

# ISSEY MIYAKE

BNJY022

SEIKO NEXTAGE CO.,LTD.  
<http://isseymiyake-watch.com>

Instruction

**Thank you very much for choosing a  
Issey Miyake watch.  
For proper and safe use of your 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 Im web site [www.isseymiyake-watch.com](http://www.isseymiyake-watch.com)

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

Handling cautions .....	4
Characteristics of mechanical watches (manual winding model, automatic winding model) .....	8
Crown .....	9
How to use the automatic mechanical watch .....	10
Names of the parts and their functions (NE88) .....	11
How to set the time and date (NE88) .....	12
■ How to set the time and date .....	12
■ Date adjustment at the end of the month .....	15
How to use the chronograph (NE88) .....	16
■ How to use the chronograph .....	16
[Standard measurement] .....	17
[Accumulated elapsed time measurement] .....	18
■ How to read the stopwatch minute hand .....	20
Names of the parts (NE15) .....	21
How to Use (NE15) .....	22
■ How to set the time and date .....	22
■ Date adjustment at the end of the month .....	26
Names of the parts (NH36) .....	27

2

How to set the time, day, and date (NH36) .....	28
■ How to set the time, date, and day .....	28
■ Date adjustment at the end of the month .....	30
Magnetic resistance .....	31
Examples of common magnetic products that may affect watches .....	32
Daily care .....	33
Water resistance .....	34
Band .....	36
Special clasps A .....	39
■ How to wear or take off the watch .....	39
■ How to adjust the length of the leather band .....	40
Special clasps B .....	41
LUMIBRITE .....	42
AFTER-SALES SERVICE .....	43
Troubleshooting .....	45
Accuracy of mechanical watches .....	46
Specifications .....	48

3

## Handling cautions

### WARNING

To indicate the risks of serious consequences such as severe injuries unless the following safety regulations are strictly observed.

- Immediately stop wearing the watch in following cases.
  - If the watch body or band becomes edged by corrosion etc.
  - If the pins protrude from the band.
  - ※ Immediately consult the retailer from whom the watch was purchased or SEIKO CUSTOMER SERVICE CENTER.
- Keep the watch and accessories out of the reach of babies and children.
 

Care should be taken to prevent a baby or a child accidentally swallowing the accessories.  
If a baby or child swallows the battery or accessories, immediately consult a doctor, as it will be harmful to the health of the baby or child.

4

### CAUTION

To indicate the risks of light injuries or material damages unless the following safety regulations are strictly observed.

- Avoid the following places for wearing or keeping the watch.
  - Places where volatile agents (cosmetics such as polish remover, bug repellent, thinners etc.) are vaporizing
  - Places where the temperature drops below 5 °C or rises above 35°C for a long time
  - Places of high humidity
  - Places affected by strong magnetism or static electricity
  - Dusty places
  - Places affected by strong vibrations
- If you observe any allergic symptoms or skin irritation
 

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

5

**⚠ 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 this watch. For diving, use special watches for diving.

**⚠ CAUTION**



**Do not pour running water directly from faucet onto the watch.**

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.

6

**⚠ CAUTION**



**Do not turn or pull out the crown when the watch is wet.**

Water may get inside of the watch.

※ If the inner surface of the glass is clouded with condensation or water droplets appear inside of the watch for a long time, the water resistant performance of the watch is deteriorated. Immediately consult the retailer from whom the watch was purchased or SEIKO CUSTOMER SERVICE CENTER.



**Do not leave moisture, sweat and dirt on the watch for a long time.**

Be aware of a risk that a water resistant watch may lessen its water resistant performance because of deterioration of the adhesive on the glass or gasket, or the development of rust on stainless steel.



**Do not wear the watch while taking a bath or a sauna.**

Steam, soap or some components of a hot spring may accelerate the deterioration of water resistant performance of the watch.

