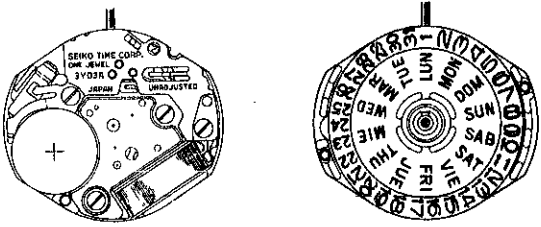


# PARTS CATALOGUE/ TECHNICAL GUIDE

## Cal. 3Y02A, 3Y03A, 3Y09A

### [SPECIFICATIONS]

		Cal. No.	3Y02A	3Y03A	3Y09A
Item					
Movement					
			The illustrations refer to Cal. 3Y03A.		(x 1.0)
Movement size	Outside diameter	$\phi$ 17.6 mm 15.3 mm between 3 o'clock and 9 o'clock sides			
	Casing diameter	$\phi$ 17.1 mm 15.3 mm between 3 o'clock and 9 o'clock sides			
	Height	2.6 mm	2.8 mm	2.6 mm	
Time indication		3 hands			2 hands
Driving system		Step motor (Load compensated driving pulse type)			
Additional mechanism	Day	—	✓	—	
	Date	✓	✓	✓	
	Instant calendar 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			

# PARTS CATALOGUE

Cal. 3Y02A, 3Y03A, 3Y09A

Disassembling procedures Figs. : ① → ③⑧

Reassembling procedures Figs. : ③⑧ → ①

### Lubricating: Types of oil

● Moebius A

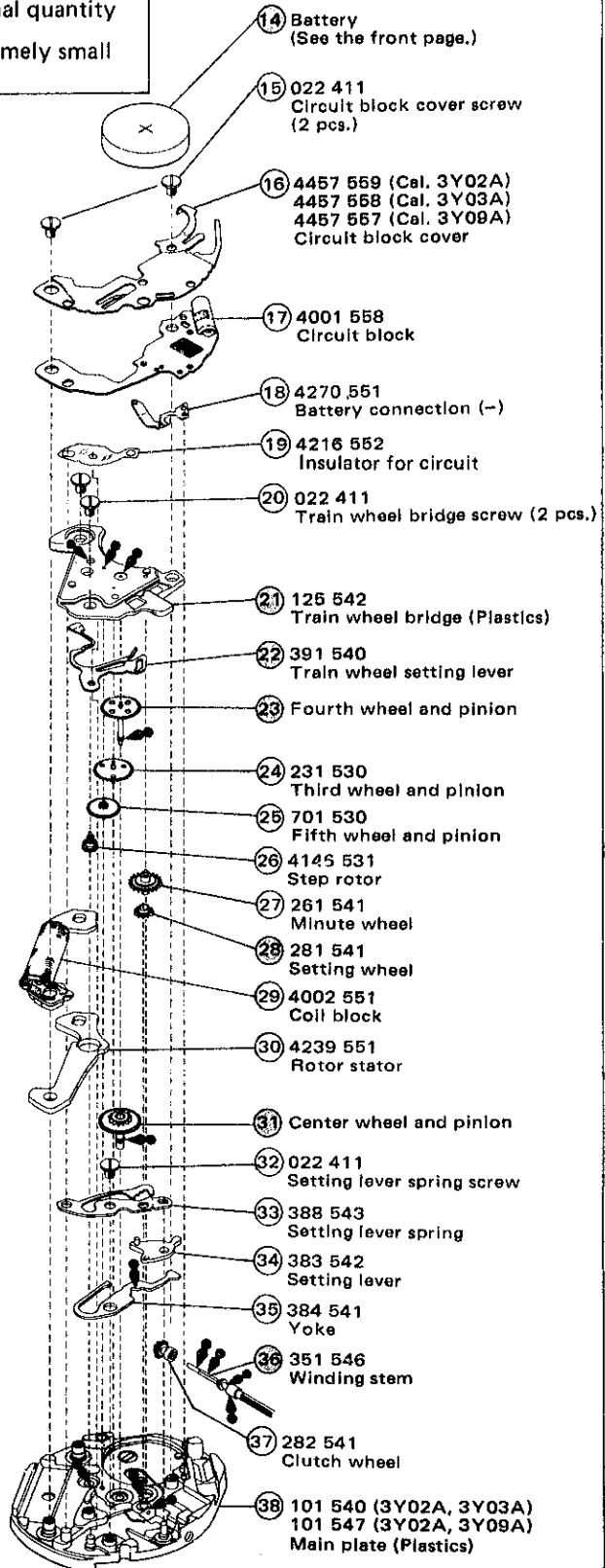
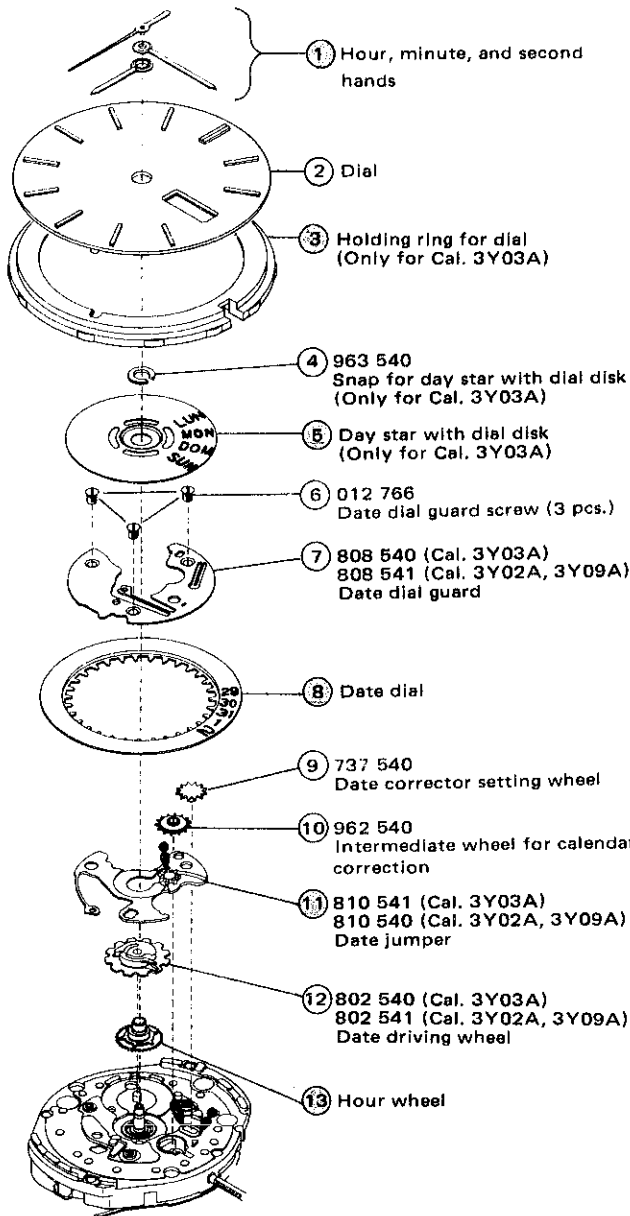
○ SEIKO Watch Oil S-6

