Operation Guide 2696/2832(B)

CASIO

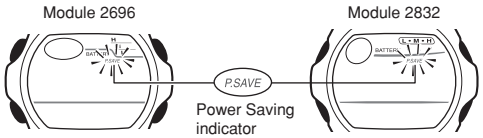
Power Saving

Power Saving causes the watch to automatically enter a sleep state to save power whenever the watch is left in the dark.

- Note that the watch may also enter the sleep state if the watch is blocked from light by your sleeve.

■ How the sleep state works

- **Display sleep state**
  The display sleep state is triggered whenever the watch is left in the dark for about one hour between the hours of 10 p.m. and 6 a.m.
  - The watch enters the display sleep state, which causes the display to go blank. Alarms and the hourly time signal continue to operate normally while the watch is in the display sleep state.
  - The watch does not enter the sleep state if it is in the Stopwatch Mode.



  - The module number is engraved on the back cover of the watch case.

- **Function sleep state**
  The function sleep state is triggered whenever the watch is left in the dark for six or seven days.
  - The Power Saving indicator stops flashing and remains on the display. Alarms and the hourly time signal are also disabled while the watch is in the function sleep state. Time calibration signal reception is not performed while the watch is in the function sleep state.
    - Digital timekeeping functions continue to operate normally in the function sleep state.

■ To recover from the sleep state

Place the watch in an area that is well-lit, press any button, or angle the watch toward your face to illuminate the display of the watch using the Auto Light.

- It can take up to two seconds before display figures re-appear after you place the watch in a well-lit area.

■ To turn Power Saving on and off

Use the procedure under “Configuring Time and Date Settings Manually” to turn Power Saving on or off.

- Power Saving is designed to conserve power when you do not use the watch for a long time.
- To conserve power, the World Time that you can display on the Timekeeping Mode stops while the watch is in a sleep state. When the watch recovers from a sleep state, the Timekeeping Mode World Time restarts from the time that it stopped when the sleep state was entered. To correct the World Time, change to the World Time mode and then return to the Timekeeping Mode. Note that the Timekeeping Mode World Time will not stop if Power Saving is turned off.

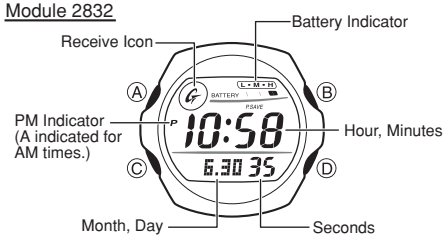
Modes and Display Screens

- **The actual appearance of your watch display depends on its module number.**
- **All display examples shown here use Module 2832. The module number is engraved on the back cover of the watch.**

Timekeeping Mode

Module 2696

Module 2832



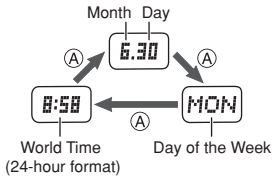
Days of the Week

SUN: Sunday MON: Monday TUE: Tuesday
WED: Wednesday THU: Thursday FRI: Friday
SAT: Saturday

To switch between display screens

Each press of the Ⓐ button cycles through screens in the sequence shown below.

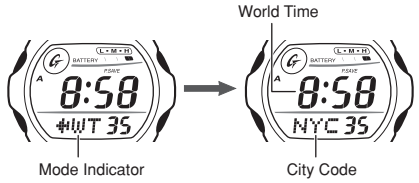
- The World Time screen shows the current time, in 24-hour format, of the city that is currently selected in the World Time Mode.



- For information about the battery indicator, see “Battery Indicator”. For information about the receive icon, see “Receive Icon”.

Ⓒ

World Time Mode

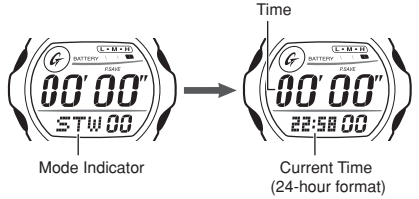


Ⓒ

Alarm Mode

Ⓒ

Stopwatch Mode



Ⓒ

- The watch will automatically revert to the Timekeeping Mode if you leave it in the Alarm Mode without performing any operation for about two or three minutes.
- In the Stopwatch Mode, the current time is always displayed using 24-hour format.

Operation Guide 2696/2832(B)

CASIO

Power Supply

The power supply of this watch uses a solar cell to generate electrical power, which is stored by a rechargeable battery. Using or storing the watch where it is not regularly exposed to light, or allowing it to be blocked from light by your sleeve as you are wearing it can cause the power of the rechargeable battery to run down. To ensure stable operation, be sure to allow the watch to be exposed to light as much as possible when you are wearing or storing it.

Note that all data in memory and all settings are cleared whenever you allow the level of the rechargeable battery to drop to Level 4.

■ Flashing Recover Indicator

If you use the light or alarms a number of times during a short period, a RECOVER indicator flashes on the display and the following operations become disabled as battery power recovers.

- Display illumination,
- Alarm and hourly time signal
- Time calibration signal reception

RECOVER Indicator

Normal operation will return after the battery recovers.

■ Battery Indicator

	2696	2832	
Level 1			All functions enabled.
Level 2			All functions enabled.
Level 3			Display, display illumination, alarms, hourly time signal, and signal reception disabled.
Level 4	(Off)	(Off)	All functions, including digital timekeeping, disabled.

- "2696" and "2832" indicate module numbers.
- Exposing the watch to direct sunlight or other strong light may cause the battery level indicator to momentarily indicate a level that is higher than the actual battery level. Because of this, you should wait for a short while after charging to check the battery level indicator.
- Even if the battery level drops all the way to Level 4, you will still be able to recharge the battery and use the watch again.
- When recharging from Level 4, set the current time and date after the battery level recharges to Level 3. At this time you should continue to expose the watch to light so it can charge up the Level 2 or Level 1.

