

Cal. 5T52

INSTRUCTIONS	(P. 3)
INSTRUCTIONS	(P. 29)
INSTRUCCIONES	(P. 55)
GEBRAUCHSANWEISUNGEN	(S. 82)
ISTRUZIONI	(P. 109)
INSTRUÇÕES	(P. 136)
用法説明	(162 頁)

You are now the proud owner of a SEIKO Analogue Quartz Watch Cal. 5T52. For best results, please read the instructions in this booklet carefully before using your SEIKO Analogue Quartz Watch. Please keep this manual handy for ready reference.

Vous voici l'heureux propriétaire d'une montre quartz analogique SEIKO Cal. 5T52. Pour obtenir d'excellentes performances de cette article SEIKO, veuillez lire attentivement cette brochure que vous conserverez pour toute référence ultérieure.

Enhorabuena por su adquisición de un reloj SEIKO analógico de cuarzo Cal. 5T52. Para óptimo resultado, lea detenidamente las instrucciones de este folleto antes de usar el reloj. Guarde este manual para consulta posterior.

Sie sind jetzt Besitzer einer SEIKO Analog-Quarzuhr Kal. 5T52. Bitte lesen Sie diese Bedienungsanleitung vor Verwendung der Uhr sorgfältig durch und heben Sie sie gut auf.

Siete ora in possesso di un orologio SEIKO Analogico al Quarzo Cal. 5T52. Per ottenere i migliori possibili risultati dal Vostro orologio, leggere attentamente le istruzioni di questo manuale prima di utilizzare il Vostro orologio SEIKO analogico al quarzo. Conservare poi il manuale stesso per ogni qualsiasi eventuale futuro riferimento.

Você pode sentir-se orgulhoso de possuir um Relógio SEIKO Quartz Análogo Cal. 5T52. Para obter os melhores resultados, leia atentamente as instruções contidas neste opúsculo antes de usar o seu Relógio SEIKO Quartz Análogo. Queira cnservar este manual para referências futuras.

閣下現在已經擁有一隻，機件編號為5T52的精工牌指針式石英錶。在使用您的精工牌指針式石英錶以前，務請注意閱讀這本小冊子中的各項說明。並請將手冊妥加保管，以便隨時參考。

CONTENTS

	Page
FEATURES	4
DISPLAY AND CROWN/BUTTON OPERATION	5
MAIN TIME SETTING	7
DATE SETTING	8
WORLD TIME	9
TIME DIFFERENCES	14
ALARM	16
RESETTING THE IC	21
BATTERY LIFE INDICATOR	22
BATTERY CHANGE	22
TO PRESERVE THE QUALITY OF YOUR WATCH	23
SPECIFICATIONS	27

SEIKO ANALOGUE QUARTZ

Cal. 5T52

FEATURES

The SEIKO Quartz Watch Cal. 5T52 is a multi-display analogue watch featuring world time and alarm functions.

■ MAIN TIME

Hour and minute hands with a small second hand.

■ CALENDAR

Date is displayed in numerals.

■ WORLD TIME

The time of 24 cities in different time zones throughout the world is displayed in the 24-hour indication with 2 small hands.

Daylight saving time (summer time) can also be displayed.

■ REGULAR ALARM

Can be set to ring regularly at 12-hour intervals.

■ SINGLE-TIME ALARM

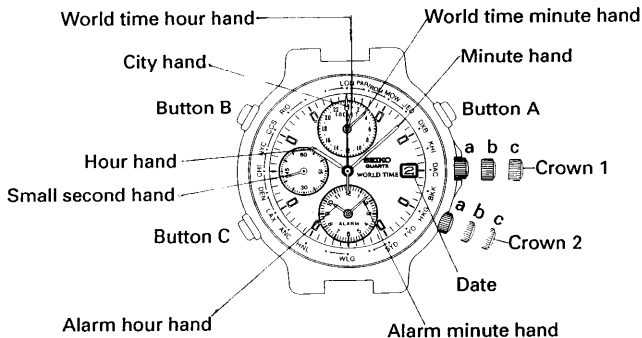
Can be set to ring at a single designated time.

