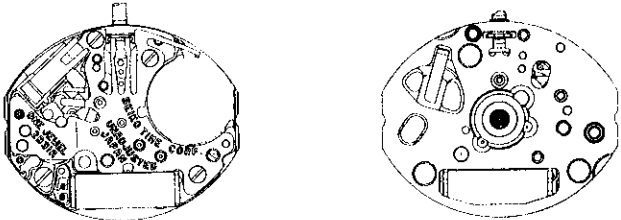


# PARTS CATALOGUE/TECHNICAL GUIDE

## Cal. 2B31A

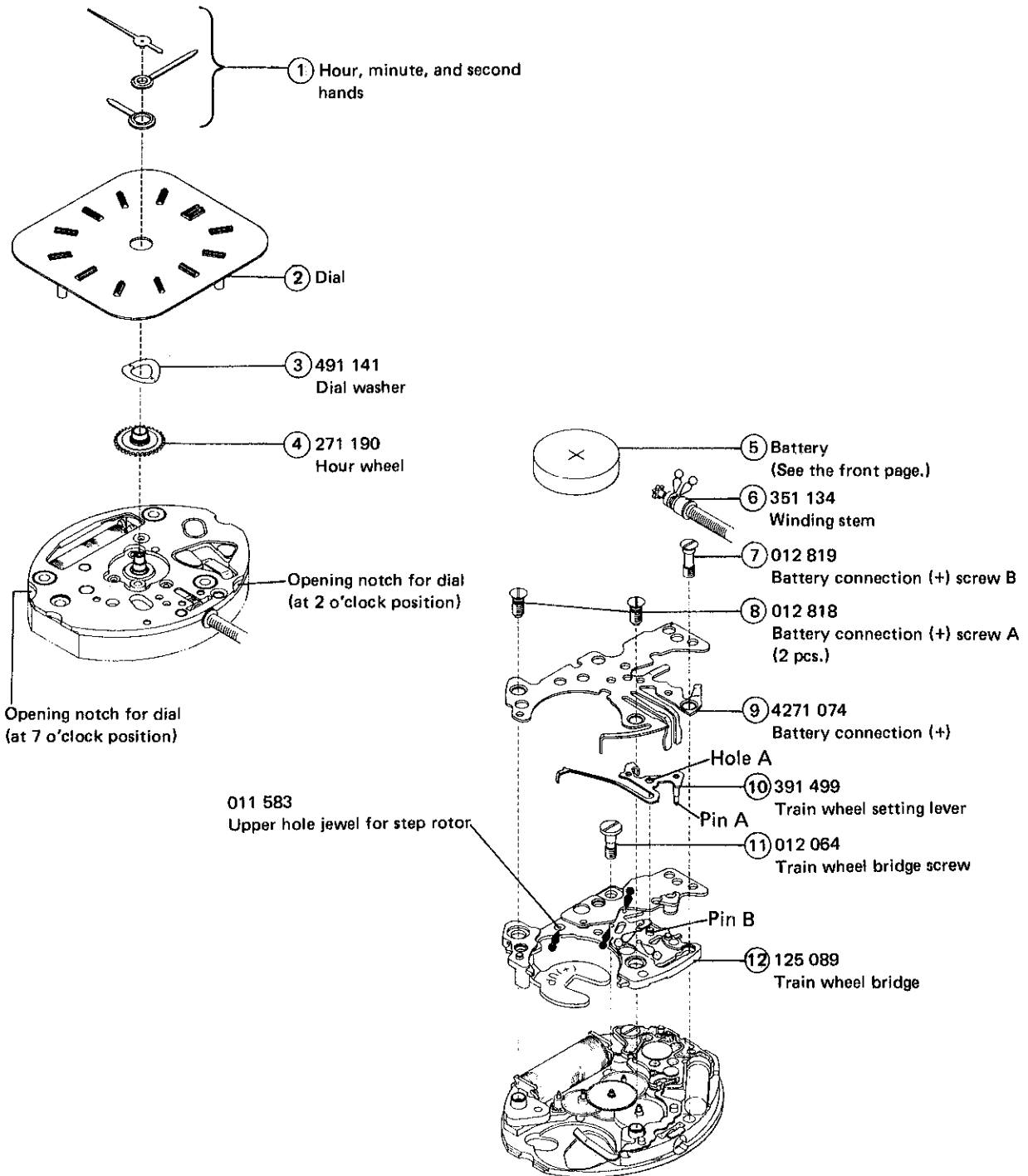
### [SPECIFICATIONS]

