

**SEIKO**  
SINCE 1881



SEIKO

ASTRON



GPS  
SOLAR





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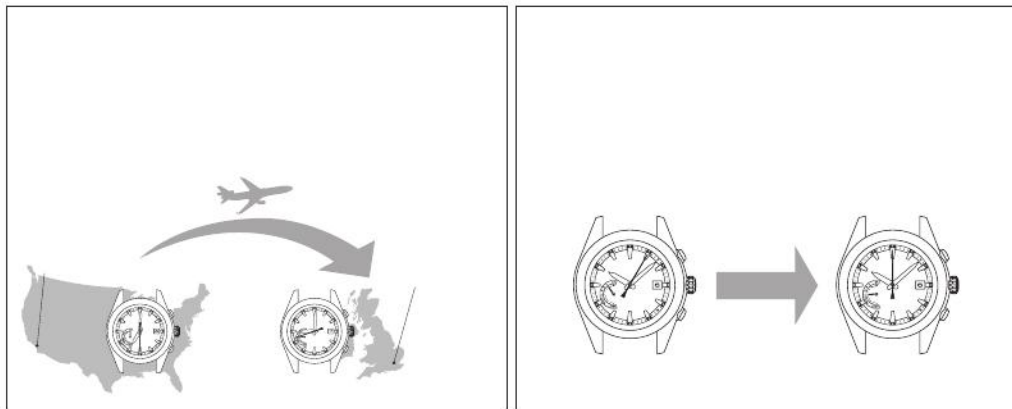
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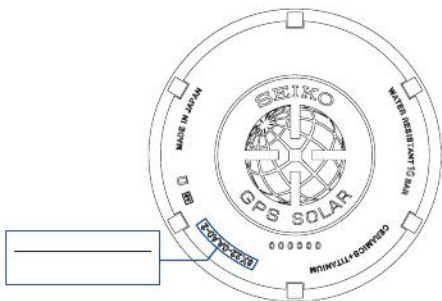
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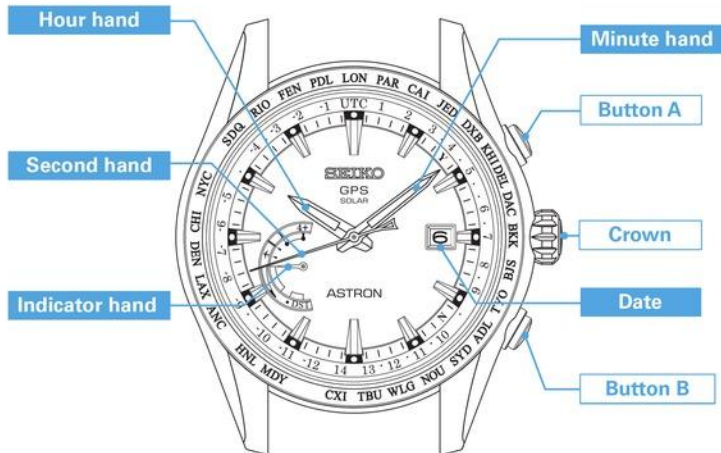


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**Names of the parts**

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\* Display of city name may vary depending on the model.

Continued on the  
following page

## Indicator hand display and reception result display


### Display of receiving process

Receiving process	1 (time adjustment)	4+ (time zone adjustment)	Receiving leap second data
Display			

Check the reception result → P. 28  
Manual time adjustment → P. 23  
Time zone adjustment → P. 17




Automatic time adjustment → P. 25  
Receive leap second data → P. 27

### Display of in-flight mode (✈) status

Hand position	In-flight mode (✈) status
Display	

In-flight mode (✈) → P. 21

### Display of charging status

Hand position	full	middle	low
Display			

Check the charging status. → P. 13  
How to charge the watch → P. 14

### Display of reception result

Y ... Reception successful (8-second position)  
N ... Reception failed (22-second position)  
[Checking the reception result] → P. 28



### Display of DST (Daylight Saving Time)

Hand position	(OFF)	DST (ON)
Display		

Check DST (Daylight Saving Time) → P. 20  
Set DST (Daylight Saving Time) → P. 19

\*Position of each display may differ depending on the model (design).



