

# USER'S GUIDE 2367/2739

## About This Manual



Module 2367

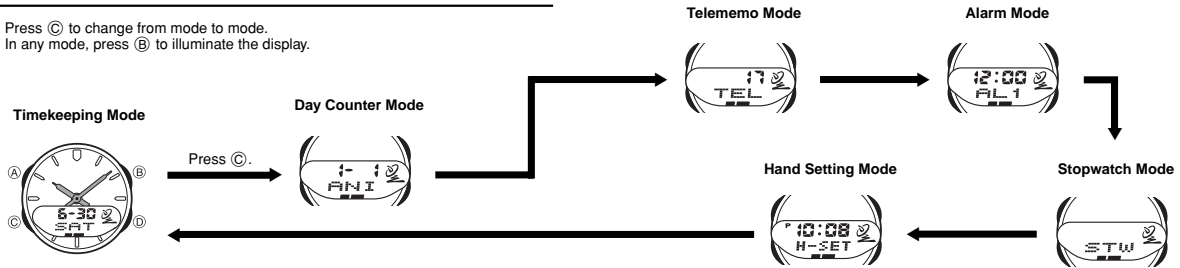


Module 2739

- The operational procedures for Modules 2367 and 2739 are identical. All of the illustrations in this manual show Module 2367.
- 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.

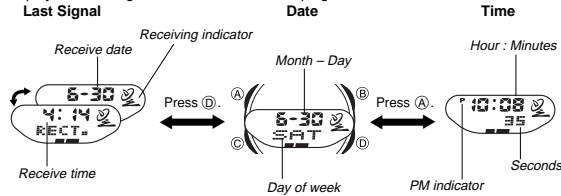
## General Guide

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



## Timekeeping

Use the Timekeeping Mode to set and view the current time and date. You can also display the Last Signal screen in the Timekeeping Mode.



- The Last Signal screen alternates between the time and date that the time calibration signal was successfully received.

### Current Time Setting

Normally, you do not need to do anything to set the current time as long as you are within an area in West Europe where the watch can pick up the time calibration signal. You can also set the current time manually when you are outside the range of the signal.

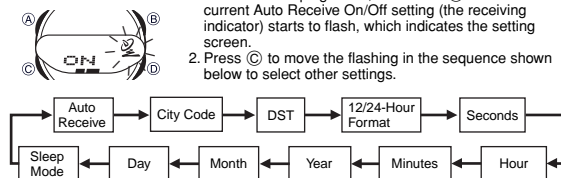
- Before using the watch after purchasing it, use the procedure under "Selecting Your Home City Code" to specify your Home City, and then use the procedure under "To perform manual time calibration signal reception".
- Note that after you set your Home City code, you must also turn on the watch's time calibration signal receiver if you want to enable auto time calibration. See "About Auto Receive" for more information.
- See "Setting the Digital Time and Date Manually" for information about manual settings.
- The analog time of this watch is synchronized with the digital time. Because of this, the analog time setting is automatically adjusted whenever you change the digital setting. See "Analog Timekeeping" for more information.

### Setting the Digital Time and Date Manually

Once you select a Home City code and set its time, you can view the current time in other cities by simply changing the city code setting. Even if you plan to use the watch without enabling auto time calibration, be sure to select a Home City code (the city code whose time and date you are setting), before you set the time and date.

#### To set the current digital time and date manually

1. In the Timekeeping Mode, hold down (A) until the current Auto Receive On/Off setting (the receiving indicator) starts to flash, which indicates the setting screen.
2. Press (C) to move the flashing in the sequence shown below to select other settings.



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

Setting	Screen	Button Operations
Auto Receive	ON	Press (D) to toggle auto receive on and off.
City Code	10:08 BER	Use (D) (+) and (B) (-) to change the setting.
DST	10:08 OFF	Press (D) to toggle between Daylight Saving Time (ON) and standard time (OFF). • Pressing (D) performs a different operation when BER, LON, PAR, CAI, or JRS is selected as Home City Code. See "Auto Summer Time (DST) Switching".
12/24-Hour format	10:08 12H	Press (D) to toggle between 12-hour (12H) and 24-hour (24H) timekeeping.
Hour, Minutes	10:08 35	Use (D) (+) and (B) (-) to change the setting.
Seconds	6:30 00	Press (D) to reset the seconds to 00.
Month, Day, Year	00 1	Use (D) (+) and (B) (-) to change the setting.
Sleep Mode	SLEEP	Press (D) to toggle the sleep mode on (On) and off (OF).

