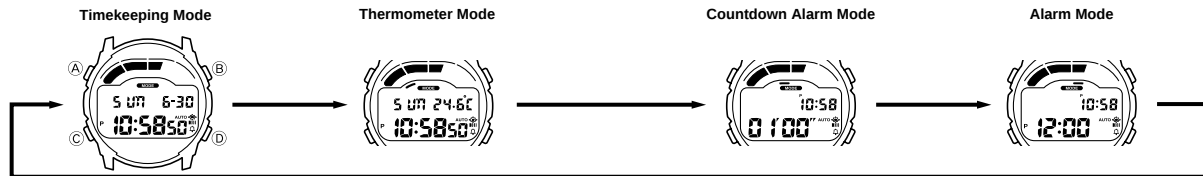


2. OPERATION CHART : QW-1645

GENERAL GUIDE

- Press **(C)** to change from mode to mode. After you perform an operation in any mode, pressing **(C)** returns to the Timekeeping Mode.
- In any mode (except when making settings) press **(B)** to illuminate the display for about two seconds.



TIMEKEEPING MODE

To set the time and date

1. Hold down **(A)** while in the Timekeeping Mode until the seconds digits flash on the display because they are selected.
2. Press **(C)** to change the selection in the following sequence.

Seconds

Hour

Minutes

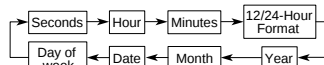
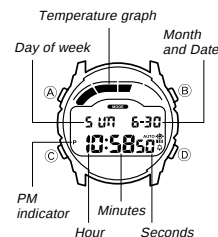
12/24-Hour Format

Day of week

Date

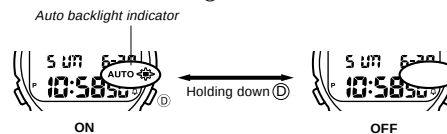
Month

Year
3. While the seconds digits are selected (flashing), press **(D)** to reset the seconds to 00. If you press **(D)** while the seconds count is in the range of 30 to 59, the seconds are reset to 00 and 1 is added to the minutes. If the seconds count is in the range of 00 to 29, the minutes count is unchanged.
4. While any other digits (beside seconds) are selected (flashing), press **(D)** to increase the number or **(B)** to decrease it. While the day of the week is selected, press **(D)** to advance to the next day and **(B)** to move back. While the 12/24-hour format setting is selected, press **(D)** to toggle it between 12 and 24.
 - Except for when adjusting the seconds or setting the 12/24-hour format, holding down a button changes the current selection at high speed.
 - When the 12-hour format is selected, the indicator A appears on the display to indicate "A.M." times or indicator P appears on the display to indicate "P.M." times. Selecting the 24-hour format causes the indicator 24 to appear on the display.
5. After you set the time and date, press **(A)** to return to the Timekeeping Mode.
 - The date can be set within the range of January 1, 1995 to December 31, 2039.
 - If you do not operate any button for a few minutes while a selection is flashing, the flashing stops and the watch goes back to the Timekeeping Mode automatically.



To switch the auto backlight function on and off

In the Timekeeping Mode, hold down **(D)** to turn the auto backlight function on and off.



- The auto backlight indicator is shown on the display in all modes while the auto backlight function is on.
- In order to protect against running down the battery, the auto backlight function is automatically turned off approximately three hours after you turn it on. Repeat the above procedure to turn the auto backlight function back on if you want.
- Pressing **(B)** at any time illuminates the display for about two seconds, regardless of the auto backlight's on/off setting.

Caution

- The backlight of this watch employs an electro-luminescent (EL) light, which loses its illuminating power after very long term use.
- Frequent use of the backlight shortens the battery life.
- The watch emits an audible sound whenever the display is illuminated. This is because the EL light vibrates slightly when lit. It does not indicate malfunction of the watch.

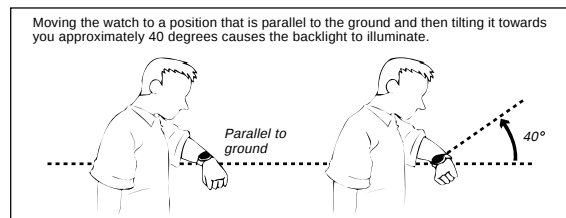
Warning!

