

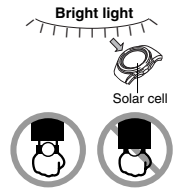
# Operation Guide 3784 4384

CASIO®

## Getting Acquainted

Congratulations upon your selection of this CASIO watch. To get the most out of your purchase, be sure to read this manual carefully.

### Keep the watch exposed to bright light

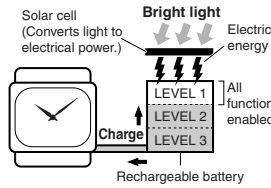


The electricity generated by the solar cell of the watch is stored by a built-in battery. Leaving or using the watch where it is not exposed to light causes the battery to run down. Make sure the watch is exposed to light as much as possible.

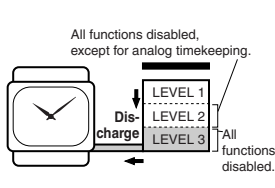
- When you are not wearing the watch on your wrist, position the face so it is pointed at a source of bright light.
- You should try to keep the watch outside of your sleeve as much as possible. Charging is reduced significantly if the face is only partially covered.

- 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.

### Battery charges in the light.

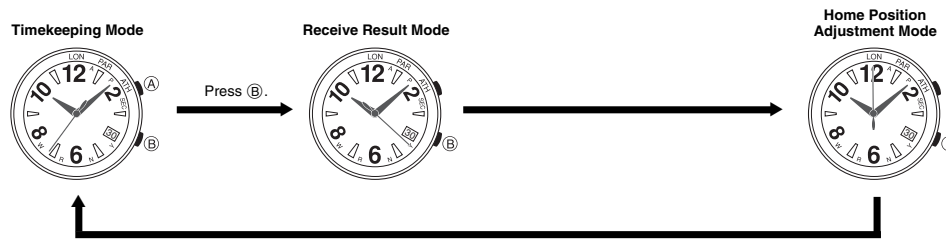


### Battery discharges in the dark.



## General Guide

- Press (B) to change from mode to mode.



## Radio-controlled 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.

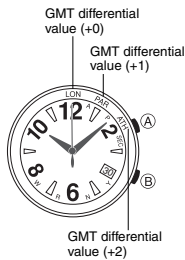
- This watch is designed to pick up the time calibration signal transmitted in Germany (Mainflingen) and England (Rugby).

### Current Time Setting

This watch adjusts its time setting automatically 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 specify your Home Time Zone, which is the time zone where you will normally use the watch. For more information, see "To specify your Home Time Zone" below.
- When using the watch outside the range of the Germany and England time signal transmitters, you have to adjust the current time setting manually as required. See "Timekeeping" for more information about manual time settings.

### To specify your Home Time Zone



1. In the Timekeeping Mode, hold down (A) for about five seconds until the second hand moves to the currently selected GMT differential value and stops. This is the setting mode.
  - The GMT differential value indicates the time difference in hours between Greenwich Mean Time and the currently selected time zone.
2. Press (B) to select the time zone you want to use as your Home Time Zone.
  - GMT+ 0 (12 o'clock): London
  - GMT+ 1 (1 o'clock): Paris, Berlin, Milan, Rome, Amsterdam, Hamburg, Frankfurt, Vienna, Barcelona, Madrid
  - GMT+2 (2 o'clock): Athens
3. Press (A) eight times to exit the setting mode.
  - The watch will also return to the Timekeeping Mode if you do not perform any operation for about two or three minutes.

- Normally, your watch should show the correct time as soon as you specify your Home Time Zone. 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.
- Even if the time calibration signal is received correctly, there are some times when the analog hands may not indicate the correct time. If this happens, use the procedures under "Adjusting the Home Positions" to check the home positions of the hands, and make adjustments as required.
- The watch will receive the time calibration signal automatically from the applicable transmitter (in the middle of the night) and update its settings accordingly. For information about the relationship between time zones (GMT differential values) and transmitters, see "Transmitters".
- See the maps under "Reception Ranges" for information about the reception ranges of the watch.

