

Operation Guide 2607 2637 2687 CASIO®

Getting Acquainted

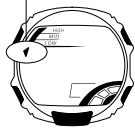
Congratulations upon your selection of this CASIO watch. To get the most out of your purchase, be sure to carefully read this manual and keep it on hand for later reference when necessary.

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 light.

- 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...

Sleep indicator

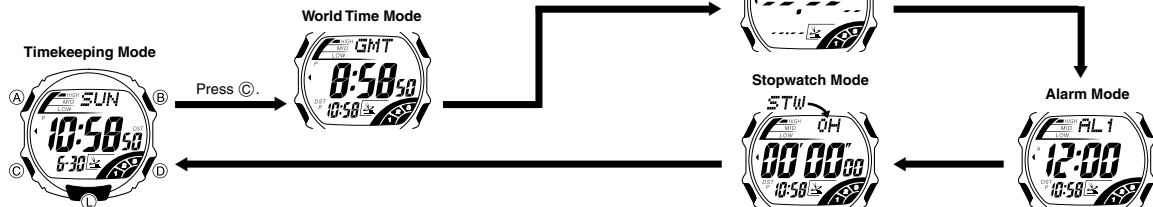


If the sleep indicator (S4/SLEEP4) is on the display, it means that the display is blank because the watch's Power Saving function has shut it off to conserve power. Power Saving automatically turns off the display and enters a sleep state whenever your watch is left in an area where it is dark for a 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

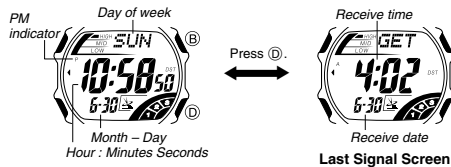
- Press (C) to change from mode to mode.
- In any mode, press (L) to illuminate the display.



Timekeeping

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

- 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.
- Pressing (D) displays the Last Signal screen (date and time that the time calibration signal was last received) in the Timekeeping Mode.



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.

- Before using the watch in Western Europe, first use the procedure under "Setting Up the Watch for Use in Western Europe" to set the time in accordance with a time calibration signal.
- Note that after you set your Home City (the city where you normally use the watch) code, you must also turn on the watch's time calibration signal receiver if you want to enable auto time calibration. See "About Auto Receive" for more information.
- See "Setting the Time and Date Manually" for information about manual settings.

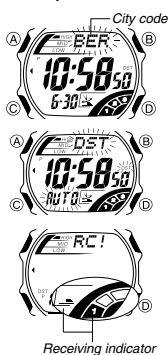
Setting Up the Watch for Use in Western Europe

You need to make the following three settings before using this watch in Western Europe. The following provides a general overview of the setting procedure. For full details, see "Setting the Time and Date Manually" and "Time Calibration Signal Reception".

- Specify the city code for your Home City (the city where you will normally use the watch).
- Select the auto Daylight Saving Time (summer time) setting.
- Perform the manual time calibration signal receive operation to set the current time.

To set up the watch for use in Western Europe

1. In the Timekeeping Mode, hold down (A) until the city code starts to flash, which indicates the setting screen.
2. Use (C) (+) and (B) (-) to select the city code you want to use as your Home City.
 - The following are the city codes for major cities in the Western Europe time zones.
 - **BER** and **PAR**: Berlin, Paris, Milan, Rome, Amsterdam, Hamburg, Frankfurt, Vienna
 - **LON**: London
3. Press (C) and the Daylight Saving Time (summer time) setting screen appears.
4. Use (C) to select **AUTO** (auto DST).
 - Auto DST specifies auto switching between Daylight Saving Time (DST) and Standard Time.
5. Press (A) twice to exit the setting screen.
6. Hold down (D) for about two seconds until the watch beeps.
 - Release (D) and the message **RC!** appears to indicate that signal reception has started.
 - Time calibration signal reception takes from two to six minutes. Take care that you do not move the watch during this time.



Receiving indicator

About This Manual

- The operational procedures for Modules 2607, 2637 and 2687 are identical. All of the illustrations in this manual show Module 2607.
- 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

REC

Time Recorder Mode

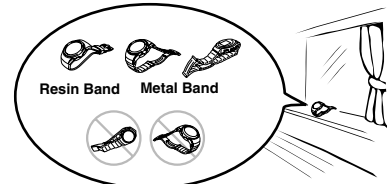
STOPWATCH MODE

STW

ALARM MODE

AL1

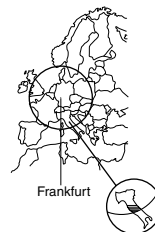
- When getting ready to receive the time calibration signal, position the watch as shown in the nearby illustration, and place it near a window in a location where there are no nearby metal objects.



