

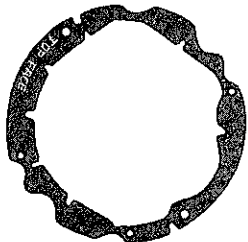
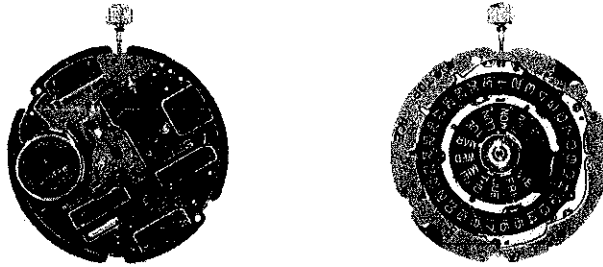
**SEIKO**

**QUARTZ**

**Cal. 7A38A**

**PARTS  
CATALOGUE**

# Cal. 7A38A



105 726



125 725



190 725



190 726



190 727



195 725



221 726



231 725



240 726



241 725



261 725



271 727



281 725



282 728



353 725



☆354 728



383 725



384 725



388 725



☆470 678



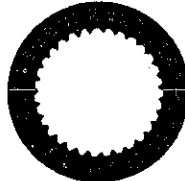
701 725



737 726



766 725



☆801 593



☆808 725



810 726



867 725



885 725



885 726



885 727



888 732



888 731



888 733



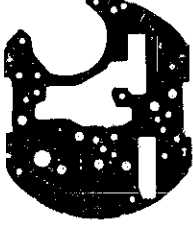
962 726



962 727



963 725



4001 726



4002 725



4002 726



4146 725



4146 727



4239 725



4239 726



4239 727



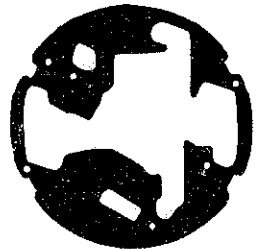
4259 725



4270 725



4271 731



4408 710



4408 711



4450 725



4450 727



4450 855



☆Maxell SR936SW

022 235	022 286
022 341	022 424
022 745	3/1

# Cal. 7A38A

## Characteristics

Casing diameter :  $\phi$  29.0 mm  
 Maximum height : 4.6 mm  
 Jewels : 15 j  
 Frequency of quartz crystal oscillator : 32,768 Hz (Hz=Hertz . . . . Cycles per second)  
 Driving system : Step motor (2 poles)  
 Regulation system : Rotary step switch  
 Chronograph  
 Chronograph test system  
 Calendar (day and date)  
 Instant setting device for day and date calendar  
 Train wheel setting  
 Battery life indicator