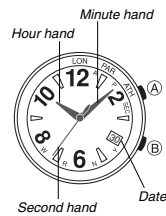
- The actual level at which some functions are disabled depends on the watch model.
- **Be sure to read "Power Supply" for important information you need to know when exposing the watch to bright light.**

### If the analog hands aren't moving...

If the analog hands aren't moving, it means that the power saving mode has stopped them to save battery power.

- See "Power Saving" for more information.
- The hands also stop whenever the battery level reaches Level 3.

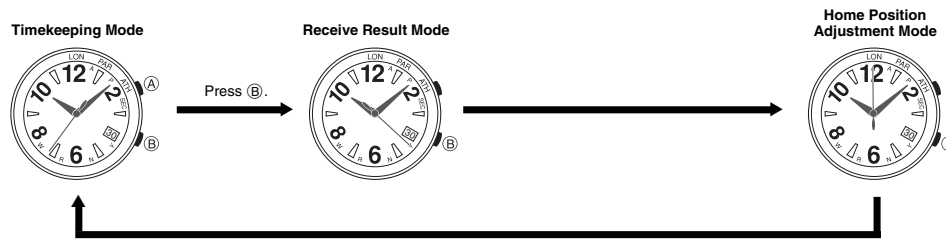
### About This Manual



- 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.

## General Guide

- Press (B) to change from mode to mode.



## Radio-controlled 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.

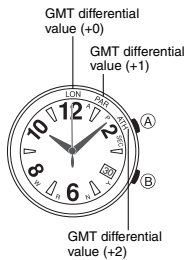
- This watch is designed to pick up the time calibration signal transmitted in Germany (Mainflingen) and England (Rugby).

### Current Time Setting

This watch adjusts its time setting automatically 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 specify your Home Time Zone, which is the time zone where you will normally use the watch. For more information, see "To specify your Home Time Zone" below.
- When using the watch outside the range of the Germany and England time signal transmitters, you have to adjust the current time setting manually as required. See "Timekeeping" for more information about manual time settings.

### To specify your Home Time Zone



1. In the Timekeeping Mode, hold down (A) for about five seconds until the second hand moves to the currently selected GMT differential value and stops. This is the setting mode.
  - The GMT differential value indicates the time difference in hours between Greenwich Mean Time and the currently selected time zone.
2. Press (B) to select the time zone you want to use as your Home Time Zone.
  - GMT+ 0 (12 o'clock): London
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3. Press (A) eight times to exit the setting mode.
  - The watch will also return to the Timekeeping Mode if you do not perform any operation for about two or three minutes.

- Normally, your watch should show the correct time as soon as you specify your Home Time Zone. 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.
- Even if the time calibration signal is received correctly, there are some times when the analog hands may not indicate the correct time. If this happens, use the procedures under "Adjusting the Home Positions" to check the home positions of the hands, and make adjustments as required.
- The watch will receive the time calibration signal automatically from the applicable transmitter (in the middle of the night) and update its settings accordingly. For information about the relationship between time zones (GMT differential values) and transmitters, see "Transmitters".
- See the maps under "Reception Ranges" for information about the reception ranges of the watch.

### Time Calibration Signal Reception

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

#### • Auto Receive

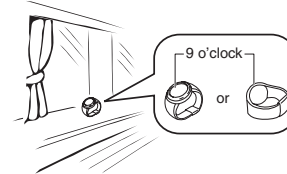
With auto receive, the watch receives the time calibration signal automatically up to six times a day. When any auto receive is successful, the remaining auto receive operations are not performed. For more information, see "About Auto Receive".

#### • Manual Receive

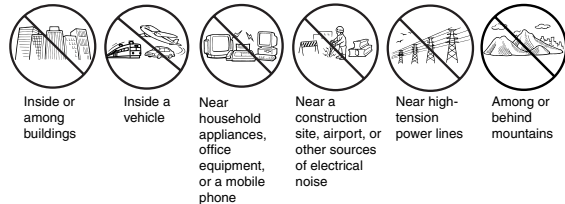
Manual receive lets you start a time calibration receive operation with the press of a button. For more information, see "To perform manual receive".

