Please refer to the Instruction Manuals of other languages by accessing "Customer Service"→ "Instruction" on our Website from PC or Smartphone.
Thank you very much for choosing a SEIKO watch. For proper and safe use of your SEIKO watch, please read carefully the instructions in this booklet before using it.

Keep this manual handy for easy reference.

* Length adjustment service for metallic bands is available at the retailer from whom the watch was purchased. If you cannot have your watch repaired by the retailer from whom the watch was purchased because you received the watch as a gift, or you moved to a distant place, please contact SEIKO CUSTOMER SERVICE CENTER. The service may also be available on a chargeable basis at other retailers, however, some retailers may not undertake the service.

* If your watch has a protective film for preventing scratches, make sure to peel it off before using the watch. If the watch is used with the film on it, dirt, sweat, dust, or moisture may be attached to the film and may cause rust.

---

**WARNING**

Make sure to read the following instructions before use and strictly observe them.

**WARNING**

When diving, never carry out operations other than those specified in this instruction manual. Mishandling of the product and misunderstanding of the displayed content may lead to a fatal or serious accident.

**WARNING**

The diver’s watch is an auxiliary instrument which mainly displays the passage of time and does not ensure the safety of a user. Use this watch while using the equipment (residual pressure gauge, water depth meter, etc.) required for safe diving.

**WARNING**

Never use this watch for “saturation diving” using helium gas.

---

**CAUTION**

Make sure to read the following instructions before use and strictly observe them.

**CAUTION**

Inspect the following items before diving (excluding saturation diving):
- The watch is normally operating.
- The remaining battery level is sufficient and the mainspring is sufficiently wound.
- The rotating bezel turns smoothly. (The bezel rotation must not be too loose or too tight.)
- Screws of the crown and other parts are reliably tightened.
- No abnormalities such as flaws or cracks exist on the band or glass.
- The band is reliably fixed (with spring bar, buckle or other parts.)
- If any abnormality is observed in the above items, do not use this watch for diving.

**CAUTION**

Do not operate the crown or buttons underwater.

**CAUTION**

As the use environment of the diver’s watch may affect not only the case or band but also the internal mechanism of the watch, we recommend that you periodically request an overhaul for inspection and adjustment approximately once every three to four years.
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<table>
<thead>
<tr>
<th>WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Please note that there is a risk of serious consequences such as severe injury if the following safety regulations are not strictly observed.</td>
</tr>
</tbody>
</table>

Immediately stop wearing the watch in following cases:
- If the watch body or band becomes edged by corrosion etc.
- If the pins protrude from the band.
* Immediately consult the retailer from whom the watch was purchased or SEIKO CUSTOMER SERVICE CENTER.

Keep the watch and accessories out of the reach of babies and children.
Care should be taken to prevent a baby or a child accidentally swallowing the accessories.
If a baby or child swallows the battery or accessories, immediately consult a specialist such as a dermatologist or an allergist.

Do not remove the secondary battery from the watch.
* About the secondary battery  → Power Source  → P. 31
Replacement of the secondary battery requires professional knowledge and skill. Please ask the retailer from whom the watch was purchased for replacement of the secondary battery.
Installation of an ordinary silver oxide battery can generate heat that can cause bursting and ignition.

<table>
<thead>
<tr>
<th>CAUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Please note that there is a risk of minor injury or material damage if the following safety regulations are not strictly observed.</td>
</tr>
</tbody>
</table>

Avoid the following places for wearing or keeping the watch:
- Places where volatile agents (cosmetics such as polish remover, bug repellent, thinners etc.) are vaporizing
- Places where the temperature drops below 5°C or rises above 35°C for a long time
- Places affected by strong magnetism or static electricity
- Places affected by strong magnetism or static electricity
- Dusty places

If you observe any allergic symptoms or skin irritation
Stop wearing the watch immediately and consult a specialist such as a dermatologist or an allergist.