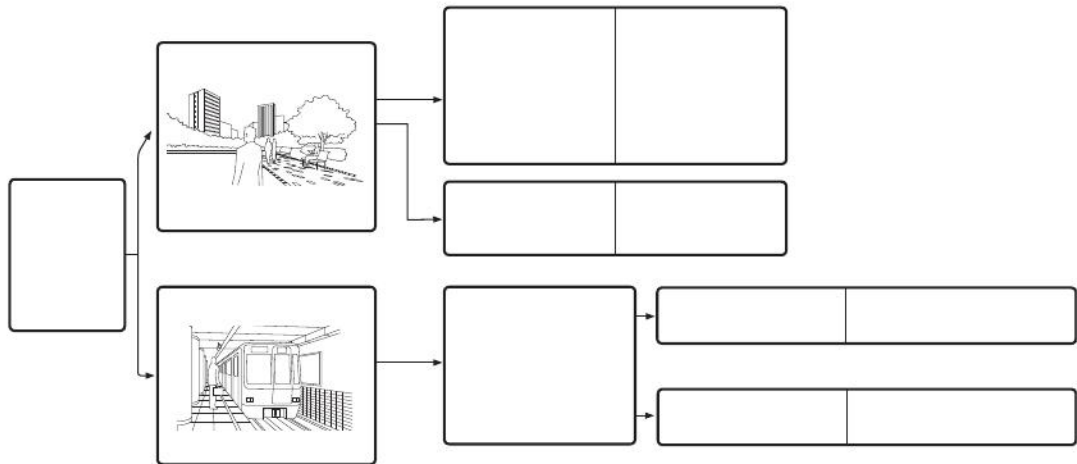






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## Place where GPS signals can be easily received/Place where GPS signals cannot be received

There are places where GPS signals can be easily received and places where GPS signals cannot be received.



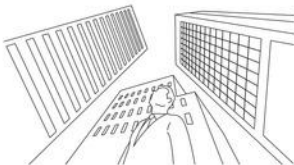
### Easy to receive

- Outdoors under an open sky with good visibility



### Difficult to receive

- The smaller the sky, the more difficult it is to receive GPS signals. In addition, it will also be difficult to receive GPS signals, if there is something that obstructs the GPS signals during reception (in particular, during time zone adjustment).



- Examples:
- Between tall buildings
  - Near wooded area
  - Station/Airport
  - Indoors with windows
  - \* GPS signals cannot be received depending on window glass type. Refer to the "X Cannot receive."

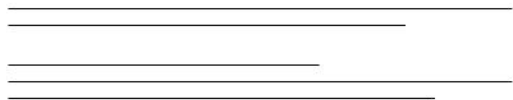


### Cannot receive

- The sky cannot be seen or only part of the sky can be seen.
- There is something hindering the reception.



- Examples:
- Indoors without windows
  - Underground
  - During passage of a tunnel
  - Through special glass with thermal emission shield effect, etc.
  - Close to equipment generating noise or performing wireless communications



## How to adjust the time zone

### 1 Go to a place where GPS signals can be easily received

Move to the outdoors under an open sky with good visibility.



→ Place where GPS signals can be easily received/Place where GPS signals cannot be received P. 16

### 2 Continue to press Button A (6 seconds), and then release it when the second hand moves to the 30-second position.

\* Although the second hand moves to the 0-second position 3 seconds after pressing Button A, continue to press it.

When the second hand has reached the 30-second position, reception is started. The indicator hand points to "4+."



\* While the indicator hand points to "E" or  $\lambda$ , reception is not started even with operation for reception.

When the hand points to "E," charge the watch by expose to light.

→ **How to charge the watch** P. 14

Check whether the watch is able/unable to receive GPS signals

→ **Check the charging status** P. 13

When the hand points to  $\lambda$ , deactivate in-flight mode.

→ **Return to normal mode ( $\lambda$ )** P. 21

### 3 Direct the watch face upward and wait

\* Please note that it may be difficult to receive GPS signals while you are in motion.



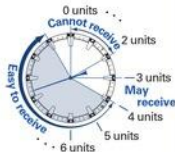
It takes a maximum of 2 minutes to complete reception.