Cal. No.		2B31A
Item		
Movement		 <p style="text-align: right;">(x 2.0)</p>
Movement size	Outside diameter	13.0 mm between 3 o'clock and 9 o'clock sides 15.5 mm between 6 o'clock and 12 o'clock sides
	Casing diameter	15.1 mm
	Height	2.4 mm
Time indication		3 hands
Driving system		Step motor (Load compensated driving pulse type)
Additional mechanism		<ul style="list-style-type: none"> <li>• Electronic circuit reset switch</li> <li>• Train wheel setting device</li> </ul>
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 SR521SW, Maxell SR521SW, SONY SR521SW (379) Battery life is approximately 2 years. Voltage: 1.55V
Jewels		1 jewel

Disassembling procedures Figs.: ① → ②⑨  
 Reassembling procedures Figs.: ②⑨ → ①

**Lubricating: Types of oil**      **Oil quantity**

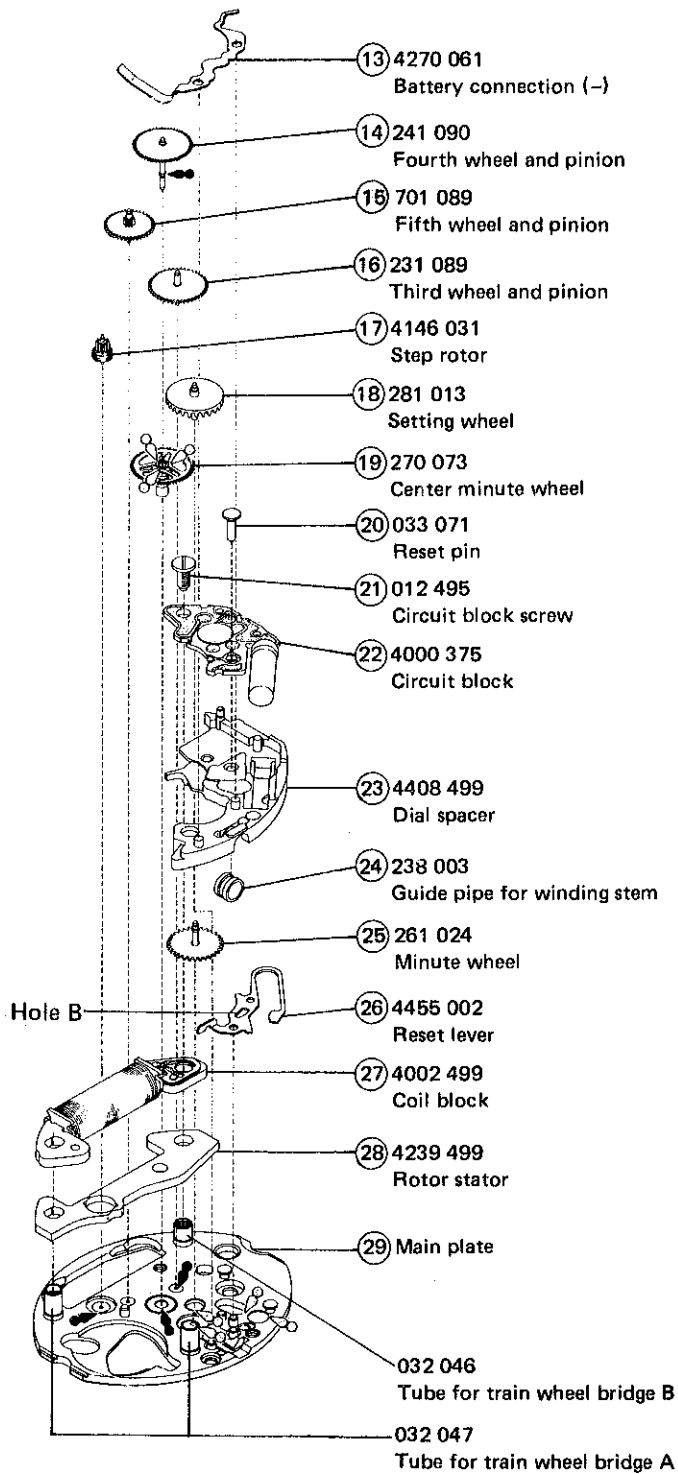
● Moebius A      ○ Normal quantity  
 ○ SEIKO Watch Oil S-6



○ ➡ Please see the remarks on the following pages.

