# SEIKO 

SINCE 1881

## INSTRUCTION MANUAL FOR WATCH CALIBRE

V172

## WARNING $\oplus$ <br> THIS PRODUCT CONTAINS A BUTTON BATTERY <br> If swallowed or placed inside any part of the body, the battery can cause severe or fatal injuries within 2 hours or less. <br> Button batteries are hazardous. Keep batteries out of reach of children. <br> If you think the battery may have been swallowed or <br> placed inside any part of the body, seek immediate medical attention. Contact the Australian Poisons Information Centre immediately on 131126 for 24/7 fast, expert advice.

## SIPITO



そのほかの言語の取扱説明書は，パソコンや
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https：／／www．seikowatches．com／

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.

| CONTENTS |  |
| :---: | :---: |
| 1 HOW TO USE | 2 HOW TO SET THE TIME AND DATE |
| Handling cautions ...................................... 4 | How to set the time and date ...................... 17 |
| Characteristics ......................................... 8 | How to set the time and date ................... 17 |
| Names of the parts and functions ................... 9 | Manual date adjustment at the end of the |
| V172: Equipped with a stopwatch and alarm |  |
|  | 3 HOW TO USE THE STOPWATCH |
| V172: Equipped with a stopwatch, alarm and compass $\qquad$ 11 | Stopwatch function ................................... 22 |
| V174: Equipped with a stopwatch, alarm and 24-hour hand $\qquad$ 12 | The names of the parts and functions of the stopwatch (V172, V174) ........................... 22 |
| V175: Equipped with a stopwatch and 24-hour hand $\qquad$ 13 | The names of the parts and functions of the stopwatch (V175) ..................................... 23 |
| V176: Equipped with a stopwatch ............. 14 | The names of the parts and functions of the stopwatch (V176) 24 $\qquad$ |
| Crown ..................................................... 15 | Before using the stopwatch ..................... 26 |
| Compass (Only for models with the compass inner ring) $\qquad$ | How to use the stopwatch ......................... 28 |
|  | How to use the tachymeter ......................... 32 |


| 4 HOW TO USE THE ALARM | Band ..................................................... 48 |
| :---: | :---: |
| How to use the alarm (V172, V174) .............. 34 | How to use tri-fold type clasp for leather band |
| How to set the alarm time ........................ 35 | (Special clasps) ....................................... 50 |
| How to stop the alarm ............................. 36 | After sales service ....................................... 56 |
| How to disengage the set alarm time ......... 36 | 7 TROUBLESHOOTING |
| Alarm sound test ................................... 36 | Adjusting the preliminary position of the stopwatch hands $\qquad$ |
| 5 SOLAR CHARGING FUNCTION | Adjusting the preliminary position of the |
| Charging the battery .................................. 37 | stopwatch $1 / 5$-second and minute hands |
| How to charge the battery ....................... 37 | (V172, V174, V175) ............................... 59 |
| Guide to charging times ......................... 38 | Adjusting the preliminary position of the |
| About energy .......................................... 39 | stopwatch $1 / 20$-second, second and minute <br> hands (V176) $\qquad$ 63 |
| 6 TO PRESERVE THE QUALITY OF YOURWATCH | Troubleshooting .......................................... 67 |
|  | If the hands fail to move or move abnormally |
| Daily care .............................................. 42 | Resetting the built-in IC ........................... 70 |
| Performance and type .................................. 43 | 8 SPECIEICATIONS |
| Lumibrite ............................................... 44 | Speclfication |
| Water resistant performance ...................... 45 | Specirations ......................................... 72 |
| Magnetic resistant performance .................. 46 |  |

## Handling cautions

## $\triangle$ WARNING

Please note that there is a risk of serious consequences such as severe injury if the following safety regulations are not strictly observed.

## Immediately stop wearing the watch in following cases:

Olf the watch body or band becomes edged by corrosion etc.
Olf the pins protrude from the band. 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. a baby or child swallows the battery or accessories, immediately consult a doctor, as it will be harmful to the health of the baby or child.
Do not remove the secondary battery from the watch.
About the secondary battery $\rightarrow$ Power Source $\rightarrow$ P. 40
Replacement of the secondary battery requires professional knowledge and skill. Please ask the retaile from whom purche was replacement of the secondary battery
Installation of an ordinary silver oxide battery can generate heat that can cause bursting and ignition.
Do not use the watch in scuba diving or saturation diving.
The various tightened inspections under simulated harsh environment, which are
usually required for watches designed for scuba diving or saturation diving, have
not been conducted on the water resistant watch with the BAR (barometric
pressure) display. For diving, use watches specifically designed for diving.