■ BATTERY LIFE INDICATOR

The small second hand moves at two-second intervals when the battery needs to be replaced.

DISPLAY AND CROWN/BUTTON OPERATION

There are three buttons and two crowns as shown in the illustration below.



Crown 1

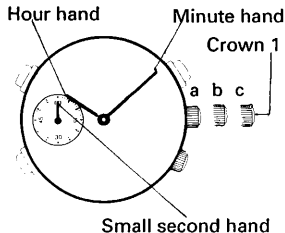
- (a) Normal position : Selection of the city
- (b) First click:
- Date setting by turning the crown clockwise
 - World time setting by pressing "A" or "B"
- (c) Second click:
- Main time setting
 - Adjusting the city hand by pressing "A" or "B"

Crown 2

- (a) Normal position : Single-time alarm mode
- (b) First click : Regular alarm mode
- (c) Second click : Alarm hour and minute hands setting

Note: When the battery is replaced with a new one, be sure to adjust the city hand to the 12 o'clock position and set the main time, world time and alarm hands.
(Refer to "Adjusting the city hand", "MAIN TIME SETTING", "World time setting" and "ALARM".)

MAIN TIME SETTING



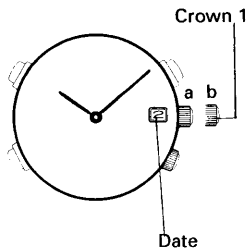
1. Pull out crown "1" all the way to the second click when the small second hand is at the 12 o'clock position.
2. Turn crown "1" clockwise or counterclockwise to set the hour and minute hands to the desired time.
3. Push crown "1" back in to the normal position in accordance with a time signal.

- (a) Normal position
 (b) First click
 (c) Second click

Notes:

1. When setting the hour hand, check that AM/PM is correctly set. The watch is so designed that the date changes once in 24 hours. Turn the hands past the 12 o'clock marker to determine whether the watch is set to the A.M. or P.M. period. If the date changes, the time is set for the A.M. period. If the date does not change, the time is set for the P.M. period.
2. When setting the minute hand, advance it 4 to 5 minutes ahead of the desired time and then turn it back to the exact minute.

DATE SETTING



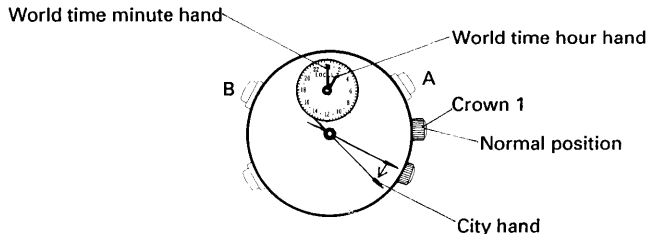
1. Pull out crown "1" to the first click.
2. Turn crown "1" clockwise until the desired date appears in the date frame.
3. Push crown "1" back in to the normal position.

- (a) Normal position
(b) First click

Note: Do not set the date between 9:00 p.m. and 3:00 a.m. Otherwise, the date may not change properly. If it is necessary to set the date during that time period, first change the time to any time outside this period, set the date and then reset the correct time.

WORLD TIME

- **How to use the world time function**



1. Make sure that crown "1" is at the normal position.
2. Press "A" or "B" repeatedly to turn the city hand to the desired city on the bezel.
* The city hand turns clockwise or counterclockwise by pressing "A" or "B", respectively. It moves quickly if the respective button is kept pressed.
3. The small hour and minute hands of the WORLD TIME display automatically move to indicate the time of the city you have selected.

- **World time setting**

The time of a selected city is displayed in the 24-hour indication with 2 small hands.

Ex.)