#### Important!

- When getting ready to receive the time calibration signal, position the watch as shown in the nearby illustration, with its 9 o'clock side facing towards a window. Make sure there are no metal objects nearby.



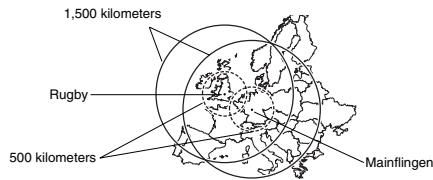
- Make sure the watch is facing the right way.
- Proper signal reception can be difficult or even impossible under the conditions listed below.



- Signal reception is normally better at night than during the day.
- Time calibration signal reception takes from two to seven minutes, but in some cases it can take as long as 14 minutes. Take care that you do not perform any button operations or move the watch during this time.

- When within range of the applicable transmitter, this watch can receive either the Germany (Mainflingen) or England (Rugby) time calibration signals. See "Transmitters" for more information.

### Reception Ranges



- At distances further than about 500 kilometers from a transmitter, signal reception may not be possible during certain times of year or times of day. Radio interference 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.
- Signal reception is affected by weather, atmospheric conditions, and seasonal changes.
- See the information under "Signal Reception Troubleshooting" if you experience problems with time calibration signal reception.

### About Auto Receive

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

Your Home Time Zone		Auto Receive Start Times					
		1	2	3	4	5	6
GMT +0	Standard Time	1:00 am	2:00 am	3:00 am	4:00 am	5:00 am	Midnight
	Daylight Saving Time	2:00 am	3:00 am	4:00 am	5:00 am	Midnight	1:00 am next day
GMT +1	Standard Time	2:00 am	3:00 am	4:00 am	5:00 am	Midnight	1:00 am next day
	Daylight Saving Time	3:00 am	4:00 am	5:00 am	Midnight	1:00 am next day	2:00 am next day
GMT +2	Standard Time	3:00 am	4:00 am	5:00 am	Midnight	1:00 am next day	2:00 am next day
	Daylight Saving Time	4:00 am	5:00 am	Midnight	1:00 am next day	2:00 am next day	3:00 am next day

### Note

- The auto receive operation is performed only if the watch is in the Timekeeping Mode when one of the calibration times is reached. It is not performed if a calibration time is reached while you are configuring settings.
- 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 receive the signal easily.
- The watch receives the calibration signal for two to 14 minutes everyday when the time in the Timekeeping Mode reaches each of the calibration times. Do not perform any button operation within 14 minutes before or after any one of the calibration times. Doing so can interfere with correct calibration.
- Remember that reception of the calibration signal depends on the current time in the Timekeeping Mode.

### To perform manual receive

- Place the watch on a stable surface so its 9 o'clock side is facing towards a window.
- In any mode, hold down **(B)** for about two seconds until the watch beeps.
- When you release **(B)**, the second hand will move to **R** (ready) to indicate that the watch is setting up for time calibration reception.
  - The second hand will move to **W** (work) and stay there while actual reception is in progress.
  - The hour and minute hands continue to keep time normally.
  - Time calibration signal reception takes from two to seven minutes, but in some cases it can take up to 14 minutes. Take care that you do not perform any button operations or move the watch during this time.
  - If reception is successful, the second hand will move to **Y** (yes). One or two minutes later, the hands will move to the correct time.

### Note

- To interrupt a receive operation and return to the Timekeeping Mode, press any button.
- If reception is not successful, the second hand will move to **N** (no). One or two minutes later, the second hand will resume normal operation, without any adjustment of the hand setting.
- If the second hand is pointing to **Y** (yes) or **N** (no), you can return to the Timekeeping Mode by pressing any button.

### Viewing the Latest Signal Reception Results

You can use the Receive Result Mode to check if signal reception was performed correctly.

