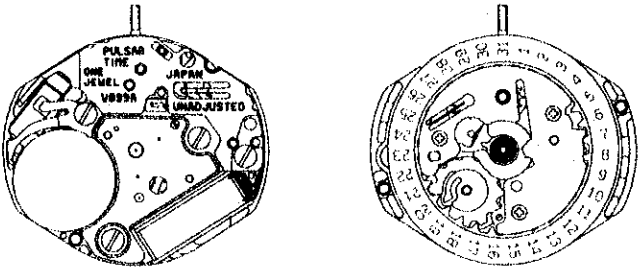


# PARTS CATALOGUE/TECHNICAL GUIDE

## Cal. V899A

### [SPECIFICATIONS]

Cal. No.		V899A
Item		
Movement		
Movement size	Outside diameter	17.6 mm between 6 o'clock and 12 o'clock sides 15.3 mm between 3 o'clock and 9 o'clock sides
	Casing diameter	φ17.1 mm
	Height	2.6 mm (including the battery portion)
Time indication		2 hands
Driving system		Step motor (Load compensated driving pulse type)
Additional mechanism		Date calendar
		Instant calendar (date) setting device
		Train wheel setting device
		Electronic circuit reset switch
Loss/gain		Monthly rate at normal temperature range: less than 20 seconds
Regulation system		Nil
Measuring gate by quartz tester		Use 10-second gate.
Battery		SEIKO SR621SW, Maxell SR621SW, SONY SR621SW, EVEREADY 364 Battery life is approximately 2 years. Voltage: 1.55V
Jewels		1 jewel

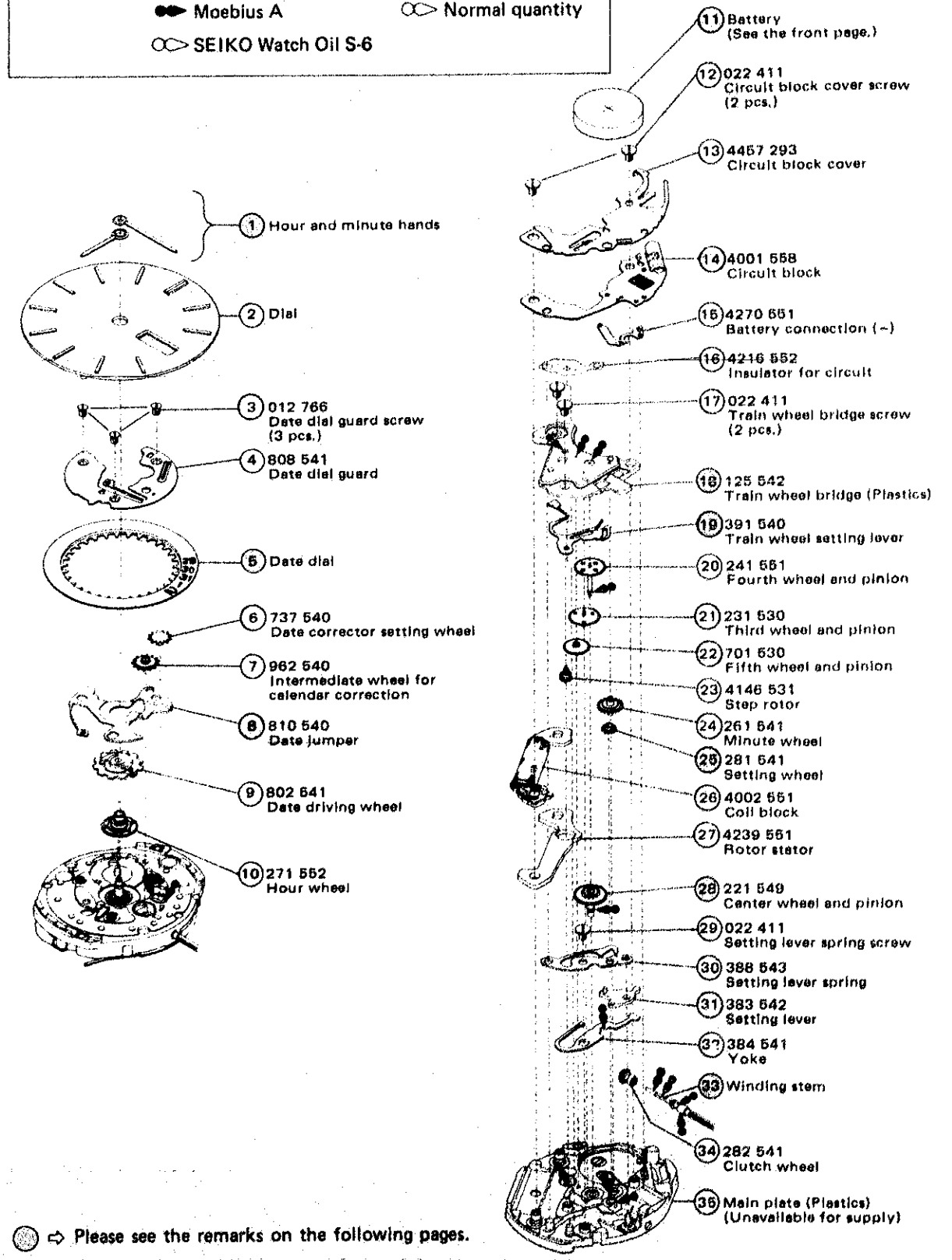
HATTORI SEIKO CO., LTD.

