SEIKO

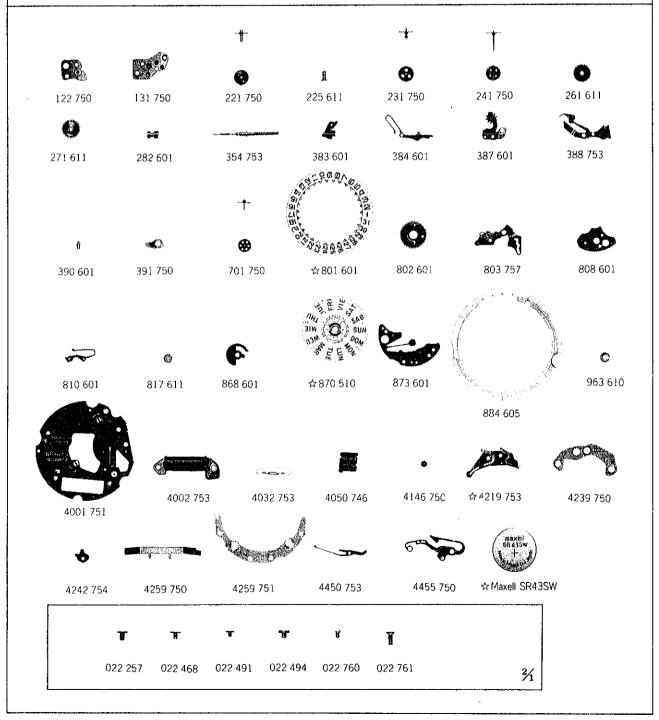
QUARTZ

Cal. 7559A

Cal. 7559A







Cal. 7559A

Characteristics

Casing diameter:

¢ 27.0 mm

Maximum height:

4.6 mm without battery

Jewels:

Frequency of quartz crystal oscillator: 32,768 Hz (Hz \approx Hertz \dots Cycles per second)

Driving system: Step motor system (2 poles) Regulation system: Trimmer condenser

Second setting device

Calendar (Day & Date)

Instant setting device for day & date calendar Bilingual change-over system for day of the week

Illuminating light: Illuminates the dial in the dark by depressing the crown.

Battery life indicator: Second hand moves in two-second interval.

	Battery lire indicator: Second hand liloves in two-sec		PART NAME
PART NO.	PART NAME	PART NO.	PART NAME
122 750	Center wheel bridge	027 866	Switch lever axle
. 131 750	Third wheel bridge	022 257	Setting lever spring screw
221 750	Center wheel & pinion	022 468	Center wheel bridge screw
225 611	Cannon pinion	022 468	Third wheel bridge screw
231 750	Third wheel & pinion	022 468	Circuit block screw
241 750	Fourth wheel & pinion	022 468	Screw for plus terminal of battery
261611	Minute wheel		connection
271611	Hour wheel	022 468	Date driving wheel screw
282 601	Clutch wheel	022 491	Minute wheel bridge screw
354753	Winding stem	022 494	Reset lever screw
383 601	Setting lever	022 760	Day jumper screw
384 601	Yoke (Clutch lever)	022 760	Date dial guard screw
387 601	Minute wheel bridge	022 761	Dial screw
388 753	Setting lever spring	☆Maxell SR43SW)	Silver oxide battery
390 601	Setting lever axle	☆U.C.C.301	Silver oxide buttery
391 750	Second setting lever		
701 750	Fifth wheel & pinion		
☆801 601	Date dial		
☆801 604 🗐			
802 601	Date driving wheel		
803 757	Setting wheel lever complete		
808 601	Date dial guard		
810 601	Date jumper		
817 611	Intermediate date wheel		
868 601	Day finger		
☆870 510 } ☆870 601 ∫	Day star with dial disk		
873 601	Day jumper		
884 605	Holding ring for dial		
963 610	Snap for day star with dial disk		
4001 751	Circuit block		
4002 753	Coil block		
4032753	Bulb block		
4050 746	Circuit bridge plate		
4146 750	Step rotor	İ	
₹4219 753	Bulb terminal insulator		
4239 750	Rotar stator		
4242 754	Plus temrinal of battery connection	1	
4259 750	Anti-magnetic shield plate A		
4259 751	Anti-magnetic shield plate B		
4450 753	Switch lever		
4455 750	Reset lever		
011 405	Lower hole jewel for fifth wheel		
011 405	Upper hole jewel for fifth wheel		
011 537	Lower hole jewel for step rotor		
011 537	Upper hole jewel for step rotor		
023 076	Pin for anti-magnetic shield plate	11	

^{☆ ⇒}Please see remarks on the reverse page. Part numbers in light letters are not shown in photos.

