# GS <br> Grand Seiko 

INSTRUCTION MANUAL FOR WATCH CALIBRE
9 S86


Thank you very much for choosing a Grand Seiko watch. For proper and safe use of your Grand Seiko watch, please read the instructions carefully in this booklet before using it.

## Keep this manual handy for easy reference

Bracelet sizing is available at the retailer from whom the watch was purchased. If you cannot have your watch band sized by the retaile firom whom the watch was purchased because you received the watch as a gift, or you moved to a distant place, please contact Grand Selko internationa senice network mentione on CERTIFCATE OF GUARANTEE or our website. The service may also be avaiable 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, dit, swe dust, of moisture may be attached to the film and may cause rust.

## CONTENTS

INTRODUCTION Aboument
ON -About mechanical wat
For lifelong us mechanical watch.................................................... 3

- UUTIONS FOR ACCURACY .

CAUTIONS FOR ACCURACY
CHECK THE CALIBER ....
CHECK THE CALIBER NUMBER AND WATER-RESISTANT LEVEL.............. 10
CAUTIONS ON WATER RESISTANCE
NAMES OF THE PARTS

- HOW TO USE

FOR CAL. 9S85, 9S68, 9S65, 9S27
*List of time zone diffen.......................................................................... 22
※List of time zone differences in major regions of the world ...................... 28
- FOR CAL. 9S64, 9S63.
- FOR CAL. 9561
.31
.32
.
IFUNCTIONS OF DIVER'S MODEL ............................................................. 32

- Cautions for accuracy of mechanical watch...
-TO PRESERVE THE QUALITY OF YOUR WATCH
- After-sale service
- Guarantee
- Daily ca
. .41
.42
.
- Magnetic resistance (Magnetic influence) . .43
- Lumibrite...
. 44
■SPECIFICATIONS (Movement)
.45
.46


## INTRODUCTION -About mechanical watch-

Thank you very much for purchasing the Grand Seiko mechanical watch.
Take hold of your watch softly.
Hear the watch ticking
tick tock, tick tock, tick tock,
soft and faint, a dignified sound can be heard
The sound can be called
the crystal of the craftsmen's spirit and skill.
Handpicked parts assembled one by one,
carefully, with craftsmanship,
giving life to a mechanical watch
This is proven by the sound.
Talking about accuracy,
mechanical watches cannot be compared to
quartz watches, that is for certain.
However, the accuracy of a mechanical watch
is pursued by human hands.
Full of spirit and know-how of craftsmen.

A mechanical watch - complicated, sensitive,
and having a human touch.
We would like to let all of you know
the charm of a mechanical watch, which has no bounds.
So we made this handbook, mainly detailing the accuracy.
Wishing you will have a nice time
with your Grand Seiko for a long, long time.

SEIKO WATCH CORPORATION

Quartz watches and mechanical watches - what is the difiference?

We will explain by example
Quartz watches that you have come to be
familiar with familiar with.
These are just like airplanes, controlled by computers.
A battery, IC, and crystal make quartz watches work accurately, electrically.
Some loss or gain may occur while the watch is worn. Hour daily life.
If a quartz watch resembles an If a quartz watch resembles an airplame
a mechanical watch is like a bicycle.

The accuracy is shown by the daily rate

5

All watch parts work together mechanically to make it tick.
hys, a mechanical watch is easily affected
it is hot, the watch tends to lose timeWhen power driving the watch becomes short (when the amount the spring is wound is short), accuracy becomes unstable.
the resting position of the watch is changed, accuracy is also affected.

The rate of loss/gain could be significant that you will notice in your daily life.


The measured loss/gain of the watch per day This is called the dally rate.
The accuracy of a mechanical watch
is usually shown in this daily rate.
The accuracy of a mechanical watch changes delicately day by day, depending on the condition in which the watch is used utside environment.

Thus,
By only observing loss/gain in one day, you cannot judge how accurate the watch works. If you check the average of the daily loss/gain rate, you can judge the accuracy of the watch.
In the case of quartr watches, the accuracy is usually
shown by the monthly/yearly rate.
Thotal lossess/gains for ar a monthtyear are called the loss/
shate Toain losses/gains for a mon


## Mean daily rate / Normal usage accuracy

The accuracy of a mechanical watch varies depending on many things,
such as the amount the spring is wound by movements of your arm, temperature, or resting position of the watch.
Thus to show the accuracy of a mechanical watch evenly, not depending on the environment,
loss/gain of a mechanical watch is measured
before the inside movements of the watch are put in the case,
under controlled conditions,
with many days of tests.
And the measured rate is called "mean daily rate"
the standard rate is mean dally rate.
$\Rightarrow$ "THE GRAND SEIKO STANDARD" page 34


This rate is the data measured in an environment that is artificially controlled,
in order to fairly evaluate/show the abities of mechanical watches without being influenced by environmental changes.
So it is different from "normal usage accuracy"
when you are actually wearing the watch.
The accuracy of a mechanical watch varies delicately day by day, depending on the environment.
his is like a living thing,
ne of the charms that a mechanical watch has.
 and $9855,-5$ to +10 seconds for Col. 9227 ) /day. If the average of the dalily rates exceeds this level, we
would like the espponsibility for adjusting it accordingly (The cost of adiusting the watch is free of charge would ike the e esponsibility tor aduusting it
for three years trom the date of purchase.)
o adiust the accuracy as accurately as possibbe, information such as the rate of loss/gain of your watch
and how you use it, are very important. Please let us kal your watch by our senice center.

1) The average daily loss/gain rates for one week to ten dazs
(2) Approximate hours of wearing the watch in one day in the above period
(3) Ex. Approximately 10 hours
(3) Ex resting position of the watch while you don't wear it

Ex. Horizontal - Dial up
For lifelong use of your mechanical watch rule No. 1

## Wind the mainspring of your mechanical watch at a fixed time.

As there are rules for eversthing there is arule for winding the spring

You have not heard this before?
Please keep it in mind.
The mainspring - the source of energy for mechanical watch
When it is fully wo
When it is wound, it can supply the most stable energy to every part of the watch movement, and the


Even if your watch is a selw
Even if your watch is a self-winding type, when you feel the accuracy is not stable,
shake the watch or turn the crown to wind the mainspring further.
If you work at a desk, etc., and do not move too much,
the spring will not be wound sufficiently.

## For lifelong use of your mechanical watch rule No. 2

## Place your watch correctly, like this



Half of one day, twenty-four hours,
when you do not wear your watch.
When you do not wear your watch.
The accuracy whie you do not wear the watch is included in "normal
usage accurracy".
Whe mechanical watch that you take off
The loss/gain of mechanical watch
depends on the resting postion of the watch
In one postion, the watch tends to gain, in another position, it doesn't
For instance, while you are sleeping at nigh
when you do not wear your watch,
put the watch v varius positions for seven to eight hours, such as
lacino it with its face turned up or with the crown to find the best resting postion for the watch for reducing the loss/ gain that occurs while you are wearing your watch.