PART NO.	PART NAME	PART NO.	PART NAME
105 726	Dial seat	4146 725	Step rotor C (for minute)
125 725	Train wheel bridge	4146 725	Step rotor D (for 5/100 second)
190 725	Chronograph second bridge	4146 727	Step rotor B (for second)
190 726	Chronograph minute bridge	4239 725	Rotor stator A (for time)
190 727	Chronograph 5/100 second bridge	4239 726	Rotor stator C (for chronograph minute)
195 725	Calendar plate	4239 726	Rotor stator D (for chronograph 5/100 second)
221 726	Center wheel & pinion	4239 727	Rotor stator B (for chronograph second)
231 725	Third wheel & pinion	4259 725	Anti-magnetic shield plate
240 726	Small second wheel	4270 725	Battery connection (-)
241 725	Fourth wheel & pinion	4271 731	Battery connection (+)
261 725	Minute wheel	4408 710	Circuit block spacer
271 727	Hour wheel	4408 711	Setting wheel spacer
281 725	Setting wheel	4450 725	Change-over switch lever
282 728	Clutch wheel	4450 727	Switch lever
353 725	Friction spring for second counting wheel	4450 855	Rotary step switch
☆354 728	Winding stem	022 235	Dial screw
383 725	Setting lever	022 286	Anti-magnetic shield plate screw
384 725	Yoke	022 286	Battery connection (+) screw
388 725	Setting lever spring	022 341	Chronograph second bridge screw
☆470 678	Day star with dial disk	022 424	Train wheel bridge screw
701 725	Fifth wheel & pinion	022 424	Chronograph minute bridge screw
737 726	Date corrector setting wheel	022 424	Chronograph 5/100 second bridge screw
766 725	Intermediate minute wheel	022 424	Coil block screw
☆801 593	Date dial	022 424	Setting lever spring screw
☆808 725	Date dial guard	022 745	Date dial guard screw
810 726	Date jumper	011 151	Lower hole jewel for 5/100 second counting wheel
867 725	Day and date driving wheel	011 306	Upper hole jewel for second counting wheel
885 725	Second-counting intermediate wheel	011 306	Upper hole jewel for 5/100 second counting wheel
885 726	Minute-counting intermediate wheel	011 542	Upper hole jewel for fifth wheel
885 727	5/100 second-counting intermediate wheel	011 542	Upper hole jewel for 5/100 second-counting intermediate wheel
888 732	Second-counting wheel	011 542	Lower hole jewel for 5/100 second-counting intermediate wheel
888 731	Minute counting wheel	011 552	Lower hole jewel for step rotor
888 733	5/100 second counting wheel	011 552	Lower hole jewel for step rotor (chronograph minute)
962 726	Intermediate wheel for calendar correction	011 552	Lower hole jewel for step rotor (chronograph second)
962 727	Additional intermediate wheel for calendar correction	011 552	Lower hole jewel for step rotor (chronograph 5/100 second)
963 725	Snap for day star with dial disk		
4001 726	Circuit block		
4002 725	Coil block A (for time indication)		
4002 725	Coil block B (for chronograph second)		
4002 726	Coil block C (for chronograph minute)		
4002 726	Coil block D (for chronograph 5/100 second)		
4146 725	Step rotor A (for time)		

☆ ⇨ Please see remarks on the reverse page.  
 Part numbers in light letters are not shown in photos.

# Cal. 7A38A

PART NO.	PART NAME	PART NO.	PART NAME
011 568	Upper hole jewel for rotor stator	027 172	Tube for coil block screw
011 568	Upper hole jewel for rotor stator (chronograph minute)	☆027 141	Tube for anti-magnetic shield plate screw (A)
011 568	Upper hole jewel for rotor stator (chronograph second)	027 141	Tube for battery connection (+) screw (A)
011 568	Upper hole jewel for rotor stator (chronograph 5/100 second)	☆027 143	Tube for anti-magnetic shield plate screw (B)
011 739	Upper hole jewel for center minute wheel	027 143	Tube for battery connection (+) screw (B)
023 337	Tube for setting lever spring screw	☆027 144	Tube for anti-magnetic shield plate screw (C)
023 351	Guide tube for setting lever spring screw	027 171	Tube for chronograph second bridge
027 138	Tube for train wheel bridge	027 758	Setting lever pin
027 138	Tube for chronograph minute bridge	027 768	Switch lever axle
027 138	Tube for chronograph 5/100 second bridge	027 760	Switch lever pin
027 139	Tube for yoke screw	027 761	Switch pin
		☆Maxell SR936SW	Silver oxide battery

## Remarks :

### Winding stem

- ☆354 728 ..... Refer to the photograph on the front page.  
If the combination of the winding stem and case is unknown, check the case number and refer to "SEIKO Quartz Casing Parts Catalogue" to choose a corresponding winding stem.

### Day star with dial disk

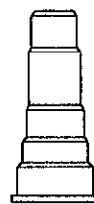
- ☆470 678 (Black figures on white background) } ..... Used when the crown is located at **8** o'clock position  
☆470 679 (White figures on black background) } ..... and the calendar frame is at **3** o'clock position.  
If any other type of day star with dial disk is required, specify the number printed on the disk.

### Date dial

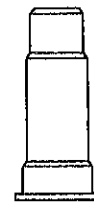
- ☆801 593 (Black figures on white background) } ..... Used when the crown is located at **8** o'clock position  
☆801 594 (White figures on black background) } ..... and the calendar frame is at **3** o'clock position.  
If any other type of date dial is required, specify ① Cal. No. ② The crown position  
③ The calendar frame position and ④ Dial No.

