

# Operation Guide 3419

Congratulations upon your selection of this CASIO watch.

Bluetooth® is a registered trademark or trademark of Bluetooth SIG, Inc. of the United States.

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## Mobile Link Function

This product includes functions that allow it to communicate with Bluetooth® 4.0 (referred to as "Bluetooth" in this manual) capable mobile phones and other devices, to sound an alert tone, perform vibration alert, and display alerts when a phone call and/or mail is received on your phone, etc. (Mobile Link Function)

- This product complies with or has received approval under radio laws in various countries and geographic areas. Use of this product in an area where it does not conform to or where it has not been approved under applicable radio laws may be punishable under local laws. For details, see the separate "List of Countries and Geographic Areas where Product Conforms to Radio Laws or Has Been Approved".
- Use of this product inside of an aircraft is restricted by the aviation laws of each country. Be sure to obey instructions provided by flight personnel concerning use of devices such as this product.
- For Mobile Link operational procedures and a Q&A, go to the website below. CASIO website: <http://world.g-shock.com/ble/guide/>

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## Features

Your watch provides you with the features and functions described below.

- ◆ **Communication with your mobile phone** ..... Visit the CASIO website  
Connect with a Bluetooth enabled mobile phone and communicate with it. For more information, visit the "User's Guide for Mobile Link Functions" page at the CASIO website.
- ◆ **World Time** ..... Page E-24  
Instantly view the current time in 100 cities around the globe.
- ◆ **Alarms** ..... Page E-28  
The watch can be configured to sound a tone or vibrate when a preset alarm time is reached.

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- ◆ **Stopwatch** ..... Page E-37  
The stopwatch measures elapsed time up to 1,000 hours in 1/100-second increments.
- ◆ **Timer** ..... Page E-40  
The timer counts down from a preset start time, and the watch sounds a tone or vibrates when the countdown reaches zero.

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## About this User's Guide

### Display Types

Depending on the model of your watch, display text appears either as dark figures on a light background or light figures on a dark background. All sample displays in this manual are shown using dark figures on a light background.

- Note that the display style of a watch is fixed. You cannot switch between styles.



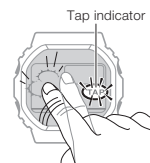
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### Tap Operations

The word "tap" in this manual refers to striking the center of watch display with your fingertip.

**Example:**  
Tap twice to stop an ongoing tone or vibration alert for a watch alarm.

**How to tap:**  
Lightly strike the watch display twice with the tip of your finger. (double-tap)



### Important!

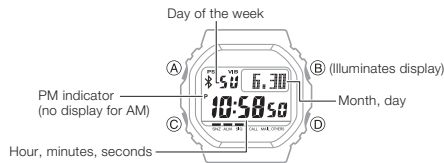
- The tap function is enabled only while the Tap indicator is flashing on the watch display.
- The Tap indicator flashes automatically whenever the tap function is enabled and can be used to stop a watch alarm or time up alert, etc.

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## Button Names and Display Indications

Operations on this watch are performed using buttons (A) through (D). The illustration below shows the locations and the meanings of the different buttons and display indicators.

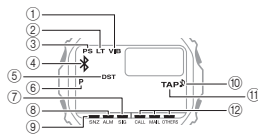
See "Using Modes" (page E-14).



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## Display Indicators



Number	Name	Meaning	More Info
①	Vibration indicator	Vibration alert turned on for alarms/timer.	E-53
②	Auto Light indicator	Auto light enabled.	E-46
③	Power Saving indicator	Mobile Link functions availability limited to save power.	CASIO website*

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## Note

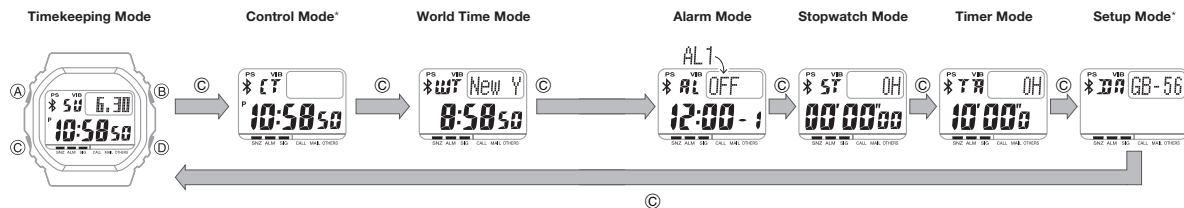
- The names shown above are used in the button operation explanations throughout this User's Guide.
- Note that the illustrations in this User's Guide are intended for reference only. The actual watch may appear somewhat different than depicted in the illustrations.