\* It depends on the receiving conditions.

< Display during reception (= satellites acquisition status) >

The second hand indicates ease of receiving (= number of GPS satellites from which GPS signals are received).

\* The larger the number of acquired satellites, the easier it is to receive GPS signals.



\* Even when the hand points to 4 units or more, reception may not be allowed.

\* To cancel the reception, press Button B.



### 4 When the second hand points to "Y" or "N," reception is completed.

The reception result is displayed for 5 seconds.

Then, the hour and minute hands move, and the time and date are adjusted. (The time zone is also adjusted to the local time zone.)

Reception result display	Y: Successful (8-second position)	N: Failed (22-second position)
Display		
State	Use the watch as it is.	→ When the reception result is displayed as "N" P. 16

Check that the reception is successful after the watch returns to the time display mode.

→ **Check that the reception was successful** P. 28

→ **Check the time zone setting** P. 17

\* During movement of the date, the buttons and crown cannot be operated.

\* Manually set DST (Daylight Saving Time).  
→ **Set DST (Daylight Saving Time)** P. 19

## Set DST (Daylight Saving Time)

### Turn ON DST (Daylight Saving Time)

DST (Daylight Saving Time) can be manually set.

- \* DST (Daylight Saving Time) is not automatically changed.
- \* ON/OFF of the DST is not automatically changed over even with operation of time zone adjustment/manual time zone setting.  
When traveling to a region where DST (Daylight Saving Time) is not adopted from a region where it is adopted, turn off the DST setting.

#### 1 Pull out the crown to the first click

The indicator hand moves to indicate the current DST (Daylight Saving Time) setting.

< When DST (Daylight Saving Time) setting is OFF >



#### 2 Continue to press Button A

The indicator hand moves to point to "DST (ON)," and the hour and minute hands advance by one hour.



- \* In the Lord Howe Island time zone in Australia, the time is advanced by 30 minutes while DST (Daylight Saving Time) is in effect. This watch corresponds to DST in Lord Howe Island time zone.

#### 3 Push the crown back in

The second hand returns to the time display mode.

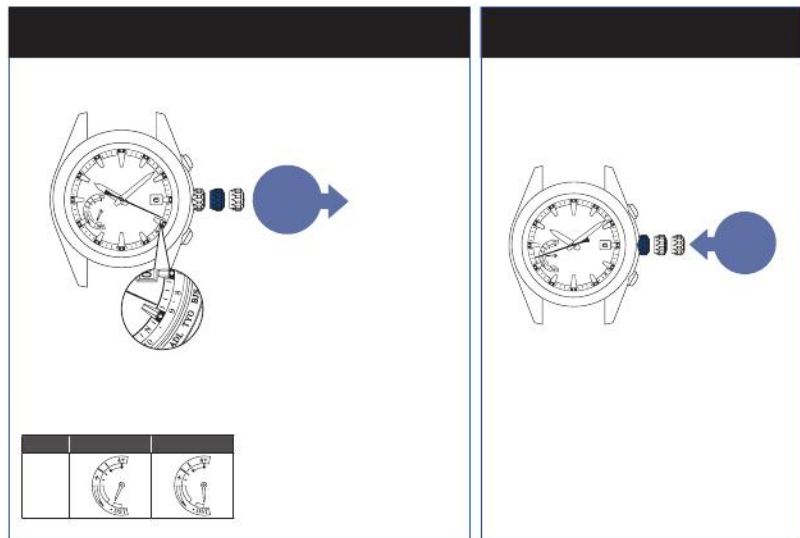
The indicator hand returns to display the charging status.



### Turn OFF DST (Daylight Saving Time)

Carry out operation of ① to ③ in the state where DST (Daylight Saving Time) setting is ON. In operation of ②, adjust the indicator hand to the "OFF" position as shown in the figure at the right. The hour and minute hands return by one hour.





## When boarding (in-flight mode (✕))

### ■ In-flight mode (✕)

Set to in-flight mode (✕) where the reception may influence operation of other electronics devices in an airplane, etc.

In in-flight mode (✕), the GPS signal reception (time zone adjustment, manual time adjustment, and automatic time adjustment) does not work.