## For lifelong use of your mechanical watch rule N 0.3

## Accuracy will vary depending on the temperature.

A piece of metal of about 0.1 mm , as
in as a hair, is wound.
That is the key that controls the accuracy of all mechanical watches.

In other words,
When it is hot, the balance spring expands and the watch tends to lose. contracts and the watch tends to gain This is typical.

$\qquad$

Metals expand and contract depending on the temperature.
This characteristic of all metals also applies to the balance spring.
This affects the accuracy of a mechanical watch.


For lifelong use of your mechanical watch rule No. 4
Keep your mechanical watch away from magnetic objects.
After you take off your watch,
do you leave it by your cell phone?
do you leave it by your cell phone?
Or put it on a television or next to your PC?
Do you put it in your bag with your cell phone?
Watches do not like magnetism.
They may lose or gain when affected by magnetism.
To make your mechanical watch work more accurately.
ti important not to leave the watch close to magnetic objects for a long time.
in particular, cell phones, televisions and speakers of PCs have strong magnetism. A magnetic necklace, a clasp of a handbag, magnetic parts of refrigerators, there are many magnetic objects around us Please be careful.

For lifelong use of your mechanical watch rule №. 5

## Do not give your mechanical watch a strong shock

When you play golf, tennis or aseal.

When you play a sport that gives your arm a strong impact.
Please take off your mechanical watch.

There are reasons for this.
or instance,
the moment you hit a golf ball with a cub
he impact of the ball against the club is about 1 ton
he impact is given to your wrist,
and this will affect very small parts inside your mechanical watch.

Sometimes, the impact will deform or break a watch part.
Good shot" for you becomes "bad shock" for your watch.


## For lifelong use of your mechanical watch rule No. 6

## Overhaul, once every three years

## ove your watch, once every three years.

Talk about an overhaul.
In the case of a mechanical watch, there is no need to change your battery.
maintenance of your watch is also necessary.
Once every three years,
please take your watch, to our senvice center for examining and cleaning every part of your

Once you start using it,
your watch never takes a rest.
And in the case of a mechanical watch, power given to its gear is stronger, compared to a quartz watc
So parts may wear,
oil may dry or be insufficient in some parts.

Especially
he first three years after you start using your watch is the
period when each part gets used to one another,
and contacting each other causes additional metal powde
The first overhaul is
he key to the life of your mechanical watch.
Please keep in mind
an overhaul, once every three years
can be considered
ve for your watc


## CAUTIONS FOR ACCURACY

O Normal usage accuracy of a mechanical watch varies depending on individual customer's use conditions such as winding state of the mainspring by movement amount of the
customer's arm per day, temperature environment, and position (orientation of a watch). Accordingly, the actual normal usage accuracy when the watch is used by a customer may differ from the numerical value of each item specified in the Grand Seiko Standard. O The target range of normal usage accuracy when the watch is actually used by a customer is set to -1 to +10 seconds $(-1$ to +8 seconds for Cal. 9586 and $9 S 85,-5$ to +10 seconds for Cal. 9S27) per day.
lo correctly judge the normal usage accuracy, please use the watch for not only one day, or gain of time. If the average value per day exceeds the target range, we will adjust the watch. (Adjustment is provided Free of charge for three years after purchase, then charged thereafter. For more details, please refer to the instruction manual.)
O The enclosed Grand Seiko Standard Inspection Certificate certifies the values of a movement single unit before assembly in a case which are measured under an artififially controlled
Inspection.
Inspection.
Should the certificate be lost or after repair or adjustment, it cannot be reissued.

## HANDLING CAUTIONS

To indicate the risks of serious consequences such as severe injurie nless the following safety regulations are strictly obsenved.

Immediately stop wearing the watch in the following cases.
OIf the watch body or band becomes edged by corrosion etc.
※ Immediately consult the retailer from whom the watch was purchased or Grand Seiko international service network mentioned on CERTIFICATE OF
GUARANTEE or our website.

## 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

CAUTIONS To indicate the risks of light injuries or material damages unless
Avoid wearing or storing the watch in the following places.
Places where volatile agents (cosmetics such as polish remover, bug repellent, thinners etc.) are vaporizing

- Places where the temperature drops below $5^{\circ} \mathrm{C}$ or rises above $35^{\circ} \mathrm{C}$ for a long time Places of high humidity Places affected by strong magnetism or static electricity
If you observe any allergic symptoms or skin irritation
Stop wearing the watch immediately and consult a speciaists such as a dermatologist or an allergist.
Other cautions
Replacement of the metal band requires professional knowledge and skill. Please ask the retailer from whom the watch was purchased for replacement of the metal band, as there is a risk of hand or finger iniury and fear of losing parts.
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 iniury 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.
O Please keep in mind that if a watch is taken off and placed down as it is, the case back, the band and the clasp will rub against each other possibly causing scratches on the case back. We recommend placing a soft cloth between the case back, the band and the clasp ater taking off your watch.

About the caliber number
The caliber number is a four-digit number that indicates the model of a movement mechanical part of a watch). The Grand Seiko watth is mounted with an exclusive novement. The mechanical caliber number starts with " $9 S^{\prime \prime}$ ", the spring drive caliber
How to check the caliber number
The four-digit model number on the case back is the caliber number.
<Regular case back> <See-through case back> <Diver's watch case back>


* The above illustrations are examples and may differ from the case back of the watch you purchased.


## Water resistance

Refer to the table below for the description of each degree of water resistant performance of your watch before using.

| Indication on the case back | Water resistant performance | Conditions of Use |
| :---: | :---: | :---: |
| No indication | Non-water resistance | Avoid drops of water or sweat |
|  |  | The watch withstands accidental contact with water in everyday life |
| WATER RESISTANT | life | $\triangle$ WARNING <br> Not suitable for swimming |
| WATER RESISTANT 5 BAR | Water resistance for everyday life at 5 barometric pressures | The watch is suitable for swimming |
| $\begin{aligned} & \hline \text { WATER RESISTANT } \\ & 10 \text { (20) BAR } \\ & \hline \end{aligned}$ | Water resistance for everyday life at 10 (20) barometric pressures | The watch is suitable for diving not using an air cylinder. |
| DIVER'S WATCH 200 m AIR DIVER'S 200 m | The watch can be worn for diving using a compressed air cylinder and can withstand water pressure to a depth of 200 meters. | The watch is suitable for genuine scuba diving use. |
| DIVER'S WATCH 600 m for saturation diving He GAS DIVER'S 600 m | The watch can be worn for diving using helium gas and can withstand water pressure to a depth of 600 meters. | The watch is suitable for saturation diving. |

He GAS DIVERS 600 m .

ICAUTIONS ON WATER RESISTANCE

## $\triangle$ CAUTIONS

## Do not turn or pull out the crown

 when the watch is wet.. If the inner surface of the glass is clouded with . If the inner surface of the glass is clouded with condensation or
water droplets appear inside of the watch for a long time, the Immediately consult the retailer from whom the watch was purchased or Grand Seiko international service network mentioned on CERTIFICATE OF GUARANTEE or our website.