Cal. 7559A

Remarks:

Date dial

If any other type of date dial is required, specify ① Cal. No. ② The crown position ③ The calendar frame position and ④ Dial No.

Day star with dial disk

Bulb terminal insulator

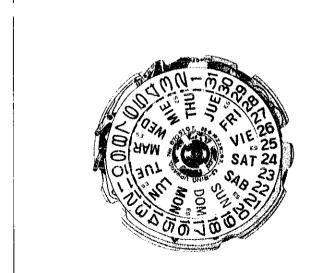
Battery

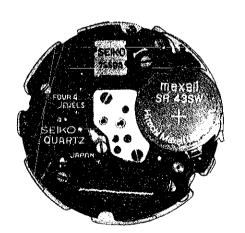
↑ Maxell SR43SW The applied battery for this calibre might be added the substitutive in the future. In that case, please refer to separate "BATTERIES FOR SEIKO QUARTZ WATCHES".

TECHNICAL GUIDE



CAL. 7559A





CONTENTS

1.	SPECIFICATIONS
Н.	HOW TO USE THE LIGHT1
Ш.	DISASSEMBLING AND REASSEMBLING OF THE ILLUMINATING LIGHT2
IV.	CHECKING AND ADJUSTMENT4

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I. SPECIFICATIONS

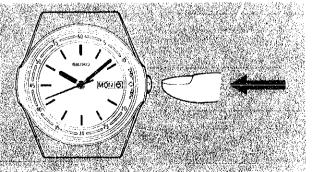
The SEIKO Quartz Cal. 7559A based on all the advanced mechanism of Cal. 75 Series watches is provided with an illuminating light which illuminates the dial in the dark. The after-sale servicing procedures are almost the same as those of Cal. 7546A watches except some parts. Refer to the "Technical Guide" of Cal. 7546A watches.

1. Specifications (Compared with Cal. 7546A)

Item Cal. No. Time indication		7559A	7546A	
		Three hand time indication (Hour, minute and second)		
anism	Date	0	0	
	Day of the week	0	0	
	Bilingual changeover sys- tem for the day of the week	0	0	
mech	Instant day and date setting	0	0	
Additional mechanism	Electronic circuit reset switch	0	0	
Additi	Second setting device (Stops at every second)	0	0	
	Battery life indicator	0	0	
	illuminating light	0		
Crystal oscillator		32,768 Hz (Hz = Hertz	Cycles per second)	
Loss/gain		Loss/gain at normal temperature range Monthly rate: less than 15 seconds (Annual rate: less than 3 minutes)		
Movement size		ϕ 27.4 mm (with battery)		
Casing diameter		φ27.0 mm		
Height		4,6 mm (without battery)		
Operational temperature range		Time indication: $-10^{\circ}\text{C} \sim +60^{\circ}\text{C} (14^{\circ}\text{F} \sim 140^{\circ}\text{F})$ Light is activated: $0^{\circ}\text{C} \sim +60^{\circ}\text{C} (32^{\circ}\text{F} \sim 140^{\circ}\text{F})$		
Driv	ring system	Step motor system (2 poles)		
Regulation system		Trimmer condenser		
Battery power		Silver oxide battery (U.C.C.301 or Maxell SR 43SW) Battery life is approximately 5 years. Voltage: 1.55V		
Jewels		4 jewels		

II. HOW TO USE THE LIGHT (As for other crown operation, follow the same procedures as in Cal. 7546A.)

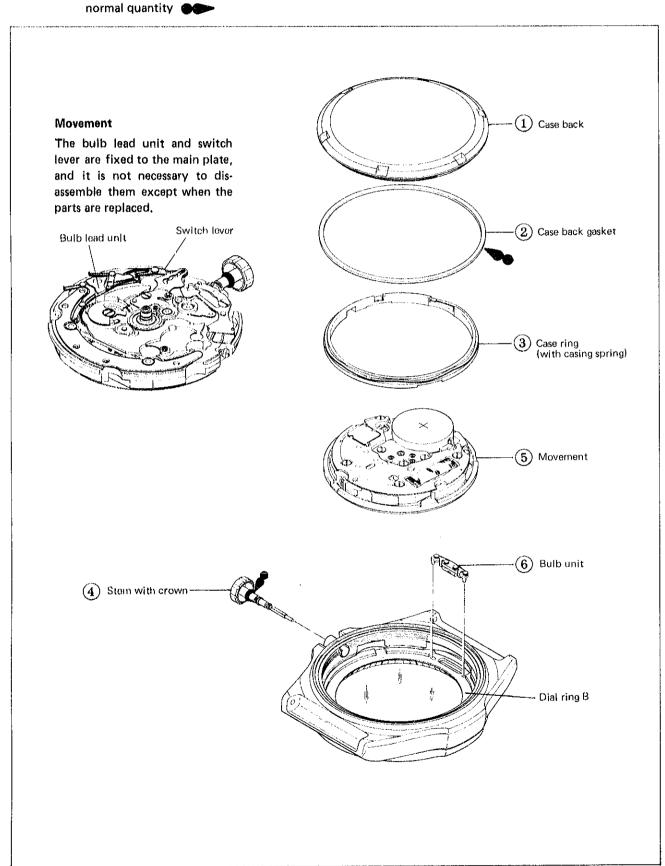
Depress the crown at the normal position and the light is activated while it is depressed.



