MA1106-EA

Operation Guide 3274

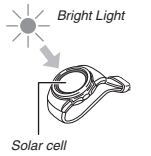
CASIO

Getting Acquainted

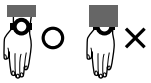
Congratulations upon your selection of this CASIO watch. To get the most out of your purchase, be sure to read this manual carefully.

Expose the watch to bright light to charge its capacitor before using it.
You can use this watch even as its capacitor is being charged by exposure to bright light.
- **Be sure to read "Power Supply" on page E-17 of this manual for important information you need to know when exposing the watch to bright light.**

Keep the watch exposed to bright light



The electricity generated by the solar cell of the watch is stored by a built-in capacitor. Leaving or using the watch where it is not exposed to light causes the capacitor to run down. Make sure the watch is exposed to light as much as possible.
- When you are not wearing the watch on your wrist, position the face so it is pointed at a source of bright light.
- You should try to keep the watch outside of your sleeve as much as possible. Charging is reduced significantly if the face is only partially covered.



About This Manual

- Button operations are indicated using the letters shown in the illustration.
- To ensure that this watch provides you with the years of service for which it is designed, be sure to carefully read and follow the instructions under "Operating Precautions" and "User Maintenance".

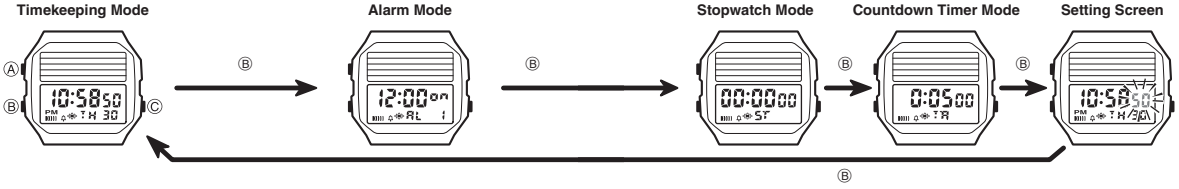
Contents

Procedure Lookup

The following is a handy reference list of all the operational procedures contained in this manual.

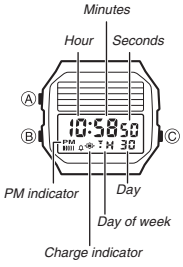
General Guide

- Press Ⓑ to change from mode to mode.
- Pressing Ⓑ after performing some operations in any mode returns to the Timekeeping Mode.



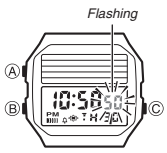
- If you do not perform any operation for a few minutes in the Alarm Mode or Setting Screen, the watch automatically reverts to the Timekeeping Mode.

Timekeeping



In the Timekeeping Mode, press Ⓒ to switch between the 12-hour and 24-hour formats.
- When the 12-hour format is selected, the indicator **PM** appears on the display to indicate "p.m." times. There is no indicator for "a.m." times.
- When the 24-hour format is selected, the indicator **24H** appears on the display.
- A charge indicator appears on the display of this watch when charging is required.

To set the time and date



1. Press Ⓑ four times in the Timekeeping Mode to display the setting screen.
2. Press Ⓐ to move 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 29, the minutes count is unchanged.
4. While any other setting is selected (flashing), press Ⓒ to increase the number.
   - Holding down Ⓒ changes the setting at high speed.
5. After you set the time and date, press Ⓑ to return to the Timekeeping Mode.

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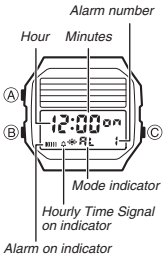
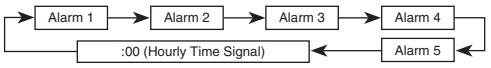
Alarms



You can set five independent Daily Alarms. When an alarm is turned on, the alarm tone sounds when the alarm time is reached.
You can turn on an Hourly Time Signal that causes the watch to beep twice every hour on the hour.
- There are six screens in the Alarm Mode. Five are for daily alarms (indicated by numbers from 1 through 5), and one is for the Hourly Time Signal (indicated by 🔔).
- All of the operations in this section are performed in the Alarm Mode, which you enter by pressing Ⓑ (page E-6).