## $\triangle$ CAUTION

## Do not pour running water directly from faucet.

The water pressure of tap water from a faucet is high enough to degrade the wate resistant performance of a water resistant watch for everyday life.

## $\triangle$ CAUTION

Please note that there is a risk of minor injury or material damage if the following safety regulations are not strictly observed.
Avoid the following places for wearing or keeping the watch
O Places where volatile agents (cosmetics such as polish remover, bug repellent, thinners etc.) are vaporizing
Places where the temperature drops below Places affected by strong magnetism or static

O Places affected by strong vibration O Places of high humidity O Dusty places electricity
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

O 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 attemp lost.
O Do not disassemble or tamper with the watch
O 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.
O 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.

## 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竍 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 resistan 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.

## Characteristics

This solar watch is equipped with a stopwatch function.

- A full-scale stopwatch, which can measure in $1 / 5$-second increments (V172, V174, V175) or $1 / 20$-second increments (V176) with the center hand, is equipped.
- A solar cell under the dial converts any form of light into "electrical energy" to operate the watch.
* "Chronograph" means a watch with a stopwatch function.

■ Stopwatch function.. $\qquad$ The stopwatch can measure up to 60 minutes in $1 / 5$-second After measuring 60 minutes, the stopwatch will automatically stop

Alarm function.
$\rightarrow$ P. 34
The single-time alarm can be set to sound only once at a designated ime.
The alarm time can be set in one-minute increments to the time until 1 hours 59 minutes is reached. Only available for V172 and V174
Solar Charging Function. $\rightarrow$ P. 37

The watch charges by converting light that shines on the solar pane on the dial into electrical energy. After the battery is fully charged the watch will operate for about six months even if the dial is not exposed to light.

EN 8

(1) Stopwatch 1/5 (Button A
second hand
(2) Hour hand
(3) Seconds hand
(4) Small alarm display $\rightarrow$ P. 34
(5) Tachymeter $\rightarrow$ P. 32
(6) Stopwatch minute hand (7) Minute hand
(8) Button A
(9) Crown

- Normal position (not locked): (not locked)
- First click
position: Date
setting, alarm time setting
- Second click
position: Setting
the time, setting
the stopwatch
hands to preliminary position, and performing a system reset
(10) Button B
(11) Date

Names of the parts and functions
Refer to the page corresponding to the caliber of your watch.
The case back shows the caliber and performance of your watch
"Performance and type" $\rightarrow$ P. 43

* The caliber number shows your watch type.

$\left.$| Caliber number | V172 | V174 | V175 | V176 |
| :---: | :---: | :---: | :---: | :---: |
| Reference page <br> (Names of the <br> parts and <br> functions) | P.10, 11 | P.12 | P.13 | P.14 |
| Stopwatch <br> function | Measures in 1/5-second increments |  |  |  | | Measures in 1/20 |
| :---: |
| second increments | \right\rvert\,


(1) Stopwatch 1/5-
second hand
(2) Hour hand
(3) Seconds hand
(4) Small alarm display
(5) Tachymeter $\rightarrow$ P. 32
(6) Stopwatch minute hand (7) Minute hand
(8) Button A
(9) Crown

- Normal position (not locked)
Stopwatch
- First click
position: Date setting, alarm time setting
- Second click position: Setting the time, setting the stopwatc hands to preliminary
position, and performing a system reset
(10) Button B (11) 24-hour hand
(12) Date
- V175: Equipped with a stopwatch and 24-hour hand
(1) Stopwatch 1/5- (7) Button A

second hand
(8) Crown
- Normal position (not locked):

First click position: Date setting

- Second click position: Setting the time, setting the stopwatch hands to preliminary position, and performing a
system reset
(9) Button B
(10) 24-hour hand
(11) Date

Some models may not have a tachymeter
EN 12
Some models may not have a tachymeter


Crown
There are two types of crowns, a normal crown and a screw down crown Please check the type of the crown of your watch.

[^0][^1]The compass is functional only within the northern hemisphere, and it may not function properly at lower latitudes (South of the Tropic of Cancer) depending on the season of the year. Please Whe the compass in places where the direction of the sun can be determined.
Thile keeping the dial level, point the hour hand towards the sun. The direction of south is
 the hour hand.
The compass is so

- For models with the rotating compass inner ring
Turn the crown for the rotating compass inner ring Turn the crown for the rotating compass inner ring
to set "S" on the rotating compass inner ring to the direction of the south.


3 Pull out the crown to the first click.
The seconds hand continues moving. For models with screw down crown, please unlock the crown before operating it.

