

Operation Guide 3452

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Before Getting Started...

This section provides an overview of your watch and explains how to connect with a phone. You can configure watch settings to connect with a phone at preset times each day and adjust its time settings in accordance with information obtained from a network time server. You can also change the watch's time settings manually and configure other watch settings from the phone.

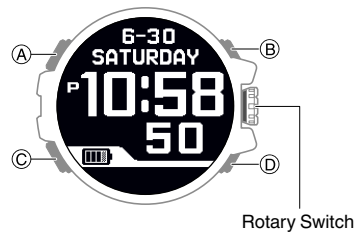
Important!

- This watch is not a special-purpose measuring instrument. Measurement function readings are intended for general reference only.
- The watch's Altimeter Mode calculates and displays relative altitude based on barometric pressure readings produced by its pressure sensor. Because of this, altitude values displayed by the watch may be different from your actual elevation and/or sea level elevation indicated for the area where you are located. Regular calibration in accordance with the local altitude (elevation) indications is recommended.
 - 🔗 [Altimeter Measurement](#)
- Whenever using the Digital Compass of this watch for serious trekking, mountain climbing, or other activities, be sure always to take along another compass to confirm readings. If the readings produced by the Digital Compass of this watch are different from those of the other compass, perform 3-point calibration of the Digital Compass to ensure better accuracy.
 - Compass readings and calibration will not be possible if the watch is in the vicinity of a permanent magnet (magnetic accessory, etc.), metal objects, high-voltage wires, aerial wires, or electrical household appliances (TV, computer, cellphone, etc.)
 - 🔗 [Digital Compass](#)
- Some of the functions of this watch cannot be used unless it is connected with a phone. You should also leave the phone's location information setting turned on. Otherwise, the phone will not be able to acquire latitude and longitude information, which may cause the watch to display incorrect information.
- The GPS navigation log data acquisition operation can cause deviation of the measurement intervals of other modes.

Note

- Note that the watch illustrations in this manual are intended for reference only. The actual watch may appear somewhat different than depicted in the illustrations.

Button Operations



A button

Press to display the setting screen of the current mode.

B button

Press to turn on illumination.

C button

Press to display the mode selection screen. Hold down for about one second to return to the Timekeeping Mode.

Pressing (C) while a setting screen is displayed will go back one screen.

D button

Pressing in the Timekeeping Mode displays the auto time adjustment selection screen.

Rotary Switch

Press in any mode to display the navigation screen.

Pressing this switch while a setting screen is displayed applies a selected setting or a setting change.

Rotating this switch while a setting screen is displayed scrolls through available menu items.

Mode Overview

This section provides an overview of the modes of your watch.

Mode Overview

GPS Navigation Mode

Use this mode to record routes that you travel and to check the bearing to your destination. You can also record your current location in watch memory.

🔗 [GPS Navigation](#)



Timekeeping Mode

This mode shows the current time and date. You can also use it to configure Home City, alarm, and other basic timekeeping settings.



Communication Mode

Use this mode to connect with a phone. You can transfer watch data to a phone, and configure watch settings with a phone.

🔗 [Connecting the Watch with a Phone](#)



Digital Compass Mode

Use this mode to take direction and bearing angle readings.

🔗 [Digital Compass](#)



Altimeter Mode

Use this mode to take an altitude reading for your current location.

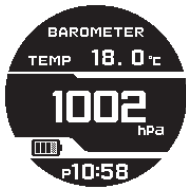
[Altimeter Measurement](#)



Barometer/Temperature Mode

Use this mode to take barometric pressure and temperature readings for your current location.

[Barometric Pressure and Temperature Measurement](#)



Sunrise/Sunset Mode

Use this mode to check the sunrise and sunset times for your Home City (time zone).

[Sunrise and Sunset Times](#)



Tide/Moon Mode

This mode displays tide levels and Moon age data for a location specified with the CASIO "G-SHOCK Connected" app.

[Tide Level and Moon Age](#)



Stopwatch Mode

Use this mode to measure elapsed time.

[Stopwatch](#)



Timer Mode

Use this mode to countdown from a desired start time.

[Timer](#)



World Time Mode

This mode shows the current time in 39 cities and UTC (Coordinated Universal Time) time.

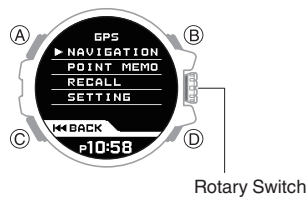
[World Time](#)



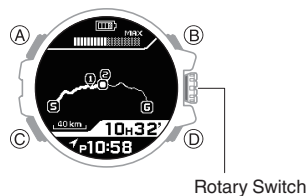
● Navigating Between Modes

Entering the GPS Navigation Mode

Pressing the rotary switch in any mode displays the GPS Navigation Mode setting screen.



Holding down the rotary switch in any mode for about one second displays the navigation screen.



Entering Another Mode (Other than the GPS Navigation Mode)

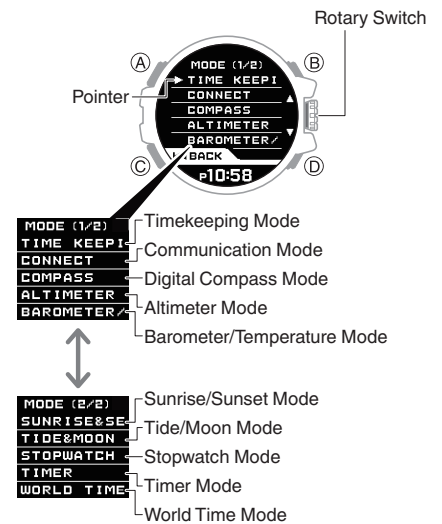
In any mode besides the GPS Navigation Mode, you can navigate between modes using the steps below.

1. Hold down (C) for about one second to enter the Timekeeping Mode.



2. Press (C).

3. Rotate the rotary switch to move the pointer to the mode you want to use.



4. Press the rotary switch.
This enters the selected mode.

Note

- You can also return to the Timekeeping Mode directly from any other mode by holding down (C) for about one second.
- You can also enter the Communication Mode directly from the Timekeeping Mode by holding down (C) for about 2.5 seconds.
- When the indicator shown below appears on the display while you are performing an operation, it means you can perform the procedure below to exit the operation.



- ① Press (C).
- ② Rotate the rotary switch to select whether or not you want to save the current settings.
[YES]: Current settings saved
[NO]: Current settings not saved
- ③ Press the rotary switch.

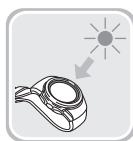
Charging the Watch

Solar Charging

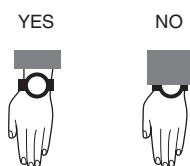
Power generated by the solar panel powers watch operations and also is used to charge a rechargeable (secondary) battery. The solar panel is integrated into the LCD of the watch, and power for charging is generated whenever the face is exposed to light.

● Charging the Watch

When you are not wearing the watch, put it in a location where it is exposed to bright light.



While you are wearing the watch, make sure that its LCD (solar panel) is not blocked from the light by the sleeve of your clothing. Power generation efficiency is reduced even when the LCD is blocked only partially.



Important!

- Depending on light intensity and local conditions, the watch may become hot to the touch when exposed to light for charging. Take care to avoid burn injury after charging. Also, avoid charging the watch under high-temperature conditions like the ones described below.
 - On the dashboard of a vehicle parked in the sun
 - Near an incandescent light bulb or other source of heat
 - Under direct sunlight or in other hot areas for long periods

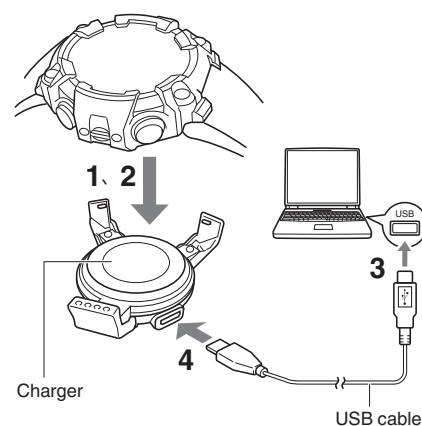
Charging with the Charger

Charging with the charger is faster than solar charging.

Important!

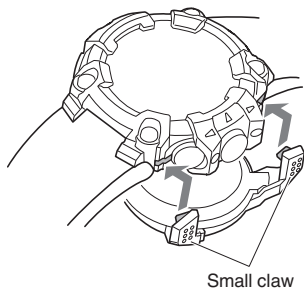
- Use only the supplied charger and USB cable for charging.
- A device with a USB port (Type-A) can also be used for charging.
- Note that no guarantees are made concerning the suitability of all types of USB ports for charging. If charging is not possible for some reason, disconnection from the USB port is recommended.
- Place the charger on a desk or other stable surface, making sure there is plenty of open space around it. Charging with the charger and watch in a bag or some other enclosed space can cause overheating of the watch and/or charger.
- Should water or any other liquid get onto the watch or charger during charging, immediately disconnect the USB cable from the power source.
- The charger unit is not waterproof. Avoid use in areas where moisture or high humidity is present.
- Perform charging in an environment where ambient temperature is between 5°C and 35°C (41°F and 95°F).

● To charge with the charger



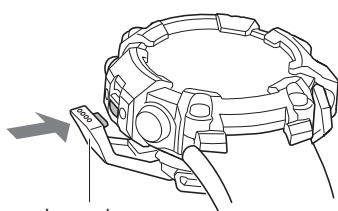
When preparing for charging, be sure to connect the devices in the sequence indicated by the numbers in the illustration above.

1. Position the watch so its right (rotary switch) side is aligned with the small claw of the charger.



Small claw

2. Secure the left side of the watch with the large claw of the charger.



Large claw

- Make sure that the claws of the charger securely grasp the watch, and that the watch is in close contact with the charger.
 - Charging may fail if there is space between the charger and watch. Also, foreign matter can get into the space and cause overheating of the watch and/or charger.
3. Turn on your computer or other device with a USB port (power source), and connect the USB cable to it.
 4. Connect the other end of the USB cable to the charger.

Press down on the watch and charger when connecting the USB cable to the USB port to ensure that they do not separate from each other.

- This starts charging and causes ⚡ to appear on the watch display.
- ⚡ disappears from the display when a full charge is achieved.



● Precautions When Charging

- GPS signals (for time adjustment, log acquisition, point memory, etc.) are not received while charging with the charger is in progress.
- The watch's GPS function will not be able to be used for about one minute after you remove it from the charger. During that period the watch also will not be able to detect whether it is connected to or disconnected from the charger.
- Do not attempt charging at high ambient temperatures of 35°C or greater. The watch becomes hot during charging, which will cause charging to stop. High ambient temperature may result in a less than full charge.
- Do not carry the charger in a bag or otherwise subject it to squeezing or crushing forces. Doing so can cause deformation of the claws so they become open too far, making it impossible to attach the watch to the charger.
- If an ongoing charging operation stops, remove the watch from the charger and disconnect the USB cable. After checking for and eliminating problems, try charging again.
- It may take some time for charging to start after the watch is attached to the charger.
- The watch and charger may become warm during charging. This is normal and does not indicate malfunction.

Note

- It takes about five hours for charging to start after the watch's display goes blank.
- Charging time depends on ambient temperature and other factors.

| Charging Time Guidelines

Charging each day for the approximate times shown below should be enough to maintain a charge of or higher.

At a charge of , all watch functions are supported, except for GPS.

[Checking the Charge Level](#)

Note

- Actual charging time depends on the local charging environment.

Solar Charging

Sunny day, outdoors (50,000 lux): 12 minutes/day

Sunny day, near a window (10,000 lux): 45 minutes/day

Overcast day, near a window (5,000 lux): 72 minutes/day

Note

- Charging is performed even with exposure to indoor fluorescent lighting (500 lux). The watch will be able to maintain a charge of or higher if it is exposed to indoor fluorescent lighting for eight hours a day, in addition to light near a window on a sunny day (10,000 lux) for two hours a week.

Charging with the Charger

1 minute/day

Checking the Charge Level

You can determine the watch's current charge level in any mode.

Charge level	Indicator	Usable Functions
High		All
Low		All functions except those that use GPS
		Timekeeping only (Button operations disabled.)

- When the battery indicator becomes or lower, the message [CHARGE] will also appear on the display.
- The display goes blank when the battery goes dead.

Important!

- Charge the watch as soon as possible after the battery indicator becomes or lower. Leaving the watch without charging for a number of months will result in over-discharge, and may make future charging impossible. If this happens, contact your original retailer.

Power Saving Function

Leaving the watch in a dark location in the Timekeeping Mode for 70 minutes or longer between the hours of 9 p.m. and 6 a.m. will cause the watch to enter Level 1 power saving. If the watch is left in this condition for six or seven days, the watch will enter Level 2 power saving. The display of the watch goes blank when the watch is in power saving.

Power Saving Level 1 :

The functions below can be used while the watch is in Level 1 power saving.

- Alarm
- Timer
- Phone connection

Power Saving Level 2 :

All functions disabled.

Recovering from Power Saving

Use one of the operations below to exit power saving.

- Press any button.
- Move the watch to a bright location.
- Trigger auto light by angling the watch towards your face.

Note

- The watch will not enter power saving in the cases below.
 - During sensor measurement operations in each mode, such as when the barometric pressure change indicator is enabled, etc.
 - While any mode's setting screen is displayed
 - While illumination is turned on
 - While the battery indicator is or lower
- Note that the watch also may enter power saving if its face is blocked from light by your sleeve while you are wearing it.

Pairing the Watch with a Phone

To connect the watch with a phone, first install the CASIO "G-SHOCK Connected" app on the phone and then use Bluetooth to pair the watch with the phone.

1 Install the app on your phone.

Depending on your phone type, tap one of the links below to install G-SHOCK Connected.

iOS (iPhone) Users

<https://itunes.apple.com/us/app/g-shock-connected/id1179983841?mt=8>

Android™ (GALAXY, etc.) Users

<https://play.google.com/store/apps/details?id=com.casio.gshockconnected>

2 Configure Bluetooth settings.

Enable the phone's Bluetooth.

Note

- For details about setting procedures, see your phone documentation.

3 Pair the watch with a phone.

Before you can use the watch in combination with a phone, you first need to pair them.

1. Move the phone to be paired with close to (within one meter of) the watch.
2. On the Home Screen, tap the "G-SHOCK Connected" icon.
3. Perform the operation shown on the screen of the phone to be paired with.
 - If a pairing prompt message appears, perform the operation shown on the phone screen.
 - Establishing a connection with a phone causes the screen shown below to appear on the watch.



Using the Watch in a Medical Facility or Aircraft

When you are in a hospital, on an aircraft, or in any other location where radio signals may cause problems, you can perform the procedure below to enter the watch's Airplane Mode, which disables auto GPS signal receive and connection with a phone. To re-enable auto time adjustment, perform the same operation again.