7

**Characteristics of mechanical watches (manual winding model, automatic winding model)**

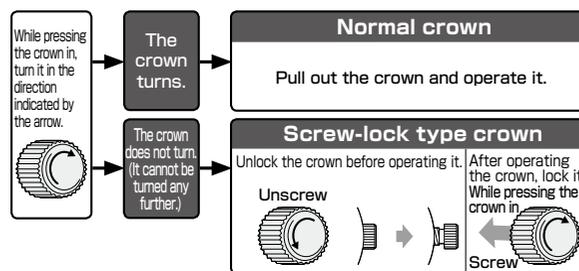
- This is a mechanical watch that uses the mainspring as its power source.
- When starting to use a watch after it stops, turn the crown approximately 20 times by hand to wind the mainspring.
- Accuracy of mechanical watch is indicated by a daily rate (loss or gain per one day), while that of quartz watch is indicated by a monthly or annual rate.
- Accuracy of mechanical watch may slightly vary depending on the various conditions of use (such as the length of time during which the watch is worn on the wrist, temperature environment, arm movement, and winding state of the mainspring).

8

**Crown**

There are two types of crown, a normal crown and a screw-lock type crown.

Please check the type of the crown of your watch.



※ If your watch has a screw-lock type crown, the crown screws into the watch to 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.

9

## How to use the automatic mechanical watch

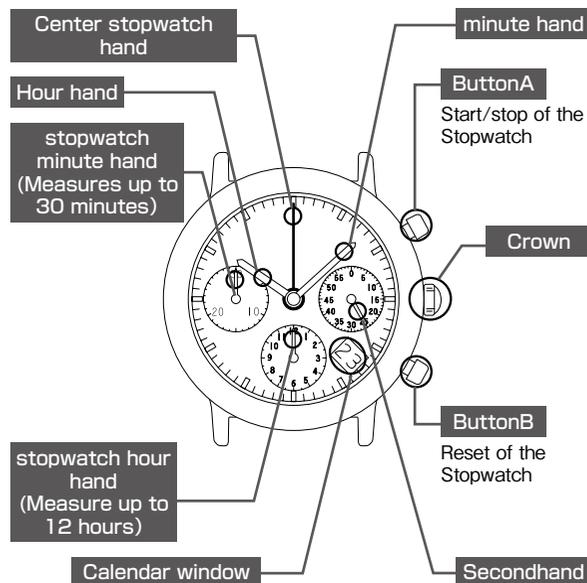
- 1 This is an automatic mechanical watch with manual winding mechanism.
- 2 When the watch is worn on the wrist, the mainspring is wound automatically through normal wrist movement. The watch can also be wound up by turning the crown. To do so, unscrew the crown by turning it counterclockwise.
- 3 To start the watch after it stops completely, wind it up either by turning the crown or swinging it from side to side until the second hand starts moving. Then, set the time and date before putting the watch on the wrist. To wind up the watch, unscrew the crown by turning it counterclockwise, and then, turn it clockwise slowly. The watch cannot be wound by turning the crown counterclockwise.
- 4 Once the watch is wound up fully, it operates for about 45 hours.

	NE15	NE88	NH36
About 50 hours	○		
About 45 hours		○	
About 41 hours			○

※ While the chronograph is used to measure a long period of time, however, the watch will stop operating before 45 hours. If the watch is used without being wound up fully, gain or loss of the watch may result. To avoid this, wear the watch for more than 10 hours a day. If the watch is used without wearing on the wrist; if it is used on the desk like a clock, for example; be sure to wind it up fully every day at a fixed time.

10

## Names of the parts and their functions (NE88)



11

## How to set the time and date (NE88)

### How to set the time and date

Check that the watch is operating, and then, set the time and date.

The watch is provided with a date function and is so designed that the date changes once every 24 hours. The date changes around 12 o'clock midnight. If AM/PM is not properly set, the date will change at 12 o'clock noon.

### CAUTION

- Do not set the date between 8:00 p.m. and 2:00 a.m. as this will cause a malfunction.