#### To check the latest signal reception results



- Enter the Receive Result Mode.
- If the watch was able to perform a successful signal receive operation since midnight, the second hand will move to **Y** (yes). If the watch has been unable to receive any signal successfully, the second hand will move to **N** (no).
  - To return to the Timekeeping Mode, press **(B)** twice.
  - The current receive result is cleared when the first auto receive operation is performed on the following day. This means **Y** (yes) indicates successful signal reception since the start of the current day.
  - Y** (yes) continues to be indicated even if an attempt at manual receive fails after auto receive is successful.
  - If you adjust the time or date setting manually, the second hand will move to **N** (no).

### Signal Reception Troubleshooting

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

Problem	Probable Cause	What you should do
The second hand is pointing at <b>N</b> (no).	<ul style="list-style-type: none"> <li>You changed the time setting manually.</li> <li>The watch was not in the Timekeeping Mode, or you performed some button operation during the auto receive operation.</li> <li>Signal reception results are reset at midnight each day.</li> </ul>	<ul style="list-style-type: none"> <li>Perform manual signal receive or wait until the next auto signal receive operation is performed.</li> <li>Check to make sure the watch is in a location where it can receive the signal.</li> </ul>
Time setting is incorrect following signal reception.	<ul style="list-style-type: none"> <li>The Home Time Zone setting is not correct for the area where you are using the watch.</li> </ul>	<ul style="list-style-type: none"> <li>Select the correct Home Time Zone.</li> </ul>

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

### Adjusting the Home Positions

If the time and date settings are wrong even after the time calibration signal is received normally, use the following procedure to adjust their home positions.

#### To adjust the home positions



Correct second hand home position



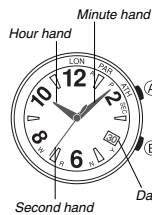
Correct hour and minute hand home position



Correct date home position

- Enter the Home Position Adjustment Mode.
  - If the home position of the second hand is currently correct, it will move to the 12 o'clock position.
- While in the Home Position Adjustment Mode, hold down **(A)** for about five seconds. This will cause the second hand to make one revolution and stop at its current home position.
  - The analog hands do not keep time during home position adjustment.
- Check the position of the second hand.
  - The second hand home position is correct if it is pointing at 12 o'clock.
  - If the second hand is not pointing at 12 o'clock, it means that its home position is off. If this happens, press **(B)** to move the second hand clockwise in one-second steps, until it points at 12 o'clock.
- Press **(A)** to advance to hour and minute hand home position adjustment.
  - If current hour and minute hand alignment is correct, they will both move to 12 o'clock.
- Check the position of the hour and minute hands.
  - If the hour and minute hands are not pointing at 12 o'clock, it means that their home position is off. If this happens, press **(B)** to move the hour and minute hands clockwise in 10-second steps, until they point at 12 o'clock.
  - You can change the hour and minute hand movement direction to counterclockwise by pressing **(A)**. After that, each press of **(B)** will move the hour and minute hands counterclockwise in 10-second steps.
- Press **(A)** to advance to date home position adjustment.
  - The date indicator will show **◀** if the date home position is correct. Note that it can take up to 90 seconds before **◀** appears.
- Check the date indicator.
  - If the date indicator shows something other than **◀**, it means that the date home position is off. If this happens, press **(B)** to advance the date until **◀** appears.
    - ◀** is located between 31 and 1.
- Press **(A)** to exit home position adjustment.
  - This causes the date to change to the current date, and the hour and minute hands to move to the current time.
  - Note that all button operations are disabled while the date is changing, and the hour and minute hands are moving.
  - To return to the Timekeeping Mode, press **(B)**.
  - After you complete the home position adjustment procedure, place the watch in a location that allows good time calibration signal reception, and then perform a manual receive operation. See "To perform manual receive" for more information.