4. 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 codes.
- See "Sleep Mode" for details about the sleep mode.
- 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.

### Selecting Your Home City Code

You can select a city code for your Home City (the city where you normally use the watch). This data can be changed any time you move to another geographic area.

- See "City Code Table" for a complete list of available codes.
- Once you select a Home City code and set its time, you can use World Time to view the current time in any one of 28 cities (29 time zones) around the world by simply specifying a city code.

#### To select your Home City code

1. In the Timekeeping Mode, hold down (A) until the current Auto Receive On/Off setting (the receiving indicator) starts to flash, which indicates the setting screen.
2. Press (C) to move the flashing to the City Code setting.
3. Use (D) (+) and (B) (-) to change it.
4. Press (A) to exit the setting screen.

### Time Calibration Signal Reception

This watch is designed to pick up a time calibration signal transmitted from Mairlingen, Germany 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 twice each day and makes appropriate adjustments. With **Manual Receive**, you perform a specific button operation to receive the calibration signal.

#### 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 the "To select your Home City code" for details.
- Time calibration reception is limited to specific geographic areas in West Europe.
- The current time setting in accordance with the time calibration signal takes priority over any time settings you make.
- The watch is designed to automatically update the date and day of the week for the period January 1, 2000 to December 31, 2039. Setting of the date by the time calibration signal cannot be performed starting from January 1, 2040.
- This watch can receive signals that differentiate between leap years and non-leap years.

- 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.

### Auto Summer Time (DST) Switching

The time calibration signal transmitted from Mainflingen, Germany includes both standard time and summer time (Daylight Saving Time or DST) data. Because of this, the watch automatically switches between standard time and summer time (DST) automatically whenever **BER, LON, PAR, CAI, or JRS** is selected as the Home City code.

- 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.

### Auto Summer Time (DST) Default Settings

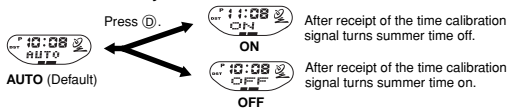
The following shows the default settings for each of the Home City codes that support auto summer time (DST) switching.

Home City Code	Auto Summer Time Default Setting
BER, LON, PAR	AUTO
CAI, JRS	OFF

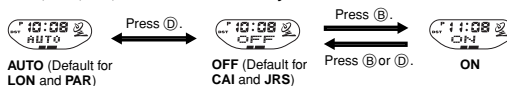
The following flows show how to switch the auto summer time setting between **AUTO, ON, and OFF**.

- The following are the meanings of the **AUTO, ON, and OFF** indicators.
- AUTO** - Watch will switch between standard time and summer time (DST) automatically.
- ON** - Summer time (DST)
- OFF** - Standard time (summer time turned off)
- See "To set the current digital time and date manually" for information about configuring summer time (DST) settings.

### When BER is the Home City Code



### When LON, PAR, CAI, or JRS is the Home City Code



### To perform manual time calibration signal reception

1. Place the watch on a stable surface to its top (12 o'clock side) is facing in the general direction of Frankfurt, Germany.
  - Position the watch so the case is pointing upwards as shown in the nearby illustration. This puts the watch in the optimum position for time calibration signal reception.
  - Note that signal reception is poor if the watch is on its back or side.
2. In the Timekeeping Mode, hold down **D** for about two seconds, until the watch beeps and the current time is flashing on the display.
  - This indicates that signal reception has started.
  - Time calibration signal reception takes from four to 11 minutes. Take care that you do not move the watch during this time.

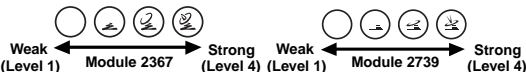
- After signal reception is complete, the display of the watch changes to the Last Signal screen, which shows the new signal receive date and time.
- The Level 4 receiving indicator (ⓧ) indicates that the calibration time reception attempt was successful.

### Note

- To interrupt a receive operation and return to the Timekeeping Mode (Date or Time screen), press **D**.
- If the receive operation is unsuccessful, the message **ERR** appears on the Last Signal screen for about one or two minutes. After that, the watch returns to the Timekeeping Mode (Date or Time screen).
- You can also change from the Last Signal screen to the Timekeeping Mode (Date or Time 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.