8:36 AM



4:05 PM



1. Make sure that crown "1" is at the normal position.
2. Press "A" or "B" repeatedly to turn the city hand to the desired city on the bezel.
* The city hand turns clockwise or counterclockwise by pressing "A" or "B", respectively. It moves quickly if the respective button is kept pressed.
3. Pull out crown "1" to the first click, and press "A" or "B" to set the small hour and minute hands of the WORLD TIME display to the current time of the selected city.

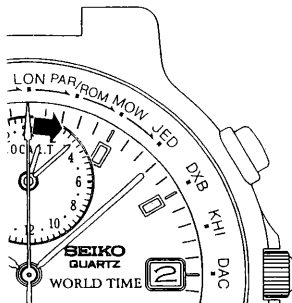
- * The small hands turn clockwise or counterclockwise by pressing "A" or "B", respectively. They move quickly if the respective button is kept pressed.
- 4. Push back crown "1" in to the normal position. The small hands of the WORLD TIME display start moving.

- **How to use the daylight saving time (summer time) function**

The WORLD TIME display can be set to display daylight saving time (summer time). Daylight saving time is a system adopted in some countries to make the best use of the daytime during a certain period in summer. Under this system the time is advanced one hour from the regular time.

If daylight saving time is used in a city on the bezel, an arrow mark is printed on the right of the city marker.

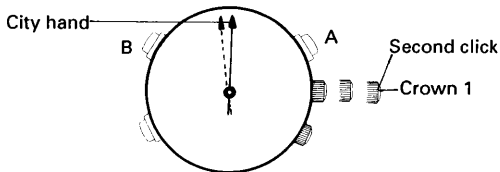
1. With crown "1" at the normal position, press "A" or "B" to set the city hand to the desired city marker on the bezel.
2. Press "A" to turn the city hand clockwise to the next marker as indicated by the arrow on the bezel. The WORLD TIME display is advanced by one hour from the regular time to indicate the daylight saving time of the selected city.



Note: The time differences and the use of the daylight saving time (summer time) may change in some areas or countries when they are so decided by the countries concerned.

• Adjusting the city hand

If the city hand does not indicate the selected city precisely, adjust it to the proper position following the procedure below.



1. Pull out crown "1" all the way to the second click.
2. Press "A" or "B" to adjust the city hand to the 12 o'clock position.
 * The city hand turns clockwise or counterclockwise by pressing "A" or "B", respectively. It moves quickly if the respective button is kept pressed.
3. Push back crown "1" in to the normal position.
 * After adjusting the city hand, be sure to set the main time, world time and alarm again. (Refer to "MAIN TIME SETTING", "World time setting" and "ALARM".)

TIME DIFFERENCES

(GMT) = Greenwich Mean Time

(As of May, 1994)

GMT ± (hours)	Marking on the bezel/dial	Name of city	Other cities
0	LON	London*	Casablanca, Dakar
+ 1	PAR ROM	Paris* Rome*	Amsterdam*, Frankfurt* Berlin*
+ 2	MOW	Moscow*	Athens*, Cairo*, Istanbul*, Kiev* Cape Town, Tripoli
+ 3	JED	Jeddah	Mecca, Nairobi
+ 4	DXB	Dubai	
+ 5	KHI	Karachi	Tashkent
+ 6	DAC	Dacca	
+ 7	BKK	Bangkok	Phnom Penh, Jakarta
+ 8	HKG	Hong Kong	Manila, Beijing, Singapore
+ 9	TYO	Tokyo	Seoul, Pyongyang
+ 10	SYD	Sydney*	Guam, Khabarovsk*
+ 11	—		Nouméa (New Caledonia) Solomon Islands
+ 12	WLG	Wellington*	Fiji Islands, Auckland*
— 11	—		Midway Islands
— 10	HNL	Honolulu	

GMT ± (hours)	Marking on the bezel/dial	Name of city	Other cities
- 9	ANC	Anchorage*	
- 8	LAX	Los Angeles*	San Francisco*, Vancouver*
- 7	DEN	Denver*	Edmonton (Canada)*
- 6	CHI	Chicago*	Mexico City
- 5	NYC	New York*	Washington, D.C.* Montreal*, Toronto*
- 4	CCS	Caracas	Santiago (Chile)*
- 3	RIO	Rio de Janeiro	Buenos Aires
- 2	-		
- 1	-		Azores*, Cape Verde Islands

