EMMYWATCH

VINTAGE RESTORATIONS

Seiko 7A48A Movement Parts (1)

Compiled by EmmyWatch - https://www.emmywatch.com

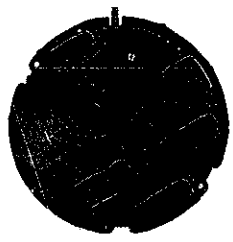
SEIKO

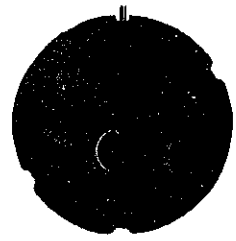
QUARTZ

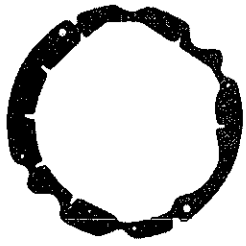
Cal. 7A48A

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

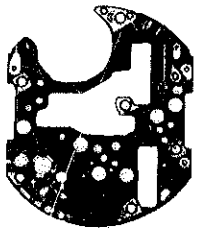
888 731

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

2/1

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
105 725	Dial seat
125 725	Train wheel bridge
190 725	Chronograph second bridge
190 726	Chronograph minute bridge
190 727	Chronograph 5/100 second bridge
221 726	Center wheel & pinion
231 725	Third wheel & pinion
240 726	Small second wheel
241 725	Fourth wheel & pinion
261 725	Minute wheel
271 726	Hour wheel
281 725	Setting wheel
282 725	Clutch wheel
353 725	Friction spring for second counting wheel
354 726	Winding stem
383 725	Setting lever
384 725	Yoke
388 725	Setting lever spring
491 725	Dial washer
634 500	Moon phase indicator
701 725	Fifth wheel & pinion
737 725	Date corrector setting wheel
766 725	Intermediate minute wheel
802 725	Date driving wheel
810 725	Date jumper
880 725	Day corrector
885 725	Second-counting intermediate wheel
885 726	Minute-counting intermediate wheel
885 727	5/100 second-counting intermediate wheel
888 732	Second counting wheel
888 731	Minute counting wheel
888 733	5/100 second counting wheel
951 725	Moon phase jumper
962 725	Intermediate wheel for calendar corrector
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)
4146 727	Step rotor B (for second)
4239 725	Rotor stator A (for time)
4239 726	Rotor stator C (for chronograph minute)
4239 726	Rotor stator D (for chronograph 5/100 second)
4239 727	Rotor stator B (for chronograph second)
4259 725	Anti-magnetic shield plate
4270 725	Battery connection (−)
4271 729	Battery connection (+)
4408 725	Circuit block spacer
4408 726	Setting wheel spacer
4450 725	Change-over switch lever
4450 727	Switch lever
4450 855	Rotary step switch
022 235	Dial screw
022 234	Moon phase jumper screw
022 286	Anti-magnetic shield plate screw
022 286	Battery connection (+) screw
022 341	Chronograph second bridge screw
022 424	Train wheel bridge screw
022 424	Chronograph minute bridge screw
022 424	Chronograph 5/100 second bridge screw
022 424	Coil block screw
022 424	Setting lever spring screw
011 151	Lower hole jewel for 5/100 second counting wheel
011 306	Upper hole jewel for minute counting wheel
011 306	Upper hole jewel for 5/100 second counting wheel
011 542	Upper hole jewel for fifth wheel
011 542	Upper hole jewel for 5/100 second counting intermediate wheel
011 542	Lower hole jewel for 5/100 second counting intermediate wheel
011 552	Lower hole jewel for step rotor
011 552	Lower hole jewel for step rotor (chronograph minute)
011 552	Lower hole jewel for step rotor (chronograph second)
011 552	Lower hole jewel for step rotor (chronograph 5/100 second)
011 568	Upper hole jewel for rotor stator

☆⇨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)		screw (B)
011 568	Upper hole jewel for stee rotor (Chronograph second)	☆027 144	Tube for anti-magnetic shield plate (C)
011 568	Upper hole jewel for step rotor (Chronograph 5/100 second)	027 146	Tube for chronograph second bridge
011 739	Upper hole jewel for center minute wheel	☆027 153	Tube for train wheel bridge A
023 337	Tube for setting lever spring screw	027 153	Tube for chronograph minute bridge
023 351	Guide tube for setting lever spring screw	027 153	Tube for chronograph 5/100 second bridge
☆027 138	Tube for train wheel bridge B	☆027 154	Tube for anti-magnetic shield plate screw (D)
027 139	Tube for setting lever spring screw	027 758	Setting lever pin
027 140	Tube for coil block screw	027 768	Switch lever axle
☆027 141	Tube for anti-magnetic shield plate screw (A)	027 760	Tube for setting lever
027 141	Tube for battery connection (+) screw (A)	027 761	Switch pin
☆027 143	Tube for anti-magnetic shield plate (B)	027 769	Pin for intermediate wheel for calendar correction
027 143	Tube for battery connection (+)	027 770	Pin for calendar corrector setting wheel
		027 966	Date star pin
		☆Maxell SR936SW ☆U.C.C. 394	Silver oxide battery