1. Enter the Timekeeping Mode.
[Navigating Between Modes](#)



Rotary Switch

2. Press (A).
 This displays the Timekeeping Mode setting screen.
3. Rotate the rotary switch to move the pointer to [AIRPLANE MODE].
4. Press the rotary switch.
5. Rotate the rotary switch to select the Airplane Mode setting.
 [ON]: Airplane Mode enabled
 [OFF]: Airplane Mode disabled.
6. Press the rotary switch to exit the setting screen.
 This returns to the Timekeeping Mode setting screen.
7. Press (C) to exit the setting screen.
 - is displayed while the watch is in the Airplane Mode.

Connecting the Watch with a Phone

Connecting with a Phone

This section explains how to establish a Bluetooth connection with a phone that is paired with the watch.

- If the watch is not paired with the phone you want to connect with, perform the procedure under “③ Pair the watch with a phone.” to pair them.

1. Move the phone close to (within one meter of) the watch.
2. On the Home Screen, tap the “G-SHOCK Connected” icon.
3. Enter the Communication Mode.
[Navigating Between Modes](#)
 - [CONNECTED] appears on the watch display appears when a connection is established with the phone.
 - [CONNECT FAILED] will appear if connection fails for some reason.

Important!

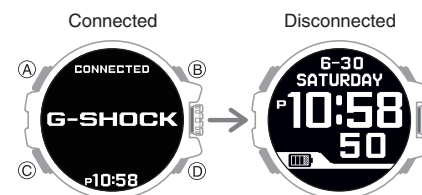
- If you have problems establishing a connection, it could mean that G-SHOCK Connected is not running on the phone. On the phone's home screen, tap the “G-SHOCK Connected” icon. After the app starts up, enter the Communication Mode on the watch.

Note

- The connection will be terminated if you do not perform any operation on the watch or phone for a fixed amount of time.
 To specify the connection limit time, perform the following operation with G-SHOCK Connected: “Watch settings” → “Connection time”. Next, select a setting of 3 minutes, 5 minutes, or 10 minutes.

Disconnecting from a Phone

Pressing any button will terminate a Bluetooth connection and return to the Timekeeping Mode.



Configuring Watch Settings

After establishing a connection between the watch and a phone, you can use G-SHOCK Connected to configure watch settings and to view information acquired by the watch.

1. Tap the “G-SHOCK Connected” icon.
2. Enter the Communication Mode.
[Navigating Between Modes](#)
 - [CONNECTED] appears on the watch display appears when a connection is established with the phone.
 - [CONNECT FAILED] will appear if connection fails for some reason.
3. Select the setting you want to change and then perform the operation shown on the phone screen.

Phone Finder

You can use phone finder to trigger a tone on the phone to make it easy to find. The tone is forced to sound even if the phone is in vibrate mode.

Important!

- Do not use this function in areas where phone call tones are restricted.
- The tone sounds at a high volume. Do not use this function when listening to phone output over earphones.

1. Enter the Timekeeping Mode.
[Navigating Between Modes](#)

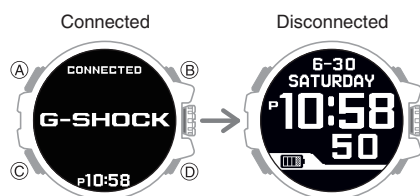


Rotary Switch

2. Press (D).
3. Rotate the rotary switch to move the pointer to [PHONE FINDER].
4. Press the rotary switch.
This will establish a connection between the watch and phone, and sound the phone's ringtone.
 - It will take a few seconds before the phone tone sounds.
5. Press any button besides (B) to stop the tone.
 - You can press any watch button to stop the phone tone only during the first 30 seconds after it starts to sound.

Unpairing

1. If the watch is connected with a phone, press any button to terminate the connection.



2. On the Home Screen, tap the "G-SHOCK Connected" icon.
3. Perform the operation shown on the phone screen to unpair.

After Purchasing Another Phone

You need to perform the pairing operation whenever you want to establish a Bluetooth connection with a phone for the first time.

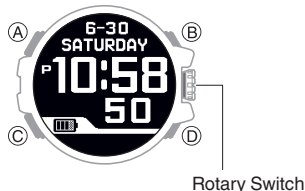
[Pair the watch with a phone.](#)

Adjusting the Time Setting

Your watch can receive GPS signals and connect with a phone to obtain information that it uses to adjust its date and time setting.

Getting ready

Enter the Timekeeping Mode.
 [Navigating Between Modes](#)



Important!

- Put the watch into the Airplane Mode whenever you are inside an aircraft or in any other area where radio wave reception is prohibited or restricted.
 [Using the Watch in a Medical Facility or Aircraft](#)

GPS Time Adjustment

Overview

The watch's time and day settings can be configured in accordance with your current time zone by receiving a GPS signal.

- GPS signal location information: Used to update time zone, time, and day settings.
- GPS signal time information: Used to update time and day settings.

Important!

- Before trying to receive GPS signal time information, first use GPS to acquire location information and configure the time zone setting.
- The watch will normally not perform auto GPS signal receive while it is paired with a phone. However, auto GPS signal receive will be performed if there is no connection between the watch and phone for more than one day.

Appropriate Signal Reception Location

GPS signal reception is possible outdoors where the sky is visible and not blocked by buildings, trees, or other objects.



Note

- In areas where reception is poor, keep the watch LCD pointed upwards and do not move the watch.
- When the watch is set up for auto receive, take care to avoid covering its LCD with the sleeve of your clothing.
- GPS signal reception is not possible in the areas described below.
 - Where the sky is not visible
 - Indoors (Reception may be possible near a window.)
 - Near wireless communication equipment or other devices that generate magnetism.
- You may experience GPS signal reception problems in the areas described below.
 - Where the view of the sky above is narrow
 - Near trees or buildings
 - Near a train station, airport, or other congested areas

Acquiring GPS Position Information Manually

You can use a button operation to acquire GPS location information and adjust your time zone, time, and day settings in accordance with your current location.

Note

- GPS signal reception requires large amounts of power. Perform it only when necessary.

1. Move to a location appropriate for signal reception and point the LCD of the watch straight up at the sky.
2. Press (D).



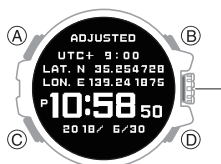
Rotary Switch

3. Rotate the rotary switch to move the pointer to [TIME&POSITION].

4. Press the rotary switch.

This starts location information acquisition.

- The acquired information will appear on the watch display when location acquisition is successful.



Rotary Switch

- [RECEIVING FAILED] will appear on the display if location information acquisition fails for some reason.

5. Press (C) to exit the setting screen.

Note

- Receive normally takes anywhere from about 40 to 80 seconds.
- It can take as long as 13 minutes when leap second information is included.
- You may experience location information acquisition problems when you are in the vicinity of a city borderline.
The watch's time and day will not be indicated correctly if the time zone setting is not right for your location. If this happens, move to a location near the center of the city you want to set as your Home City and acquire location information again. Or you can perform a time information receive operation to adjust time and day settings after configuring Home City and summer time settings manually.

🔗 [Acquiring GPS Time Information Manually](#)

🔗 [Configuring Home City and Summer Time Settings](#)

Acquiring GPS Time Information Manually

You can use a button operation on the watch to receive GPS signal time information. When the receive operation is successful, the watch's Home City (time zone), day, and time settings will be adjusted accordingly.

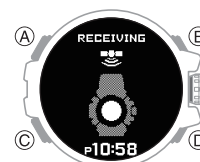
Note

- GPS signal reception requires large amounts of power. Perform it only when necessary.

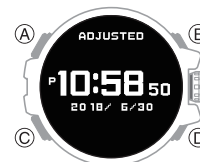
1. Move to a location appropriate for signal reception and point the LCD of the watch straight up at the sky.

2. Hold down (D) for about 1.5 seconds.

This starts time information acquisition.



- The acquired information will appear on the watch display when time acquisition is successful.



- [RECEIVING FAILED] will appear if acquisition fails for some reason.

3. Press (C) to exit the setting screen.

Note

- You can also trigger a time information receive operation manually by performing the steps below.

① Press (D).

② Rotate the rotary switch to move the pointer to [TIME (GPS)].

③ Press the rotary switch.

- Receive normally takes anywhere from about 10 to 65 seconds.

- It can take as long as 13 minutes when leap second information is included.

Receiving Time Information Automatically

When the conditions below are satisfied, the watch will automatically receive time information from a GPS signal. If any time information receive operation is successful, the watch will no longer attempt to receive a signal for the rest of the day.

- In the **Timekeeping Mode**
- Current time is between 6:00 a.m. and 10:00 p.m.
- Light (near a window on a clear day) continually shining on the LCD of the watch for about one to two minutes.

Note

- The time information receive operation normally takes anywhere from about 10 to 65 seconds.
- The receive operation can take as long as 13 minutes when leap second information is included.


Leap Second Reception

GPS signal reception each year on June 1 or later and on December 1 or later also receives leap second information.

Note

- It can take as long as 13 minutes to complete the leap second information receive operation.
- The leap second information receive operation is repeated until information receipt is complete.
- Once the leap second information receive operation is complete, the watch will not make any attempt to receive it again until the following June 1 or December 1.
- When connecting with a phone to adjust the watch date and time settings, leap seconds will also be received along with the time information. If this happens, leap seconds may not be received when receiving a GPS signal.

Signal Reception Precautions

- When the watch is unable to adjust its time in accordance with a GPS signal for some reason, average timekeeping accuracy is within ± 15 seconds per month.
- Note that an internal decoding process the watch performs after it receives a GPS signal may cause the time setting to be slightly off (by less than one second).
- GPS signal reception is not possible under the conditions described below.
 - While the battery indicator is  or lower
 - In any mode besides the Timekeeping Mode
 - During power saving
 - Sensor measurement operation in progress
 - Watch is connected with a phone
 - Navigation log data acquisition operation in progress
 - Timer countdown operation in progress
- If the receive operation is successful, the time and day settings will be adjusted automatically in accordance with the Home City (time zone) and summer time settings. Summer time will not be applied correctly in the cases described below.
 - When the summer time start date and time, end date and time, or other rules are changed by authorities
 - When location information is received, but it is not location information for your actual location (For example, when you are near a borderline of a city and the acquired location information is for a neighboring city, etc.)
- As of July 2017, China does not observe summer time. If China starts to observe summer time in the future, the time displayed by the watch for China may not be correct.

Using GPS Outside Your Country

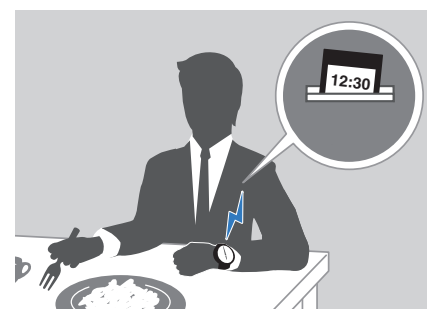
Some countries or geographic areas put legal restrictions on the use of GPS, on the collection and logging of location information, etc. Your watch has built-in GPS functionality, so before embarking on international travel to a country or area outside of the country where you purchased your watch, you should check with the embassy of the countries you plan to visit, your travel agency, or some other reliable source of information to find out if there are any prohibitions or restrictions on bringing in devices with GPS functionality, or on the logging of location information, etc.

Connecting with a Phone to Adjust the Watch's Time


You can configure watch settings to connect with a phone at preset times each day and adjust its time settings in accordance with information obtained from an online time server.

Using Auto Adjust

Your watch adjusts its time setting four times a day according to a preset schedule. It performs the adjustment operation automatically as you go about your daily life, without any operation required by you.



Important!

- The watch may not be able to perform auto time adjustment under the conditions described below.
 - During a timer countdown operation
 - While the battery indicator is  or lower
 - While the watch is too far away from its paired phone
 - While communication is not possible due to radio interference, etc.
 - While the phone is updating its system

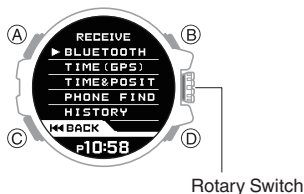
Note

- If there is a World Time City specified with G-SHOCK Connected, its time will also be synchronized automatically.
- The watch will connect with the phone and perform auto time adjustment at around 12:30 a.m., 6:30 a.m., 12:30 p.m. and 6:30 p.m. The connection is automatically terminated after auto time adjustment is complete.
- GPS signal auto receive will be performed if there has been no auto time adjustment based on connection between the watch and phone for more than one day.

● Triggering Immediate Time Adjustment

The watch will immediately synchronize its time setting automatically to that of a network time server whenever a connection is established between it and a phone. To trigger synchronization of the watch's time setting with a network time server manually, perform the procedure below.

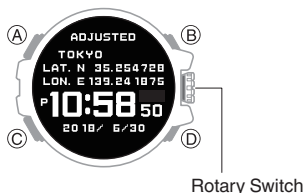
1. Press (D).



2. Rotate the rotary switch to move the pointer to [BLUETOOTH].

3. Press the rotary switch.

When a connection is established with the phone, the information acquired from the phone appears on the watch display.



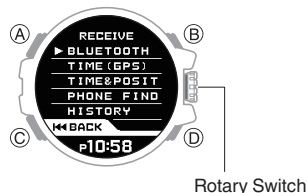
- [CONNECT FAILED] will appear if acquisition fails for some reason.

4. Press (C) to exit the setting screen.

Checking Time Adjustment History

You can use the procedure below to check the history of time adjustments based on GPS signal reception or connection with a phone.

1. Press (D).



2. Rotate the rotary switch to move the pointer to [HISTORY].

3. Press the rotary switch.

This displays a menu of time adjustment dates and times.

4. Rotate the rotary switch to move the pointer to the date and time of the details you want to check.

5. Press the rotary switch.

This displays information acquired by the watch.

6. Press (C) to exit the setting screen.

GPS Navigation

You can use the GPS Navigation Mode to receive GPS signals and record the routes you travel. You can also specify a destination and obtain navigation information to your destination point.

Getting ready

Enter the GPS Navigation Mode.

[Navigating Between Modes](#)



Important!


- Navigation displays general route guidance up to a destination. It does not display detailed route guidance like a car navigation system does.
- When using navigation, also be sure to navigate in accordance with actual local road and other conditions.
- The navigation function is not intended for use while in motion in an automobile or other type of vehicle.

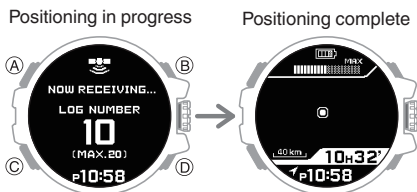
Note

- To set a destination that is not a waypoint in point memory, use G-SHOCK Connected.
- [Registering Your Current Location](#)
- Routes acquired with the GPS Navigation Mode can be transferred to a phone for viewing.
- GPS navigation can be used only when the battery indicator shows or higher.

Using Navigation

Starting Navigation

Holding down the rotary switch for about one second starts a GPS positioning operation. After startup of the positioning operation is complete,  and then the navigation screen will appear.



