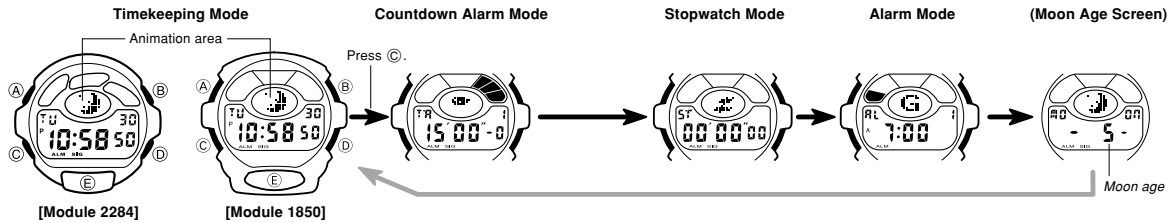


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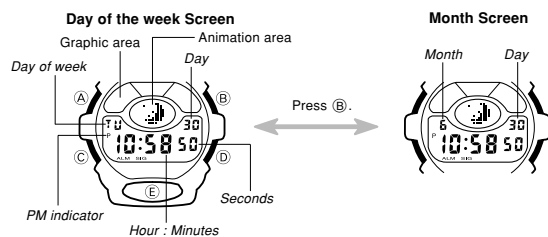
GENERAL GUIDE

- Press **(C)** to change from mode to mode.
- The animation area shows different animated characters and graphics, depending on the mode and the operation being performed.
- Pressing **(C)** while in the Alarm Mode causes the current date's moon age screen to appear for about one second, followed by the Timekeeping Mode screen.
- The operational procedures for Module 1850 and 2284 are identical. All of the illustrations in this manual show Module 1850.



TIMEKEEPING MODE

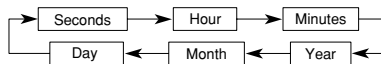
This section provides information on setting the time and using the backlight.



- In the Timekeeping Mode, press **(B)** to switch between the day of the week and month screens.
- In the Timekeeping Mode, press **(E)** to illuminate the display for about three seconds.
- In the Timekeeping Mode, press **(D)** to switch between the 12-hour and 24-hour formats.
- When the 12-hour format is selected, "p.m." times are indicated on the display by P, while "a.m." times are indicated by A. No indicators are used with the 24-hour format.
- The graphic area of the Timekeeping Mode screens shows patterns that indicate the passage of seconds.

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 flash because they are selected.
2. Press **(C)** to change the selection in the following sequence.



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 (besides seconds) are selected (flashing), press **(D)** to increase the number. Holding down **(D)** changes the current selection at high speed.
5. After you set the time and date, press **(A)** to return to the Timekeeping Mode.
- The day of the week and moon age are 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 selection is flashing, the flashing stops and the watch goes back to the Timekeeping Mode automatically.

Animation Area

-
- The diagram shows the Animation Area with labels for 'Star' and 'Moon phase'. The watch face displays the time and moon phase.
- The animation area of the Timekeeping Mode normally shows the current date's moon phase. Different animated figures appear at 00 and 30 seconds.
 - The moon phase shown in the animation area is that as viewed on the current date from a point in the northern hemisphere looking south. Note that the left-right orientation of the moon phase shown on the display may differ from that of the actual moon.
 - The left-right orientation of the moon phase is reversed when viewing from the southern hemisphere or from a point near the equator.
 - Note that the moon phase is based on the date as set in the Timekeeping Mode. The moon phase will not be correct if the date is not set correctly.
 - The stars in the animation area twinkle with each passing second.
 - The accuracy of moon age calculations by this watch is ± 2 days.
 - The following shows how the different moon phases are represented in the animation area.

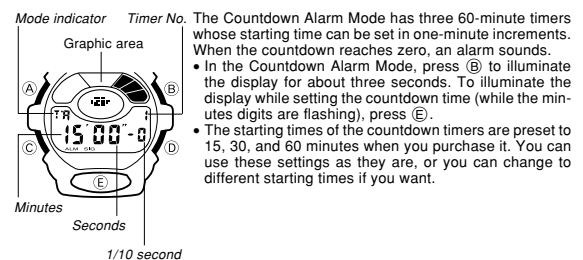
| | | | | | |
|-----------------|----------|-----------------------|------------------------|----------|-----------|
| Animation Area | | | | | |
| Moon Age | 0 and 1 | 2 to 5 | 6 to 9 | 10 to 13 | 14 to 16 |
| Moon Phase Name | New Moon | | First Quarter (waxing) | | Full Moon |
| Animation Area | | | | | |
| Moon Age | 17 to 20 | 21 to 24 | 25 to 28 | 29 | |
| Moon Phase Name | | Last Quarter (waning) | | New Moon | |

About the backlight

A backlight that uses an EL (electro-luminescent) panel causes the entire display to glow for easy reading in the dark. Depending on the mode, pressing **(E)** or **(B)** turns on the backlight for about three seconds. See the sections that cover each mode for information on whether you should press **(E)** or **(B)**.

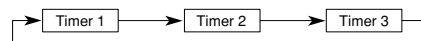
- The backlight of the watch employs an electro-luminescent (EL) light, which loses illuminating power after very long use.
- The illumination provided by the backlight may be hard to see when viewed under direct sunlight.
- The watch will emit an audible sound whenever the display is illuminated. This 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



To use a countdown timer

1. Press **(D)** while in the Countdown Alarm Mode to select the timer whose time you want to use.



- Pressing **(D)** does not change the timer selection if a countdown timer operation is currently in progress or is paused. You must stop the ongoing countdown operation before you can change to another timer.
- 2. Press **(E)** to start the countdown timer.
- When the countdown reaches zero, an alarm sounds for 10 seconds or until you stop the alarm by pressing any button. The countdown time is automatically reset to its starting value after the alarm stops.
- Press **(E)** while a countdown operation is in progress to pause it. Press **(E)** again to resume the countdown.
- To completely stop a countdown operation, first pause it (by pressing **(E)**), and then press **(D)**. This returns the countdown time to its starting value.