12

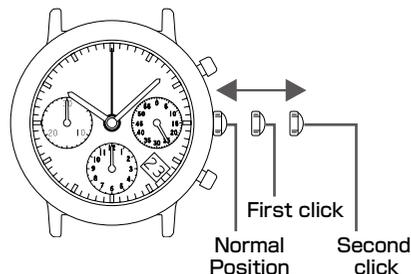
- 1 Unscrew the crown by turning it counterclockwise. Pull out the crown to the first click. (The second hand continues moving.)
- 2 The date can be set by turning the crown clockwise. Turn it until the previous day's date appears.
 

Ex.) If today is the 6th of the month, first set the date to "5" by turning the crown clockwise.
- 3 Pull out the crown to the second click when the second hand is at the 12 O'clock position. (The second hand stops on the spot.) Turn the crown 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.

13

**4** Push the crown back in to the normal position in accordance with a time signal.

※ The telephone time signal service is helpful for setting the second hand exactly.



**CAUTION**

- The mechanism of mechanical watches is different from that of quartz watches. When setting the time, be sure to turn back the minute hand a little behind the desired time and then advance it to the exact time.

**■ 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". Unscrew the crown by turning it counterclockwise, and then, pull it out to the first click.
- Turn the crown to set the date to "1" and then push the crown back in to the normal position.
- While pressing the crown, turn it clockwise until it locks in place.

**CAUTION**

- Do not set the date between 8:00 p.m. and 2:00 a.m. as this will cause a malfunction.

**How to use the chronograph (NE88)**

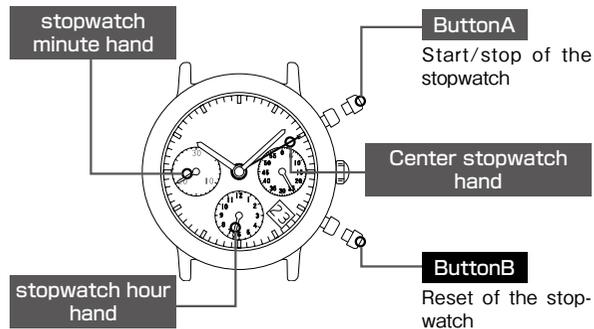
**■ How to use the chronograph**

The chronograph can measure up to 12 hours.

※ "Chronograph" refers to a watch function that measures the elapsed time while indicating the current time.

※ Before using the stopwatch, be sure to check that the center stopwatch hand is at "0" position. If not, press button ⓐ to reset it to "0" position.

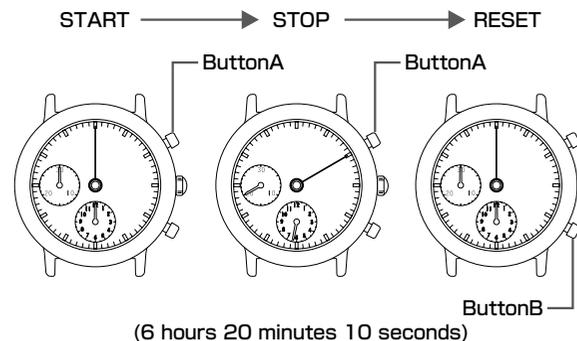
※ Before using the stopwatch, be sure to check that the watch is wound up sufficiently. If the power reserve indicator indicates less than 10 hours of power reserve, the stopwatch cannot be used.



(Ex.: 6 hours 20 minutes 10 seconds)

**[Standard measurement]**

Press the buttons in the following order: A → A → B

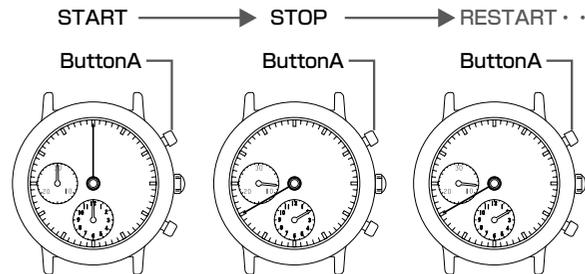


(6 hours 20 minutes 10 seconds)

- Press button A to start the chronograph. The center stopwatch hand will start moving.
- Press button A again to stop the chronograph. The stopwatch hands stop to indicate the elapsed time.
- Press button B to reset the chronograph. All the stopwatch hands will be reset to "0" position.