Other cautions
- For adjusting the length of the metallic band, specialized knowledge and expertise are necessary. Therefore, in such a case, contact the retailer from whom the watch was purchased. If you attempt to adjust the metallic band, injury may occur to your hand or fingers, or parts of the band may be lost.
- Do not disassemble or tamper with the watch.
- Keep the watch out of the reach of babies and children. Extra care should be taken to avoid risks of any injury or allergic rash or itching that may be caused when they touch the watch.
- If your watch is of the fob or pendant type, the strap or chain attached to the watch may damage your clothes, or injure the hand, neck, or other parts of your body.
**WARNING**

Never use the watch, in saturation diving using helium gas.

**WARNING**

While diving, never operate the watch in any other manner than set forth in the instruction manual.

**WARNING**

Before using the diver’s watch, you have to be properly trained in various types of diving and possess the requisite experience and skill to dive safely. When diving, strictly abide by the rules of diving.

**CAUTION**

Please note that there is a risk of minor injury or material damage if the following safety regulations are not strictly observed.

- Do not turn or pull out the crown when the watch is wet. Water may get inside of the watch.
  - If the inner surface of the glass is clouded with condensation or water droplets appear inside of the watch for a long time, the water resistant performance of the watch is deteriorated. Immediately consult the retailer from whom the watch was purchased or SEIKO CUSTOMER SERVICE CENTER.

- Do not leave moisture, sweat and dirt on the watch for a long time.
  - Be aware of a risk that a water resistant watch may lessen its water resistant performance because of deterioration of the adhesive on the glass or gasket, or the development of rust on stainless steel.

- Do not wear the watch while taking a bath or a sauna.
  - Steam, soap or some components of a hot spring may accelerate the deterioration of water resistant performance of the watch.

---

**Precautions for diving (Please make sure to observe the following.)**

**Before diving**

Before diving, check the following:

1. The time is correctly set.
2. The seconds hand is moving at one-second intervals. If the hand is moving at two-second intervals or it is stopped, place the dial under light to charge the battery.
   - "Charging the battery" → P. 24
3. The rotating bezel turns smoothly. (The bezel rotation must not be too loose or too tight.)
   - "How to use the rotating bezel" → P. 18
4. The crown is completely screwed in.
   - "Screw down crown" → P. 17
5. There are no visible cracks or scratches on the crystal or watch band.
6. The band is firmly attached to the watch (with spring bars, clamp or other parts.)

---

**CAUTION**

If there are any malfunctions, contact the retailer from whom the watch was purchased or SEIKO CUSTOMER SERVICE CENTER.
■ While diving

Please observe the following cautions for use.

The watch can be used for air diving within the water resistant range displayed on the dial. Do not operate the crown or buttons underwater. Take care not to bump the watch against hard objects such as rocks. Bezel rotation may become slightly harder in the water but this is not a malfunction.

■ After diving

Please follow the care instructions below after diving.

Rinse the watch in fresh water to wash out all seawater and wipe it thoroughly dry to prevent rust. Avoid pouring running water onto the watch directly from a faucet. Put some water into a bowl first, and then soak the watch in the water to wash it.

Depending on the environment where a diver’s watch is used, its inner parts or movement as well as its case or band may be affected. We recommend that you have your watch overhauled regularly once every 3 or 4 years.

■ Structure of the case

In the following types of models, take care of the following issues in usage. The bezel or protective outer case is securely fastened to the watch with setscrews. Never loosen the setscrews.

* The above illustration is provided as an example, therefore it may not be exactly the same as your watch.

** CAUTION **

Never loosen the setscrews used to fix the bezel or protective outer case. Doing so may cause damage or result in further loosening.

* If you find that the setscrews have become loose or are functioning abnormally, consult the retailer from whom the watch was purchased or SEIKO CUSTOMER SERVICE CENTER.

■ Characteristics

- **Water resistant performance for air diving**
  This watch is equipped with water resistant performance to be used in water for a long period of time with scuba diving tanks. (It cannot be used for saturation diving that uses helium gas.)