To set an alarm time

1. In the Alarm Mode, use Ⓒ to scroll through the alarm screens until the one whose time you want to set is displayed.



   - To set an alarm, display one of the screens indicated by an alarm number from 1 through 5.
2. After you select an alarm, press Ⓐ to enter the setting screen. The hour digits flash because they are selected.
   - This operation turns on the alarm automatically.
3. After the hour setting is the way you want, press Ⓐ to move the flashing to the minutes.
4. While a setting is flashing, use Ⓒ (+) to change it.
   - When setting the alarm time using the 12-hour format, take care to set the time correctly as a.m. or p.m. (**PM** indicator).

5. When the minutes setting is the way you want, press Ⓐ. This will cause "**ON**" to flash on the display.
   - Press Ⓒ to toggle the alarm setting between on and off (- -).
6. Press Ⓐ to exit the setting screen.

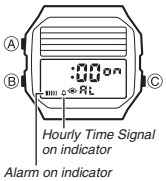
Alarm Operation

The alarm sounds at the preset time for about 20 seconds, regardless of the mode the watch is in.
- To stop the alarm tone after it starts to sound, press any button.

To test the alarm

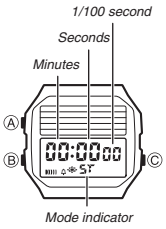
In the Alarm Mode, hold down Ⓒ to sound the alarm.

To turn the Hourly Time Signal on and off



1. In the Alarm Mode, use Ⓒ to select the Hourly Time Signal (:00).
2. Press Ⓐ, which will cause the flashing display to change to "**ON**". This is the setting mode.
   - Entering the setting mode automatically turns on the Hourly Time Signal.
3. Press Ⓒ to toggle the Hourly Time Signal between on and off (- -).
4. Press Ⓐ to exit the setting screen.

Stopwatch



The Stopwatch Mode lets you measure elapsed time, split times, and two finishes. The range of the stopwatch is 59 minutes, 59.99 seconds.

To measure times with the stopwatch

Elapsed time measurement

Ⓒ Start → Ⓒ Stop → Ⓒ Re-start → Ⓒ Stop → Ⓐ Clear

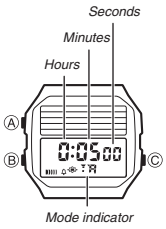
Split time measurement

Ⓒ Start → Ⓐ Split → Ⓐ Split release → Ⓒ Stop → Ⓐ Clear

Split time and 1st-2nd place times

Ⓒ Start → Ⓐ Split (First runner finishes. Display time of first runner.) → Ⓒ Stop (Second runner finishes.) → Ⓐ Split release (Display time of second runner.) → Ⓐ Clear

Countdown Timer



The countdown timer can be set within a range of one minute to 24 hours. An alarm sounds when the countdown reaches zero.
- The countdown operation continues even if you exit the Countdown Timer Mode.
- All of the operations in this section are performed in the Countdown Timer Mode, which you enter by pressing Ⓑ (page E-6).

To use the countdown timer

Press Ⓒ while in the Countdown Timer Mode to start the countdown timer.
- When the end of the countdown is reached, the alarm sounds for 10 seconds or until you stop it by pressing any button. The countdown time is reset to its starting value automatically after the alarm stops.

- Press Ⓒ while a countdown operation is in progress to pause it. Press Ⓒ again to resume the countdown.
- To stop a countdown operation completely, first pause it (by pressing Ⓒ), and then press Ⓐ. This returns the countdown time to its starting value.

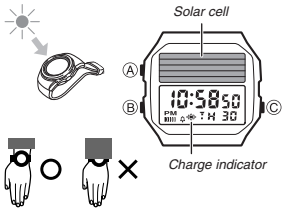
To set the countdown start time

1. In the Countdown Timer Mode, press Ⓐ until the hours of the countdown start time start to flash. This is the setting screen.
2. After the hour setting is the way you want, press Ⓐ to move the flashing to the minutes.
3. While a setting is flashing, use Ⓒ (+) to change it.
   - To set the starting value of the countdown time to 24 hours, set 0:00.
4. Press Ⓐ to exit the setting screen.

Power Supply

This watch works by light energy, so no battery is necessary. Light energy is converted into electric energy by the solar cell and stored by the capacitor. The illustration shown below shows how you should position the watch for charging.