- **Never try to read your watch when mountain climbing or hiking in areas that are dark or in areas with poor footing. Doing so is dangerous and can result in serious personal injury.**
- **Never try to read your watch when running on a roadside or in any other location where there might be vehicular or pedestrian traffic. Doing so is dangerous and can result in serious personal injury.**
- **Never try to read your watch when riding on a bicycle or when operating a motorcycle or any other motor vehicle. Doing so is dangerous and can result in a traffic accident and serious personal injury.**
- **When you are wearing the watch, make sure that its auto backlight function is turned off before riding on a bicycle or operating a motorcycle or any other motor vehicle. Sudden and unintended operation of the auto backlight can create a distraction, which can result in a traffic accident and serious personal injury.**

ABOUT THE BACKLIGHT

About the Auto Backlight Function

When the auto backlight function is turned on, the backlight automatically turns on for two seconds under the conditions described below. Avoid wearing the watch on the inside of your wrist. Doing so causes the auto backlight to operate when not needed, which shortens battery life.



- The backlight may not illuminate if the face of the watch is more than 15 degrees off parallel to the left or right. Make sure that the back of your hand is parallel to the ground.



- Static electricity or magnetic force can interfere with proper operation of the auto backlight function. If the auto backlight does not illuminate, try moving the watch back to the starting position (parallel with the ground) and then tilt it back toward you again. If this does not work, drop your arm all the way down so it hangs at your side, and then bring it back up again.
- Under certain conditions the backlight may not light until about one second or less after turn the face of the watch towards you. This does not necessarily indicate malfunction of the backlight.

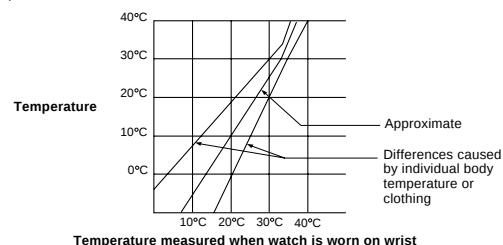
THERMOMETER MODE

A built-in temperature sensor measures temperature and shows the measured value on the display. The readout from the temperature sensor can also be switched between Celsius (°C) and Fahrenheit (°F). The thermometer can be calibrated to correct for errors.

Important

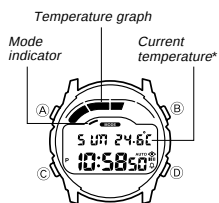
Temperature measurements are affected by your body temperature (while you are wearing the watch), direct sunlight, and moisture. To achieve a more accurate temperature measurement, remove the watch from your wrist, place it in a well ventilated location out of direct sunlight, and wipe off all moisture from the case. It takes approximately 20 to 30 minutes for the case of the watch to reach the actual surrounding temperature.

Accurate temperature measurements cannot be achieved while you are wearing the watch. The following graph illustrates affects of body temperature on actual temperature.



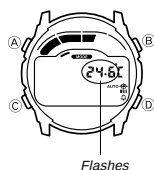
About Temperature Measurement

- A temperature graph which is automatically updated every five minutes, is shown on the display in all modes (except when making settings). Measured temperature values can be viewed in the Thermometer Mode only.
- Pressing **(D)** while in the Thermometer Mode performs temperature measurement and causes the measured value to appear on the display.



* The display shows "—" °C (or °F)* if a measured value falls outside the range of -20°C to 60°C (-4°F to 140°F). The normal display will return as soon as the temperature returns within the allowable range.

Switching between Celsius and Fahrenheit



- Hold down **(A)** while in the Thermometer Mode and the current temperature digits flash.
- Press **(C)** to select either Celsius "C" or Fahrenheit "F".
- After you select the Celsius or Fahrenheit, press **(A)** to return to the Temperature Display.
- If you do not operate any button for a few minutes while a selection is flashing, the flashing stops and the watch goes back to the Thermometer Mode automatically.

Calibrating the Temperature Measurement

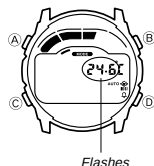
The temperature sensor of this watch is calibrated at the factory before shipment and further adjustment is normally not required. If noticeable error is found in the temperature readings produced by the watch, you can adjust it to correct the error.