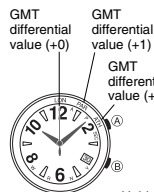
## Timekeeping



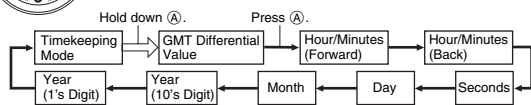
Use the Timekeeping Mode to set and view the current time and date. This section also explains how to set the current date and time manually.

- If you become confused and lose your way during the following procedures, simply put the watch down and do not perform any button operation for two or three minutes. This will cause the watch to enter the Timekeeping Mode (indicated by normal one-second movement of the second hand) automatically. After that, you can try performing the manual setting procedure again from the beginning.
- All of the operations in this section are performed in the Timekeeping Mode, which you enter by pressing **(B)**.

### To set the time and date manually



- In the Timekeeping Mode, hold down **(A)** for about five seconds.
  - This will cause the second hand to move to 12 o'clock, 1 o'clock, or 2 o'clock, depending on the currently selected GMT differential setting. This is the setting mode.
  - The GMT differential value indicates the time difference in hours between Greenwich Mean Time and the currently selected time zone.
  - The hour and minute hands do not move in the setting mode.
- Press **(A)** to cycle through settings in the sequence shown below.



- Select the setting you want to change, and then use **(B)** to change it as shown below.

To do this:	While the second hand is here:	Do this:
Change the time zone	12 o'clock (GMT+0), 1 o'clock (GMT+1), or 2 o'clock (GMT+2)	Use <b>(B)</b> (+).
Move the hour and minute hands clockwise one minute	<b>A</b> (AM) or <b>P</b> (PM)	Use <b>(B)</b> (+).
Move the hour and minute hands counterclockwise one minute	<b>A</b> (AM) or <b>P</b> (PM)	Use <b>(B)</b> (-).
Reset the seconds to 00	<b>SEC</b>	Press <b>(B)</b> .

- Pressing **(B)** while the seconds setting is selected will cause the second hand to move to 00 seconds. This also advances the minute by one, resets the seconds count to 00, and exits the setting mode automatically.
- If you want to change the year, month, and day setting after resetting the seconds, re-enter the setting mode from step 1.



To do this:	While the second hand is here:	Do this:
Change the day	12 o'clock	Use <b>(B)</b> (+).
Change the month	Current month	
Change the year	10's digit of current year 1's digit of current year	

- When setting the day, the watch automatically will skip days (30 and 31) that are not included in the currently selected month. If you can't select 30 or 31 when you want to, check to make sure that the proper month is selected.

### Setting the Month



- After setting the 1's digit of the year, press **(A)** to exit the setting mode.
- This will cause the hands to move to the current time, and resume normal movement.
- Make sure that you set the time correctly as **A** or **P** (as indicated by the second hand) when setting the time. The second hand will move between **A** and **P** any time the hour hand moves past 12 o'clock while you are setting the time.

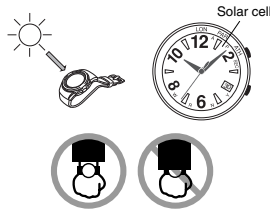
### Setting the Year

## 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 is pointing at a light source.

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



### 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 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 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 3 and when you have the battery replaced.
- Keep the watch 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 Levels

The movement of the analog hands indicates the current battery power level.



Jumps 2 seconds

Level	Hand Movement	Function Status
1	Normal.	All functions enabled.
2	• Second hand jumps every 2 seconds. • Date changes to home position at midnight.	All functions disabled, except for analog timekeeping.
3	• Second hand stopped. • Hour and minute hands stopped at 12 o'clock.	All functions disabled.

- The second hand jumping every two seconds (Level 2) indicates that battery power is quite low. Expose the watch to light as soon as possible to charge the battery.
- When battery power is at Level 2, time calibration signal reception is disabled.
- At Level 3, all functions are disabled and settings return to their initial factory defaults. The analog hands will move to the current time and normal timekeeping will resume when the battery is recharged sufficiently.