- 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.
- The receiving indicator (Level 4) remains on the display in all modes following reception of the time calibration signal and calibration of the watch's time setting. The receiving indicator (Level 4) is not displayed if signal reception was unsuccessful or after manual adjustment of the current time setting.

### About Auto Receive

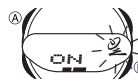
When auto receive is turned on, the watch automatically starts to receive the time calibration signal when the digital time in the Timekeeping Mode reaches 2:00 AM, and 4:00 AM each day (calibration times).

### 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 the calibration time is reached while you are making 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 digital 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 one or both of the last calibration time reception attempts were successful. If you do not see the Level 4 receiving indicator, it means there was some problem with the last 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.
- Even if the calibration reception is successful, the Level 4 receiving indicator disappears every day at 3am.
- When auto receive is turned on, the watch receives the calibration signal for four to 11 minutes each day when the digital time reaches 2:00 AM, and 4:00 AM. Do not operate any of the watch's buttons within 15 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 shown on the digital display. The receive operation will be performed whenever the digital display shows 2:00 AM, and 4:00 AM, regardless of whether or not the displayed time is actually the correct time.
- When two 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



1. In the Timekeeping Mode, hold down **A** until the current Auto Receive On/Off setting (the receiving indicator) starts to flash, which indicates the setting screen.
2. Press **D** to toggle Auto Receive on (**ON**) and off (**OFF**).
3. Press **A** to exit the setting screen.

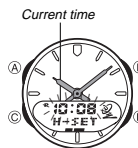
### Analog Timekeeping

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

### Note

- Whenever you manually change the digital time setting or Home City code, or if the time is adjusted by receipt of a time calibration signal, the hands of the analog timepiece move clockwise or counter clockwise to adjust to the new setting. If the analog time does not match the digital time for any reason, use the procedure described under "To adjust the analog time" to match the analog setting to the digital setting.
- Whenever you need to adjust both the digital and the analog time settings manually, make sure you adjust the digital setting first.
- Depending on how much the hands have to move in order to adjust to the digital time, it may take some time before the analog hands stop moving.
- The analog time does not change while a signal receipt operation is in progress. After the receive operation is complete, the analog time is automatically adjusted to match the digital time.
- If a signal receive operation is performed while the analog time and digital time do not match, the digital time will be adjusted correctly but the analog time may not be adjusted. If this happens, perform the steps below to adjust the analog time.

### To adjust the analog time



1. In the Timekeeping Mode, press **C** five times to enter the Hand Setting Mode.
2. Hold down **A** until the current digital time starts to flash, which indicates the setting screen.
  - Note that you will not be able to change to the setting screen if the analog hands are moving because the watch is automatically adjusting the analog time to match the digital time. If this happens, wait until the hands stop moving.
3. Use **D** (+) and **B** (-) to adjust the analog setting as described below.

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

4. Press **A** to exit the setting screen.
  - The minute hand will be adjusted slightly to match the seconds when you exit the setting screen.
  - To return to the Timekeeping Mode, press **C**.

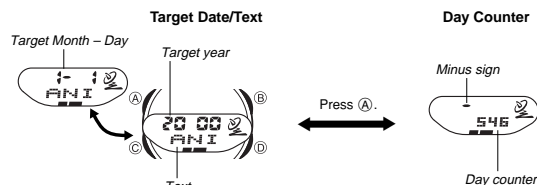
## Day Counter

The Day Counter lets you count the number of days from the Timekeeping Mode's current date to a specific target date.

- There are five Day Counter records, each of which can be set with its own text and target date (year, month, day).
- All of the operations in this section are performed in the Day Counter Mode, which you enter by pressing **C**.

### To recall Day Counter records

Enter the Day Counter Mode, and the Target Date/Text screen appears.



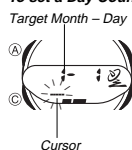
- The Target Date/Text screen alternates between the target month and day, and the target year.
- Your watch comes preset with the Day Counter text settings shown below. You can use these as they are or change them to something else, if you want.

Day Counter Number	Text	Meaning
DC1	ANIV.	Anniversary
DC2	EVENT	Event
DC3	BIRTHDAY	Birthday
DC4	DC4	No setting
DC5	DC5	No setting

- If there is no text assigned to a target date, the applicable day counter number appears in place of the text.
- A minus sign (-) in the upper left corner of the display indicates that the target date comes before the current date. No sign indicates the target date is after the current date.
- Press **D** to cycle through the Day Counter records as shown below.

