

BSN5X53-A2108

**SEIKO**

**ASTRON**



**GPS**  
**SOLAR**

**5X53**  
**HANDY MANUAL**

SEIKO WATCH CORPORATION

<English>

Printed in Japan

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### **Please carefully read the instructions in this Complete User Guide before using the watch.**

For details, please read the  
“5X53 (GPS Solar) Complete User Guide”

(<https://www.seikowatches.com/global-en/customerservice/instruction/>).

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

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# 1 Features

## ▣ This is a GPS solar watch.

This watch has the following features.

### GPS signal reception

This watch can be set to the precise local time by just one button operation anywhere in the world.

**DST (Daylight Saving Time) is reflected in the time that appears.**

This watch quickly adjusts the time by receiving GPS signals from GPS satellites.

This watch responds to a total of 39 time zones around the world.

When the region or time zone where the watch is used is changed, please carry out operation of "time zone adjustment."



### Solar charging Function

This watch operates by solar charging.

Expose the dial to light to charge the watch. Once fully charged, the watch runs for approximately 6 months.

When the energy stored in the watch runs out completely, it takes time to fully charge the watch, so please keep in mind to charge the watch regularly.



### Automatic time adjustment function

This watch automatically adjusts the time in accordance with action patterns during use.

When the watch has sensed sufficient brightness under an open sky, it automatically receives GPS signals from GPS satellites. This function enables the watch to automatically adjust the time precisely even while you are using the watch.

\* This watch is unable to receive GPS signals when the energy stored in the watch is low.



- \* Unlike navigation equipment, this GPS solar watch is not designed to constantly receive GPS signals from GPS satellites without any operation. This watch receives GPS signals only in the time zone adjustment mode, automatic or manual time adjustment mode.

## ▣ Standard Charging Time

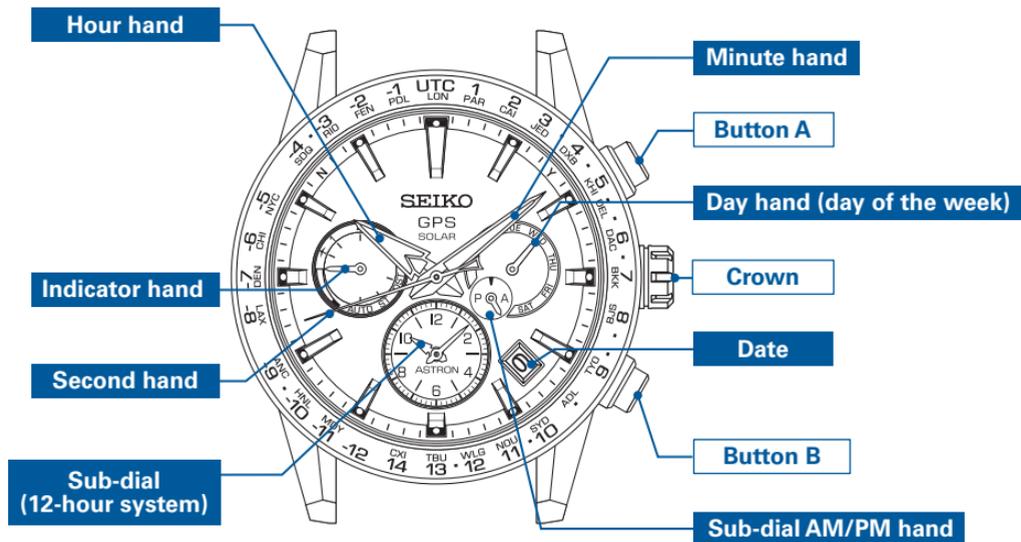
GPS signal reception consumes a lot of energy. It is necessary to charge the watch by exposing it to light so that the indicator hand points to the "middle" or "full" position. (If the charging status is displayed as "low," the reception will not start even with manual GPS signal reception.)

Illumination lx (LUX)	Light source	Condition (Example)	From the state where the watch is stopped (not charged)		In the state where the hand moves (the watch is charged)
			To fully charged	To one-second interval movement is secured	To move for one day
700	Fluorescent light	General offices	—	—	3.5 hours
3,000	Fluorescent light	30W 20cm	420 hours	12 hours	1 hours
10,000	Fluorescent light Sunlight	Cloudy day 30W 5 cm	115 hours	4 hours	15 minutes
100,000	Sunlight	Sunny day (Under the direct sunlight on a summer day)	50 hours	1.5 hours	10 minutes

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

- \*The required charging time slightly varies depending on the design and the dial color of the watch.