- **Solar charging function**
  The watch operates while charging electricity by converting light received on a solar cell placed beneath the dial to electrical energy. It cannot properly operate unless the remaining energy is sufficient. Place or store the watch in a location receiving light etc., to sufficiently charge electricity.
  "How to charge the battery" → P. 24
  "Guide to charging times" → P. 25
  "Power Source" → P. 31
**Names of the parts and their functions**

1. **Minute hand**
2. **Hour hand**
3. **Seconds hand**
4. **Date/Day of the Week**
   - “Date (Day of the week) setting” → P. 21
5. **Crown**
6. **Rotating bezel**
   - “How to use the rotating bezel” → P. 18

* Some models may not have date/day of the week.

**How to use the rotating bezel**

**By setting the rotating bezel beforehand, the elapsed time since the start of an event can be measured.**

1. **At the start of the event, for which you want to measure the elapsed time (for example, when you start diving), rotate the bezel so that the mark on the bezel is aligned with the minute hand.**
   - The rotating bezel is designed to rotate only counterclockwise.
   - Do not forcibly rotate it clockwise.
   - “[One-Way rotating bezel]” → P. 19

2. **Read the graduation on the rotating bezel to which the minute hand is pointing.**
   - The graduation on the rotating bezel to which the minute hand is pointing indicates the elapsed time.

* The above illustration is provided as an example, therefore it may not be exactly the same as your watch.

**Screw down crown**

The screw down crown features a mechanism that can securely lock the crown when it is not being operated in order to prevent any operational errors and to improve its water resistant performance.

- **It is necessary to unlock the screw down crown before operating it.**
- **Once you have finished operating the crown, make sure to relock it.**

**[To unlock the crown]**
- Turn the crown counterclockwise to unscrew it.
- Now the crown can be operated.

**[To lock the crown]**
- Turn the crown clockwise while gently pressing it in toward the watch body until it stops.

* When locking the crown, turn it slowly with care, ensuring that the screw is properly engaged. Be careful not to push it in forcefully, as doing so may damage the screw hole in the case.

**How to use the rotating bezel**

By setting the rotating bezel beforehand, the elapsed time since the start of an event can be measured.

1. **At the start of the event, for which you want to measure the elapsed time (for example, when you start diving), rotate the bezel so that the mark on the bezel is aligned with the minute hand.**
   - The rotating bezel is designed to rotate only counterclockwise.
   - Do not forcibly rotate it clockwise.
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2. **Read the graduation on the rotating bezel to which the minute hand is pointing.**
   - The graduation on the rotating bezel to which the minute hand is pointing indicates the elapsed time.

* The above illustration is provided as an example, therefore it may not be exactly the same as your watch.

**CAUTION**

Make sure that you check the correct remaining amount of air in your cylinder before diving. Use the display of the elapsed time by the rotating bezel only as a guide during diving.
How to set the time and date

1. Pull out the crown to the first click.
   - For models with screw down crown, please unlock the crown before operating it.

2. Turn the crown to set the date (day of the week).
   Day of the week can be displayed either in Japanese or English by your choice.
   * Some models display the date and day of the week in the reverse order.

3. Push the crown back in to the normal position.
   - For models with screw down crown, please be sure to lock the crown after operating it.

2. Manual date adjustment at the end of the month
   It is necessary to adjust the date at the end of February and 30-day months.
   * Some models may not have date/day of the week.

   Ex.) To adjust the date in the A.M. period on the first day of a month following a 30-day month
   The watch displays “31” instead of “1.” Pull out the crown to the first click.
   Turn the crown to set the date to “1” and then push the crown back in to the normal position.
   * Some models display the date and day of the week in the reverse order.
   * For models with screw down crown, please be sure to lock the crown after operating it.

   CAUTION
   Avoid amending the date within the following time frames. Doing so may cause damage.
   Date-displaying models: 9:00 pm to 1:00 am
   Date/day of week-displaying models: 9:00 pm to 4:00 am
## Charging the Battery

### How to charge the battery

Expose the dial to light to charge the watch.

To ensure optimal performance of the watch, make sure that the watch is kept sufficiently charged at all times.

Under the following situations, the energy of the watch is likely to be depleted, resulting in stoppage of the watch:
- The watch is concealed under a sleeve.
- The watch is used or stored under conditions where it cannot be exposed to light for a long time.