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 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.

If water-resistant level of your watch is defined as "WATER RESISTANT"
4. WARNING

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 special watches (barometric pressure) display. For diving, use special watches
for diving.

## $\triangle$ CAUTION



Do not pour running water directly from the faucet.
The water pressure of tap water from a faucet is high enough to degrade the water resistant performance of a water resistant watch for everyday life.

## If water-resistant level of your watch is defined as

"DIVER'S WATCH 200 m " or "AIR DIVER'S 200 m "
§WARNING O Never use the watch in saturation diving using helium
gas.
While diving, never operate the watch in any other
manner than described in this instruction manual. manner than described in this instruction manual.
$\triangle$ CAUTION $\quad \begin{aligned} & \text { Before using the diver's watch, you have to be properly } \\ & \text { trained in various types of diving and possess the requisite } \\ & \text { experience and skill to dive safely, when diving strictly }\end{aligned}$ abide by the rules of diving. abide by the rules of diving.

If water-resistant level of your watch is defined as "DIVER'S
WATCH 600 m for saturation diving" or "He GAS DIVER'S 600 m "
§WARNING OThis product is compatible with saturation diving. Do not use this product for saturation diving unless you have
acquired the requisite experience and techniques for safe saturation diving. thoroughly familiarized yourself with the operation and handing of this product, and inspect all functions of this product prior to each dive.
Make sure you carefully check the depth rating indicated on the watch dial or on the case back, and never use the watch underwater deeper than the specified depth. While diving, never operate the watch in any
manner than set forth in the instruction manual.
\CAUTION $\begin{aligned} & \text { Before using the diver's watch, you have to be properly trained in } \\ & \text { various types of diving and possess the requiste experiance and }\end{aligned}$ various types of diving and possess the requisite experience and
skill to dive safely. When diving, strictly abide by the rules of diving.

## Precautions for diving

Before diving
Inspect the following items before
diving.
$\Rightarrow$ "NAMES OF THE PARTS" page 15
(1) The time is correctly set
(2) Turn the crown to wind up the watch.

* "Screw down crown" $\rightarrow$ page 18 $\rightarrow$ page 20
(3) The rotating bezel turns smoothly. The bezel rotation must not be too loose or too tight.)
$\Rightarrow$ "Unidirectional rotating bezel" page 32.
(4) The crown is completely screwed in.
$\Rightarrow$ "Screw down crown" page 18 .
(5) No abnormalities such as flaws or
cracks exist on the band or glass.
(6) The band is reliably fixed with spring
bars, buckles or other parts.


1. CAUTION If you notice any abnormalities, contact the retailer from whom the watch was purchased or Grand Seiko international service network mentioned on CERTIFICATE OF GUARANTEE or our website.

While diving
Make sure to observe the following instructions when you wear the watch while diving.


Wear the watch within the water depth indicated on the dial.


Take care not to bump the Bezel rotation may become Take care not to bump the Bezel rotation may become
watch against hard objects slightly harder underwater, but such as rocks.


Do not operate the crown or buttons underwater
 this is not a malfunction.

## After diving

Please follow the care instructions below after diving.


Rinse the watch in fresh water and wipe it thoroughly dry.
Do not pour running water directly from a faucet onto the watch. Soak the watch in a container filled with water to wash it.

## - NAMES OF THE PARTS

## 9S85, 9S68, 9S65, 9S27 (Regular models)



9 S85 (Diver's models)


[^0]$\Rightarrow$ ""CUNCTIONS OF DIVER'S MODE
$\Rightarrow$ "Precautions for diving" page 13.


9S86, 9S66


9S64, 9 S61

$\Rightarrow$ "How to set the time" page 30 .

9563

$\Rightarrow$ "How to set the time" page 30 .
※ The orientation and design of the display may vary depending on the model.

NAMES OF THE PARTS

## IHOW TO USE

## Crown

There are two types of crowns, a normal crown and a screw down crown.


## Screw down crown

The screw down crown features a mechanism that can securely lock the crown when they are not being operated in order to prevent any operational errors and to improve its water resistant property.
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
( 6 o'clock direction) to unscrew it. Now the crown can be operated.

[ To lock the crown]
Turn the crown clockwise (12 o'clock direction) while gently pressing it in toward the watch body until it stops. toward the watch body until it stops.

Crown
unlocked


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.

## Power reserve indicator

The power reserve indicator lets you know the winding state of the mainspring.

Before removing the watch from your wrist, observe the power reserve indicator to check if the watch has stored enough power to keep running until the next time you wear it. If necessary, wind the mainspring.
(To prevent the watch from stopping wind the mainspring to store the excess power that will allow the watch to run for extra time.)

※ The continuous operating time of the watch may vary depending on the condition of use, such as the number of hours you wear the watch or the ※ In a case where you wear the watch
the power reserve indicator to check the level of the remaining power. If
the necessary, manually wind the mainspring.

How to read the power reserve indicator


## HOW TO USE (FOR CAL. 9S85, 9S68, 9S65, 9S27)

## How to wind the mainspring

This watch is an automatic winding type (with manual winding function).
The mainspring can be sufficiently wound automatically by natural The mainspring can be sufficiently wound automatically by natural be wound by turning the crown.
O A stopped watch can be started by arm movement when it is worn on the wrist, however, before wearing the watch, wind the mainspring sufficiently and set the time and date. When winding the mainspring, turn the crown at the normal position clockwise ( 12 o'clock direction) slowly. If you turn the crown counterclockwise ( 6 o'clock direction), it will turn free. The mainspring is sufficiently wound when the crown is turned approximately 45 times ( 60 times for Cal. 9 S 68 and $9 \mathrm{~S} 65,30$ times for Cal. 9S27). When the mainspring is in the full-winding state, it is designed so that the mainspring slips if it is overwound. Therefore, it is not necessary to worry about
It is recommended that you wear the watch on your wrist more than 10 hours a day
※ It is recommended that you wear the watch on your wrist more than 10 hours a day
to keep the mainspring wound up. If the mainspring is not wound up sufficiently, the watch may lose or gain time. If you do not wear the watch on your wrist, wind the mainspring up sufficiently by turning the crown by hand every day at a fixed time

## ©CAUTION

O Do not set the date between 10:00 p.m. and 1:00 a.m. (between 11:00 p.m. and 1:00 a.m. for Cal. 9S27). If the date is set during this period of time, the date may not change when the next day comes, or this may cause damage. watch correctly, the hands should be set back once slightly and then set forward to the correct time.

## How to set the time and date

This watch is equipped with the date display function. The date changes once every 24 hours at around 12:00 a.m. Therefore, if the a.m./p.m. is incorrectly set, the date will change around 12:00 p.m.
(1) Pull out the crown to the first click. (If the watch is equipped with the screw down crown, unscrew the crown before pulling it out.)
(2) The date can be set by turning the crown clockwise ( 12 o'clock direction). First turn the crown date from the desired date appears.
[Ex.] If you want to set the date to 6," set the date to " 5 " by turning the crown clockwise.

