

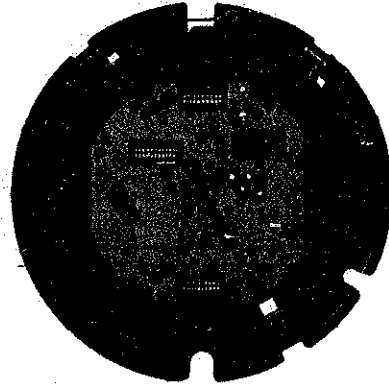
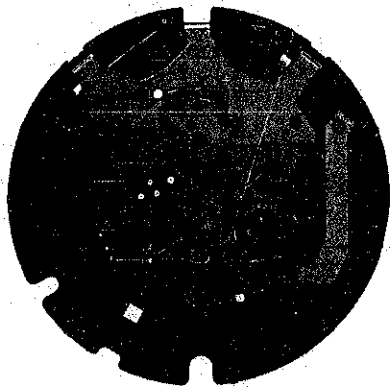
SEIKO

QUARTZ

Cal. 7A07A

**PARTS
CATALOGUE**

Cal. 7A07A



125 726



190 725



190 726



190 727



353 725



354 727



383 725



388 726



428 725



885 725



885 726



885 727



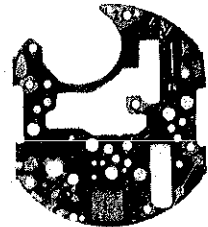
888 728



888 729



888 730



4001 726



4002 725



4002 726



4146 725



4146 727



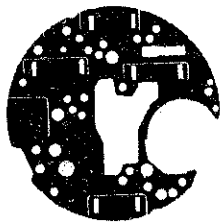
4239 726



4239 727



4245 725



4259 725



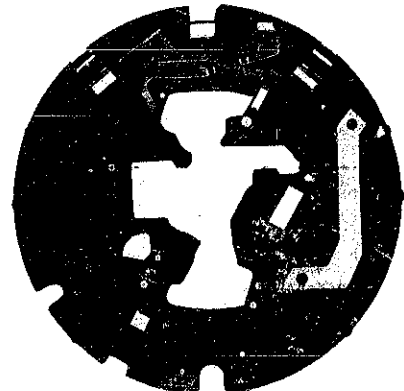
4270 725



4271 727



4408 726



4408 728



4450 725



4450 855



☆ Maxell SR936SW



022 286



022 341



022 424



022 429

3/1

Cal. 7A07A

Characteristics

Casing diameter : ϕ 50 mm
 Maximum height : 3.6 mm without battery
 Jewels : 12 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
 Train wheel setting
 Stopwatch and stopwatch hands trial run function
 Counter function
 Remaining time measuring function
 Battery life indicator

