

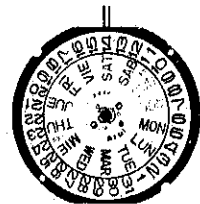
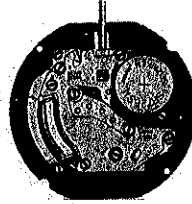
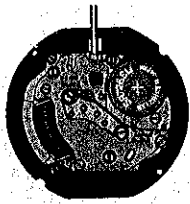
SEIKO

QUARTZ

(Cal. 8C22A)
(Cal. 8C23A)

**PARTS
CATALOGUE**

Cal. 8C22A, 8C23A



Cal. 8C22A

Cal. 8C23A



102 011



125 350



170 175



231 350



☆241 357



261 350



☆270 351



☆271 351



282 350



282 351



☆354 351



383 350



384 350



388 018



391 350



426 350



436 350



486 350



491 141



556 350



556 351



701 350



719 350



☆801 140



802 350



808 350



808 353



810 350



817 350



963 350



4000 350



4002 015



4146 350



4219 020



4219 021



4239 350



4270 006



4271 005



4398 169



4408 351



4457 019



4457 048



☆SEIKO SR726SW



012 005



012 006



012 007



012 008



012 015



012 170



032 001



032 002



032 004



032 005



032 006



032 007



032 008



032 045

3/1

Cal. 8C22A, 8C23A

Characteristics

	8C22A	8C23A
Casing diameter	24.5 × 23.0 mm	
Maximum height	3.6 mm	
Jewels	2 j	
Frequency of quartz crystal oscillator	32,768 Hz (Hz = Hertz Cycles per second)	
Driving system	Step motor (2 poles)	
Regulation system	Trimmer condenser	
Train wheel setting	○	
Calendar	Date	Day/Date
Instant setting device	Date	Day/Date
Bilingual change-over system	○	
Battery life indicator	○	

PART NO.	PART NAME	PART NO.	PART NAME
102 011	Auxiliary plate	4271 005	Battery connection (+)
125 350	Train wheel bridge	4398 169	Crystal oscillator spacer
170 175	Day star with dial disk (Cal. 8C23A)	4408 351	Circuit block spacer
231 350	Third wheel & pinion	4457 019	Circuit block cover (Cal. 8C22A)
☆241 352	Fourth wheel & pinion	4457 048	Circuit block cover (Cal. 8C23A)
☆241 353		011 334	Upper hole jewel for step rotor
☆241 357		011 334	Lower hole jewel for step rotor
261 350	Minute wheel	012 005	Train wheel bridge screw
☆270 351	Center minute wheel	012 005	Circuit block cover screw
☆270 352		012 005	Setting lever spring screw
☆270 353		012 006	Date dial guard screw (A)
☆271 351	Hour wheel	012 007	Date dial guard screw (B)
☆271 352		012 008	Date driving wheel screw
☆271 353		012 015	Auxiliary plate screw (A)
282 350	Clutch wheel (Cal. 8C23A)	012 170	Auxiliary plate screw (B)
282 351	Clutch wheel (Cal. 8C22A)	032 001	Tube for train wheel bridge (A)
☆354 351	Winding stem	032 002	Tube for train wheel bridge (B)
383 350	Setting lever	032 004	Tube for circuit block cover screw (B)
384 350	Yoke	032 005	Tube for circuit block cover screw (C)
388 018	Setting lever spring	032 006	Tube for setting lever spring screw
391 350	Train wheel setting lever	032 007	Tube for date dial guard screw (A)
426 350	Train wheel bridge support	032 008	Tube for date dial guard screw (B)
436 350	Lower end-piece for third wheel	032 045	Tube for circuit block cover screw (A)
486 350	Clutch wheel guard	☆SEIKO SR726SW	Silver oxide battery
491 141	Dial washer	☆Maxell SR726SW	
556 350	Date finger (Cal. 8C23A)	☆U.C.C. 397	
556 351	Date finger (Cal. 8C22A)	☆SONY EVEREDY 397	
701 350	Fifth wheel & pinion		
719 350	Day corrector (Cal. 8C23A)		
☆801 140	Date dial (Cal. 8C23A)		
☆801 346	Date dial (Cal. 8C23A)		
☆801 347	Date dial (Cal. 8C22A)		
☆801 348	Date dial (Cal. 8C22A)		
802 350	Date driving wheel		
808 350	Date dial guard (Cal. 8C23A)		
808 353	Date dial guard (Cal. 8C22A)		
810 350	Date jumper		
817 350	Intermediate date wheel		
963 350	Snap for day star with dial disk (Cal. 8C23A)		
4000 350	Circuit block		
4002 015	Coil block		
4146 350	Step rotor		
4219 020	Battery connection insulator (A)		
4219 021	Battery connection insulator (B)		
4239 350	Rotor stator		
4270 006	Battery connection (-)		