### [Accumulated elapsed time measurement]

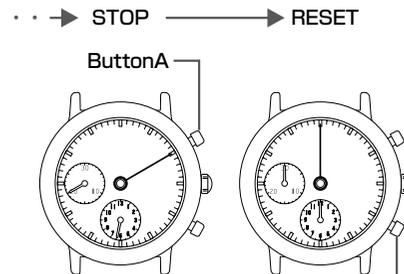
Press the buttons in the following order : A → A → · · · → A → A → B



(2 hours 8 minutes 40 seconds)

- Press button A to start the chronograph. The center stopwatch hand will start moving.
- Restart and stop of the chronograph can be repeated during the measurement by pressing button A. The stopwatch hands will restart and stop accordingly.

18



(6 hours 20 minutes 10 seconds)

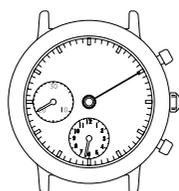
- Press button A to stop the chronograph. The stopwatch hands will indicate the accumulated elapsed time. Then, press button B to reset the chronograph. All the stopwatch hands will be reset to "0" position.

19

### ■ How to read the stopwatch minute hand

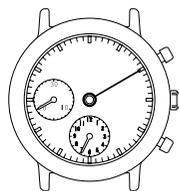
The stopwatch minute hand makes a full revolution every 30 minutes.

The readout is determined by the correlation between the positions of the stopwatch minute hand and the stopwatch hour hand. To read the minutes correctly, refer to the instructions below.



(Between 0 and 29 minutes)

While the stopwatch hour hand is pointing in some direction within the first half of an hour (after a long line of graduation and before a short line of graduation), read the minutes as is that the minute hand is pointing to; in the case above, the measured time should be read as "6 hours 20 minutes 10 seconds."

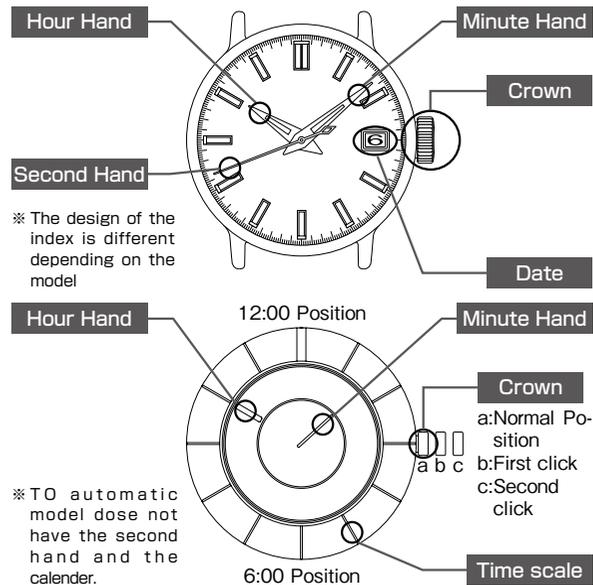


(Between 30 and 59 minutes)

While the stopwatch hour hand is pointing in some direction within the second half of an hour (after a short line of graduation and before a long line of graduation), add 30 minutes to the minute that the minute hand is pointing; in the case above, the measured time should be read as "6 hours 50 minutes 10 seconds."

20

### Names of the parts (NE15)



21

## How to Use (NE15)

### ■ How to set the time and date

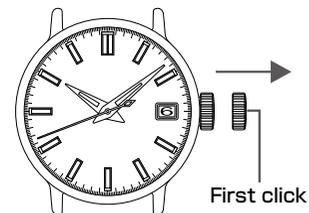
- Check that the watch is operating, and then, set the time and date.
- The watch is provided with a date function and is so designed that the date changes once every 24 hours. The date changes around 12 o'clock midnight. If AM/PM is not properly set, the date will change at 12 o'clock noon.