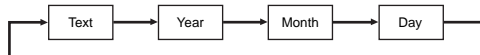


### To set a Day Counter record



1. In the Day Counter Mode, use **D** to scroll through the Day Counter records until the one you want to set is on the display.
2. Hold down **A** until the flashing cursor appears on the display, which indicates the setting screen.
  - Pressing **B** and **D** at the same time causes the message "CLEAR" to appear and clears the text (if there is any already input), and sets the current Timekeeping Mode date as the target date.

3. Press **C** to move the flashing in the sequence shown below to select other settings.



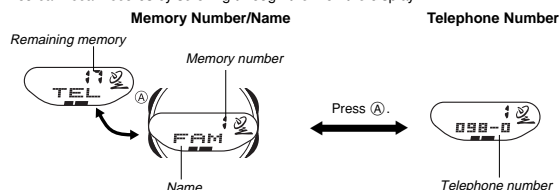
- There are eight spaces in the text, so you have to press **C** eight times to move to the Year setting.
  - When the Year setting is selected, the cursor changes for a four-digit target year.
4. When the setting you want to change is selected, use **B** and **D** to change it.
    - Selecting the text causes the text input cursor to appear.
    - When inputting text, use **B** and **D** to cycle through characters at the current cursor location, and **C** to move the cursor to the right. See "Inputting Text".
    - While the year, month, or day setting is flashing, use **D** (+) and **B** (-) to change the setting.
    - You can set a target date in the range of January 1, 1940 to December 31, 2039.
  5. Press **A** to exit the setting screen.

### Note

- Use the above procedure to edit Day Counter records, too.
- The display can show only three characters at a time, so longer text scrolls continuously from right to left.

## Telememo

Telememo lets you store up to 20 records, each containing name and telephone number data. Records are automatically sorted based on the characters of the name. You can recall records by scrolling through them on the display.

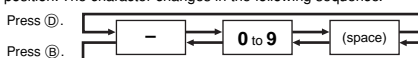


- Your watch comes preset with three Telememo records with the names "FAMILY", "HOME", and "OFFICE" without any phone numbers. You can change or delete these records if you want.
- See "Character List" for details on how the watch sorts records.
- All of the operations in this section are performed in the Telememo Mode, which you enter by pressing **C**.

### To create a new Telememo record

1. In the Telememo Mode, press **D** until a record showing "--" (indicating the new record input screen) appears.
  - If the message "FULL" appears on the display, it means that memory is full. To store another record, you will first have to delete some of the records stored in memory.
2. Hold down **A** until the flashing cursor (—) appears on the display, which indicates the setting screen.
3. Input a name.
  - When inputting the name, use **B** and **D** to cycle through characters at the current cursor location, and **C** to move the cursor to the right. See "Inputting Text".
  - You can input up to eight characters for the name.
4. After you input the name, press **C** as many times as necessary to display the number input screen.
  - You can input up to eight characters for the name. When the cursor is located at the eighth space of the name, moving the cursor to the right causes it to jump to the first digit of the number. When the cursor is at the 12th digit of the number, moving it to the right (by pressing **C**) causes it to jump to the first character in the name.

5. Input a telephone number.
  - Use **B** and **D** to change the character (hyphen, number, or space) at the cursor position. The character changes in the following sequence.



6. When the character you want is at the cursor position, press **C** to move the cursor to the right.
7. Repeat steps 5 and 6 until you complete number input.
  - You can input up to 12 digits for the number.
  - The number initially contains all hyphens. You can leave the hyphens or replace them with numbers or spaces.
8. Press **A** to store your data and return to the Telememo record screen (without the cursor).
  - When you press **A**, the message "SORT" appears on the display for a few seconds. After the sort operation is complete, the watch returns to the Telememo record screen (without the cursor).
  - The display can show only three characters at a time, so longer text scrolls continuously from right to left.

### To recall Telememo records

1. In the Telememo Mode, press **D** (+) to scroll through Telememo records on the display.
- Only the memory number and name of each Telememo record appear on the display as you scroll through Telememo records.
- Pressing **A** while the memory number/name screen is on the display changes to the telephone number screen for that record.
- The display can show only five digits of the telephone number at a time, so longer numbers scroll continuously from right to left.