The date can be set by turning the crown
Turn it until the previous day's date appears.
Ex.) To display the date as " 6 ," then set this to " 5 ." Turn the crown to the right (clockwise) to set the date.

## How to set the time and date

## - How to set the time and date

* When setting the date only, refer to "Manual date adjustment at the end of the month" $\rightarrow$ P. 21 .


## 1 Make sure that the watch is working.

Check that the seconds hand is moving at one-second intervals.
If the seconds hand is moving at two-second intervals or the seconds hand has stopped, charge the watch by exposing the dial of the watch to light. "Charging the battery" $\rightarrow$ P. 37

Check that the watch hands are not displaying any time between 9 p.m. and 1 a.m. If a time between 9 p.m. and 1 a.m. is being displayed, pull the crown to the second click, advance the hands beyond the 1 a.m. position, and push the crown back in.
*This procedure is required to ensure the proper engagement of the date driving wheel.
Each time the hour hand makes two full rotations by turning the crown, the date is adjusted one day. While turning the crown, the date changes at exactly midnight. When setting the hour hand, be sure that AM/PM is set corectly (For the models V174 and V175, the 24-hour hand can be used as an AM/PM indicator. "Name of the parts and functions" $\rightarrow$ P.12, 13)

5 Pull out the crown to the second click and set the time.
Pull out the crown to the second click when the seconds hand is at the 12 o'clock position; the seconds hand stops on the spot.
seconds hand stops on the spown to advance the hands until the date
changes to the next. The time is now set for the A.M. period. Advance the hands to set the correct time.
For models V174 and V175, the 24-hour hand can be
used as an AM/PM indicator.
In order to set the time accurately, turn the minute
hand 4 to 5 minutes ahead and then return it to the correct time

- If you own model V172 or V174:

tis recommended to set the minute hand two minutes ahead of the correct time (proceed to operation of the procedure 6).


## - If you own model V175 or V176:

Continue to procedure 7
If you do notknow the caliber number of your watch: The caliber number shows your watch type. "Performance and type" $\rightarrow$ P. 43

6 Press button B to set the alarm time to the same time as the main time（only for models V172 and V174）．
If button $B$ is kept pressed，the alarm hands advance quickly．
＊Alarm time can be set on a 12 －hour basis．


7 Push the crown back in to the normal position in accordance with a time signal．
The seconds hand immediately starts moving
＊The telephone time signal service is helpful for setting the seconds hand exactly．
＊For models with screw down crown，please be sure to lock the crown after operating it．

## Stopwatch function

The stopwatch can measure up to 60 minutes in $1 / 5$－second increments（V172，V174，V175）or 1／20－second increments（V176）．After measuring 60 minutes，the stopwatch hands will $1 / 20-s e c o n d ~ i n c r e m e n t s ~(V 176) . ~ A f t e r ~ m e a s u r i n g ~$
60 m
automatically stop at the 0 minute 0 second position．
－The names of the parts and functions of the stopwatch（V172，V174）

（1）Stopwatch 1／5－second hand moves in $1 / 5$－second increments
（2）Stopwatch minute hand moves in one－minute increments
（3）Button A
Button A
Start／Stop
（4）Button B
Split／Reset
$\underset{\rightarrow P .32}{\text {（5）Tachy }}$
＊The position of the tachymeter display may differ depending on the design of the model．
＊Some models may not have a tachymete．

## 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．
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 clockwise to set the date to＂ 1 ＂and then 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．

$\triangle$ CAUTION
－Avoid amending the date when the watch is displaying between 9 PM and 1 AM．Doing so may cause damage．
$\square$ The names of the parts and functions of the stopwatch （V175）

（1）Stopwatch $1 / 5$－second hand moves in $1 / 5$－second increments
（2）Button A
Start／Stop
（3）Button B
Split／Reset
（4）Stopwatch minute hand
moves in one－minute increments
（5）Tachymeter
$\rightarrow$ P． 32
＊The position of the tachymeter display may differ
The position of the tachymeter display
depending on the design of the model．
＊Some models may not have a tachymeter

The names of the parts and functions of the stopwatch (V176)

## 3

## 3


(1) Stopwatch second hand moves in one-second increments
(2) Stopwatch $\mathbf{1 / 2 0}$-second hand moves in $1 / 20$-second increments
(3) Button A

Start/Stop
(4) Button B

Split/Reset
(5) Stopwatch minute hand moves in one-minute increments
(6) Tachymeter
$\rightarrow$ P. 32

* The position of the tachymeter display may differ depending on the design of the model. * Some models may not have a tachymeter.