(3) Pull out the crown to the second click when the seconds hand is at the 12 o'clock position. (The seconds hand stops.) Turn the crown the desired date appears. When the date changes, the time is a.m. Further turn the crown to set the current time.
4) Push the crown back into the normal position in accordance with a time signal. The watch starts operating.

$\triangle$ CAUTION For models with a screw down crown, remember to screw the crown in.

Date adjustment at the end of the month
It is necessary to adjust the date after February (which has 28 days, 29 days in a leap year) and a 30 day month.
[Ex.]
To adjust the date in the a.m. period on the first day of a month following a 30-day month
On the first day, " 31 " is displayed Pull out the crown to the first click lurn the crown clockwise ( 12 o'clock arection) to sel be in the , and position.


CAUTION For models with a screw down crown, remember to screw the crown in.

## HOW TO USE (FOR CAL. 9S86, 9S66)

## How to wind the mainspring

This watch is an automatic winding type (with manual winding function).
The mainspring can be sufficiently wound automatically by naturral movement of the arm while normally worn on the wrist. In addition, it can be wound by turning the crown. O stopped watch can be started by arm movement when it is worn on the wrist, however, before wearing the watch, wind the mainspring sufficiently and set the time and date. When winding the mainspring, turn the crown at the normal position clockwise ( 12 o'clock direction) slowly. If you turn the crown counterclockwise ( 6 o'clock direction), it will turn free. The mainspring is sufficiently wound when the crown is turned approximately 45 times ( 60 times for Cal. 9S66). When the mainspring is in the full-winding state, it is designed so that the mainspring slips if it is overwound. Therefore, it is not necessary to worry about breaking the mainspring, however, please refrain from excessive operation.
※It is recommended that you wear the watch on your wrist more than 10 hours a day to keep the mainspring wound up. If the mainspring is not wound up sufficiently, the watch may lose or gain time. If you do not wear the watch on your wrist, wind
mainspring up sufficiently by turning the crown by hand every day at a fixed time.

## How to set the time and date

To set the time and date, set the 24 -hour hand and minute hand first, and then set the hour hand and date
When setting the time, make sure that the mainspring is sufficiently wound.

## How to set the time

(1) Make sure that the mainspring is sufficiently wound and the watch is working.
※ When setting the date and time, ensure that the watch is working.
(2) Unlock the crown.
$\Rightarrow$ "Screw down crown page 18.
(3) Pull out the crown to the second click when the small seconds hand is pointing at the " 0 " second position. The small seconds hand will stop on the spot.

(4) Turn the crown counterclockwise ( 6 o'clock direction) to rotate the 24 -hour hand and minute hand clockwise and set them to the current time. While doing so, set the minute hand a few minutes behind the correct it to the desired time.

* Only the 24 -hour and minute hand are to be set first. Even if the hour the date may be altered depending on the position of the hour hand,
is not necessary to make an adjustment at this stage
(5) Push the crown back in simultaneously with the time signal.
※ The setting of the 24 -hour, minute and seconds hands The setting of the

(6) To move on to the hour hand and date setting, pull the crown out to the first click.


## How to set the date

Two full rotations of the hour hand wili change the date for one day
The date advances one day by turning the hour hand two full rotations
clockwise (for 24 hours), while the date is set back one day by turning the
hour hand two full rotations counterclockwise hour hand two full rotations counterclockwise.

* Manual date adjustment is required on the first day after a month that has less than 31 days: February, April, June, September and November.
(1) Make sure that the mainspring is sufficiently wound and the watch is working.
※ When setting the date and time, ensure that the watch is working.
(2) Unlock the crown.
$\Rightarrow$ "Screw down crown" page 18.
(3) Pull out the crown to the first click
(4) Each time the hour hand makes two full rotations by turning the crown, the date is adjusted one day. While turning the crown, the moment the date changes is midnight. When setting the hour hand, be sure that a.m./ p.m. is set correctly.


Turning the crown clockwise (12 o'clock direction):
Each time the hour hand makes two full rotations, the date is advanced one day.

※The crown can be turned in either direction to set the date, however, it is recommended to turn the crown in the
direction which enables you to set the direction which enables you t.
※ Turn the crown slowly.
※ When setting the hour hand, the other hands, the other hands may move slightly.


Turning the crown counterclockwise (6 o'clock direction)
Each time the hour hand makes two full rotations, the date is set back one day.
(5) Upon completion of setting, make sure that the time indicated is correct and then push the crown back in. The date setting is now completed. Relock the crown
$\Rightarrow$ "Screw down crown" page 18
※ The date is designed to work in conjunction with the movement of the hour hand, therefore, incorrect setting of a.m./p.m. will cause the date to change
noon. recommended to turn the crown in the direction which enables you to set the date with a smaller adjustment.
※ Turn the crown slowly, checking that the hour hand moves in one-hour increments.
When setting the hour hand, the other hands may move slightly. However, this is not a malfunction.

## How to use the 24-hour hand

This watch has two different types of 24 -hour hand usage.
<Type 1> 24-hour hand as an a.m./ p.m. indicator

Simply using the 24 -hour hand to show the 24 -hour time as an a.m./ p.mage type for the 24-hour hand.)

Both the hour hand and the 24hour hand are indicating the Japan time 10:00 a.m.

<Type 2> 24-hour hand as a dual time indicator Using the time difference adjustment function, set the 24 -hour hand to indicate a time different from the time which is of a place in a different time zone area with at least one hour of time difference from where you are.

Hour hand: Japan time 10:00 a.m. 24-hour hand: London time 1:00 a.m


## Time difference adjustment function

For example, while traveling abroad and staying in a place with a different time from where you live, you can conveniently set the watch to indicate the local time in the different time zone area without stopping the watch.
The hour hand indicates the time of the place where you currently are, while the 24 -hour hand indicates the time of the place of origin
the hour hand. If the time
displays the correct date of the place where you are staying.

## How to use the time difference adjustment function

(1) Make sure that the mainspring is sufficiently wound and the watch is

> working.
※ When setting the hour hand to use the time difference adjustment function, ensure that the watch is working.
(2) Unlock the crown.
$\Rightarrow$ "Screw down crown" page 18 .
(3) Pull out the crown to the first click.

(4) Turn the crown to set the hour hand to indicate the time of the place where you are staying. Make sure that a.m./p.m. and date are correctly set.
※ The date is designed to work in conjunction with the movement of the hour hand, therefore, incorrect setting of a.m./p.m. will cause the date to change at noon.
"List of time zone differences in major regions of the world" page 28.

※ The crown can be turned in either direction to set the time, however, it is recommended to turn the with a smaller adjustment.

* While trown slowly, checking that the hour hand moves in one-hour increments. While turring the crown, the moment the date changes is midnight.
a malfunction. a malfunction.
(5) Upon completion of setting, make sure that the time indicated is correct and then push the crown back in. The setting procedure is now completed. Relock the crown.
$\Rightarrow$ "Screw down crown" page 18
※ If you set the time during any time between 9:00 p.m. and 1:00 a.m., temporarily set the hour hand back to 8:00 p.m., and then set the time.