* Be careful to make sure that the watch does not get hot when it is charging. (The operating temperature range is -10°C to +60°C.)

* When you first start using the watch or starting it after it stopped due to a lack of charge, charge the watch sufficiently using the table on P. 25 as a guide.

### Guide to charging times

Charge the watch using the times below as a guide.

The figures of “Time required for charging the watch to start moving at one-second intervals” are estimations of time required to charge the stopped watch by exposing it to light until it moves at steady one-second intervals. Even if the watch is partially charged for a shorter period, the watch will resume one-second-interval movement. However, it may shortly return to two-second-interval movement. Use the charging time in this column as a rough guide for sufficient charging time.

* The required charging time slightly varies depending on the model of the watch.

#### V131

<table>
<thead>
<tr>
<th>Illuminance (lx)</th>
<th>Light source</th>
<th>Condition (Example)</th>
<th>Time required for fully charging the watch</th>
<th>Time required to get the small seconds hand moving at one-second intervals</th>
<th>Time required to charge the watch to last for 1 day</th>
</tr>
</thead>
<tbody>
<tr>
<td>700</td>
<td>Fluorescent light</td>
<td>General offices</td>
<td>175 hours</td>
<td>11 hours</td>
<td>50 minutes</td>
</tr>
<tr>
<td>3,000</td>
<td>Fluorescent light</td>
<td>30W 20cm</td>
<td>40 hours</td>
<td>2 hours</td>
<td>10 minutes</td>
</tr>
<tr>
<td>10,000</td>
<td>Sunlight</td>
<td>Cloudy day</td>
<td>10 hours</td>
<td>30 minutes</td>
<td>3 minutes</td>
</tr>
<tr>
<td>100,000</td>
<td>Sunlight</td>
<td>Sunny day (Under the direct sunlight on a summer day)</td>
<td>3 hours</td>
<td>6 minutes</td>
<td>1 minute</td>
</tr>
</tbody>
</table>

### About energy

When the energy stored in the watch is running down, the seconds hand starts moving at two-second intervals.

If the energy runs out, the watch will stop.

If the seconds hand starts moving at two-second intervals, fully charge the watch.

How to charge the battery → P. 24
Guide to charging times → P. 25
Daily care

- The watch requires good daily care
  - Do not wash the watch when its crown is in the extended position.
  - Wipe away moisture, sweat or dirt with a soft cloth.
  - After soaking the watch in seawater, be sure to wash the watch in clean pure water and wipe it dry carefully.
  - Do not pour running water directly from a faucet onto the watch. Put some water into a bowl first, and then soak the watch in the water to wash it.
  - If your watch is rated as "Non-water resistant" or "water resistant for everyday life", do not wash the watch.
  - * "Performance and type" → P. 29

- Turn the crown from time to time
  - In order to prevent corrosion of the crown, turn the crown from time to time.
  - The same practice should be applied to a screw down crown.
  - "Screw down crown" → P. 17

Lumibrite

If your watch has Lumibrite
Lumibrite is a luminous paint that absorbs the light energy of sunlight and lighting apparatuses in a short time and stores it to emit light in the dark. For example, if exposed to a light of more than 500 lux for approximately 10 minutes, Lumibrite can emit light for 3 to 5 hours. Please note, however, that, as Lumibrite emits the light it stores, the luminance level of the light decreases gradually over time. The duration of the emitted light may also differ slightly depending on such factors as the brightness of the place where the watch is exposed to light and the distance from the light source to the watch.

- In general, when coming from a place that is bright to a place that is dark, it takes human eyes some time to adapt to the darkness making it difficult to see objects initially. (Dark adaptation)
- Lumibrite is luminous paint that stores and emits light, which is harmless to human beings and the environment, containing no toxic materials such as radioactive substances.

