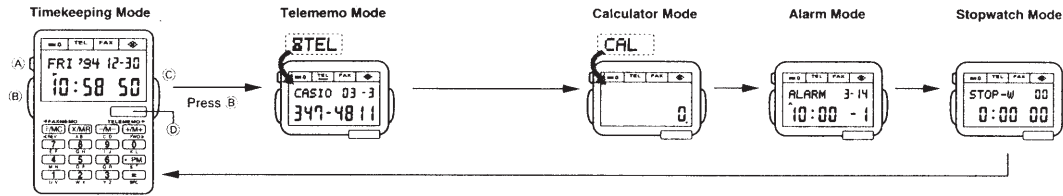


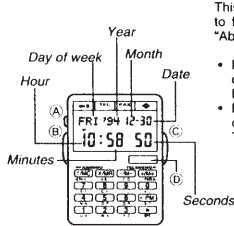
OPERATION CHART:MODULE QW-1253

GENERAL GUIDE

- Press **B** to change from mode to mode.
- In any mode, press **D** to illuminate the display for about two seconds. The watch can be set so that the backlight flashes whenever an alarm sounds.



TIMEKEEPING MODE

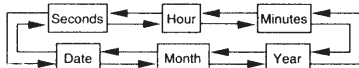


This watch is equipped with a backlight that can be set to flash whenever an alarm sounds. For details, see "About the backlight".

- Hold down **(C/MC)** while in the Timekeeping Mode to display the last fax number recalled in the Telememo Mode.
- Hold down **(M+)** while in the Timekeeping Mode to display the last telephone number recalled in the Telememo Mode.

To set the time and date

1. Hold down **(A)** 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 **(B)** or **(D)** to change the selection in the following sequence. Holding down either button changes the current selection at high speed.



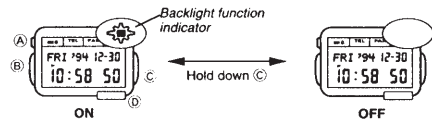
- While the selection is flashing, press **(C)** to switch between 12-hour and 24-hour formats.
3. While the seconds digits are selected (flashing), press **(0)** to reset the seconds to "00". If you press **(0)** while the seconds count is in the range of 30 to 59, the seconds are reset to "00" and 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 the keys on the key pad to input the numbers you want.
 - If you are using the 12-hour timekeeping format, the A (AM) or P (PM) indicator flashes along with the hour or minutes digit. Press **(C/MC)** to switch between AM and PM.
 - The date can be set within the range of January 1, 1990 to December 31, 2089. Inputting a year from 90 to 99 is set as 1990 to 1999, while an input from 00 to 89 is set as 2000 to 2089.
 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.
 - 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.

About the backlight

- When you switch the backlight function on, the backlight of the watch flashes whenever an alarm is sounding. For details of daily alarm, see "Alarm Mode".
- The backlight of this watch employs an electro-luminescent (EL) light, which loses its illuminating power after very long term use.

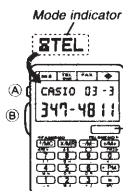
To switch the backlight function on and off

In the Timekeeping Mode, hold down **(C)** for one or two seconds to switch the backlight function on and off.



- The backlight function indicator remains on the display in all modes.
- Pressing **(D)** at any time illuminates the display for about two seconds, regardless of the backlight's on/off setting.
- The watch emits an audible sound whenever the display is illuminated. This is caused because the EL light vibrates slightly when lit. It does not indicate malfunction of the watch.

TELEMEMO MODE



You can store up to 30 sets of data in the Telememo Mode. Each set of data includes a name and telephone number, or a name and fax number. The name can be up to 8 characters long, the numbers 12 digits each. Data is automatically sorted into alphabetic order based on the name data. You can recall data by scrolling through a sorted list.

Notes

- If you do not operate any button for a few minutes while in the Telememo Mode, the watch automatically goes back to the Timekeeping Mode.

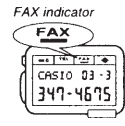
To switch between the telephone number and fax number displays

While in the Telememo Mode, press **(C)** to switch between the telephone number and fax number displays.

Telephone number display

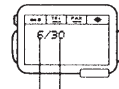


Fax number display



- The telephone number display includes a TEL indicator, while the fax number display includes a FAX indicator.
- The display shows the last phone or fax number you recalled when you enter the Telememo Mode.
- Pressing **(C)** switches between the telephone number and fax number displays for the same name. If there is no corresponding data for the name you are viewing, the new input display appears.
- Pressing **(C)** while the Telememo Mode's new input display is shown causes the last data you recalled to appear.

Checking Memory Usage



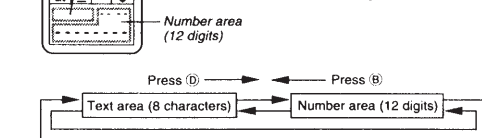
While in the Telememo Mode (telephone number display or fax number display), hold down **(=)** to view how much memory is used.

