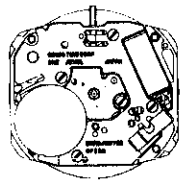
PARTS CATALOGUE/TECHNICAL GUIDE

Cal. 6F22A
Cal. 6F29A

[SPECIFICATIONS]

Item \ Cal. No.		6F22A	6F29A
Movement		  The illustrations refer to Cal. 6F22. (x 1.0)	
Movement size	Outside diameter	19.0 mm between 3 o'clock and 9 o'clock sides 22.0 mm between 6 o'clock and 12 o'clock sides	
	Casing diameter	ϕ24.0 mm	
	Height	3.3 mm	
Time indication		3 hands	2 hands
Driving system		Step motor (Load compensated driving pulse type)	
Additional mechanism		• Numerical date calendar • Moon phase display • Instant moon phase setting device • Instant calendar (date) setting device • Train wheel setting device • Electronic circuit reset switch	
Loss/gain		Monthly rate at normal temperature range: less than 15 seconds	
Regulation system		Nil	
Measuring gate by quartz tester		Use 10-second gate.	
Battery		SEIKO SR920SW, Maxell SR920SW, SONY SR920SW, Matsushita SR920SW, EVEREADY 371 Battery life is approximately 3 years. Voltage: 1.55V	
Jewels		1 jewel	

HATTORI SEIKO CO., LTD.

