

**SEIKO**

**QUARTZ**

**Cal. 2628A**

**PARTS LIST**

# Cal. 2628A



126 001



131 276



231 261



240 260



241 162



261 260



270 278



271 279



281 261



282 262



317 001



☆354 261



☆354 263



383 260



384 263



387 262



389 260



391 260



436 261



491 141



493 260



495 261



701 260



706 262



4001 270



4002 262



4146 260



4216 260



4219 261



4240 260



4242 262



4270 260



4455 260



011 409



☆SEIKO SB-DL



012 151



012 159



012 459



012 768



017 125



017 131



017 132



017 221



017 222



017 226



017 229



017 936

2/1

# Cal. 2628A

## Characteristics

Two hands time indication (with a small second hand)

Casing diameter :  $\phi$  17.6 mm

Maximum height : 3.7 mm without battery

Jewels : 2 j

Frequency of quartz crystal oscillator : 32,768 Hz (Hz = Hertz . . . . Cycles per second)

Driving system : Step motor (2 poles)

Regulation system : Trimmer condenser

Battery life indicator : Small second hand moves in two-second interval.

PART NO.	PART NAME	PART NO.	PART NAME
126 001	Additional train wheel bridge	4146 260	Step rotor
131 276	Third wheel bridge	4216 260	Insulator for battery
231 261	Third wheel & pinion	4219 261	Insulator for battery connection
240 260	Small second wheel	4240 260	Rotor stator
241 162	Fourth wheel & pinion	4242 262	Plus terminal of battery connection
261 260	Minute wheel	4270 260	Battery connection
270 278	Center minute wheel with cannon pinion (2.62 mm)	4455 260	Reset lever
270 279	Center minute wheel with cannon pinion (2.62 mm, Gold plated)	011 409	Upper hole jewel for step rotor
271 279	Hour wheel	011 409	Lower hole jewel for step rotor
281 261	Setting wheel	012 151	Third wheel bridge screw
282 262	Clutch wheel	012 151	Circuit block screw (A)
317 001	Intermediate small second wheel	012 151	Coil block screw (Screw for plus terminal of battery connection)
☆354 261	Winding stem (13.13 mm)	012 151	Screw for additional train wheel bridge (A)
☆354 263	Winding stem (18.58 mm)	012 159	Circuit block screw (B)
383 260	Setting lever	012 159	Screw for additional train wheel bridge (B)
384 263	Yoke (Clutch lever)	012 459	Case screw
387 262	Minute wheel bridge	012 768	Setting lever axle spring screw
389 260	Setting lever axle spring	012 768	Minute wheel bridge screw
391 260	Train wheel setting lever	017 125	Tube for circuit block (A)
436 261	Lower end-piece for third wheel	017 131	Tube for coil block screw
491 141	Dial washer	017 132	Train wheel setting lever pin
493 260	Hour wheel ring (Gold, 0.03 mm thickness)	017 221	Tube for circuit block (B)
493 261	Hour wheel ring (Silver, 0.05 mm thickness)	017 222	Tube for circuit block (C)
493 262	Hour wheel ring (Gold, 0.07 mm thickness)	017 226	Tube for third wheel bridge screw (A)
495 261	Spacer for third wheel bridge	017 229	Tube for third wheel bridge screw (B)
701 260	Fifth wheel & pinion	017 936	Eccentric dial pin
706 262	Sixth wheel & pinion	☆SEIKO SB-DL	Silver (II) oxide battery
4001 270	Circuit block	☆SEIKO TR726SW	Silver oxide battery
4002 262	Coil block	☆Maxell SR726SW	
		☆U.C.C.397	

## Remarks :

Winding stem.....Refer to the photograph on the front page.

☆354 261 .....Short winding stem (Thread is provided completely on the stem.)

☆354 263 .....Long winding stem (Thread is provided only on the end of the stem.)

## Battery

☆ SEIKO TR726SW

☆ SEIKO SB-DL

☆ Maxell SR726SW

☆ U.C.C.397

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".

Note that SEIKO battery is marked with "SEIZAIKEN" on its (+) side.