Important!

- Use navigation outdoors where the sky is visible and not blocked by buildings, trees, or other objects. For information about suitable locations for receipt of GPS signals, go to the section below.
 - 🔍 [Appropriate Signal Reception Location](#)
- Keep the watch LCD pointed upwards until startup of the positioning operation is complete and the navigation screen appears.

Note

- You can also perform the steps below to display the navigation screen.

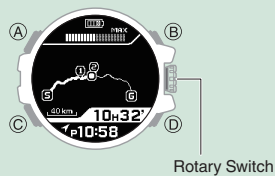
① Press the rotary switch.

This displays the GPS Navigation Mode setting screen.

② Rotate the rotary switch to move the pointer to [NAVIGATION].

③ Press the rotary switch.

This starts route recording and navigation.



- The message [DATA FULL] will appear when remaining memory capacity is low. Pressing the rotary switch will start navigation, and overwrite the oldest log in memory. If you want to delete a different log or if all logs are protected, press (C) to stop navigation and then delete the desired data.

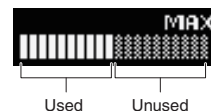
🔍 [Editing the Navigation Use History](#)

- If memory becomes full or if the allowable continuous measurement time is exceeded while a navigation operation is in progress, navigation will stop and the watch will return to the Timekeeping Mode.

● Interpreting GPS Navigation Information



① Memory usage




② Actual route

③ Scale

④ Log acquisition status

: Log information being acquired

: Log information not being acquired

⑤ Navigation indicators

●: Current location

Ⓢ: Start point

Ⓢ: Destination (Goal)*

① to ⑨: Waypoints*

⑥ Route to destination*

⑦ Elapsed time

* Displayed only when a destination and waypoints are specified.

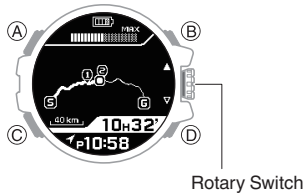
Note

- Waypoints and a route can be specified using G-SHOCK Connected only.
- You can estimate approximately how much longer navigation functions can be used based on memory usage and elapsed time.

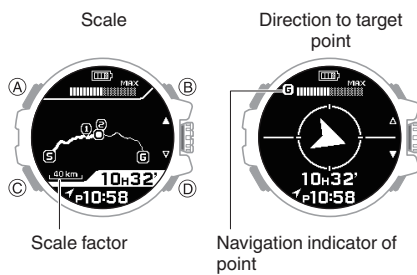
Changing the Display Scale

The scale of the navigation screen can be increased to show more details about a route, and to determine the direction to a target point from a start point or another point.

- While a navigation operation is in progress, press the rotary switch. This enables adjustment of the scale.

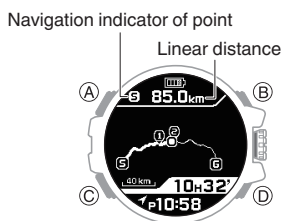


- Rotate the rotary switch to change the scale.
 - The scale changes each time you rotate the rotary switch. There are three scale levels. Rotating the rotary switch further displays the direction to a target point.



Checking the Distance to Your Destination

Each press of (A) cycles the display through the linear distance from your current location to preset points (start point, destination, etc.).

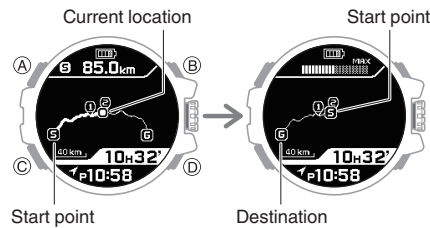


Note

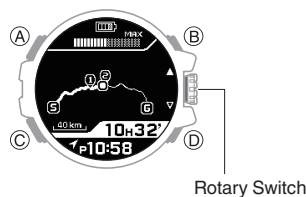
- The message [- - -km] will appear if the current linear distance to the destination is 1,000 km or greater.

Returning to a Start Point (Backtrack)

At any time during a navigation operation, you can reverse your route to navigate back to your start point.



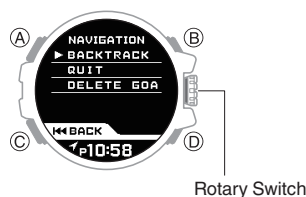
- While a navigation operation is in progress, press (D).



- Rotate the rotary switch to move the pointer to [BACKTRACK].
- Press the rotary switch. Pressing the rotary switch again or allowing 10 seconds to elapse after step 3 will change to navigation with your start point as your new destination.
 - To cancel the route reversal, press (C) within 10 seconds after pressing the rotary switch in step 3.

Stopping Navigation

- While a navigation operation is in progress, press (D).



- Rotate the rotary switch to move the pointer to [QUIT].
- Press the rotary switch. Pressing the rotary switch again or allowing 10 seconds to elapse after step 3 will quit navigation and return to the Timekeeping Mode.
 - To cancel the navigation quit operation, press (C) within 10 seconds after pressing the rotary switch in step 3.

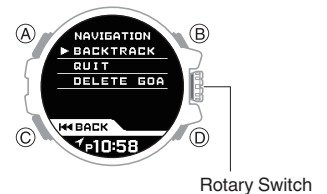
Deleting a Destination

Deleting the destination will stop route guidance, but continue route recording.

- For information about setting a destination, refer to the information below.

Setting a Registered Point as the Destination

- While a navigation operation is in progress, press (D).



- Rotate the rotary switch to move the pointer to [RESET GOAL].
- Press the rotary switch. This deletes the destination and returns to the navigation screen.

Note

- Backtrack cannot be used to clear a destination while a navigation operation is in progress.
- Returning to a Start Point (Backtrack)

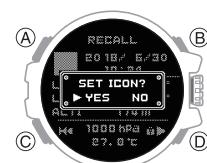
Registering Your Current Location

You can use the procedure below to record your current location in Point Memory. A point recorded in Point Memory can be specified as the destination for future navigation operations.

- Point Memory can store up to 60 points.

- While a navigation operation is in progress, hold down the rotary switch for about one second.

After you record your location, the display will momentarily shows its latitude and longitude, and other information. After a few seconds, the message [SET ICON?] will appear.



2. Rotate the rotary switch to select whether or not you want to assign an icon to the point you recorded.

[YES]: Assigns an icon.

[NO]: Cancels icon registration.

3. Press the rotary switch.

- If you select [NO] (no icon assigned) above, this completes the recording procedure and returns to the navigation screen.

4. Rotate the rotary switch to move the pointer to the icon you want.

- To cancel icon assignment, perform the steps below.

① Press (C).

② Rotate the rotary switch to select whether or not you want to save the current settings.

[YES]: Registers the currently selected icon.

[NO]: Cancels icon registration.

③ Press the rotary switch.

5. Press the rotary switch to exit the setting screen.

This assigns the icon you selected to the point you recorded.

Note

- In place of step 1 of the above procedure, you could perform the steps below to register your current location.

① While a navigation operation is in progress, press (C).

② Rotate the rotary switch to move the pointer to [POINT MEMORY].

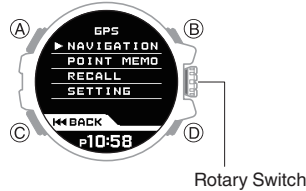
③ Press the rotary switch.

Viewing Registered Points

You can use the procedure below to display details about registered points. You can also change icons assigned to points and delete points as required.

1. Press the rotary switch.

This displays the GPS Navigation Mode setting screen.



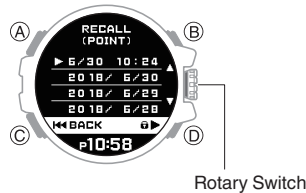
2. Rotate the rotary switch to move the pointer to [RECALL].

3. Press the rotary switch.

4. Rotate the rotary switch to move the pointer to [POINT].

5. Press the rotary switch.

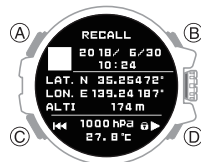
This displays a menu of dates and times that points were registered.



6. Rotate the rotary switch to move the pointer to the date and time of the point you want to check.

7. Press the rotary switch.

This displays details about the selected point.

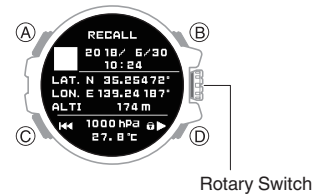


- Due to legal restrictions in certain countries and areas, the watch may not display latitude and longitude information.

[Using GPS Outside Your Country](#)

● To change the icon assigned to a registered point

1. While point details are displayed, press the rotary switch.



2. Rotate the rotary switch to move the pointer to the icon you want.

3. Press the rotary switch.

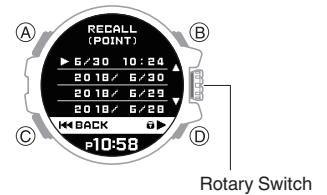
This changes to the icon you selected.

4. Press (C) as many times as necessary to return to the GPS Navigation Mode setting screen.

● To protect a registered point

A protected point cannot be deleted.


While the menu of locations is displayed



1. Rotate the rotary switch to move the pointer to the date and time of the point you want to protect.

2. Press (D).

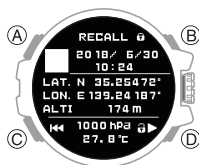
This protects the selected point.

A protected point is indicated by .

- Press (D) again to unprotect.

3. Press (C) as many times as necessary to return to the GPS Navigation Mode setting screen.

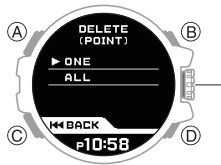
While the details of a particular point are displayed



- Press (D).
This protects the displayed point.
A protected point is indicated by .
• Press (D) again to unprotect.
- Press (C) as many times as necessary to return to the GPS Navigation Mode setting screen.

● To delete a registered point

- While the menu of registered points or the details of a particular registered point is displayed, press (A).



Rotary Switch

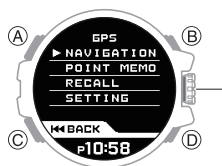
- Rotate the rotary switch to select a delete method.
[ONE]: Deletes only the currently selected point.
[ALL]: Deletes all points.
- Press the rotary switch.
This deletes the point(s).
• If you selected [ALL], press the rotary switch again to delete. Delete will also be executed automatically after about 10 seconds, even if you do not press the rotary switch again.
- Press (C) as many times as necessary to return to the GPS Navigation Mode setting screen.

Setting a Registered Point as the Destination

You can use the procedure below to specify a registered point as a destination for a navigation operation. If there is already a destination specified and route navigation is being performed, the operation below can be used to set a new destination and start a new route navigation operation.

- If a navigation operation is in progress, stop it.
[Stopping Navigation](#)

- Press the rotary switch.



Rotary Switch

- Rotate the rotary switch to move the pointer to [SETTING].
- Press the rotary switch.
- Rotate the rotary switch to move the pointer to [GOAL].
- Press the rotary switch.
- Rotate the rotary switch to move the pointer to [POINT RECALL].
- Press the rotary switch.
- Rotate the rotary switch to move the pointer to the point you want to specify as your destination.
• Selecting [RESET] deletes the currently specified destination.
- Press the rotary switch.
- Rotate the rotary switch to move the pointer to [YES].
- Press the rotary switch.
The message [SETTING COMPLETED] will appear after the destination is set. After a few seconds, the GPS Navigation Mode setting screen will re-appear.
- Rotate the rotary switch to move the pointer to [NAVIGATION].
- Press the rotary switch.
This starts navigation.

Note

- You can also use G-SHOCK Connected to specify a destination.

Editing the Navigation Use History

You can protect and delete navigation logs as required.

- If a navigation operation is in progress, stop it.
[Stopping Navigation](#)

- Press the rotary switch.

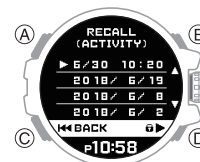
This displays the GPS Navigation Mode setting screen.



Rotary Switch

- Rotate the rotary switch to move the pointer to [RECALL].
- Press the rotary switch.
- Rotate the rotary switch to move the pointer to [ACTIVITY].
- Press the rotary switch.

This displays a list of dates and times that navigation was used.



● To protect a log

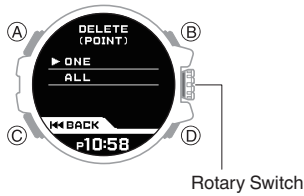
A recorded log that is protected cannot be deleted.



- Rotate the rotary switch to move the pointer to the log you want to protect.
- Press (D).
This protects the selected log.
A protected point is indicated by .
• Press (D) again to unprotect.
- Press (C) as many times as necessary to return to the GPS Navigation Mode setting screen.

● To delete a log

1. Press (A).



2. Rotate the rotary switch to select a delete method.

[ONE]: Delete only the currently selected log.

[ALL]: Delete all logs.

3. Press the rotary switch.

This deletes the log(s).

- If you selected [ALL], press the rotary switch again to delete. Delete will also be executed automatically after about 10 seconds, even if you do not press the rotary switch again.

4. Press (C) as many times as necessary to return to the GPS Navigation Mode setting screen.

Note

- Acquired log data can be transferred to a phone for more detailed viewing of routes traveled, etc.

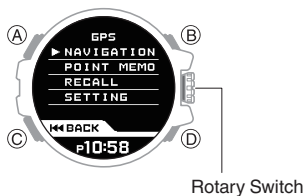
Setting the GPS Signal Receive Interval

Use the procedure below to specify the interval for GPS signal reception and position information acquisition during navigation.

1. If a navigation operation is in progress, stop it.

[Stopping Navigation](#)

2. Press the rotary switch.



3. Rotate the rotary switch to move the pointer to [SETTING].

4. Press the rotary switch.

5. Rotate the rotary switch to move the pointer to [INTERVAL].

6. Press the rotary switch.

7. Rotate the rotary switch to display the GPS receive interval you want to use.

[NORMAL]: Acquires location information every minute.

[HIGH RATE]: Acquires location information every few seconds.

8. Press the rotary switch.

9. Press (C) as many times as necessary to return to the GPS Navigation Mode setting screen.

Note

- The amount of time that navigation can be used depends on the receive interval setting. When you want to perform long-term continual navigation, select the [NORMAL] setting.

[NORMAL]: 24 hours, continuous

[HIGH RATE]: 4 to 5 hours, continuous

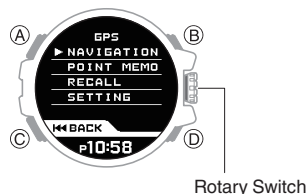
Specifying the Distance Unit

1. If a navigation operation is in progress, stop it.

[Stopping Navigation](#)

2. Press the rotary switch.

This displays the GPS Navigation Mode setting screen.



3. Rotate the rotary switch to move the pointer to [SETTING].

4. Press the rotary switch.

5. Rotate the rotary switch to move the pointer to [UNIT].

6. Press the rotary switch.

7. Rotate the rotary switch to select the distance unit.

[KILOMETER]: Kilometers

[MILE]: Miles

8. Press the rotary switch.

9. Press (C) to return to the GPS Navigation Mode setting screen.

Digital Compass

You can use the Digital Compass Mode to determine the direction of north, and to check your bearing to a destination.