### Tube for anti-magnetic shield plate (A), (B), (C)

- ☆027 141 }  
☆027 143 } ..... Refer to the illustration on the right.  
☆027 144 }



☆027 141



☆027 143



☆027 144

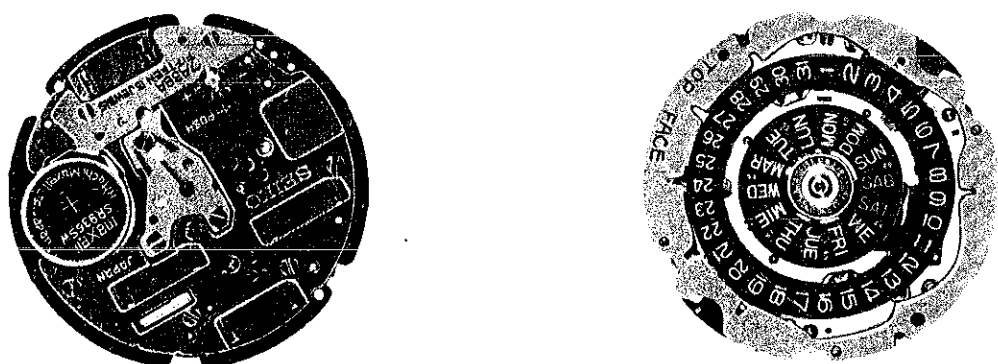
### Battery

- ☆Maxell SR936SW ..... The substitutive battery might be added to the applied battery in the future.  
In that case please refer to separate "BATTERY LIST FOR SEIKO QUARTZ WATCHES".

# TECHNICAL GUIDE

**SEIKO**  
QUARTZ

CAL. 7A38A



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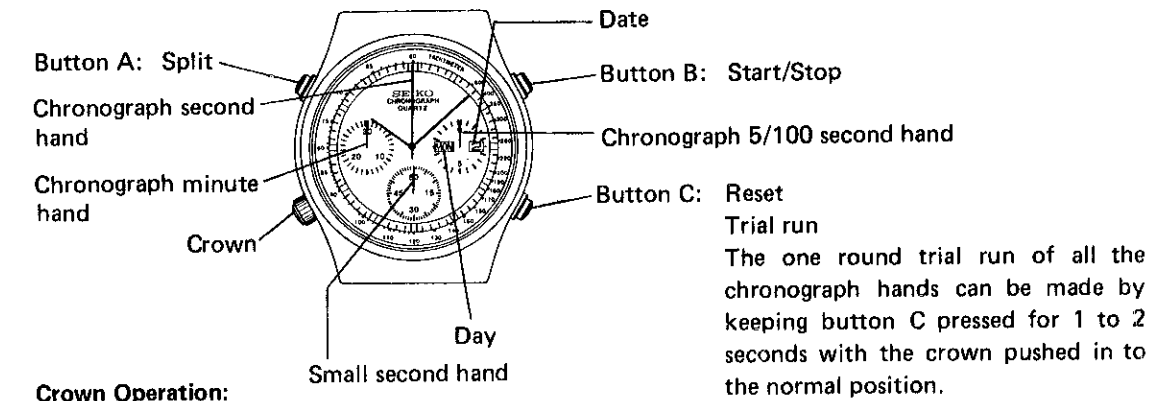
I. SPECIFICATIONS .....	1
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## I. SPECIFICATIONS

		Cal. No.	7A38A
Item			
Time indication		Hour, minute and small second hands	
Stopwatch function		Minute, second, and 5/100 second	
Additional mechanism		<ul style="list-style-type: none"> <li>• Calendar function (day and date)</li> <li>• Electronic circuit reset switch</li> <li>• Train wheel setting device</li> <li>• Battery life indicator</li> <li>• Chronograph hands trial run function</li> <li>• Chronograph hands resetting function</li> <li>• Counter function</li> </ul>	
Loss/gain		Monthly rate at normal temperature range: less than 15 seconds	
Movement size	Outside diameter	φ31.1 mm	
	Casing diameter	φ29.0 mm	
	Height	4.4 mm without battery	
Regulation system		Rotary step switch (1 step = 0.26 sec./day)	
Measuring gate by quartz tester		Use the 10-second gate.	
Battery		Maxell SR936SW, U.C.C. 394 Battery life is approximately 2 years. Voltage: 1.55V	
Jewels		15 jewels	