#### ⚠ CAUTION

- Do not set the date between 9:00 p.m. and 1:00 a.m. Otherwise, the date may not change properly.

- 1** Pull out the crown to the first click. (The second hand continues moving.)
- 2** The date can be set by turning the crown counter-clockwise. Turn it until the previous day's date appears.

Ex.) If today is the 6th of the month, first set the date to "5" by turning the crown clockwise.



22

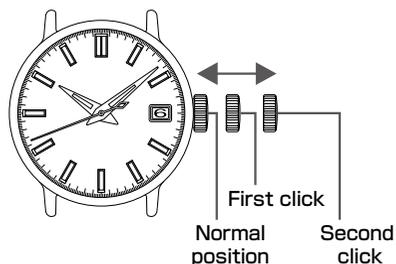
23

- 3** Pull out the crown to the second click when the second hand is at the 12 O'clock position. (The second hand stops on the spot.)

Turn the crown 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.

- 4** Push the crown back in to the normal position in accordance with a time signal.

※ The telephone time signal service is helpful for setting the second hand exactly.



#### ⚠ CAUTION

- The mechanism of mechanical watches is different from that of quartz watches. When setting the time, be sure to turn back the minute hand a little behind the desired time and then advance it to the exact time.

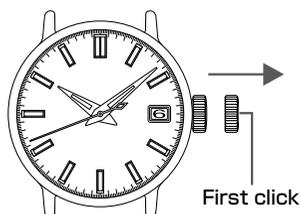
24

25

## ■ 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>

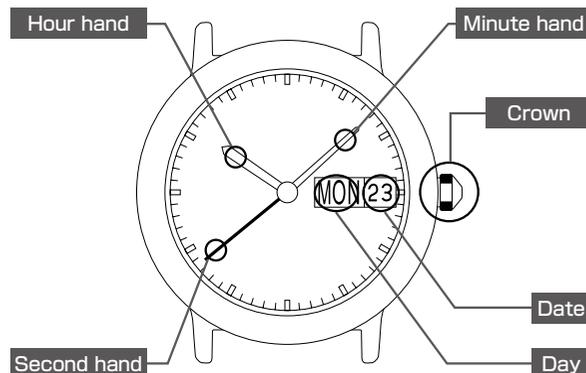


### ⚠ CAUTION

- Do not set the date between 9:00 p.m. and 1:00 a.m. as this will cause a malfunction.

26

## Names of the parts (NH36)



※ The design of the index is different depending on the model.

27

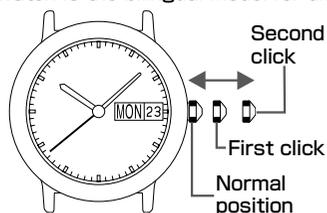
## How to set the time, day, and date(NH36)

This watch is provided with a date and day function. It is designed so that the date changes once every 24 hours around 12 o' clock midnight, and the day around 4:00 a.m. If AM/PM is not properly set, the date will change around 12 o'clock noon, and the day around 4:00 p.m.

### ■ How to set the time, date, and day

- 1 Pull out the crown to the first click.
- 2 The date and day can be adjusted by turning the crown. Turn it until the previous day' s date and day appear. The day can be adjusted by turning the crown clockwise and the date by turning the crown counter-clockwise. If your watch is the bilingual model for displaying the day, choose the desired language.

Ex.) If today is the 6th of the month, first set the date to "5."



28

- 3 Pull out the crown to the second click when the second hand is at the 12 o'clock position. (The second hand stops on the spot.)  
Turn the crown 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.

- 4 Push the crown back in to the normal position in accordance with a time signal.

※ The telephone time signal service is helpful for setting the second hand exactly.

29

## ■ 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 to set the date to "1" and then push the crown back in to the normal position.

