

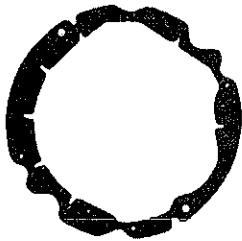
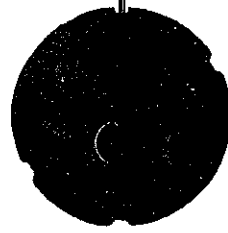
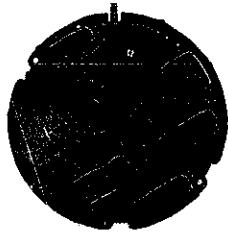
SEIKO

QUARTZ

Cal. 7A48A

**PARTS
CATALOGUE**

Cal. 7A48A



105 725



125 725



190 725



190 726



190 727



221 726



231 725



240 726



241 725



261 725



271 726



281 725



282 725



353 725



354 726



383 725



384 725



388 725



491 725



634 500



701 725



737 725



766 725



802 725



810 725



880 725



885 725



885 726



885 727



888 732



888 731



888 733



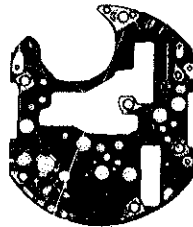
951 725



962 725



970 725



4001 726



4002 725



4002 726



4146 725



4146 727



4239 725



4239 726



4239 727



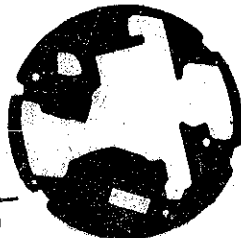
4259 725



4270 725



4271 729



4408 725



4408 726



4450 725



4450 727



4450 855



☆Maxell SR936SW



022 234



022 235



022 286



022 341



022 424



3/1

Cal. 7A48A

Characteristics

Casing diameter : ϕ 29.0 mm
 Maximum height : 4.4 mm without battery
 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
 Train wheel setting
 Date and moon phase display
 Chronograph
 Chronograph test system
 Battery life indicator

PART NO.	PART NAME	PART NO.	PART NAME
105 725	Dial seat	4146 727	Step rotor B (for second)
125 725	Train wheel bridge	4239 725	Rotor stator A (for time)
190 725	Chronograph second bridge	4239 726	Rotor stator C (for chronograph minute)
190 726	Chronograph minute bridge	4239 726	Rotor stator D (for chronograph 5/100 second)
190 727	Chronograph 5/100 second bridge	4239 727	Rotor stator B (for chronograph second)
221 726	Center wheel & pinion	4259 725	Anti-magnetic shield plate
231 725	Third wheel & pinion	4270 725	Battery connection (-)
240 726	Small second wheel	4271 729	Battery connection (+)
241 725	Fourth wheel & pinion	4408 725	Circuit block spacer
261 725	Minute wheel	4408 726	Setting wheel spacer
271 726	Hour wheel	4450 725	Change-over switch lever
281 725	Setting wheel	4450 727	Switch lever
282 725	Clutch wheel	4450 855	Rotary step switch
353 725	Friction spring for second counting wheel	022 235	Dial screw
354 726	Winding stem	022 234	Moon phase jumper 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
491 725	Dial washer	022 424	Train wheel bridge screw
634 500	Moon phase indicator	022 424	Chronograph minute bridge screw
701 725	Fifth wheel & pinion	022 424	Chronograph 5/100 second bridge screw
737 725	Date corrector setting wheel	022 424	Coil block screw
766 725	Intermediate minute wheel	022 424	Setting lever spring screw
802 725	Date driving wheel	011 151	Lower hole jewel for 5/100 second counting wheel
810 725	Date jumper	011 306	Upper hole jewel for minute counting wheel
880 725	Day corrector	011 306	Upper hole jewel for 5/100 second counting wheel
885 725	Second-counting intermediate wheel	011 542	Upper hole jewel for fifth wheel
885 726	Minute-counting intermediate wheel	011 542	Upper hole jewel for 5/100 second counting intermediate wheel
885 727	5/100 second-counting intermediate wheel	011 542	Lower hole jewel for 5/100 second counting intermediate wheel
888 732	Second counting wheel	011 552	Lower hole jewel for step rotor
888 731	Minute counting wheel	011 552	Lower hole jewel for step rotor (chronograph minute)
888 733	5/100 second counting wheel	011 552	Lower hole jewel for step rotor (chronograph second)
951 725	Moon phase jumper	011 552	Lower hole jewel for step rotor (chronograph 5/100 second)
962 725	Intermediate wheel for calendar corrector	011 568	Upper hole jewel for rotor stator
970 725	Date star		
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)		
4146 725	Step rotor C (for chronograph minute)		
4146 725	Step rotor D (for 5/100 second)		