## Selectable display mode

With the time difference adjustment function, the watch features a dual time display which shows time in two different time zones. It offers two display modes which you can select to suit your needs and preference.

[Ex.1]
Hour hand and date: Area A (Japan)
24-hour hand: Area B (London)

[Ex.2] Hour hand and date: Area B (London) 24-hour hand: Area A (Japan)

Set the 24 -hour hand first, and then set the hour hand.

List of time zone differences in major regions of the world

| Names of the cities | UTC $\pm$ (Hours) | JST $\pm$ (Hours) | Other cities in the same region |
| :---: | :---: | :---: | :---: |
| Tokyo | +9:00 | $\pm 0: 00$ | Seoul |
| Beijin | +8:00 | -1:00 | Hong Kong, Manila, Singapore |
| Bangkok | +7:00 | -2:00 | Jakarta |
| Dacca | +6:00 | -3:00 |  |
| Karachi | +5:00 | -4:00 | Tashkent |
| Dubai | +4:00 | -5:00 |  |
| Jeddah | +3:00 | -6:00 | Nairobi, Mecca |
| Cairo | +2:00 | -7:00 | $\star$ Athens |
| $\star$ Paris | +1:00 | -8:00 | $\star \text { Rome, } \star \text { Berlin, }$ ¿Madrí |
| $\star$ London | $\pm 0: 00$ | -9:00 | $\star$ Casablanca |
| $\star$ Azores | -1:00 | -10:00 |  |
| $\star$ Rio de Janeiro | -3:00 | -12:00 |  |
| Santo Domingo | -4:00 | -13:00 |  |
| $\star$ New York | -5:00 | -14:00 | $\star$ Montreal |
| $\star$ Chicago | -6:00 | -15:00 | $\star$ Mexico City |
| $\star$ Denver | -7:00 | -16:00 |  |
| $\star$ Los Angels | -8:00 | -17:00 | $\star$ San Francisco |
| $\star$ Anchorage | -9:00 | -18:00 |  |
| Honolulu | -10:00 | -19:00 |  |
| Midway Island | -11:00 | -20:00 |  |
| $\star$ Wellington | +12:00 | +3:00 | Fiji |
| Nouméa | +11:00 | +2:00 |  |
| *Sydney | +10:00 | +1:00 | Guam |

* UTC = Coordinated Universal Time / JST = Japan Standard Time
※ UTC = Coordinated Universal Time / JST = Japan
※ Regions marked with $\star$ use daylight saving time
※ The time zone differences and use of daylight saving time in each city are based on data as of October, 2018. These are subject to change according to the governments of the respective countries or regions.

HOW TO USE (FOR CAL. 9S64, 9S63)

## How to wind the mainspring

This watch is a manual winding type.
O In order to wind it up completely, please refer to the following table

| In case the watch is supposed | About 20 turns of the crown will wind up |
| :--- | :--- | $\begin{array}{ll}\text { to be wound up every day. } & \text { About watch fully. } \\ \text { the }\end{array}$


| $\begin{array}{l}\text { In case the watch was not wound } \\ \text { up more than three days. }\end{array}$ |  |
| :--- | :--- |

up more than three days.
About 60 turn
O For Cal. 9S63 models, look at the power reserve indicator to check the winding state (remaining power).
$\Rightarrow$ "Power reserve indicator" page 19
O From the state of the mainspring being sufficiently wound, it continuously operates for approximately 72 hours or more.
O If the mainspring is not wound up sufficiently, the watch may lose or gain time. To attain a high accuracy, we suggest that the mainspring is wound up fully once a day at a fixed time.
Generally speaking, the crown of the manual winding mechanical watch cannot be turned further when it is wound up fully. However, the crown of the Cal. 9S64 and 9S63 can be turned endlessly even after the watch is fully wound up. If you keep turning the crown, that gives no effect to winding, but the watch is so designed as to make the winding a little tighter and not to damage the watch. However, please refrain from excessive operation.
※ When the watch is used from a state in which the mainspring is unwound to a stop, it does not move immediately even if the mainspring is wound with the winding crown.
This is because of the mechanical watch's feature that the mainspring toraue (force) is This is because of the mechanical watch's feature that the mainspring torque (force) is the mainspring is wound to reach a certain degree of toraue strength, while the watc can be made to move advance by shaking it to rotate the balance wheel forcibly

Do not pull out the crown. (If the watch is equipped with the screw down crown, unscrew the crown before pulling it out.)


Slowly turn the crown clockwise (12 o'clock direction) to wind the mainspring.

$\triangle$ CAUTION For models with a screw down crown, remember to screw the crown in

## How to set the time

(1) Pull out the crown when the seconds hand is at the $120^{\prime}$ 'lock position.
(The seconds hand stops.)
Turn the crown to set the current time.
(2) Push the crown back in to the normal position in accordance with a time signal.
※ The orientation and design of the display may vary depending on the model.

## HOW TO USE (FOR CAL. 9S61)

## How to wind the mainspring

This watch is an automatic winding type (with manual winding function) The mainspring can be sufficiently wound automatically by natura movement of the arm while normally worn on the wrist. In addition, it can be wound by turning the crown.
O A stopped watch can be started by arm movement when it is worn on the wrist, however, before wearing the watch, wind the mainspring sufficiently and set the time. When winding the mainspring, turn the crown at the normal position clockwise (12 o'clock direction) slowly. If you turn the crown counterclockwise ( 6 o'clock direction), it will turn free. The mainspring is sur maing sips if is overwoud There, it is not recessy to wory mainspring slips if it is overwound. Therefore, it is not necessary to worry about breaking the mainspring, however, please refrain from excessive operation.
※It is recommended that you wear the watch on your wrist more than 10 hours a day to keep the mainspring wound up. If the mainspring is not wound up sufficiently, the watch may lose or gain time. If you do not wear the watch on your wrist, wind

## $\triangle$ CAUTION

O For models with a screw down crown, remember to screw the crown in.
Due to its gear train mechanism, for setting the time of the mechanical watch correctly, the hands should be set back once slightly and then set forward to the correct time.

## How to set the time

(1) Pull out the crown when the seconds
position.
(The seconds hand stops.)
Turn the crown to set the current time.
(2) Push the crown back in to the
normal position in accordance
with a time signal.
The watch starts operating.


## FUNCTIONS OF DIVER'S MODEL

## Unidirectional rotating beze

By using the rotating bezel, you can measure the elapsed time since the start of an event or an activity such as diving.

This watch has a unidirectional rotating bezel. As the evaluation of the remaining air in your cylinder is based on the information of the elapsed time of the dive, the rotating bezels for a diver's watch is designed to rotate only counterclockwise, so that the

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 use the rotating bezel

(1) At the start of the activity, 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
(2) Read the graduation on the rotating bezel to which the minute hand is pointing.
(Ex.] When you start diving at 10:10



Rotating direction of the bezel to which the minute hand is pointing.