1

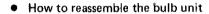
III. DISASSEMBLING AND REASSEMBLING OF THE ILLUMINATING LIGHT

Disassembling procedures: ① → ⑥
Reassembling procedures: ⑥ → ①
Lubricating: Silicone grease (500,000 c.s.),



HOW TO REPLACE THE BULB UNIT

- · How to remove the bulb unit
- 1) Remove the movement from the caseband.
 - The bulb unit is assembled to the caseband.
- 2) Pry up the bulb unit with a screwdriver as shown in the illustration.
 - Pry up the pin portions of the two sides slowly to remove.



Put the bulb unit pins in the holes of the dial ring "B" and push the bulb unit with tweezers.

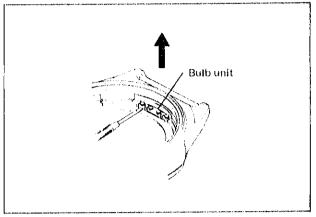
HOW TO REPLACE THE BULB LEAD UNIT

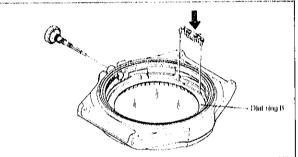
(It is not necessary to disassemble the bulb lead unit except when the parts are replaced.)

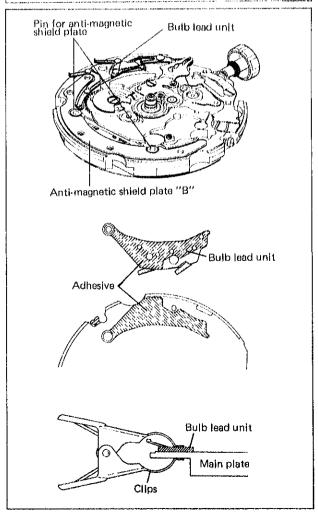
- How to disassemble the bulb lead unit
 - 1) Place the movement on the staking tool, pull out the pins shown in the illustration, and remove the anti-magnetic shield plate "B".
- 2) Put the tip of a screwdriver between the bulb lead unit and the main plate, and pry up the bulb lead unit to remove it.
- How to stick the bulb lead unit
 - Apply adhesive on both the bulb lead unit and the main plate, and put the bulb lead unit on the main plate.

(Use the adhesive S-310.)

- Be careful that the adhesive S-310 does not come out and be sure that the bulb lead unit sticks tightly.
- After the bulb lead unit is stuck on the main plate, hold them together with clips as shown in the illustration.
- 2) Set the anti-magnetic shield plate "B".







IV. CHECKING AND ADJUSTMENT

Checking and adjusting procedures when the light is not lit or dim. (As for the checking and adjustment of other parts, follow the same procedures as in Cal. 7546A.)

When the light is not lit or dim, follow the checking and adjusting procedures below (1) - (5).

Procedure	Result and Repair
(1) Check battery voltage. (Refer to the procedures for "Checking and adjustment" of Technical Guide Cal. 7546A watches.)	More than 1.5 V: Normal Proceed to (2). Less than 1.5 V: Defective Proceed to Replace the Battery .
 (2) Check for a broken filament or a soldered portion. 1 Set up the Volt-ohm-meter. Range to be used: OHMS R x 1 2 Apply the probes of the Volt-ohm-meter to the bulb terminals. Note: Either red or black probe will do. 	Light is lit: Normal Proceed to (3). Light is not lit: Defective Proceed to Replace the Bulb Unit See page 3.
(3) Check the height of the bulb lead terminal. Check to see if the bulb lead terminal is little higher than the lower surface of the dial, and that it does not touch the lower surface of the dial. Dial Tip of bulb lead terminal Lower surface of the dial Holding ring for dial	It is little higher than the lower surface of the dial and does not touch it: Normal Proceed to (4). It is lower than the lower surface of the dial and it touches the dial: Defective Correct it with tweezers.