■ Start charging at Level 3!

Battery Level 3 indicates that remaining battery power is very low. Be sure to expose the watch to light for recharging as soon as possible after the Level 3 indicator starts to flash.

■ Charging Precautions

Avoid charging the watch in the following locations, and anywhere else where the watch may become very hot.

- On the dashboard of an automobile parked in the sun
- Very close to an incandescent light source or other sources of heat
- In a location exposed to direct sunlight for long periods

Note that the display panel may become black under very high temperatures. This is temporary, and the display will appear normal again at lower temperatures.

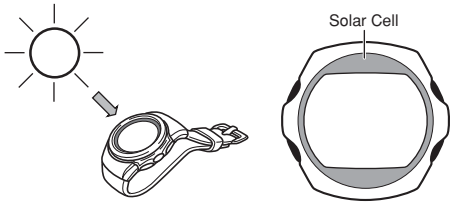
⚠ Depending on the light source you are using, the case of the watch may become quite hot during charging. Take care to guard against burn injury after charging.

■ To charge the battery

Point the solar panel (display) of the watch at a light source.

- Remember that even a partial blockage of the solar cell reduces charging efficiency.

Example: Positioning the watch



- The illustration shows the resin band model.

■ Charging Guide

Starting from a full charge, the watch should be able to continue operating for about nine months without further charging under the conditions described below.

Daily Use (All time values are approximate.)
- Display Illumination: 1.5 seconds
- Alarms: 10 seconds
- Signal reception: 3 times
- Digital display: 18 hours

Making sure the watch is regularly exposed to light ensures stable operation.

Required Daily Charging Time

- The following is the daily amount of charging required each day to support the operations under "Daily Use".

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 hour

- Charge Times Required to Advance to a Higher Level

Exposure Level (Brightness)	Approximate Exposure Time Level 4 ➡ Level 3	Level 3 ➡ Level 2	Level 2 ➡ Level 1
Outdoor Sunlight (50,000 lux)	2 hours	24 hours	7 hours
Sunlight Through a Window (10,000 lux)	6 hours	118 hours	33 hours
Daylight Through a Window on a Cloudy Day (5,000 lux)	8 hours	— — —	— — —
Indoor Fluorescent Lighting (500 lux)	89 hours	— — —	— — —

- Note that the above charging times are for reference only. Actual charging time depends on a variety of environmental factors.

Display Illumination

An EL (electro luminescent) panel is used to illuminate the display of the watch for easy reading in the dark. An auto light switch automatically illuminates the display when you angle the watch towards your face for reading.

■ To illuminate the display manually

When any screen besides a setting screen (one with a flashing setting), press the Ⓑ button to illuminate the display of the watch.

- The display remains illuminated for about 1.5 seconds.
- Pressing the Ⓑ button illuminates the display regardless of whether the auto light switch is on or off.

You may hear a faint rattling sound when you move the watch around. This sound is caused by the movement of a metal bulb that controls operation of the auto light switch, and does not indicate malfunction.

Illuminating the Display with the Auto Light Switch

The full auto light switch automatically illuminates the display whenever you angle the watch towards your face for reading, but only when it is dark.
- The full auto light switch does not illuminate the display when surrounding light is bright.

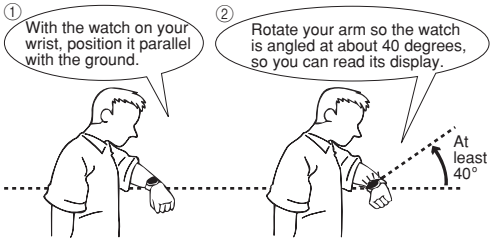
The auto light switch is very handy for reading the display in the dark. The auto light switch illuminates the display for 1.5 seconds in all modes when you angle the watch towards your face.

■ To turn on the auto light switch

In any mode (except when a settings screen is on the display), hold down the Ⓓ button for about two seconds to toggle the auto light switch on (auto light switch on indicator displayed) and off (no indicator displayed).

Auto light switch on Indicator

■ To illuminate the display



- You should be wearing the watch on the outside of your wrist when using the auto light switch.
- Make sure that the left (9 o'clock) and right (3 o'clock) sides of the watch are within ±15 degrees of being parallel with the ground. The auto light switch may not operate properly if the angle is greater.

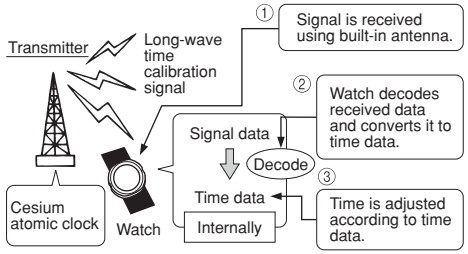
Display Illumination Precautions
- The light may be difficult to see if you turn it on under bright sunlight.
- If you press the Ⓑ button or if an alarm operation starts while the display is illuminated, illumination will turn off.
- You may notice a slight sound from the watch while the display is illuminated. This is the sound of EL panel vibration, and does not indicate malfunction.

Auto Light Precautions
- Frequent use of the auto light can run down the battery.
- The auto light switch may turn on illumination when the display of the watch is shaded by your sleeve.
- Illumination may not turn on immediately when you angle the watch towards your face. This does not indicate malfunction.
- Illumination remains turned on for about 1.5 seconds only, even if you leave the watch angled towards your face.
- The display may illuminate unintentionally when you wear the watch on the inside of your wrist, when you shake your arm, or when you raise your arm. **Be sure to turn off the auto light switch whenever you do not need display illumination.**
- Keep the auto light switch turned off whenever you are wearing the watch on the inside of your wrist.
- Electro-static charge and magnetism can interfere with auto light operation and even make operation impossible. If this happens, lower your arm to the starting position and then raise it again. If you still have trouble with display illumination, try lowering your arm down to your side and then raise it to your face for reading.