## Slide adjuster

If your watch has a metal bracelet equipped with a slide adjuste mechanism, you can easily adjust the bracelet length by yourself. This is very useful when you wear the watch over a wetsuit or heavy winter clothing.

## How to use the slide adjuster

(1) Lift up the flap approximately $90^{\circ}$ and press it down further
approximately $20^{\circ}$, and hold it there.
※ You may feel slight resistance, but doing this requires only a light force.
Please do not push the flap down forcibly.
(2) Lightly pull the bracelet on the 6 o'clock side of the watch along the curved line of the bracelet
※ Again, doing this requires only a light force. Please do not pull the bracelet forcibly. ※ The slider can be pulled out approximately 30 mm . Be careful not to pull it out beyond the limit mark inscribed on it.

(3) Holding down the push button, lift up the clasp to release the buckle, and strap the watch on your wrist.
Win
With the hand which is not wearing the watch, adjust the length of the slider so that the watch fits well around your wrist.


## THE GRAND SEIKO STANDARD

Your Grand Seiko watch is built to the very highest standards to ensure that it keeps time as accurately as possible. In this section, we define the Grand Seiko Standard, what it means and how your watch is tested against it
The "Grand Seiko Standard" is our own accuracy standard. Your watch has been tested individually and has met this standard. All Grand Seiko calibers are tested in the same way and for the same period but there are two standards, one for Grand Seiko men's watches and another for Caliber 9S27 which is used in Grand Seiko's women's watches. This is because the smaller size of Caliber 9S27 results in a different level of precision
The movement in your Grand Seiko watch has been tested in our facilities for a period of 17 days, in six different positions and at three different temperatures. It has achieved or surpassed the standards of accuracy shown on page 35, with the accuracy being defined as a gain or loss per day (the "mean daily rate").

We specify "target values" for actual use and these are -1 second to +10 seconds for all calibers except 9885 and $9886(-1$ to +8$)$ and -5 to +10 for 9 S 27 . To judge the precision of your watch against thes values, please measure the gain or loss over a week to ten days, and values, please measure the gain or loss over a week to ten days, and not just or one day, we will adiust the watch free of charge within three years of purchase. After that period, such adustments will be cearge oquly, the adjustment will be chargeable if the watch chargeable. Equally, the adjustment will be chargeable if the watch s below.
The watch has been used in ways that are not in line with the recommendations in this booklet, such as allowing it to be magnetized.
It has been opened or tampered with by anyone other than a Grand Seiko repair center
It has been damaged as a result of a natural disaster such as a flood, fire or earthquake.
Guaranteed conditions have been altered

The Grand Seiko Special Standard
The Grand Seiko Special Standard is a precision standard even higher than the Grand Seiko Standard.
Watches that meet this standard are designated by the word

## The Grand Seiko Standard defined

| Item | Unit | Standard | Cal. 9S27 | Special Standard |
| :---: | :---: | :---: | :---: | :---: |
| Mean daily rate in six positions | Second/day | $-3.0 \sim+5.0$ | $-3.0 \sim+8.0$ | $-2.0 \sim+4.0$ |
| Mean variation of daily rate | Second/day | Less than 1.8 | Less than 3.2 | Less than 1.6 |
| Maximum daily rate between two consecutive daily rates in the same position | Second/day | Less than 4.0 | Less than 6.0 | Less than 3.0 |
| Variation of rate between positions horizontal and vertical | Second/day | -6.0~+8.0 | $-8.0 \sim+10.0$ | $-5.0 \sim+7.0$ |
| Maximum daily rate between mean daily rate and any individual rate | Second/day | Less than 8.0 | Less than 13.0 | Less than 7.0 |
| Variation of daily rate per $1^{\circ} \mathrm{C}$ between $8^{\circ} \mathrm{C}$ and $38^{\circ} \mathrm{C}$ | Second/day $/{ }^{\circ} \mathrm{C}$ | $-0.5 \sim+0.5$ | $-0.6 \sim+0.6$ | $-0.3 \sim+0.3$ |
| $\begin{aligned} & \text { Variation of daily } \\ & \text { rate per } 1^{\circ} \mathrm{C} \\ & \text { between } 23^{\circ} \mathrm{C} \\ & \text { and } 38^{\circ} \mathrm{C} \end{aligned}$ | Second/day $/{ }^{\circ} \mathrm{C}$ | $-0.5 \sim+0.5$ | $-0.6 \sim+0.6$ | $-0.3 \sim+0.3$ |
| Rate-resumption | Second/day | $-5.0 \sim+5.0$ | $-6.0 \sim+6.0$ | 4.0 |
| Number of positions in inspection |  | 6 positions |  |  |
| Condition of temperature in inspection |  | 8, $23,38^{\circ} \mathrm{C}$ |  |  |
| Length of tests |  | 17 days |  |  |

Description of Grand Seiko Standard Terminology

| Item | Meaning |
| :---: | :---: |
| Position in inspection | Five orientations are specified by the International Standard ISO3159 so as to carry out various kinds of tests for time keeping. In addition thereto, in the GS inspection, 12 o'clock Up position in the state where a watch taken off the wrist is placed, is added, six orientations are specified. (Dial Up, Dial Down, 12 o'clock Up, 3 o'clock Up, 6 o'clock Up, and 9 o'clock Up) |
| Mean daily rate | Mean value of a total of 12 daily rates measured in six different positions, respectively, for two days. This is a target value indicating basic gain/loss per day of a watch, however, it is required to comprehensively judge the actual accuracy performance in consideration of other items. |
| Mean variation of daily rate | Mean value of a total of six variations of daily rates between the first day and second day when measured in six different positions for two days each. It indicates the degree which daily accuracy stabilizes in each position. |
| Maximum daily rate between two consecutive daily rates in the same position | Maximum value of a total of six variations of daily rates between the first day and second day when measured in six different positions for two days each. It indicates the degree which accuracy per day changes at maximum according to positions. |
| Variation of rate between positions horizontal and vertical | Indicates gain/loss in two positions at which a watch is most frequently used in daily life. It is a difference between mean daily rates for two days when a watch is placed in the dial Up position and mean daily rates for two days when a watch is placed in the 6 o'clock Up position. |
| Maximum daily rate between mean daily rate and any individual rate | Maximum difference value between daily rates for 12 days in the test initial stage and mean daily rates. It indicates the degree at which the daily rate varies according to the manner for placing a watch. |
| Variation of daily rate per $1^{\circ} \mathrm{C}$ between $8^{\circ} \mathrm{C}$ and $38^{\circ} \mathrm{C}$ | Variation in daily rates per $1^{\circ} \mathrm{C}$ between $38^{\circ} \mathrm{C}$ and $8^{\circ} \mathrm{C}$ in the same position (Dial Up position). It indicates gain/loss in the temperature environment (taken-off state from the wrist) where a watch is used. |
| Variation of daily rate per $1^{\circ} \mathrm{C}$ between $23^{\circ} \mathrm{C}$ and $38^{\circ} \mathrm{C}$ | Variation of daily rates per $1^{\circ} \mathrm{C}$ between $38^{\circ} \mathrm{C}$ and $23^{\circ} \mathrm{C}$ in the same position (Dial Up position). It indicates gain/loss in the temperature environment (worn state of the wrist) where a watch is used. |
| Rate-resumption | Value obtained by subtracting mean daily rates of initial two days from daily rate of the last inspection day. It indicates the degree at which daily rate stabilizes after usage for a predetermined period. |

The Grand Seiko Standard Inspection Certificate
O This certificate accompanies your watch. It shows the precision values achieved by the movement before the watch was cased and that the movement met the Grand Seiko Standard. The precision tests were conducted in an artificially controlled environment in our facility. The certificate shows the caliber number, the movement's individual number and the case's individual number.
It is important to note that, in actual use, the precision of all mechanical watches varies according to changes in ambient mechanical watches varies according to changes in ambient temperature, the position of the watch and the extent to which the actual use may show variations from the Grand Seiko Standard.