☆ Please see remarks on the reverse page.

Part numbers in light letters are not shown in photos.

Cal. 7A48A

PART NO.	PART NAME	PART NO.	PART NAME
011 568	Upper hole jewel for rotor stator (chronograph minute)	☆027 144	screw (B) Tube for anti-magnetic shield plate (C)
011 568	Upper hole jewel for stee rotor (Chronograph second)	027 146	Tube for chronograph second bridge
011 568	Upper hole jewel for step rotor (Chronograph 5/100 second)	☆027 153	Tube for train wheel bridge A
011 739	Upper hole jewel for center minute wheel	027 153	Tube for chronograph minute bridge
023 337	Tube for setting lever spring screw	027 153	Tube for chronograph 5/100 second bridge
023 351	Guide tube for setting lever spring screw	☆027 154	Tube for anti-magnetic shield plate screw (D)
☆027 138	Tube for train wheel bridge B	027 758	Setting lever pin
027 139	Tube for setting lever spring screw	027 768	Switch lever axle
027 140	Tube for coil block screw	027 760	Tube for setting lever
☆027 141	Tube for anti-magnetic shield plate screw (A)	027 761	Switch pin
027 141	Tube for battery connection (+) screw (A)	027 769	Pin for intermediate wheel for calendar correction
☆027 143	Tube for anti-magnetic shield plate (B)	027 770	Pin for calendar corrector setting wheel
027 143	Tube for battery connection (+)	027 966	Date star pin
		☆Maxell SR936SW	Silver oxide battery
		☆U.C.C. 394	

Remarks:

Winding stem

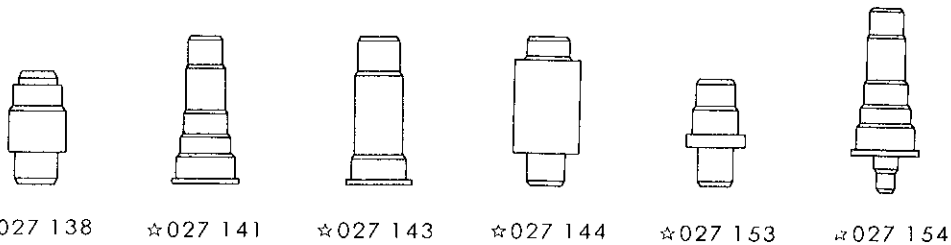
☆354 726.....Refer to the photograph on the front page.

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.

Tube for train wheel bridge (A), (B), Tube for anti-magnetic shield plate (A), (B), (C)

☆027 138
☆027 141
☆027 143
☆027 144
☆027 153
☆027 154

.....Refer to the illustration below.



Battery

☆Maxell SR936SW
☆U.C.C. 394

.....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."

☆⇨ Please see remarks.

Part numbers in light letters are not shown in photos.