Number	Name	Meaning	More Info
④	Bluetooth icon	Mobile Link functions enabled.	CASIO website*
⑤	DST indicator	Summer time turned on (time advanced by one hour).	E-26
⑥	PM indicator	Indicates p.m. times during 12-hour timekeeping.	E-10
⑦	Hourly time signal indicator	Hourly time signal turned on.	E-33
⑧	Alarm indicator	Alarm turned on.	E-33
⑨	Snooze indicator	Snooze turned on.	E-33
⑩	Mute indicator	Button operation tone disabled.	E-51
⑪	Tap indicator (flashing)	Double-tap operation is enabled.	E-9
⑫	Alert indicator	Alerts an incoming call, email receipt, or some other phone event.	CASIO website*

\* Visit the "User's Guide for Mobile Link Functions" page of the CASIO website.

## Using Modes

Each press of (C) cycles between modes as shown in the illustration below.



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\* For information about the Control Mode and Setup Mode, visit the CASIO website at: <http://world.g-shock.com/ble/guide/>.

## Mode Overview

Mode	Functions	More Info
Timekeeping Mode	<ul style="list-style-type: none"> <li>Current time display</li> <li>Time, date, summer time settings; 12/24-hour display switching</li> <li>Manual time adjustment</li> <li>Alarm/timer alert method settings</li> </ul>	E-14 E-18 E-52
Control Mode	<ul style="list-style-type: none"> <li>Remote operation and information acquisition by data communication (Control Function)</li> </ul>	CASIO website
World Time Mode	<ul style="list-style-type: none"> <li>Current time in 100 cities (35 time zones) around the globe</li> </ul>	E-24
Alarm Mode	<ul style="list-style-type: none"> <li>Alarm time and on/off settings</li> <li>Hourly time signal on/off</li> </ul>	E-28
Stopwatch Mode	<ul style="list-style-type: none"> <li>Elapsed time measurement</li> </ul>	E-37
Timer Mode	<ul style="list-style-type: none"> <li>Start time settings; countdown</li> </ul>	E-40

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## Adjusting the Time Setting

When Mobile Link is enabled, the watch's time and date settings are automatically adjusted to match those of the phone. When Mobile Link is disabled, you should adjust the time and date settings manually.

## Configuring Current Time and Date Settings Manually

### ◆ To configure time and date settings

- In the Timekeeping Mode, hold down (A) for about two seconds until the time zone setting screen appears.



Time zone

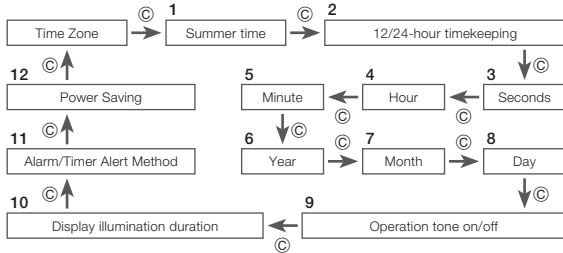
[SET Hold] will appear on the watch display, followed by the time zone setting screen.

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**2 Use  $\odot$  to select the item whose setting you want to change.**

Each press of  $\odot$  cycles through available settings in the sequence shown below.



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**Note**

- The numbers in the above diagram indicate how many times you need to press  $\odot$  to display each setting.
- Power Saving is a function that saves power by limiting the availability of Mobile Link functions. For more information, visit the "User's Guide for Mobile Link Functions" page at the CASIO website.