How a Radio-controlled Watch Works

What is a radio-controlled watch?

Your radio-controlled watch is designed to receive a time calibration signal that contains standard time data, and adjust its current time setting accordingly.



After the watch receives the Standard Time signal, it performs internal calculations to determine the current time. Because of this, there may be an error of up to one second in the displayed time.

Calibration Signal

- The Japanese calibration signal (Call Sign: JJY) is maintained by the independent Japan Ministry of Posts and Telecommunications Communication Research Laboratory (CRL). It is a long wave signal transmitted 24 hours a day from the Mt. Otakadoya transmitter (40kHz) located in Tamura-gun, Fukushima Prefecture, and from the Mt. Hagane transmitter (60kHz) located on the border between Saga Prefecture and Fukuoka Prefecture.
- The U.S. calibration signal (Call Sign: WWVB) is transmitted by the National Institute of Standards and technology from Fort Collins, Colorado.

Note that transmission of the standard wave may be interrupted occasionally due to maintenance, lightening, etc.

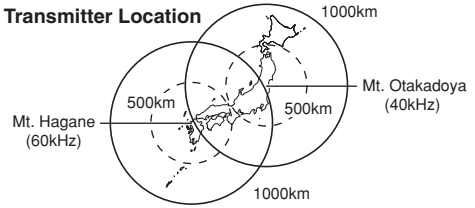
Reception Range

This watch is designed to receive the standard time calibration signal of Japan (JJY) or of the United States (WWVB). The signal that is received depends on the current Home City setting.

- For information about selecting a Home City, see “Selecting Your Home City”. For information about city codes, see the “World Time City Code List”.

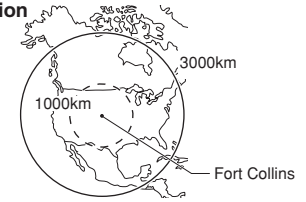
Home City	Transmitter
TYO	Either the Mt. Otakadoya signal (40kHz) or the Mt. Hagane signal (60kHz)
LAX, DEN, CHI, NYC	Fort Collins, Colorado signal

Transmitter Location



- Under optimum conditions, the calibration signal should be receivable up to 1,000 kilometers from the transmitter. Note that the wave is relatively weak at distances greater than 500km, so reception may be poor at long distances.

Transmitter Location



- Under optimum conditions, the calibration signal should be receivable up to 3,000 kilometers from the transmitter. Note that the wave is relatively weak at distances greater than 1,000km, so reception may be poor at long distances.

- Geographic contours, nearby buildings, the season, the time of day, can even make reception impossible even when you are within range of the transmitter.
- Best reception is possible late at night.

Location

Reception is difficult and may even be impossible in the locations described below. Avoid such locations when performing signal reception.

- You should think of your watch operating like a radio or TV when it is receiving the calibration signal.


Among or near buildings


Near high-voltage lines


Inside a vehicle (automobile, train, plane, etc.)


Next to a household appliance or office equipment (TV, speaker, fax, computer, cell phone, etc.)


In a location where there is radio interference (construction site, airport, etc.)


Near mountains

If you are experiencing problems with reception, move away from the types of locations described above to a location with better reception, and try again.

Receiving the Calibration Signal

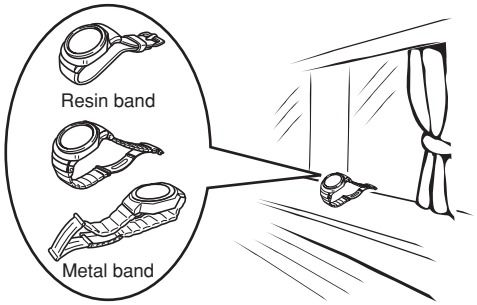
There are two methods you can use to receive the time calibration signal.

- Auto receive (Reception is performed automatically at midnight, 2:00, and 4:00 each morning.)
- Manual receive (You initiate reception using a button operation.)

- If reception is not successful for any of the normal auto receive operations shown above, auto receive is performed one more time at 5:00 a.m.
- The watch is set up for auto receive at the factory, so all you need to do is to place it in a location that allows good reception each night.

■ To position the watch for optimum reception

Remove the watch from your wrist and place it somewhere so its top (12 o’clock side, where the antenna is located) is facing approximately in the direction of the signal transmitter. Keep the watch away from metal objects.



- Orienting the watch so it is sideways to the transmitter makes it more difficult to receive the signal.
- Do not move the watch while it is receiving the calibration signal.

■ Time Required for Reception

A calibration signal receive operation takes anywhere from about two to six minutes.

- Note that when “FREQ.A” (Auto Select) is specified as the transmitter selection mode, signal reception can take up to 12 minutes.
- See “Configuring Transmitter Selection Mode Settings” for more information.

■ To perform manual receive

Hold down the Ⓓ button for about two seconds.

- The watch will beep and reception will start. The “G” icon flashes on the display while signal reception is in progress.

■ To interrupt reception

Press the Ⓓ button.

- All other buttons besides Ⓓ are disabled during signal reception.

When reception is successful

The watch terminates reception and adjusts the current time. Next it beeps and then displays the date and time the adjustment was performed.

- The “G” icon on the display also indicates successful signal reception. The “G” icon is cleared from the display each day at 3:00 a.m.

Reception Error (ERR Indicator)

The watch does not adjust its current time setting, and displays “ERR” when signal reception is unsuccessful for some reason.

- The display will return to the normal timekeeping screen automatically if you do not perform any operation for about one or two minutes.