Notes on the movement of the stopwatch $1 / 20$ second hand>

- After the stopwatch is started, the stopwatch $1 / 20$ second hand moves for about 1 minute and automatically stops at " 0 " position
- When split time is measured or the measurement is stopped, it moves to indicate the elapsed $1 / 20$ seconds.
- After split time is released or the measurement is restarted, it moves for about 1 minute and stops automatically.
- In the same manner, if the stopwatch is stopped and restarted repeatedly or split time is measured and released repeatedly, it will keep moving for maximum 2 minutes after the last operation.

If any of the stopwatch hands do not return to 0 minute 0 second when the stopwatch is reset, set the stopwatch hands to the preliminary hand position.
"Adjusting the preliminary position of the stopwatch hands" $\rightarrow$ P. 58

Checking the position of the stopwatch hands after

| The stopwatch hands have <br> stopped at the " 0 seconds <br> and 0 minutes" position | The stopwatch is <br> reset. |
| :--- | :--- |

The stopwatch hands have stopped at a position other than the "O seconds and 0 minutes" position

Adjust the stopwatch

- Before pressing the buttons, make sure that the stopwatch hands are moving.


## Before using the stopwatch

Before using the stopwatch, reset the stopwatch to make sure that the stopwatch hands are rese o the 0 minute 0 second position
Refer to the following procedure for resetting the stopwatch.
When the seconds hand is moving at two-second intervals, the stopwatch cannot be operated "About energy" $\rightarrow$ P. 39

- How to reset the stopwatch

The stopwatch can be operated when the crown is at the normal position.
Current status


## How to use the stopwatch

* When the seconds hand is moving at two-second intervals, the stopwatch cannot be operated. "About energy" $\rightarrow$ P. 39
- Standard measurement Ex. 5,000 meters running


- Accumulated elapsed time measurement Ex. Measuring the time for a soccer match

- Split time (intermediate elapsed time) measurement Ex. 5,000 meters running
"Split time" is the time that has elapsed from the start of an activity to any given stage.

-Split and split release can be repeated as Example of the many times as necessary during a stopwatch measurement
 Extermediate elapsed time

- Measurement of two competitors


Ex. Measurement of two

competitors


## How to use the tachymeter

The numbers on the tachymeter scale can be read to determine how many seconds it takes to run 1 km or to measure the time required to complete 1 job.

How to measure kilometers / hour
1 Measure the time (within 1 minute) it takes to run 1 km .
2 Read the number on the tachymeter scale that the stopwatch $1 / 5$-second hand (V172, V174, V175) or seconds hand (V176) is pointing to.
Ex. : If it takes 45 seconds to run $1 \mathrm{~km} . . .80 \mathrm{~km} / \mathrm{h}$


Measure the time (within 1 minute) required to complete 1 job.
2 Read the number on the tachymeter scale that the stopwatch $1 / 5$-second hand (V172, V174, V175) or seconds hand (V176) is pointing to.
Ex. : If it takes 20 seconds to complete one product... 180 products/hour


## How to use the alarm (V172, V174)

The single-time alarm can be set to sound only once at a designated time.
When the time of the main time reaches the designated alarm time, the alarm sounds.
When the time of the main time reaches the designated alarm time, the alarm sounds.
The alarm time can be set in one-minute increments within the coming 11 hours 59 minutes.

4

(1) Minute hand
(2) Hour hand
(3) Small alarm display When the alarm time is set: the designated alarm time is displayed. When the alarm time is not set: current time (same as the main time) is displayed.

When the seconds hand is moving at two-second intervals, the alarm does not sound at the set alarm time. And alarm time cannot be set. "About energy" $\rightarrow$ (P.39)

## How to set the alarm time

1 Pull out the crown to the first click.

- The watch continues operating.
* For models with screw down crown, please unlock the crown before operating it.


Pull out the crown to the first click

2
Press button $B$ to set the alarm time.
If button $B$ is kept pressed, the alarm hands are fast forwarded.
If the alarm hands advance more than the desired alarm time, continue pressing button $B$ to advance the hand to set the desired alarm time.
If button $B$ is kept pressed until the alarm hands point to the same time as the main time, the alarm hands stop and the alarm is disengaged.
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.

- How to stop the alarm
- The alarm sounds for 20 seconds at the set alarm time.
- For stopping the sounding alarm, press button A or B

While the stopwatch hands are moving, the alarm sounds differently than the normal alarm sound. This is not a malfunction.