## 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.

### 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 four 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)	6 minutes
Sunlight through a window (10,000 lux)	30 minutes
Daylight through a window on a cloudy day (5,000 lux)	48 minutes
Indoor fluorescent lighting (500 lux)	8 hours

- Since these are the specs, we can include all the technical details.
  - Watch is not exposed to light
  - Internal timekeeping
  - Analog hands operational 18 hours per day, sleep state 6 hours per day
  - 1 time calibration reception per day
- Stable operation is promoted by frequent exposure to light.

## Recovery Times

The table below shows the amount exposure that is required to take the battery from one level to the next.

Exposure Level (Brightness)	Approximate Exposure Time		
	Level 3	Level 2	Level 1
Outdoor sunlight (50,000 lux)	1 hour	18 hours	
Sunlight through a window (10,000 lux)	3 hours	89 hours	
Daylight through a window on a cloudy day (5,000 lux)	4 hours	---	
Indoor fluorescent lighting (500 lux)	55 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 Home Position Adjustment Mode for two or three minutes without performing any operation, it returns to the Timekeeping Mode automatically.
- If you do not perform any operation for about two or three minutes while a setting mode is selected, the watch will exit the setting mode automatically.

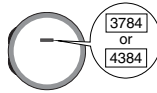
### Scrolling

- The **(B)** button is used to change the hand setting in various setting modes. In most cases, holding down the **(B)** button will start high-speed movement of the applicable hand(s).
- High-speed movement of the hands will continue until it completes a 12-hour cycle, or until you press any button to stop it.

### Radio-controlled Timekeeping Precautions

- Strong electrostatic charge can result in the wrong time being set.
- The time calibration signal bounces off the ionosphere. Because of this, such factors as changes in the reflectivity of the ionosphere, as well as movement of the ionosphere to higher altitudes due to seasonal atmospheric changes or the time of day may change the reception range of the signal and make reception temporarily impossible.
- Even if the time calibration signal is received properly, certain conditions can cause the time setting to be off by up to one second.
- The current time setting in accordance with the time calibration signal takes priority over any time settings you make manually.
- The watch is designed to update the date and day of the week automatically for the period January 1, 2000 to December 31, 2099. Setting of the date by the time calibration signal cannot be performed starting from January 1, 2100.

- This watch can receive signals that differentiate between leap years and non-leap years.
- Though this watch is designed to receive both time data (hour, minutes, seconds) and date data (year, month, day), certain signal conditions can limit reception to time data only.
- If you are in an area where proper time calibration signal reception is impossible, the watch keeps time within  $\pm 20$  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 Home Time Zone (GMT differential) setting.  
The following are the initial factory defaults for this setting.  
Modules 3784 and 4384 : GMT +1.0



- To find out the module number of your watch, look at its back cover. The Module number (3784 or 4384) is engraved inside the box on the back cover.

## Transmitters

This watch is able to receive time calibration signals transmitted in Germany (Mainflingen) and England (Rugby). The following explains how the watch determines which transmitter it should check first.

In this case:	The watch does this:
The first signal search operation after factory default settings are in effect.	1. Checks the Mainflingen signal first. 2. If the Mainflingen signal cannot be received, checks the Rugby signal.
The first signal search operation after the Home Time Zone has been changed.	1. Checks the Rugby signal first. 2. If the Rugby signal cannot be received, checks the Mainflingen signal.

## Timekeeping

- 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 3.
- The date will change automatically when the current time reaches midnight. The date change at the end of the month may take more time than normal.
- The current time for all time zones in the Timekeeping Mode is calculated in accordance with the Greenwich Mean Time (GMT) differential of each zone, based on your Home Time Zone 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.

## Power Saving

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

- There are actually two sleep state levels: "second hand sleep" and "function sleep".

Elapsed Time in Dark	Operation
60 to 70 minutes (second hand sleep)	Second hand only is stopped, all other functions are enabled.
6 or 7 days (function sleep)	<ul style="list-style-type: none"> <li>• All functions, including analog timekeeping, disabled</li> <li>• Internal timekeeping maintained</li> </ul>

- 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.
- Press any button.