To change a countdown time

1. Press **(D)** while in the Countdown Alarm Mode to select the timer whose time you want to change.
2. After you select a timer, hold down **(A)** until the minutes digits start to flash on the display.
3. Press **(D)** to increase the minutes. Holding down **(D)** changes the minutes at high speed.
4. After you set the countdown time, press **(A)** to return to the Countdown Alarm Mode.
- If you do not operate any button for a few minutes while the minutes digits are flashing, the flashing stops and the watch goes back to the Countdown Alarm Mode automatically.

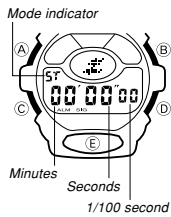
About countdown indicators

An audible beep, the EL backlight, and the graphic area on the display keep you informed about the progress of the countdown as noted in the following table.

| Indication | Start | 5'00"0 | Time Up |
|------------|----------|----------|------------|
| Beep | 1 second | 1 second | 10 seconds |
| Backlight | 1 second | 1 second | 2 seconds |

| Indication | More than 5 minutes | Less than 5 minutes | Time Up |
|--------------|---------------------|---------------------|---------|
| Graphic Area | | | |

STOPWATCH MODE



The Stopwatch Mode lets you measure elapsed time, split times, and two finishes. You also get Auto-Start function. The range of the stopwatch is 59 minutes, 59.99 seconds.

- In the Stopwatch Mode, press (D) to illuminate the display for about three seconds.

To measure elapsed time

- Press (E) to start the stopwatch.
- Press (E) to stop the stopwatch.
- You can resume the measurement operation by pressing (E) again.
- Press (D) to clear the stopwatch to all zeros.

To record split times

- Press (E) to start the stopwatch.
- Press (D) to display the timing up to that point. Stopwatch timing continues internally.
- Press (D) to clear the split time and to continue time measurement on the display.
- You can repeat steps 2 and 3 as many times as you want.
- Press (E) to stop the time measurement.
- Press (D) to clear the stopwatch to all zeros.

To time first and second place finishes

- Press (E) to start the stopwatch.
- Press (D) when the first finisher crosses the line, and record the time.
- Press (E) when the second finisher crosses the line.
- Press (D) to display the finishing time of the second finisher.
- Press (D) again to clear the stopwatch to all zeros.

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.

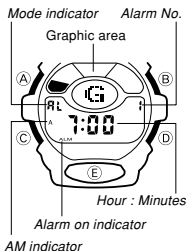
To use the Auto-Start function



- While the stopwatch display is showing all zeros (00:00.00) in the Stopwatch Mode, press (D).
- At this time the auto-start indicator appears on the display to indicate that auto-start is on. Press (D) again to turn auto-start off (indicated when the auto-start indicator is not on the display).
- Press (E) to start the countdown.
- Pressing (E) also causes the countdown time to appear on the display.
- When the countdown reaches zero, a tone sounds, the backlight illuminates the display, and a stopwatch timing operation starts automatically.

- To stop the Auto-Start countdown and return to the all-zeros display, press (D).
- Pressing (E) while the Auto-Start countdown is in progress immediately starts the stopwatch.

ALARM MODE



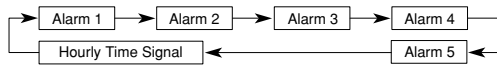
Five independent Daily Alarms can be set. Each alarm lets you set the hour and minutes. When the Daily Alarm is turned on, the alarm sounds for 20 seconds at the pre-set time each day. Press any button to stop the alarm after it starts to sound.

When the Hourly Time Signal is turned on, the watch beeps every hour on the hour.

- In the Alarm Mode (including alarm time setting), press (E) to illuminate the display for about three seconds.
- The graphic area in the Alarm Mode shows the current on/off status of each of the five alarms.

To set an alarm time

- Press (D) while in the Alarm Mode to select the alarm whose time you want to set.

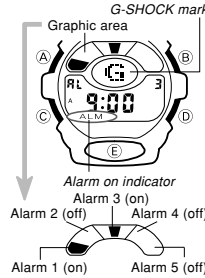


- After you select an alarm, hold down (A) until the hour digits start to flash on the display. The hour digits flash because they are selected.
- This operation automatically turns on the alarm.
- Press (C) to change the selection in the following sequence.



- Press (D) to increase the selected digits. Holding down (D) 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 a.m. (A indicator) or p.m. (P indicator).
- 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 turn an alarm and the Hourly Time Signal on and off



- In the Alarm Mode, press (D) to select an alarm or the Hourly Time Signal.
 - Press (A) to toggle the select item on and off.
- The indicators **ALM** and **⊞** appear on the display whenever an alarm is turned on.
 - The indicators **SIG** and **⊞** appear on the display whenever the Hourly Time Signal is turned on.
 - Indicators in the graphic area of the Alarm Mode show which alarms are turned on.
 - In other modes (besides the Alarm Mode), the **ALM** indicator remains on the display as long as at least one of the alarms is on, while the **SIG** indicator remains on the display while the Hourly Time Signal is on.

To test the alarm

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