<table>
<thead>
<tr>
<th>Condition</th>
<th>Illumination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunlight</td>
<td>100,000 lux</td>
</tr>
<tr>
<td>Cloddy weather</td>
<td>less than 1000 lux</td>
</tr>
<tr>
<td>Indoor (Window-side during daytime)</td>
<td>more than 3000 lux</td>
</tr>
<tr>
<td>Cloddy weather</td>
<td>1000 to 3000 lux</td>
</tr>
<tr>
<td>Lighting apparatus (40-watt daylight fluorescent light)</td>
<td></td>
</tr>
<tr>
<td>Distance to the watch: 1 m</td>
<td>1000 lux</td>
</tr>
<tr>
<td>Distance to the watch: 3 m</td>
<td>500 lux (average room luminance)</td>
</tr>
<tr>
<td>Distance to the watch: 4 m</td>
<td>250 lux</td>
</tr>
</tbody>
</table>

Performance and type

The case back shows the caliber and performance of your watch

- Water resistant performance
- Magnetic resistant performance

• Water resistant performance
• Case Number
  - The number to identify the type of your watch.
  - "Performance and type" → P. 29

- Magnetic resistant performance
  - Refer to pages P. 33 and P. 34.

Power Source

The battery used in this watch is a special secondary battery, which is different from ordinary batteries. Unlike an ordinary silver oxide battery, the secondary battery does not require periodic replacement.

The capacity or charging efficiency may gradually lower due to long-term use or operating environment. In addition, long-term use may shorten the charge duration due to wear, contamination, lubricant deterioration of mechanical parts, etc. Request repair when the performance lowers.

- Notes on replacing the secondary battery
  - Do not remove the secondary battery from the watch.
  - Replacement of the secondary battery requires professional knowledge and skill.
  - Please ask the retailer from whom the watch was purchased for replacement of the secondary battery.
  - Installation of an ordinary silver oxide battery can generate heat that can cause bursting and ignition.
Overcharge prevention function
When the secondary battery is fully charged, the overcharge prevention function is automatically activated to avoid further charging.

There is no need to worry about damage caused by overcharging no matter how much the secondary battery is charged in excess of the “time required for fully charging the watch.”

* For the required time to fully charge the battery, see “Guide to charging times” → P. 25.

### WARNING

#### Notes on charging the watch
- When charging the watch, do not place the watch in close proximity to an intense light source such as lighting equipment for photography, spotlights or incandescent lights, as the watch may be excessively heated resulting in damage to its internal parts.
- When charging the watch by exposure to direct sunlight, avoid places that easily reach high temperatures, such as a car dashboard.
- Always keep the watch temperature under 60°C.

### Magnetic resistant performance
AFFECTED BY NEARBY MAGNETISM,
A WATCH MAY TEMPORARILY GAIN OR LOSE TIME OR STOP OPERATING.

Diver’s watches feature magnetic resistant performance which is equivalent to or above JIS Class 1.

<table>
<thead>
<tr>
<th>Indication on the case back</th>
<th>Condition of use</th>
</tr>
</thead>
<tbody>
<tr>
<td>No indication</td>
<td>Keep the watch more than 5 cm away from magnetic products.</td>
</tr>
<tr>
<td></td>
<td>(JIS level-1 standard)</td>
</tr>
<tr>
<td><img src="image" alt="magnet" /></td>
<td>Keep the watch more than 1 cm away from magnetic products.</td>
</tr>
<tr>
<td></td>
<td>(JIS level-2 standard)</td>
</tr>
</tbody>
</table>

If the watch becomes magnetized and its accuracy deteriorates to an extent exceeding the specified rate under normal use, the watch needs to be demagnetized. In this case, you will be charged for demagnetization and accuracy readjustment even if it happens within the guarantee period.

**The reason why a watch is affected by magnetism**
The built-in motor is provided with a magnet, which may be influenced by a strong external magnetic field.

### Band
The band touches the skin directly and becomes dirty with sweat or dust. Therefore, lack of care may accelerate deterioration of the band or cause skin irritation or stain on the sleeve edge. The watch requires a lot of attention for long usage.