- The watch should not be on its side or facing the wrong way.
- See the information under "Time Calibration Signal Reception Precautions" if you experience problems with time calibration signal reception.
- After signal reception is complete, the display of the watch changes to the Last Signal screen.

Time Calibration Signal Reception

This watch is designed to pick up a time calibration signal and update its time setting in accordance with the signal. There are two different methods you can use to receive the signal: **Auto Receive** and **Manual Receive**. With **Auto Receive**, the watch automatically receives the calibration signal four times each day and makes appropriate adjustments. With **Manual Receive**, you perform a specific button operation to receive the calibration signal.



- This watch is able to receive the time calibration signal transmitted from Mainflingen, Germany (located 25 kilometers southeast of Frankfurt). Signal reception is possible within the area represented by a circle with a radius of about 1000 kilometers.
- At distances further than about 500 kilometers, the signal may become weak and reception may be impossible under certain conditions.
- Signal reception may be poor in the shaded area on the map, even though it is within 1,000 kilometers of the signal transmitter.

Note

- If you are using the time calibration signal to set the time for this watch, be sure to correctly set your Home City. Otherwise, there is the chance that the watch will not set the correct time. See "Setting the Time and Date Manually" for details.
- Note that signal reception is possible only when the watch is within range of a time calibration signal transmitter, and **BER**, **PAR**, **LON**, or **ATH** is selected as the Home City code.
- See "City Code Table" for a complete list of available city codes.
- The current time setting in accordance with the time calibration signal takes priority over any time settings you make.
- Auto receive is turned on when the watch is shipped from the factory.
- See the information under "Time Calibration Signal Reception Precautions" if you experience problems with time calibration signal reception.

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To perform manual time calibration signal reception



Receiving indicator

- 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 (D) for about two seconds until the watch beeps.
- Release (D) and the message **RC!** appears to indicate that signal reception has started.
- Time calibration signal reception takes from two to six minutes. Take care that you do not move the watch during this time.
- After signal reception is complete, the display of the watch changes to the Last Signal screen.
- The Level 4 receiving indicator indicates that the time calibration reception attempt was successful.

Note

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

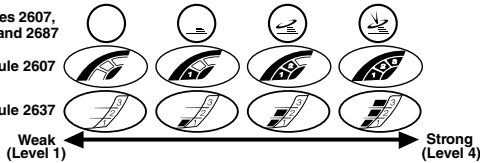
About the Receiving Indicator

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.

Modules 2607, 2637, and 2687

Module 2607

Module 2637



- 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.

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 AM, 3:00 AM, 4:00 AM, and 5:00 AM each day (calibration times).

Note

- The auto receive operation is performed only if the watch is in the Timekeeping or World Time Mode when one of the calibration times is reached. It is not performed if a calibration time is reached while you are making settings (while settings are flashing on the display) or while an alarm is sounding.
- 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.
- The Level 4 receiving indicator indicates that either the 2:00 AM, 3:00 AM, 4:00 AM or 5:00 AM calibration signal reception was successful. Note, however, that the Level 4 receiving indicator is cleared from the display at 3:00 AM each day.
- If you do not see the Level 4 receiving indicator except for the above reason, it means there was some problem with the calibration reception operation. Either perform reception manually, or make sure the watch is set up properly to receive the time calibration signal for the next automatic reception time.
- 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.
- 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 is received.
- 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.
- When auto receive is turned on, the watch receives the calibration signal for two to six minutes each day when the Timekeeping Mode time reaches 2:00 AM, 3:00 AM, 4:00 AM, and 5:00 AM. Do not operate any of the watch's buttons within six minutes prior to or following the calibration times. Doing 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 2:00 AM, 3:00 AM, 4:00 AM, and 5:00 AM, 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 for calibration. When only one reception is successful, the watch uses the data of the successful reception.

To turn auto receive on and off



- In the Timekeeping Mode, hold down (A) until the city code starts to flash, which indicates the setting screen.
- Press (C) twice to move the flashing to the auto receive on/off setting.
- Press (D) to toggle auto receive on (**ON**) and off (**OFF**).
 - 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 turn auto receive on or off.
- Press (A) twice to exit the setting screen.
 - For information about city codes that support signal receive, see "To set up the watch for use in Western Europe".