### Oil quantity

○ Normal quantity

○ Extremely small

Ex.: Cal. 3Y03A



⊙ ⇨ Please see the remarks on the following pages.

# PARTS CATALOGUE

Cal. 3Y02A, 3Y03A, 3Y09A

**Remarks:**

③ Holding ring for dial 866 553, 866 575 (Only for Cal. 3Y03A)

③⑥ Winding stem 351 546

The types of these parts depend on the design of each model.  
Refer to "SEIKO Casing Parts Catalogue" to choose corresponding parts.

⑤ Day star with dial disk (Only for Cal. 3Y03A)

Part code	Position of crown & calendar	Language	Color of figure	Color of background
470 919	3 o'clock	English ↔ Spanish	Black	White
470 920	3 o'clock	English ↔ French	Black	White

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

⑧ Date dial

Cal. No.	Part code	Position of crown & calendar	Color of figure	Color of background
3Y02A	801 754	3 o'clock	Black	White
	801 807		Black	Gold
3Y03A	801 752	3 o'clock	Black	White
3Y09A	801 756	Crown : 3 o'clock Calendar: 6 o'clock	Black	White
	801 764		Black	Gold

If any other type of date dial is required, please specify ① Cal. No., ② the crown position, ③ the calendar frame position, and ④ Dial No.


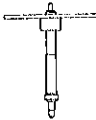



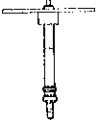


# PARTS CATALOGUE

Cal. 3Y02A, 3Y03A, 3Y09A


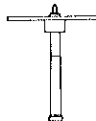


- ⑬ Hour wheel
- ⑳ Fourth wheel and pinion
- ㉑ Center wheel and pinion

**Combination:**


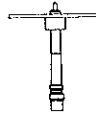

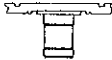
**Cal. 3Y02A**

Type	Center wheel and pinion	Fourth wheel and pinion	Hour wheel	Main plate (Center part)
M	 221 549	 241 549	 271 552	 101 547
L	 221 541	 241 553	 271 553	 101 540

**Cal. 3Y03A**

Type	Center wheel and pinion	Fourth wheel and pinion	Hour wheel	Main plate (Center part)
M	 221 542	 241 542	 271 551	 101 540