■ Receive Icon

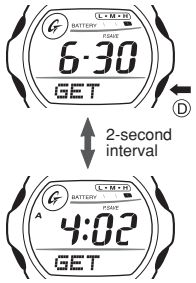
The receive icon cycles from “Unstable” through “Stable” as shown below while reception is in progress. How far it cycles depends on the signal strength. Keep the watch in a location where reception is stable while reception is in progress.

- Even under optimum reception conditions, it can take about 10 seconds for reception to stabilize.

- Use the receive icon to check reception status and to determine the best location for signal reception.
- Note that weather, the time of day, surroundings, and other factors can all affect reception.

■ To view the last reception date and time

In the Timekeeping Mode, press the Ⓓ button.



- This displays the date and time when signal reception was last successful, and the current time and date were adjusted.
- To return to the timekeeping screen, press the Ⓓ button again.
- The display will return to the normal timekeeping screen automatically if you do not perform any operation for about one or two minutes.

Important!

- The calibration signals received by this watch include two data groups: an hour-minute-second group and a year-month-day group.
- The "G" icon is displayed only when both the hour-minute-second group and year-month-day group were received. It will not remain on the display if only the hour-minute-second group was received.

Hour-minute-second group
and year-month-day group received: "G" displayed
Hour-minute-second group only received: "G" not displayed

- If only hour, minute, and second data (no date data) is received, the last reception date shows the date that the receive operation was performed (as kept in the Timekeeping Mode).

Signal Reception Settings

- **Home City**

Specify the city code of your "Home City", which is the location where you will normally use the watch.

- **Summer Time (Daylight Saving Time)**

Use this setting to specify whether summer time (Daylight Saving Time) settings should be made automatically by the watch.

- **Auto Receive**

This settings is used to select either auto receive or manual receive.

- **Transmitter Selection Mode**

This setting is used to specify which transmitter's signal should be used for time calibration in Japan.

- Auto receive can be selected only when TYO, LAX, DEN, CHI, or NYC is currently selected as the Home City.
- The transmitter selection mode setting can be changed only when TYO is currently selected as the Home City.

The initial factory default configuration of signal reception settings are shown below. You do not need to change these settings if you use the watch in Japan.

- Check the signal reception settings whenever you have problems with signal reception or when the time setting produced by signal reception is incorrect.

Home City	TYO	Tokyo
Summer Time	DST A	Auto switching in accordance with signal data
Auto Receive	AUTO On	ON
Transmitter	FREQ.A	Auto Japan transmitter select (40kHz/ 60kHz)

■ Selecting Your Home City

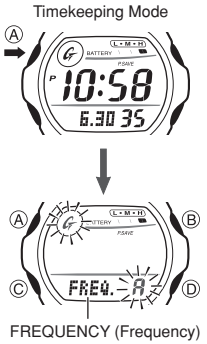
Note that time calibration signal reception is performed only when one of the city codes shown below is selected as the Home City.

- Select TYO (Tokyo) as you Home City if you plan to use the watch in Japan.

Home City	Transmitter
TYO	Either the Mt. Otakadoya signal (40kHz) or the Mt. Hagane signal (60kHz)
LAX, DEN, CHI, NYC	Fort Collins, Colorado signal

1. **In the Timekeeping Mode, hold down the Ⓐ button for about two seconds.**

- This will cause the watch to beep and display the transmitter selection mode setting screen.



Ⓐ Button
- Enters/exits the setting mode.

Ⓑ Button
- Scrolls back through the options at the flashing (selected) setting.

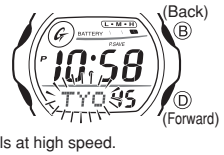
Ⓒ Button
- Moves the flashing between settings.

Ⓓ Button
- Scrolls forward through the options at the flashing (selected) setting.

2. **Press the Ⓒ button once to select the Home City setting.**

- The currently selected city code will be flashing on the screen.

3. **Use the Ⓓ (+) and Ⓑ (–) buttons to scroll through the city codes until the one you want to select is displayed.**



- Holding down either button scrolls at high speed.
- See the "World Time City Code List" for information about city codes.

4. **When the city code you want is displayed, press the Ⓐ button twice.**

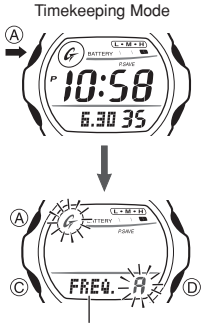
- This will exit the setting screen and return to the Timekeeping Mode screen.
- The display also will exit the setting screen automatically if you do not perform any operation for about two or three minutes.

Configuring Summer Time (Daylight Saving Time) Settings

- When using this watch in Japan, it is recommended that you use the "DST A" (Auto) summer time setting.

1. **In the Timekeeping Mode, hold down the Ⓐ button for about two seconds.**

- This will cause the watch to beep and display the transmitter selection mode setting screen.



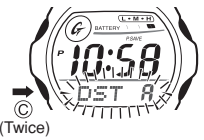
Ⓐ Button
- Enters/exits the setting mode.

Ⓒ Button
- Moves the flashing between settings.

Ⓓ Button
- Scrolls through the available settings.

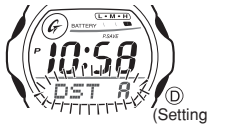
2. **Press the Ⓒ button twice to select the Summer Time setting.**

- The current DST setting will be flashing on the display.



3. **Press the Ⓓ button to cycle through the summer time settings in the sequence shown below.**

- Turning on summer time (DST On) causes the current time setting to advance one hour.



DST A → DST OF → DST On

• DST A

This setting enables the auto summer time setting, which turns summer time on or off in accordance with the received time calibration signal.