# PARTS CATALOGUE

Cal. 2B31A

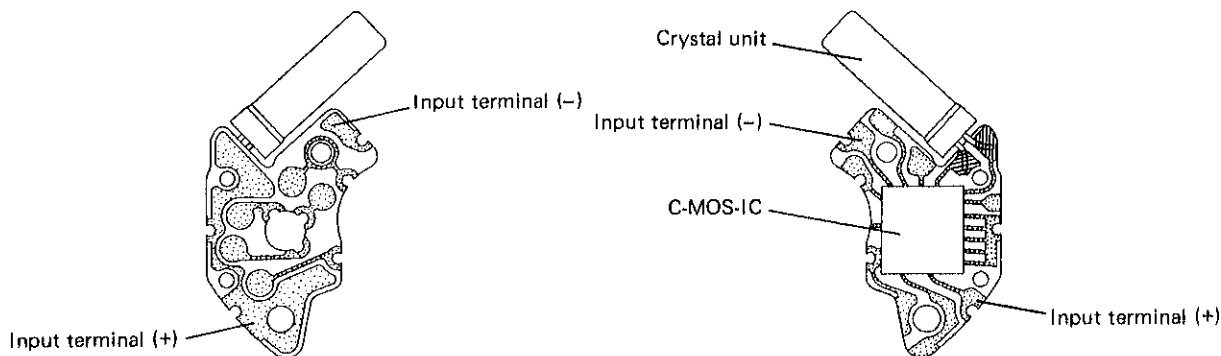


	012 064 Train wheel bridge screw (1 pc.)
	012 495 Circuit block screw (1 pc.)
	012 818 Battery connection (+) screw A (2 pcs.)
	012 819 Battery connection (+) screw B (1 pc.)

Please see the remarks on the following pages.

- The explanation here is only for the particular points of Cal. 2B31A.
- For the repairing, checking and measuring procedures, refer to the "TECHNICAL GUIDE, GENERAL INSTRUCTION".

## I. STRUCTURE OF THE CIRCUIT BLOCK

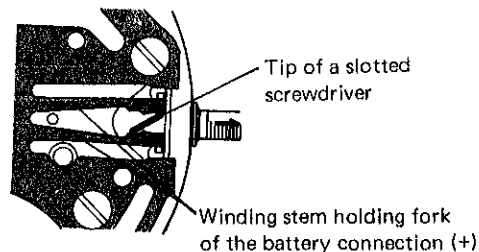


## II. REMARKS ON DISASSEMBLING AND REASSEMBLING

Use the universal movement holder for disassembling and reassembling.

### • How to remove the winding stem

Using a slotted screwdriver with a little wider tip, twist it alternately right and left as shown by the arrows in the illustration on the right in order to spread out the winding stem holding fork of the battery connection (+), and pull out the winding stem.



### ① Hands

#### • Remarks on installing

When installing the hands, place the movement on a flat metal plate or the like.

### ② Dial

#### • How to remove

The dial is fixed to the dial spacer with two dial legs.

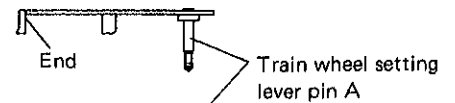
Insert the tip of a slotted screwdriver into the opening notch for dial at 2 o'clock and 7 o'clock positions and remove the dial by prying it up alternately at both positions.

## ⑩ Train wheel setting lever

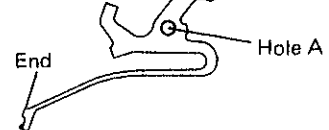
### • How to set the train wheel setting lever

- 1) Set the hole A of the train wheel setting lever over the pin B of the train wheel bridge.
- 2) Set the train wheel setting lever pin A into the hole B of the reset lever.
- 3) Hang the end of the train wheel setting lever on the train wheel bridge.

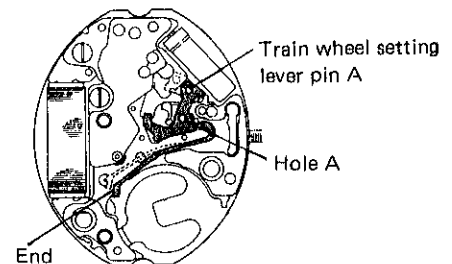
[Side view]



[Top view]



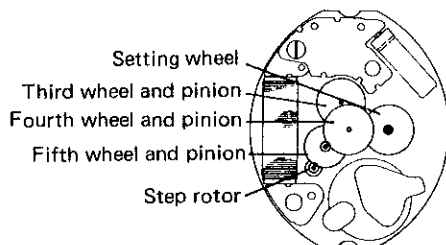
### • Setting position



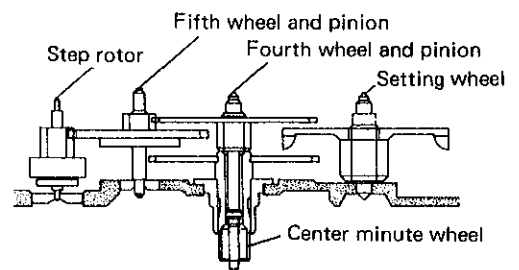
## ⑫ Train wheel bridge

### • Setting position

[Top view]



[Side view]



## ⑮ Fifth wheel and pinion

The fifth wheel and pinion is made of plastic. Be careful not to damage its wheel, pinion, and axle.

## III. VALUE CHECKING

### • Coil block resistance

3.0KΩ ~ 3.4KΩ

### • Current consumption

For the whole of the movement : less than 1.1μA  
 For the circuit block alone : less than 0.6μA