< In-flight mode (✕) >

The indicator hand points to ✕.



\* When in-flight mode has been deactivated, the indicator hand indicates the charging status.

### ■ Set to in-flight mode (✕).

1 Press and hold Button B (3 seconds)

The indicator hand indicates the charging status.



The indicator hand points to ✕.



When in-flight mode (✕) is set, the indicator hand does not indicate the charging status.

→ To set the watch to the local time of the destination in an airplane, etc. (Manual time zone setting) P. 22

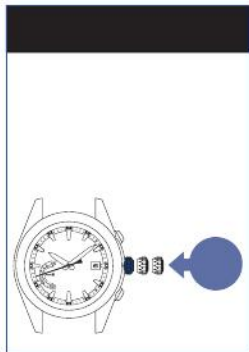
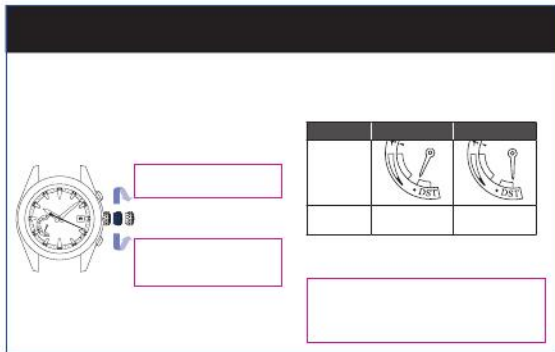
### ■ Return to normal mode (✕).

Carry out operation ①.

When the indicator hand points to "the charging status" as shown in the figure at the right, in-flight mode (✕) can be deactivated.



\* The display when the charging status is "full"





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## How to manually adjust the time

### 1 Go to a place where GPS signals can be easily received

Move to the outdoors under an open sky with good visibility.



→ Place where GPS signals can be easily received/  
Place where GPS signals cannot be received P. 16

### 2 Continue to press Button A (3 seconds), and then release it when the second hand moves to the 0-second position.

When the second hand has reached the 0-second position, reception is started. The indicator hand points to "1."



\* While the indicator hand points to "E" or  $\lambda$ , reception is not started even with operation for reception.

When the hand points to "E," charge the watch by exposing it to light.

→ **How to charge the watch** P. 14

→ **Check the charging status.** P. 13

When the hand points to  $\lambda$ , deactivate in-flight mode ( $\lambda$ ).

→ **Return to normal mode ( $\lambda$ )** P. 21

### 3 Direct the watch face upward and wait



It takes up to one minute to complete reception.

\* The reception time depends on the reception conditions.

<Display during reception (= satellites acquisition status) >

The second hand indicates ease of receiving (= number of GPS satellites from which GPS signals are received).

\* To acquire only time information, the number of satellites necessary for reception is one.

Number of acquired satellites	1	0
Display		
State	Easy to receive	Cannot receive

\* To cancel the reception, press Button B.



### 4 When the second hand points to "Y" or "N," reception is completed.

The reception result is displayed for 5 seconds. Then, the hour and minute hands move, and the time and date are adjusted.

Reception result display	Y: Successful (8-second position)	N: Failed (22-second position)
Display		
State	Use the watch as it is.	→ When the reception result is displayed as "N" P. 16

Check that the reception is successful after the watch returns to the time display mode.

→ **Check that the reception was successful** P. 28

When the time is not correct even if "Y" is displayed, the time zone may not correspond to the region where you are. Check the time zone setting.

→ **Check the time zone and DST (Daylight Saving Time) settings** P. 20




\* During movement of the date, the buttons and crown cannot be operated.

