

User's Guide Cal.VS42(WJ)

Thank you for reading this user's guide.

This user's guide describes watches with Caliber No. VS42 (WJ).

To ensure prolonged use and optimum performance, please read this User's Guide carefully and use the watch correctly.

About the User's Guide

How to Use the User's Guide

Left menu

Click on the item you want to see to jump to the page that explains the corresponding content.

Printing




Display the page you want to print and print from the print menu of the browser you are using.

TIP

You cannot print the entire User's Guide at once.

Key to Displayed Symbols

The areas marked with the following symbols describe things that must be observed in order to prevent injury to the user and others, and to avoid property damage.

Symbol	Description
 WARNING	Indicates improper handling that may result in death or serious injury.
 CAUTION	Indicates improper handling that may result in personal injury or property damage.
	Gives supplementary explanations and reference information.

Precautions

When using the product, some points must be observed in order to protect the product and ensure safety of the user.

Check the link below.

> ["For Safe Use"](#) 

Some points should be observed to ensure prolonged use of your purchased product.

Check the link below.

> ["Maintenance Guide"](#) 

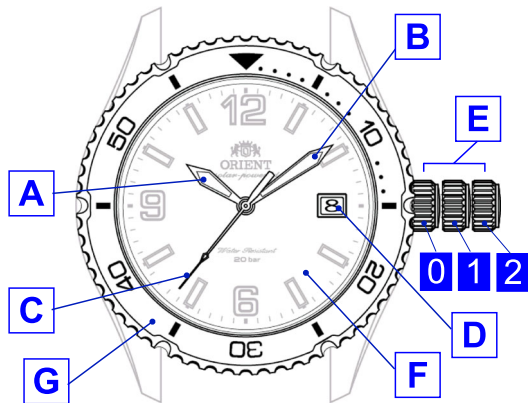
About the Product

Features

This product is a solar-charged watch. (Solar-Powered/Light Charge)

- The light received by the solar cell is converted into electrical energy to power the watch.
- This watch shows the date in addition to showing the time (hour, minute, and second).

Names and Functions of Individual Component Parts



A	Hour hand
B	Minute hand
C	Second hand
D	Date
E	Crown ^{*1}
	0 0 click: Normal position
	1 1st click: Date setting
	2 2nd click: Time setting (second hand halt mechanism)
F	Dial
G	Rotating bezel ^{*2}

*1: Some models have a screw-down crown.
> ["How to Use the Screw-Down Crown"](#)

*2: See the following for the method of use.
> ["How to Measure the Elapsed Time"](#)

*: The solar cell is located below the dial.

*: The design of the dial and position of the crown may differ depending on the model.

Specifications

Drive system	Stepper motor
Crystal frequency	32,768 Hz (oscillations per second)
Wearing accuracy (average monthly deviation)	±20 seconds ^{*3}
Watch display	Hours, minutes, and seconds (hand movement in 1-second intervals)/date
Additional functions	Energy depletion warning function Overcharging prevention mechanism
Operating temperature range	-5°C to +50°C
Batteries used	1 secondary battery
Operation duration from full charge	Approx. 12 months
Water resistance	^{*4}

*3: When worn on the arm at 5°C to 35°C.

*4: The water resistance performance is indicated on the case back.

A watch with WATER RESISTANT indicated on it has enhanced water resistance performance.

> ["For Safe Use > Precautions Regarding Water Resistance"](#)

*: Product specifications are subject to change without notice for improvement.

To Maintain Stable Operation

Be sure to expose the dial to light (recharge the watch) on a regular basis.

This product is powered by solar charging.

> ["Charging"](#)

TIP

- Leaving the watch for a long time in a dark place where it is not charging may result in a low energy level.
- The energy level is low if the second hand does not move in continuous 1-second intervals. Adequately charge the watch.

> ["Checking the Energy Level"](#)

How to Use the Screw-Down Crown

Some models have a screw-down crown.

- The crown can be locked (fixed) by screwing it into the case.