**3 Use  $\odot$  and  $\odot$  to change the currently selected setting as described below.**

Screen	Setting	Operation
UTC + 09:00	Time zone of the city where you will use the watch	Use $\odot$ and $\odot$ .
ON	Summer time on/off	Press $\odot$ .
12H	12-hour (12H)/24-hour (24H) timekeeping switching	Press $\odot$ .
50	Seconds 00-reset • From 30 to 59 seconds, resetting adds 1 to the minute setting.	Press $\odot$ .
10:58	Hour and minutes settings	Use $\odot$ and $\odot$ .
20 13 6, 30	Year, month, day settings	Use $\odot$ and $\odot$ .

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**Note**

- Refer to the "City Name List" (back of this manual) to determine the time zone of the city where you will be using the watch.
  - Summer time, or Daylight Saving Time (DST) as it is known in some countries, calls for setting clocks ahead one hour from standard time during the summer season. Note that the period during which and the areas where summer time is applied depend on each country. Some countries or geographic areas may not use summer time.
  - The DST indicator will be on the display and timekeeping will be advanced by one hour when summer time is turned on.
  - The watch's Full Auto Calendar automatically makes adjustments in the day setting to account for different length months and leap year.

**4 After all the settings are the way you want, press  $\odot$  to return to the Timekeeping Mode.**

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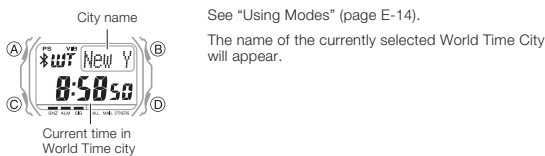
E-23

## World Time

World Time lets you display the current time in any one of 100 cities (35 time zones) around the world.

**To view the times in other time zones**

**1 In the Timekeeping Mode, press  $\odot$  twice to enter the World Time Mode.**



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**2 Use  $\odot$  to scroll through the World Time Mode city names.**

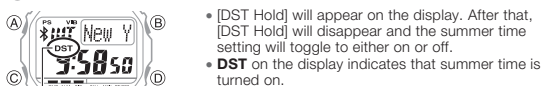
- See "City Name List" (back of this manual).
- Scrolling to a city name displays the current time in that city.
- Holding down  $\odot$  scrolls at high speed.
- To display the UTC city name (UTC offset 0), press  $\odot$  and  $\odot$  at the same time.
- Pressing  $\odot$  causes the currently selected city name to scroll across the display from the beginning of the name.

**3 To return to the Timekeeping Mode, press  $\odot$  five times.**

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**To configure the Summer Time (DST) setting**

**1 In the World Time Mode, hold down  $\odot$  for about two seconds.**



DST indicator

**Important!**

- Even when Mobile Link is enabled, you need to turn the summer time (DST) on or off manually for World Time.

**Note**

- Summer time, or Daylight Saving Time (DST) as it is known in some countries, calls for setting clocks ahead one hour from standard time during the summer season. Note that the period during which and the areas where summer time is applied depend on each country. Some countries or geographic areas may not use summer time.
- The DST indicator will be on the display and timekeeping will be advanced by one hour when summer time is turned on.
- The summer time setting cannot be changed for the UTC World Time zone.
- The summer time setting is applied to the currently selected time zone only. A setting configured for one time zone does not affect any other time zone.

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## Alarms and Hourly Time Signal

You can set up to five different alarms. When any one of the alarm times is reached the watch will sound an alarm tone or vibrate for about 10 seconds. In the case of snooze, the alarm will sound up to seven times at five-minute intervals. The hourly time signal causes the watch to sound a tone or vibrate every hour on the hour.

See "To change the alarm/timer alert method" (page E-52).

**To enter the Alarm Mode**

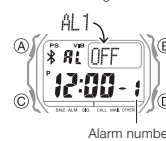
**1 In the Timekeeping Mode, press  $\odot$  three times to enter the Alarm Mode.**

See "Using Modes" (page E-14).

An alarm setting screen (Alarm 1 through Alarm 4, Snooze, or hourly time signal) will appear.