To scroll through data items

- While in the Telememo Mode (telephone number display or fax number display), press **(+M+)** to scroll forward through the stored data, or **(M/C)** to scroll back. Holding down either key scrolls through name and number (telephone or fax) data at high speed.
- To scroll through telephone number data, start from a telephone number display. To scroll through fax number data, start from a fax number display.

To input new Telememo data

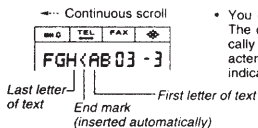
1. In the Telememo Mode, call up the display for the type of data you want to input (telephone number display or fax number display).
2. Use **(M/C)** or **(+M+)** to display the new input display.
 - If there is no Telememo data stored in memory yet, the New Input Display appears as soon as you enter the Telememo Mode.
 - If the message "FULL" appears on the display, it means that memory is full. To store more data, you will first have to delete some from memory. Use the procedure.
3. Press **(A)** to make the cursor appear on the display.
 - You can use **(B)** and **(D)** to move the cursor between characters to make changes and corrections.



4. While the cursor is in the text area, use the key pad to input characters.
 - Note that each key is assigned more than one character. Each press of a key sequentially changes the character at the cursor's position. When you press **(1)**, for example, the input character changes in the sequence: U → V → 1 → U → V, etc. The letters that a key inputs are printed below the key, while the number it inputs is printed on the key.
 - Use **(=)** to input spaces and **(C/PM)** to input periods.
 - Use **(-M-)** to input hyphens and **(XMR)** to input colons.
 - Make sure you distinguish between the letter "o" and zero. Inputting a zero for an "o" can affect automatic sorting.
5. When the character you want is displayed at the cursor position, press **(B)** to move the cursor to the right.
6. Repeat steps 3 and 4 to input the rest of the characters you want.
 - You can input up to 8 characters for name.
7. While the cursor is in the number area, use the key pad to input characters.
 - The number that a key inputs is printed on the key.
 - Use **(=)** to input spaces and **(-M-)** to input hyphens.
 - Each time you input a digit the cursor automatically moves to the right.
 - You can input up to 12 digits each for the phone and fax numbers.

- If you want to input another data item, press **(+M+)** to change to the new input display and repeat steps 4 through 7.
- 8. After inputting your data, press **(A)** to return to the Telememo Mode.
 - The message "SORT" appears on the display and stays there while data is being stored into alphabetical order. After the sort operation is complete, the watch returns to the display (telephone number or fax number) from which you started data input.

- If you do not operate any button for a few minutes while the cursor is flashing on the display, the watch automatically returns to the display (telephone number or fax number) from which you started data input.
- Note that you cannot switch between the fax number and telephone number displays while the cursor is flashing on the display. To switch displays, you must first press (A) to return to the normal Telememo Mode display.



- You can input up to 8 characters in the text area. The display shows only 6 characters, but automatically scrolls from right to left to show all of the characters that make up the text. The end of the text is indicated by an end mark.

To edit data stored in memory

- In the Telememo Mode, call up the display for the type of data you want to recall (telephone number display or fax number display).
- Use (MC) or (M+) to display the data item you want to edit.
- Press (A) and the cursor appears on the display.
- Use (B) and (D) to move the cursor to the character you want to change.
- Input the character you want to change to.
- Press (A) to exit the data input operation and return to the display (telephone number or fax number) from which you started data input.

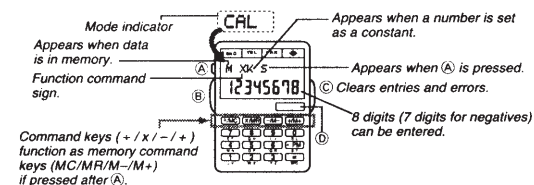
To delete a specific data

- In the Telememo Mode, call up the display for the type of data you want to delete (telephone number display or fax number display).
- Use (MC) or (M+) to display the data item you want to delete.
- Press (A) and the cursor appears on the display.
- Hold down (C) until the message "CLR" appears on the display and a beep sounds. This indicates that the data you selected is deleted.
- Press (A) to exit the data input operation and return to the display (telephone number or fax number) from which you started data deletion.

CALCULATOR MODE

When you are in the Calculator Mode, the key pad keys can be used to input arithmetic calculations and display their results.

- If you do not operate any button for 5 or 6 minutes while in the Calculator Mode, the watch goes back to the Timekeeping Mode automatically.
- After you perform an operation in Calculator mode, pressing (B) returns to the Timekeeping Mode.



- To clear a value you have just input, press (C).
- If you press the wrong command key, simply press the correct key before inputting anything else.
- If the result of a calculation exceeds 8 digits, an "E" (error) indicator appears on the display. To clear an error and continue with the calculation, press (C). To clear the entire calculation, press (C) twice.

Calculation Examples

Be sure to press the (C) button when starting calculations.

Basic Calculations

The +, -, x, and ÷ indicators appear on the display whenever you press the corresponding operation key.

Example	Operation	Display
12.3 + 74.90 = 3.7	C 12 (.) 3 (.) 74 (.) 90 (.) + (.) =	-3.7
(12 - 0.5) x 3 + 7 = 4.9285714	C 12 (-) 0.5 (.) 3 (+) 7 (=) x (=) =	4.9285714

Constant Calculations

Input the number you want to use as a constant, and then press one of the arithmetic keys twice. This causes the "K" indicator to appear on the display, indicating constant calculations.