PART NO.	PART NAME	PART NO.	PART NAME
125 726	Train wheel bridge	011 542	Upper hole jewel for 5/100 second counting intermediate wheel
190 725	Chronograph second bridge	011 552	Lower hole jewel for step rotor
190 726	Chronograph minute bridge	011 552	Lower hole jewel for step rotor (Chronograph minute)
190 727	Chronograph 5/100 second bridge	011 552	Lower hole jewel for step rotor (Chronograph second)
353 725	Friction spring for sweep second pinion	011 568	Upper hole jewel for rotor stator
354 727	Winding stem	011 568	Upper hole jewel for rotor stator (Chronograph minute)
383 725	Setting lever	011 568	Upper hole jewel for rotor stator (Chronograph 5/100 second)
388 726	Setting lever spring	011 739	Lower hole jewel for second counting wheel
428 725	Center pipe	022 286	Anti-magnetic shield plate screw
885 725	Second counting intermediate wheel	022 286	Battery connection (+) screw
885 726	Minute-counting intermediate wheel	022 286	Switch spring screw
885 727	5/100 second-counting intermediate wheel	022 341	Train wheel bridge screw
888 728	Minute counting wheel	022 424	Train wheel bridge screw
888 729	Small second wheel	022 424	Chronograph minute bridge screw
888 730	5/100 second counting wheel	022 424	Chronograph 5/100 second bridge screw
4001 726	Circuit block	022 424	Coil block screw
4002 725	Coil block A (for chronograph second)	022 424	Setting lever spring screw
4002 726	Coil block B (for chronograph minute)	022 429	Dial screw
4002 726	Coil block C (for chronograph 5/100 second)	023 351	Guide tube for setting lever spring
4146 725	Step rotor B (for minute)	027 138	Tube for train wheel bridge
4146 725	Step rotor C (for 5/100 second)	027 138	Tube for chronograph minute bridge
4146 727	Step rotor A (for chronograph second)	027 138	Tube for chronograph 5/100 second bridge
4239 726	Rotor stator B (for chronograph minute)	027 139	Tube for setting lever spring screw
4239 726	Rotor stator C (for chronograph 5/100 second)	027 140	Tube for coil block screw
4239 727	Rotor stator A (for chronograph second)	☆027 141	Tube for anti-magnetic shield plate screw (A)
4245 725	Switch spring	027 141	Tube for battery connection (+) screw (A)
4259 725	Anti-magnetic shield plate	027 141	Tube for switch spring screw (A)
4270 725	Battery connection (-)	☆027 143	Tube for anti-magnetic shield plate screw (B)
4271 727	Battery connection (+)	027 143	Tube for battery connection (+) screw (B)
4408 726	Spacer for setting lever spring	027 144	Tube for switch spring screw (B)
4408 728	Circuit block spacer	027 146	Tube for train wheel bridge
4450 725	Change-over switch lever	027 758	Setting lever pin
4450 855	Rotary step switch lever	☆Maxell SR93&SW	Silver oxide battery
011 151	Lower hole jewel for 5/100 second counting wheel	☆U.C.C.394	
011 306	Upper hole jewel for second counting wheel		
011 306	Upper hole jewel for 5/100 second counting wheel		
011 542	Lower hole jewel for 5/100 second counting intermediate wheel		

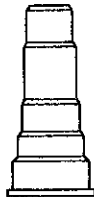
☆◇ Please see remarks on the reverse page.
 Part numbers in light letters are not shown in photos.

Cal. 7A07A

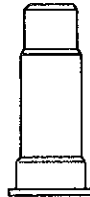
Remarks :

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

☆027 141 }Refer to the illustration below.
☆027 143 }



☆027 141



☆027 143

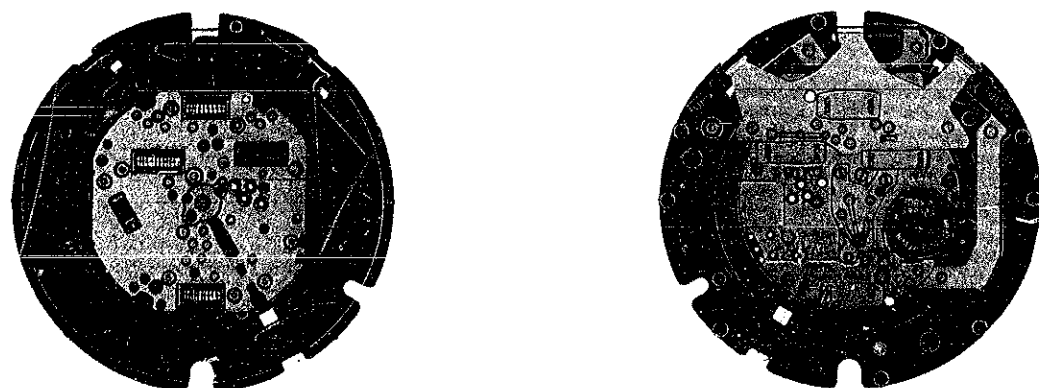
Battery

☆Maxell SR936SW }The substitutive battery might be added to the applied battery in the future.
☆U.C.C. 394 }In that case, please refer to separate "**BATTERY LIST FOR SEIKO QUARTZ WATCHES**"

