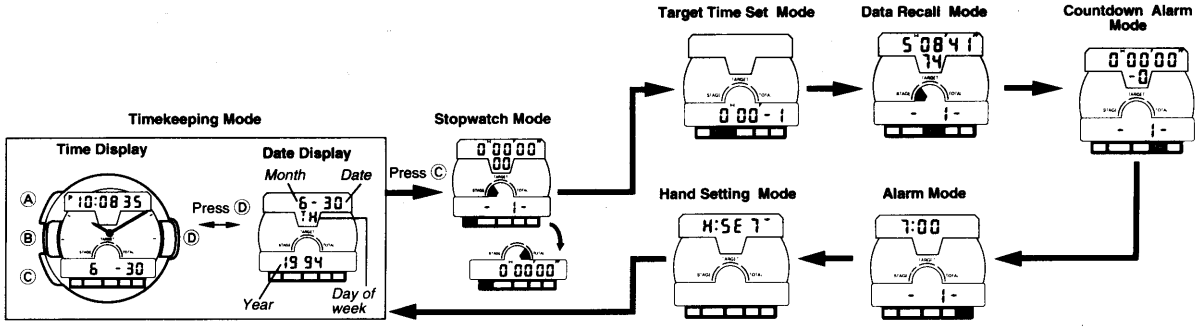
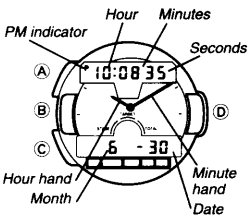
OPERATION CHART:MODULE QW-791

GENERAL GUIDE

- Press Ⓒ to change from mode to mode.
- After you perform an operation in any mode, pressing Ⓒ returns to the Timekeeping Mode.



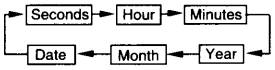
TIMEKEEPING MODE



- In the Timekeeping Mode, press Ⓓ to switch between time and date displays.
- While the current time is displayed in the Timekeeping Mode, press Ⓑ to switch between the 12-hour and 24-hour formats.

To set the time and date

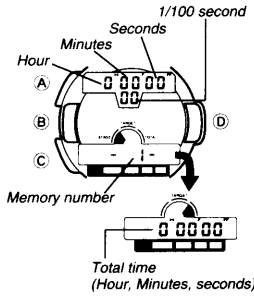
1. Hold down Ⓐ while in the Timekeeping Mode until the seconds digits start to flash on the display. The seconds digits flash because they are selected.
2. Press Ⓒ to change the selection in the following sequence.



3. While the seconds digits are selected (flashing), press Ⓓ to reset the seconds to "00". If you press Ⓓ 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 (besides seconds) are selected (flashing), press Ⓓ to increase the number or Ⓑ to decrease it. Holding down either button changes the current selection at high speed.
5. After you set the time and date, press Ⓐ 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, 1990 to December 31, 2029.
- 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.
- When you use the above procedure to set the time on the digital display, the hands of the analog timepiece normally adjust according to your setting. If, for any reason, the analog time does not match the digital time, use the procedure described under "Hand Setting Mode" to match the analog setting with the digital display.

STOPWATCH MODE



The stopwatch can measure time in units of 1/100 of a second, up to 23 hours, 59 minutes, 59.99 seconds. At that point, timing continues from 0H00'00"00. You can also set up to five target times (see "Target Time Mode"), which causes an alarm to sound for 10 seconds when a target time is reached. Up to 30 stopwatch measurements can be stored in memory, and the watch automatically calculates and displays the total of all measurement times.

The following explains a few important basic concepts that you must understand before using the memory and total time.

About the memory

Whenever you clear the stopwatch display to all zeros by pressing Ⓑ, the time of the last measurement is automatically stored into memory under a memory number. At that time, the lower display shows the next memory number for about one second.

- Whenever a measurement exceeds 23 hours, 59 minutes, 59.99 seconds, a time of 24 hours is automatically stored in the current memory, and timing for the next memory is started from 0H00'00"00.
- When memory becomes full (after 30 times are stored), the next data storage operation is performed by automatically deleting the oldest data currently in memory. When this happens, data items are renumbered so that the oldest data currently in memory is always in memory number 1. For details on recalling memory data and how to manually delete data, see "Data Recall Mode".

About the total time

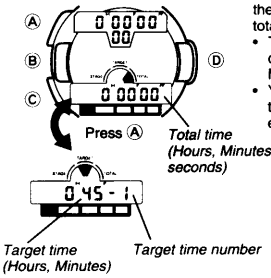
Whenever you enter the Stopwatch Mode, the lower display shows the total of all measured times. Total time can be accumulated in 1-second units, up to 999 hours, 59 minutes, 59 seconds. This means you can easily find out your cumulative time by timing individual stages, or segments of an event.

- Even though the total time display shows only a maximum of 999 hours, 59 minutes, 59 seconds, the stopwatch continues to operate even after the maximum is passed.