## II. DESIGNATION AND OPERATION

### 1. Names of the parts and their functions



#### Crown Operation:

Normal position: Free

1st click:

- Day and date setting

Day setting: Turn the crown clockwise.

Date setting: Turn the crown counterclockwise.

Be careful not to press any buttons at this time, as that will move the respective hands.

- Counter

The chronograph hands can be used as counter scales by each push of button A, B, or C.

- Chronograph hands resetting

To reset the chronograph hands, press the respective buttons until they reach their reset position.

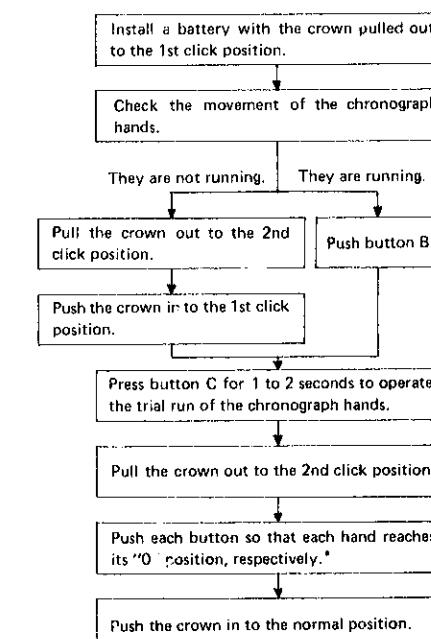
- Remaining time measurement

Have the hands start from the desired positions by pressing button B, and the remaining time to "0" can be seen.

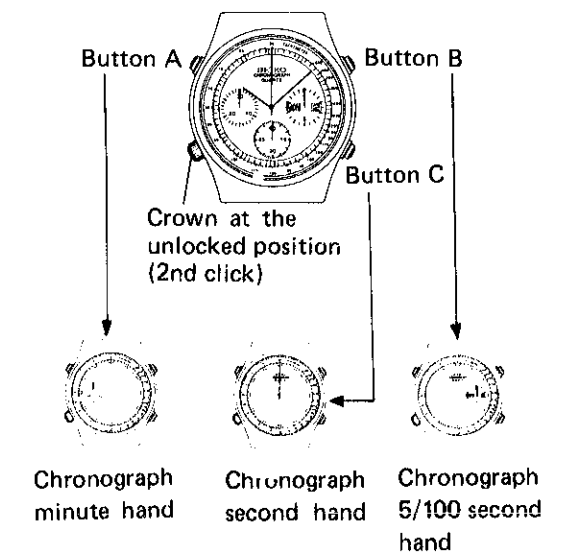
2nd click: Time setting

By turning the crown clockwise or counterclockwise, the hour and minute hands can be turned back or advanced respectively.

### 2. When the chronograph hands are not reset, follow the chart below.



#### \* Hand control by button



The chronograph hands are advanced quickly by keeping their respective buttons pressed for 1 to 2 seconds.

### III. LIST OF THE SCREWS USED

Shape	Part No.	Name	Shape	Part No.	Name	
	022 424	Train wheel bridge screw (2 pcs.)		022 341	Chronograph second bridgescrew (3 pcs.)	
		Chronograph minute bridgescrew (1 pc.)			022 286	Antimagnetic shield plate screw (5 pcs.)
		Chronograph 5/100 second bridge screw (1 pc.)				Battery connection (+) screw (2 pcs.)
		Coil block screw (4 pcs.)				
Setting lever spring screw (1 pc.)						
	022 745	Date dial guard screw (3 pcs.)		022 235	Dial screw (2 pcs.)	