**Cal. 3Y09A**

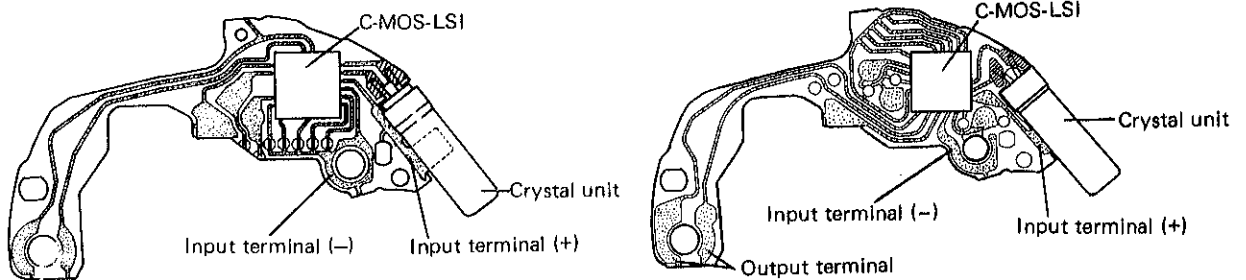
Type	Center wheel and pinion	Fourth wheel and pinion	Hour wheel	Main plate (Center part)
M	 221 549	 241 551	 271 552	 101 547

\* Abbreviation : M . . . . Standard type  
(Movement type) : L . . . . Long type

Parts combination varies, depending on the design of cases.  
Refer to "SEIKO Casing Parts Catalogue".

- The explanation here is only for the particular points of Cal. 3Y02A, 3Y03A, and 3Y09A.
- For the repairing, checking and measuring procedures, refer to the "TECHNICAL GUIDE, GENERAL INSTRUCTION".

## I. STRUCTURE OF THE CIRCUIT BLOCK



## II. REMARKS ON DISASSEMBLING AND REASSEMBLING

Use the universal movement holder for disassembling and reassembling.

### ① Hands

#### • Installing

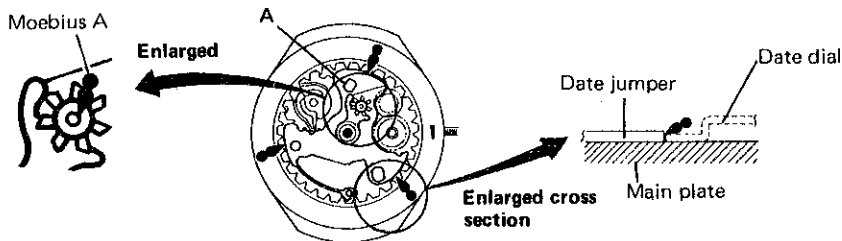
Since a plastic train wheel bridge is used, take out the battery and place the movement directly on a flat metal plate or the like to install the hands.

### ⑪ Date jumper

#### • Installing

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

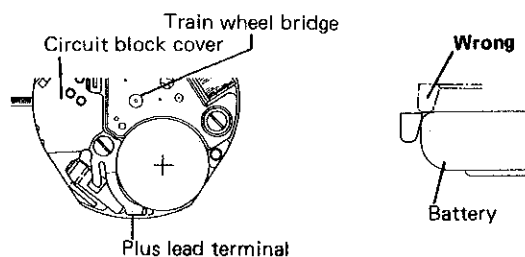
#### • Lubricating



### ⑭ Battery

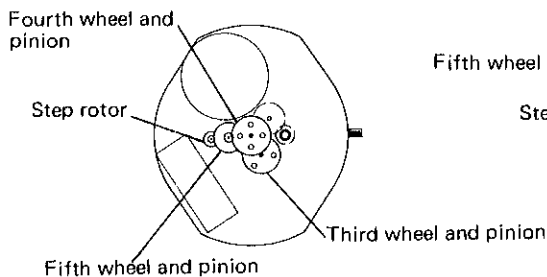
#### • Setting position

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



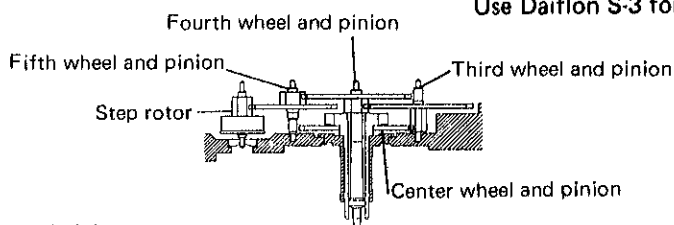
## ②1 Train wheel bridge

### ● Setting position



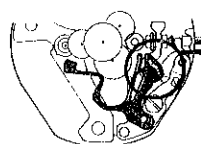
### ● Cleaning

Use Daiflon S-3 for cleaning.



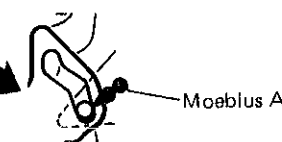
## ②2 Train wheel setting lever

### ● Setting position



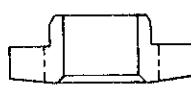
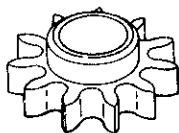
Enlarged

### ● Lubricating



## ②8 Setting wheel

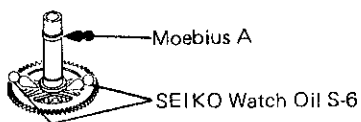
### ● Installing



downward

## ③1 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.