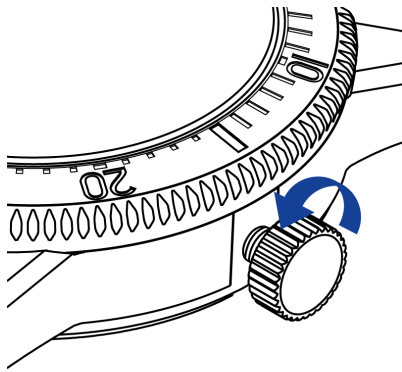
Locking the crown prevents malfunction and improves water resistance.

- Unlock the crown before setting the time, or setting the calendar, or reference position adjustment, or system reset.

After the required operations are complete, be sure to lock the crown again.

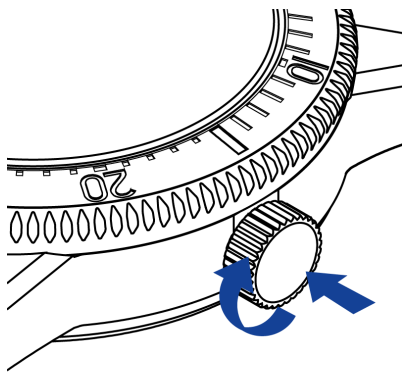
(Unlocking)

Turn the crown counterclockwise to unscrew it.



(Locking)

Push in the crown and turn it clockwise to fully screw it in.



Charging

Charging Method

- The watch charges when light hits the dial.
 - To operate the watch when it is stopped or if the battery level is low, charge the watch in accordance with the estimated required charging time.
 - There may be insufficient energy when you start using the watch. It does not have to be fully charged but make sure that it is adequately charged.
 - If the second hand moves in 2-second intervals, charging is insufficient. Charge the battery until the second hand moves continuously in 1-second intervals.
- > ["Energy Depletion Warning Function"](#)

CAUTION

Take care not let the body of the watch get too hot during charging.

> ["For Safe Use > Precautions Regarding Quartz Watches > Secondary Battery"](#) 

*: The figures in the table are for reference only.
The actual required charging time may differ depending on the model.

Estimated Required Charging Time

Illuminance (lx)	Light source	Environment	Required charging time		
			Full charge ^{*1}	Continuous 1-second interval movement ^{*2}	One day's operation
700	Fluorescent light	General office	-	Approx. 25 hours	Approx. 110 minutes
3,000	Fluorescent light	30 W, 20 cm	Approx. 120 hours	Approx. 6 hours	Approx. 30 minutes
10,000	Sunlight	Cloudy	Approx. 35 hours	Approx. 2 hours	Approx. 10 minutes
100,000	Sunlight	Clear sky	Approx. 9 hours	Approx. 24 minutes	Approx. 2 minutes

*1: Charging for longer than the required time for full charge will not damage the watch.
The overcharging prevention function operates automatically.

*2: This is the time required to charge the watch from 2-second interval movement to continuous 1-second interval movement when a stopped watch is exposed to light.
If the charging time is too short, the second hand starts moving in 1-second intervals but may immediately revert to 2-second interval movements.
Charge in accordance with the estimated required charging time.

Checking the Energy Level

Energy Depletion Warning Function

The second hand moves in 2-second intervals when the energy level is low.

- When the second hand moves like this, the watch is likely to stop within about one day. Adequately charge in accordance with the estimated required charging time.

> ["Estimated Required Charging Time"](#)

TIP

Two-second interval movement indicates movement of the second hand in 2-second (2-unit) intervals.

How to Set the Time and Calendar

i TIP

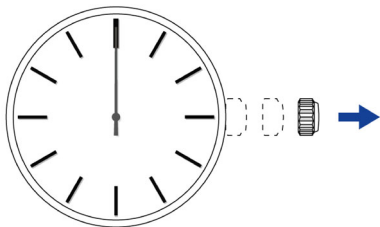
Some models have a screw-down crown.