Your Grand Seiko Inspection Certificate is unique and cannot be replaced or reissued if lost or after maintenance or adjustment.

## Cautions for accuracy of mechanical watch

Mechanical watches have a mechanism that is moved by power generated when the mainspring is unwound, and small metal parts physically work together to control the accuracy. Fragie metal parts of a mechanical watch are
easily influenced by external environment such as temperature, gravity, and shock. Also, conditions of use such as normal usage time and winding state of the mainspring can, influence the gain/loss of the watch.
(1) Accuracy of mechanical watch is "mean daily rate."

Accuracy of the quartz watch is indicated monthly or annually such as a monthly
rate of +15 seconds or annual rate of +10 seconds . This indicates the degree of rate of $\pm 15$ seconds or annual rate of $\pm 10$ seconds. This indicates the degree of total difference in accuracy when the quartz watch is continuously used for a month or a year. To the contrary, accuracy of the mechanical watch is normally
indicated as a "mean daily rate." Accuracy of the mechanical watch slightly varies each day as it is influenced by various conditions of use, and it is normally unstable. Then it is required to judge whether the accuracy is satisfactory or not by checking the mean values in the case of use for a week to ten days, but not for only one day. For normal usage accuracy of Grand Seiko mechanical watch, -1 to +10 seconds ( +8 seconds for Cal. 9 S86 and $9 S 85,-5$ to +10 seconds for abovementioned target value in the normal usage condition when the watch is used for a week to ten days, we will adjust it.
*Adjustment is provided free of charge within three years after purchase. After the
three-year period, adiustments are charged. However please note that the parts the three-year period, adiustments are charged. However, please note that the parts that
are age-deteriorated due to long duration of use may not be adiusted to your desired accuracy. $\Rightarrow F$ or details, refer to pages 34 and 39 .
(2) Factor influencing accuracy -1 : Wound amount of the mainspring In order to use the mechanical watch at better accuracies, it is required to supply a constant strong energy wherever possible to respective parts. In the state where the mainspring is fully wound, accuracy is stable, however, when the mainspring is unwound to weaken energy to be supplied, the parts controlling accuracy tends to be externally
influenced, and accuracy becomes unstable. In order to use a mechanical watch at a steady accuracy, it is recommended to use it in a condition where the mainspring is sufficiently wound.
(3) Factor influencing accuracy -2: Temperature influence

Mechanical watch parts are metal which slightly elongate and contract by change in temperature, and this influences accuracy. Normally, under high temperatures, it tends to lose time, and under low temperatures, it tends to gain time.
(4) Factor influencing accuracy -3: Difference by position (orientation of a watch) Parts related to accuracy of a mechanical watch are also influenced by the earth's gravity. For example, gain or loss differs when a watch is horizontally
placed and when it is vertically placed in the 12 o'clock up position. When the watch is not worn on the wrist, accuracy errors that occur while wearing can also be compensated to some extent according to the position. Try to place it in various positions to find the position appropriate to your watch.

## After-sale service

## Notes on guarantee and repair

Contact the retailer from whom the watch was purchased or Grand Seiko international service network men
or our website repair or overhaul.
Within the guarantee period, present the certificate of guarantee to receive repair services.
O Guarantee coverage is provided in the certificate of guarantee. Read carefully and retain it.
O 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 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 adiustment 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
O The movement of this watch has a structure that consistent pressure is applied on its power-transmitting wheels. To ensure these parts work together properly, periodic inspection including cleaning of parts and movement, oiling, adjustment of accuracy, functional check and replacement of worn parts is needed. Inspection and adjustment by disassembly and cleaning (overhaul) within 3 to 4 years from the date of purchase is highly recommended for longtime use of your watch. 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 to stop. As the parts such as the gasket may deteriorate, water-resistant performance the retailer from whom the watch was purchased for inspection and adjustment by disassembly and cleaning (overhaul). For replacement of pats please specify "GRAND 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.

## Guarantee

Within the guarantee period, we guarantee free repair/adjustment service against any defects according to the following guarantee regulations, provided that the watch was properly used as directed in this instruction booklet.

## Guarantee coverage

The watch body (movement, case) and metallic band.

## Exceptions from guarantee

In following cases, repair/adjustment services will be provided at cost even within the guarantee period or under guarantee coverage.

O Exchange of leather, Silicone, or fabric band.
O Troubles or damage to the case, glass, or band, caused by accidents or improper usage.
Scratches or grime caused by use.
Troubles and damage caused by acts of God, natural disasters including fire, floods or earthquakes.
Text in certificate has been altered.
No certificate is presented

## Procedure to claim free repair services

O For any defects under guarantee, submit the watch together with the attached certificate of guarantee to the retailer from whom the watch was purchased
O In the case where you cannot accept the guarantee from the retailer from whom the watch was purchased due to gift-giving or relocation, etc., ask Grand Seiko international service network mentioned on CERTIFICATE OF GUARANTEE or our website by attaching the certificate without fail.

## Others

For the watch case, dial plate, hands, glass, band etc., some alternative parts may be used for repair if necessary. Refer to page 39 of this booklet for retention period of the parts.
O For length adjustment service of metallic band, ask the retailer from whom the watch was purchased or Grand Seiko international service network the watch was purchased or Grand Seiko international service network
mentioned on CERTIFICATE OF GUARANTEE or our website. Other mentioned on CERTIFICATE OF GUARANTEE or our website. Other
retailers may undertake the service on a chargeable basis or may not undertake the service.
O Free repair services are guaranteed only under the period and conditions specified in the certificate of guarantee. It dose not affect specific legal rights of a consumer.

Daily care
The watch requires good daily care
O Do not wash the watch when its crown is at the extended position.
O 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.
※ If your watch is rated as "non-water resistant" or "water resistant for dally use", do not wash the watch.
$\Rightarrow$ "CHECK THE CALIBER NUMBER AND WATER-RESISTANT LEVEL" page 10.