\* **Manually set DST (Daylight Saving Time).**

→ **Set DST (Daylight Saving Time)** P. 19



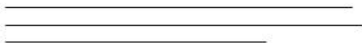
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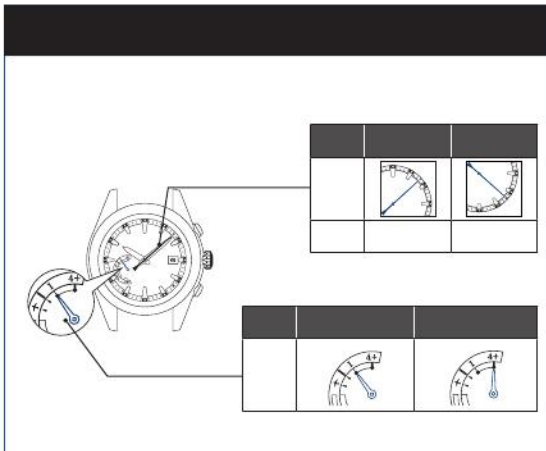
			
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## Check the leap second data reception was successful

The reception result (success or failure) of the regular leap second data reception is displayed for 5 seconds.

### 1 Press Button A and then release it

The second hand and indicator hand display the reception result.



- \* When Button A is kept pressed, the watch enters the Manual time adjustment operation.

### 2 The result of the reception is displayed

The second hand displays the result of the GPS signal reception (time adjustment or time zone adjustment).

The indicator hand points to "1" or "4+" which shows "time adjustment" or "time zone adjustment".



- \* The indicator hand points to "4+" as a result of time zone adjustment.

Second hand: Reception result (successful / failed)

Result	Successful	Failed
Display		
Position	Y 8-second position	N 22-second position

- \* After 5 seconds have elapsed or when Button B is pressed, the watch returns to the time display mode.

### 3 Press Button A and then release it while the result of the reception is displayed (for 5 seconds) in step 2

The second hand displays the result of the leap second data reception (successful / failed).

The indicator hand points to "0" when leap second data reception is occurring.



- \* When Button A is kept pressed, the watch enters the Manual time adjustment operation.
- \* After 5 seconds have elapsed, or when Button B is pressed, the watch returns to the time display mode.

Second hand: Reception result (successful / failed)

Result	Successful	Failed
Display		
Position	Y 8-second position	N 22-second position

When the leap second data reception result is Y (successful)

- The leap second data reception was successful. Use the watch as it is.



When the leap second data reception result is N (failed)

- The leap second data reception, periodically performed, has not been successful. It will be performed automatically with the next GPS signal reception (automatic time adjustment/manual time adjustment). Use the watch as it is.

- \* The leap second data is received on or after December 1<sup>st</sup> and June 1<sup>st</sup>.
- \* Even when the leap second data reception has not been successful, the time is correct until the leap second data is added (deleted).





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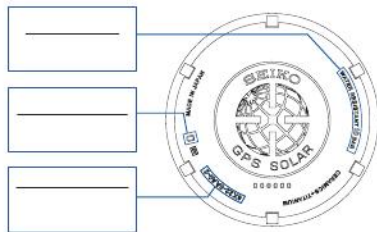
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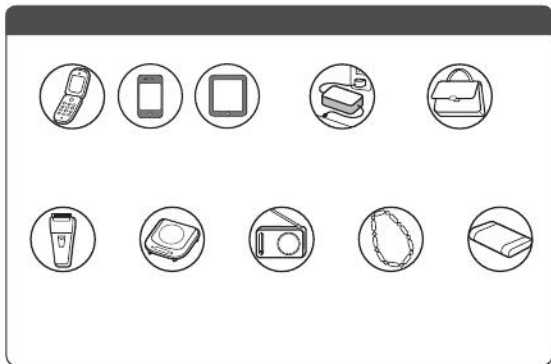
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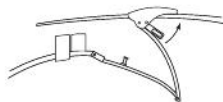
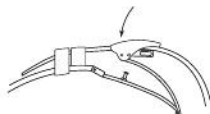
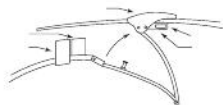
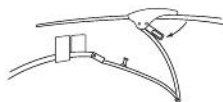
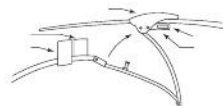
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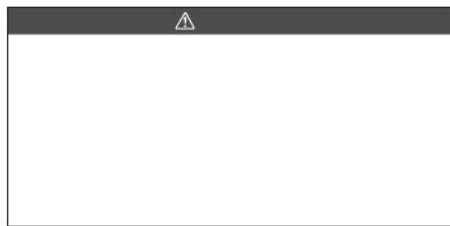
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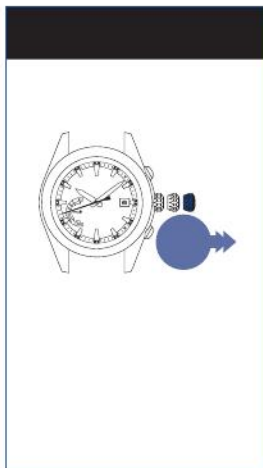
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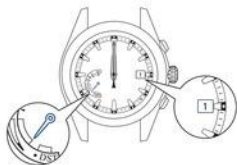