Important!

- The stopwatch automatically deletes data when memory becomes full. However, data deleted by this operation is still included in the total time.
- The total time does not include times that were manually deleted using the procedures described in the Data Recall Mode.

Switching between the target time and total time displays



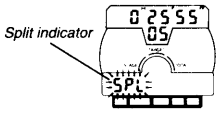
While in the Stopwatch Mode, press Ⓐ to switch the lower display between target times and the total time.

- The total time is always shown in the lower display whenever you enter the Stopwatch Mode from another mode.
- You can switch between the target time and total time display even while a stopwatch operation is in progress.

To measure elapsed time

1. Press Ⓓ to start the stopwatch.
2. Press Ⓑ to stop the stopwatch.
- You can resume the measurement operation by pressing Ⓓ again.
3. Press Ⓑ to clear the stopwatch to all zeros.
- The target time display shows the next sequential target time. If the target time is displayed while a stopwatch operation is in progress, it automatically changes to the next target time when the currently displayed target time is reached.

To record split times



1. Press Ⓓ to start the stopwatch.
2. Press Ⓓ to display the timing up to that point. Stopwatch timing continues internally.
- When you do, times are remaining on the display for about 5 seconds, and then the display changes back automatically to the stopwatch display.
3. You can repeat step 2 as many times as you want.
4. Press Ⓑ to stop the time measurement.
5. Press Ⓑ to clear the stopwatch to all zeros.

Cancelling a stopwatch operation

If you accidently start stopwatch operation when you don't want to, you can cancel the operation by holding down the Ⓓ button until the current measurement is cleared from the display. Doing so returns the total time to the value it was at before you started the cleared stopwatch operation.

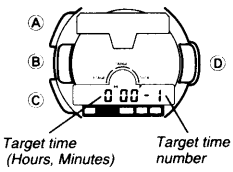
TARGET TIME MODE

You can preset up to five target times in 1-minute increments, up to 23 hours, 59 minutes.

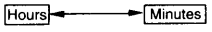
Note

You cannot set target times while a stopwatch operation is in progress. Make sure that the stopwatch is stopped and cleared to all zeros before performing the following procedure.

To set a target time



1. Enter the Target Time Mode.
2. Use Ⓓ and Ⓑ to select the target time number whose time you want to set.
- You will be able to select any target time number that is already set with a time (other than 0H00'), and the next target time number currently set with 0H00'.
3. While the target time number whose time you want to set is displayed, hold down Ⓐ until the hour digit starts to flash on the display. The hour digit flashes because it is selected.
4. Press Ⓒ to change the selection in the following sequence.



5. Press Ⓓ to increase the selected number or Ⓑ to decrease it. Holding down either button changes the selection at high speed.
- To clear the currently displayed target time to 0H00' here, press Ⓑ and Ⓓ at the same time, until the watch beeps.

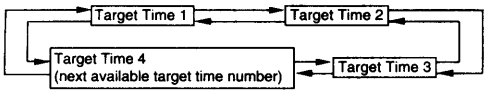
6. After you set the target times, press Ⓐ to return to the Target Time Mode.
- If you do not operate any button for a few minutes while a selection is flashing, the flashing stops and the watch goes back to the Target Time Mode automatically.
- Target times are automatically sorted so that the earliest time comes first.

Example

	Input	Sorted Data
Target Time 1	1H00'	0H30'
Target Time 2	1H30'	1H00'
Target Time 3	0H30'	1H30'
Target Time 4 (next available target time number)	———	0H00'

Checking the current target time settings

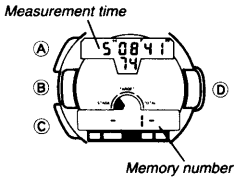
While in the Target Time Mode, press Ⓓ to scroll forward through the currently set target times. Pressing Ⓑ scrolls backward.
Example: When target times are set for target time numbers 1, 2, and 3.



To clear all target times

While in the Target Time Mode, hold down Ⓑ and Ⓓ until the watch beeps. This clears all target times to 0H00'.

DATA RECALL MODE

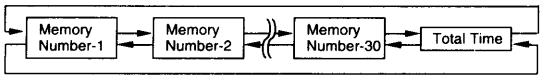


Use the Data Recall Mode to recall and delete stopwatch data from memory. Whenever you enter the Data Recall Mode from another mode, the oldest data in memory is displayed first. You can delete specific data or all data stored in memory. You can also view the total time in the Data Recall Mode.

> When memory becomes full, storing new data causes the oldest data in memory to be deleted. Be sure to make a written record of important data to guard against deleting it.

To recall data from memory

While in the Data Recall Mode, use Ⓑ and Ⓓ to display data items as illustrated below.



To delete specific data

1. Use Ⓑ and Ⓓ to display the data you want to delete.
2. Hold down Ⓐ until the watch beeps, indicating that the data is deleted.
- At this time, the deleted time is subtracted from the total time.