- Unlock the crown before setting the time or the calendar.
- After the required operations are complete, be sure to lock the crown again.

> ["How to Use the Screw-Down Crown"](#)

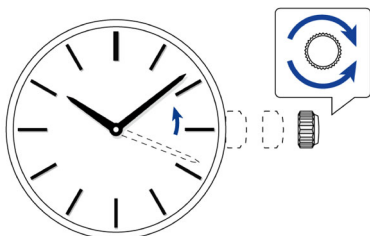
How to Set the Time

1. Pull out the crown to the 2nd click position when the second hand reaches the 60 seconds position.



The second hand stops.

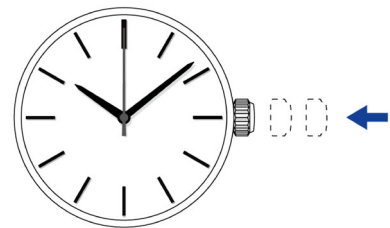
2. Turn the crown to set the current time.



i TIP

- When setting the time on a watch with a calendar, take care not to mistake a.m. and p.m.
Turn the crown in the direction that the hands move. It is "a.m." when the date switches.
- To set the time accurately, advance the minute hand by about 4 or 5 minutes and then return it to the current time.

3. Push the crown in to the normal (0 click) position while listening to a time signal.



How to Set the Calendar

! CAUTION

Do not set the calendar while the hands are in the time range below.

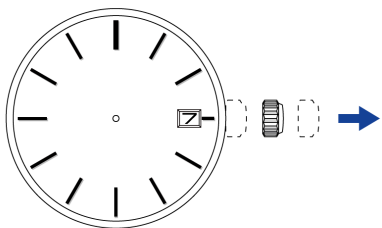
- 9:00 p.m. to 1:00 a.m.

The calendar will switch in this time range.

If the calendar is set in this condition, the calendar may not switch the next day.

If you want to set the calendar, move the hands out of this time range.

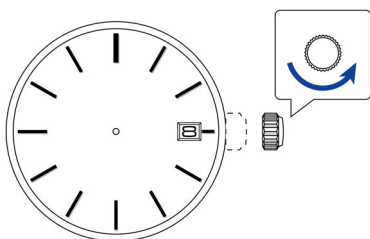
- 1.** Pull out the crown to the 1st click position.



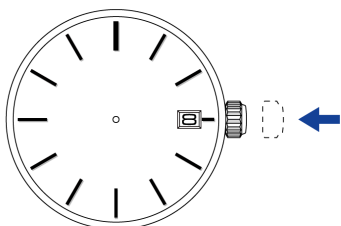
i TIP

The crown of this watch can be pulled out to two click positions.

- 2.** Turn the crown counterclockwise to set the date.



- 3.** Push the crown in to the normal (0 click) position.



i Date correction at end of month

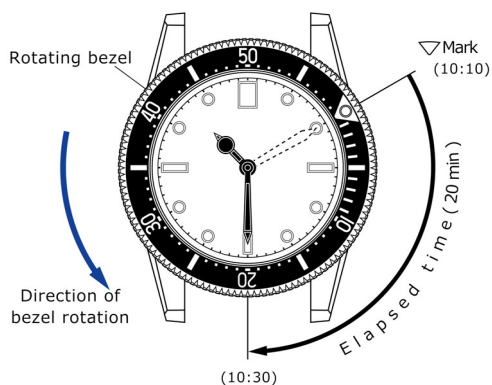
The date must be corrected for short months. Set the date to the "1st" when the date becomes the 1st of the next month. (A short month is a month with fewer than 31 days.)

How to Measure the Elapsed Time

Using the Rotating Bezel

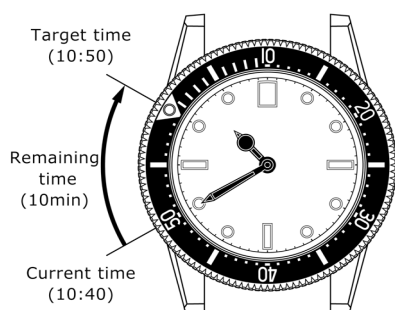
Some models have a rotating bezel.

