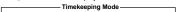
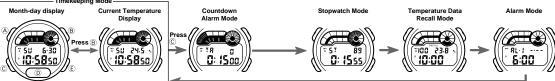
2. OPERATION CHART : QW-1680

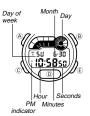
GENERAL GUIDE

 Press © to change from mode to mode.
 In the Timekeeping Mode, Temperature Data Recall Mode and Alarm Mode, press © to illuminate the display for about two seconds. In the Countdown Alarm Mode and Stopwatch Mode, press (E) to illuminate the display for about two seconds.





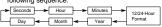
TIMEKEEPING MODE



You can select display of either the current date (month and day) or temperature in the Timekeeping Mode. Press (a) to toggle between the date and temperature display.

To set the time and date

While the current date (not the temperature) is displayed in the Timekeeping Mode, hold down (a) until the seconds digits flash on the display. 2. Press © to change the selection (flashing) in the following sequence.



3. While the seconds setting is selected (flashing), press (£) to reset it to 00. If you press (£) while the seconds setting is in the range of 30 to 59, the seconds are reset to 00 and 1 is added to the minutes. If the seconds setting is in the range of 00 to 20 the seconds setting is in the range of

- While any other setting (besides seconds) is selected (flashing), press () to construct the thermal of the second setting (besides seconds) is selected (flashing), press () to decrease it. While the 12/24-hour format setting is selected, press () to toggle it between 12 and 24.
 Except for the seconds or 12/24-hour setting, holding down a button changes the particle of this hermal.
- setting at high speed.

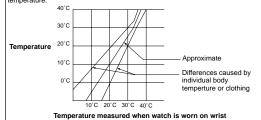
- setting at high speed. 5. After you set the time and date, press (a) to return to the Timekeeping Mode. The day of the week is automatically set in accordance with the date. The date can be set within the range of January 1, 1995 to December 31, 2039. If you do not operate any button for a few minutes while a setting is flashing, the flashing stops and the watch goes back to the Timekeeping Mode automatically.

Current Temperature Display 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

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 illustrated affects of body temperature on actual temperature.



About Temperature Measurement

<u>10:58so</u>,

temr graph

Temperature

- Current A temperature measurement operation is performed whenever you switch from month-day display to temperature display. Temperature measurements are performed and
 - the temperature value is updated every two minutes while the current temperature is
 - displayed. Pressing (© while the current temperature is displayed executes a temperature measurement operation and stores the result in memory along
 - With the time of the measurement.
 At the top of each hour, the current temperature is measured and stored in memory along with the time of the measurement.
- The display shows "--, 'C (or 'F)" if a measured value fails 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.
 Memory can hold up to 100 temperature data entries, which are managed on a first-in, first-out basis. See "TEMPERATURE DATA RECALL MODE" of this manual for details on how to recall memory data.
 The first data item is stored as data item 1, the second as data items 2, and so on up to 100 data items.
 When a new data item is stored while there are already 100 data items (numbered 1, 100) in person, the out point of the require the range to the top (on the red).
- to 100) in memory, the new data item is "pushed" into memory from the top (on top of item 100). This shifts all of the previous data items down one position (item 100 becomes item 99, 99 becomes 98, and so on), and item 1 is deleted.



Switching between Cersus and Fairement 1.Hold down (& while in the Current temperature Display and the current temperature digits flash. 2.Press (© to select either Celsius or Fahrenheit, press Other artware to the Chemostrum Dispersive to the Chemostrum Chemostrum

A to return to the Temperature Display.

Flashes

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 Current Temperature Display

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.

- 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

Perform the temperature of the watch time to stabilize.
Perform the temperature calibration before procedure 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



Flashes

- 1. Hold down (a) while in the Current Temperature Display and the current temperature digits flash.
 2. Each press of (b) 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).
 Press (b) and (c) at the same time to reset the temperature calibration to the factory setting.

- Press (B) and (E) at the same time to reset the temperature calibration to the factory setting.
 After calibrating the temperature, press (A) to return to the Current 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 Current Temperature Display automatically.

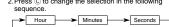
ABOUT THE BACKLIGHT

- Pressing () (Timekeeping Mode, Temperature Data Recall Mode, Alarm Mode) or (E) (Countdown Alarm Mode, Stopwatch Mode) illuminates the display for about two seconds
- The backlight of the watch employs an electro-luminescent (EL) light, which loses
- The backlight of the watch employs an electro-lumnescent (EL) light, which loses illuminating power after very long use.
 The illumination provided by the backlight may be hard to see when viewed under direct sunlight.
 The watch will emit an audible sound whenever the display is illuminated. This is caused by a transformer that vibrates when the EL panel lights up. It does not indicate malfunction of the watch.
 The backlight automatically turns off whenever an alarm sounds.

COUNTDOWN ALARM MODE

The countdown alarm can be set within a range of 1 second to 24 hours. When the countdown reaches 1/10 zero, an alarm sounds for 10 seconds or until you press any button.

To set the countdown start time 1. Hold down (a) while in the Countdown Alarm Mode. The hour digits flash on the display because they are selected. 2. Press © to change the selection in the following



3. Press (E) to increase the selected number or (B) To set the starting value of the countdown item to zero.
 After you set the countdown start 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.