### IV. DISASSEMBLING, REASSEMBLING, AND LUBRICATING

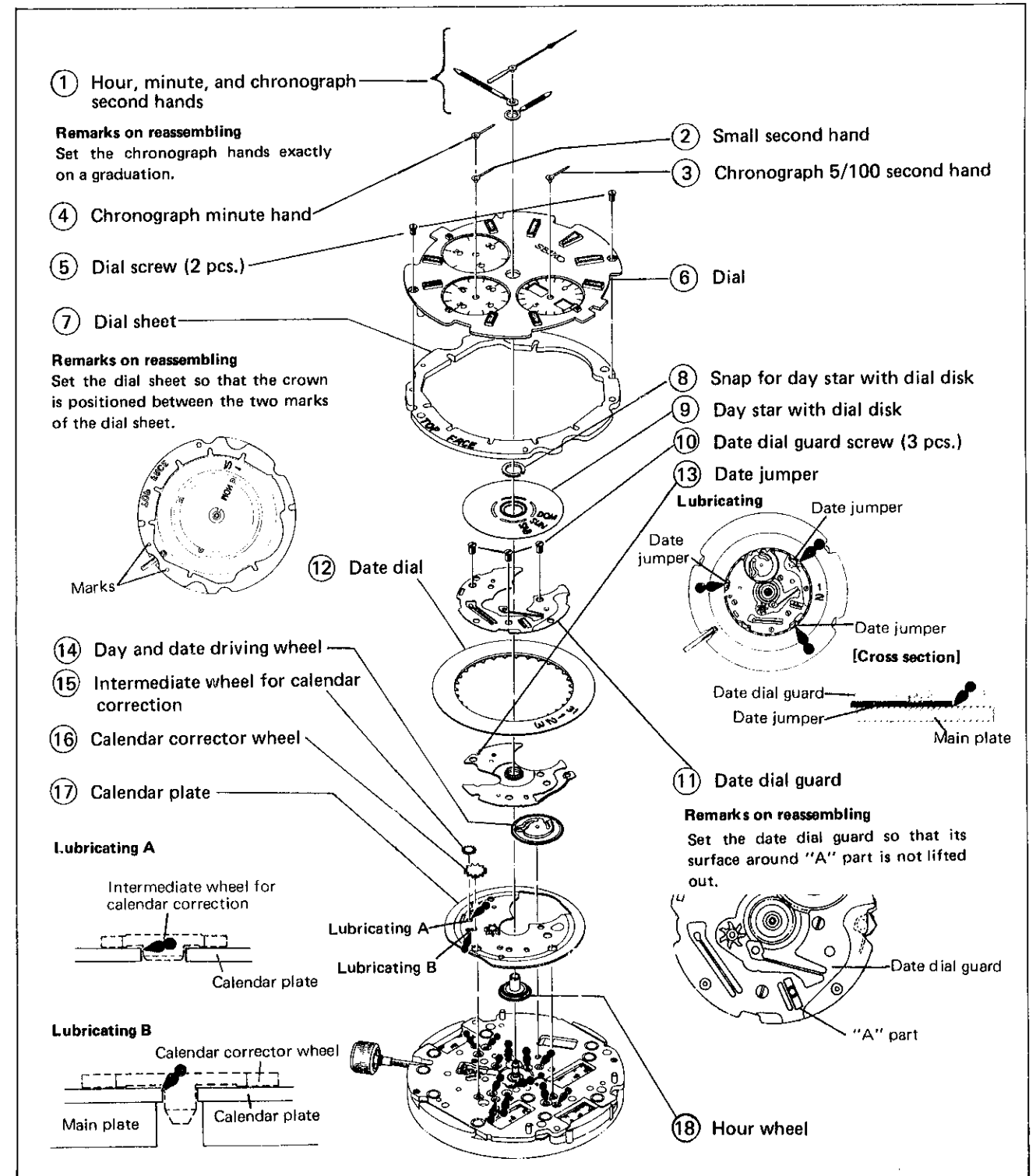
Disassembling procedures Figs.: ① → ⑦②

Reassembling procedures Figs.: ⑦② → ①

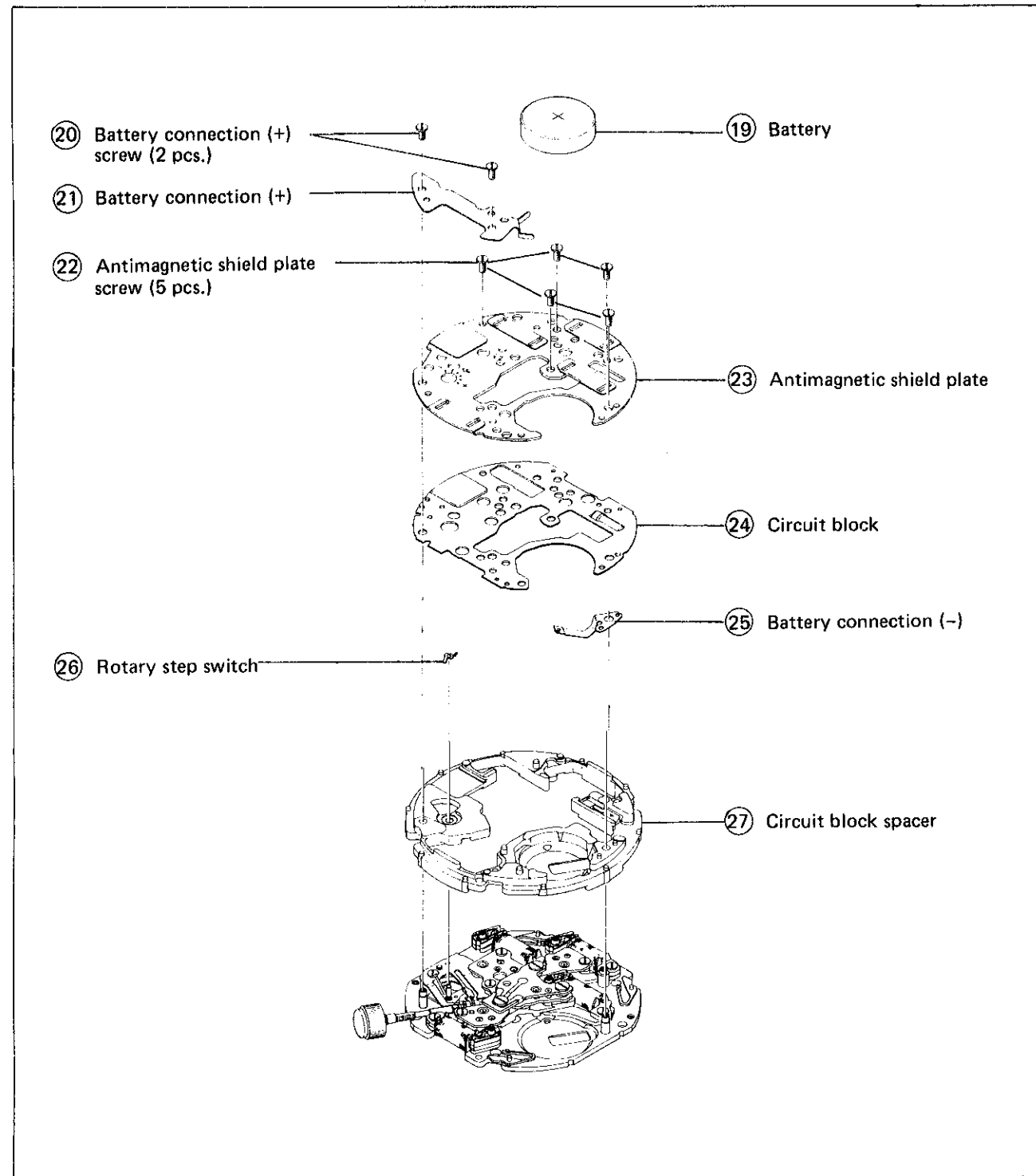