## 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
$\Rightarrow$ "Crown" page 18

## Band

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

## Metallic band

O Moisture, sweat or soil will cause rust even on a stainless steel band if they are left for a long time.
Lack of care mav cause a vellowish or gold stain on the lower sleeve edge
$\frac{\text { of shirts. }}{}$ 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.).
Because some titanium bracelets use pins made of stainless steel, which If rust advances, pins may poke out or drop out, and the watch case may fall off the bracelet, 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

## Leather band

A leather band is susceptible to discoloration and deterioration from moisture, sweat and direct sunligh
Wipe off moisture and sweat as soan as possibe by gently bloting then with a dry cloth.
O Please take care when wearing a watch with light-colored band, as dirt is likely
to show up.
Refrain from wearing a leather band watch other than Aqua Free bands while bathing, swimming, and when working with water even if the watch itself is water-resistant enforced for daily use.

## Silicone band

$\bigcirc$ 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
and discolored. Wipe off dirt with a wet cloth or cleaning tissue. Take care not to damage the band with an edged tool
Notes on skin irritation and allergy
Skin irritation caused by a band has various reasons such as allergy to metals leathers, or skin reactions against friction on dust or the band itself

## Notes on the length of the band

Adiust 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.

Magnetic resistance (Magnetic influence)
Affected by nearby magnetism, a watch may temporarily gain or lose time or stop operating.

| Indication on the case back | Condition of use | Certified level |
| :---: | :--- | :---: |
| No indication | Keep the watch more than 5 <br> cm away from magnetic <br> products. | $4,800 \mathrm{~A} / \mathrm{m}$ |
|  |  | Keep the watch more than 1 <br> cm away from mag ne tic <br> products. | 16,000A/m

※ A/m (ampere meter) is the International unit (Sl unit) for indicating the magnetic field.
Examples of common magnetic products that may affect watches


Cellular phone
(speaker)


AC adapter
(with magn
(with magnet buc



AC-powered shaver


Magnetic health pillow


Magnetic necklace



Portable radio (speaker)
device


Magnetic cookin

If the watch becomes magnetized and its accuracy deteriorates to an extent exceeding the specified rate under normal use, the watch may need to be demagnetized. In this case, you wili be charged for demagnetization

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

## Lumibrite

## If your watch has Lumibrite

Lumibrite is a luminous paint that is completely harmless to human beings and the natural environment; containing no noxious materials such as radioactive substance. Lumibrite is a newly-developed luminous paint that absorbs light energy of the sunlight and lighting apparatus 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, Lumibrite emits the light it stores, the luminance Please note, however, 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 you enter a dark place from a bright environment, your eye cannot adapt to the change in light levels quickly. At first, you can hardly see anything, but as time passes, your vision gradually improves. (Dark adaptation of the human eye)

## Reference data on the luminance

| Condition | Illumination |  |
| :---: | :---: | :--- |
|  | Fine weather | 100,000 lux |
|  | Cloudy weather | 10,000 lux |
| Indoor <br> Window-side during <br> 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 <br> (40-watt daylight <br> fluorescent light) | Distance to the watch: 1 m | 1,000 lux |
|  | 500 lux (average room luminance) |  |
|  | Distance to the watch: 4 m | 250 lux |

Troubleshooting

| Troubles | Possible Causes | Solutions |
| :---: | :---: | :---: |
| The watch stops operating | The mainspring has not been wound. | Wind the mainspring or swing the watch for a few times so that the watch will start operating. If this action does not correct the condition, consult the retailer from whom the watch was purchased. |
| The watch temporarily gains/loses time. | The watch has been left in extremely high or low temperatures for a long time. | Normal accuracy will resume when the watch returns to normal temperature. |
|  | The watch was brought into close contact with a magnetic object. | Accuracy cannot be recovered. Consult the retailer from whom the watch was purchased. |
|  | The watch was dropped, worn while playing active sports, hit against hard surfaces, or exposed to strong vibrations. | Accuracy cannot be recovered. Consult the retailer from whom the watch was purchased. |
|  | Inspection, adjustment, and overhaul cleaning have not been performed for the watch for more than 3 years. | Consult the retailer from whom the watch was purchased. |
| The date changes during daytime. | A.m./p.m. is not correctly set. | Advance the hour hand for 12 hours and reset the time and date. |
| Blur in the display persists. | Small amount of water has got inside the watch due to deterioration of the gasket, etc. | Consult the retailer from whom the watch was purchased. |

-SPECIFICATIONS (Movement)

| Caliber no. | 9886, 9585 |
| :---: | :---: |
| Common features | Hour Hand, Minute Hand, Seconds Hand, Date. |
| Extra features for Cal. 9S86 only | 24-hour hand, Time difference adjustment function interrelated with the day display |
| Vibrations | 36,000/hour (10/second) |
| Loss/gain (Grand Seiko Standard) | Mean daily rate*: -3 to +5 seconds |
| Loss/gain (Grand Seiko Special Standard | Mean daily rate*: -2 to +4 seconds |
| Driving system | Automatic winding type with manual winding function |
| Power reserve | For 55 hours or more. ※From the state of the mainspring being sufficiently wound |
| Jewels | 37 jewels |
| Caliber no. | 9S66, 9S68, 9S65, 9S61, 9S64, 9S63 |
| Common features | Hour Hand, Minute Hand, Seconds Hand. |
| Extra features for Cal. 9S66, 68, 65 | Date |
| Extra features for Cal. 9S66 only | 24-hour Hand |
| Extra features for Cal. 9S63 only | Power reserve indicator |
| Vibrations | 28,800/hour (8/second) |
| Loss/gain | Mean daily rate*: -3 to +5 seconds |
| Driving system | 9S66, 9S68, 9S65, 9S61: <br> Automatic winding type with manual winding function 9S64, 9S63: Manual winding type |
| Power reserve | For 72 hours or more. ※From the state of the mainspring being sufficiently wound |
| Jewels | 9S66, 9S68, 9S65: 35 jewels, <br> 9S63, 9S61: 33 jewels, 9S64: 24 jewels |
| Caliber no. | 9527 |
| Features | Hour Hand, Minute Hand, Seconds Hand, Date. |
| Vibrations | 28,800/hour (8/second) |
| Loss/gain | Mean daily rate*: -3 to +8 seconds |
| Driving system | Automatic winding type with manual winding function |
| Power reserve | For 50 hours or more. ※From the state of the mainspring being sufficiently wound |
| Jewels | 35 jewels |

Mean daily rate": is a mean value of daily rates in a condition where the movement before assembly in a Case are measured in 6 positions in a fixed manner under artificially controlled environment for 17 days. Caution: Depending on conditions of use (such as normal usage time, temperature
environment, and winding state), accuracy may exceed the abovementioned range. Therefore, for nomal usage accuracy when it is actually used, -1 to +10 seconds $(-1$ to +8 seconds for Cal. 9886 and $9585,-5$ to +10 seconds for Cal. $9 S 27$ ) per day are specified as
target values.
※ The specifications are subject to change without prior notice due to product improvement.


[^0]:    $\Rightarrow$ "How to set the time and date" page 20
    $\Rightarrow$ "FUNCTIONS OF