### ■ Preliminary position of this watch

The preliminary position of the date is "1" (1<sup>st</sup>).

The preliminary position of the indicator hand is "low".

The preliminary position of the hour/minute hands is "12:00 am."



### ■ Adjust the preliminary position of the date, indicator hand, and hour/minute hands

#### 1 Pull out the crown to the second click.

The second hand stops.



#### 2 Continue to press Button A (three seconds).

The watch enters the mode to adjust the preliminary position of the date.

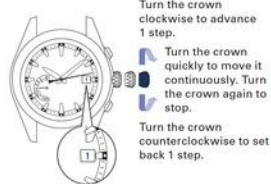


\* During movement of the date, the buttons cannot be operated.  
The second hand stops at the 13-second position. The date turns and stops to indicate the preliminary position.

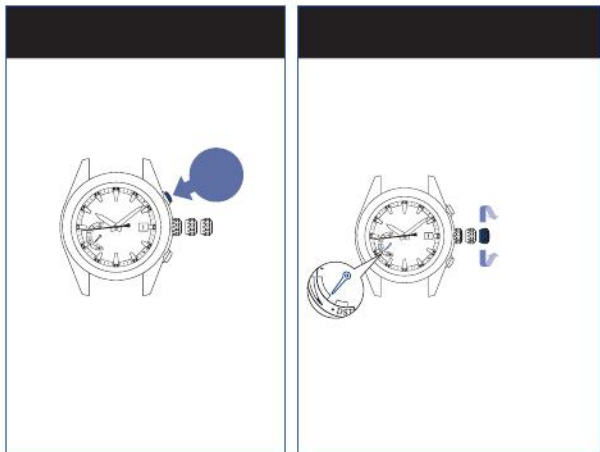
#### 3 Rotate the crown to set the date to "1."

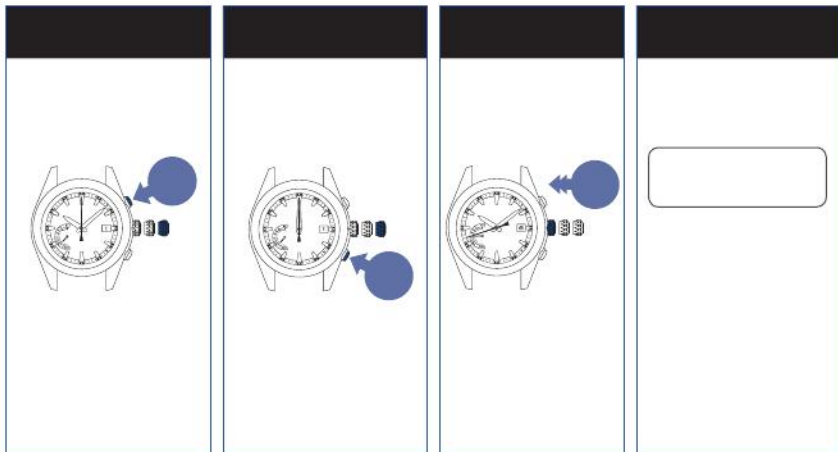
Adjust the date so that the position of "1" will locate at the center of the window.