PARTS CATALOGUE

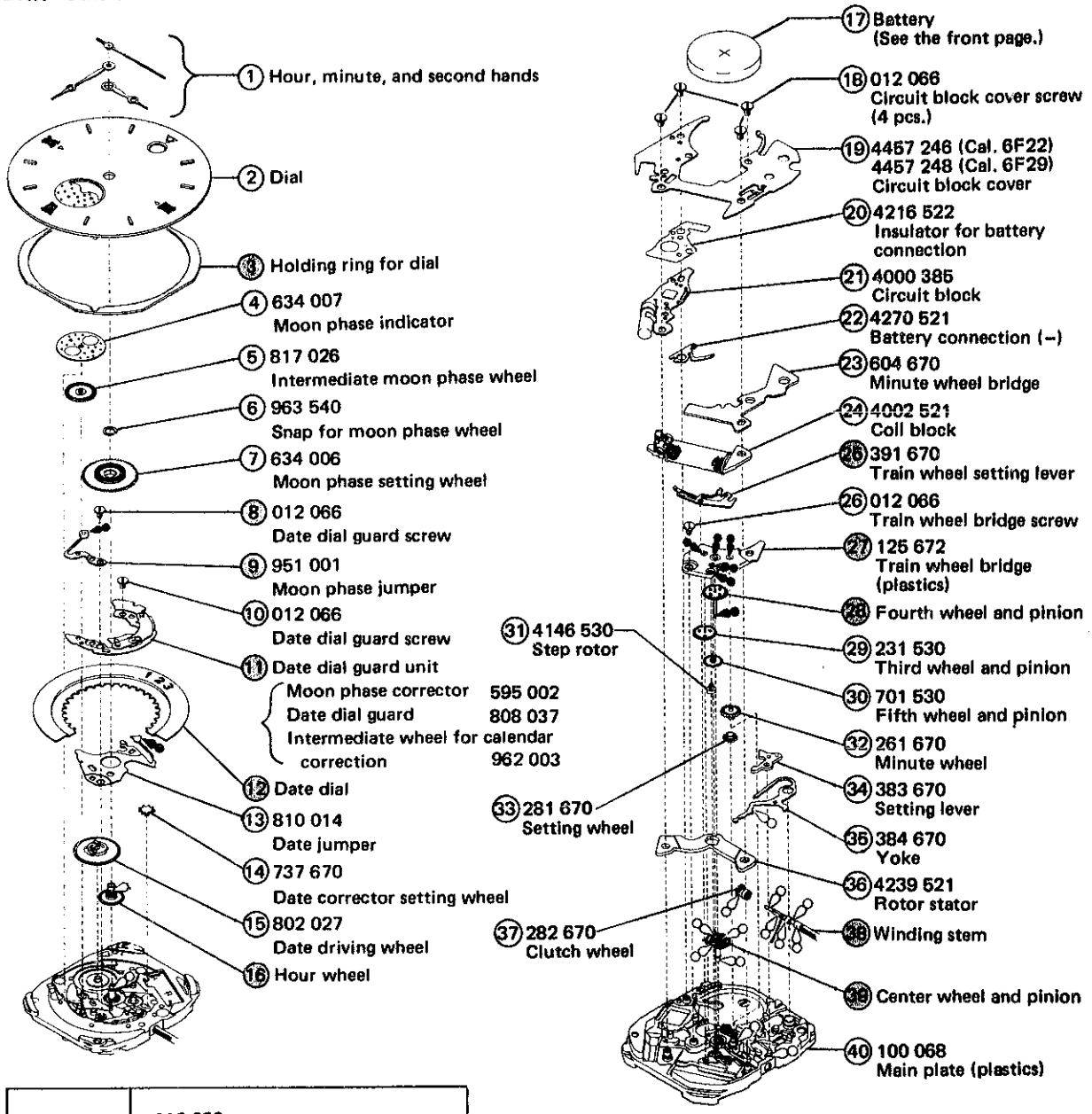
Cal. 6F22A, 6F29A

Disassembling procedures Figs.: (1) → (40)

Reassembling procedures Figs.: (40) → (1)

Lubricating: **Types of oil** — Moebius A; SEIKO Watch Oil S-6 — **Oil quantity** — Normal quantity; Extremely small

Ex.: Cal. 6F22A



012 066

Date dial guard screw (2 pcs.)

Circuit block cover screw (4 pcs.)

Train wheel bridge screw (1 pc.)

(◎) ⇨ Please see the remarks on the following pages.

Remarks:

③ Holding ring for dial 884 158

The type of holding ring for dial is determined based on the design of cases.
Check the case number and refer to "SEIKO Casing Parts Catalogue" to choose a corresponding holding ring for dial.

⑫ Date dial

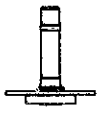
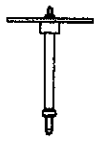
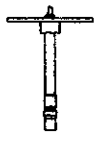
Part code	Crown position	Calendar frame position	Figure color	Ground color
801 431	3 o'clock	3 o'clock	Black	White
801 435	3 o'clock	12 o'clock	Black	White
801 437	3 o'clock	12 o'clock	Black	Gold
801 438	3 o'clock	12 o'clock	Gold	Black

The type of date dial differs, depending on the design of cases. When ordering the date dial, please specify (1) Cal. No., (2) the crown position, (3) the calendar frame position, (4) Dial No., and (5) the color.

⑯ Hour wheel

㉘ Fourth wheel and pinion

㊴ Center wheel and pinion

Part name / Movement type	Center wheel and pinion	Fourth wheel and pinion	Hour wheel
M (Standard type)	 221 670	 241 670 (Cal. 6F22)  241 179 (Cal. 6F29)	 271 179

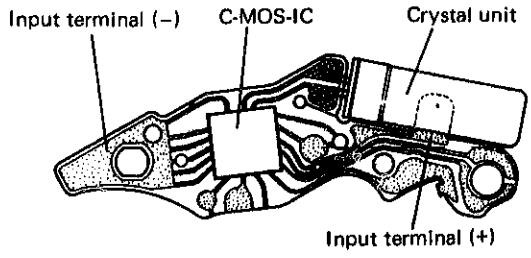
The types of hour wheel, fourth wheel and pinion, and center wheel and pinion are determined based on the design of cases.
Check the case number and refer to "SEIKO Casing Parts Catalogue" to choose corresponding types.

㊳ Winding stem 351 670

The type of winding stem is determined based on the design of cases.
Check the case number and refer to "SEIKO Casing Parts Catalogue" to choose a corresponding winding stem.

- The explanation here is only for the particular points of Cal. 6F22A and 6F29A.
- For repairing, checking and measuring procedures, refer to the "TECHNICAL GUIDE, GENERAL INSTRUCTIONS".