TECHNICAL GUIDE

SEIKO
QUARTZ

CAL. 7A07A



CONTENTS

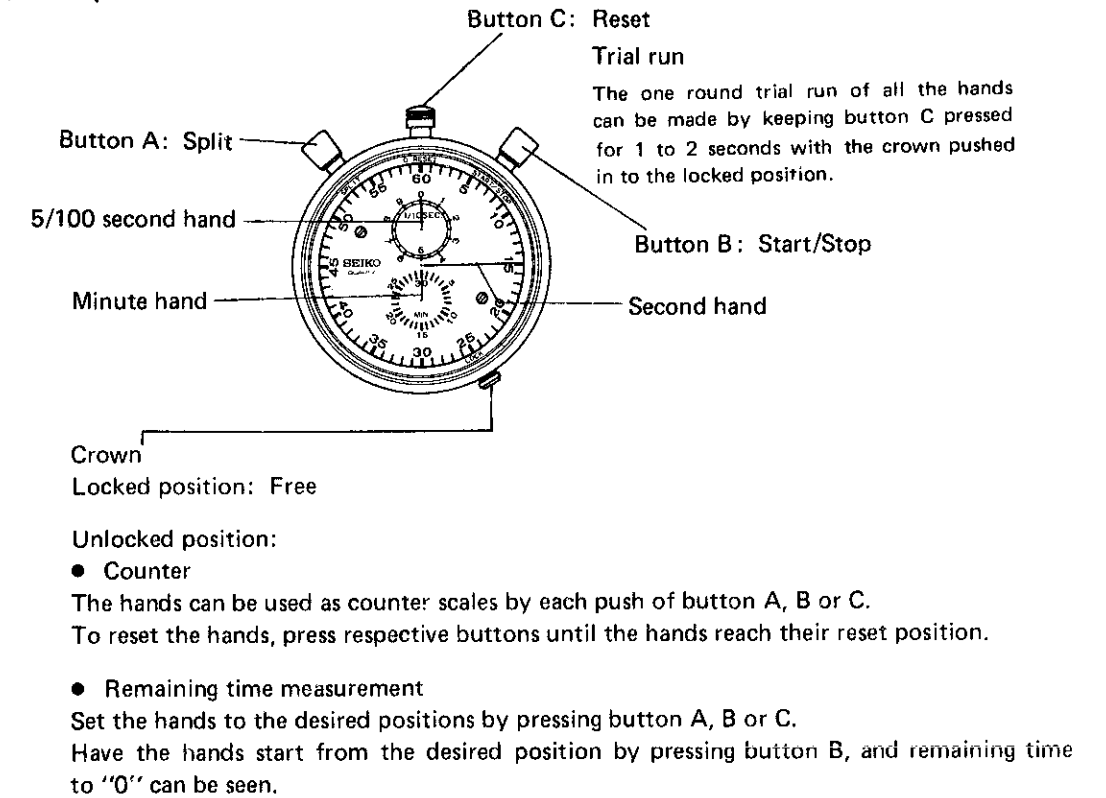
I. SPECIFICATIONS	1
II. DESIGNATION AND OPERATION	2
III. DISASSEMBLING, REASSEMBLING, AND LUBRICATING	3
1. Disassembling, reassembling, and lubricating of the case	3
2. Disassembling, reassembling, and lubricating of the movement	4
IV. CHECKING AND ADJUSTMENT	9

I. SPECIFICATIONS

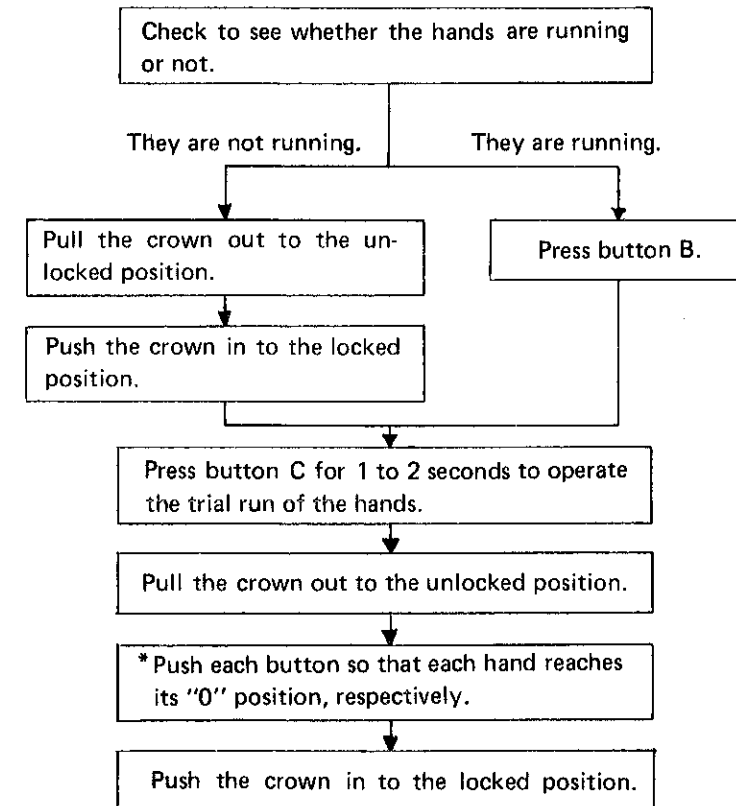
Cal. No.		7A07A
Item		
Chronograph indication	Chronograph minute, second, and 5/100 second hands	
Additional mechanism	<ul style="list-style-type: none"> ● Accumulated elapsed time measurement ● Split time measurement ● Trial run function ● Chronograph hands resetting function ● Counter function ● Remaining time measurement ● Battery life indicator (5/100 second hand makes a full turn for each two seconds.) 	
Loss/gain	Rate at normal temperature range: 99.9992% (equivalent to the monthly rate of less than 20 seconds)	
Movement size	Outside diameter	φ50 mm
	Height	3.6 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. (When the stopwatch is used 5 times a day each time for one hour.) Voltage: 1.55V	
Jewels	12 jewels	