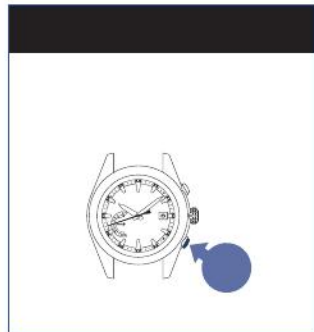
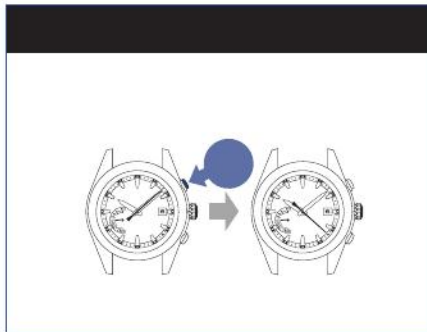
\* If "1" is displayed, go to operation of ⑧.



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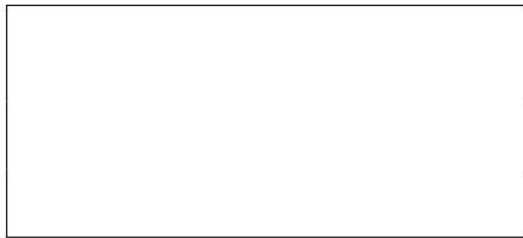
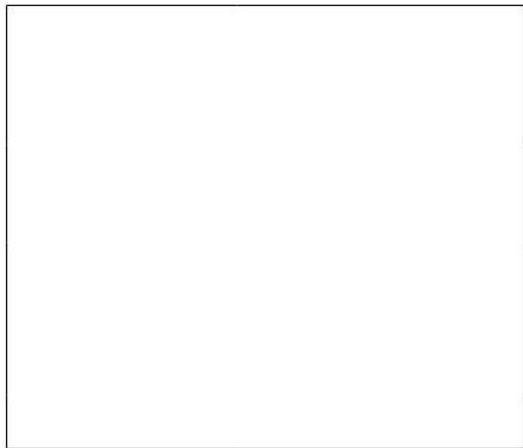
					
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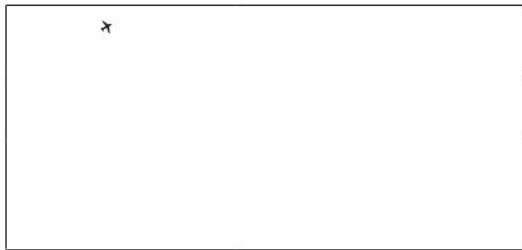






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# SEIKO

SEIKO WATCH CORPORATION

## EC Declaration of Conformity

Manufacturer: SEIKO WATCH CORPORATION  
26-1,GINZA 1-CHOME, CHUO-KU,  
TOKYO 104-8118, JAPAN

We declare under our sole responsibility that the following product (s) :

Product Name: GPS Solar Watch

Brand Name: SEIKO

Model Number: 8X22-\*\*\*\*, 8X53-\*\*\*\*, 8X82-\*\*\*\*

“\*” is alphanumeric

to which this declaration relates is in conformity with the provisions of the following directive(s):

### R&TTE Directive

DIRECTIVE 1999/5/EC OF THE EUROPEAN PARLIAMENT AND OF  
THE COUNCIL of 9 March 1999

on radio equipment and telecommunications terminal equipment and the  
mutual recognition of their conformity

### RoHS2 Directive

DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF  
THE COUNCIL of 8 June 2011

on the restriction of the use of certain hazardous substances in electrical  
and electronic equipment (recast)

Applied Harmonized Standard(s):

EN 60950-1:2006+Amd.11:2009+Amd.1:2010+Amd.12:2011

EN 301 489-1 V1.9.2:2011-09

EN 301 489-3 V1.4.1:2002-08

EN 300 440-1 V1.6.1:2010-08

EN 300 440-2 V1.4.1:2010-08

EN50581:2012

Technical Documentation is held at the following company:

R&TTE Directive SEIKO WATCH CORPORATION  
26-1,GINZA 1-CHOME, CHUO-KU,  
TOKYO 104-8118, JAPAN

RoHS2 Directive SEIKO EPSON CORPORATION  
3-5,OWA 3-CHOME,SUWA-SHI,  
NAGANO-KEN 392-8502,JAPAN

Place and Date of issue: Tokyo, May 19, 2016

Signature of Responsible Person:



Shunji Tanaka  
Senior Vice President  
Sales Division II