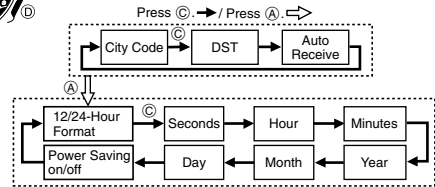
Setting the Time and Date Manually

Make sure you select your Home City code (the city code whose time and date you are setting) before 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



- In the Timekeeping Mode, hold down (A) until the city code starts to flash, which indicates the setting screen.
- Press (A) or (C) to move the flashing in the sequence shown below to select other settings.



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

Setting	Screen	Button Operations
City code	BER	Use (D) (+) and (B) (-) to change the setting.
DST	OFF	Press (D) to toggle between Daylight Saving Time (ON) and Standard Time (OFF). • Pressing (D) performs a different operation when BER , PAR , LON or ATH is selected as Home City Code. See "Auto DST (Summer Time) Switching".
Auto Receive	ON	Press (D) to toggle auto receive on and off.
12/24-Hour format	12H	Press (D) to toggle between 12-hour (12H) and 24-hour (24H) timekeeping.
Hour, Minutes	10:58 ⁵⁹	Use (D) (+) and (B) (-) to change the setting.
Seconds		Press (D) to reset the seconds to 00 .
Year	' 02	Use (D) (+) and (B) (-) to change the setting.
Month, Day	6-30	
Power Saving on/off	ON	Press (D) to toggle the Power Saving on (ON) and off (OFF).

- Press (A) to exit the setting screen.

The auto receive setting is used for time calibration signal reception only. See "About Auto Receive" for details.

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

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.

World Time



Home city time
Current time in the selected city code

World Time shows the current time in 30 cities (29 time zones) around the world.

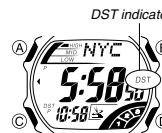
- For full information on city codes, see the "City Code Table".
- The current time for all city codes in the World Time Mode is calculated in accordance with the Greenwich Mean Time (GMT) differential for each city, based on the your Home City time setting.
- All of the operations in this section are performed in the World Time Mode, which you enter by pressing (C).

To view the time in another city code

While in the World Time Mode, press (D) 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.

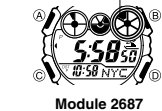
To toggle a city code time between Standard Time and Daylight Saving Time



Module 2607



Module 2637

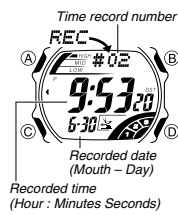


Module 2687

- 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 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 the 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.

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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**
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.

To recall Time Recorder times

In the Time Recorder Mode, use (D) (+) and (B) (-) to scroll through times stored in memory.

- 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.

Alarms



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

- There are five alarms numbered AL1 through AL4, and SNZ. You can configure SNZ as a snooze alarm only. Alarms AL1 through AL4 can be used as one-time alarms only.
- Alarm settings (and Hourly Time Signal settings) are available in the Alarm Mode, which you enter by pressing (C).

To set an alarm time



- In the Alarm Mode, use (D) to scroll through the alarm screens until the one whose time you want to set is displayed.
-
- After you select an alarm, hold down (A) until the hour setting of the alarm time starts to flash, which indicates the setting screen.
 - This operation automatically turns on the alarm.
 - Use (C) to move the flashing between the hour and minute settings.
 - While a setting is flashing, use (D) (+) and (B) (-) to change it.
 - Press (A) 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. (A indicator) or p.m. (P indicator).

Alarm Operation

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

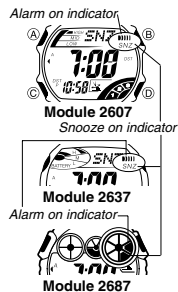
- Pressing any button stops the alarm tone operation.
- Performing any one of the following operations during a 5-minute interval between snooze alarms cancels the current snooze alarm operation.

Displaying the Timekeeping Mode setting screen
Displaying the snooze alarm setting screen

To test the alarm

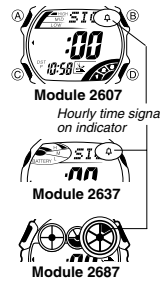
In the Alarm Mode, hold down (B) to sound the alarm.