II. DESIGNATION AND OPERATION

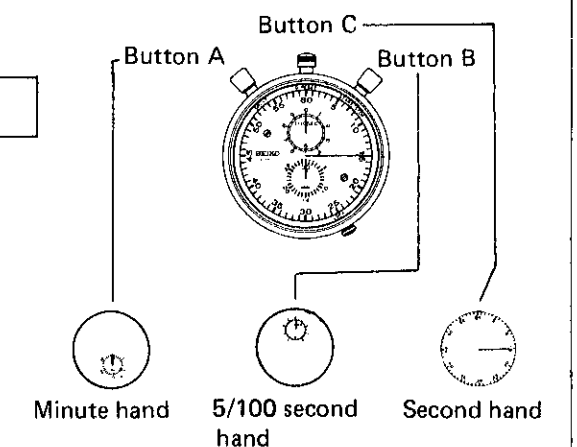
Names of the parts and their functions



When the hands are not reset to their "0" positions, follow the chart below.



* Hand control by buttons



The hands are advanced by one graduation with each push of their respective buttons, and they are advanced quickly by keeping their respective buttons pressed for 1 to 2 seconds.

III. DISASSEMBLING, REASSEMBLING, AND LUBRICATING

1. Disassembling, reassembling, and lubricating of the case

Disassembling procedures Figs.: ① → ⑦ Lubricating: ● Silicone grease 500,000 c.s.
 ○ SEIKO Watch Oil S-6
 ● Moebius A

Reassembling procedures Figs.: ⑦ → ①

① Case back
Remarks on reassembling
 If the case back is tight to be installed, use the SEIKO tightening tool S-220. In this case, use the supporting disk which does not touch the center of the glass as shown in the illustration below.

Inserting disk
 Case back
 Vinyl sheet
 Glass
 Supporting disk

② Case back gasket
Remarks on reassembling
 Place the case back gasket with its flat side down and set it into the groove which the case and the case ring combine to form.

Case back gasket
 Case ring
 Case

③ Case ring
Remarks on reassembling
 Set the case ring with its stepped side up so that the two protrusions of the circuit block spacer are set into the corresponding holes of the case ring.

④ Stem with crown
Remarks on disassembling
 With the crown pulled out completely, remove it while pushing the setting lever with tweezers.

Setting lever
 7A07R TWELVE 12 JE

⑤ Button A, B
Remarks on disassembling
 When removing the buttons, pull them out while lifting up the corresponding switch springs with tweezers.

Switch spring

⑥ Module

⑦ Middle

Bow
 Do not remove the bow except when it needs to be replaced.

Button spring
 Do not remove the button springs except when they need to be replaced. When reassembling the button springs, make sure to set them in position, as they are likely to come off.

Button C
 Do not remove the reset button except when it needs to be replaced.

Gasket

2. Disassembling, reassembling, and lubricating of the movement

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 bridge screw (3 pcs.)	
		Chronograph minute bridge screw (1 pc.)			022 286	Antimagnetic shield plate screw (3 pcs.)
		Chronograph 5/100 second bridge screw (1 pc.)				Battery connection (+) screw (2 pcs.)
		Coil block screw (3 pcs.)			Switch spring screw (2 pcs.)	
		Setting lever spring screw (1 pc.)		022 429	Dial screw (2 pcs.)	