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

Cal. 8C22A, 8C23A

Remarks :

Day star with dial disk

☆170 175 (English-Spanish, black figures on white background)

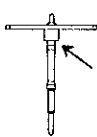


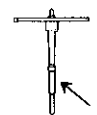


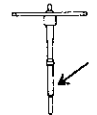


.....Used when both the crown and the calendar frame are located at 3 o'clock position.

If any other type of day star with dial disk is required, specify the number printed on the disk.

Fourth wheel & pinion, Center minute wheel, Hour wheel

There are three different types as specified below.

Combination :

Type	Fourth wheel & pinion	Center minute wheel	Hour wheel
* a	 ☆241 357	 ☆270 351	 ☆271 351
b	 ☆241 352	 ☆270 352	 ☆271 352
* c	 ☆241 353	 ☆270 353	 ☆271 353

* As of this printing the types marked "*" are not used. However it may be employed in the future with certain case designs.

Winding stem

☆354 351Refer 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.

Date dial

☆801 140 (Black figures on white background) (Cal. 8C23A)

☆801 346 (White figures on black background) (Cal. 8C23A)

☆801 347 (Black figures on white background) (Cal. 8C22A)

☆801 348 (White figures on black background) (Cal. 8C22A)

.....Used when both the crown and the calendar frame are located 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 ④ Dial No.

Battery

☆SEIKO SR726SWThe substitutive battery might be authorized in the future.

☆Maxell SR726SW

☆U.C.C. 397

☆SONY EVEREDY 397

In that case, please refer to separate "BATTERY LIST FOR SEIKO QUARTZ WATCHES".

Note that SEIKO Battery is marked with "SEIZAIKEN" on its (+) side.

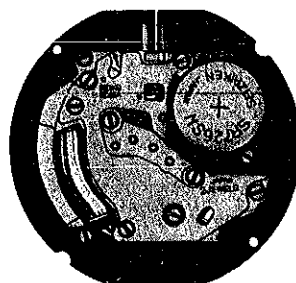
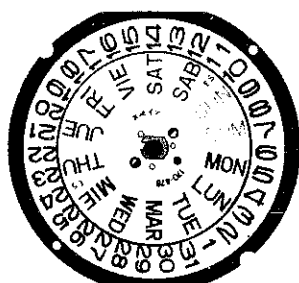
TECHNICAL GUIDE