### ⚠ CAUTION

- Do not set the date between 9:00 p.m. and 4:00 a.m. as this will cause a malfunction.

30

## Examples of common magnetic products that may affect watches



Cellular phone (speaker)



AC adapter



Bag (with magnet buckle)



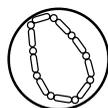
AC-powered Shaver



Magnetic cooking device



Portable radio (speaker)



Magnetic Necklace



Magnetic health pillow

32

## Magnetic resistance

Affected by nearby magnetism, a watch may temporarily gain or lose time or stop operating.

Indication on the case back	Condition of use
No indication	Keep the watch more than 5 cm away from magnetic products. (JIS level-1 standard)
	Keep the watch more than 1 cm away from magnetic products. (JIS level-2 standard)

Exposing the watch to a strong magnetic field will cause the watch to gain or lose time.

Once the watch is affected by a magnetic field, even if it is removed from the magnetic field, it may remain magnetized, causing lasting effects on its accuracy. In such a case, have the watch repaired. Any repairs made even within the guarantee period will be made at cost.

The reason why watch is affected by magnetism

The built-in balance spring may be influenced by a strong external magnetic field.

31

## Daily care

### ■ The watch requires good daily care.

- Do not wash the watch when the crown is pull out.
- 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 daily use," do not wash the watch.

### ■ Turn the crown

- To prevent rusting of the crown, please sometimes turning the crown.
- Please do the same for screw-lock type crown.

33

## Water resistance

Refer 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	Condition of use
No indication	Non-water resistance	Avoid drops of water or sweat
WATER RESISTANT	Water resistance for everyday use	The watch can withstand accidental contact with water in everyday life.  <b>WARNING</b> Not suitable for swimming
WATER RESISTANT 5 BAR	Water resistance for everyday use at 5 barometric pressures.	The watch is suitable for sports such as swimming.
WATER RESISTANT 10 (20) BAR	Water resistance for everyday use at 10(20) barometric pressures.	The watch is suitable for diving not using an air cylinder.

34

35

## Band

The band touches the skin directly and becomes dirty with sweat or dust. Therefore, lack of care may accelerate deterioration of the band or cause skin irritation or stain on a sleeve cuff. 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 cause a yellowish or gold stain on a sleeve cuff 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 and then brush it off with a soft toothbrush. (Protect the watch body from water splashes by wrapping it in plastic wrap, etc.)
- Because some titanium bracelets use pins made of stainless steel, which has outstanding strength, rust may form in the stainless steel parts.
- If rust advances, pins may poke out or drop out, and the watch case may fall off the bracelet, or the clasp may not open.

36

- 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 sunlight.
- Wipe off moisture and sweat as soon as possible by gently blotting with a dry cloth.
- Do not expose the watch to direct sunlight for a long time.
- Please take care when wearing a watch with a light-colored band, as dirt or stains are likely to show.
- 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 (10-BAR water resistant) .

### ■ Polyurethane band

- A polyurethane band is susceptible to discoloration from light, and it may be deteriorated by solvent or atmospheric humidity.

37

- Especially a translucent, white, or pale-colored band easily adsorbs other colors, resulting in color smears or discoloration.
- Wash off dirt in water and clean the band with a dry cloth.  
(Protect the watch body from water splashes by wrapping it in plastic wrap, etc.)
- When the band becomes less flexible, have the band replaced with a new one. If you continue to use the band as it is, the band may develop cracks or become brittle over time.

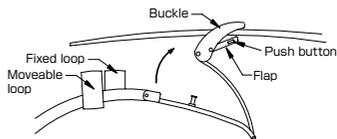
**Note on skin irritation and allergy:**

Skin irritation caused by a band has various reasons such as an allergy to metals or leather, or skin reactions against friction or dust or the band itself.