### To edit a Telememo record

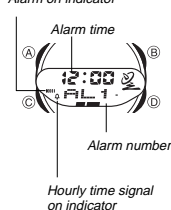
1. In the Telememo Mode, scroll through the records and display the one you want to edit.
2. Hold down **A** until the flashing cursor appears on the display.
3. Use **C** to move the flashing to the character you want to change.
4. Use **B** and **D** to change the character.
5. After making the changes that you want, press **A** to store them and return to the Telememo record screen.

### To delete a Telememo record

1. In the Telememo Mode, scroll through the records and display the one you want to delete.
2. Hold down **A** until the flashing cursor appears on the display.
3. Press **B** and **D** at the same time to delete the record.
  - The message "CLEAR" appears for a few moments, and then the cursor appears on the display, ready for input.
4. Input data or press **A** to return to the Telememo record screen.

## Alarms

### Alarm on indicator



- You can set three independent Daily Alarms. When an alarm is turned on, the alarm tone sounds when the alarm time is reached. You can also turn on an Hourly Time Signal that causes the watch to beep twice every hour on the hour.
- The alarm and Hourly Time Signal operate in accordance with the current digital time.
  - The alarm number ("AL1" though "AL3") indicates an alarm screen. "SIG" appears in place of the alarm number when the Hourly Time Signal screen is shown.
  - All of the operations in this section are performed in the Alarm Mode, which you enter by pressing **C**.

### To set an alarm time

1. In the Alarm Mode, press **D** to select the alarm whose time you want to set.
  - The display shows a sequence: AL1 -> AL2 -> AL3 -> SIG.
2. Hold down **A** until the hour setting of the alarm time starts to flash, which indicates the setting screen.
  - This automatically turns on the alarm.
3. Press **C** to move the flashing between the hour and minute settings.
4. While a setting is flashing, use **D** (+) and **B** (-) to change it.
  - When setting the alarm time using the 12-hour format, take care to set the time correctly as a.m. (no indicator) or p.m. (P indicator).
  - If you have 24-hour timekeeping selected in the Timekeeping Mode, the alarm time is also displayed in 24-hour format.
5. Press **A** to exit the setting screen.

## Alarm Operation

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

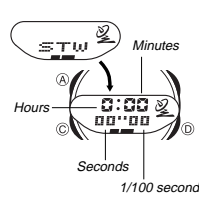
### To test the alarm

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

### To turn an alarm and the Hourly Time Signal on and off

- In the Alarm Mode, press (D) to select an alarm or the Hourly Time Signal.
- When the alarm or the Hourly Time Signal you want to is selected, press (A) to turn it on and off.
  - The alarm on indicator ( ) and the Hourly Time Signal on indicator ( ) are shown on the display in all modes while these functions are turned on.
  - If any alarm is on, the alarm on indicator is shown on the display in all modes.

## Stopwatch

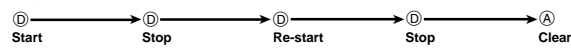


The stopwatch lets you measure elapsed time, split times, and two finishes.

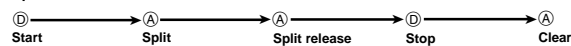
- The display range of the stopwatch is 23 hours, 59 minutes, 59.99 seconds.
- The stopwatch continues to run, restarting from zero after it reaches its limit, until you stop it.
- The stopwatch measurement operation continues even if you exit the Stopwatch Mode.
- All of the operations in this section are performed in the Stopwatch Mode, which you enter by pressing (C).

### To measure times with the stopwatch

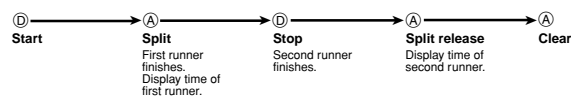
#### Elapsed Time



#### Split Time



#### Two Finishes



## 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.

### 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 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.
- Turn on the watch's sleep mode and keep it in an area normally exposed to 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		All functions enabled.
2		All functions enabled.
3		Auto and manual signal receive, alarm, hourly time signal, backlight, and display are disabled. Though the hands of the watch do not move, time continues to be kept internally.
4		All functions, including timekeeping, are disabled.