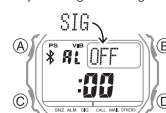
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Alarm setting screen



Alarm number

Hourly time signal setting screen



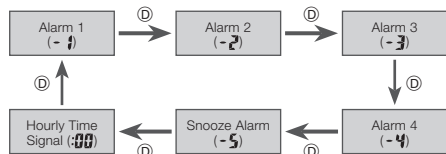
**Note**

- If you do not perform any operation for about two or three minutes while in the Alarm Mode, the watch will automatically return to the Timekeeping Mode.

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### To change an alarm setting

- In the Alarm Mode, use **(D)** to select the alarm whose setting you want to change.



- Use **(A)** to toggle the displayed setting between on and off.

Alarm 1 through Alarm 4  
**OFF** : Alarm does not sound.  
**1TIME** : Alarm sounds only once at the preset time and does not sound again after that.  
**DAILY** : Alarm sounds at the preset time each day.  
 Hourly time signal  
**OFF** : Hourly time signal does not sound.  
**ON** : Hourly time signal sounds every hour on the hour.

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### Snooze

**OFF** : Alarm does not sound.  
**1TIME** : Alarm sounds at the preset time, and up to seven times at five-minute intervals thereafter. This operation is performed only once.  
**DAILY** : Alarm sounds at the preset time, and up to seven times at five-minute intervals thereafter. This operation is performed at the preset time each day.

The alarm indicator is displayed while any alarm (Alarm 1 through Alarm 4) is turned on, while the Hourly Time Signal indicator is displayed while the hourly time signal is turned on. While snooze is turned on, the Alarm Indicator and Snooze Indicator are both displayed.



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- To change an alarm time setting, hold down **(A)** for about two seconds until the hour digits of the current alarm time start to flash.



[SET Hold] will appear on the display. After that, [SET Hold] will disappear and the hour digits will flash.

- Each press of **(C)** causes the flashing to move between the hour and the minutes digits. The flashing digits are the ones that are selected.
- Use **(B)** and **(D)** to change the flashing setting, and set the hour and minutes you want.
  - Holding down either button scrolls the setting at high speed.
  - If you are using 12-hour timekeeping, the PM indicator will appear for times between noon and 11:59 p.m.

- After all the settings are the way you want, press **(A)** to exit the setting screen.

- To return to the Timekeeping Mode, press **(C)** four times.

### To stop a tone/vibration alert operation

- Double-tapping the center of the watch display or pressing any one of the buttons will stop an ongoing tone/vibration alert operation.

### Note

- In the case of snooze, the alarm will sound up to seven times at five-minute intervals.
- The Snooze Indicator (SNZ) will flash on the display during the five-minute intervals between alarms.
- Snooze will be canceled when any of the following occurs while the Snooze Indicator (SNZ) is flashing on the display.
  - Disabling snooze

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- Displaying the snooze setting screen
- Displaying the Timekeeping Mode setting screen

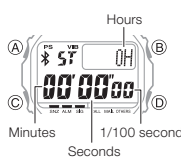
### To test the alarm

- In the Alarm Mode, hold down **(D)** to perform the tone/vibration alert operations.

## Stopwatch

The stopwatch measures elapsed time in units of 1/100 seconds up to 999 hours, 59 minutes, 59.99 seconds. Elapsed time returns to zero automatically and timing continues from there when the maximum limit is reached.

### To enter the Stopwatch Mode



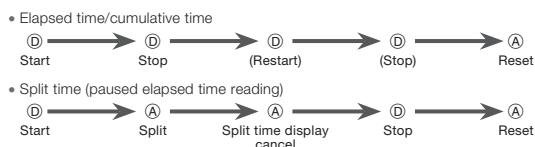
- In the Timekeeping Mode, press **(C)** four times to enter the Stopwatch Mode. See "Using Modes" (page E-14).

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### To measure time with the stopwatch

- The following shows button operations for stopwatch operations.



Pressing **(A)** while timing is being performed displays the split time (with [SPLIT] flashing), but elapsed timing continues internally.