SEIKO

QUARTZ

CAL. 8C22A

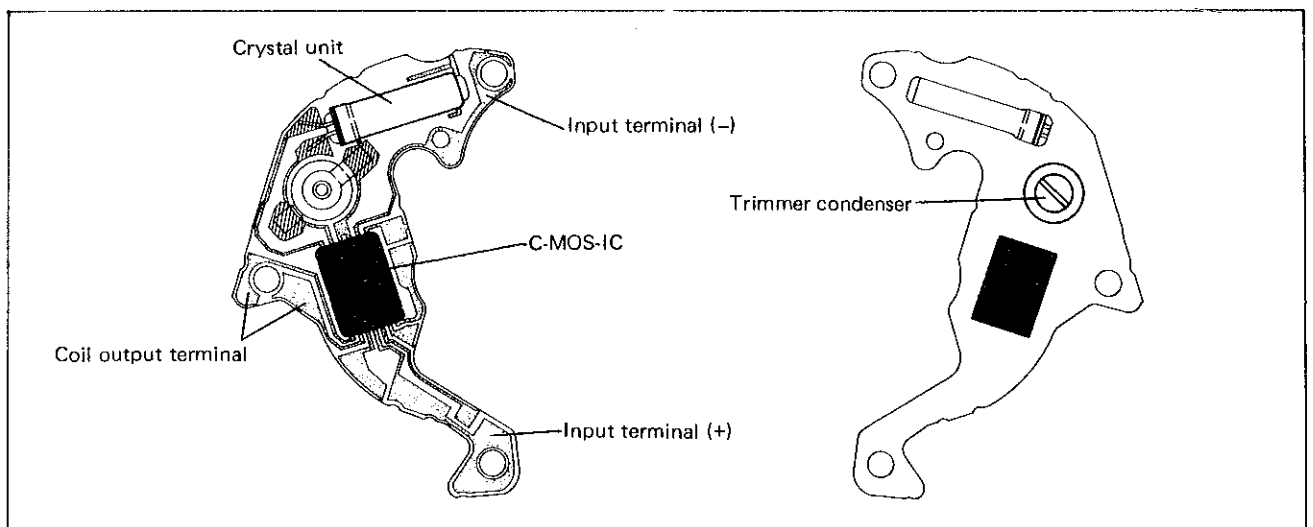
CAL. 8C23A



I. SPECIFICATIONS

		Cal. No.	8C22A	8C23A
		Item		
Time indication		3 hands		
Additional mechanism		Date		Day and date
		Instant date setting device		Instant day and date setting device
		Train wheel setting device		
		Electronic circuit reset switch		
		Battery life indicator		
Loss/gain		Monthly rate at normal temperature range: less than 15 seconds		
Movement size	Outside diameter	$\phi 24.5$ mm 24.5 mm between 6 o'clock and 12 o'clock sides 23.0 mm between 3 o'clock and 9 o'clock sides		
	Casing diameter	$\phi 23.8$ mm		
	Height	3.6 mm without battery		
Regulation system		Trimmer condenser		
Measuring gate by quartz tester		Any gate can be used.		
Battery		Battery life is approximately 5 years for SEIKO (SEIZAIKEN) SR726SW. Battery life is approximately 4 years for Maxell SR726SW, U.C.C. 397, and SONY EVEREADY 397. Voltage: 1.55V		
Jewels		2 jewels		

II. STRUCTURE OF THE CIRCUIT BLOCK



III. DISASSEMBLING, REASSEMBLING, AND LUBRICATING

List of the screws used

Shape	Part No.	Name	Shape	Part No.	Name
	012 005	Train wheel bridge screw (2 pcs.)		012 007	Date dial guard screw B (1 pc.)
		Circuit block cover screw (4 pcs.)		012 008	Date driving wheel screw (1 pc.)
		Setting lever spring screw (1 pc.)		012 015	Auxiliary plate screw A (2 pcs.)
	012 006	Date dial guard screw A (2 pcs.)		012 170	Auxiliary plate screw B (1 pc.)