- This setting uses Japan summer time data when TYO is selected as the Home City, and U.S. summer time data when NYC, CHI, DEN, or LAX is selected as the Home City.
- Note that "DST A" can be selected only when TYO, LAX, DEN, CHI, or NYC is selected as the Home City.

• DST OF

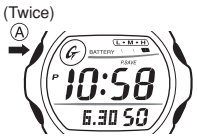
This setting turns off summer time and returns to normal timekeeping.

• DST On

This setting turns on summer time and advances the current time by one hour.

- The DST indicator appears on the display while summer time is turned on.

4. **When the summer time setting is the way you want, press the Ⓐ button twice.**



- This will exit the setting screen and return to the Timekeeping Mode screen.
- The display also will exit the setting screen automatically if you do not perform any operation for about two or three minutes.

Summer time, or Daylight Saving Time (DST) as is it is called in some areas, calls for setting clocks ahead one hour during the summer season. Note that the use of summer time depends on the country and even the local area.

Configuring Auto Receive Settings

Auto receive settings can be configured only when TYO, LAX, DEN, CHI, or NYC is selected as the Home City.

- When using this watch in Japan, it is recommended that you use the “DST A” (Auto) summer time setting.

1. **In the Timekeeping Mode, hold down the Ⓐ button for about two seconds.**

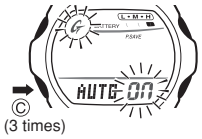
- This will cause the watch to beep and display the transmitter selection mode setting screen.

Ⓐ Button
- Enters/exits the setting mode.

Ⓒ Button
- Moves the flashing between settings.

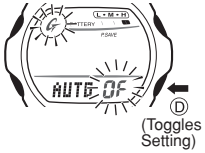
Ⓓ Button
- Scrolls through the available settings.

2. **Press the Ⓒ button three times to select the auto receive setting.**



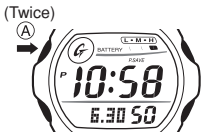
- “AUTO” will be displayed, along with the current auto receive setting.
  Example: AUTO On

3. **Press the Ⓓ button to toggle auto receive on or off.**



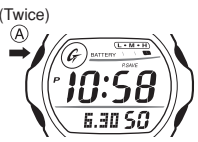
- “- -” is displayed for the auto receive setting when the current Home City setting is a code other than TYO, LAX, DEN, CHI, or NYC.

4. **When the summer time setting is the way you want, press the Ⓐ button twice.**



- This will exit the setting screen and return to the Timekeeping Mode screen.
- The display also will exit the setting screen automatically if you do not perform any operation for about two or three minutes.

3. **When the setting you want is displayed, press the Ⓐ button twice.**



- This will exit the setting screen and return to the Timekeeping Mode screen.
- The display also will exit the setting screen automatically if you do not perform any operation for about two or three minutes.

Calibration Signal Reception Precautions

- Auto reception can be performed while the watch is in the Timekeeping Mode or World Time Mode only.
- Operating any button while auto reception is in progress will cause the watch to beep and then exit the receive operation.
- Make sure you are within the range of the calibration signal transmitter before performing the reception operation. Remember that geographic contours, nearby buildings, the season, the time of day, can even make reception impossible even when you are within range of the transmitter.
- Proper reception may be impossible if there is something blocking the signal. If reception is unsuccessful, try again.
- This watch is designed to adjust its current time setting in accordance with the calibration signal transmitted in Japan and the United States only. Note that you will need to make your own adjustments when using this watch outside of Japan or the United States, or in any area that is outside the range of one of the receivable time calibration signal transmitters.
- When the watch is unable to adjust its time signal using the calibration signal for some reason, timekeeping accuracy is within ±15 seconds per month.
- Strong electrostatic charge can cause timekeeping error.
- Signal reception is cancelled if an alarm starts to sound while it is being performed.
- The watch’s calendar shows dates up to the year 2099. Attempting a receive operation after that causes an error.

Configuring Transmitter Selection Mode Settings

Note that the transmitter selection mode setting can be configured only when “TYO” (Tokyo) is selected as the Home City.

- When using this watch in Japan, it is recommended that you use the “FREQ. A” (Auto Select) transmitter selection mode setting.

1. **In the Timekeeping Mode, hold down the Ⓐ button for about two seconds.**

- This will cause the watch to beep and display the transmitter selection mode setting screen.

Ⓐ Button
- Enters/exits the setting mode.

Ⓓ Button
- Scrolls through the available settings.

2. **Use the Ⓓ button to scroll through the transmitter selection mode settings until the one you want is displayed.**

- Each press of the Ⓓ button cycles through available settings in the sequence shown below.
- “- -” is displayed for the transmitter selection mode setting when the current Home Time setting is a code other than TYO.

• FREQ.A
With this setting, the watch automatically selects either the Mt. Otakadoya signal (40kHz) or the Mt. Hagane signal (60kHz), whichever is strongest.

• FREQ.40
With this setting, the watch always receives the Nt. Otakadoya signal (40kHz).

• FREQ.60
With this setting, the watch always receives the Mt. Hagane signal (60kHz).

Troubleshooting

The watch cannot receive the time calibration signal.

