wellington	+12	Christchurch, Nadi, Nauru Is.	

· Based on data as of June 2003