- At Level 4, all functions are disabled. Functions are enabled once again after the rechargeable battery is charged, but anything previously stored in memory is lost. Because of this, you must set the current time and alarms, and re-input Telememo records after the rechargeable battery is charged.
- 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 light or alarms a number of times during a short period, a RECOVER indicator ( ) appears on the display and the following operations become disabled until battery power recovers.

#### Backlight

#### Alarm and hourly time signal

#### Coordination between digital and analog timekeeping

#### Time calibration signal reception

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

## Charging Precautions

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 sunlight to charge its rechargeable battery can cause it to become quite hot. Take care when handling the watch to avoid burn injury.

- On the dashboard of a car parked in direct sunlight
- Too close to an incandescent lamp
- Under direct sunlight or in any other area exposed to intense heat for long periods

### 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
- 1 backlight operation (1.5 seconds) per day
- 10 seconds of alarm operation per day
- 2 signal receive operations per day

#### Charging 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

#### 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)	54 minutes	14 hours	3 hours	
Sunlight Through a Window (10,000 lux)	3 hours	71 hours	14 hours	
Daylight Through a Window on a Cloudy Day (5,000 lux)	5 hours	-----	-----	
Indoor Fluorescent Lighting (500 lux)	41 hours	-----	-----	

- The above exposure time values are all for reference only. Actual required exposure times depend on lighting conditions.
- Stable operation is promoted by frequent charging.

## 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 any mode (except for the Stopwatch Mode) for two or three minutes without performing any operation, it automatically changes to the Timekeeping Mode.
- If you leave a screen with flashing digits or a cursor 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 (B) and (D) buttons are used in various modes and setting screens to scroll through data on the display. In most cases, holding down these buttons during a scroll operation scrolls through the data at high speed.

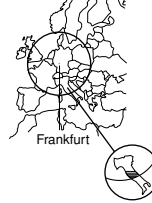
### Initial Screens

The following shows what appears on the display first in each mode.

Mode	Screen
Alarm	Data you were last viewing.
Day Counter	Target Date/Text screen with data you were last viewing.
Telememo	Memory Number/Name screen with data you were last viewing.

### Time Calibration Signal Reception Precautions

- 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 1,000 kilometers. At distances further than about 500 kilometers, the signal may become weak and reception may be impossible under certain conditions.
- Even when the watch is within the reception range, signal reception is impossible if the signal is blocked by mountains or other geological formations between the watch and signal source.
- Signal reception may be poor in the shaded area on the map, even though it is within 1,000 kilometers of the signal transmitter.
- 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.



- This watch is designed to receive the signal transmitted from Mainflingen. This means that reception is best when the antenna built into the 12 o'clock edge of the watch is facing towards Mainflingen. Note, however, that moving the watch while the time calibration signal receive operation is taking place will make stable reception impossible.
- Think of the watch as acting like a TV or radio when it is receiving the calibration signal. When receiving indoors, move to a location as near as possible to a window. Proper signal reception can be difficult or even impossible under the conditions listed below.
  - Near TVs, refrigerators, computers, or other household appliances
  - Far away from broadcasting stations among ferro-concrete structures or near mountains
  - Underground, in tunnels or in ferro-concrete buildings
  - Near high-tension wires, neon signs, or radio stations with interfering frequencies
  - Near railroads, highways or airports
  - In trains or cars
- Radio interference can make signal reception impossible.
- Signal reception is normally better at night than during the day.
- Strong electrostatic charge can result in the wrong time being set.
- The daily alarm and hourly time signal do not operate during signal reception.
- If you are in an area where proper time calibration signal reception is impossible, the watch keeps time within  $\pm 15$  seconds a month at normal temperature.

### Signal Receive Troubleshooting

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

Problem	Probable Cause	What you should do
Cannot perform manual receive.	• The watch is not in the Timekeeping Mode.	• Enter the Timekeeping Mode and try again.
Auto receive is turned on, but the receiving indicator (Level 4) does not appear on the display.	• You changed the time setting manually. • The watch was not in the Timekeeping Mode or you were performing some button operation during the last auto signal receive operation was performed. • Even if receive is successful, the receiving indicator (Level 4) disappears every day at 3am.	• 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. • Put the watch in a location that is suitable for good reception.
Time setting is incorrect following signal reception.	• If the time is one hour off, 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.