- Is the signal being transmitted?
  Though the Japanese calibration signal (Call Sign: JJY) is continually transmitted by the independent Japan Ministry of Posts and Telecommunications Communication Research Laboratory (CRL) in theory, it may sometimes be interrupted for periodic maintenance work, or because of lightening or other problems.
- Are you within the reception range of a transmitter?
  See “Reception Range” for information about areas where the watch can receive the signal.
- Is there something in the immediate area that may be interfering with reception?
  Even if you are within the reception range of a transmitter, objects between you and the transmitter or electrical noise can interfere with reception. Avoid such areas during signal reception. See “Location” for more information.
- Do you have the correct Home City code selected?
  Remember that auto receive is not performed unless TYO (Japan), NYC (New York), CHI (Chicago), DEN (Denver), or LAX (Los Angeles) is selected as the Home City. Select the correct Home City code using the procedure under “Selecting Your Home City”.
- Is auto receive turned off?
  Use the procedure under “Configuring Auto Receive Settings” to turn on auto receive.
- Is the watch in any mode other than the Timekeeping Mode or World Time Mode during the auto receive times (midnight, 2:00 a.m., 4:00 a.m., and 5:00 a.m.)?
  Auto receive is performed only when the watch is in the Timekeeping Mode or World Time Mode. It is not performed if the watch is in any other mode.

Time calibration signal reception is successful, but the hourly time signal and current time are slightly off.

- After the watch receives the time calibration signal, it performs an internal decoding process before updating its time setting. Because of this, the time setting may be slightly off (within one second).

Time calibration signal reception is successful, but the current time is one hour fast.

- Do you have summer time (DST) turned on?
  Use the procedure under “Configuring Summer Time (Daylight Saving Time) Settings” to turn off summer time.

Time calibration signal reception is successful, but the current time setting is wrong.

- Is the correct city code selected for your Home City?
  If you are in Japan, you should have TYO selected for your Home City. For other areas, select the correct Home City code using the procedure under “Selecting Your Home City”.

Auto receive is turned on, but the receive icon "G" is not on the display.

- The receive icon appears when a signal is received successfully and the time is updated. It is not displayed if there is no successful signal reception throughout the day. Also note that the icon disappears from the display each day at 3:00 a.m. Make sure that you are using the watch in an area that is within the reception range of a transmitter, and make sure that the watch is in the Timekeeping Mode or World Time Mode when it is time for auto signal reception.

The current auto receive on (AUTO On)/off (AUTO OF) setting does not appear on the setting screen.

- The auto receive on/off setting is not displayed unless TYO (Japan), NYC (New York), CHI (Chicago), DEN (Denver), or LAX (Los Angeles) is selected as the Home City. Select the correct Home City code using the procedure under "Selecting Your Home City".

The A, 40, and 60 options do not appear for the transmitter selection mode setting.

- The A, 40, and 60 transmitter selection mode options are available only when TYO (Tokyo) is selected as the Home City code. Select the correct Home City code using the procedure under "Selecting Your Home City".

What time is auto receive performed?

- Auto receive is performed in the middle of the night, when reception conditions are best. Before going to bed at night, place the watch near a window, with its 12 o'clock position facing in the general direction of the transmitter.

How can I perform manual receive?

- Hold down the lower right Ⓓ button for about two seconds. The watch will beep to indicate that manual receive has started. Place it near a window, with its 12 o'clock position facing in the general direction of the transmitter.

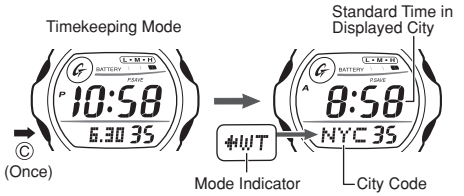
How can I view the last reception date and time?

- In the Timekeeping Mode, press the lower right Ⓓ button. This will display the date and time that the time calibration signal was last received successfully. To return to the Timekeeping Mode, press the Ⓓ button again.

World Time Mode

World time lets you display the current time in any one of 30 cities (29 time zones) around the world.

When you enter the World Time Mode, the screen for the city that was displayed when you last exited the mode appears first.



- After you set the current time for the Home City in the Timekeeping Mode, the World Time Mode calculates the current time in other cities around the world using the GMT differential for each time zone.
- The seconds count in the World Time Mode is linked with the Timekeeping Mode seconds count.

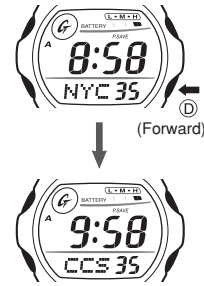
If a World Time Mode time is incorrect, check the time setting and time zone setting of the Timekeeping Mode, and correct them if necessary.

- See "Selecting Your Home City" for information about selecting your Home City.

City Code Search

In the World Time Mode, press the Ⓓ button to scroll through city codes.

- Holding down the Ⓓ button scrolls at high speed.
- See the "World Time City Code List" for information about the display sequence of the city codes.



Ⓓ Button

- Scrolls through city codes.

Turning Summer Time (Daylight Saving Time) On and Off

You can turn summer time on or off individually for each World Time city.

Summer time, or Daylight Saving Time (DST) as is it is called in some countries, calls for setting clocks ahead one hour during the summer season. Note that the use of summer time depends on the country and even the local area.

1. **In the World Time Mode, use the Ⓓ button to scroll through the city codes until the one you want is displayed.**

- Holding down the Ⓓ button scrolls at high speed.

2. **While the city code you want is displayed, hold down the Ⓐ button for about one second to turn summer time on (DST indicator displayed) or off (DST indicator not displayed).**

- The watch beeps whenever you change the summer time setting.

Ⓐ Button

- Hold down to turn summer time (Daylight Saving Time) on and off.