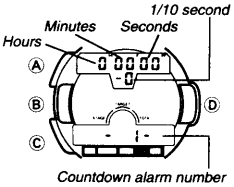
To delete all data

1. Use Ⓑ and Ⓓ to display the total elapsed time.
2. Hold down Ⓐ until the watch beeps, indicating that all data is deleted.
- At this time, the total time becomes zero.

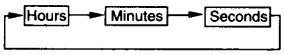
COUNTDOWN ALARM MODE

The Countdown Alarm Mode uses three timers (Timer 1, Timer 2 and Timer 3), which can be set within a range of 1 second to 24 hours. The countdown operation is performed in units of 1/10 of a second. When the countdown reaches zero, an alarm sounds for 10 seconds or until you press any button.

To set the countdown time



1. While in the Countdown Alarm Mode, use Ⓑ to select from among timer 1 through timer 3.
2. After you select a timer, hold down Ⓐ until the hours digit starts to flash on the display. The hours digit flashes because it is selected.
3. Press Ⓒ to change the selection in the following sequence.



3. Press Ⓓ to increase the selected number or Ⓑ to decrease it. Holding down either button changes the selection at high speed.
- To set the starting value of the countdown time to 24 hours, set "0H00'00" ".

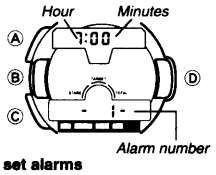
4. After you set the countdown time, press Ⓐ to return to the Countdown Alarm Mode.
- If you do not operate any button for a few minutes while a selection is flashing, the flashing stops and the watch goes back to the Countdown Alarm Mode automatically.

To use the countdown timer

1. Press Ⓓ while in the Countdown Alarm Mode to start the countdown timer.
2. Press Ⓓ again to stop the countdown timer.
- You can continue countdown timer operation by pressing Ⓓ.

3. Hold down Ⓓ until the countdown time is reset to its starting value.
- The countdown time is automatically reset to its starting value after the alarm stops.

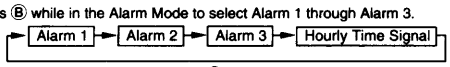
ALARM MODE



You can set three independent alarms.
When the Daily Alarm is switched 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 switched on, the watch beeps every hour on the hour.
Note that the Daily Alarm and the Hourly Time Signal operate based on the digital time setting.

To set alarms

1. Press Ⓑ while in the Alarm Mode to select Alarm 1 through Alarm 3.



2. After you select an alarm, hold down Ⓐ. The hour digits flash on the display because they are selected.
- At this time, the alarm is automatically switched on.

3. Press Ⓒ to change the selection in the following sequence.

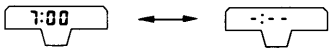


4. Press Ⓓ to increase the selected digits and Ⓑ to decrease them. Holding down either button changes the selection at high speed.
- The format (12-hour and 24-hour) of the alarm time matches the format you select for normal timekeeping.
- When setting the alarm time using the 12-hour format, take care to set the time correctly as morning or afternoon.

5. After you set the alarm time, press Ⓐ 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 on and off

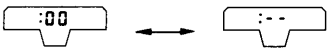
1. While in the Alarm Mode, use Ⓑ to select Alarm 1 through Alarm 3.
2. Press Ⓓ to switch the Daily Alarm on and off.



[ON] [OFF]

To switch the Hourly Time Signal on and off

1. While in the Alarm Mode, use Ⓑ to select the Hourly Time Signal.
2. Press Ⓓ to switch the Hourly Time Signal on and off.



[ON] [OFF]

To stop the alarm

Press Ⓐ, Ⓑ, Ⓒ or Ⓓ to stop the alarm after it starts to sound.

About the alarm

There are four different alarm sounds.

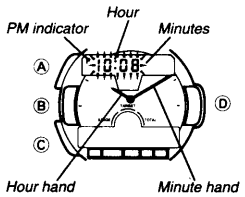
To test the alarm

Hold down Ⓓ while in the Alarm Mode to sound the alarm. Each time you test the alarm (by holding down Ⓓ) a different alarm sounds. The sound produced the last time you test the alarm is the one used for the alarm.

HAND SETTING MODE

When the time shown on the display does not match the analog setting, use this mode to correct this situation by changing the analog setting.

To set the analog time



1. Hold down Ⓐ while in the Hand Setting Mode until the currently set digital time starts to flash on the display.
- Even though the currently set digital time flashes on the display, the following steps change the analog timepiece setting without changing the digital time setting.

2. Press Ⓓ to advance the hands of the analog timepiece or Ⓑ to make them move back.
- Holding down either button moves the hands at high speed.
- The seconds are automatically synchronized with the digital display seconds.

3. After you set the analog time, press Ⓐ to return to the Hand Setting Mode.
- If you do not operate any button for a few minutes while digits are flashing, the flashing stops and the watch goes back to the Hand Setting Mode automatically.