### Timekeeping

- Note that you cannot switch between standard time and Daylight Saving Time while GMT is selected as the city code.
- 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 2039.
- The watch's built-in full automatic calendar automatically makes allowances for different month lengths and leap years. Once you set the date, there should be no reason to change it except after you have the watch's battery replaced.
- The current time for all city codes in the Timekeeping Mode 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 Universal Time Coordinated (UTC) data.

### 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.

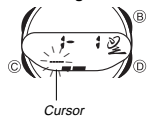
- With the 12-hour format, the P (PM) indicator appears to the left of the hour digits for times in the range of noon to 11:59 p.m. and the no indicator appears to the left of the hour digits for times in the range of midnight to 11:59 a.m.
- With the 24-hour format, times are displayed in the range of 0:00 to 23:59, with 24 indicator.

### Inputting Text

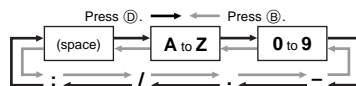
The following describes how to input text in the Day Counter and Telememo Modes.

#### To input characters

##### Day Counter record setting screen



- When the cursor is on the display, use (B) and (D) to cycle through the available letters, numbers and symbols, in the sequence shown below.



- When the character you want is at the cursor position, press (C) to move the cursor to the right.
- Repeat steps 1 and 2 to input the rest of the characters you want.

### Sleep Mode

While the sleep mode is turned on, the watch automatically goes to "sleep" to save power whenever it is left in a place where lighting is dim (less than about 30 lux). The following shows how watch functions are affected when left in a dark place while in the sleep mode.

Approximate Period in Sleep Mode	Functions
3 to 4 days	<ul style="list-style-type: none"> <li>LCD off</li> <li>Alarm, hourly time signal, analog timekeeping and auto signal receive enabled</li> </ul>
8 days or more	<ul style="list-style-type: none"> <li>LCD off, alarm and hourly time signal disabled</li> <li>Analog timekeeping stopped at 12 o'clock</li> <li>Auto signal receive disabled</li> </ul>

To exit the sleep mode, move the watch to a location that is more brightly lit, or press any button.

- It takes up to about five seconds for the watch to recover from the sleep mode.
- Even when the watch is in the sleep mode, digital-analog time coordination and auto signal receive are both performed.
- See "To set the current digital time and date manually" for information about configuring sleep mode settings.

### Backlight Precautions

The backlight uses an EL (electro-luminescent) panel that causes the entire display to glow for easy reading in the dark.

- In any mode, press (B) to illuminate the display for about one second.
- 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 runs down the battery.

### 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		+00	DUBLIN, LISBON, CASABLANCA, DAKAR, ABIDJAN
LON	LONDON	+00	
BER	BERLIN	+01	MILAN, ROME, MADRID, AMSTERDAM, ALGIERS, HAMBURG, FRANKFURT, VIENNA, STOCKHOLM
PAR	PARIS	+01	
CAI	CAIRO	+02	ATHENS, HELSINKI, ISTANBUL, BEIRUT, DAMASCUS, CAPE TOWN
JRS	JERUSALEM	+02	
JED	JEDDAH	+03	KUWAIT, RIYADH, ADEN, ADDIS ABABA, NAIROBI, MOSCOW
THR	TEHRAN	+3.5	SHIRAZ
DXB	DUBAI	+04	ABU DHABI, MUSCAT
KBL	KABUL	+4.5	
KHI	KARACHI	+05	MALE
DEL	DELHI	+5.5	MUMBAI, KOLKATA
DAC	DHAKA	+06	COLOMBO
RGK	YANGON	+6.5	
BKK	BANGKOK	+07	JAKARTA, PHNOM PENH, HANOI, VIENTIANE
HKG	HONG KONG	+08	SINGAPORE, KUALA LUMPUR, BEIJING, TAIPEI, MANILA, PERTH, ULAANBAATAR
TYO	TOKYO	+09	SEOUL, PYONGYANG
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 June 2002.

### Character List

1	(space)	10	I	19	R	28	0	37	9
2	A	11	J	20	S	29	1	38	-
3	B	12	K	21	T	30	2	39	.
4	C	13	L	22	U	31	3	40	/
5	D	14	M	23	V	32	4	41	:
6	E	15	N	24	W	33	5		
7	F	16	O	25	X	34	6		
8	G	17	P	26	Y	35	7		
9	H	18	Q	27	Z	36	8		