* When the alarm is sounding, if button $A$ or $B$ is pressed, the alarm stops sounding, but the stopwatch cannot be
operated. After the alarm sound stops, the stopwatch can be operated.

How to disengage the set alarm time

- If you want to disengage the set alarm time, reset the alarm time to the same time as the main time $\rightarrow$ P. 35
- Alarm sound test
- To test the alarm sound, pull out the crown to the first click, and then long press button A (for about 4 seconds). The alarm sounds while the button A is kept pressed.
* When you finish the sound test, 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. $\rightarrow$ P. 15


## - Guide to charging times

Charge the watch using the times below as a guide.

| Illuminance Ix (LUX) | Light source | Condition (Example) | Time required for fully charging the watch | Time required for charging the watch to start moving at onesecond intervals | Time required for charging the watch to last for 1 day |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 700 | $\begin{gathered} \text { Fluorescent } \\ \text { light } \end{gathered}$ | General offices | - | 60 hours | 2.5 hours |
| 3,000 | Fluorescent light | 30 W 20 cm | 110 hours | 13 hours | 33 minutes |
| 10,000 | Fluorescent light | 30 W 5 cm | 30 hours | 3.5 hours | 9 minutes |
| 10,000 | Sunlight | Cloudy day | 30 hours | 3.5 hours | 9 minutes |
| 100,000 | Sunlight | Sunny day (Under the direct sunlight on a summer day) | 5 hours | 36 minutes | 2 minutes |

The figures of "Time required for charging the watch to start moving at one-second intervals" are estimation 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.

## 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 a imes.


Under the following situations, the energy of the watch is likely to be depleted, resulting in stoppag of the watch:

- The watch is concealed under a sleeve

The watch is used or stored under conditions wher 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 $-10^{\circ} \mathrm{C}$ to $+60^{\circ} \mathrm{C}$.)

* When you firststart using the watch or starting it after it stopped due to a lack of charge, charge the watch sufficiently using the table on P. 38 as a guide.


## About energy

When the energy stored in the watch is running down, the seconds hand starts moving at twoecond 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 $\rightarrow$ P. 37
Guide to charging times $\rightarrow$ P. 38

- Stopwatch cannot be operated while the seconds hand is moving at two-second intervals (this is not a malfunction).
- If the seconds hand starts moving at two-second intervals while the stopwatch is counting, the stopwatch hands return to 0 minute 0 second to reset the measurement
- Alarm time setting cannot be carried out while the seconds hand is moving at two-second intervals.
- If the set alarm time is reached while the seconds hand is moving at two-second intervals, the alarm does not sound (the set alarm time will be disengaged)


## Power Source

The battery used in this watch is a special secondary battery, which is different from ordinary
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

 nvironment.In addition, long-term use may shorten the charge duration due to wear, contamination, lubrican deterioration of mechanical parts, etc. Request repair when the performance lowers.

## $\triangle$ WARNING

$\square$ 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.

EN 40

Performance and type
The case back shows the caliber and performance of your watch


- Magnetic resistant performance
- Water resistant performance

Please refer to P. 45
Case Number
The number to identify the type of your watch

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


## 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 After soally
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 daily use," please do not wash the watch and type" $\rightarrow$ P. 43
"Water resistant performance" $\rightarrow P .45$
- Turn the crown from time to time
- In order to prevent corrosion of the crown, turn the crown from time to time
"Crown" $\rightarrow$ P. 15
- Press the button once in a while
- Press the button once in a while to prevent corrosion of the button.


## 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" $\rightarrow$ P. 38 .

## $\triangle$ 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 $60^{\circ} \mathrm{C}$.


## Lumibrite

## If your watch has Lumibrite

Lumibrite is a luminous paint that absorbs the light energy of sunlight and lighting apparatuses in a short ime 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 Lumibrit 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 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 adap
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.
<Brightness levels>

| Condition |  | Illumination |
| :---: | :---: | :---: |
| Sunlight | Fine weather | 100,000 lux |
|  | Cloudy weather | 10,000 lux |
| Indoor (Window-side during daytime) | Fine weather | More than 3,000 lux |
|  | Cloudy weather | 1,000 to 3,000 lux |
|  | Rainy weather | Less than 1,000 lux |
| Lighting apparatus (40-watt daylight fluorescent light) | Distance to the watch: 1 m | 1,000 lux |
|  | Distance to the watch: 3 m | 500 lux (Average room luminance) |
|  | Distance to the watch: 4 m | 250 lux |

EN 44

Magnetic resistant performance

## Affected by nearby magnetism,

watch may temporarily gain or lose time or stop operating

| $\triangle$ DANGER |  |
| :---: | :---: |
| Indication on the case back | Condition of use |
| No indication | Keep the watch more than 10 cm away from magnetic products. |
| $\cap$ | Keep the watch more than 5 cm away from magnetic products. <br> (JIS level-1 standard) |
| ก | Keep the watch more than 1 cm away from magnetic products. <br> (JIS level-2 standard) |

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
emagnetization 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.