### Note

- Once started, elapsed time measurement continues until you press **(D)** to stop it, even if you change to a different mode and even if the stopwatch reaches the elapsed time measurement limit.
- If you change to another mode while a split time is frozen on the display, split time display will be canceled.

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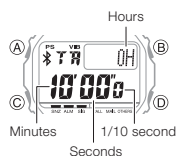
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## Timer

The timer start time can be set in one-second increments up to 100 hours. The watch will sound a tone or vibrate for about 10 seconds when the end of the timer countdown is reached.

See "To change the alarm/timer alert method" (page E-52).

### To enter the Timer Mode



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- In the Timekeeping Mode, press **C** five times to enter the Timer Mode.

See "Using Modes" (page E-14).

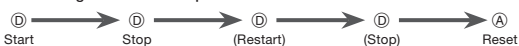
- Use **B** and **D** to change the currently flashing digits (hours, minutes, or seconds).

- Holding down either button scrolls the setting at high speed.
- To specify a start time of 100 hours, set the timer to 0H00'00".

- After all the settings are the way you want, press **A** to exit the setting screen.

### To perform a countdown

- The following shows button operations for a countdown.



#### Note

- A tone/vibration alert is performed for about 10 seconds when the end of the countdown is reached, and the display returns to the screen that was shown before the countdown was started.

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### To set the timer start time

- In the Timer Mode, hold down **A** for about two seconds.



[SET Hold] will appear on the display. After that, [SET Hold] will disappear and the hours digits will flash.

#### Note

- If a timer countdown operation is in progress, press **D** to stop it and then press **A** to reset the timer to its start time before performing the above step.
- If a timer countdown operation is paused, press **A** to reset the timer to its start time before performing the above step.

- Each press of **C** causes the flashing to move between the hours, minutes, and seconds digits.

The flashing digits are the ones that are selected.

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### To stop a tone/vibration alert operation

- Double-tapping the center of the watch display or pressing any one of the buttons will stop an ongoing tone/vibration alert operation.

- Even if you exit the Timer Mode while a timer countdown is ongoing, the countdown will continue and the tone/vibration alert operation will be performed when the end of the countdown is reached.

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## Illumination

You can use the procedure below to illuminate the display for easy reading in the dark. The watch also has an Auto Light function that illuminates the display whenever the watch is angled towards your face for reading.

### To illuminate the display

- Press **B** to illuminate the display.

#### Note

- Illumination will turn off automatically if it is on when an alarm alert, incoming call alert, or any alert operation starts.

### ◆ Light Use Precautions

Frequent use of the light can shorten battery life.

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### Using Auto Light

When Auto Light is enabled, angling the watch towards your face at an angle of 40° or greater will illuminate the display automatically.



#### Note

- Auto Light is disabled automatically while an alarm is sounding.

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### ◆ To enable/disable Auto Light

Auto Light indicator



- In the Timekeeping Mode, hold down **B** for at least three seconds.

This will toggle Auto Light between enabled (LT indicator displayed) and disabled (no indicator displayed).

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### ◆ Auto Light Precautions

- The Auto Light may not operate properly when the watch is angled towards your face from an angle greater than about 15 degrees as shown in the illustration below.



- Leaving Auto Light enabled can run down the watch's battery due to frequent display illumination.
- Electro-static charge or magnetism can interfere with proper Auto Light operation. If this happens, try lowering your arm and then angle it towards your face again.
- When moving the watch you may note a slight rattling sound. This is due to operation of the Auto Light switch, which determines the current orientation of the watch. It does not indicate malfunction.
- Auto Light will remain enabled for about 6 hours after you turn it on. After that Auto Light will disable automatically.

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### To specify the illumination duration



- In the Timekeeping Mode, hold down **A** for about two seconds until the time zone setting screen appears.



- Press **C** 10 times to display the illumination duration setting screen.

See "Configuring Current Time and Date Settings Manually" (page E-19).

The screen will show either [LT1] or [LT3].

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- Press **D** to toggle the illumination duration setting between [LT1] (1.5 seconds) and [LT3] (3 seconds).