## 2 Names of the parts



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

# 3 Check the charging status

The indicator hand position shows whether this watch is able or unable to receive GPS signals. In addition, for the low charging state, the movement of the second hand shows the energy depletion state in further detail.

Reception is allowed

Reception is not allowed

Indicator display	Charging status	Solution
	full	Reception is allowed.
	middle	Reception is allowed, but keep in mind to charge the watch.

Indicator display	Movement of second hand	Charging status	Solution
	1-second interval movement 	low	The watch is unable to receive GPS signals, but has energy to operate.
	2-second interval movement 		The watch is unable to receive GPS signals, and does not have energy to operate. (The energy depletion forewarning function is activated.)
	5-second interval movement 		
	—	The charging status is not displayed for the in-flight mode (✕).	Reset the in-flight mode (✕) as long as possible. When the indicator hand points to "low," charge the watch following the above.

# 4 Time zone

## ▣ Time zone

Based on Coordinated Universal Time (UTC), the standard time commonly used is adopted by countries and regions around the world. The standard time is determined by each country or region, and the region where the same standard time is adopted is referred to as the time zone, and presently, the time zone is divided into 39 zones as of March 2018.

Further, DST (Daylight Saving Time) is individually adopted in countries and regions.

## ▣ DST (Daylight Saving Time)

Depending on the area, DST (Daylight Saving Time) is individually set.

Daylight Saving Time, or summer time, is a system to lengthen daylight time by advancing 1 hour when daylight time is longer during summer. Daylight saving time has been adopted in about 80 countries, mainly in Europe and North America. The adoption and duration of daylight saving time varies depending on the country.

If the time zone adjustment is successful, data regarding the adoption of DST (Daylight Saving Time) for the country in which the GPS signals were received is reflected in the time that appears.

\* Daylight Saving Time is subject to change owing to circumstances of the country or region as of March 2018.

## ▣ Coordinated Universal Time (UTC)

UTC is the universal standard time coordinated through an international agreement. UTC is the primary time standard for recording time around the world. The time obtained by adding a leap second to the "International Atomic Time (TAI)" is determined based on the atomic clock around the world. It is coordinated in order to compensate for deviations from universal time (UT) which is astronomically determined by the UTC.

# 5 Time zone display and list of time zones around the world

The following list shows the relationship between displays of the bezel and dial ring and time difference from the UTC.

Please refer to the second hand positions below to set the time zone or to check the time zone setting.

DST (Daylight Saving Time) has been adopted in countries marked with a ★. In the Lord Howe Island time zone in Australia with a ☆ mark, the time is advanced by 30 minutes while DST (Daylight Saving Time) is in effect. This watch corresponds to DST in the Lord Howe Island time zone.

\* The time zone and adoption of DST (Daylight Saving Time) for each region are current as of March 2018.



## Display of time zone

Representative city names...  
28 cities among the total of 39 time zones around the world  
Time difference...  
+14 hours ~ -12 hours

## Display of time difference

\* The displays of city code and the time difference from UTC are Subject to change depending on model.  
\* "-" between figures of the display of time difference shows that there is a time zone in that place.

City code	Display of time difference	City name	UTC ± hours
LON	UTC	★London	0
PAR	1	★Paris/ ★Berlin	+1
CAI	2	Cairo	+2
JED	3	Jeddah	+3
—	•	★Tehran	+3.5
DXB	4	Dubai	+4
—	•	Kabul	+4.5
KHI	5	Karachi	+5
DEL	•	Delhi	+5.5
—	•	Kathmandu	+5.75
DAC	6	Dhaka	+6
—	•	Yangon	+6.5
BKK	7	Bangkok	+7

City code	Display of time difference	City name	UTC ± hours
BJS	8	Beijing	+8
—	•	Pyongyang	+8.5
—	•	Eucla	+8.75
TYO	9	Tokyo	+9
ADL	•	★Adelaide	+9.5
SYD	10	★Sydney	+10
—	•	☆Lord Howe Island	+10.5
NOU	11	Nouméa	+11
WLG	12	★Wellington	+12
—	•	★Chatham Islands	+12.75
TBU	13	Nuku'alofa	+13
CXI	14	Kiritimati	+14
—	-12	Baker Island	-12

City code	Display of time difference	City name	UTC ± hours
MDY	-11	Midway islands	-11
HNL	-10	Honolulu	-10
—	•	Marquesas Islands	-9.5
ANC	-9	★Anchorage	-9
LAX	-8	★Los Angeles	-8
DEN	-7	★Denver	-7
CHI	-6	★Chicago	-6
NYC	-5	★New York	-5
SDQ	-4	Santo Domingo	-4
—	•	★St. John's	-3.5
RIO	-3	★Rio de Janeiro	-3
FEN	-2	Fernando de Noronha	-2
PDL	-1	★Azores	-1

# 6 Time zone adjustment (to adjust the time zone and time by GPS signal reception)

## Time zone adjustment



The time zone where you are is localized to adjust the watch to the precise current time by just one button operation anywhere in the world.