To turn an alarm on and off



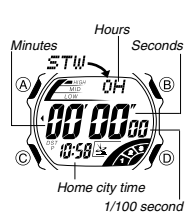
- In the Alarm Mode, use (D) to select an alarm.
- Press (B) to toggle it on and off.
- Turning on a one-time alarm (AL1, AL2, AL3, AL4) displays the alarm on indicator on its Alarm Mode screen. Turning on the snooze alarm (SNZ) displays the alarm on indicator and snooze alarm indicator on its Alarm Mode screen.
- In all modes, the alarm on indicator is shown for any alarm that is currently turned on. When the snooze alarm is on, the snooze alarm indicator is displayed in all modes.
- The alarm on indicator flashes while the alarm is sounding.
- The snooze alarm indicator flashes during the 5-minute intervals between alarms.

To turn the Hourly Time Signal on and off



- In the Alarm Mode, use (D) to select the Hourly Time Signal (SIG).
 - Press (B) to toggle it on (Hourly Time Signal on indicator displayed) and off (Hourly Time Signal on indicator not displayed).
- The Hourly Time Signal on indicator is displayed in all modes when the Hourly Time Signal is turned on.

Stopwatch

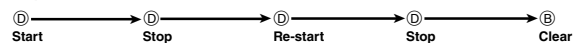


The stopwatch lets you measure elapsed time, split times, and two finishes.

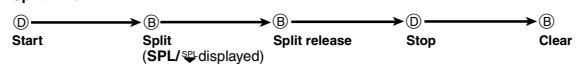
- The display range of the stopwatch is 23 hours, 59 minutes, 59.99 seconds.
- The stopwatch continues to run, restarting from zero after it reaches its limit, until you stop it.
- Exiting the Stopwatch Mode while a split time is frozen on the display clears the split time and returns to elapsed time 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 (C).

To measure times with the stopwatch

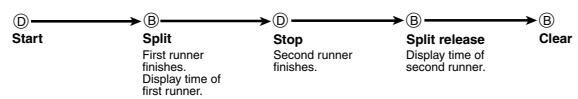
Elapsed Time



Split Time



Two Finishes



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 the backlight when you angle the watch towards your face in the dark.

- The auto light switch must be turned on (indicated by the auto light switch on indicator) for it to operate.
- See "Backlight Precautions" for other important information about using the backlight.

To turn on the backlight manually

In any mode, press (L) 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!

- 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 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.

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To turn the auto light switch on and off

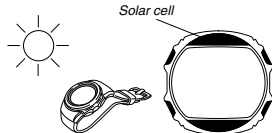
In any mode, hold down \odot for about two seconds to toggle the auto light switch on (auto light switch on indicator displayed) or off (auto light switch on indicator not displayed).

- The auto light switch on indicator is on the display in all modes while the auto light switch is turned on.

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.

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.

Important!

- Storing the watch for long periods in an area where there is no light or wearing it in such a way that it is blocked from exposure to light can cause rechargeable battery power to run down. Be sure that the watch is 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, 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.
- Turn on the watch's Power Saving function and keep it in an area normally exposed to bright light when storing it for long periods. This helps to keep the rechargeable battery from going dead.

Battery Power Indicator

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

Level	Battery Power Indicator	Function Status
1	Module 2607 2637 2687 	All functions enabled.
2		All functions enabled.
3		Beeper tone, backlight, calibration signal reception, display, and buttons are disabled.
4		All functions, including timekeeping, are disabled.

- 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.
- If you use the backlight or the alarms a number of times during a short period, the recover indicator (R4/RECOVER4) 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 (R4/RECOVER4) 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!

Leaving the watch in bright light to charge its rechargeable battery can cause it to become quite hot. Take care when handling the watch to avoid burn injury. The watch can become particularly hot when exposed to the following conditions for long periods.

- On the dashboard of a car parked in direct sunlight
- Too close to an incandescent lamp
- Under direct sunlight

Charging Guide

After a full charge, timekeeping remains enabled for up to about six months, while the watch is used under the conditions described below.

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 Fluorescent 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 (Brightness)	Approximate Exposure Time			
	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	-----	-----	

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

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 Timekeeping Mode.
- 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 \odot and \odot 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.

Time Calibration Signal Reception Precautions

- Reception is best when the antenna built into the 12 o'clock edge of the watch is facing in the general direction of the signal transmitter. Note, however, that moving the watch while the time calibration signal receive operation is taking place will make stable reception impossible.
- Proper signal reception can be difficult or even impossible under the conditions listed below.