Disassembling procedures Figs.: ① → ④⑧

Reassembling procedures Figs.: ④⑧ → ①

(1) Chronograph second hand ~ Dial

When operating the procedure ① ↔ ④, use the case ring illustrated on page 3 for supporting the module. It facilitates work.

① Chronograph 5/100 second, chronograph second, and chronograph minute hands
Remarks on reassembling
 Make sure to set the chronograph hands exactly on the graduation.

② Dial screw (2 pcs.)
Remarks on reassembling
 Tighten the dial screw securely to prevent it from loosening.

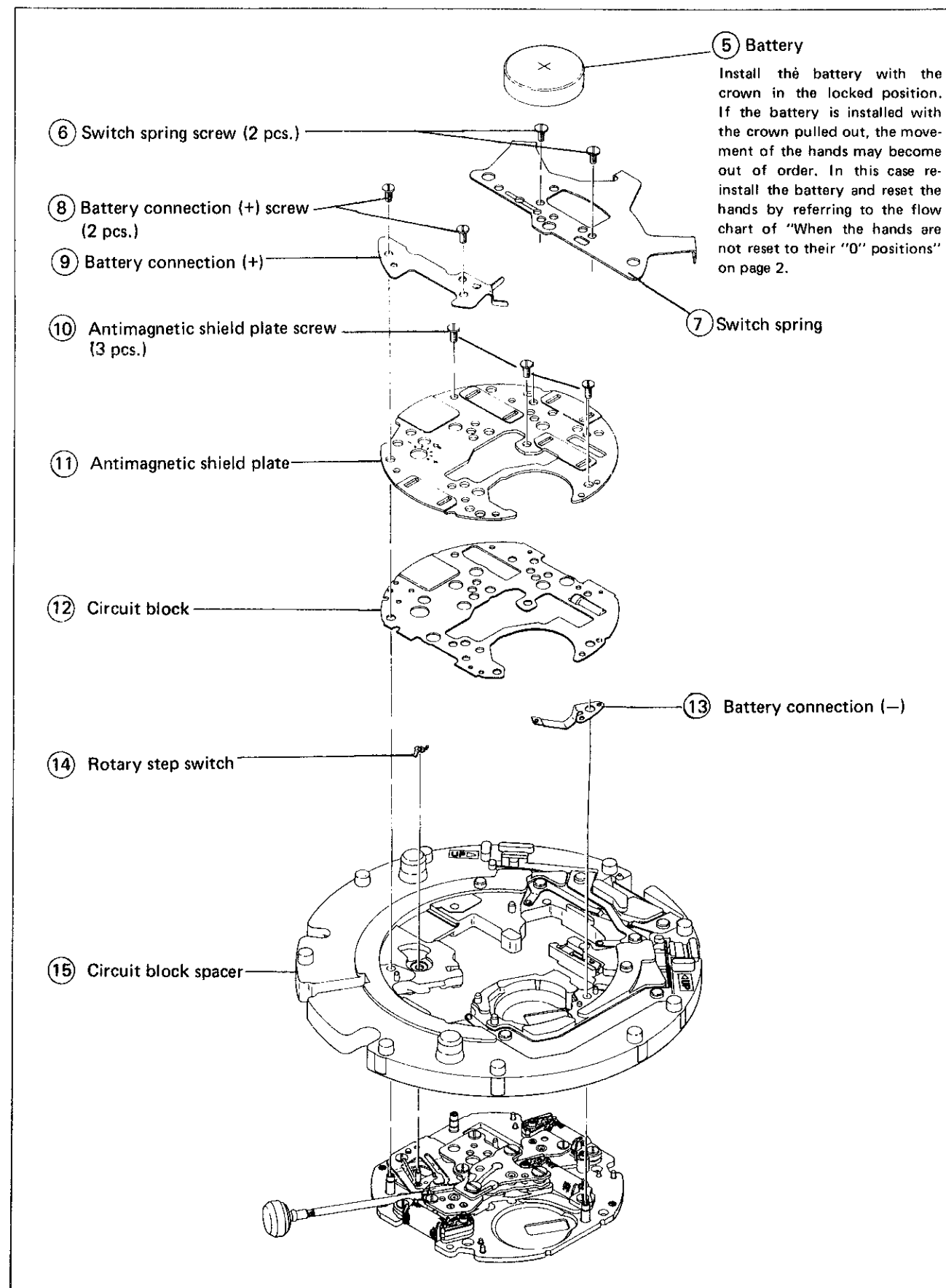
③ Dial
Remarks on reassembling
 Set the dial onto the module so that the notch (arrow marked) of the dial catches the protrusion on the circuit block spacer.