Mode indica

0: 1500

Seconds Minutes

- Switching between Celsius and Fahrenheit

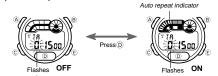
automatically

Important

- To use the countdown alarm 1. Press ^(D) while in the Countdown Alarm Mode to start the countdown alarm. 2. Press ^(D) again to stop the countdown alarm.
- You can resume countdown alarm operation by pressing D.
- 3. Stop the countdown alarm and then press (B) to reset the countdown time to its
- When the end of the countdown is reached and auto repeat timing is off, the alarm sounds for 10 seconds or until you stop the alarm by pressing any button. value after the alarm stops.

To switch auto repeat timing on and off

1. Hold down (A) while in the Countdown Alarm Mode. The hour digits flash on the display because they are selected.

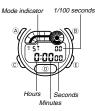


- 2. Press D to toggle auto repeat on and off.
- 3. Press (a) to return to the Countdown Alarm Mode. When the end of the countdown is reached while auto repeat is on, the alarm sounds,
- but the countdown restarts from the beginning without stopping. You can stop the countdown by pressing (i) and manually reset to the start time by pressing (ii). If you est a starting time of 10 seconds or less and have Auto Repeat turned on, the countdown alarm tone (which normally sounds for 10 seconds) sounds for only one second

To turn the progress beeper on and off Press (B) while in the Countdown Alarm Mode to toggle the progress beeper on and off. When the progress beeper is turned on, the watch beeps as the countdown time passes the 10, 5, 4, 3, 2, and 1-minute marks, and the 50, 40, 30, 20, 10, 5, 4, 3, 2, and 1-second marks.



STOPWATCH MODE



The stopwatch Mode lets you measure elapsed time, split times, and two finishes. The range of the stopwatch is 23 hours, 59 minutes, 59.99 seconds. You can use the EL backlight at any time while the stopwatch is operating.

EL

	ie measurement			
D	► U	→ D	→ U	→ ®
Start	Stop	Re-start	Stop	Clear
Split time m	B Split	B-B-B-B-B-B-B-B-B-B-B-B-B-B-B-B-B-B-B-	→ D Stop	→ B Clear
Split time a	nd 1st-2nd place time	s		
Ó	>®	→ D	→®	→®
Start	First suppor	Second suppor	Record time of	

Start Split Stop Split release Clear	First runner finishes.	Second runner finishes. Record time of first runner.	Record time of second runner.	
Stop Split release	finishes.	Record time of		second runner.



0.000

About the Auto-Start function

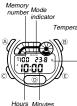
With the Auto-Start function, the watch performs a 5-second countdown. When the countdown reaches zero, stopwatch operation starts automatically. During the final three seconds of the countdown, a beeper sounds with each second.

To turn the Auto-Start function on and off While the display is showing all zeros in the Stopwatch Mode, press (A) to toggle it on and off. • 5 is shown in the upper display while Auto-Start is turned on. 5 is not shown and the upper part of the display shows all zeros when Auto-Start is

turned off.

turneo ort. • To stop the Auto-Start countdown and return to the all-zeros display, press (B). • Pressing (D) while the Auto-Start countdown is in progress immediately start the stopwatch.

TEMPERATURE DATA RECALL MODE



Use this mode to recall temperature data that was stored in memory. Memory can hold up to 100 temperature data entries, which are managed on a first-in, first-out basis,

- When memory is full, the next measurement causes the oldest entry to be deleted
- automatically. Press (E) to scroll forward through data, and (B) to scroll back. Recalling data starts with data item

ALARM MODE

Alarm on Mode indicato







Alarm types The types of alarm you get depends on the information you set.

To set a daily alarm

Set the hour and minutes for the alarm time. Set "-" for the month and "--" for the day. This type of setting causes the alarm to sound everyday at the time you set.

· To set a date alarm

Set the month, day, hour and minutes for the alarm time. This type of setting causes the alarm to sound at the specific time, on the specific date you set.

To set a 1-month alarm

Set the month, hour and minutes for the alarm time. Set "--" for the day. This type of setting causes the alarm to sound every day at the time you set, only during the month you set.

• To set a monthly alarm Set the day, hour and minutes for the alarm time. Set "-" for the month. This type of setting causes the alarm to sound every month at the time you set, on the day you set.

Alarm on indicator

To set the alarm time 1. Press $(\!\!\!\!\mathrm{\bar{E}})$ while in the Alarm Mode to select Alarm 1 through Alarm 5.

>	Alarm 1	┝≻	Alarm 2	→	Alarm 3	->	Alarm 4	F

Hourly Time Signal
Alarm 5

2. After you select an alarm, hold down (a) until the hour digits start to flash on the display. The hour digits flash because they are selected. At this time the Alarm is automatically switched on.

- 3. Press © to change the selection in the following sequence
- Hour Minutes Month Dav
- ٨ 4. Press (E) to increase the number or (B) to decrease it. Holding down either button
- The off the intervention of the off the o
- correctly as morning or afternoon. 5. 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 stop the alarm • Press any button to stop the alarm after it starts to sound.

To switch an alarm and Hourly Time Signal on and off

Hourly time signal on indicator



To test the alarm Hold down ($\widehat{\mathbb{E}}$) while in the Alarm Mode to sound the alarm

- 3 -

100. You can then scroll back through the data term (99, 98, 97, and so on.)To delete all data in memory, hold down &. You cannot delete individual data items.

- You can set five independent alarms with the hour, minutes, month and day. Use the Alarm Mode to turn the alarm and the Hourly Time Signal on and off. When an alarm is turned on, an alarm tone sounds for 20 seconds when the preset time
- When the Hourly Time Signal is turned on, the watch beeps every hour on the hour.