Important!

- Check the information below to find out how to ensure correct readings.
 - [Calibrating Compass Readings](#)
 - [Digital Compass Reading Precautions](#)

Getting ready

Enter the Compass Mode.

[Navigating Between Modes](#)



- Entering the Compass Mode starts compass readings.

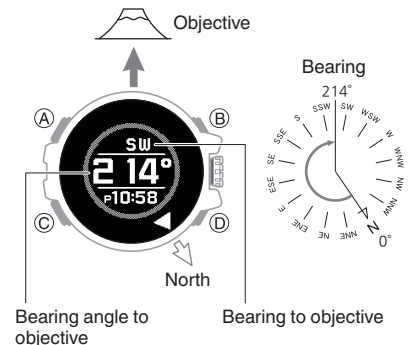
Taking a Compass Reading

Point 12 o'clock in the direction of your desired objective, and ▲ will indicate north. The bearing and bearing angle to your objective will also appear on the display.

- Even if the watch is not level when you take a reading, an auto level correction function will automatically compensate for the angle and display a result. Note, however, that if the watch is positioned so its display is nearly perpendicular to the ground, the angle display will go blank and the watch will not perform bearing measurement.

- To retrigger the compass operation, press (D).

Interpreting Bearing Readings



Bearing angle to objective

Bearing to objective

Directions: N (North), E (East), W (West), S (South)

Note

- Normally the Compass Mode indicates magnetic north. You can also configure settings to indicate true north.

🔗 [Setting Up for True North Readings \(Magnetic Declination Calibration\)](#)

🔗 [Magnetic North and True North](#)

- After the initial reading is displayed, the watch will continue to take readings about every second for about the next 60 seconds. The watch will return to the Timekeeping Mode automatically about 60 seconds after you start a direction reading operation.

- If an alarm or other beeper sounds, or if you turn on illumination by pressing (B) while a compass operation is in progress, the compass operation will be paused momentarily. The compass operation will resume when the beeper stops or illumination turns off.

● Aligning a Map with Actual Surroundings (Setting a Map)

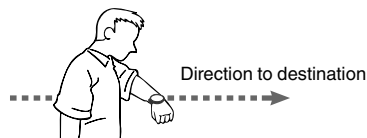
Setting a map means to align the map so the directions indicated on it are aligned with the actual directions of your location. Once you set a map, you can more easily get a grasp of the relationship between map markings and actual geographic contours. To set a map with this watch, align north on the map with the north indication of the watch. Once you set the map, you can compare your bearing on the map with your surroundings, which will help you determine your current location and destination.

- Note that map reading skills and experience are required to determine your current location and destination on a map.

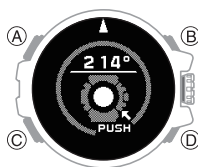
Saving a Bearing to a Destination (Bearing Memory)

You can use the procedure below to record the direction to a destination and then use the recorded direction as a bearing guide.

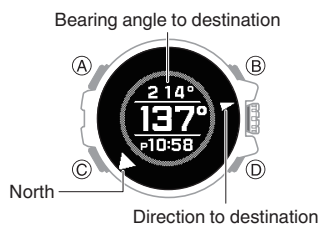
1. Keeping the watch level, point 12 o'clock in the direction of the target destination.



2. Hold down (A) for about one second. This displays the bearing angle and direction to the destination.



3. Press (D). This records the bearing to the destination.



Note

- In place of step 2 of the above procedure, you could perform the steps below to start bearing recording.

- ① Press (A) to display the Digital Compass Mode setting screen.
- ② Rotate the rotary switch to move the pointer to [BEARING MEMORY].
- ③ Press the rotary switch.
- ④ Rotate the rotary switch to move the pointer to [SET].
- ⑤ Press the rotary switch.

Clearing a Recorded Bearing

Hold down (A) for about one second to clear a recorded bearing.

Note

- You can also clear a recorded bearing by performing the steps below.

- ① Press (A).
- ② Rotate the rotary switch to move the pointer to [BEARING MEMORY].
- ③ Press the rotary switch.
- ④ Rotate the rotary switch to move the pointer to [RELEASE].
- ⑤ Press the rotary switch.

Calibrating Compass Readings

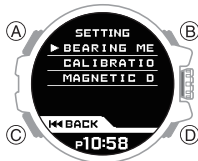
Perform calibration whenever you notice the watch's compass readings are different from those of another compass, or before setting out on a climb or trek.

- Note that accurate compass readings and/or calibration will not be possible in an area where strong magnetism is present.

Digital Compass Reading Precautions

1. Press (A).

This displays the Digital Compass Mode setting screen.



2. Rotate the rotary switch to move the pointer to [CALIBRATION].

3. Press the rotary switch.

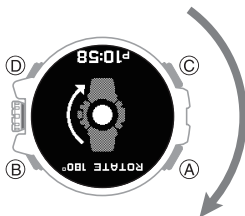


Rotary Switch

4. While keeping the watch horizontal, press (D).

This starts calibration of the first point, which causes [PLEASE WAIT] to appear on the display. [ROTATE 180°] will appear when calibration is successful.

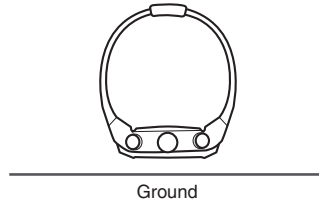
5. Keeping the LCD of the watch pointing upwards, rotate it 180 degrees. Be as exact as possible.



6. While keeping the watch horizontal, press (D).

This starts calibration of the second point, which causes [PLEASE WAIT] to appear on the display. [TURN OVER] will appear when calibration is successful.

7. Turn the watch over so the LCD is pointing at the ground.



8. While keeping the watch horizontal, press (D).

This starts calibration of the third point, which causes [PLEASE WAIT] to appear on the display. [SUCCESSFUL] will appear when calibration is successful. A few seconds later, the watch will return to the Digital Compass screen.

Note

- If calibration fails, the message [FAILED RETRY?] will appear. To retry calibration, press the rotary switch. Press (C) to stop calibration.

Setting Up for True North Readings (Magnetic Declination Calibration)

If you want the watch to indicate true north instead of magnetic north, you need to specify the current magnetic declination direction (east or west) and declination angle.

Magnetic North and True North

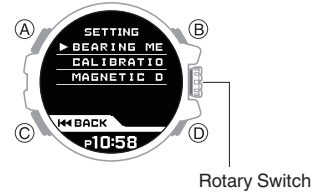
- The magnetic declination angle value can be set in 1° (degree) units only. Use a value that is closest to the angle you want to set.
Example: For an angle of 7.4°, set 7°.
Example: For an angle of 7°.4' (7 degrees, 40 minutes), set 8°.

Note

- Magnetic declination angles (east or west) and angle degree values for specific locations can be found on geographic maps, mountain climbing maps, and other maps that include contour lines.

1. Press (A).

This displays the Digital Compass Mode setting screen.



Rotary Switch

2. Rotate the rotary switch to move the pointer to [MAGNETIC DECLINATION].

3. Press the rotary switch.

4. Rotate the rotary switch to configure the magnetic declination direction and angle settings.

Setting range: 90° west to 90° east

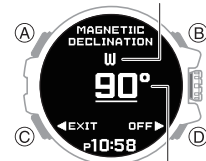
[0° (OFF)]: Magnetic north

[E]: East declination (Magnetic north is east of true north.)

[W]: West declination (Magnetic north is west of true north.)

- To return the setting to [0° (OFF)], press (D).

Magnetic declination direction



Magnetic declination angle

- To cancel the setting operation, perform the steps below.

- ① Press (C).

- ② Rotate the rotary switch to select whether or not you want to save the current settings.

[YES]: Current settings saved

[NO]: Current settings not saved

- Pressing (C) enables configuration of the magnetic declination direction and angle settings.

- ③ Press the rotary switch.

5. Press the rotary switch to exit the setting screen.

This returns to the Digital Compass Mode setting screen.

6. Press (C) to exit the setting screen.

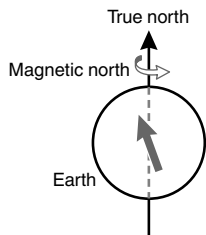
Magnetic North and True North

There are actually two types of north: magnetic north and true north.

Magnetic north: North indicated by the needle of a compass

True north: Direction to the North Pole

As shown in the illustration below, magnetic north and true north are not the same.



Note

- The north indicated on commercially available maps is normally true north.

Digital Compass Reading Precautions

Location During Use

Taking readings near sources of strong magnetism can cause reading error. Keep the watch away from the following types of items.

Permanent magnets (magnetic accessories, etc.), metal objects, high-voltage wires, aerial wires, electrical household appliances (TVs, computers, cellphones, etc.)

- Note that correct direction readings are not possible indoors, especially inside of reinforced concrete structures.
- Accurate direction readings are not possible in motor vehicles, on boats, on aircraft, etc.

Storage Location

Exposure of the watch to magnetism can affect the accuracy of digital compass readings. Keep the watch away from the types of items below.

Permanent magnets (magnetic accessories, etc.), metal objects, electrical household appliances (TVs, computers, cellphones, etc.)

Altitude Measurement

The watch takes altitude readings and displays results based on air pressure measurements taken by a built-in pressure sensor.

Important!

- The altitude readings displayed by the watch are relative values that are calculated based on barometric pressure measured by the watch's pressure sensor. This means that barometric pressure changes due to weather can cause altitude readings taken at the same location to be different. Also note that the value displayed by the watch may be different from the actual elevation and/or sea level elevation indicated for the area where you are located. When using the watch's altimeter while mountain climbing, it is recommended that you regularly calibrate its readings in accordance with local altitude (elevation) indications.

Calibrating Altitude Readings

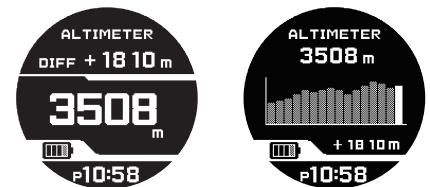
- When using navigation while receiving GPS signals, measured altimeter values are automatically adjusted in accordance with GPS signal data. Note, however, that this may result in some difference between the measured value and the actual altitude. Also note that the measured altitude value adjustment operation using GPS signal data may take a few minutes. The adjustment operation may take even longer, depending on your current environment. Regular manual adjustment of the measured altitude value using locally available information is recommended. The watch will not use GPS signal data to adjust measured altitude values for one hour after you adjustment the measured altitude value manually.
- The altitude correction value and barometric pressure changes may result in display of a negative value.
- Check the information below to find out about how to minimize differences between readings produced by the watch, and values provided by local altitude (elevation) indications.

Altitude Reading Precautions

Getting ready

Enter the Altimeter Mode.

- [Navigating Between Modes](#)
- [Specifying Display Contents](#)



- Entering the Altimeter Mode starts altitude readings.

Checking the Current Altitude

Starting an altitude measurement operation displays the altitude in your current location. The watch takes altitude readings every second for about the first three minutes. After that, it takes readings according to the watch's auto measurement interval setting.

- Check the information below to find out how to configure the auto measurement interval.
- [Setting the Auto Measurement Interval](#)

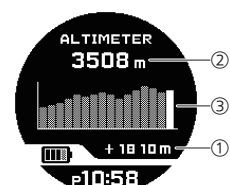
Note

- To retrigger measurement, hold down (A) for about one second.
- Measurement range: -10,000 m to 10,000 m (-32,800 to 32,800 feet) (Measurement unit: 1 meter (5 feet)) Note that calibrating altitude readings will cause a change in the measurement range.
- [- -] will appear for the measured value if it is outside the allowable range.

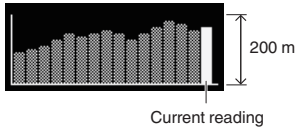
Value Screen



Graph Screen



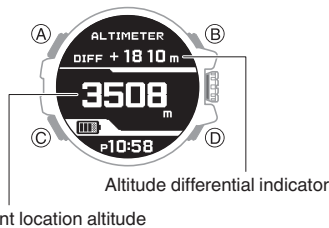
- ① Differential between reference altitude and current altitude
- ② Current location altitude
- ③ Altitude graph



Setting a Reference Altitude and Taking Relative Altitude Readings

You can use the procedure below to display the differential between a reference altitude and another altitude. This makes it easy to measure the altitude differential between two points while climbing or trekking.

1. Use the contour lines on your map to determine the altitude differential between your current location and your destination.
2. Take an altitude reading of your current location.
[☞ Checking the Current Altitude](#)
3. Hold down (A) for about one second to set your current location's altitude as the reference altitude.
 This makes the altitude differential ± 0 m (± 0 feet).
4. While comparing the difference between the altitude you found on the map and the altitude differential displayed by the watch, advance towards your destination.

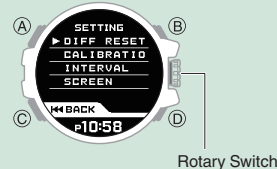


- When the altitude differential you found on the map is the same as that displayed by the watch, it means you are close to your destination.

Note

- In place of step 3 of the above procedure, you could perform the steps below to make the altitude differential ± 0 m (± 0 feet).

- ① Press (A).



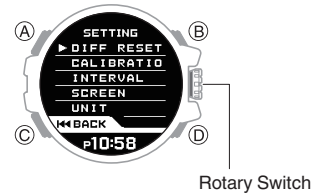
- ② Rotate the rotary switch to move the pointer to [DIFF RESET].
- ③ Press the rotary switch.
 This makes the altitude differential ± 0 m (± 0 feet).
- [----] will appear on the display when a reading is outside the allowable altitude measurement range ($\pm 3,000$ m ($\pm 9,840$ feet)), or if a measurement error occurs.

Calibrating Altitude Readings

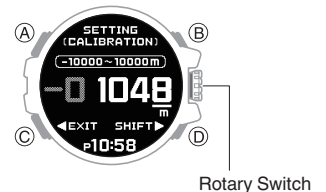
To minimize the difference between locally indicated and measured values, you should update the reference altitude value before setting off on and during treks or any other activities where you take altitude readings. You can find out the altitude at your current location from signs, maps, on the Internet, etc. While mountain climbing, it is highly recommended that you check a map, local altitude indications, or some other source for your current location's altitude and regularly calibrate watch readings with the latest information.

- Differences between actual altitude and watch readings can be caused by the factors below.
 - Changes in barometric pressure
 - Changes in temperature caused by variations in barometric pressure and by elevation
- Though altitude readings can be taken without calibration, doing so may produce readings that are very different from indications by altitude markers, etc.