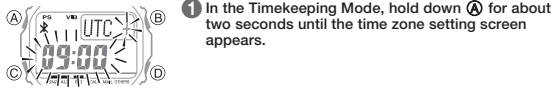
- To return to the Timekeeping Mode, press **A**.

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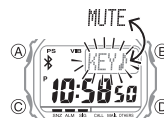
## Other Settings

You can use the procedures in this section to turn the tone that sounds when you press a button on or off. You can also select either tone or vibration as the alert method for the alarm and timer.

### To turn the button operation tone on or off



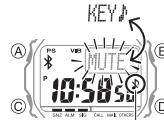
1 In the Timekeeping Mode, hold down **A** for about two seconds until the time zone setting screen appears.



2 Press **C** nine times to display the button operation tone setting screen.

See "Configuring Current Time and Date Settings Manually" (page E-19).

The screen will show either [KEY♪] or [MUTE].



3 Press **D** to toggle the setting between [KEY♪] (ON) and [MUTE] (OFF).

When [MUTE] (OFF) is selected, a Mute indicator is displayed to indicate that the button operation tone will not sound.

Mute indicator

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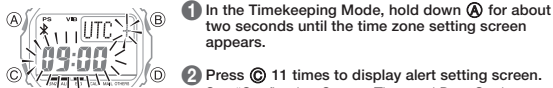
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4 To return to the Timekeeping Mode, press **A**.

### Note

- The above procedure affects the button operation tone only. The alarm, hourly time signal, and time up alarm are not affected.

### To change the alarm/timer alert method



1 In the Timekeeping Mode, hold down **A** for about two seconds until the time zone setting screen appears.

2 Press **C** 11 times to display alert setting screen.

See "Configuring Current Time and Date Settings Manually" (page E-19).

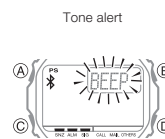
The screen will show either [VIB] or [BEEP].

3 Press **D** to toggle the setting between [VIB] and [BEEP].

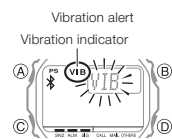
The Vibration indicator is shown on the display while [VIB] is selected.

VIB : Alert by vibration.

BEEP : Alert by tone.



Tone alert



Vibration alert  
Vibration indicator

4 To return to the Timekeeping Mode, press **A**.

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## Low Battery Indication

A low battery indicator appears on the display when battery voltage drops below a certain level. Availability of some functions becomes limited while the low battery indicator is displayed. If the low battery indicator remains on the display, have the battery replaced as soon as possible.

### Note

- For information about battery life guidelines and supported battery types, see the product specifications.

See "Specifications" (page E-56).

The following describes how display of the low battery indicator affects watch operation.

- Low Battery indicator
  - The watch enters the Timekeeping Mode.
  - Bluetooth connection turns off and Mobile Link is disabled.
  - Display illumination becomes disabled.
  - Alert sound and vibration become disabled.
  - Double-tap operation becomes disabled.

### Note

- Repeated use of Mobile Link functions, display illumination, tone/vibration alert, or other functions over a short period can result in a momentary drop in battery voltage. This can cause temporary display of the low battery indicator and limited availability of some watch functions.

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## Specifications

Accuracy at normal temperature : ±15 seconds a month

Basic Functions : Hour, minutes, seconds; a.m./p.m. (P); 12/24-hour timekeeping format; Month, day, day of the week; Full auto calendar (2000 to 2099); Summer time setting

World Time : Current time in 100 cities (35 time zones) + UTC (Universal Coordinated Time) time display; Summer time setting

Alarms and Hourly Time Signal : Alarms  
5 daily alarms with 1 snooze alarm  
Setting units: Hour, minute  
Tone or vibration alert: 10 seconds  
Hourly time signal  
Beeps or vibrates every hour on the hour

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Stopwatch : Measuring unit: 1/100 second  
Measuring capacity: 999:59'59.99" (1000 hours)  
Measuring accuracy: ±0.0006%  
Measurement functions: Elapsed time, cumulative time, split times