The rotating bezel can be used to determine the elapsed time.



- The rotating bezel displays 60 minutes per rotation.
Align the ▽ mark with the minute hand. After a certain time passes, the elapsed time can be read from the number indicated by the minute hand on the rotating bezel.
- In the case shown in the diagram, the ▽ mark was aligned with 10:10, indicating that 20 minutes have elapsed since then.

You can also check the time remaining (minutes) by aligning the ▽ mark with the target time.



- In the case shown in the diagram, the ▽ mark was aligned with 10:50, indicating that the time remaining is 10 minutes.

*: Some models are equipped with a mechanism to prevent the rotating bezel from rotating in the reverse direction.

*: The actual appearance of the ▽ mark differs depending on the model.

Luminous Light

Some models use luminous light.

Luminous light is a safe luminous paint that uses no radioactive substances.

- It stores light from sunlight and artificial lighting and re-emits it.
- Luminous light on the hands and dial lets you tell the time in dark places.

TIP

As the paint re-emits stored light, it becomes dimmer over time.

Depending on the amount of light stored in the paint, the emitted light may be weak or short-lived.

Troubleshooting

Troubleshooting

Symptom	Possible cause	Remedy and reference
<ul style="list-style-type: none">· Second hand has stopped· Second hand moves in 2-second intervals	Energy level is low	Charge the battery > "Charging Method"
Second hand does not move continuously in 1-second intervals after charging	<ul style="list-style-type: none">· Incident light is too weak· Charging time is too short	Charge in accordance with the estimated required charging time > "Estimated Required Charging Time"

*: If the measures above do not solve the problem or if you are experiencing a different problem, contact the customer service-network.

> ["service-network"](#) 

Strap Replacement

For details, check the link below.

> ["Strap Replacement"](#) 

Reese's Law in USA

WARNING



This product contains a non-replaceable button or coin battery.
Please be sure to read before use.

- a. When disposing of this product, do not remove the battery and recycle or dispose of it according to local regulations. Please keep your discarded watch out of the reach of children. Do not dispose of watches or the batteries contained in them in household trash or incinerate them.
- b. Even a used battery may cause serious injury or death.
- c. Call a local poison control center for treatment information.
- d. The battery used in this product is not compatible with commercially available batteries. For battery replacement, please contact your store of purchase, our customer service center, or one of our listed overseas service centers for repairs of ORIENT products.
- e. The voltage of the battery used in this product is 1.4V.
- f. This product can be charged by shining light on to the dial. Never charge in any other way.
- g. Do not force discharge, recharge, disassemble, heat above or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.

Handling of the Strap

Strap Length Adjustment

To adjust the strap length, contact our [service network](#). ↗

Adjustment of metal straps in particular requires specialized skills.

⚠ CAUTION

The strap includes small components, and these may get lost, or cause injuries to fingers or hands.

Some straps can be adjusted by yourself. For details, see "[How to attach and detach the strap](#)."

Strap Replacement

To replace the strap, contact our [service network](#). ↗

⚠ CAUTION

- Attempting to attach or replace a strap yourself may result in injury.
- There is the risk that the strap could come off with minimal force, which could cause the watch body to fall off.

The following the strap can be replaced by yourself.

- Easy exchange strap



A	Spring bar
B	Lever

How to Remove the Straps



Press down on the lever on the spring bar with your finger to remove the strap.

How to Attach the Straps



While holding down the lever on the spring bar with your finger, attach the strap to the watch.

⚠ CAUTION

If you are attaching a strap from another company, please consult with our [service network](#) ↗ for safety reasons.

How to Attach and Detach the Strap

The attachment and detachment method differs depending on the strap you purchased.

Please refer to the video below for how to put on and take off straps with buckles or clasps.

- [D-buckle](#)
- [Clasp with extension structure](#)