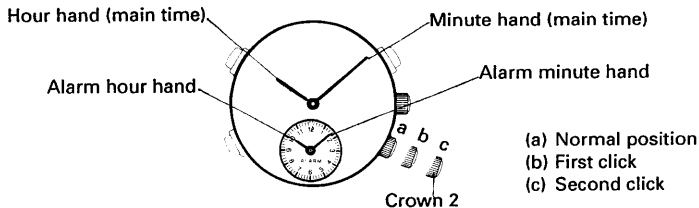
* The asterisk ("*") indicates a city which uses daylight saving time (summer time).

Notes:

- As of January 19, 1992, the standard time of Moscow was advanced one hour on the basis of Greenwich Mean Time (GMT), and thus the time differences between them was changed from "+2" to "+3". When using the world time function to show the current time of Moscow, set the city hand to the marker to the right of Moscow.
* Some models may have the proper time difference of Moscow printed on the bezel or dial.
- The markings on the bezel/dial differ depending on the model.

ALARM

- Before using the alarm, be sure to set the alarm hour and minute hands to the current time, following the procedure below.



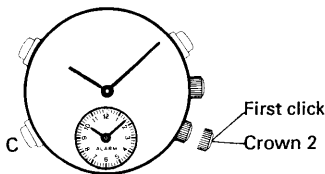
1. Pull out crown "2" all the way to the second click. There is a warning beep for one second, and the alarm hands stop on the spot.
2. Turn crown "2" to set the alarm hour and minute hands to the current time indicated by the hands of the MAIN TIME display.
3. Push back crown "2" in to the normal position.
* By pushing back crown "2" in to the normal position when the small second hand of the MAIN TIME display is at the 12 o'clock position, the ALARM display can be set exactly to the second.

Note: By setting the alarm hands to the time of the WORLD TIME display, the alarm can be set to ring for any of the cities on the bezel.

1) Regular alarm

The regular alarm can be set to ring at the designated time on a 12-hour basis.

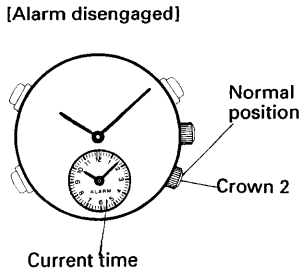
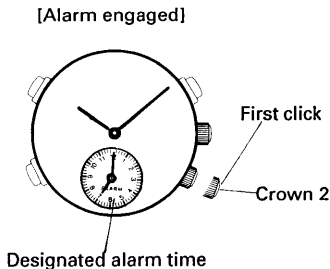
Alarm setting



1. Pull out crown "2" to the first click.
 - * If crown "2" is pulled out to the first click within one minute after the alarm hands are set to the current time, the alarm rings.
2. Press "C" repeatedly to set the alarm hour and minute hands to the desired alarm time.
 - * With each press of "C", the hands move one minute. They move quickly if the button is kept pressed.

Engagement/disengagement of the regular alarm

- To engage the alarm, pull out crown "2" to the first click. A chime rings and the alarm hands indicate the designated alarm time.
 - * The alarm rings at the designated time for 20 seconds. To stop it manually, press "A", "B" or "C", or push back crown "2" in to the normal position.
- To disengage the alarm, push back crown "2" in to the normal position. The alarm hands indicate the current time.

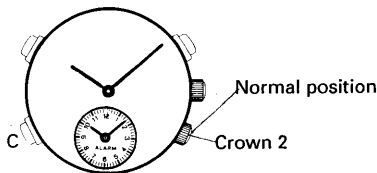


Note: Please note that, if crown "2" is pulled out to the second click, the designated alarm time is canceled with a warning beep and the alarm hands stop on the spot. In that case, re-set the alarm hour and minute hands to the MAIN TIME, and then, set the regular alarm to the desired time again. However, the designated alarm time will not be canceled if crown "2" is pushed back in to the first click or the normal position before the warning beep stops.