1. Press (A).
 This displays the Altimeter Mode setting screen.



2. Rotate the rotary switch to move the pointer to [CALIBRATION].
3. Press the rotary switch.
4. Rotate the rotary switch to move the pointer to [MANUAL].
 - To return the altitude setting to its initial factory default value, select [OFFSET OFF].
5. Press the rotary switch.
6. Repeat the steps below to input the altitude in your current location.
 - Rotate the rotary switch to change the value or the sign where the underlining is located. To specify a negative value, display the minus (-) sign.
 - Press (D) to move the underlining to another value.



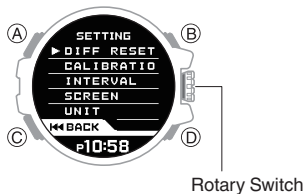
- To cancel the setting operation, perform the steps below.
 - ① Press (C).
 - ② Rotate the rotary switch to select whether or not you want to save the current settings.
 - [YES]: Current settings saved
 - [NO]: Current settings not saved
 - ③ Press the rotary switch.
- 7. Press the rotary switch to exit the setting screen.
 - This completes the calibration operation and returns to the Altimeter Mode setting screen.
- 8. Press (C) to exit the setting screen.

Setting the Auto Measurement Interval

You can select an auto measurement interval of either five seconds or two minutes.

1. Press (A).

This displays the Altimeter Mode setting screen.



2. Rotate the rotary switch to move the pointer to [INTERVAL].
3. Press the rotary switch.
4. Rotate the rotary switch to select the auto measurement interval you want to use.
 - [2 MINUTES]: Readings taken every second for the first three minutes, and then every two minutes for about 12 hours.
 - [5 SECONDS]: Readings taken every second for the first three minutes, and then every five seconds for about one hour.
5. Press the rotary switch to exit the setting screen.

This returns to the Altimeter Mode setting screen.
6. Press (C) to exit the setting screen.

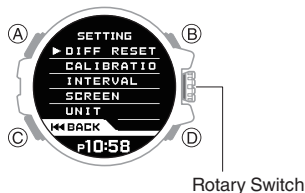
Note

- The watch will automatically return to the Timekeeping Mode if you do not perform any operation in the Altimeter Mode for about one hour while [5 SECONDS] is selected as the measurement interval or about 12 hours while [2 MINUTES] is selected.

Specifying Display Contents

You can use the procedure below to display an altitude graph in the Altimeter Mode.

1. Press (A).



2. Rotate the rotary switch to move the pointer to [SCREEN].
3. Press the rotary switch.
4. Rotate the rotary switch to select a display format.
 - [VALUE]: Displays the latest measurement value only.
 - [GRAPH]: Displays a measurement value and an altitude graph.
5. Press the rotary switch to exit the setting screen.

This returns to the Altimeter Mode setting screen.
6. Press (C) to exit the setting screen.

Specifying the Altitude Measurement Unit

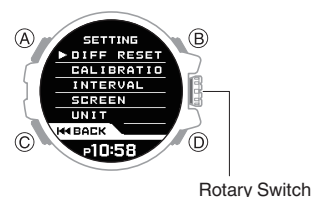
You can select either meters (m) or feet (ft) as the the Altimeter Mode display unit.

Important!

- When Tokyo (TOKYO) is the Home City, the altitude unit is fixed as meters (m) and cannot be changed.

1. Press (A).

This displays the Altimeter Mode setting screen.



2. Rotate the rotary switch to move the pointer to [UNIT].
3. Press the rotary switch.
4. Rotate the rotary switch to select the altitude unit.
 - [METER]: Meters
 - [FEET]: Feet
5. Press the rotary switch to exit the setting screen.

This returns to the Altimeter Mode setting screen.
6. Press (C) to exit the setting screen.

Altitude Reading Precautions

Effects of Temperature

When taking altitude readings, take the steps below to keep the watch at as stable a temperature as possible. Changes in temperature can affect altitude readings.

- Take readings with the watch on your wrist.
- Take readings in an area where temperature is stable.

Altitude Readings

- Do not use this watch while skydiving, hang gliding, paragliding, gyrocopter flying, glider flying, or engaged in other activities where altitude changes suddenly.
- Altitude readings produced by this watch are not intended for special-purpose or industrial level use.
- In an aircraft, the watch measures the in-cabin pressurized air pressure, so readings will not match altitudes announced by the crew.

Altitude Readings (Relative Altitude)

This watch uses International Standard Atmosphere (ISA) relative altitude data defined by the International Civil Aviation Organization (ICAO). Barometric pressure generally becomes lower as altitude increases.

Correct measurement may not be possible under the conditions below.

- During unstable atmospheric conditions
- During sudden temperature changes
- After the watch has been subjected to strong impact

Measured Altitude Value Adjustment Using GPS Signal Data

When using navigation while receiving GPS signals, measured altimeter values are automatically adjusted in accordance with GPS signal data. Note, however, that this may result in some difference between the measured value and the actual altitude. Also note that the measured altitude value adjustment operation using GPS signal data may take a few minutes. The adjustment operation may take even longer, depending on your current environment. Regular manual adjustment of the measured altitude value using locally available information is recommended. The watch will not use GPS signal data to adjust measured altitude values for one hour after you adjustment the measured altitude value manually.

Barometric Pressure and Temperature Measurement

You can use the watch to take barometric pressure and temperature readings for your current location.

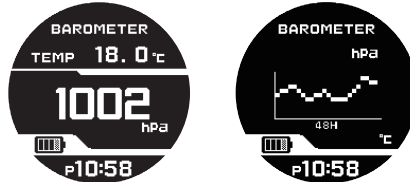
Important!

- Check the information below to find out how to ensure correct readings.
 - 🔗 [Barometric Pressure and Temperature Reading Precautions](#)

Getting ready

Enter the Barometer/Temperature Mode.

- 🔗 [Navigating Between Modes](#)
- 🔗 [Changing Displayed Information](#)

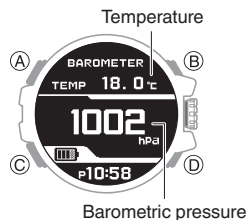


- Entering the Barometer/Temperature Mode starts measurement operations.

Checking the Current Barometric Pressure and Temperature

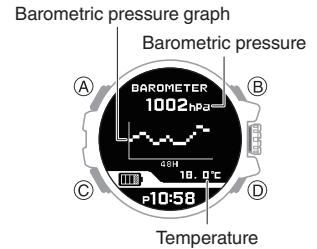
Entering the Barometer/Temperature Mode displays the current barometric pressure and temperature. After you enter the Barometer/Temperature Mode, the watch takes readings about every five seconds for three minutes. After that, a measurement is taken about every two minutes.

Value Screen



Barometric Pressure Graph Screen

The graph shows barometric readings taken every two hours. You can use the graph to view changes in barometric pressure over the past 48 hours, which can be used to predict upcoming weather.



A trend like this:	Indicates this:
	Rising barometric pressure, which indicates that upcoming weather probably will be fair.
	Falling barometric pressure, which indicates that upcoming weather probably will be bad.





Note

- To retrigger measurement, press (D).
- The watch will automatically return to the Timekeeping Mode if you do not perform any operation in the Barometer/Temperature Mode for about one hour.
- Measurement ranges are shown below. [- - -] will appear for the measured value if it is outside the allowable range.
 - Barometric pressure measurement: 260 hPa to 1,100 hPa (7.65 inHg to 32.45 inHg)
 - Thermometer measurement: -10.0°C to 60.0°C (14.0°F to 140.0°F)
- Large changes in barometric pressure and/or temperature can cause past data readings to be plotted outside of the visible area of the graph. Though plots are not visible, the data is still maintained in watch memory.

Barometric Pressure Change Indicator

Each time (A) is held down for about one second, the barometric pressure change indicator will toggle between enabled and disabled. While the barometric pressure change indicator is enabled, the watch will beep to alert you whenever it detects a significant change in air pressure readings (due to sudden altitude change, or to the passage of a high or low pressure area).

- While the barometric pressure change indicator is enabled, the [BARO] indicator is displayed along with one of the indicators below.

This indicator:	Means this:
	Sudden drop in pressure
	Sudden rise in pressure
	Sustained rise in pressure, shifting to a fall
	Sustained fall in pressure, shifting to a rise

Important!

- To ensure correct barometric pressure change indicator operation, enable it in a location where the altitude is constant (such as a lodge, camp area, or on the ocean).
- A change in altitude causes a change in air pressure. Because of this, correct readings are impossible. Do not take readings while ascending or descending a mountain, etc.


Note


- You can also enable the barometric pressure change indicator by performing the steps below.
 - ① Press (A).
 - ② Rotate the rotary switch to move the pointer to [BARO INFORMATION].
 - ③ Press the rotary switch.
 - ④ Rotate the rotary switch to select the barometric pressure change indicator setting you want.

[ENABLE]: Barometric pressure change indicator enabled

[DISABLE]: Barometric pressure change indicator disabled

- ⑤ Press the rotary switch.

- If the barometric change indicator is enabled, readings are taken every two minutes even while the watch is not in the Barometer/Temperature Mode.
- The barometric pressure change indicator becomes disabled automatically 24 hours after it is enabled.
- Time adjustment using GPS signal reception or phone connection is disabled while the barometric pressure change indicator is enabled. Power saving is also disabled.
- The barometric pressure change indicator will become disabled automatically when the battery becomes  or lower.

 [Power Saving Function](#)

Calibrating Barometric Pressure Readings

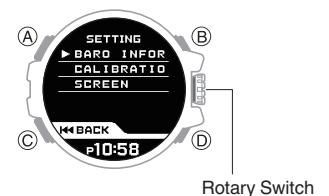
The watch's pressure sensor is adjusted at the factory and normally does not require calibration. However, you can calibrate the displayed value if you notice major errors in readings.

Important!

- The watch will not be able to produce correct barometric pressure readings if you make a mistake during the calibration procedure. Check to make sure that the value you use for calibration produces correct pressure readings.

1. Press (A).

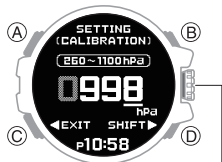
This displays the Barometer/ Temperature Mode setting screen.



2. Rotate the rotary switch to move the pointer to [CALIBRATION].
3. Press the rotary switch.
4. Rotate the rotary switch to move the pointer to [BAROMETER].
5. Press the rotary switch.
6. Rotate the rotary switch to move the pointer to [MANUAL].
 - Selecting [OFFSET OFF] returns barometric pressure calibration to its factory default state.
7. Press the rotary switch.

8. Repeat the steps below to change the value.

- Rotate the rotary switch to change the underlined value.
- Use (D) to move the underlining to the value you want to change.



Rotary Switch

- To cancel the setting operation, perform the steps below.

- 1 Press (C).
- 2 Rotate the rotary switch to select whether or not you want to save the current settings.

[YES]: Current settings saved

[NO]: Current settings not saved

- 3 Press the rotary switch.

9. Press the rotary switch to exit the setting screen.

This completes the calibration operation and returns to the Barometer/ Temperature Mode setting screen.

10. Press (C) to exit the setting screen.

Calibrating Temperature Readings

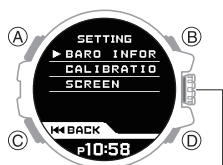
The watch's temperature sensor is adjusted at the factory and normally does not require calibration. However, you can calibrate the displayed value if you notice major errors in readings.

Important!

- Check to make sure that the value you use for calibration produces correct temperature readings.
- Before calibrating the temperature reading, remove the watch from your wrist and leave it in the area where you plan to measure temperature for about 20 or 30 minutes to allow the case temperature to become the same as the air temperature.

1. Press (A).

This displays the Barometer/ Temperature Mode setting screen.



Rotary Switch

2. Rotate the rotary switch to move the pointer to [CALIBRATION].

3. Press the rotary switch.

4. Rotate the rotary switch to move the pointer to [THERMOMETER].

5. Press the rotary switch.

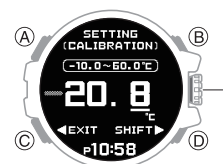
6. Rotate the rotary switch to move the pointer to [MANUAL].

- Selecting [OFFSET OFF] returns barometric pressure calibration to its factory default state.

7. Press the rotary switch.

8. Repeat the steps below to change the value.

- Rotate the rotary switch to change the value or the sign where the underlining is located. To specify a sub-zero value, display the minus (-) sign.
- Use (D) to move the underlining to the value you want to change.



Rotary Switch

- To cancel the setting operation, perform the steps below.

- 1 Press (C).
- 2 Rotate the rotary switch to select whether or not you want to save the current settings.

[YES]: Current settings saved

[NO]: Current settings not saved

- 3 Press the rotary switch.

9. Press the rotary switch to exit the setting screen.

This completes the calibration operation and returns to the Barometer/ Temperature Mode setting screen.

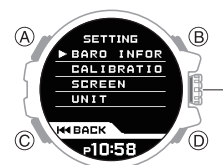
10. Press (C) to exit the setting screen.

Changing Displayed Information

You can use the procedure below to display a barometric pressure graph in the Barometer/ Temperature Mode.

1. Press (A).

This displays the Barometer/ Temperature Mode setting screen.



Rotary Switch

2. Rotate the rotary switch to move the pointer to [SCREEN].

3. Press the rotary switch.

- Rotate the rotary switch to select a display format.

[VALUE]: Displays the latest measurement value only.

[GRAPH]: Displays a measurement value and a barometric pressure graph

- Press the rotary switch to exit the setting screen.

This returns to the Barometer/
Temperature Mode setting screen.

- Press (C) to exit the setting screen.

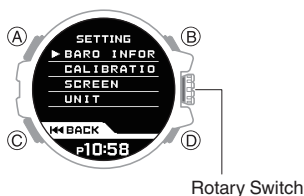
Specifying the Barometric Pressure Unit

You can specify either hectopascals (hPa) or inches of mercury (inHg) as the display unit for barometric pressure values.

Important!

- When Tokyo (TOKYO) is set as the Home City, the barometric pressure unit is fixed as hectopascals (hPa) and cannot be changed.

- Press (A).



- Rotate the rotary switch to move the pointer to [UNIT].
- Press the rotary switch.
- Rotate the rotary switch to move the pointer to [BAROMETER].
- Press the rotary switch.
- Rotate the rotary switch to select the barometric pressure unit.
[hPA]: Hectopascals
[inHg]: Inches of mercury
- Press the rotary switch to exit the setting screen.
This returns to the Barometer/
Temperature Mode setting screen.
- Press (C) as many times as necessary to exit the setting screen.

Specifying the Temperature Unit

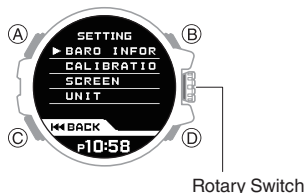
You can select either Celsius (°C) or Fahrenheit (°F) as the temperature display unit.

Important!

- When Tokyo (TOKYO) is set as the Home City, the temperature unit is fixed as Celsius (°C) and cannot be changed.

- Press (A).

This displays the Barometer/
Temperature Mode setting screen.