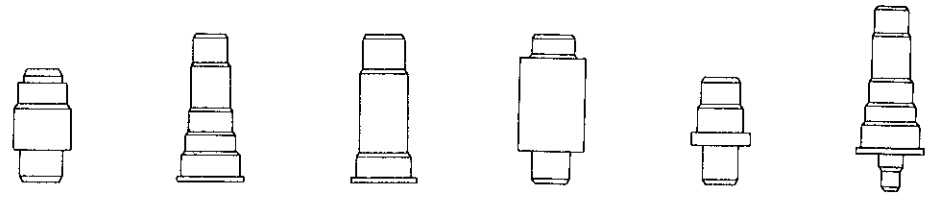
Remarks:

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.



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

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.

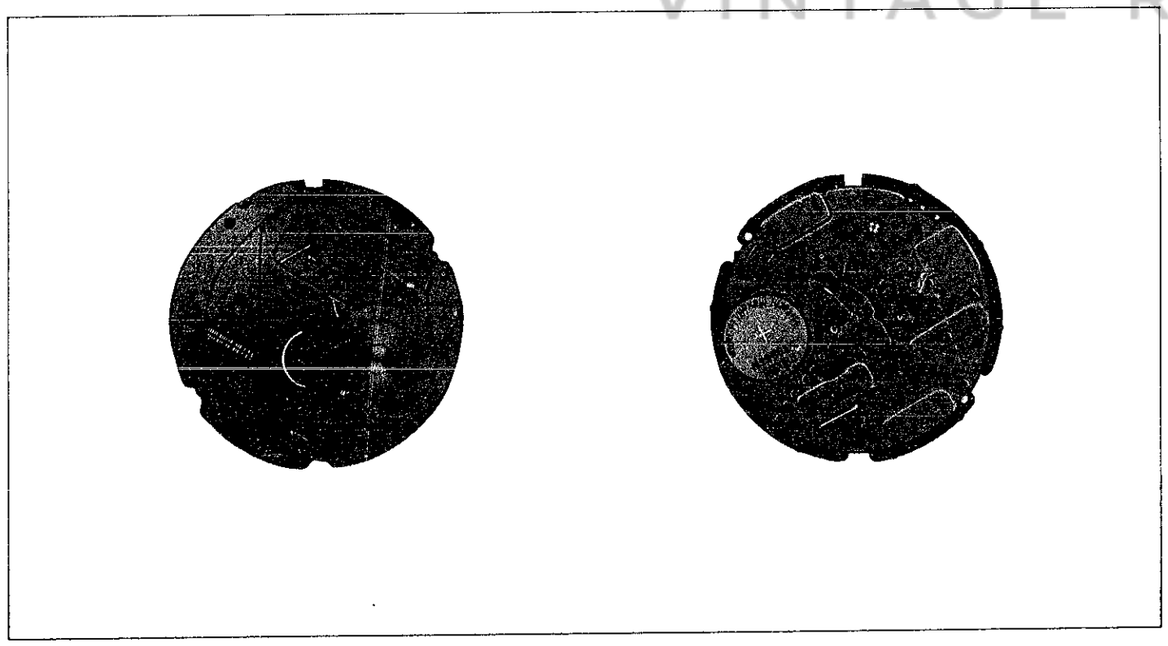
83. 9 Printed in Japan

TECHNICAL GUIDE

SEIKO

QUARTZ

CAL. 7A48A



CONTENTS

I. SPECIFICATIONS 1

II. CALENDARS 1

III. DISASSEMBLING, REASSEMBLING, AND LUBRICATING 2

IV. CHECKING AND ADJUSTMENT 3

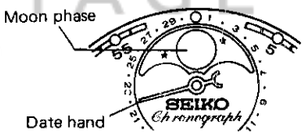
I. SPECIFICATIONS

Item \ Cal. No.		7A48A
Time indication		Hour, minute and small second hands
Additional mechanism		• 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.



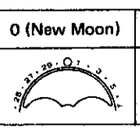
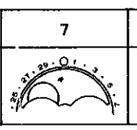
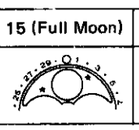
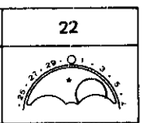
How to adjust the date

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

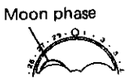
Refer to a newspaper for the age of the moon. Round off fractions if any.