World Time City Code List

City Code	City Name	GMT Differential
– – –		–11
HNL	Honolulu	–10
ANC	Anchorage	–9
LAX	Los Angeles	–8
DEN	Denver	–7
CHI	Chicago	–6
NYC	New York	–5
CCS	Caracas	–4
RIO	Rio de Janeiro	–3
– – –		–2
– – –		–1
GMT	Greenwich Mean Time	+0
LON	London	+0
PAR	Paris	+1
BER	Berlin	+1
ATH	Athens	+2
CAI	Cairo	+2

City Code	City Name	GMT Differential
JRS	Jerusalem	+2
JED	Jeddah	+3
THR	Teheran	+3.5
DXB	Dubai	+4
KBL	Kabul	+4.5
KHI	Karachi	+5
DEL	Delhi	+5.5
DAC	Dakar	+6
RGN	Yangon	+6.5
BKK	Bangkok	+7
HKG	Hong Kong	+8
SEL	Seoul	+9
TYO	Tokyo	+9
ADL	Adelaide	+9.5
SYD	Sydney	+10
NOU	Noumea	+11
WLG	Wellington	+12

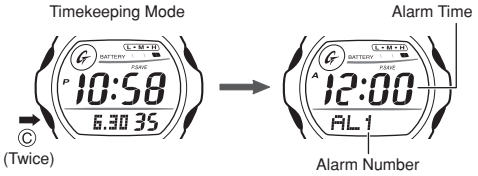
- The contents of the above table are current as of June 2003.
- Time differentials in the above table are in accordance with Universal Time Coordinated (UTC).

Alarm Mode

Your watch comes with five alarms and an hourly time signal.

- **Daily Alarms (AL 1 to AL 4)**
  The watch beeps for about 10 seconds when an alarm time is reached.
- **Snooze Alarm (SNZ)**
  With the snooze alarm, the watch beeps for 10 seconds when the alarm time is reached, and up to seven times at five-minute intervals thereafter (approximately 30 minutes total). Pressing any button stops the beeper, but the alarm will sound again after five minutes.
- **Hourly Time Signal**
  The hourly time signal causes the watch to beep twice every hour on the hour.

When you enter the Alarm Mode, the screen for the alarm that was displayed when you last exited the mode appears first.



■ To select an alarm or the Hourly Time Signal screen

Each press of the Ⓓ button cycles through available screens in the sequence shown below.

■ To set an alarm time

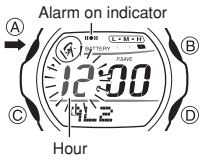
Example: To set Alarm 2 for 3:30 p.m.

1. **In the Alarm Mode, use the Ⓓ button to scroll through the alarm screens until the one whose setting you want to change is displayed.**

- The alarm number or snooze alarm indicator (SNZ) appears at the bottom of the display to indicate the current screen.

2. **Hold down the Ⓐ button for about two seconds until the hour digits start to flash on the display.**

- This also causes the alarm on indicator to appear and automatically turns on the alarm.



Ⓐ Button
- Enters/exits the setting mode.

Ⓑ Button
- Scrolls back through the options at the flashing (selected) setting.

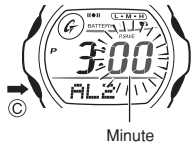
Ⓒ Button
- Moves the flashing between settings.

Ⓓ Button
- Scrolls forward through the options at the flashing (selected) setting.

3. **Use the Ⓓ (+) and Ⓑ (–) buttons to change the hour setting.**

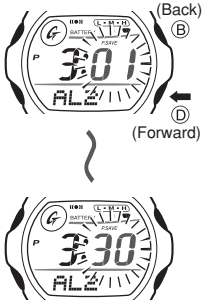
- Holding down either button changes the setting at high speed.
- When setting the hour, make sure you specify AM (A) or PM (P) correctly when using 12-hour timekeeping, or that you specify the correct 24-hour time.
- The same 12-hour/24-hour format you select for the Timekeeping Mode time is also applied in the Alarm Mode.

4. **Press the Ⓒ button to select the minute setting.**



5. **Use the Ⓓ (+) and Ⓑ (–) buttons to change the minute setting.**

- Each press of the Ⓑ (+) and Ⓓ (–) button changes the minute setting in 30-minute increments.
- Holding down either button changes the setting at high speed.



6. **When the setting is the way you want, press the Ⓐ button.**

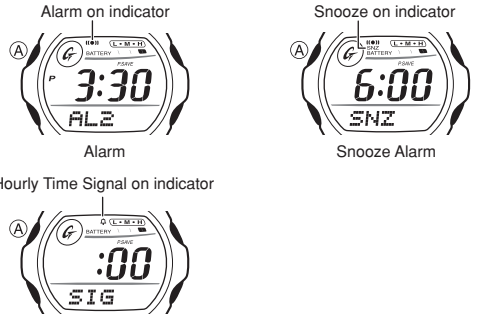
- This exits the setting screen.
- The display also will exit the setting screen automatically if you do not perform any operation for about two or three minutes.

■ To turn an alarm or the hourly time signal on and off

1. **In the Alarm Mode, use the Ⓓ button to display the screen for the alarm you want to turn on or off.**

- The alarm number or snooze alarm indicator (SNZ) appears at the bottom of the display to indicate the current screen.

2. **Press the Ⓐ button to toggle the displayed alarm on or off.**



■ To stop the alarm beeper

Press any button.

- In the case of the snooze alarm the alarm will sound again in about five minutes. “SNZ” flashes while the snooze alarm is active (indicating that the alarm will sound again).
- The snooze alarm will be canceled automatically when any of the following occurs while the SNZ indicator is flashing on the display.
  - If you turn off the snooze alarm in the Alarm Mode.
  - If you enter the Alarm Mode, display the snooze alarm screen, and then display the setting screen.
  - If you enter the Timekeeping Mode and then display the setting screen.

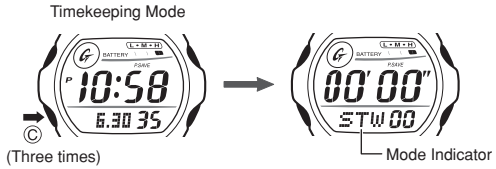
■ To test the alarm

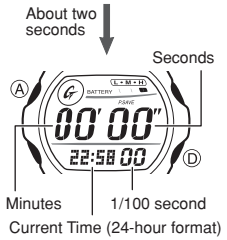
In the Alarm Mode, hold down the Ⓓ button to sound the alarm.