- Rotate the rotary switch to move the pointer to [UNIT].
- Press the rotary switch.
- Rotate the rotary switch to move the pointer to [THERMOMETER].
- Press the rotary switch.
- Rotate the rotary switch to select the temperature unit.
[°C]: Celsius
[°F]: Fahrenheit
- Press the rotary switch to exit the setting screen.
This returns to the Barometer/
Temperature Mode setting screen.
- Press (C) as many times as necessary to exit the setting screen.

Barometric Pressure and Temperature Reading Precautions

● Barometric Pressure Reading Precautions

- The barometric pressure graph produced by this watch can be used to obtain an idea of upcoming weather conditions. However, this watch should not be used in place of precision instruments required for official weather prediction and reporting.
- Pressure sensor readings can be affected by sudden changes in temperature. Because of this, there may be some error in the readings produced by the watch.

● Temperature Reading Precautions

Body temperature, direct sunlight, and humidity all have an effect on temperature readings. To help ensure more accurate temperature readings, remove the watch from your wrist, wipe it dry of any moisture, and place it in a well-ventilated location not exposed to direct sunlight. You should be able to take temperature readings after about 20 to 30 minutes.

Sunrise and Sunset Times

You can use the watch to check sunrise and sunset times for your Home City.

Getting ready

Enter the Sunrise/Sunset Mode.

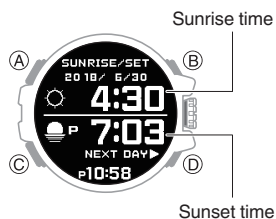
[Navigating Between Modes](#)



Looking Up Today's Sunrise and Sunset Times

Entering the Sunrise/Sunset Mode displays today's sunrise and sunset times for your Home City.

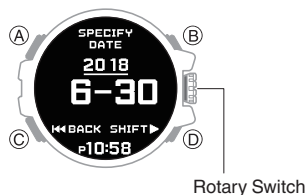
- Pressing (D) displays the next day's sunrise and sunset times.



Looking Up Sunrise and Sunset Times by Specifying a Day

- Hold down (D) for about one second.

This causes the year to become underlined.



- Rotate the rotary switch to change the year setting.
- Press (D). This moves the underlining to the month.
- Rotate the rotary switch to change the month setting.
- Press (D). This moves the underlining to the day.
- Rotate the rotary switch to change the day setting.
- Press the rotary switch. This displays the sunrise and sunset times for the day you specified.

Tide Level and Moon Age

You can also specify a city with G-SHOCK Connected and then use the watch to display the tide level and Moon age there.

Important!

- Displayed information is intended for reference only. Do not use it for maritime navigation, etc.
- When looking up a tide level or Moon age, use G-SHOCK Connected to select the city whose information you want to look up. Entering the Tide/Moon Mode while there is no city selected will cause the message [SET IN THE APP] to appear. This function cannot be used until a city is selected.

Getting ready

Enter the Tide/Moon Mode.

[Navigating Between Modes](#)



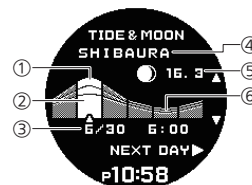
Note

- The tide level and Moon age display is based on the summer time setting of the city that is set when you enter the Tide/Moon Mode.

Checking the Current Tide Level and Moon Age

Entering the Tide/Moon Mode, displays the tide and Moon age at 6:00 a.m. in the city that you specified with G-SHOCK Connected.

- Rotating the rotary switch scrolls through displayed tide information at one-hour intervals.
- Pressing (D) displays information for the next day.



- High tide
- Tide at the specified date and time
- Specified date and time
- City name
- Moon age on the specified date
- Low tide

Tide Cycle (Three Patterns)

Spring tide	Half tide	Neap tide
Large difference between high tide and low tide	Moderate difference between high tide and low tide	Small difference between high tide and low tide

Checking the Tide Level and Moon Age for a Specific Day

You can specify a day to look up the tide level and Moon age on that day.

1. Hold down (D) for about one second.

This causes the year to become underlined.



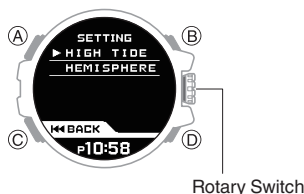
2. Rotate the rotary switch to change the year setting.
3. Press (D).
This moves the underlining to the month.
4. Rotate the rotary switch to change the month setting.
5. Press (D).
This moves the underlining to the day.
6. Rotate the rotary switch to change the day setting.
7. Press the rotary switch.
This displays tide and Moon age information at 6:00 a.m. on the specified day.
 - Rotating the rotary switch scrolls through displayed tide information for the specified day at one-hour intervals.

Adjusting High Tide Times

You can improve the accuracy of the displayed high tide by adjusting the high tide time in accordance with information available on the internet or in a newspaper.

1. Press (A).

This displays the Tide/Moon Mode setting screen.



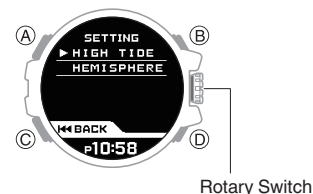
2. Rotate the rotary switch to move the pointer to [HIGH TIDE].
3. Press the rotary switch.
4. Rotate the rotary switch to change today's high tide time hour setting.
 - To cancel the setting operation, perform the steps below.
 - ① Press (C).
 - ② Rotate the rotary switch to select whether or not you want to save the current settings.
[YES]: Current settings saved
[NO]: Current settings not saved
 - ③ Press the rotary switch.
5. Press (D).
6. Rotate the rotary switch to change today's high tide time minute setting.
7. Press the rotary switch.
8. Press the rotary switch to exit the setting screen.
This returns to the Tide/Moon Mode setting screen.
9. Press (C) to exit the setting screen.

Specifying Your Hemisphere

How the face of the Moon appears (bright part to the left or right) depends on whether you are viewing it from Northern Hemisphere or Southern Hemisphere. You can specify your hemisphere so the watch displays Moon phases as they actually appear in your location.

1. Press (A).

This displays the Tide/Moon Mode setting screen.



2. Rotate the rotary switch to move the pointer to [HEMISPHERE].
3. Press the rotary switch.
4. Rotate the rotary switch to select a hemisphere.
[NORTHERN]: Northern Hemisphere
[SOUTHERN]: Southern Hemisphere
5. Press the rotary switch to exit the setting screen.
This returns to the Tide/Moon Mode setting screen.
6. Press (C) to exit the setting screen.

Stopwatch

The stopwatch can be used to perform 1-second elapsed time measurement up to 999 hours, 59 minutes, 59 seconds.

It can also measure split times.

Getting ready

Enter the Stopwatch Mode.

[Navigating Between Modes](#)



Note

- Elapsed time returns to zero automatically and timing continues from there when the maximum limit is reached.
- Once started, elapsed time measurement continues until you press (A) to reset the stopwatch, even if you change to a different mode and even if the stopwatch reaches the elapsed time measurement limit.
- Exiting the Stopwatch Mode while a split time is frozen on the display clears the split time and returns to elapsed time measurement.

Measuring Elapsed Time

Use the operations below to measure elapsed time.

- Ⓧ Start
- ↓
- Ⓧ Stop
- ↓
- Ⓧ Resume
- ↓
- Ⓧ Stop



- To reset the stopwatch to all zeros, press (A).

Measuring a Split Time

Use the operations below to measure elapsed time.

- Ⓧ Start
- ↓
- Ⓧ Split
- ↓
- Ⓧ Split release
- ↓
- Ⓧ Stop



- To reset the stopwatch to all zeros, press (A).

Timer

The timer counts down from a start time specified by you. A beeper sounds when the end of the countdown is reached.

- The countdown start time can be set in 1-minute units up to 24 hours.
- The beeper is muted in the cases described below.
 - While the battery indicator is or lower

Getting Ready

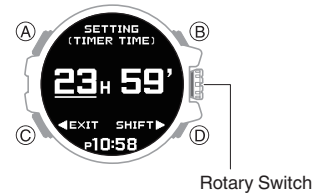
Enter the Timer Mode.

[Navigating Between Modes](#)



Setting a Start Time

1. Hold down (A) for about two seconds, or press (A) and then press the rotary switch. This causes the hours to become underlined.



2. Rotate the rotary switch to change the hours setting.
 - To cancel the setting operation, perform the steps below.
 - ① Press (C).
 - ② Rotate the rotary switch to select whether or not you want to save the current settings.

[YES]: Current settings saved

[NO]: Current settings not saved
 - ③ Press the rotary switch.
3. Press (D). This moves the underlining to the minutes.
4. Rotate the rotary switch to change the minutes setting.
5. Press the rotary switch to exit the setting screen. This returns to the Timer Mode setting screen.
6. Press (C) to exit the setting screen.

Using the Timer

1. Press (D) to start the countdown.



A beeper will sound for 10 seconds to let you know when the end of a countdown is reached.

- To pause an ongoing countdown, press (D). To reset a paused countdown to the start time, press (A).

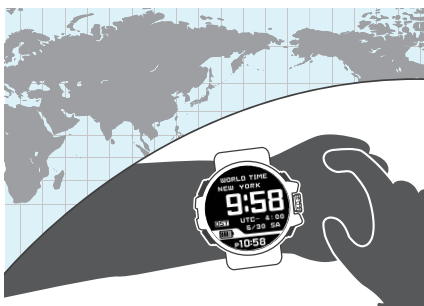
2. Press any button to stop the tone.

Note

- The time up beeper sound may be distorted if a navigation operation is in progress.

World Time

World Time lets you look up the current time in any one of 39 cities around the globe, and UTC (Universal Coordinated Time).



Getting Ready

Enter the World Time Mode.

[Navigating Between Modes](#)



Note

- You can also use G-SHOCK Connected to configure World Time City and summer time settings.

World Time City Setting

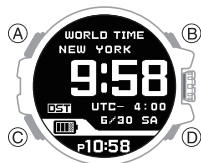
Use the procedure in this section to select a World Time city.

1. Hold down (A) for about two seconds.
This displays a menu of World Time Cities.



Rotary Switch

2. Rotate the rotary switch to move the pointer to the city you want.
3. Press the rotary switch to exit the setting screen.
This returns to the World Time Mode setting screen.
4. Press (C) to exit the setting screen.
This will display the current time and date in the selected city.



Note

- In place of step 1 of the above procedure, you could perform the steps below to display the World Time City menu.
 - ① Press (A) to display the World Time Mode setting screen.
 - ② Rotate the rotary switch to move the pointer to [WORLD TIME].
 - ③ Press the rotary switch.

Configuring the Summer Time Setting

1. Press (A).
This displays the World Time Mode setting screen.



Rotary Switch

2. Rotate the rotary switch to move the pointer to [DST].
3. Press the rotary switch.
4. Rotate the rotary switch to select a summer time setting.
[AT (AUTO)]: Automatic switching between standard time and summer time.
[STD]: Always standard time.
[DST]: Always summer time.
5. Press the rotary switch to exit the setting screen.
This returns to the World Time Mode setting screen.
6. Press (C) to exit the setting screen.

Note

- The initial factory default summer time setting for all cities is [AT (AUTO)]. In many cases, the [AT (AUTO)] setting lets you use the watch without switching between summer time and standard time.
- While [UTC] is selected as the city, you will not be able to change or check the summer time setting.

Display Illumination

You can illuminate the display by pressing a button. The watch also has an auto light function that automatically illuminates the display whenever the watch is angled towards your face for reading.

Note

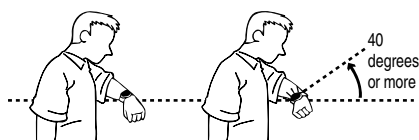
- Illumination will turn off automatically if an alarm starts to sound.
- Illumination is disabled during a GPS signal receive operation for time adjustment. Display illumination is also disabled while measurement by a sensor is in progress.

Illuminating the Display Manually

Pressing (B) in any mode turns on illumination.

Auto Light

If Auto Light is enabled, face illumination will turn on automatically whenever the watch is positioned at an angle of 40 degrees or more.



Important!

- Auto Light may not operate properly when the watch is at a horizontal angle of 15 degrees or greater from horizontal as shown in the illustration below.



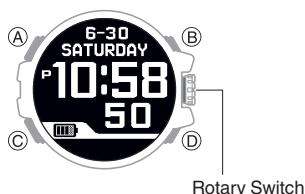
- Electro-static charge or magnetism can interfere with proper auto light operation. If this happens, try lowering your arm and then angle it towards your face again.
- When moving the watch you may note a slight rattling sound. This is due to operation of the auto light switch, which determines the current orientation of the watch. It does not indicate malfunction.

Note

- Auto Light is disabled when any one of the conditions below exists.
 - Alarm, timer alert, or other beeper sounding
 - While a GPS signal is being received for time adjustment
- If Auto Light is enabled, face illumination may be delayed if you angle the watch towards your face while a compass, altitude, barometric pressure, or temperature reading operation is being performed.

Configuring the Auto Light Setting

1. Enter the Timekeeping Mode.
[Navigating Between Modes](#)

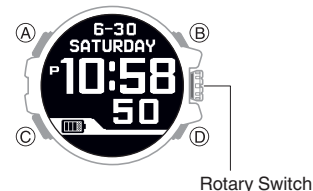


2. Press (A).
This displays the Timekeeping Mode setting screen.
3. Rotate the rotary switch to move the pointer to [LIGHT].
4. Press the rotary switch.
5. Rotate the rotary switch to move the pointer to [AUTO LIGHT].
6. Press the rotary switch.
7. Rotate the rotary switch to move the pointer to [ON] (enabled) or [OFF] (disabled).
 - [LT] is displayed on the Timekeeping Mode BASIC screen while Auto Light is enabled.
8. Press the rotary switch to exit the setting screen.
This returns to the Timekeeping Mode setting screen.
9. Press (C) as many times as necessary to exit the setting screen.

Specifying the Illumination Duration

You can select either 1.5 seconds or three seconds as the illumination duration.

1. Enter the Timekeeping Mode.
[Navigating Between Modes](#)



2. Press (A).
This displays the Timekeeping Mode setting screen.
3. Rotate the rotary switch to move the pointer to [LIGHT].
4. Press the rotary switch.
5. Rotate the rotary switch to move the pointer to [DURATION].
6. Press the rotary switch.
7. Rotate the rotary switch to display the light duration you want to use.
 [1.5 SEC.]: 1.5-second illumination
 [3.0 SEC.]: 3-second illumination
8. Press the rotary switch to exit the setting screen.
This returns to the Timekeeping Mode setting screen.
9. Press (C) as many times as necessary to exit the setting screen.

Other Settings

Getting ready

Enter the Timekeeping Mode.

🔍 Navigating Between Modes



Configuring Home City and Summer Time Settings

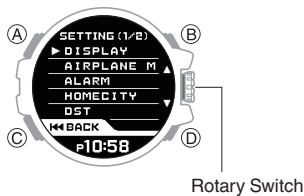
If you move to another time zone, you can have the watch indicate the current time there by simply changing the Home City and summer time settings.

