



WATCHES
WITH SOLAR MOVEMENTS

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WATCHES WITH VS57 MOVEMENT

Movement produced by S.Epson, Japan

Solar-powered watches contain a solar cell underneath the dial to convert any form of light into electrical energy and store the power in a secondary battery.

FEATURES:

Eliminating the need for battery replacement.

- Unlike conventional quartz watches, this watch does not use a silver oxide battery, so battery replacement is not necessary.

Running time.

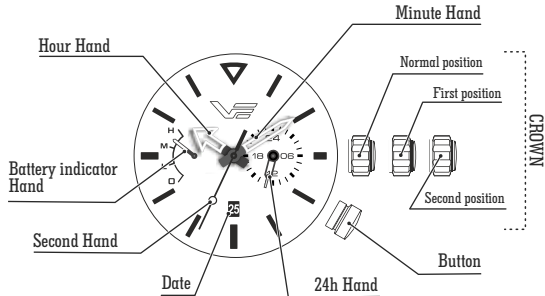
- Expected running time from full charge to stoppage is around 4 months.

Battery indicator:

- Always display the power storage level.

Power depletion warning function.

- The two-second intervals movement of the second hand is a signal of energy depletion. The watch still can work in a such condition within approximately 10 days.



Model with VS57A solar movement

! Unscrew crown before operate and screw up after.

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How to set the time:

- Unscrew and pull the crown out to the 2nd click position when the second hand is at the 12 o'clock position.
- Turn the crown to set the hour and minute hands. The 24 hour hand moves correspondingly with the hour hand. Check that the 24 hour hand is set correctly (take a.m./p.m. into consideration).
- Push the crown back to the normal position and screw it down.

How to set the date:

- Unscrew and pull the crown out to the 1st click position.
- Turn the crown anti-clockwise to set the date.
- Push the crown back to the normal position and screw it down.

How to charge and start the watch.

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

- When the watch has stopped operating, the second hand will start moving at two-second intervals, but the energy stored in the secondary battery is not sufficient yet. Expose the watch to sunlight or strong artificial light (of more than 1,000 lx). If the watch is turned away from the light before sufficient charging, it may stop operating again.
- Keep the watch exposed to the light until the second hand moves at one-second intervals.
- When the watch is charged after it has completely stopped, set the date and time before wearing the watch. The watch contains a solar cell underneath the dial to convert any form of light into electrical energy and store the power in a secondary battery.

Caution: Do not place the watch too close to the 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 lit place.

Make sure that the watch temperature does not exceed 50°C.



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Guidelines for charging time

The below table provides only general guidelines:

Illumination, lx	Source of light	Environment	A (Approx. Hours)	B (Approx. Hours)	C (Approx. Minutes)
700	A fluorescent lamp	Inside the office	—	18	69
3.000		30W 20cm	52	4	15
10.000	Sunlight	Cloudy	16	1.5	5
100.000		Fine weather	5.3	0.5	2

Condition A: Time required for full charge

Condition B: Time required for steady operation


Condition C: Time required for 1 day's charge

(*) The values in this column represent the charging times required until the second hand moves constantly at one-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.

Guidelines for battery indicator

The battery indicator hand always displays the power storage level.

Level	High	Medium	Low	0 / Zero
Display				
Running time (approximation)	90+ days	30-90 days	30 days or less	Notice for charging

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How to adjust the battery Indicator

If the battery indicator hand is misaligned (i.e. is off the correct position), follow the steps below to correct it:

1. Unscrew the crown and pull it out to the 2nd position.

2. Press the button.

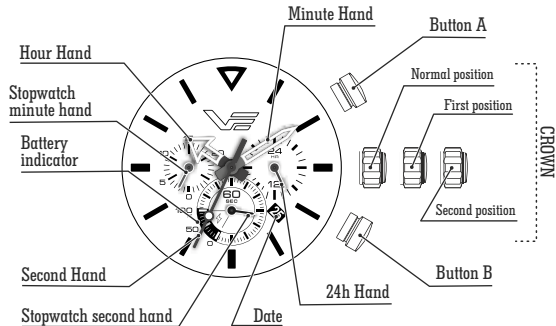
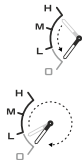
The battery indicator hand moves to the "0" direction.

3. Press the button repeatedly to move the battery indicator hand clockwise up to "0" position.

(*) For fast battery indicator hand moving press and hold the button for more than 2 seconds.

To stop the hand, just release the button.

4. Push the crown back to the normal position – the battery indicator hand returns the current level.



Model with VR42B solar movement

! Unscrew crown before operate and screw up after.

WATCHES WITH VR42 MOVEMENT

Movement produced by S.Epson, Japan

See the VR57 movement Manual for:

- How to set time and date;
- Features of the solar watch;
- How to charge and start the watch;
- Guidelines for charging time.



How to use stopwatch function:

- The stopwatch can measure up to 30 min in one-second increment.
- When the measurement reaches 30 minutes, the stopwatch automatically stops counting.

(*) Before using the stopwatch, be sure to check that the crown is set at the normal position and that the stopwatch hands are reset to the "0" position.

Stopwatch hands position adjustment:

If the stopwatch hands are not in the "0" position, follow the procedures below:




1. Pull the crown out to the 2nd click position.
When the stopwatch is measuring, if the crown is pulled out to the 2nd click position, it will be automatically reset.
2. Press the button A or B to set the stopwatch hands to the "0" position.
The stopwatch hands move quickly if the button A or B is kept pressed.
3. Push the crown back to the normal position.

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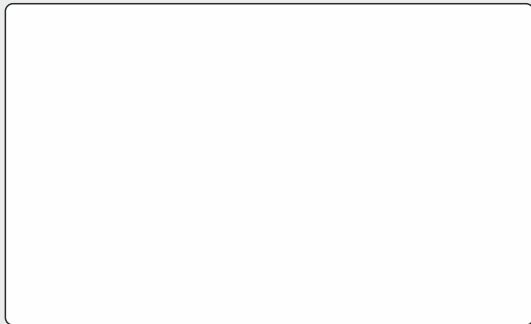
Guidelines for battery indicator:

Press button B more than 1 second. The remaining battery capacity is indicated within 2 seconds. Then it returns automatically.

Level	High	Medium	Low
Display	 Position : 45 seconds	 Position : 40 seconds	 Position : 35 seconds
Running time (approximation)	90+ days	30-90 days	30 days or less

INTERNATIONAL GUARANTEE

AGENCY



Production Number

(Model Number)

Date of Purchase

(Store's stamp)

Seller

(Name)

(Signature)

Repair Coupon Nr.

Model Nr.

Date

Signature

Repair Coupon Nr.

Model Nr.

Date

Signature

Repair Coupon Nr.

Model Nr.

Date

Signature

Repair Coupon Nr.

Model Nr.

Date

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