Example	Operation	Display
10 x 2.4 = 17	C 10 (.) 2.4 (.) x (.) =	+ K 17.
12 x 2.4 = 19	12 (.) x (.) =	+ K 19.
78 - 12 = 66	C 78 (-) 12 (-) =	- K 66.
45 - 12 = 33	45 (-) (-) =	- K 33.
2 x 12 = 24	C 2 (.) 12 (.) x (.) =	x K 24.
5 x 12 = 60	5 (.) x (.) =	x K 60.
45 ÷ 9 = 5	C 45 (.) 9 (.) ÷ (.) =	+ K 5.
72 ÷ 9 = 8	72 (.) ÷ (.) =	+ K 8.
17 + 17 + 17 = 68	C 17 (.) (+) (+) (+) =	+ K 68.
(2.3)² = 27.984	C 2 (.) 3 (.) x (.) =	x K 27.984

Independent Memory

- M- : Subtracts the displayed value from independent memory.
- M+ : Adds the displayed value to independent memory.
- MC : Clears independent memory.
- MR : Recalls the value stored in independent memory.

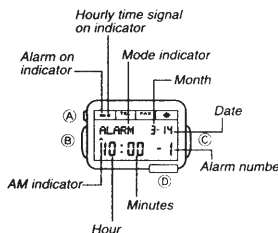
- To perform a memory operation, press (A) to shift the keypad ("S" indicator appears on display), and then press (M-), (M+), (MC) or (MR).
- The "M" indicator is shown on the display while there is a value stored in independent memory.

Example	Operation	Display
60 x 8 = 720	C 60 (.) 8 (.) x (.) =	M 720
-1.50 x 6 = 300	50 (.) 6 (.) x (.) =	M 300
20 x 3 = 60	20 (.) 3 (.) x (.) =	M 60
48	A (.) =	M 480

To switch the key input tone on and off

In the Calculator Mode, hold down (C) until the watch beeps. Each time you do this, the key input tone switches on or off. The key input confirmation tone on/off setting you make in the Calculator Mode is applied to all other modes, except the Stopwatch Mode.

ALARM MODE



You can set five independent alarms with hour, minutes, month, and date. When the alarm is on, the alarm sounds for 20 seconds at the preset time. Press (A), (C) or (D) to stop the alarm after it starts to sound. When the Hourly Time Signal is on, the watch beeps every hour on the hour.

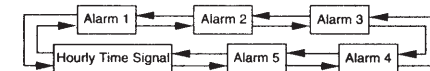
Alarm Types

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

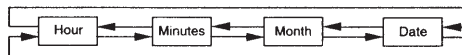
- To set a Daily alarm**
Set the hour and minutes for the alarm time. Set "--" for the month and "--" for the date (see step 4 under "To set alarms"). This type of setting causes the alarm to sound every day at the time you set.
- To set a Date alarm**
Set the month, date, hour and minutes for the alarm 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 date (see step 4 under "To set alarms"). 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 date, hour and minutes for the alarm time. Set "--" for the month (see step 4 under "To set alarms"). This type of setting causes the alarm to sound every month at the time you set, on the date you set.

To set alarms

- Press (MC) or (M+) while in the Alarm Mode to select Alarm 1 through Alarm 5.



- After you select an alarm, press (A). The hour digits flash on the display because they are selected.
- Press (B) or (D) to change the selection in the following sequence.

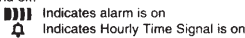


- Use the key pad to input the alarm time.
 - The cursor automatically moves to the right each time you input a number. You can also move the cursor using (B) and (D).
 - The 12-hour/24-hour format of the alarm time matches the format you select in the Timekeeping Mode.
 - If you are using the 12-hour timekeeping format, the A (AM) or P (PM) indicator flashes along with the hour or minutes digit. Press (C) to switch between AM and PM.
 - When setting the alarm time using the 12-hour format, take care to set the time correctly as morning (A) or afternoon (P).
 - To set an alarm that does not include a month (daily alarm, monthly alarm), set "--" for the month. Press (MC) until the "--" mark appears while the month digits are flashing.
 - To set an alarm that does not include date (daily alarm, 1-month alarm), set "--" for the date. Press (MD) until the "--" mark appears while the date digits are flashing.

- After you set the alarm, press (A) to return to the Alarm Mode.
 - At this time, the alarm is automatically switched on.
 - 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 an Alarm and Hourly Time Signal on and off

- In the Alarm Mode, press (MC) or (M+) to select an alarm or the Hourly Time Signal.
- When the alarm or Hourly Time Signal you want to is selected, press (C) to switch it on and off.

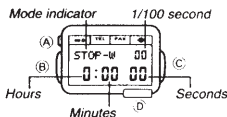


- If any alarm is on, the Alarm On Indicator is shown on the display when you change to another mode.

To test the alarm

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

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. Time is measured with 1/100 of a second accuracy.