This reflects the data regarding the adoption of DST (Daylight Saving Time) in the country that received the GPS signals.

The time automatically switches to adjust for the adoption and duration of DST (Daylight Saving Time) for countries that follow DST (Daylight Saving Time).

"Normal time" always appears for countries that do not adopt DST (Daylight Saving Time).

## 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.



2 Continue to press Button B (3 seconds), and then release it when the second hand moves to the 30-second position.

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 "low" or  $\swarrow$ , reception is not started even with operation for reception.

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

When the hand points to  $\swarrow$ , reset the in-flight mode ( $\swarrow$ ).

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) >

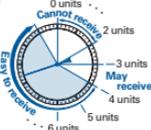
The second hand indicates ease of receiving (= number of GPS satellites from which GPS signals are received).

\* The larger the number of acquired satellites there are, 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. If reception is successful, the time and date are adjusted.

The settings for the time zone and DST (Daylight Saving Time) are reflected in the time that appears.

Reception result display	Y: Successful (8-second position)	N: Failed (52-second position)
Display		
State	Use the watch as it is.	

\* The buttons cannot be operated while the hour and minute hands, indicator hand, date, and day are moving.

## Precautions on time zone adjustment

If the time zone is adjusted near a time zone boundary, the time of the adjacent time zone may be displayed.

In some areas the boundaries observed by the watch may not exactly correlate to the actual time zone markers on the land.

This does not indicate a malfunction.

In this case, set the time zone in the manual time zone setting mode.

When the time zone is adjusted while traveling on land, avoid time zone boundaries to carry out time zone adjustment in the representative cities in the time zone whenever possible.

In addition, when the watch is used near time zone boundaries, make sure to check the time zone setting, and manually set the time zone as necessary.

# 7 Manual time adjustment (to adjust only the time by GPS signal reception)

## Manual time adjustment



The watch can be set to the precise current time of the currently set time zone.  
(The time zone is not changed.)

## 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.



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 "low" or , reception is not started even with operation for reception.

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

When the hand points to , reset the in-flight mode ().

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. If reception is successful, the time, date, and day are adjusted.

Reception result display	Y: Successful (0-second position)	N: Failed (0-second position)
Display		
State	Use the watch as it is.	

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

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.

\* The buttons cannot be operated while the hour and minute hands, indicator hand, date, and day are moving.

# 8 Manual time zone selection (to set the watch to the local time of the destination in an airplane, etc.)

## Manual time zone selection

In places where the time zone cannot be adjusted, the time zone can be set manually.

## How to manually set the time zone

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

The second hand moves to display the currently set time zone.



### 2 Turn the crown and set the second hand to the time zone of the destination

When the crown is turned, the second hand moves to the next zone.

Turn the crown clockwise to advance 1 time zone.



Turn the crown counter clockwise to set back 1 time zone.

< Display of the indicator hand >  
Displays ON/OFF setting of DST (Daylight Saving Time).

Hand position	AUTO (automatic)	ST (OFF)	DST (ON)
Display			

\* When you have selected a new time zone, even if it was "AUTO (automatic)" before the time zone selection, it switches to "DST (ON)" or "ST (OFF)."

### 3 Push the crown back in

The second hand returns to the time display mode. The indicator hand returns to display the charging status.

\* The buttons cannot be operated while the hour and minute hands, indicator hand, date, and day are moving.



# 9 DST setting of the main-dial

## ■ Turn ON DST (Daylight Saving Time)

DST (Daylight Saving Time) can be manually set.

Be sure to do the settings in the following situations.

- When the main-dial is adjusted using the manual time zone setting and DST (Daylight Saving Time) is implemented.
- When the time zone is the same, but the settings for DST (Daylight Saving Time) differ according to the area to which you move.

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

The indicator hand moves to indicate the current DST (Daylight Saving Time) setting.  
The second hand displays the current time zone.  
<When DST (Daylight Saving Time) setting is OFF >



**2** Press Button A once and then release it

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.