Disassembling procedures Figs.: ① → ④⑨
 Reassembling procedures Figs.: ④⑨ → ①

Lubricating: Types of oil

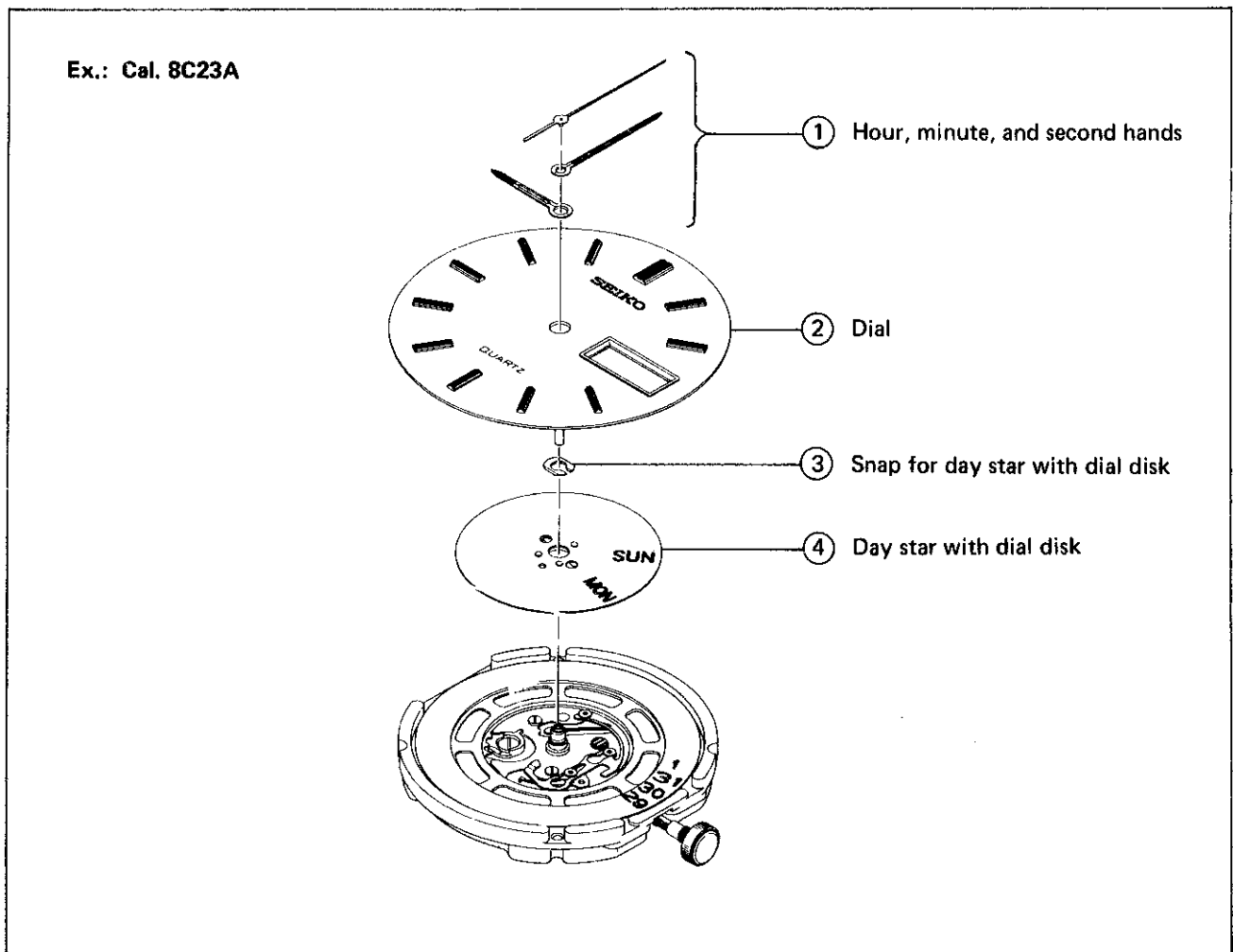
● Moebius A.
 ○ SEIKO Watch Oil S-6

Oil quantity

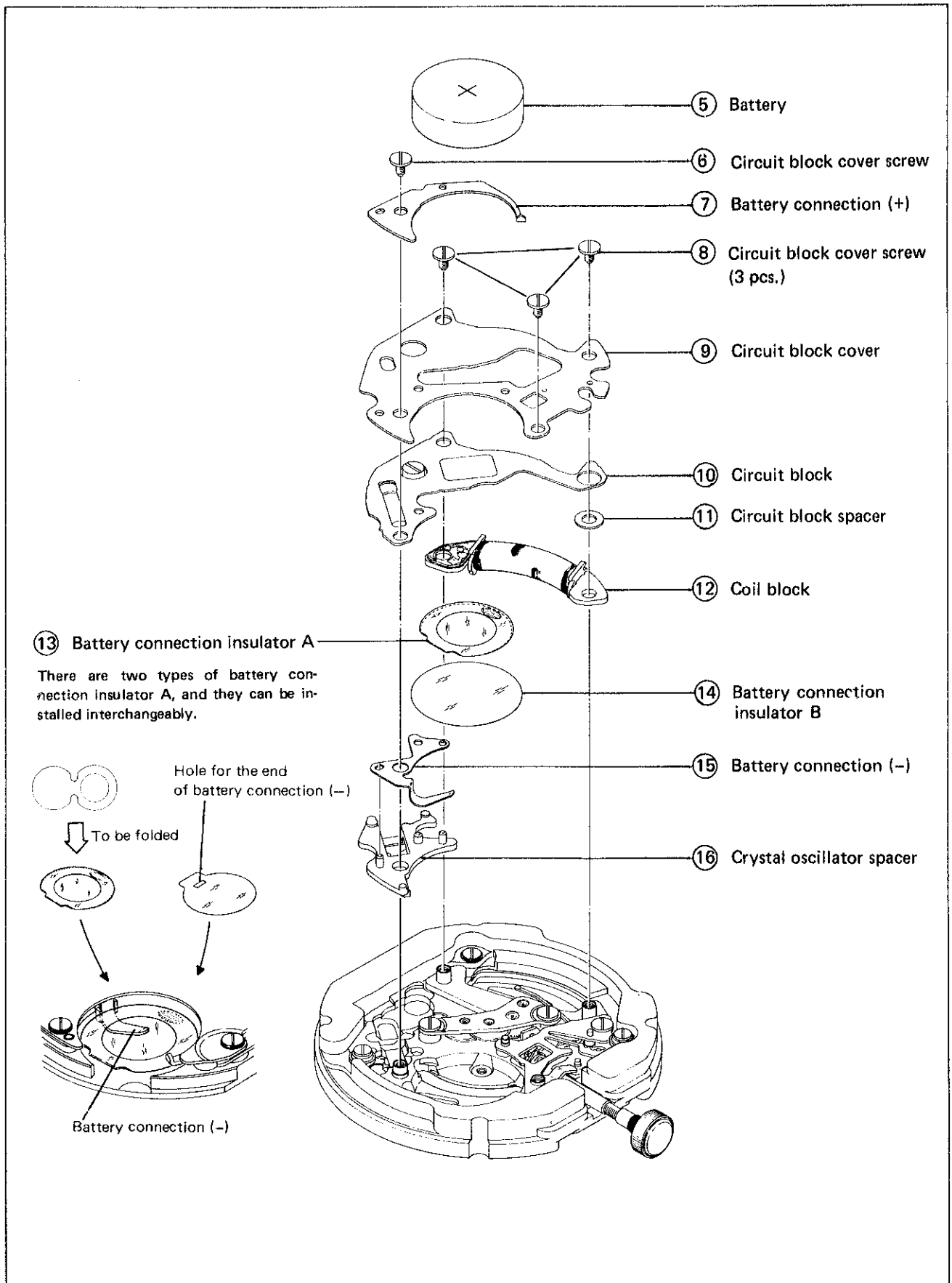
○ Normal quantity
 ○ Extremely small

● Use the universal movement holder for disassembling and reassembling.

1. Second hand ~ Day star with dial disk

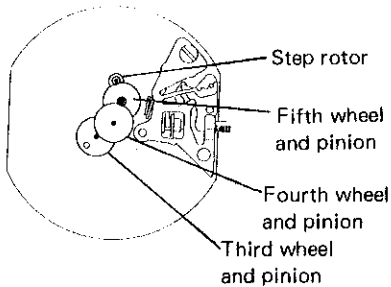
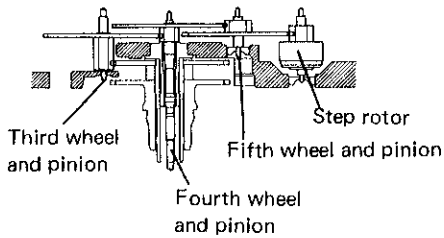


2. Battery ~ Crystal oscillator spacer



3. Train wheel bridge screw ~ Rotor stator

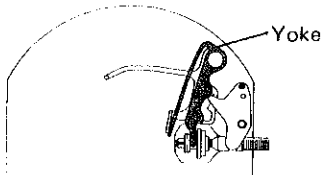
• **Setting position of the gear train**