2) Single-time alarm

The single-time alarm can be set to ring only once at a designated alarm time. As it rings, it is automatically disengaged.

Alarm setting



1. Make sure that crown "2" is at the normal position.
2. Press "C" repeatedly to set the alarm hands to the desired alarm time.
* With each press of "C", the hands move one minute. They move quickly if the button is kept pressed.
3. The small hands remain stopped at the set position until the designated alarm time.
4. At the designated alarm time, the beeping sound begins. The single-time alarm is automatically disengaged, and the alarm hands start moving to indicate the current time.

Note: The single-time alarm can be set on a 12-hour basis. If you try to set the alarm for a time more than 12 hours from the current time, the alarm is disengaged when the alarm hands indicate the current time.

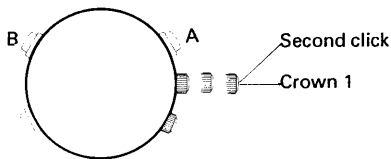
Engagement/disengagement of the single-time alarm

- The single-time alarm is automatically engaged if "C" is pressed to set the alarm time.
* The single-time alarm rings at the designated time for 20 seconds and stops. To stop it manually, press "A", "B" or "C", or pull out crown "2" to the first click.
- To disengage the single-time alarm, pull out crown "2" to the first click and push it back in to the normal position, or press "C" to set the alarm hands to the current time.

Note: Please note that if crown "2" is pulled out to the first click, the designated alarm time is canceled. In that case, push the crown back in to the normal position and set the single-time alarm to the desired time again.

RESETTING THE IC

- In case any of the watch hands should move improperly, follow the procedure below to adjust the hand movement.



1. Pull out crown "1" to the second click.
2. Press "A" and "B" simultaneously.
3. Push back crown "1" in to the normal position. The IC will be reset, and normal movement of the hands will return. Before using the watch again, be sure to adjust the city hand to the 12 o'clock position and set the main time, world time and alarm hands to the desired time. (Refer to "Adjusting the city hand", "MAIN TIME SETTING", "World time setting" and "ALARM".)

BATTERY LIFE INDICATOR

When the battery nears its end, the small second hand moves at two-second intervals instead of normal one-second intervals to indicate that the battery needs to be replaced with a new one.

Note: If the small second hand starts moving at two-second intervals, the alarm will not ring. Therefore, if you see the small second hand moving at two-second intervals, replace the battery with a new one as soon as possible.

BATTERY CHANGE



**2
Years**

The miniature battery which powers your watch should last approximately 2 years. However, because the battery is inserted at the factory to check the function and performance of the watch, its actual life once in your possession may be less than the specified period. When the battery expires, be sure to replace it as soon as possible to prevent any malfunction. For battery replacement, we recommend that you contact an **AUTHORIZED SEIKO DEALER** and request **SEIKO SR927W** battery.

Note: When the battery is replaced with a new one, be sure to adjust the city hand to the 12 o'clock position and set the main time, world time and alarm hands.

(Refer to "Adjusting the city hand", "MAIN TIME SETTING", "World time setting" and "ALARM".)

TO PRESERVE THE QUALITY OF YOUR WATCH

■ WATER RESISTANCE



- **Non-water resistance**

If "WATER RESISTANT" is not inscribed on the case back, your watch is not water resistant, and care should be taken not to get it wet as water may damage the movement. If the watch becomes wet, we suggest that you have it checked by an AUTHORIZED SEIKO DEALER or SERVICE CENTER.



- **Water resistance (3 bar)**

If "WATER RESISTANT" is inscribed on the case back, your watch is designed and manufactured to withstand up to 3 bar, such as accidental contact with splashes of water or rain, but it is not designed for swimming or diving.