**Metallic band**
- Moisture, sweat or soil will cause rust even on a stainless steel band if they are left for a long time.
- Lack of care may result in a rash or cause a yellowish or gold stain on the lower sleeve edge of shirts.
- Wipe off moisture, sweat or soil with a soft cloth as soon as possible.
- To clean the soil around the joint gaps of the band, wipe it out in water and then brush it off with a soft toothbrush.
  (Protect the watch body from water splashes by wrapping it up in plastic wrap etc.)
- Clean it off with a soft cloth.
- Because some titan bands use pins made of stainless steel, which has outstanding strength, rust may form in the stainless steel parts.
  - If rust advances, pins may poke out or drop out, and the watch case may fall off the band, or the clasp may not open.
  - If a pin is poking out, personal injury may result. In such a case, refrain from using the watch and request repair.

### Examples of common magnetic products that may affect watches

- Smartphone, cellular phone, tablet terminal (speaker, magnet of cover)
- AC adapter
- Bag (with magnet buckle)
- AC-powered shaver
- Magnetic cooking device
- Portable radio (speaker)
- Magnetic necklace
- Magnetic health pillow
Polyurethane band
- A polyurethane band is susceptible to discoloration from light, and may be deteriorated by solvent or atmospheric humidity.
- Especially a transparent, white, or pale colored band easily adsorbs other colors, resulting in color smears or discoloration.
- Wash out dirt in water and clean it off with a dry cloth.
- (Protect the watch body from water splashes by wrapping it up in plastic wrap, etc.)
- When the band becomes less flexible, have the band replaced with a new one. If you continue to use the band as it is, the band may develop cracks or become brittle over time.

Silicone band
- As for material characteristics, the band is easily dirtied, and may be stained and discolored.
- Wipe off dirt with a wet cloth or cleaning tissue.
- Unlike bands of other materials, cracks may result in the band being cut. Take care not to damage the band with an edged tool.

Skin irritation caused by a band may result from various factors such as allergy to metals or leathers, or skin reactions against friction on dust or the band itself.

Notes on the length of the band
- Adjust the band to allow a little clearance with your wrist to ensure proper airflow.
- When wearing the watch, leave enough room to insert a finger between the band and your wrist.

How to use the diver adjuster
If your watch’s metallic band has the Diver Adjuster function, the length of the band can be easily adjusted.
- It is very useful when you wear the watch over a wet suit or winter clothing.

1 Lift up the flap approximately 90° until it stands upright, and then press the flap down further approximately 20° and lightly hold it.
- When doing so, take care not to push the flap forcibly. Although you may feel slight resistance, doing this requires only a light force.

2 Lightly pull the band on the 6 o’clock side of the watch along the curved line of the band to pull out the slider.
- Doing this requires only a light force.
- The slider can be pulled out approximately 30 mm. Take care not to pull it out more than this limit.

How to use the diver extender
If your watch’s metallic band has the Diver Extender function, the length of the band can be easily adjusted.
- It is very useful when you wear the watch over a wet suit or winter clothing.

1 Lift up the flap.

2 While pressing the push button, open the clasp.
- After opening the clasp, push the flap back to the normal position for safety’s sake.
3 Open the two-piece foldover portion of the Diver Extender in the direction of the arrow.
   • Some force is required to open the foldover portion, and it will click when it is opened.

4 Slide the upper cover of the Diver Extender in the direction of the arrow, and then, pull it up to extend the two-piece foldover portion to the full extent.

5 Place the watch on your wrist, and close the clasp (5-1) first and then, the flap (5-2).
   • To fold up the Diver Extender, reverse the procedure above. When the two-piece folder portion of the Diver Extender is folded up completely, it also clicks in the same manner as when it is opened.

● Inspection and adjustment by disassembly and cleaning (overhaul)
   • Periodic inspection and adjustment by disassembly and cleaning (overhaul) is recommended approximately once every 3 to 4 years in order to maintain optimal performance of the watch for a long time. According to use conditions, the oil retaining condition of your watch mechanical parts may deteriorate, abrasion of the parts may occur due to contamination of oil, which may ultimately lead the watch itself to stop.
   As the parts such as gasket may deteriorate, water-resistant performance may be impaired due to intrusion of perspiration and moisture.
   Please contact the retailer from whom the watch was purchased for inspection and adjustment by disassembly and cleaning (overhaul). For replacement of parts, please specify “SEIKO GENUINE PARTS.” When asking for inspection and adjustment by disassembly and cleaning (overhaul), make sure that the gasket and push pin are also replaced with new ones.
   • When your watch is inspected and adjusted by disassembly and cleaning (overhauled), the movement of your watch may be replaced.