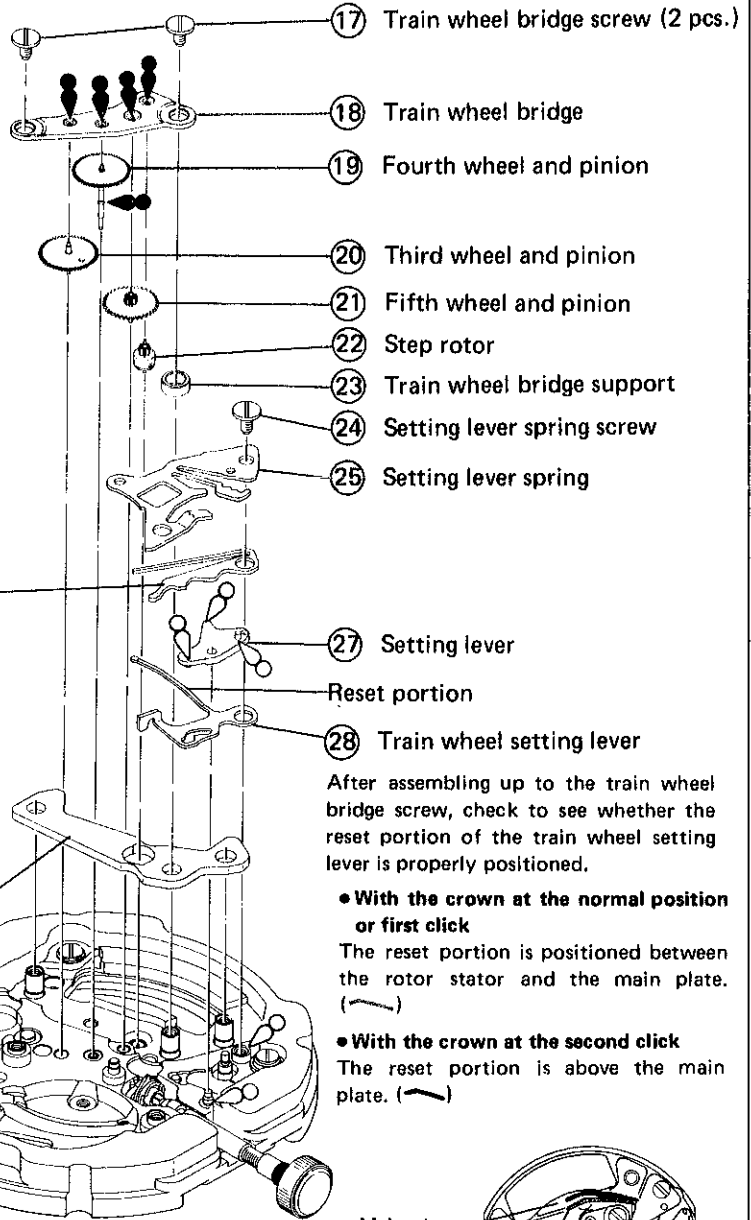
②⑥ Yoke

Remarks on reassembling

Set the yoke so that its spring portion correctly engages with the train wheel setting lever.



②⑨ Rotor stator



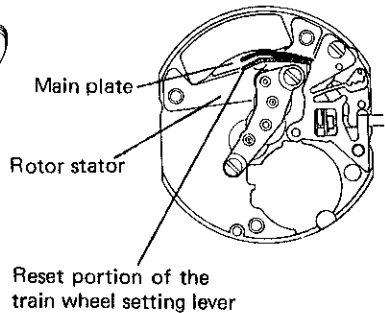
After assembling up to the train wheel bridge screw, check to see whether the reset portion of the train wheel setting lever is properly positioned.

• **With the crown at the normal position or first click**

The reset portion is positioned between the rotor stator and the main plate. (↖)

• **With the crown at the second click**

The reset portion is above the main plate. (↖)

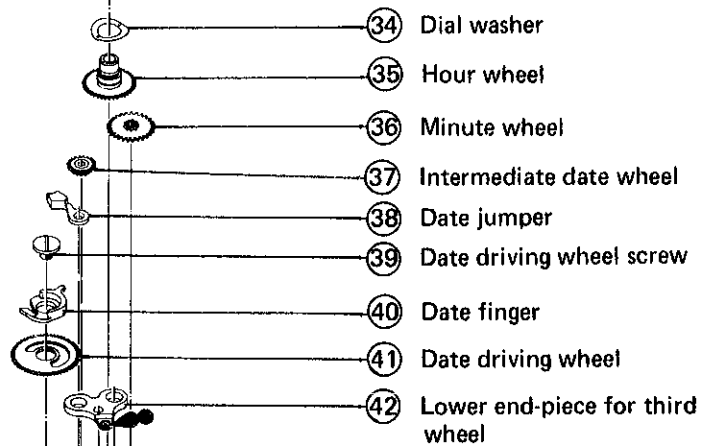
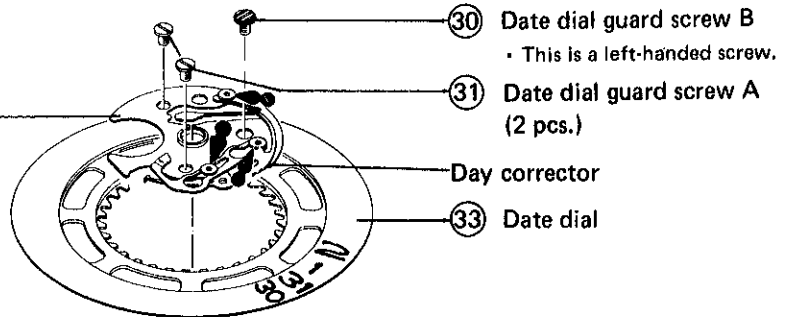
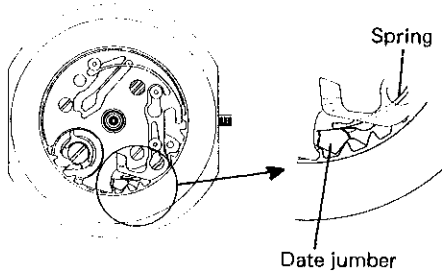