## Water resistant performance

Refer the table below for the description of water resistant performance of your watch before using (Please look at P.43.)

| Indication on the case back | Water resistant performance | Conditions of Use |  |
| :---: | :---: | :---: | :---: |
| No indication | Non-water resistance | Avoid drops of water or sweat |  |
| WATER RESISTANT | Water resistance for everyday life | The watch withstands accidental contact with water in everyday life. | $\triangle$ WARNING Please do not use it for swimming. |
| WATER RESISTANT 5 BAR | Water resistance for everyday life at 5-BAR water resistant | The watch is suitable for sports such as swimming. |  |
| WATER RESISTANT 10 (20) BAR | Water resistance for everyday life at 10 (20)-BAR water resistant | The watch is suitable for diving not using an air cylinder. |  |

## Band

The band touches the skin directly and becomes dirty with sweat or dust. Therefore, lack of car 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
(
Because some titan bands use pins made of stainless steel, which has outstanding strength, rust may form in the stainless steel part

- If rust advances, pins may poks our drep not open.
- If a pin is poking out, personal injury may result. In such a case, refrain from using the watch and reques repair

How to use tri-fold type clasp for leather band (Special clasps)
There are 3 types of special clasps as described below;
If the clasp of the watch you purchased is one of them, please refer to the indications.


## A A Type

(1)

Lift up the clasp to release the buckle

(2)

Open the flap.


Remove the pin from the adjustment hole. Slide the band left and right, and reinsert the pin into th adjustment hole at an appropriate length.
Fasten the flap.
Do not push the flap in too hard.


When fastening the clasp, insert the tip of the band into the movable loop and fixed loop, and then, securely tighten the clasp.

## B в тype



While pressing the push buttons on both sides of the flap, lift to open the clasp.

6


## C c type



Remove the pin from the adjustment hole. Slide the band left and right, and insert the pin into the adjustment hole at an appropriate length. Push the buckle and fasten the clasp.


How to wear or take off the watch
(1) While pressing the push buttons on both sides
of the flap, pull the band out of the movable loop and fixed loop. Then open the clasp.



Place the tip of the band into the movable loop and fixed loop, and fasten the clasp by pressing the frame of the buckle.


## After sales service

- Notes on guarantee and repair
- Contact the retailer from whom the watch was purchased or SEIKO CUSTOMER SERVICE CENTER for repair or overhaul.
- Within the guarantee period, present the certificate of guarantee to receive repair services.
- Guarantee coverage is provided in the certificate of guarantee

Read carefully and retain it.
For repair services after the guarantee period has expired, if the functions of the watch can be restored by repair work, we will undertake repair services upon request and payment

- Replacement with functional parts
- Please keep in mind that if original parts are not available, they may be replaced with substitutes whose outward appearance may differ from the originals.
- 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 atch itself to stop.
As the parts such as gasket may deteriorate, water-resistant performance may be impaired due to Please contact the retand moisture.
disassembly and cleaning (overhaul). For reptch was purchased for inspection and adjustment by 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


## Adjusting the preliminary position of the stopwatch hands

If any of the stopwatch hands do not return to the 0 minute 0 second position when the stopwatch is reset, the preliminary hand position may be misaligned.
The reference position of the stopwatch need 00 second $\cdot 0$ second $\cdot 0$ minute] (V176) respectively.
Adjusting the hands to the preliminary position will ensure that stopwatch measurements are correct.

The preliminary position may be misaligned due to the following reasons.

- In the case of a strong impact: Misalignment may occur when dropping or hitting the watch.
- In the case of a magnetic influence: Misalignment may occur when bringing the watch close to an object which generates magnetism.
"Examples of common magnetic products that may affect watches" $\rightarrow$ P. 47
* If the preliminary position adjustment is carried out, the watch gains or loses time. After adjusting the preliminary hand position, make sure to reset the main time and alarm time.

■ Adjusting the preliminary position of the stopwatch $1 / 5$-second and minute hands (V172, V174, V175)

## 1 Make sure that the watch is working.

Check that the seconds hand is moving at one-second intervals.
If the seconds hand is moving at two-second intervals or the seconds hand has stopped, charge the watch by exposing the dial of the watch to light. "Charging the battery" $\rightarrow$ P. 37
2
Pull out the crown to the second click.
The seconds hand will stop.
crown before operating it.