Important

Incorrectly calibrating the temperature measurement of this watch can result in incorrect readings. Carefully read the following before doing anything.

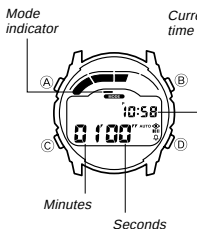
- Compare the readings produced by the watch with those of another reliable, accurate thermometer.
- If calibration is required, remove the watch from your wrist and wait for 20 or 30 minutes to give the temperature of the watch time to stabilize.
- Perform the temperature calibration as quickly as possible to avoid the temperature of the watch being affected by your body temperature.
- You can also perform temperature calibration underwater, if the water temperature is stable.

To calibrate the temperature



- Hold down **(A)** while in the Thermometer Mode and the current temperature digits flash.
- Each press of **(D)** increase the displayed temperature by 0.1°C, and pressing the **(B)** decrease it by 0.1°C.
- If you have selected Fahrenheit as your unit of measurement, the above operations change the reading by 0.2°F.
- You can calibrate the temperature within a range of -9.9°C to +9.9°C (-18.0°F to +18.0°F).
- Press **(B)** and **(D)** at the same time to reset the temperature calibration to the factory setting.
- After calibrating the temperature, press **(A)** to return to the Temperature Display.
- If you do not operate any button for a few minutes while a selection is flashing, the flashing stops and the watch goes back to the Thermometer Mode automatically.

COUNTDOWN ALARM MODE



The countdown timer can be set within a range of 1 minute to 60 minutes. When the countdown reaches zero, an alarm sounds for 10 seconds or until you press any button.

To set the countdown time

- Hold down **(A)** while in the Countdown Alarm Mode. The minutes digits flash on the display because they are selected.
- Press **(D)** to increase the minutes digits or **(B)** to decrease them. Holding down either button changes the setting at high speed.
- After you set the countdown alarm time, press **(A)** to return to the Countdown Alarm Mode.
- If you do not operate any button for a few minutes while a selection is flashing, the flashing stops and the watch goes back to the Countdown Alarm Mode automatically.

To use the countdown timer

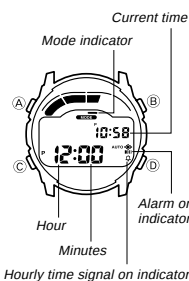
- Press **(D)** while in the Countdown Alarm Mode to start the countdown timer.
- Press **(D)** again to stop the countdown timer.
- You can resume countdown timer operation by pressing **(D)**.
- Stop the timer and then press **(A)** to reset the countdown time to its starting value.

ALARM MODE

When the Daily Alarm is turned on, the alarm sounds for 20 seconds at the preset time each day. Press any button to stop the alarm after it starts to sound. When the Hourly Time Signal is turned on, the watch beeps every hour on the hour.

To set the alarm time

- Hold down **(A)** while in the Alarm Mode. The hour digits flash on the display because they are selected. At this time the Daily Alarm is turned on automatically.
- Press **(C)** to change the selection in the following sequence.

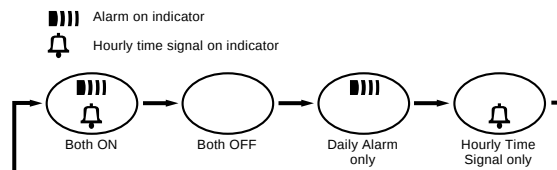


Hourly time signal on indicator

- Press **(D)** to increase the selected digits or **(B)** to decrease them. Holding down either button changes the selection at high speed.
- The format (12-hour and 24-hour) of the alarm time matches the format you select for normal timekeeping.
- When setting the alarm time using the 12-hour format, take care to set the time correctly as morning (A) or afternoon (P).
- After you set the alarm time, press **(A)** to return to the Alarm Mode.
- If you do not operate any button for a few minutes while a selection is flashing, the flashing stops and the watch goes back to the Alarm Mode automatically.

To switch the daily alarm and hourly time signal on and off

Press **(D)** while in the Alarm Mode to change the status of the daily alarm and hourly time signal in the following sequence.



To test the alarm

Hold down **(D)** while in the Alarm Mode to sound the alarm.