Ring
 Do not remove the ring from the dial.

④ Module

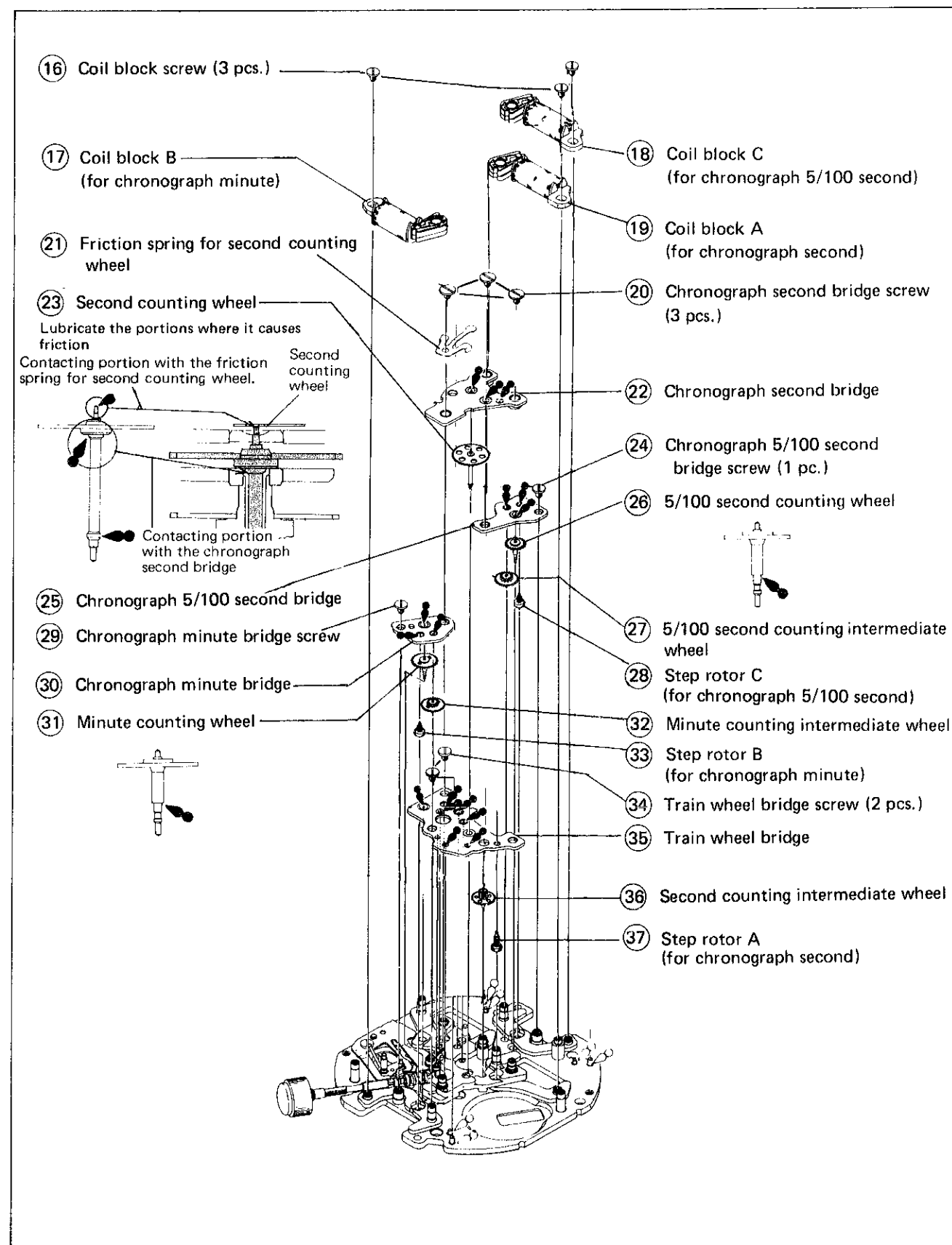
Protrusion of circuit block spacer