Countdown Timer : Countdown unit: 1/10 second  
Countdown range: 100 hours  
Measuring accuracy: ±0.0006%  
Setting unit: 1 second  
Time up alert: 10-second tone or vibration

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Mobile Link Functions : Time Correction  
Auto correction/manual correction  
Alert  
Tone and/or vibration alert for incoming calls, incoming mail, incoming SNS, calendar alert, etc.  
Information display (last received information)  
Phone finder  
Watch operation sounds the alert sound of the mobile phone.  
Data Communication Specifications  
Bluetooth® v4.0 (Bluetooth® low energy technology compatible)  
Data rate: 1 Mbps  
Transmission output: 0 dBm (1 mW)  
Communication range: 2 meters max. (depends on environment)  
Encryption: 128 bit AES

Other : Low battery alert; Auto return to Timekeeping Mode; Power Saving; Vibration alert; Tap function; High-brightness LED light; Auto Light; Selectable illumination duration; Operation tone on/off

Battery : One lithium battery (Type: CR2032)

Approximate Battery Life : 2 years  
Usage Conditions  
• Mobile Link operation: 12 hours/day  
• Control function: 2 hours/day  
• Incoming call alert: 3 times (tone and vibration for 5 seconds)/day  
• Incoming mail, other alerts: 10 times (tone only for 5 seconds)/day  
• Illumination: Once (1.5 seconds)/day  
• Alarm: Once (tone only for 10 seconds)/day  
Approximate battery life can be shortened by more frequent operation.

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## City Name List



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### City Name List

City Name	Time Zone	City Name	Time Zone	City Name	Time Zone
(UTC)		Frankfurt		Helsinki	
Reykjavik		Oslo		Istanbul	
Lisbon	0	Rome		Kyiv	+2
Casablanca		Copenhagen	+1	Cairo	
London		Berlin		Jerusalem	
Madrid		Stockholm		Moscow*	
Paris		Budapest		Addis Ababa	+3
Algiers		Warsaw		Jeddah	
Brussels	+1	Cape Town		Tehran	+3.5
Amsterdam		Sofia	+2	Dubai	+4
Zurich		Athens		Kabul	+4.5

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City Name	Time Zone	City Name	Time Zone	City Name	Time Zone
Karachi	+5	Beijing		Chatham Islands	+12.75
Delhi	+5.5	Manila	+8	Nukualofa	+13
Kathmandu	+5.75	Shanghai		Kiritimati	+14
Novosibirsk*		Taipei		Pago Pago	-11
Dhaka	+6	Seoul	+9	Honolulu	-10
Yangon	+6.5	Tokyo		Anchorage	-9
Bangkok		Adelaide	+9.5	Vancouver	
Hanoi	+7	Vladivostok*		San Francisco	
Jakarta		Guam	+10	Seattle	-8
Kuala Lumpur		Sydney		Los Angeles	
Singapore		Noumea	+11	Tijuana	
Hong Kong	+8	Wellington	+12	Edmonton	-7
Perth		Suva		Phoenix	

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City Name	Time Zone	City Name	Time Zone	City Name	Time Zone
Chihuahua	-7	Kingston		Rio de Janeiro	-3
Denver		Philadelphia		Fernando de Noronha	-2
Mexico City		Bogota	-5	Praia	-1
Winnipeg		New York			
Dallas	-6	Boston			
Houston		Caracas	-4.5		
Guatemala City		Santiago			
Chicago		La Paz	-4		
Atlanta		San Juan			
Havana		Halifax			
Toronto	-5	St. John's	-3.5		
Lima		Buenos Aires	-3		
Washington DC		Montevideo			

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#### Note

- The above list shows the city names of this watch.
- If you will use the watch in a city that is not included in the City Name List, select a city name that is in the same time zone as your city.
- Time zones in the above list are in accordance with Coordinated Universal Time (UTC).
- \* In June 2012, the time offsets of the cities listed below were changed by +1 hour. Note that this watch does not reflect this change and it uses the former offsets of these cities. When using this watch in the cities below, always leave the summer time setting ON in order to advance the time by one hour.  
 Moscow  
 Novosibirsk  
 Vladivostok

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