● Setting a Home Time City

Use the procedure in this section to select a city to use as your Home City.

1. Press (A).

This displays the Timekeeping Mode setting screen.



2. Rotate the rotary switch to move the pointer to [HOME CITY].
3. Press the rotary switch.
4. Rotate the rotary switch to move the pointer to the city you want to use as your Home City.
5. Press the rotary switch to exit the setting screen.
This returns to the Timekeeping Mode setting screen.
6. Press (C) to exit the setting screen.

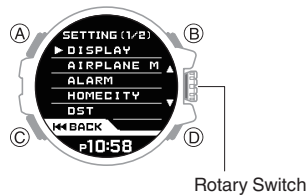
● Configuring the Summer Time Setting

If you are in an area that observes summer time, you can also enable or disable summer time.

Note

- The initial factory default summer time setting for all cities is “AT (AUTO)”. In many cases, the “AT (AUTO)” setting lets you use the watch without switching between summer time and standard time.
- In the cases described below, receiving GPS position information will automatically cause “AT (AUTO)” to be selected for the summer time setting.
 - When the time zone of the current receive operation is different from the watch’s time zone setting prior to the receive operation.
 - When the time zone is unchanged, but the acquired position information is for a geographic area with different summer time rules (start date, end date)

1. Press (A).



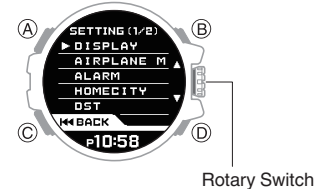
2. Rotate the rotary switch to move the pointer to [DST].
3. Press the rotary switch.
This displays the Timekeeping Mode setting screen.
4. Rotate the rotary switch to select a summer time setting.
 - [AUTO]: The watch switches between standard time and summer time automatically.
 - [STD]: The watch always indicates standard time.
 - [DST]: The watch always indicates summer time.
5. Press the rotary switch to exit the setting screen.
This returns to the Timekeeping Mode setting screen.
6. Press (C) to exit the setting screen.

Manual Time Adjustment

You can use the procedure below to adjust the watch’s time and day settings when GPS signal reception or communication with a phone is not possible for some reason.

1. Press (A).

This displays the Timekeeping Mode setting screen.



2. Rotate the rotary switch to move the pointer to [TIME&DATE].
3. Press the rotary switch.
4. Use the operations below to configure the time and date settings.
 - Rotate the rotary switch to change the underlined value.
 - Use (D) to move the underlining between values. Each press of (D) moves the underlining in the following sequence: hour → minute → year → month → day.

Note

- The seconds start normal timekeeping from 00 when you press the rotary switch in step 5, below. If you want the seconds count to be more exact, adjustment using GPS signal reception or connection with a phone is recommended.

5. Press the rotary switch to exit the setting screen.
6. Press (C) to exit the setting screen.

Changing the Timekeeping Mode Display Configuration

Changing Displayed Information

You can configure watch settings to have the current time in the Timekeeping Mode displayed along with one other type of information.

BASIC: Current Time Only (Basic Screen)



TIME+NAVIGATION: Current Time + Navigation



TIME+BAROMETER: Current Time + Barometric Pressure

While this screen is selected, entering the Timekeeping Mode will cause the current barometric pressure value and a graph of the last 12 hours of barometric pressure readings to be shown at the top of the display for one hour. After one hour, only a graph of the last 48 hours of barometric pressure readings (without the current value) will be shown.

First 12 hours

After 12 hours



TIME+SUNRISE: Current Time + Sunrise/Sunset Times



TIME+WORLD TIME: Current Time + World Time

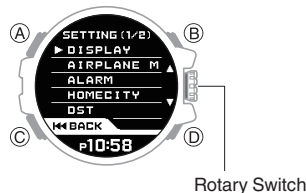


Note

- The watch automatically returns to the BASIC screen whenever the battery indicator is or lower.

1. Press (A).

This displays the Timekeeping Mode setting screen.



2. Rotate the rotary switch to move the pointer to [DISPLAY].

3. Press the rotary switch.

4. Rotate the rotary switch to move the pointer to [SCREEN].

5. Press the rotary switch.

6. Rotate the rotary switch to move the pointer to the setting you want.

7. Press the rotary switch to exit the setting screen.

This returns to the Timekeeping Mode setting screen.

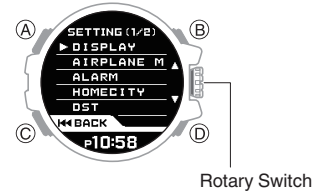
8. Press (C) to exit the setting screen.

Switching between 12-hour and 24-hour Timekeeping

You can specify either 12-hour format or 24-hour format for the time display.

1. Press (A).

This displays the Timekeeping Mode setting screen.



2. Rotate the rotary switch to move the pointer to [DISPLAY].

3. Press the rotary switch.

4. Rotate the rotary switch to move the pointer to [12/24H].

5. Press the rotary switch.

6. Rotate the rotary switch to select [12H] (12-hour timekeeping) or [24H] (24-hour timekeeping).

7. Press the rotary switch to exit the setting screen.

This returns to the Timekeeping Mode setting screen.

8. Press (C) to exit the setting screen.

- While 12-hour timekeeping is selected, [P] will be displayed for p.m. times.

Using Alarms

The watch will beep when the alarm time is reached. You can set up to four different alarms.

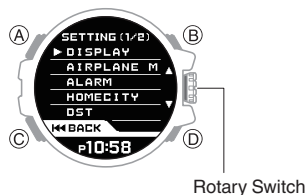
- When snooze is enabled for an alarm, it will sound every five minutes up to seven times.
- The beeper is muted in the cases described below.
 - While the battery indicator is or lower
 - When watch is at Level 2 power saving

[Power Saving Function](#)

● To configure alarm settings

1. Press (A).

This displays the Timekeeping Mode setting screen.



Rotary Switch

2. Rotate the rotary switch to move the pointer to [ALARM].
3. Press the rotary switch.
4. Rotate the rotary switch to move the pointer to the alarm whose setting you want to change.
5. Press the rotary switch.
6. Rotate the rotary switch to change the hour setting.
 - To cancel an alarm time setting, perform the steps below.
 - ① Press (C).
 - ② Rotate the rotary switch to select whether or not you want to save the current settings.

[YES]: Current settings saved

[NO]: Current settings not saved.
 - ③ Press the rotary switch.
7. Press (D).
8. Rotate the rotary switch to change the minute setting.
9. Press (D).
10. Rotate the rotary switch to turn snooze on or off.
11. Press the rotary switch.

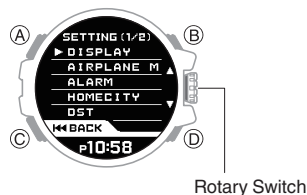
This turns on the alarm whose time setting you configured.

 - Turning on an alarm causes **▶▶▶** to appear on the display to the right of the time setting. If snooze is turned on, [SNZ] also appears.
12. Press (C) as many times as necessary to exit the setting screen.

● To turn an alarm on or off

1. Press (A).

This displays the Timekeeping Mode setting screen.



Rotary Switch

2. Rotate the rotary switch to move the pointer to [ALARM].
3. Press the rotary switch.
4. Rotate the rotary switch to move the pointer to the alarm whose setting you want to change.
5. Press (D) to the alarm where the pointer is located between on and off.

Turning on an alarm causes **▶▶▶** to appear on the display to the right of the time setting. If snooze is turned on, [SNZ] also appears.
6. Press (C) as many times as necessary to exit the setting screen.

● To stop a sounding alarm

Pressing any button while the beeper is sounding stops it.

Note

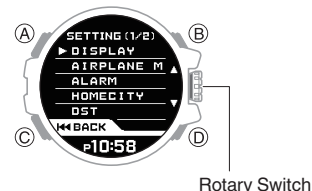
- When snooze is enabled for an alarm, it will repeat every five minutes, up to seven times. To stop an alarm's ongoing snooze operation, turn off the alarm.
- The alarm beeper sound may be distorted if a navigation operation is in progress.

Enabling the Button Operation Tone

Use the procedure below to enable or disable the tone that sounds when you press a button.

1. Press (A).

This displays the Timekeeping Mode setting screen.



Rotary Switch

2. Rotate the rotary switch to move the pointer to [BEEP].
3. Press the rotary switch.
4. Rotate the rotary switch to move the pointer to [ON] (enabled) or [OFF] (disabled).
5. Press the rotary switch to exit the setting screen.

This returns to the Timekeeping Mode setting screen.

 - **▶▶▶** is displayed in the Timekeeping Mode while the operation tone is disabled.
6. Press (C) to exit the setting screen.

Other Information

This section provides non-operational information you also need to know. Refer to this information as required.

City Table

City		Offset
UTC	Coordinated Universal Time	0
LONDON	London	0
PARIS	Paris	+1
ATHENS	Athens	+2
JEDDAH	Jeddah	+3
TEHRAN	Tehran	+3.5
DUBAI	Dubai	+4
KABUL	Kabul	+4.5
KARACHI	Karachi	+5
DELHI	Delhi	+5.5
KATHMANDU	Kathmandu	+5.75
DHAKA	Dhaka	+6
YANGON	Yangon	+6.5
BANGKOK	Bangkok	+7
HONG KONG	Hong Kong	+8
PYONGYANG	Pyongyang	+8.5
EUCLA	Eucla	+8.75
TOKYO	Tokyo	+9
ADELAIDE	Adelaide	+9.5
SYDNEY	Sydney	+10
LORD HOWE ISLAND	Lord Howe Island	+10.5
NOUMEA	Noumea	+11
WELLINGTON	Wellington	+12
CHATHAM ISLANDS	Chatham Islands	+12.75
NUKU'ALOFA	Nuku'alofa	+13
KIRITIMATI	Kiritimati	+14
BAKER ISLAND	Baker Island	-12
PAGO PAGO	Pago Pago	-11
HONOLULU	Honolulu	-10
MARQUESAS ISLANDS	Marquesas Islands	-9.5
ANCHORAGE	Anchorage	-9
LOS ANGELES	Los Angeles	-8
DENVER	Denver	-7
CHICAGO	Chicago	-6
NEW YORK	New York	-5
HALIFAX	Halifax	-4
ST. JOHN'S	St. John's	-3.5
RIO DE JANEIRO	Rio de Janeiro	-3
FERNANO DE NORONHA	Fernando de Noronha	-2
PRAIA	Praia	-1

- The information in the above table is current as of July 2017.
- Time zones may change and UTC differentials may become different from those shown in the table above. If this happens, connect the watch with a phone to update the watch with the latest time zone information.

Summer Time Table

When "AT (AUTO)" is selected for a city that observes summer time, switching between standard time and summer time will be performed automatically at the timing shown in the table below.

Note

- If the summer time start and end dates for your current location have been changed, they may be different from those indicated in the table below. If this happens, you can have new summer time information for your Home City and World Time city sent to the watch by connecting the watch with a phone. If you cannot connect with a phone for some reason, you can change the summer time setting to "STD" or "DST" manually.

City Name	Summer Time Start	Summer Time End
London	01:00, last Sunday in March	02:00, last Sunday in October
Paris	02:00, last Sunday in March	03:00, last Sunday in October
Athens	03:00, last Sunday in March	04:00, last Sunday in October
Tehran	00:00, March 22 or 21	00:00, September 22 or 21
Sydney, Adelaide	02:00, first Sunday in October	03:00, first Sunday in April
Lord Howe Island	02:00, first Sunday in October	02:00, first Sunday in April
Wellington	02:00, last Sunday in September	03:00, first Sunday in April
Chatham Islands	02:45, last Sunday in September	03:45, first Sunday in April
Nuku'alofa	02:00, first Sunday in November	03:00, third Sunday in January
Anchorage	02:00, second Sunday in March	02:00, first Sunday in November
Los Angeles	02:00, second Sunday in March	02:00, first Sunday in November
Denver	02:00, second Sunday in March	02:00, first Sunday in November
Chicago	02:00, second Sunday in March	02:00, first Sunday in November
New York	02:00, second Sunday in March	02:00, first Sunday in November
Halifax	02:00, second Sunday in March	02:00, first Sunday in November
St. John's	02:00, second Sunday in March	02:00, first Sunday in November
Rio de Janeiro	00:00, third Sunday in October	00:00, third Sunday in February or 00:00, fourth Sunday in February

- The information in the above table is current as of July 2017.

Supported Phones

For information about phones that can connect with the watch, visit the CASIO website.

http://world.casio.com/os_mobile/wat/

Specifications

Accuracy :

±15 seconds a month (no adjustment by signal information)

Basic Functions :

Hour, minute, second, month, day, day of the week, a.m./p.m. (P)/24-hour timekeeping, full auto calendar (2000 to 2099)

Mobile Link :

Auto time adjustment
Auto Daylight Saving Time (summer time) switching
Phone finder
Communication Specifications
Bluetooth®
Frequency Band: 2400MHz to 2480MHz
Maximum Transmission: 0 dBm (1 mW)
Range: Up to 2 meters (Depends on environment.)

GPS Navigation :

Track log acquisition
Measurement intervals
Intermittent (each minute, non-stop for approximately 24 hours)
Continual (every few seconds, non-stop for approximately four or five hours)
Elapsed time measurement
Log usage conditions
Display of straight-line distance to goal, start, waypoints *
Display of direction to goal, start, waypoints *
Goal specification (by recall from point memory)
Route Navigation *
Backtrack
Point memory (time, year/month/day, latitude/longitude, altitude, barometric pressure, temperature)
Point memory icon specification
Track display switching (zoom out, zoom in)
* Waypoints are enabled only when settings are configured with the app.

Digital Compass :

Measuring range: 0° to 359°
Compass calibration (3-point calibration, magnetic declination angle)
60-second continuous measurement
Bearing memory

Barometer :

Measuring range: 260 to 1,100 hPa (or 7.65 to 32.45 inHg)
Display range: 260 to 1,100 hPa (or 7.65 to 32.45 inHg)
Measuring unit: 1 hPa (or 0.05 inHg)
Auto measurement interval: 2 hours
Calibration
Barometric pressure graph
Barometric Pressure Change Indicator

Thermometer :

Measuring range: -10.0°C to 60.0°C (or 14.0°F to 140.0°F)
Display range: -10.0°C to 60.0°C (or 14.0°F to 140.0°F)
Measuring unit: 0.1°C (or 0.2°F)
Calibration

Altimeter :

Measuring range: -700 to 10,000 m (or -2,300 to 32,800 ft.)
Measuring unit: 1 m (or 5 ft.)
Display Range: -10,000 to 10,000 m (or -32,800 to 32,800 ft.)
Measuring interval: 2 minutes/5 seconds
Reference altitude setting
Altitude differential measurement: -3,000 to +3,000m (or -9,840 to 9,840 ft.)