# PARTS CATALOGUE

Cal. V899A

Disassembling procedures Figs.: ① → ③⑤  
Reassembling procedures Figs.: ③⑤ → ①

Lubricating: Types of oil      Oil quantity  
 ● Moebius A      ∞ Normal quantity  
 ○ SEIKO Watch Oil S-6



⊙ ⇨ Please see the remarks on the following pages.

**Remarks:**

⑤ Date dial

Part code	Position of crown & calendar	Color of figure	Color of background
801 754	3 o'clock	Black	White
801 756	Crown : 3 o'clock Calendar : 6 o'clock	Black	White

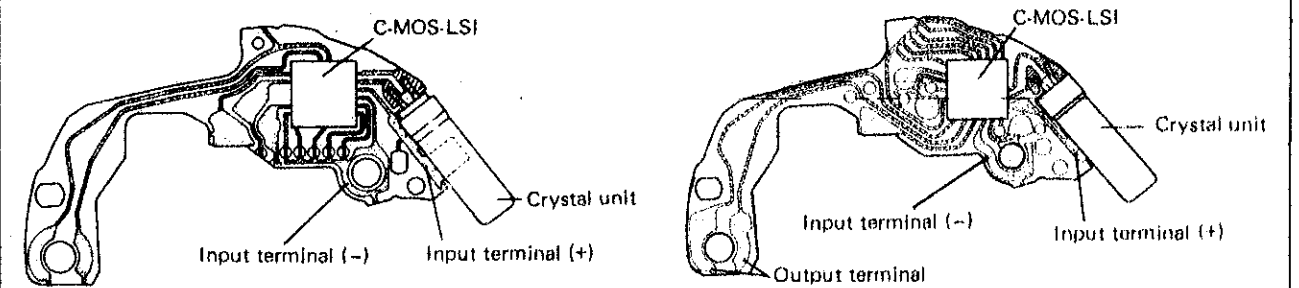
If any other type of date dial is required, refer to "List of Date Dial" or "Casing Parts Catalogue" to choose a corresponding one.

③③ Winding stem 351 546

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

- The explanation here is only for the particular points of Cal. V899A.
- For the 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.

① Hands

- **Installing**

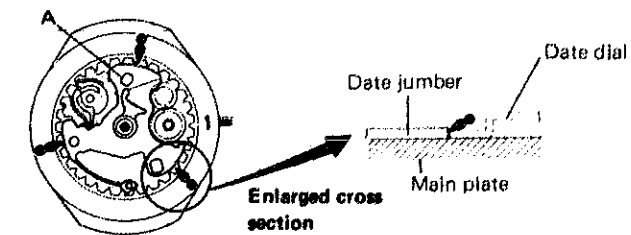
Since a plastic train wheel bridge is used, take out the battery and place the movement directly on a flat metal plate or the like to install the hands.

⑧ Date jumper

- **Installing**

Push the interference part "A" with tweezers, etc. to fix the date jumper in position.

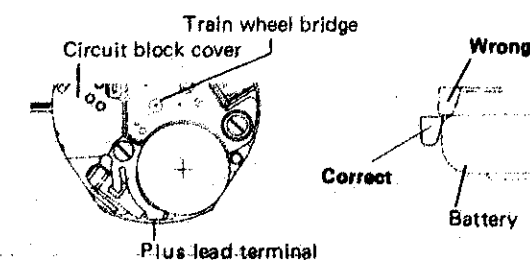
- **Lubricating**



⑪ Battery

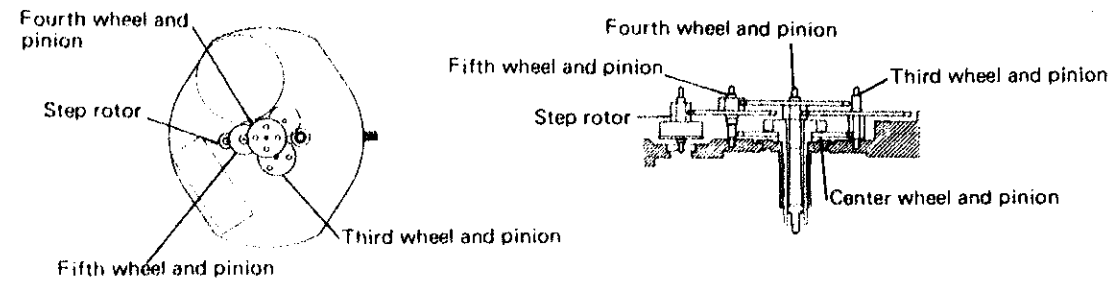
- **Setting position**

The plus lead terminal portion of the circuit block cover touches the side surface of the battery.



⑱ Train wheel bridge

● Setting position



⑲ Train wheel setting lever

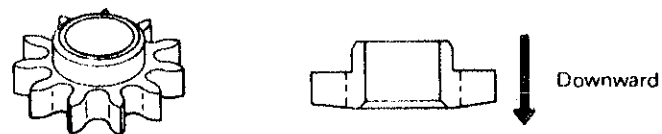
● Setting position

● Lubricating



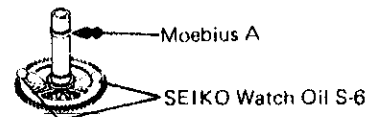
⑳ Setting wheel

● Installing



㉑ Center wheel and pinion

● Lubricating



### III. VALUE CHECKING

● Coil block resistance

2.7K $\Omega$  ~ 4.1K $\Omega$

● Current consumption

For the whole of the movement : less than 1.4 $\mu$ A

For the circuit block alone : less than 0.4 $\mu$ A

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.
- Be sure to protect the movement from light with black paper or the like while measuring accuracy and current consumption, as the C-MOS-LSI installed on the movement may be adversely affected by strong light and abnormal values may result.