Depend on the environment where a diver’s watch is used, its inner parts or movement as well as its case or band may be affected. We recommend that you have your watch overhauled regularly once every 3 or 4 years.

Troubleshooting

<table>
<thead>
<tr>
<th>Troubles</th>
<th>Possible causes</th>
<th>Solutions</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>The watch stops operating.</td>
<td>The power is completely depleted or low. If you wear the watch every day and this occurs, the most likely cause is the watch is hidden by your sleeves or other clothing when you wear it and it is not sufficiently exposed to light.</td>
<td>Sufficiently charge the battery until the seconds hand moves every second. When you wear the watch, try to make sure that the watch is not hidden by your sleeves or other clothing. Additionally, when you take the watch off, try to place it in a bright place.</td>
<td>P. 24</td>
</tr>
<tr>
<td>The seconds hand is moving at two-second intervals.</td>
<td>The light is too weak. More time is required to fully charge the watch.</td>
<td>The time taken to charge will differ depending on the light intensity. For details on charging times, see “Guide to charging times” → (P. 25).</td>
<td>P. 25</td>
</tr>
</tbody>
</table>
### Troubleshooting

<table>
<thead>
<tr>
<th>Troubles</th>
<th>Possible causes</th>
<th>Solutions</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>The watch temporarily gains/loses time.</td>
<td>The watch has been left in extremely high or low temperatures for a long time.</td>
<td>If the watch returns to room temperature, the accuracy will return to its original state. If it does not return to its original state, contact the retailer from whom the watch was purchased.</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>The watch has been left close to an object with a strong magnetic field.</td>
<td>Correct this condition by moving and keeping the watch away from the magnetic source, and reset the time. If this action does not correct the condition, contact the retailer from whom the watch was purchased.</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>You drop the watch, hit it against a hard surface, or wear it while playing active sports. The watch is exposed to strong vibrations.</td>
<td>If accuracy does not return after setting the time, consult the retailer from whom the watch was purchased.</td>
<td>-</td>
</tr>
<tr>
<td>The date changes at 12 o'clock noon.</td>
<td>AM/PM is not properly set.</td>
<td>Advance the hands by 12 hours.</td>
<td>P. 20</td>
</tr>
<tr>
<td>Blur in the display persists.</td>
<td>Small amount of water has got inside the watch due to deterioration of the gasket, etc.</td>
<td>Consult the retailer from whom the watch was purchased.</td>
<td>-</td>
</tr>
</tbody>
</table>

* Contact the retailer from whom the watch was purchased for any other troubles.

### Specifications

<table>
<thead>
<tr>
<th>Cal.</th>
<th>V131 / V145 / V147 / V157 / V158</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Features</td>
<td>3 hands (hours, minutes, seconds), date display (excluding V131)</td>
</tr>
<tr>
<td>2. Frequency of crystal oscillator</td>
<td>32,768 Hz (Hz= Hertz, cycles per second)</td>
</tr>
<tr>
<td>3. Loss/gain (monthly rate)</td>
<td>Monthly average loss/gain ± 15 seconds Only if worn on the wrist in a temperature range of 5°C to 35°C</td>
</tr>
<tr>
<td>4. Operational temperature range</td>
<td>-10 °C ~ +60 °C</td>
</tr>
<tr>
<td>5. Driving system</td>
<td>Three step motors</td>
</tr>
<tr>
<td>6. Power source</td>
<td>Secondary battery, 1 piece</td>
</tr>
<tr>
<td>7. Duration</td>
<td>V131/V145: approx. 6 months V147/V157/V158: approx. 10 months</td>
</tr>
<tr>
<td>8. IC (Integrated Circuit)</td>
<td>Oscillator, frequency divider and driving circuit C-MOSIC, 1 piece</td>
</tr>
</tbody>
</table>

* The specifications are subject to change without prior notice due to product improvements.