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

Moon phase



(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.)

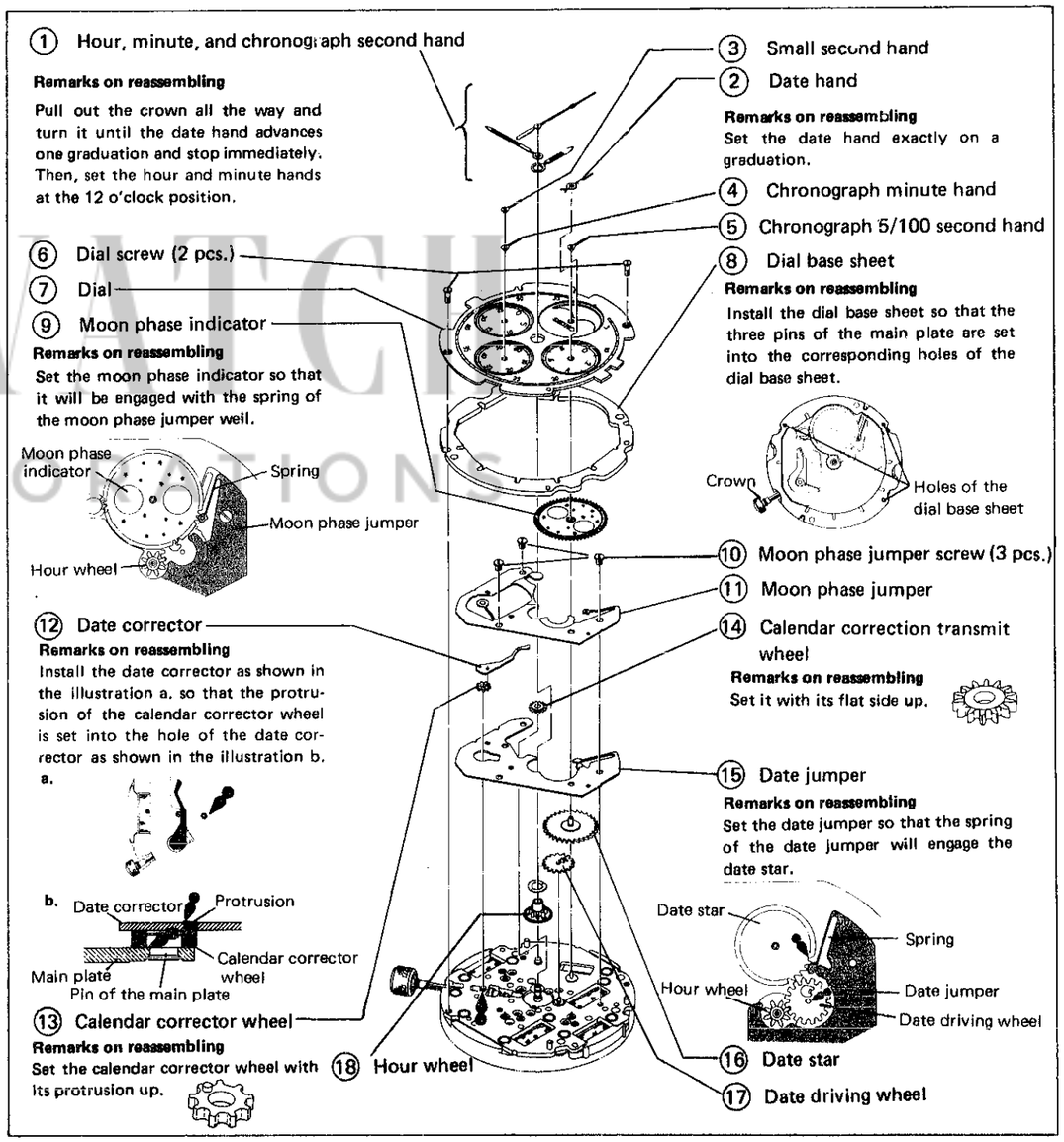
Lubricating:

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
• With the crown at the 1st clock position, check to see if the date hand can be adjusted by turning the crown clockwise. **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. **Result:** Normal: The date hand advances by one graduation. Defective: The date hand does not advance by one graduation. Proceed to check the date star cogs. Neither cog break nor scratch: Check the date corrector. Either cog break or scratch: Replace the date star with a new one.
• With the crown at the 1st click position, check to see if the moon phase indicator can be adjusted by turning the crown counterclockwise. **Result:** Normal : The moon phase indicator advances by one step. Defective : The moon phase indicator does not advance by one step. Proceed to check the moon phase indicator cogs. Neither cog break nor scratch: Check the calendar correction transmit wheel. Either cog break or scratch: Replace the moon phase indicator with a new one.
• 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.