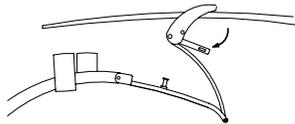
**Notes on the length of the band**

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

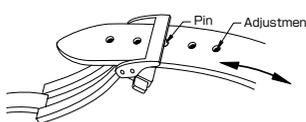
**How to adjust the length of the leather band**



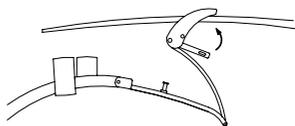
① While pressing the push button on the both sides of the flap, pull the leather band out of the moveable loop and fixed loop. Then open the clasp.



② Press the push buttons again to unfasten the flap.

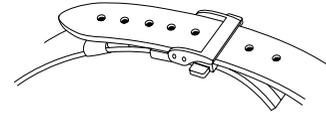


③ Pull the pin out of a adjustment hole of the band. Slide the band to adjust its length and find an appropriate hole. Place the pin into the hole.

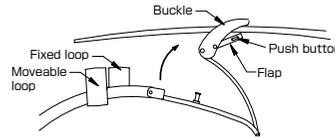


④ Fasten the flap.

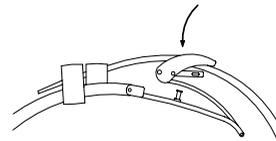
**Special clasps A**



**How to wear or take off the watch**

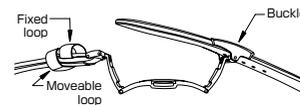


① While pressing the push button on the both sides of the flap, pull the band out of the moveable loop and fixed loop. Then open the clasp.

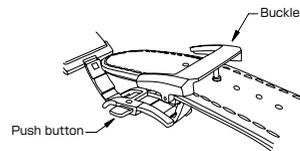


② Place the tip of the band into the moveable loop and fixed loop, and fasten the clasp by pressing the frame of the buckle.

**Special clasps B**



① While pressing the push button on the both sides of the flap, pull the band out of the moveable loop and fixed loop. Then open the clasp.



② Place the tip of the band into the moveable loop and fixed loop, and fasten the clasp by pressing the frame of the buckle.

## LUMIBRITE

If your watch has Lumibrite

Lumibrite is a luminous paint that absorbs the 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, that, as Lumibrite emits the light it stores, the luminance level of the light decreases gradually over time. The duration of the emitted light may also differ slightly depending on such factors as the brightness of the place where the watch is exposed to light and the distance from the light source to the watch.

※ In general, when coming from a place that is bright to a place that is dark, it takes human eyes some time to adapt to the darkness making it difficult to see objects initially. (Dark adaptation)

※ Lumibrite is luminous paint that stores and emits light, which is harmless to human beings and the environment, containing no toxic materials such as radioactive substances.

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

42

### ■ Inspection and adjustment by disassembly and cleaning (overhaul)

- Periodic inspection and adjustment by disassembly and cleaning (overhaul) is recommended approximately once every 2 to 3 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 due to contamination of oil may advance or delay the time significantly, or the watch itself may stop. As parts such as a gasket may deteriorate, water-resistant performance may be impaired due to intrusion of perspiration and moisture. Please contact the retailer from whom the watch was purchased for inspection and adjustment by disassembly and cleaning (overhaul). For replacement of parts, please specify "SEIKO GENUINE PARTS." When asking for inspection and adjustment by disassembly and cleaning (overhaul), make sure that the gasket and push pin are also replaced with new ones.
- When your watch is inspected and adjusted by disassembly and cleaning (overhaul), the movement of your watch may be replaced.

44

## AFTER-SALES SERVICE

### ■ Notes on guarantee and repair

- Contact the retailer the watch was purchased from or a 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 it 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 parts

- SEIKO makes it a policy to typically keep a stock of replacement parts for this watch for 7 years. Replacement parts are those which are essential for maintaining the functional integrity of the watch.
- When repairing your watch, please keep in mind that if original parts are not available, parts may be replaced with substitutes whose outward appearance may differ from the originals. Also note that the complete set of parts with the case or band may be replaced, or if repair is difficult, the watch may be replaced with one of equal quality.