Example: Orient the watch so its face is pointing at a light source.
- The illustration shows how to position a watch with a resin band.
- Note that charging efficiency drops when any part of the solar cell is blocked by clothing, etc.
- You should try to keep the watch outside of your sleeve as much as possible. Charging is reduced significantly if the face is only partially covered.



Important!
- Storing the watch for long periods in an area where there is no light or wearing it in such a way that it is blocked from exposure to light can cause capacitor power to run down. Make sure that the watch is exposed to bright light whenever possible.
- This watch uses a special capacitor to store power produced by the solar cell, so regular capacitor replacement is not required. However, after very long use, the capacitor may lose its ability to achieve a full charge. If you experience problems getting the capacitor to charge fully, contact your dealer or CASIO distributor about having it replaced.
- Never try to remove or replace the watch's capacitor yourself. Use of the wrong type of capacitor can damage the watch.

Charging Precautions

Certain charging conditions can cause the watch to become very hot. Avoid leaving the watch in the areas described below whenever charging its capacitor. Also note that allowing the watch to become very hot can cause its liquid crystal display to black out. The appearance of the LCD should become normal again when the watch returns to a lower temperature.

Warning!
Leaving the watch in bright light to charge its capacitor can cause it to become quite hot. Take care when handling the watch to avoid burn injury.
The watch can become particularly hot when exposed to the following conditions for long periods.
- On the dashboard of a car parked in direct sunlight
- Too close to an incandescent lamp
- Under direct sunlight

Charging light

- The watch will start to work within about three seconds after it is exposed to light (such as indoor fluorescent lighting). Set the time and calendar at this time.
- Charge indicator "CHARGE" appears on the display when the capacitor charge level is low.
- If you continue to use the watch without exposing it to light after "CHARGE" appear, the watch will stop functioning after about three days.
- Take steps to charge the watch's capacitor as soon as possible after "CHARGE" appears. See "Recovery Times" (page E-21) for details.
- The daily alarm, Hourly Time Signal, and other tones will not sound while "CHARGE" is on the display. Also, display figures may become dim.

Charging Guide

After a full charge, timekeeping remains enabled for up to about 14 days.

- The following table shows the amount of time the watch needs to be exposed to light each day in order to generate enough power for normal daily operations.

Exposure Level (Brightness)	Approximate Exposure Time
Outdoor sunlight (50,000 lux)	5 minutes
Window sunlight (10,000 lux)	24 minutes
Window sunlight on cloudy day (5,000 lux)	48 minutes
Indoor fluorescent lighting (500 lux)	8 hours

- For details about the capacitor operating time and daily operating conditions, see the "Power Supply" section of the Specifications on page E-22.
- Stable operation is promoted by frequent charging.

Recovery Times

The table below shows the amount exposure that is required to take the charge from one level to the next.

Exposure Level (Brightness)	Approximate Exposure Time	
	→ From function stoppage until "⊕" disappears	→ To full charge
Outdoor sunlight (50,000 lux)	1 hour and a half	1 hour
Window sunlight (10,000 lux)	7 hours	5 hours
Window sunlight on cloudy day (5,000 lux)	14 hours	9 hours
Indoor fluorescent lighting (500 lux)	140 hours	90 hours

- The above exposure time values are all for reference only. Actual required exposure times depend on lighting conditions.

Specifications

Accuracy at normal temperature: ±30 seconds a month

Timekeeping: Hour, minutes, seconds, p.m. (PM), day, day of the week
Time system: Switchable between 12-hour and 24-hour formats
Calendar system: Auto-calendar set at 28 days for February

Alarm: 5 Daily Alarms; Hourly Time Signal

Stopwatch: Measuring unit: 1/100 second
Measuring capacity: 59 minutes, 59.99 seconds
Measuring modes: Elapsed time, split time and two finishes

Countdown Timer
Measuring unit: 1 second
Input range: 1 minute to 24 hours (1-minute increments and 1-hour increments)

Power Supply: Solar cell and a coin type capacitor
Approximate capacitor operating time: 14 days (from full charge to stopping of watch operation) under the following conditions:
- Watch not exposed to light
- Internal timekeeping
- 20 seconds of alarm operation per day

12 days (from full charge to stopping of watch operation) under the following conditions:
- 100 seconds of alarm operation per day