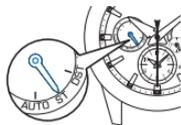
\* The indicator's DST (Daylight Saving Time) is not changed to "AUTO (automatic)" if you have done the manual time zone setting.  
Turn DST (Daylight Saving Time) off or on manually, according to whether DST (Daylight Saving Time) is implemented or not.

## ■ 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 "ST (OFF)" position as shown in the figure at the right.

The hour and minute hands return by one hour.



# 10 Manual time zone selection of the sub-dial

## Manual time zone selection of the sub-dial

Adjust the sub-dial by selecting the time of the time zone.

\* The sub-dial cannot be adjusted to a time outside the time zone.

## How to manually set the time zone of the sub-dial

1 Pull out the crown to the second click

The second hand moves to display the sub-dial of the currently set time zone.



2 Turn the crown and set the second hand to the time zone of the destination

When the crown is turned, the second hand moves to the next zone.

Turn the crown clockwise to advance 1 time zone.



Turn the crown counter clockwise to set back 1 time zone.

< Display of the indicator hand >  
Displays ON/OFF setting of DST (Daylight Saving Time).

Hand position	AUTO (automatic)	ST (OFF)	DST (ON)
Display			

\* When you have selected a new time zone, even if it was "AUTO (automatic)" before the time zone selection, it switches to "DST (ON)" or "ST (OFF)."

3 Push the crown back in

The second hand returns to the time display mode. The indicator hand returns to the display of charging status.

\* The buttons cannot be operated while the hour and minute hands, indicator hand, date, and day are moving.



# 11 DST setting of the sub-dial

## ▣ Set the DST (Daylight Saving Time) of the sub-dial.

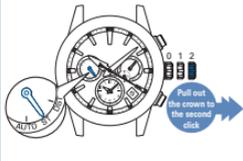
**DST (Daylight Saving Time) can be manually set.**

- \* Normally, the indicator's DST (Daylight Saving Time) is not changed to "AUTO (automatic)" if the sub-dial is adjusted via manual time zone selection. Turn DST (Daylight Saving Time) manually on or off, according to whether DST (Daylight Saving Time) is implemented or not.
- \* It is unnecessary to do settings for DST (Daylight Saving Time) if DST = "AUTO (automatic)" is set in the sub-dial when the time for the main-dial and the sub-dial has been changed.

**1** Pull out the crown to the second click

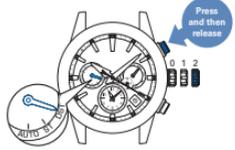
The indicator hand displays the DST (Daylight Saving Time) settings for the sub-dial.  
The second hand displays the current time zone for the sub-dial.

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



**2** Press Button A once and then release it

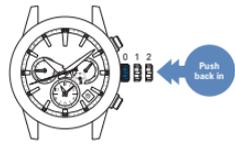
The indicator hand moves to point to "DST (ON)," and the hour and minute hands advance by one hour.



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

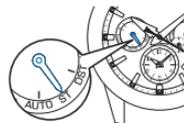
**3** Push the crown back in

The second hand returns to the time display mode.  
The indicator hand returns to the display of charging status.



## ▣ Turn OFF DST (Daylight Saving Time)

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



# 12 Switching between the main-dial and sub-dial

Your watch can switch between its main-dial and sub-dial.

Both the conditions for DST (Daylight Saving Time) set in the main-dial and the conditions for DST (Daylight Saving Time) set in the sub-dial switch.

This comes in handy in the following situations.

- Matching the main-dial to the time for the time zone set in the sub-dial
- To use you watch, adjust the main-dial to the local time, and then, after returning home, restore the main-dial to the sub-dial's Japan Standard Time

## How to switch the main-dial and sub-dial

1 Press and hold buttons A and B at the same time (1 second)



The second hand indicates the time zone for the basic time that was switched. The indicator hand indicates the setting status for DST (Daylight Saving Time) of the basic time that was switched. Afterward, the main-dial's hour and minute hands, sub-dial, date, and day switch, in that order. Finally, the second hand returns to the time display, and the indicator hand returns to the charging status display.

- \* The indicator hand spins a number of times if the date changes; however, this is not a malfunction.
- \* The buttons cannot be operated while the hour and minute hands, indicator hand, date, and day are moving.

# 13 When boarding (in-flight mode (X))

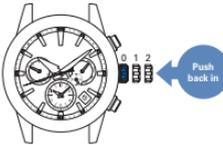
## ■ In-flight mode (X)    ■ Set to the in-flight mode (X).

Set to the in-flight mode (X) where the reception may influence operation of other electronics devices in an airplane, etc. In the in-flight mode (X), the GPS signal reception (time zone adjustment, manual time adjustment, and automatic time adjustment) does not work.