(2) Battery ~ Circuit block spacer

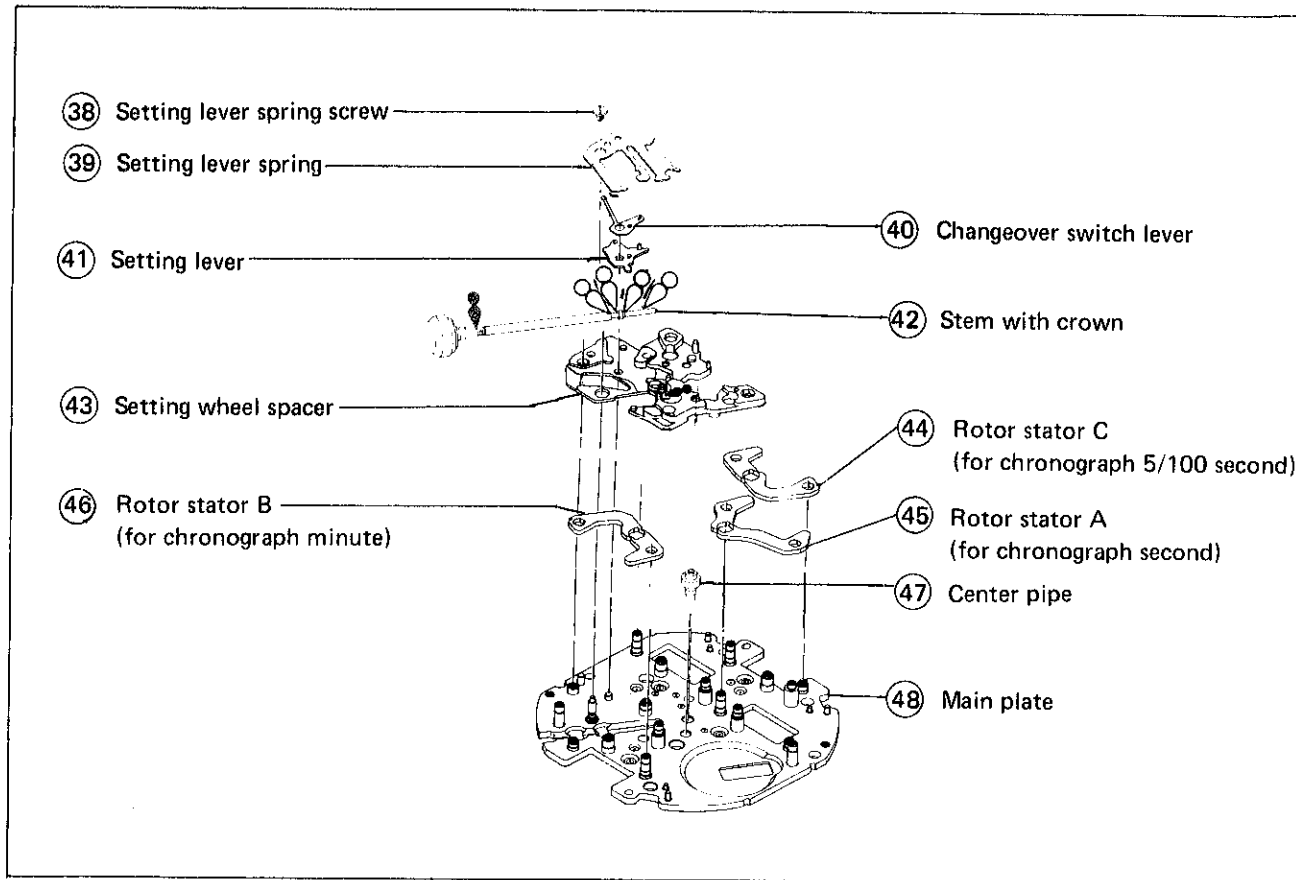


(3) Coil block screw ~ Step rotor A (for chronograph second)