Lubricating: ● Moebius A

○ SEIKO Watch Oil S-6

#### 1. Hands ~ Hour wheel

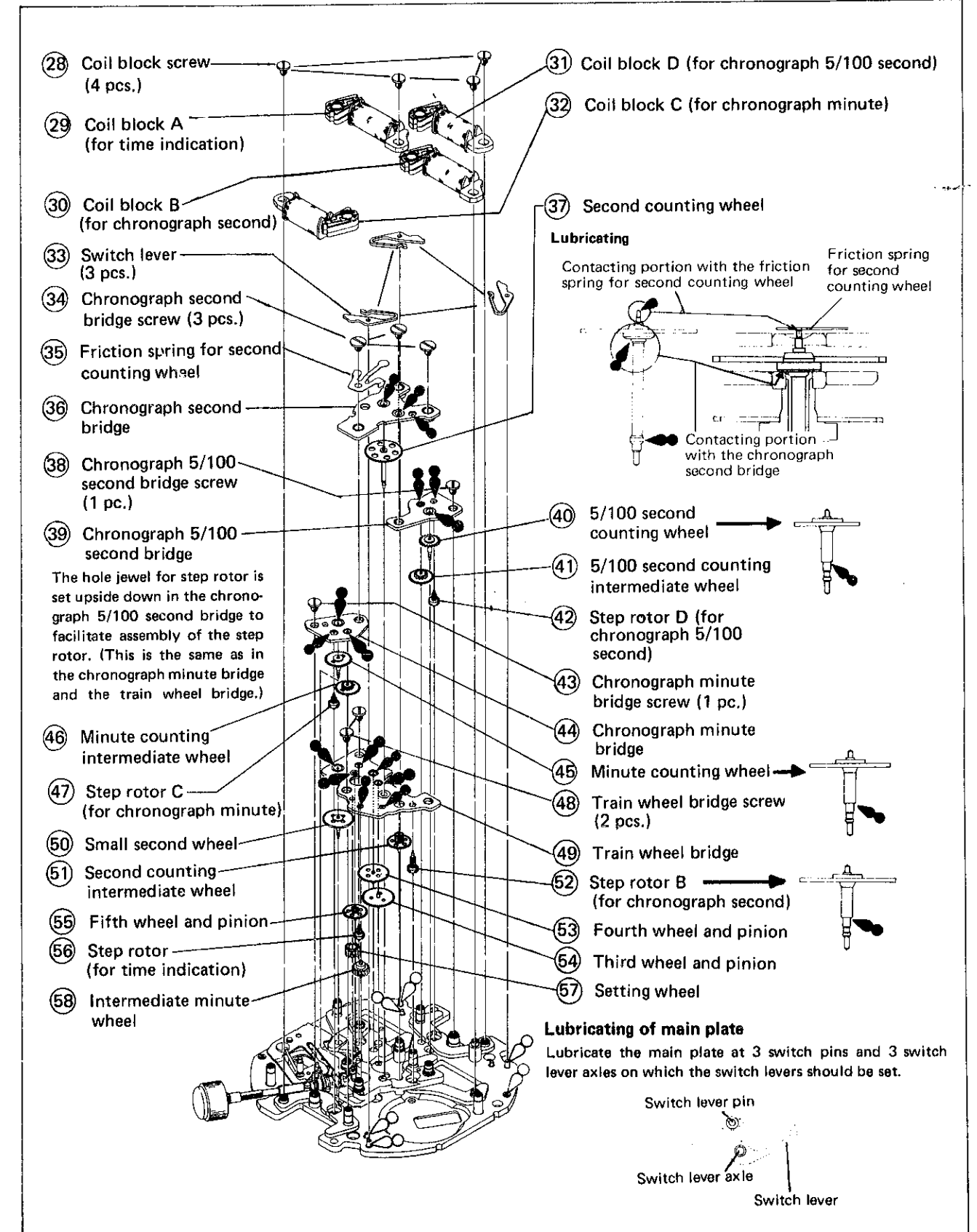


## 2. Battery ~ Circuit block spacer



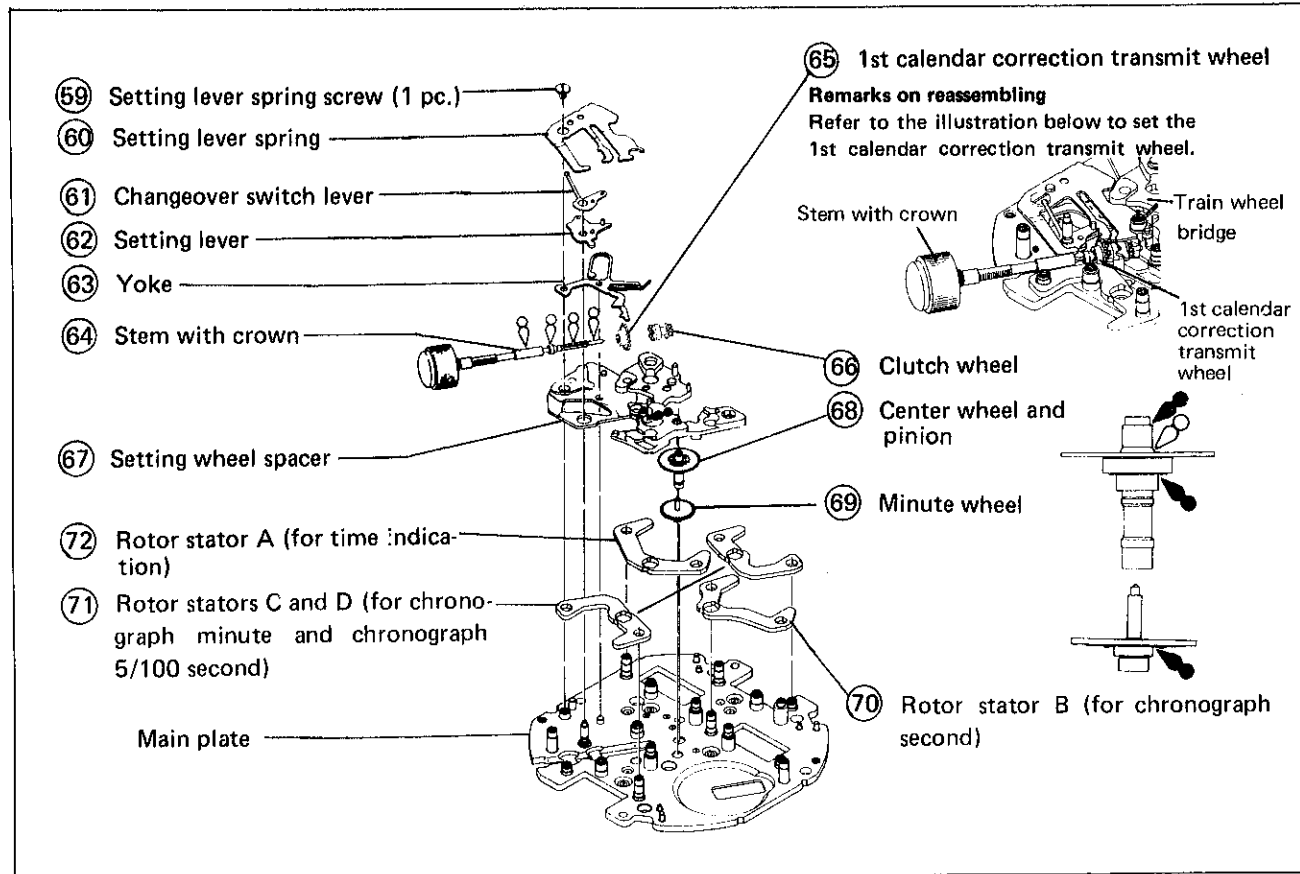
## 3. Coil block screw ~ Intermediate minute wheel

There are many kinds of bridges, wheels and pinions, step rotors, and coil blocks. Be sure not to set wrong ones by mistake, referring to the chart on page 7 for identifying them. The setting position of the gear train is shown on page 7.





4. Setting lever spring screw ~ Rotor stator A



● Setting position of the gear train