43

## Troubleshooting

Problem	Possible cause	Solution
The watch stops operating.	The watch is not wound up sufficiently.	Turn the crown or swing the watch to wind it up. The watch will start operating. If the watch not, consult the retailer from whom the watch was purchased.
The watch gains/loses temporarily.	The watch has been left in extremely high or low temperatures for a long time.	The normal accuracy will resume when the watch returns to normal temperature.
	The watch was brought into close contact with a magnetic object.	The normal accuracy will resume when the watch is kept away from close contact with the magnetic source. If this condition persists, consult the retailer from whom the watch was purchased.
	You dropped the watch, hit it against a hard surface or wore it while playing active sports. The watch was exposed to strong vibrations.	The normal accuracy will not resume. Consult the retailer from whom the watch was purchased.
The date changes at 12 o'clock noon.	The watch has not been overhauled for more than 3 years.	Consult the retailer from whom the watch was purchased.
	AM/PM is not properly set.	Advance the hands by 12 hours.
The glass is blurred and the blur persists for a long time.	Water got inside the watch due to the deterioration of the gasket, etc.	Consult the retailer from whom the watch was purchased.

※ For the solution of troubles other than listed above, contact the retailer from whom the watch was purchased.

45

## Accuracy of mechanical watches

- The accuracy of mechanical watches is indicated by the "daily rate."
- The accuracy of mechanical watches may not fall within the specified range of time accuracy because loss/gain changes due to the position of the watch, which is dependent on the conditions of use, such as the length of time during which the watch is worn on the wrist, arm movement, and whether the mainspring is wound up fully or not, etc.
- The loss/gain of mechanical watches is not measured by a daily rate, but by daily rates of one week or so.
- Accuracy variation according to temperature
  - The parts that compose the accuracy of mechanical watches are made of metals. It is well known that metals expand or contract depending on temperatures due to metal properties. This exerts an effect on the accuracy of the watches. Mechanical watches tend to lose time at high temperatures while they tend to gain time at low temperatures.

46

- Mainspring wound condition and accuracy
 

In order to improve accuracy, it is important to regularly supply energy to the balance that controls the speed of the gears. The driving force of the mainspring that powers mechanical watches varies between when fully wound and immediately before it is unwound. As the mainspring unwinds, the force weakens. Relatively steady accuracy can be obtained by wearing the watch on the wrist frequently for the self-winding type and winding up the mainspring fully everyday at a fixed time to move it regularly for the wind-up mechanical type.

47

## Specifications

cal.	NE15	NH36	NE88
1.Function	3 hands (Hour,minute and second hands), date display * TO automatic model dose not have the second hand and the calender.	3 hands (Hour,minute and second hands), day,date display	Time display (Hour, minute and small second hands) Stopwatch function (Center stopwatch hand, stopwatch minute hand and hour stopwatch hand)
2.Vibrations per hour	21,600	21,600	28,800
3.Loss/gain (daily rate)	+ 25 ~- 15 seconds at normal temperature range (Between 5°C and 35°C )	+ 45 ~- 35 seconds at normal temperature range (Between 5°C and 35°C )	+ 25 ~- 15 seconds at normal temperature range (Between 5°C and 35°C )
4.Duration	Approx. 50 hours	Approx. 41 hours	Approx. 50 hours
5.Driving system	Automatic winding type with manual winding mechanism	Automatic winding type with manual winding mechanism	Automatic winding type with manual winding mechanism
6.Jewels	23 Jewels	24 Jewels	34 Jewels

Note: The accuracy above is factory-adjusted.

Note: Due to the characteristics of mechanical watches, any actual daily rate may not fall within the range of time accuracy specified above dependent on the conditions of use, such as the length of time during which the watch is worn on the wrist, temperature, arm movement, and whether the mainspring is wound up fully or not, etc.

48

49

SEIKO NEXTAGE CO., LTD.

Watch Service Center

9-9, Hatchobori 1-chome, Chuo-ku, Tokyo 104-0032, Japan

<http://www.isseymiyake-watch.com/>