- **Water resistance (5 bar)***
If "WATER RESISTANT 5 BAR" is inscribed on the case back, your watch is designed and manufactured to withstand up to 5 bar and is suitable for swimming, yachting and taking a shower.
- **Water resistance (10 bar/15 bar)***
If "WATER RESISTANT 10 BAR" or "WATER RESISTANT 15 BAR" is inscribed on the case back, your watch is designed and manufactured to withstand up to 10 bar/15 bar and is suitable for taking a bath and shallow diving, but not for scuba diving. We recommend that you wear a SEIKO Diver's watch for scuba diving.
- * Before using the water resistance 5, 10, or 15 bar watch in water, be sure the crowns are pushed in completely.
Do not operate the crowns and buttons when the watch is wet or in water.
If used in sea water, rinse the watch in fresh water and dry it completely.
- * When taking a shower with the water resistance 5 bar watch, or taking a bath with the water resistance 10 or 15 bar watch, be sure to observe the following:
 - Do not operate the crowns or push the buttons when the watch is wet with soapy water or shampoo.
 - If the watch is left in warm water, a slight time loss or gain may be caused. This condition, however, will be corrected when the watch returns to normal temperature.

NOTE:

Pressure in bar is a test pressure and should not be considered as corresponding to actual diving depth since swimming movement tends to increase the pressure at a given depth. Care should also be taken on diving into water.

**■ TEMPERATURES**

Your watch works with stable accuracy between a temperature range of 5°C and 35°C (41°F and 95°F).

Temperatures over 60°C (140°F) may cause battery leakage or shorten the battery life.

Do not leave your watch in very low temperatures below -10°C (+14°F) for a long time since the cold may cause a slight time loss or gain.

However, the above conditions will be corrected when the watch returns to normal temperature.

**■ SHOCKS & VIBRATION**

Light activities will not affect your watch, but be careful not to drop your watch or hit it against hard surfaces, as this may cause damage.

**■ MAGNETISM**

Your watch will be adversely affected by strong magnetism. Keep it away from close contact with magnetic objects.



■ CHEMICALS

Be careful not to expose the watch to solvents (e.g., alcohol and gasoline), mercury (i.e., from a broken thermometer), cosmetic spray, detergents, adhesives or paints. Otherwise, the case, bracelet, etc. may become discolored, deteriorated or damaged.



■ CARE OF CASE AND BRACELET

To prevent possible rusting of the case and bracelet caused by dust, moisture and perspiration, wipe them periodically with a soft, dry cloth.



■ PRECAUTION REGARDING CASE BACK PROTECTIVE FILM

If your watch has a protective film and/or a sticker on the case back, be sure to peel them off before using your watch. Otherwise, perspiration getting in under them may rust the case back.



■ PERIODIC CHECK

It is recommended that the watch be checked once every 2 to 3 years. Have your watch checked by an AUTHORIZED SEIKO DEALER or SERVICE CENTER to ensure that the case, crowns, buttons, gasket and crystal seal remain intact.

SPECIFICATIONS

1. Frequency of crystal oscillator 32,768 Hz (Hz = Hertz ... Cycles per second)
2. Loss/gain (monthly rate) Less than 15 seconds at normal temperature range (5°C ~ 35°C) (41°F ~ 95°F)
3. Accuracy of the alarm
(monthly rate) ± 1 minute at normal temperature range (5°C ~ 35°C) (41°F ~ 95°F)
4. Operational temperature range -10°C ~ +60°C (14°F ~ 140°F)
5. Driving system Step motor, 4 pieces
6. Display system
 - Main time Hour, minute and small second hands.
 - Date Displayed in numerals.
 - World time Small hour and minute hands, and city hand.
 - Alarm Small hour and minute hands.
 - Regular alarm: Can be set on a 12-hour basis.
 - Single-time alarm: Can be set to ring only once at a designated time.

7. Battery SEIKO SR927W, 1 piece.

8. IC (Integrated Circuit) C-MOS-LSI

* The specifications are subject to change without prior notice, for product improvement.