TECHNICAL GUIDE

SEIKO
QUARTZ

CAL. 7A48A



CONTENTS

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IV. CHECKING AND ADJUSTMENT	3

I. SPECIFICATIONS

Item	Cal. No.	7A48A
Time indication		Hour, minute and small second hands
Additional mechanism		<ul style="list-style-type: none"> • Stopwatch function (Minute, second and 5/100 second hands) • Calendar (date) function • Lunar calendar function • Counter function • Electronic circuit reset switch • Train wheel setting device • Battery life indicator
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
Measuring gate by quartz tester		Use the 10-second gate.
Battery		U.C.C. 394, Maxell SR936SW Battery life is approximately 2 years. Voltage: 1.55V
Jewels		15 jewels

II. CALENDARS

• Date

The date is indicated by the date hand. Read the numeral or the dot between numerals on the dial that the date hand points to.

How to adjust the date

1. Pull the crown out to the 1st click position.
2. Turn the crown clockwise and set the date hand.

• Moon phase

The phases (waxing and waning) of the moon are displayed by those shapes which a circle (the moon) and the dual-mountain-shaped opening on the dial combine to form.

The illustration on the right does not show the exact shapes of the moon.

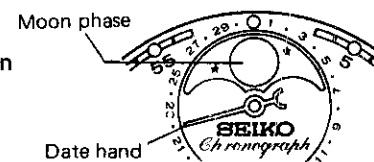
Age of the moon	0 (New Moon)	7	15 (Full Moon)	22
Moon phase				

How to adjust the moon phase

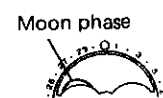
Refer to a newspaper for the age of the moon. Round off fractions if any.

Ex.: Age of the moon: 25.4 → 25.0

1. Pull the crown out to the 1st click position.
2. Turn the crown counterclockwise and set the moon on the position as shown in the illustration on the right.
3. Then advance the moon to the 25th step position by turning the crown counterclockwise.



Age of the moon: 1



(The moon peers slightly over the left moon.)

III. DISASSEMBLING, REASSEMBLING, AND LUBRICATING

• List of the screws used (Calendar mechanism only)

Shape	Part No.	Name	Shape	Part No.	Name
	022 235	Dial screw (2 pcs.)		022 234	Moon phase jumper screw (3 pcs.)

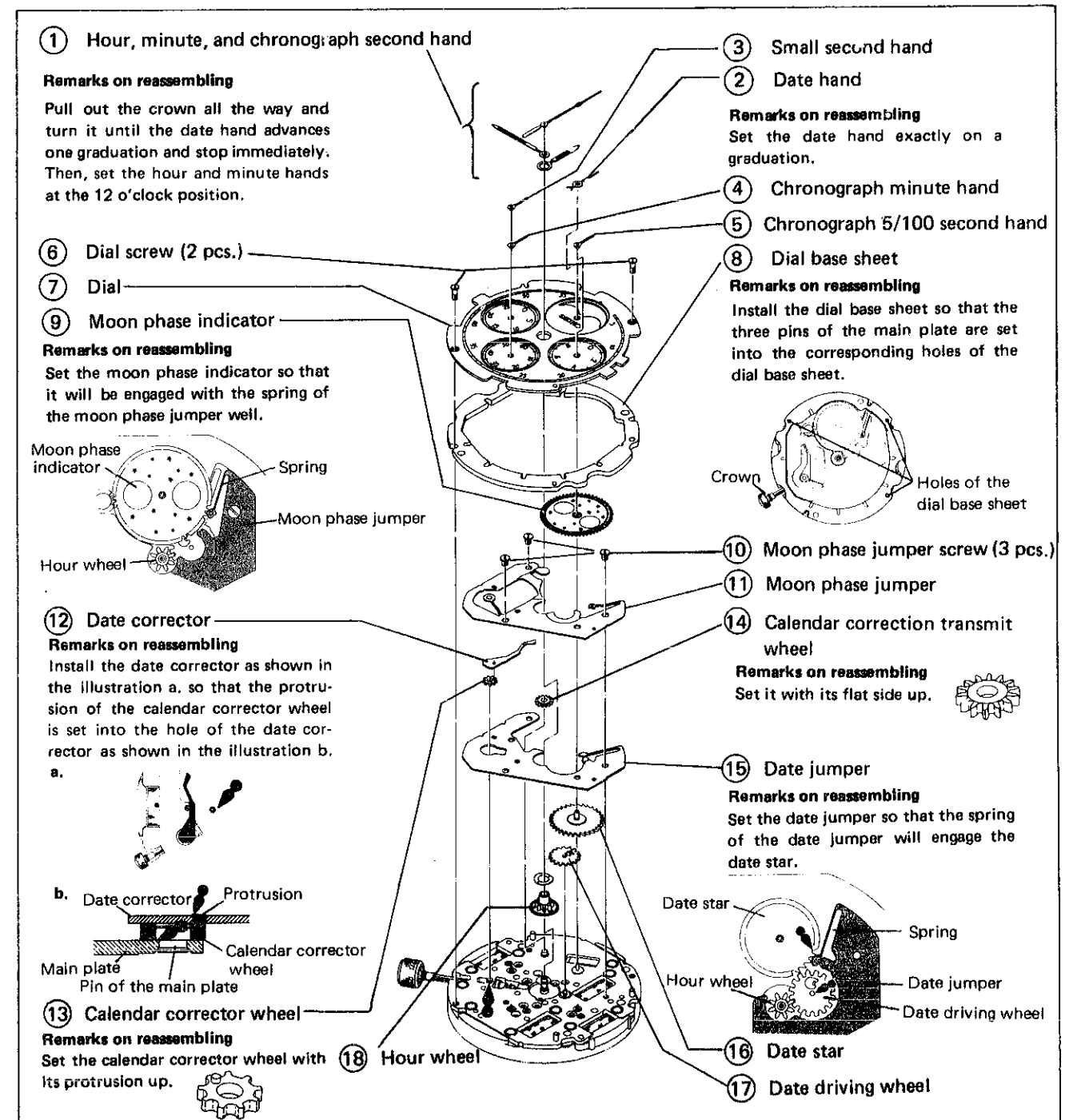
Lubricating:

Moebius A, Normal quantity

Disassembling procedures Figs.: ① → ⑱

Reassembling procedures Figs.: ⑱ → ①

• Calendar mechanism (Chronograph second hand ~ Hour wheel)



IV. CHECKING AND ADJUSTMENT

- The explanation here is only for the particular points of Cal. 7A48A. Refer to the "TECHNICAL GUIDE, Cal. 7A28A" and the "TECHNICAL GUIDE, GENERAL INSTRUCTION" for SEIKO Analogue Quartz for details.

Procedure	
CHECK SETTING AND CALENDAR MECHANISM	
<ul style="list-style-type: none">• With the crown at the 1st clock position, check to see if the date hand can be adjusted by turning the crown clockwise.	<p>Result:</p> <p>Normal: The date hand advances by one graduation.</p> <p>Defective: The date hand does not advance by one graduation.</p> <p>Proceed to check the date star cogs.</p> <p>Neither cog break nor scratch: Check the date corrector.</p> <p>Either cog break or scratch: Replace the date star with a new one.</p>
<p>Note: Do not adjust the calendars while the watch indicates around 10:00 p.m. to around 4:00 a.m., since it may cause the calendars malfunction.</p>	
<ul style="list-style-type: none">• With the crown at the 1st click position, check to see if the moon phase indicator can be adjusted by turning the crown counterclockwise.	<p>Result:</p> <p>Normal : The moon phase indicator advances by one step.</p> <p>Defective : The moon phase indicator does not advance by one step.</p> <p>Proceed to check the moon phase indicator cogs.</p> <p>Neither cog break nor scratch: Check the calendar correction transmit wheel.</p> <p>Either cog break or scratch: Replace the moon phase indicator with a new one.</p>
<ul style="list-style-type: none">• With the crown at the 2nd click position, turn it to advance the hour and minute hands to see if the date hand and the moon phase indicator are geared to change properly.	

All procedures of Disassembling, Reassembling, Lubricating, Checking and Adjustment are completed.