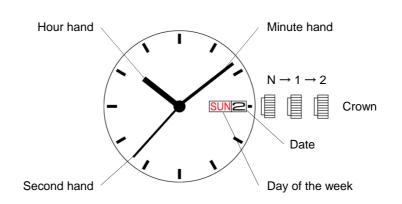
Instruction of Watch Movement



Cal. VS43A

Display



SOLAR SERIES

- 3 hands / Day / Date

Crown operation

	Crown position				
	N : normal	1 : 1st click	2 : 2nd click		
Crown	Free	 Turn counterclockwise for date change Turn clockwise for day of the week change 	Time setting		

How to set time

- (1) Pull the crown out to the 2nd click position when the second hand is at the 12 o'clock position.
- (2) Turn the crown to set the hour and minute hands.
 Take a.m./p.m. into consideration when setting the hour and minute hands to the desired time.
 When setting the minute hand, advance it 4 to 5 minutes ahead of the desired time and then turn it back to the exact time.
- (3) Push the crown back to the normal position.

How to set date and day of the week

- (1) Pull the crown out to the 1st click position.
- (2) Turn the crown to set the date and the day of the week.
- Do not set the date and day of the week between 9:00 p.m. and 4:00 a.m..
- (3) Push the crown back to the normal position.
- Tips: When the date and day of the week changes during daytime, it happens when a.m./p.m. is wrongly set. Advance the hour hand by 12 hours.

Features of the solar watch

This watch is a solar-powered watch containing a solar cell underneath the dial to convert any form of light into "electrical energy" and store the power in a secondary battery.

Unlike conventional quartz watches, this watch does not use a silver oxide battery, thus eliminating the need for battery replacement.

Running time

Expected running time from full charge to stoppage will be around 6 months.

Quick start function

It start running within a few seconds after exposure to a light more than 1000 Lx. (Fluorescent lamp 30W/ 70cm)

Over charge prevent function

If the secondary battery is charged more than predetermined voltage, over charge prevent function is operated to prevent the secondary battery deterioration and breakage.

Power depletion warning function

When the energy stored in the secondary battery is reduced to an extremely low level, the second hand starts moving at two-second intervals instead of the normal one-second intervals. In that case, recharge the watch as soon as possible by exposing it to light. Otherwise, the watch may stop operating in about 1 day.

How to charge and start the watch

Charging the watch

When you start the watch or when the energy remaining in the secondary battery is very low, charge it sufficiently by exposing the watch to light.

(1) Expose the watch to sunlight or strong artificial light (of more than 1,000 Lx).

When the watch has stopped operating, the second hand will start moving at two-second intervals. - The second hand immediately starts moving at two-second intervals, but the energy stored in the secondary

- battery is not yet sufficient. If the watch is turned away from the light, it may stop operating. It is not necessary to charge the watch fully. It is important, however, to charge the watch sufficiently, especially in the case of initial charging.
- (2) Keep the watch exposed to the light until the second hand moves at one-second intervals.
- (3) When the watch is charged after it has completely stopped, set the date and time before wearing the watch.
- Caution

When charging the watch, do not place it too close to fluorescent lamp or other light sources as the watch temperature will become extremely high, causing damage to the parts inside the watch.

- To prevent energy depletion
 - · Avoid covering the watch face with your clothing while wearing it.
 - When the watch is not in use, leave it in a brightly lit place for as long as possible. Make sure that the watch temperature does not exceed 50°C.

Guidelines for charging time

The below table provides only general guidelines.

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Illumination (Lx)	Source of light	Environment	A (Approx. Hours)	B (*) (Approx. Hours)	C (Approx. Minutes)	
700	A fluoroccont lomp	Inside the office		33	47	
3,000	A fluorescent lamp	30W 20cm	47	8	15	
10,000	Suplight	Cloudy	13	2	4	
100,000	Sunlight	Fine weather	5	42 minutes	1	

(*) The values in this column represent the charging times required until the second hand moves constantly at one-second intervals after the watch starts operating with the second hand moving at two-second intervals.

Even if the watch is not charged for the time specified in the column, the second hand may temporarily move at one-second intervals. But it will soon resume moving at two-second intervals; therefore, charge the watch for more than the specified period.