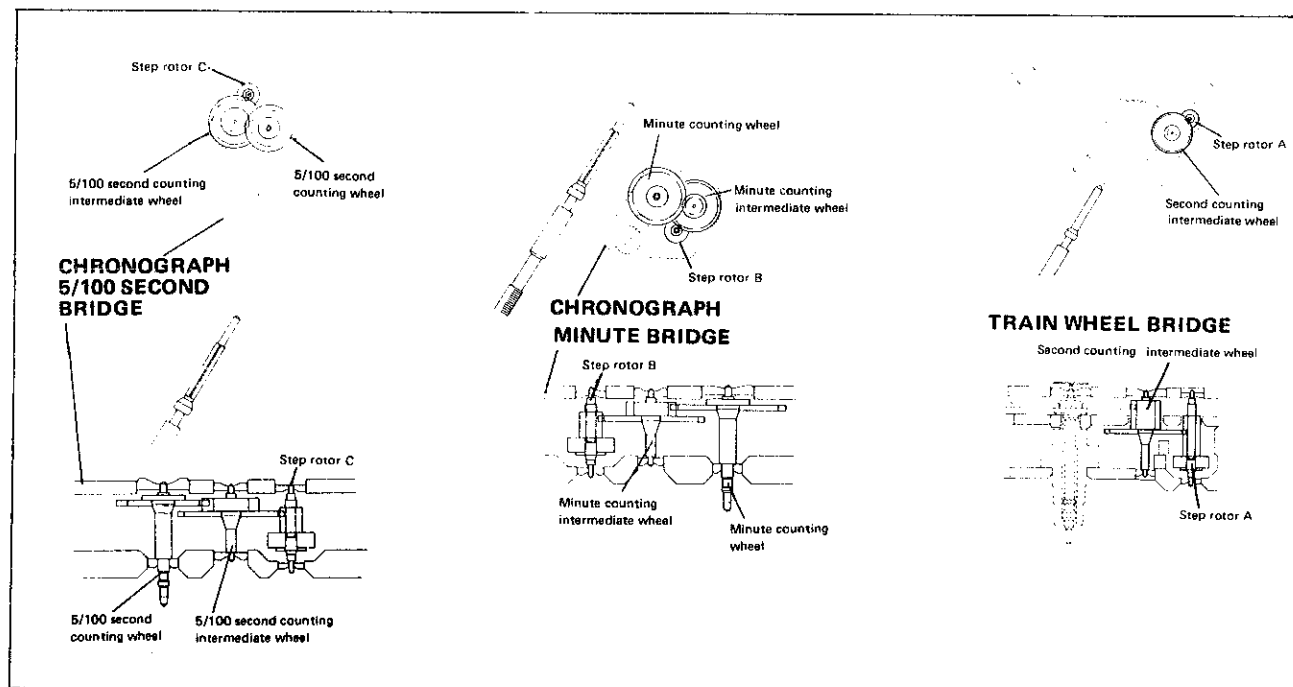
The setting position of the gear train is illustrated on page 7 and the identification chart for them is shown on page 8.



(4) Setting lever spring screw ~ Main plate



● Setting position of the gear train



● Chart of the parts of the gear train mechanism and the setting mechanism

	Chronograph second bridge	Chronograph 5/100 second bridge		Chronograph minute bridge		Train wheel bridge
Bridge						
Wheel & pinion	Second counting wheel 	Chronograph 5/100 second wheel 	5/100 second counting intermediate wheel 	Minute counting wheel 	Minute counting intermediate wheel 	Second counting intermediate wheel
Step rotor	—	Step rotor C (for chronograph 5/100 second) 		Step rotor B (for chronograph minute) ←		Step rotor A (for chronograph second)
Rotor stator & Coil block	—	Coil block C	Rotor stator C	Coil block B	Rotor stator B	Coil block A Rotor stator A
		 540mm		←		 620mm

IV. CHECKING AND ADJUSTMENT

- The explanation here is only for the particular points of Cal. 7A07A.
Refer to the "TECHNICAL GUIDE, SEIKO QUARTZ, Cal. 7A28A" and the "TECHNICAL GUIDE, GENERAL INSTRUCTION" for SEIKO Analogue Quartz for details.

Procedure

- **Remarks on replacing battery**

Be sure to install the battery with the crown in the locked position.

In case the movement of the hands become out of order, reinstall the battery and reset the hands by referring to the flow chart of "When the hands are not reset to their "0" positions" on page 2.

CHECK ACCURACY

- The rotary step switch regulates 0.26 sec./day/step.
- The range to be used of the quartz tester is 10-second gate.

CHECK CURRENT CONSUMPTION

Use the Digital Multi-Tester S-840.

Before checking current consumption, be sure to start the stopwatch by pressing button B.

Result:

When the stopwatch function is activated:

Normal : Less than 75 μ A

Defective : More than 75 μ A