I. STRUCTURE OF THE CIRCUIT BLOCK



II. REMARKS ON DISASSEMBLING AND REASSEMBLING

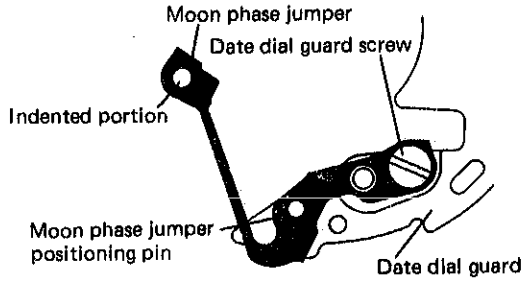
Use the universal movement holder for disassembling and reassembling.

⑧ Date dial guard screw

⑨ Moon phase jumper

- **How to install**

Set the moon phase jumper to the moon phase jumper positioning pin, then tighten the date dial guard screw while holding the moon phase jumper lightly with fingers.

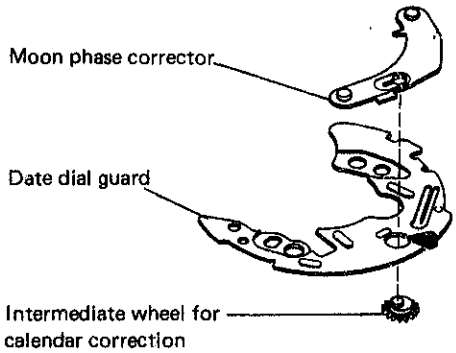


⑪ Date dial guard unit

*Unless necessary, do not disassemble the moon phase corrector and intermediate wheel for calendar correction from the date dial guard.

- **How to disassemble**

Place the date dial guard unit on a flat metal plate with the moon phase corrector side up, escaping the intermediate wheel for calendar correction.
Then, lightly press the axle head of the intermediate wheel for calendar correction with tweezers.



- **Remarks on disassembling and reassembling the moon phase corrector**

The moon phase corrector is a plastic part with some elasticity in the contact with the intermediate wheel for calendar correction. When disassembling and reassembling it, be careful not to scratch, deform, or warp it and also do not mistake the front for the back and vice versa.

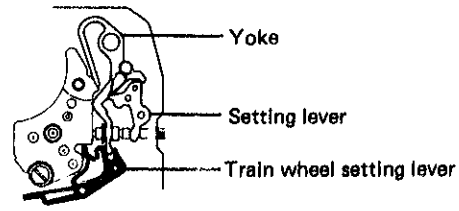
- **Lubricating the intermediate wheel for calendar correction**

Apply Moebius A to the contacting portion of the intermediate wheel for calendar correction with the date dial guard.

㉕ Train wheel setting lever

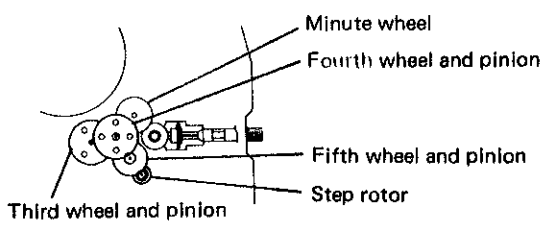
- **Setting position and lubricating**

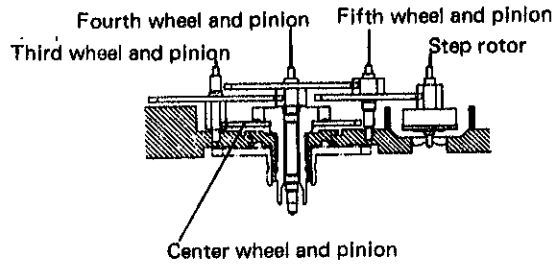
Set the yoke and the train wheel setting lever in position. Lubricate the contacting portion of the yoke and the setting lever.



㉗ Train wheel bridge

- **Setting position**





III. VALUE CHECKING

- Coil block resistance

  2.7KΩ ~ 3.5KΩ

- Current consumption

  For the whole of the movement: less than 1.2μA

  For the circuit block alone : less than 0.4μA

Remarks:
When the current consumption exceeds the standard value for the whole of the movement but is less than the standard value for the circuit block alone, overhaul and clean the movement parts and then measure current consumption for the whole of the movement again. The driving pulse generated to compensate a heavy load that may apply on the gear train, etc. is considered to cause excessive current consumption for the whole of the movement.