4. Date dial guard screw B ~ Auxiliary plate screw B

32 Date dial guard

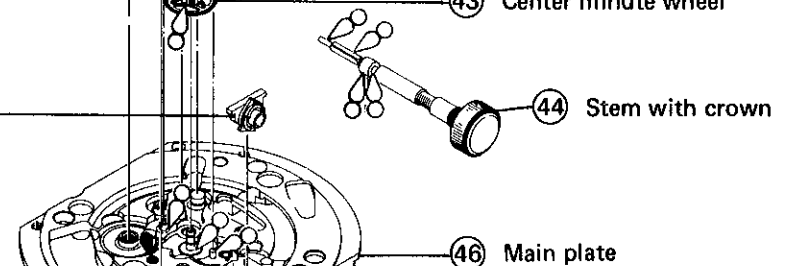
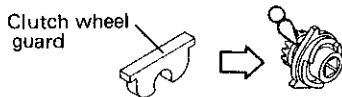
Remarks on reassembling

Set the date dial guard so that its spring is properly engaged with the date jumper.



45 Clutch wheel (with clutch wheel guard)

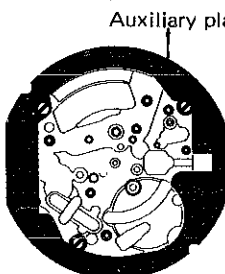
The clutch wheel has a clutch wheel guard. Do not remove the clutch wheel guard except when replacing it. When setting or removing it, be sure to pass a stick through the clutch wheel so that it may not turn during the work.



47 Auxiliary plate

How to set the auxiliary plate

Set the auxiliary plate onto the main plate, and then tighten the auxiliary plate screws A (2 pcs.) and B (1 pc.).



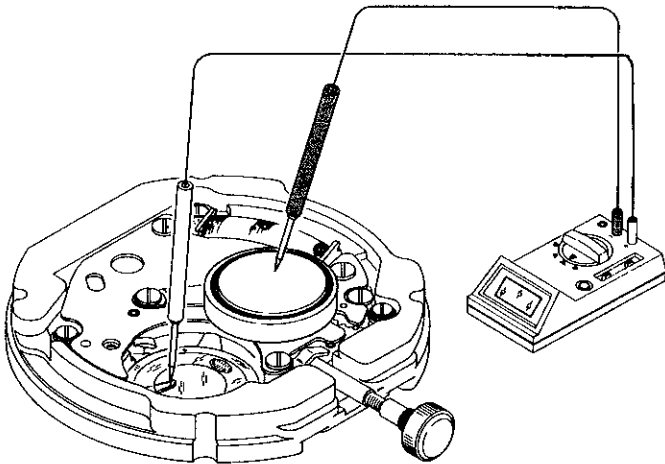
48 Auxiliary plate screw A (2 pcs.)

49 Auxiliary plate screw B

IV. CHECKING AND ADJUSTMENT

- The explanation here is only for the particular points of Cals. 8C22A and 8C23A.

Refer to the "TECHNICAL GUIDE, SEIKO ANALOGUE QUARTZ, Cal. 2A22A, 2A23A, 2A29A and 2A32A" and the "TECHNICAL GUIDE, GENERAL INSTRUCTION" for SEIKO Analogue Quartz for details.

Procedure	
CHECK COIL BLOCK	
Use the Digital Multi-Tester S-840A. Mode to be used: Ω	
	Result: Normal : $3.0K\Omega \sim 3.6K\Omega$ Defective — { Less than $3.0K\Omega$ (Short circuit) More than $3.6K\Omega$ (Broken wire) Replace the coil block with a new one.
CHECK CURRENT CONSUMPTION	
Use the Digital Multi-Tester S-840A. Mode to be used: μA	
<ul style="list-style-type: none">• Do not check current consumption under an incandescent lamp since strong light may cause a watch to consume excess current.• Be sure to protect the movement from light with black paper while measuring.	
	Result: Normal : Less than $0.9\mu A$ Defective: More than $0.9\mu A$