Pull out the crown to the second click.

3 Press and hold button A (for 3 seconds) until the stopwatch minute hand starts moving.
The stopwatch minute hand moves one full rotation, and the watch enters the preliminary position
adjustment mode of the stopwatch minute hand.

* If you do not know which hand is the stopwatch minute hand, refer to "Names of the parts and functions"
$\rightarrow$ P. 10, 11, 12, 13 .
4 Press button $B$ to reset the stopwatch minute hand to 0 minute.

| One minute | Press button B once and then |
| :--- | :--- | One minute

Advance Advance release it. Continuous When button B is kept pressed for | $\begin{array}{c}\text { Continuous } \\ \text { Advance }\end{array}$ | $\begin{array}{l}\text { two seconds or longer, the hand wil } \\ \text { start moving. When button B is }\end{array}$ |
| :---: | :--- |
| relas |  | released, the hand will stop.

If the stopwatch minute hand is reset to 0 minute, continue to procedure 5


EN 60

5 Press and hold button A (for 3 seconds) until the stopwatch $1 / 5$-second hand starts moving.
The stopwatch $1 / 5$-second hand moves one full
rotation, and the watch enters the preliminary position adjustment mode of the stopwatch $1 / 5$-second hand

## 6 Press button B to set the stopwatch $1 / 5$-second hand to 0 seconds.

| $1 / 5-$ second <br> Advance | Press button B once and then <br> release it. |
| :---: | :--- |
| Continuous <br> Advance | When button B is kept pressed for <br> two seconds or longer, the hand wil <br> start moving. When button B is <br> released, the hand will stop. |

If the stopwatch $1 / 5$-second hand is reset to 0 second, continue to procedure 7

7 Push the crown back in to the normal position.


## 8 Set the main time and alarm time.

"How to set the time and date" $\rightarrow$ P. 17
If the preliminary position adjustment is carried out, the main time and alarm time may gain or lose time When the main time and alarm time are set, the operation is completed.

- Adjusting the preliminary position of the stopwatch 1/20-second, second and minute hands (V176)


## 1 Make sure that the watch is working.

Check that the seconds hand is moving at one-second intervals.
If the seconds hand is moving at two-second intervals or the seconds hand has stopped, charge the watch by exposing the dial of the watch to light. "Charging the battery" $\rightarrow$ P. 37
2


## 3 Press and hold button $A$ (for 3 seconds) until the stopwatch $1 / 20$-second hand

 starts moving.The stopwatch $1 / 20$-second hand moves one full rotation, and the watch enters the preliminary position adjustment mode of the stopwatch $1 / 20$-second hand.

* If you do not know which hand is the stopwatch $1 / 20$-second hand, refer to "Names of the parts and functions" $\rightarrow$ P. 14 .


4 Press button $B$ to reset the stopwatch


5 Press and hold button A (for 3 seconds) until the stopwatch second hand starts moving.
The stopwatch second hand moves one full rotation, and the watch enters the preliminary position adjustment mode of the stopwatch second hand.


6 Press button $B$ to reset the stopwatch second hand to 0 second.

| One second <br> Advance | Press button B once and then <br> release it. |
| :---: | :--- |
| Continuous <br> Advance | When button B is kept pressed for <br> two seconds or longer, the hand will <br> start moving. When button B is |

stopwatch $1 / 5$-second hand is reset to 0 second, continue to procedure 7

7 Press and hold button A (for 3 seconds) until the stopwatch minute hand starts moving.
The stopwatch minute hand moves one full rotation, and the watch enters the preliminary position adjustment mode of the stopwatch minute hand.

## 8 Press button B to reset the stopwatch minute hand to 0 minute.

| One minute <br> Advance | Press button B once and then <br> release it. |
| :---: | :--- |
| Continuous <br> Advance | When button B is kept pressed for <br> two seconds or longer, the hand will <br> start moving. When button B is <br> released, the hand will stop. |

* If the stopwatch minute hand is reset to 0 minute, continue to the procedure 9 .


## 9 Set the main time.

How to set the time and date" $\rightarrow$ P. 17
If the preliminary position adjustment is carried out the main time may gain or lose time.
When the main time is set, the operation is completed.