Stopwatch Mode

The stopwatch measures elapsed time in units of 1/100 second up to 59 minutes, 59.99 seconds (60 minutes). When the maximum limit is reached, the elapsed time automatically returns to zero and timing continues from there.

Performing Stopwatch Operations





Ⓐ Button
- Split/Reset
- Press during elapsed time measurement to display the split time.
- Press when elapsed time measurement is stopped to reset the stopwatch to all zeros.

Ⓓ Button
- Start/Stop
- Each press starts and stops elapsed time measurement.

■ Elapsed Time Measurement

Ⓓ → Ⓓ → Ⓐ
Start Stop Reset

Pressing the Ⓐ button while timing is stopped resets the stopwatch to all zeros.

Cumulative Time Measurement

Pressing the Ⓓ button to restart the stopwatch without resetting it to all zeros causes the elapsed time measurement to resume from where it was last stopped.

■ Split Time Measurement

Ⓓ → Ⓐ → Ⓐ → Ⓓ → Ⓐ
Start Record split Release split Stop Reset

Pressing the Ⓐ button while timing is being performed freezes the current elapsed time on the display, but timing of the next split continues internally.

- Changing to another mode while a split time is displayed cancels the split time operation.

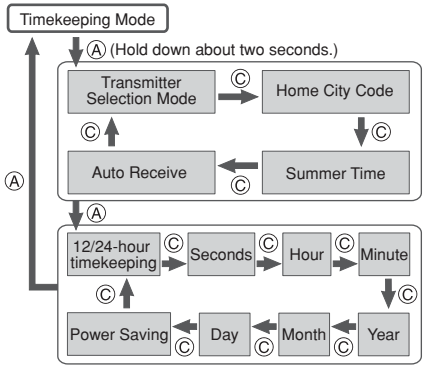
■ 1st and 2nd Place Finishers

Ⓓ → Ⓐ → Ⓓ → Ⓐ → Ⓐ
Start 1st finish (Displays time of 1st finish.) 2nd finish Displays time of 2nd finish. Reset

Configuring Time and Date Settings Manually

Normally, you should never need to configure time and date settings manually if you have auto receive turned on and you are within the range of a time calibration signal. If the watch is unable to update its settings automatically for some reason, however, you can configure them manually as described below.

Time and Date Settings



- While the setting screen (the one with a flashing setting) is on the display, use the Ⓒ and Ⓐ buttons to move the flashing between settings.

Ⓐ Button
- Displays the setting screen.
- Changes from the first setting group to the next.
- Exits the setting screen.

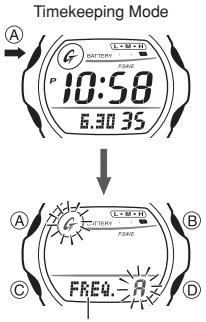
Ⓒ Button
- Moves the flashing between settings.

See “Signal Reception Settings” for information about calibration signal, Home City, summer time, and auto receive settings.

■ To configure time and date settings manually

1. **In the Timekeeping Mode, hold down the Ⓐ button for about two seconds.**

- This will cause the watch to beep and display the transmitter selection mode setting screen.



Ⓐ Button
- Displays the setting screen.
- Changes from the first setting group to the next.
- Exits the setting screen.

Ⓑ Button
- Scrolls back through the options at the flashing (selected) setting.

Ⓒ Button
- Moves the flashing between settings.

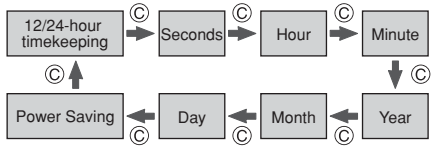
Ⓓ Button
- Scrolls forward through the options at the flashing (selected) setting.

2. **Press the Ⓐ button to advance to the next group of settings.**

- This causes the 12/24-hour timekeeping setting to flash.
  Example: 12H (12-hour timekeeping)

3. **Use the Ⓒ button so the setting you want to change is flashing on the display.**

- Use the Ⓒ button to cycle through the time and date settings shown below. Each press of Ⓒ causes the applicable setting to flash.



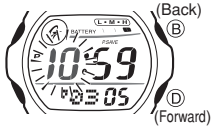
4. **While the 12/24-hour timekeeping setting is flashing, press the Ⓓ button to select the setting you want.**

- Pressing the Ⓓ button toggles the timekeeping format between 12-hour (“12H” indicator) and 24-hour (“24H” indicator).

5. **To restart the seconds count to 00, press the Ⓓ button.**

- Pressing the Ⓓ button while the seconds count is in the range of 30 to 59 resets it to 00 and also adds 1 to the minutes. Pressing the Ⓓ button in the range of 00 to 29 resets the seconds count without changing the minutes.

6. **While the hour, minutes, year, month, or day setting is flashing, use the Ⓓ (+) and Ⓑ (–) buttons to change the setting.**



- Holding down either button changes the setting at high speed.
- When setting the hour, make sure you specify AM (A) or PM (P) correctly, or that you specify the correct 24-hour time.
- You can set a date in the range of January 1, 2000 to December 31, 2099.
- The day of the week is set automatically in accordance with the date you set.

7. **While the Power Saving setting is flashing, press the Ⓓ button to toggle it on (PS On) or off (PS OF).**

Use the Ⓒ button to select each of the settings and the Ⓓ and Ⓑ buttons to change them.

8. **When the settings are the way you want, press the Ⓐ button.**

- This exits the setting screen.
- The display also will exit the setting screen automatically if you do not perform any operation for about two or three minutes.

- **The watch automatically makes adjustments for leap years and month lengths.**