Sensor Accuracy :

Direction
Measurement accuracy: Within ±10°
Assured accuracy temperature range: -10°C to 60°C (14°F to 140°F)
Temperature
Measurement accuracy: Within ±2°C (±3.6°F)
Assured accuracy temperature range: -10°C to 60°C (14°F to 140°F)
Pressure
Measurement accuracy: Within ±3 hPa (0.1 inHg) (Altitude measurement accuracy: Within ±75 m (246 ft.))
Assured accuracy temperature range: -10°C to 40°C (14°F to 104°F)

Sunrise/Sunset :

Sunrise/sunset time display, Day select

Tide/Moon * :

Tide Level (Tide Graph)
Moon phase, Moon age
Day select
Time select (Tide Graph only)

* Requires configuration of app settings.

Stopwatch :

Measuring unit: 1 second
Measuring range: 999 hours 59 minutes 59 seconds (1,000 hours)
Measurement accuracy: ±0.0006%
Split times

Countdown Timer :

Setting unit: 1 minute
Measuring unit: 1 second
Measuring range: 24 hours
Time up: 10-second beeper

World Time :

Displays current time in UTC +39 cities (39 time zones) *, Auto Daylight Saving Time (summer time) setting

* Time zone data may change when the watch connects with a phone

Other :

Power Saving, LED light, Selectable light duration, Full Auto Light, Charge level indicator, Button confirmation tone enable/disable, Airplane Mode, 4 alarms (with snooze setting, 10-second alarm beeper)

Batteries :

Solar panel and one rechargeable battery

Battery Operating Time :

Using GPS
Intermittent Receive: Approximately 33 hours maximum
Continual Receive: Approximately 20 hours maximum

* Other functions continue operating for about 2 months after the GPS limits above.

Not Using GPS

Approximately 1.4 years

Charger :

Operating temperature: 5°C to 35°C (41°F to 95°F)
Power consumption: 5.0 V DC, Approximately 0.9 W

Specifications are subject to change without notice.

Mobile Link Precautions

● Legal Precautions

- This watch complies with or has received approval under the radio laws of various countries and geographical areas. Using this watch in an area where it does not comply with or has not received approval under applicable radio laws may be a criminal offense. For details, visit the CASIO Website.

<http://world.casio.com/ce/BLE/>

- Use of this watch inside of aircraft is restricted under the aviation laws of each country. Be sure to follow the instructions of airline personnel.

● Precautions when using Mobile Link

- When using this watch in combination with a phone, keep the watch and phone close to each other. A range of two meters is recommended as a guideline, but the local environment (walls, furniture, etc.), the structure of a building, and other factors may require a much closer range.
- This watch can be affected by other devices (electrical devices, audio-visual equipment, office equipment, etc.) In particular, it can be affected by operation of a microwave oven. The watch may not be able to communicate normally with a phone if a microwave oven is operating nearby. Conversely, this watch may cause noise in radio reception and the video image of a TV.
- Bluetooth of this watch uses the same frequency band (2.4 GHz) as wireless LAN devices, and use of such devices in close proximity of this watch may result in radio interference, slower communication speeds and noise for the watch and the wireless LAN device, or even communication failure.

● Stopping Radio Wave Emission by This Watch

The watch receives radio signals while it is in the Communication Mode or while GPS navigation is in use.

Also, the watch connects with a phone automatically four times a day to adjust its time setting.

When in a hospital, on an aircraft, or in any other area where the use of radio waves is not allowed, enter the Airplane Mode.

[Using the Watch in a Medical Facility or Aircraft](#)

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Troubleshooting

Charging with the Charger

Q1 The watch won't charge with the charger.

Is the watch securely attached to the charger?

Charging may fail if there is space between the charger and watch.

↙ [Precautions When Charging](#)

Did you leave the watch attached to the charger after charging was complete?

Charging stops automatically after the watch becomes fully charged. If you want to charge again, remove the watch from and then re-attach it to the charger.

Is charging still impossible after checking the above points?

Check to make sure that the USB device or power source is functioning normally.


Q2 Charging stops before it is complete.

Charging may stop if some temporary abnormality occurs. Unplug the USB cable from the charger and check for abnormalities. If there is nothing wrong, try charging again. If the above does not eliminate the problem, contact your original retailer or a CASIO service center.

Signal Reception (GPS)

Q1 The watch cannot perform a GPS signal receive operation.

Is the watch's battery charged?

GPS signal reception is not possible while the battery indicator is  or lower. Charge the watch.

↪ [Charging the Watch](#)

Is the watch in the Timekeeping Mode?

GPS signal reception is not possible unless the watch is in the Timekeeping Mode. Signal reception is also disabled in the Airplane Mode. Return to the Timekeeping Mode.

↪ [Navigating Between Modes](#)

After checking the above, the watch still cannot perform a GPS signal receive operation.

GPS signal reception is not possible under the conditions described below.

- During power saving
- Timer countdown operation in progress

Q2 The watch is not receiving time information.

The watch will not perform auto GPS signal receive while there is a connection between it and a phone. If you want to receive GPS signals in this case, perform manual receive.

- ↪ [Acquiring GPS Time Information Manually](#)
- ↪ [Connecting with a Phone to Adjust the Watch's Time](#)

Q3 A screen showing that a receive operation is in progress has been on the display for a long time.

The watch may be receiving leap second information.

↪ [Leap Second Reception](#)

Q4 The GPS signal receive operation always fails.

Is the watch in a location that is appropriate for signal reception?

Check your surroundings and move the watch to a location where GPS signal reception is better.

↪ [Appropriate Signal Reception Location](#)

Is the LCD of the watch pointed straight up at the sky?

Minimize movement of the watch while the receive operation is in progress. When the watch is set up for auto receive, take care to avoid covering its LCD with the sleeve of your clothing.

An alarm started sounding while the receive operation was in progress.

Receive stops if an alarm operation starts while it is being performed. Disable the alarm.

↪ [To turn an alarm on or off](#)

Q5 Signal reception should have been successful, but the watch's time and/or day is wrong.

Is your Home City (time zone) setting correct for your location?

Change your Home City (time zone) setting so it correctly indicates your location.

↪ [Acquiring GPS Position Information Manually](#)

↪ [Setting a Home Time City](#)

After checking the above, the time and/or day settings is still wrong.

Adjust time and day settings manually.

I can't pair the watch with a phone.

Q1 I've never been able to establish a (pairing) connection between the watch and phone.

Are you using a supported phone model?

Check if the phone model and its operating system are supported by the watch.

For information about supported phone models, visit the CASIO Website.

↪ http://world.casio.com/os_mobile/wat/

Did you install G-SHOCK Connected on your phone?

G-SHOCK Connected needs to be installed on your phone in order to connect with the watch.

↪ [Install the app on your phone.](#)

Are your phone's Bluetooth settings configured correctly?

Configure the phone's Bluetooth settings. For details about setting procedures, see your phone documentation.

iPhone Users

- "Settings" → "Bluetooth" → On
- "Settings" → "Privacy" → "Bluetooth Sharing" → "G-SHOCK Connected" → On

Android Users

- Enable Bluetooth.

Other than the above.

Some phones need to have BT Smart disabled to use G-SHOCK Connected. For details about setting procedures, see your phone documentation.

On the Home Screen, tap: "Menu" → "Settings" → "Bluetooth" → "Menu" → "BT Smart settings" → "Disable".

I can't reconnect the watch and phone.

Q1 The watch will not re-connect with the phone after they are disconnected.

Is G-SHOCK Connected running?

The watch cannot re-connect with the phone unless G-SHOCK Connected is running on the phone. On the phone's Home Screen, tap the G-SHOCK Connected icon. Then on the watch, hold down (C) for about 2.5 seconds to enter the Communication Mode.

[Mode Overview](#)



Have you tried turning your phone off and then back on again?

On the phone, turn power off and then back on, and then tap the G-SHOCK Connected icon. Next, on the watch, hold down (C) for about 2.5 seconds to enter the Communication Mode.

[Mode Overview](#)



Q2 I can't connect while my phone is in the Airplane Mode.

Connection with the watch is not possible while the phone is in the Airplane Mode. On the phone, exit the Airplane Mode, and then go to the Home Screen and tap the "G-SHOCK Connected" icon. Next, on the watch, hold down (C) for about 2.5 seconds to enter the Communication Mode.

[Mode Overview](#)



Q3 I can't connect while the watch is in the Airplane Mode.

On the watch, exit the Airplane Mode. Next, on the watch, hold down (C) for about 2.5 seconds to enter the Communication Mode.

[Mode Overview](#)



Q4 I changed the phone's Bluetooth from enabled to disabled, and now I can't connect anymore.

On the phone, disable and then re-enable Bluetooth, and then go to the Home Screen and tap the "G-SHOCK Connected" icon. Next, on the watch, hold down (C) for about 2.5 seconds to enter the Communication Mode.

[Mode Overview](#)



Q5 I can't connect after turning off the phone.

On the phone, turn on power and then tap the G-SHOCK Connected icon. Next, on the watch, hold down (C) for about 2.5 seconds to enter the Communication Mode.

[Mode Overview](#)



Phone-Watch Connection

Q1 I can't establish a connection between the phone and watch.

Have you tried turning your phone off and then back on again?

On the phone, turn power off and then back on, and then tap the G-SHOCK Connected icon. Next, on the watch, hold down (C) for about 2.5 seconds to enter the Communication Mode.

[Mode Overview](#)



Has the watch been re-paired with the phone?

After unpairing the watch and phone, re-pair them again.

[Unpairing](#)

If you are unable to establish a connection...

Use the procedure below to delete the pairing information from the watch, and then re-pair the watch and phone.

- ① Hold down (C) for about one second to enter the Timekeeping Mode.
- ② Press (A) to display the setting screen.
- ③ Rotate the rotary switch to move the pointer to [UNPAIRING].
- ④ Press the rotary switch.
- ⑤ Rotate the rotary switch to move the pointer to [YES].
- ⑥ Press the rotary switch to delete pairing information.
- ⑦ Press (C) to exit the setting screen.

Changing to a Different Phone Model

Q1 Connecting the current watch to another phone.

Pair the watch with the phone.

🔗 [After Purchasing Another Phone](#)

Auto Time Adjustment by Bluetooth Connection (Time Adjustment)

Q1 When does the watch adjust its time?

The watch will connect with the phone and perform auto time adjustment at around 12:30 a.m., 6:30 a.m., 12:30 p.m. and 6:30 p.m. The connection is automatically terminated after auto time adjustment is complete. Also, GPS signal receive will be performed if there has been no auto time adjustment based on connection between the watch and phone for more than one day.

Q2 Auto time adjustment is performed, but the time setting is not correct.

Is auto time adjustment not being performed according to its normal schedule?

Note that auto time adjustment is not performed for 24 hours after the time setting is adjusted manually on the watch. Auto time adjustment will resume after 24 hours.

Is a timer countdown operation in progress?

Auto time adjustment will not start at the scheduled times if a timer countdown operation is in progress. Stop the timer countdown operation.

🔗 [Using the Timer](#)

Is the watch in the Airplane Mode?

Auto time adjustment will not be performed at the scheduled times if the watch is in the Airplane Mode. Exit the watch's Airplane Mode.

🔗 [Using the Watch in a Medical Facility or Aircraft](#)

Q3 The watch does not synchronize its time setting with a phone even though I follow the steps under [Triggering Immediate Time Adjustment](#).

The watch will not start time adjustment while a timer countdown operation is in progress. Wait until the timer countdown operation is complete and then perform the operation again.

Q4 Time is not displayed correctly.

The phone's time setting may be incorrect because it is unable to connect with its network due to being out of range, etc. If this happens, connect the phone to its network and then adjust the time setting.


Navigation

Q1 The watch won't enter the GPS Navigation Mode.

Is the watch being charged with the charger?

The GPS Navigation Mode cannot be used while the watch is being charged with the charger. Remove the watch from the charger.

Is the battery charge level sufficient?

The GPS function can be used only when the battery indicator shows  or higher. If the battery charge level is too low, charge the watch.

🔗 [Charging the Watch](#)

Altitude Measurement

Q1 Readings produce different results at the same location.
Watch readings are different from altitude information available from other sources.
Correct altitude readings are not possible.

Relative altitude is calculated based on changes in barometric pressure measured by the watch's pressure sensor. This means that barometric pressure changes can cause readings taken at the same location to be different. Also note that the value displayed by the watch may be different from the actual elevation and/or sea level elevation indicated for the area where you are located. When using the watch's altimeter while mountain climbing, it is recommended that you regularly calibrate its readings in accordance with local altitude (elevation) indications.

🔗 [Calibrating Altitude Readings](#)

Q2 [-----] appears on the display following altitude differential measurement.

[-----] appears when the altitude differential is outside the allowable measuring range ($\pm 3,000$ m). If [ERROR] appears on the display, there may be a problem with the sensor.

🔗 [Setting a Reference Altitude and Taking Relative Altitude Readings](#)


Q3 [ERROR] appears during measurement.

There may be a problem with the sensor. Try taking another measurement. If [ERROR] keeps appearing after multiple measurement attempts, contact a CASIO service center.

Digital Compass

Q1 The symbol  is shown on the display.

Abnormal magnetism has been detected. Move away from any potential source of strong magnetism and try taking a reading again.

- If  appears again, it could mean that the watch body has become magnetized. Move away from any potential source of strong magnetism, perform direction calibration, and then try taking a reading again.

[Calibrating Compass Readings](#)

[Digital Compass Reading Precautions](#)

Q2 [ERROR] appears during measurement.

There is a problem with the sensor or there may be a source strong magnetic force nearby. Move away from any potential source of strong magnetism and try taking a reading again. If [ERROR] keeps appearing after multiple measurement attempts, contact a CASIO service center.

[Digital Compass Reading Precautions](#)

Q3 [ERROR] appears on the display following direction calibration.

If [- -] is followed by [ERROR] on the display, it could mean there is something wrong with the sensor.

- If [ERROR] disappears after about one second, try performing bidirectional calibration again.
- If [ERROR] continues to appear even after multiple attempts, contact a CASIO service center.

Q4 Direction information indicated by the watch is different from that indicated by a backup compass.

Move away from any potential source of strong magnetism, perform bidirectional calibration, and then try taking a reading again.

[Calibrating Compass Readings](#)

[Digital Compass Reading Precautions](#)

Q5 Readings at the same location produce different results. Cannot take readings indoors.

Move away from any potential source of strong magnetism and try taking a reading again.

[Digital Compass Reading Precautions](#)

Barometric Pressure Measurement

Q1 [ERROR] appears during measurement.

There may be a problem with the sensor. Try taking another measurement. If [ERROR] keeps appearing after multiple measurement attempts, contact a CASIO service center.

Temperature Measurement

Q1 [ERROR] appears during measurement.

There may be a problem with the sensor. Try taking another measurement. If [ERROR] keeps appearing after multiple measurement attempts, contact a CASIO service center.

Alarms

Q1 The alarm does not sound.

Is the watch's battery charged?

Charge the watch until the battery is sufficiently recharged.

[Charging the Watch](#)

Is the alarm enabled?

Enable the alarm.

[To turn an alarm on or off](#)