- Inside or among buildings
- Inside a vehicle
- Near household appliances or office equipment
- Near a construction site, airport, or other sources of electrical noise
- Near high-tension power lines
- Among or behind mountains

- Radio interference can make signal reception impossible.
- 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 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 impossible.
- 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.
- 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.

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- Check the following points whenever you experience problems with your watch.

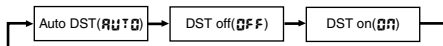
Problem	Probable Cause	What you should do
Cannot perform manual receive.	<ul style="list-style-type: none"> • The watch is not in the Timekeeping Mode. • You do not select one of the following City Codes as your Home City Code: BER, PAR, LON, or ATH. 	<ul style="list-style-type: none"> • Enter the Timekeeping Mode and try again. • Select the correct Home City Code.
Auto receive is turned on, but the Level 4 receiving indicator does not appear on the display.	<ul style="list-style-type: none"> • 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 signal receive operation was performed. • Even if receive is successful, the Level 4 receiving indicator disappears every day at 3am. • 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. 	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Change the DST setting to Auto DST. • Select the correct Home City Code.

Auto DST (Summer Time) Switching

- The time calibration signal transmitted from Mainflingen, Germany includes both Standard Time and Daylight Saving Time (summer time) data. When auto DST (summer time) switching is turned on, the watch switches between Standard Time and DST (summer time) automatically in accordance with the calibration signal.
- 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.
 - When using the watch within the reception range of the Mainflingen transmitter, and **BER, PAR, LON, or ATH** is selected as the Home City code, select Auto DST to turn on the auto DST (summer time) setting.
 - The default DST setting is Auto DST whenever you select **BER, PAR, LON** or **ATH** 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.
 - See "To set the current time and date manually" for information about configuring DST (summer time) settings 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 **(C)** and the DST (summer time) setting screen appears.
3. Use **(D)** 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.

Timekeeping

- 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 power drops to 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 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 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 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 the **A** (AM) indicator appears for times in the range of midnight to 11:59 a.m.
 - With the 24-hour format, times are displayed in the range of 0:00 to 23:59, without any indicator.

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.

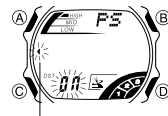
Elapsed Time in Dark	Display	Operation
60 to 70 minutes	Blank, with Sleep indicator (S/SLEEP) flashing	All functions enabled, except for the display
6 or 7 days	Blank, with Sleep indicator (S/SLEEP) not flashing	Beeper tone, backlight, display, and auto receipt of the calibration signal are disabled.

- 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.

To recover from the sleep state

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

To turn Power Saving on and off



Power saving on indicator

1. In the Timekeeping Mode, hold down **(A)**. This causes the city code to flash, which indicates the setting screen.
 2. Press **(A)** again.
 3. Press **(C)** seven times until the Power Saving on/off screen appears.
 4. Press **(D)** to toggle Power Saving on (**PS**) and off (**PSF**).
 5. After the setting is the way you want, press **(A)** to exit the setting screen.
- The Power Saving on 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.
- 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 screen.
- The backlight turns off 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 tilt it back toward you again. If this does not work, drop your arm all the way down so it hangs at your side, and then bring it back up again.

More than 15 degrees too high



- 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, DAWSON CITY
DEN	DENVER	-7	EL PASO, EDMONTON
CHI	CHICAGO	-6	HOUSTON, DALLAS/FORT 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, PORT OF SPAIN
RIO	RIO DE JANEIRO	-3	SAO PAULO, BUENOS AIRES, BRASILIA, MONTEVIDEO
---		-2	
---		-1	PRAIA
GMT		+0	DUBLIN, LISBON, CASABLANCA, DAKAR, ABIDJAN
LON	LONDON		
PAR	PARIS	+1	MILAN, ROME, MADRID, AMSTERDAM, ALGIERS
BER	BERLIN		HAMBURG, FRANKFURT, VIENNA, STOCKHOLM
ATH	ATHENS		HELSINKI, ISTANBUL, BEIRUT, DAMASCUS, CAPE TOWN
CAI	CAIRO	+2	
JRS	JERUSALEM		
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
TYO	TOKYO	+9	PYONGYANG
SEL	SEOUL		
ADL	ADELAIDE	+9.5	DARWIN
SYD	SYDNEY	+10	MELBOURNE, GUAM, RABAU
NOU	NOUMEA	+11	PORT VILA
WLG	WELLINGTON	+12	CHRISTCHURCH, NADI, NAURU ISLAND

- Based on data as of December 2002.