## 10 Push the crown back in to the normal position.

## Troubleshooting



| Troubles | Possible causes | Solutions | Reference |
| :---: | :---: | :---: | :---: |
| The watch temporarily gains/ loses time. | The watch has been left in extremely high or low temperatures for a long time. | 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. | - |
|  | The watch has been left close to an object with a strong magnetic field. | 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. | - |
|  | You drop the watch, hit it against a hard surface, or wear it while playing active sports. <br> The watch is exposed to strong vibrations. | If accuracy does not return after setting the time, consult the retailer from whom the watch was purchased. | - |
| Any of the stopwatch hands do not return to the 0 minute 0 second position when the stopwatch is reset. | Any of the stopwatch hands are out of the preliminary position. This happens when the stopwatch hands are out of the preliminary position as a result of influence of various external sources or after the built-in IC is reset. | Adjust the preliminary position of stopwatch hands. | P. 58 |


| Troubles | Possible causes | Solutions | Reference |
| :--- | :--- | :--- | :--- |
| Although the <br> alarm time has not <br> been set, the <br> displayed alarm <br> time is different <br> from the main <br> time. The buttons <br> cannot be <br> operated (cannot <br> be pushed when <br> trying to do so). | The watch is left close to an object <br> with a strong magnetic field, hit hard, <br> or exposed to strong shocks or | Reset the time of the main time and <br> viarm time. | P. 17 |
| The buttons do <br> not work <br> (Nothing happens <br> when they are <br> pressed). | The power is low. |  |  |

## If the hands fail to move or move abnormally even after recharging

When the watch shows an abnormal display or does not properly function, or does not move at all or at one-second intervals even after being fully charged, follow the instructions below to reset all or at one-second intervals even after being fully charged, follo
the built-in IC. Then the watch will resume its normal operation.

## - Resetting the built-in IC

1 Pull out the crown to the second click.
The seconds hand will stop.
For models with screw down crown, please unlock the crown before operating it.


Pull out the crown to the second click.

2 Press and hold buttons A and B simultaneously for three seconds, and release.

3 Push the crown back in to the norma position.
The seconds hand immediately starts moving
If the seconds hand is moving at two-second intervals, fully charge the watch until it starts moving at one-second intervals. $\rightarrow$ P. 37

4 Adjust the preliminary position of the stopwatch hands, and then set the time and date.

- Adjusting the preliminary position of the stopwatch hands $\rightarrow$ P. 58
- How to set the time and date $\rightarrow$ P. 17

When the preliminary position of the stopwatch hands are reset, and time and date are correctly set, the operation of resetting the built-in IC is completed

Specifications

| Calliber number | V172 | V174 | V175 | V176 |
| :---: | :---: | :---: | :---: | :---: |
| 1. Features | Main time with 3 hands (hour, minute, second) Date display Stopwatch ( $1 / 5$-second and minute hands) Small alarm display (hour and minute hands) | Main time with 3 hands (hour, minute, second) 24-hour hand Date dispolay Stopwatch (1/5-second and minute hands) Small alarud display (hour and minute hands) | Main time with 3 hands (hour, minute, second) 24-hour hand Date display Stopwatch (1/5-second and minute hands) | Main time with 3 hands (hour, minute, second) Date display <br> Stopwatch (1/20-second, second and minute hands) |
| 2. Frequency of crystal oscillator | $32,7688 \mathrm{~Hz}$ (Hz= Hertz, cycles per second) |  |  |  |
| 3. Loss/gain (Monthly rate) | Loss/gain $\pm 15$ seconds on a monthly rate (Except the case when the watch is used without an automatic time setting by receiving a radio signal and when it is worn on the wrist within a normal temperature range between $5^{\circ} \mathrm{C}$ and $35^{\circ} \mathrm{C}$ ). |  |  |  |
| 4. Operational temperature range | $-10^{\circ} \mathrm{C} \sim+60^{\circ} \mathrm{C}$ |  |  |  |
| 5. Driving system | Step Motor | r, 4 pieces | Step Motor, 3 pieces | Step Motor, 4 pieces |
| 6. Power source | Secondary battery, 1 piece |  |  |  |
| 7. Duration | Approx. 6 months (if the stopwatch is used for 1 hour per day, and the alarm is used one time to sound for 20 seconds per day) |  |  | Approx. 6 months (if the stopwatch is used for 1 hour per day) |
| 8. IC (Integrated Circuit) | Oscillator, frequency divider and driving circuit C-MOSIC, 1 piece |  |  |  |

The specifications are subject to change without prior notice due to product improvements.
EN 72


[^0]:    By locking the crown by screw, a screw down crown can prevent malfunction and increase water resistance. * Be careful not to screw the crown in by force as it may damage the slots of the crown.

[^1]:    * Some models may not have a tachymeter.