< In-flight mode (X) >  
The indicator hand points to X.

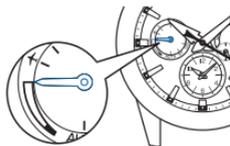


\* When the in-flight mode (X) is reset, the indicator hand indicates the charging status.

<p><b>1</b> Pull out the crown to the first click</p> <p>The second hand moves to display the currently set time zone. The indicator hand indicates DST (Daylight Saving Time) setting.</p> 	<p><b>2</b> Continue to press Button B (3 seconds)</p> <p>The indicator hand displays the in-flight mode (X) (5 seconds). Afterward, it indicates the DST (Daylight Saving Time).</p> 	<p><b>3</b> Push the crown back in</p> <p>The indicator hand returns to display of charging status.</p> 
<p>* Pressing Button A or turning the crown takes you back to the 1 operation.</p>	<p>When the in-flight mode (X) is set, the indicator hand does not indicate the charging status.</p>	

## ■ Reset the in-flight mode (X).

Turn off the in-flight mode when leaving an airplane, etc. If it is not turned off, the watch will not be able to receive GPS signals. Carry out operation 1 to 3. When the indicator hand points to “the charging status” in the figure at the right, the in-flight mode (X) is reset.



\* The display when the charging status is “full”

# 14 Leap second (Automatic leap second reception function)

## ▣ Leap second

The leap second is to compensate for deviations from the universal time (UT) which is astronomically determined and the "International Atomic Time (TAI). "1 second" may be added (deleted) once a year or every few years.

## ▣ Automatic leap second reception function

A leap second is automatically added by receiving "leap second data" from GPS signals at the time of leap second addition (delete).

\* "Leap second data" includes information about future leap second addition and current leap second data.

## ▣ Receiving Leap Second Data

When the GPS signal reception (automatic time adjustment, manual time adjustment, or time zone adjustment) is performed on or after December 1st and June 1st, the indicator hand may display as shown at the right.



**When the leap second data reception is completed, the indicator hand returns to display the charging status. Use the watch as it is.**

\* The leap second data reception is performed every half a year regardless of leap second addition.

**It takes up to 18 minutes to receive the leap second data.**

When GPS signals are received under the following conditions, the leap second data reception is also started.

- GPS signals are received after the system reset
- GPS signals have not been received for a long time
- Leap second data reception has failed

(Leap second data reception is performed again during the next GPS signal reception. It is repeated until the leap second data reception is successful.)

# 15 Reception result display

## Check whether the leap second data reception was successful

The successful / failed reception result 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 52-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 displays "LEAP SEC." of the leap second data reception.



- \* 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 52-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 or time zone 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).



## SPECIFICATIONS

# SEIKO

- 1. Basic function** ..... Main-dial (hour, minute, and second hands), date display, day display, indicator function, dual time display function (with AM/PM hand), world time function (39 time zones)
- 2. Frequency of crystal oscillator** ... 32,768 Hz (Hz = Hertz ... Cycles per second)
- 3. Loss/gain (monthly rate)** ..... Loss / gain  $\pm 15$  seconds on a monthly rate (When the watch is used without an automatic time setting by receiving GPS signal and when it is worn on the wrist within a normal temperature range between 5°C and 35°C (41°F and 95°F)).
- 4. Operational temperature range** ... Between -10°C and +60°C (14°F and 140°F)
- 5. Driving system** ..... Step motor: main-dial (hour, minute, and second hands), day hand, indicator hand and date, sub-dial (hour, minute, and AM/PM hand).
- 6. Power source** ..... Secondary battery, 1 piece
- 7. Duration of operation** ..... Approximately 6 months (Fully charged, and the Power Save is not activated).  
\* If the Power Save is activated after it is fully charged, the watch continues to run for approximately 2 years at maximum.
- 8. GPS signal reception function** ... Time zone adjustment, manual time adjustment, automatic time adjustment
- 9. IC (Integrated Circuit)** ..... Oscillator, frequency divider and driving circuit C-MOS-IC, 4 pieces

\* The specifications, as noted above, are subject to change without prior notice for product improvement purposes.

Product : GPS solar watch

Model : 5X53

TRC/SS/2018/370



This product is in compliance with the essential requirements and other relevant provisions of the RE Directive (2014/53/EU)& RoHS Directive(2011/65/EU).

<https://www.seikowatches.com/global-en/products/declaration-conformity>



This product is in compliance with the essential requirements and other relevant provisions of Radio Equipment Regulations 2017 & The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012.

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