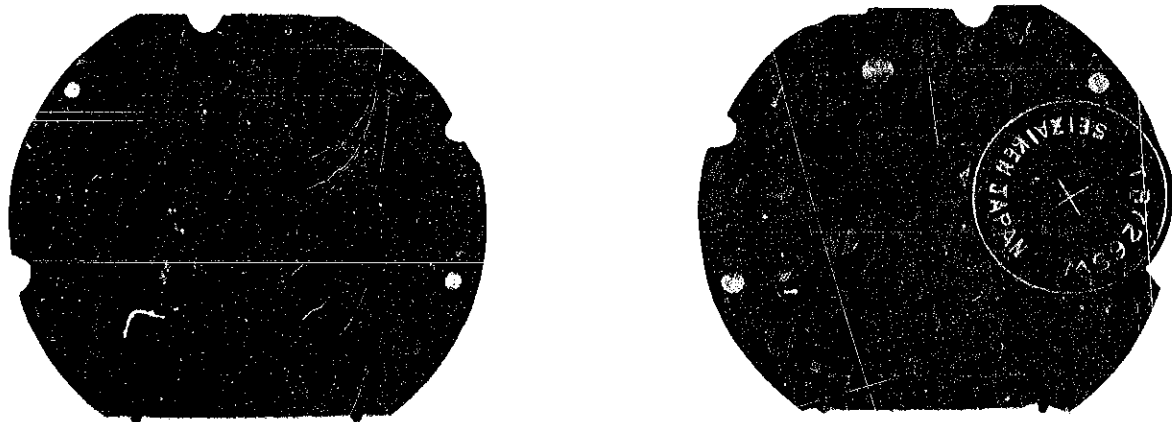
☆⇒ Please see remarks.

Part numbers in light letters are not shown in photos.

# TECHNICAL GUIDE

**SEIKO**  
QUARTZ

CAL. 2628A



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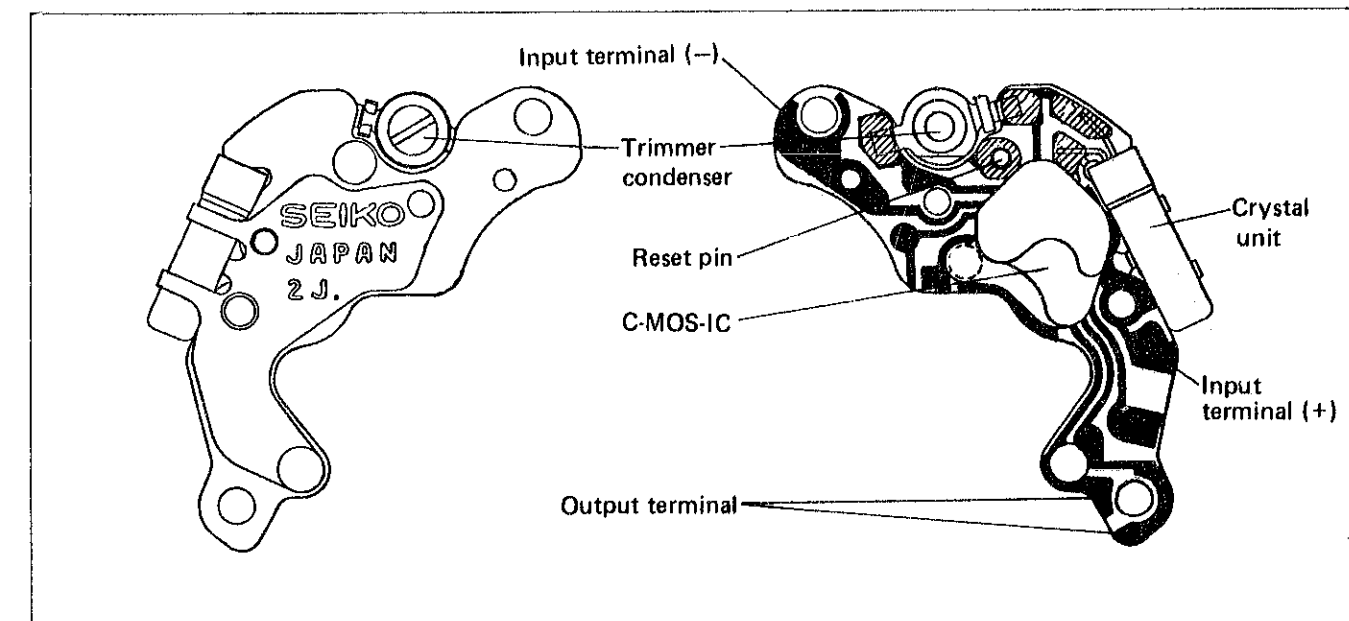
I. SPECIFICATIONS .....	1
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## I. SPECIFICATIONS

Cal. 2628A, provided with a small second hand at the 6 o'clock position, is derived from Cal. 2620A.

Item	Cal. No.	2628A
Time indication		Two hand time indication (with a small second hand)
Additional mechanism		Electronic circuit reset switch Battery life indicator
Loss/gain		Loss/gain at normal temperature range Monthly rate: less than 15 seconds (Annual rate: less than 3 minutes)
Movement size		φ18.0 mm
Casing diameter		φ17.6 mm
Height		3.7 mm without battery
Regulation system		Trimmer condenser
Measuring gate by Quartz Tester		Any gate is available.
Battery power		Battery life is approximately 3 years for SEIKO (SEIZAIKEN) TR726SW or SB-DL and 2 years for Maxell SR726SW or U.C.C. 397. Voltage: 1.55V
Jewels		2 jewels

## II. STRUCTURE OF THE CIRCUIT BLOCK



### III. DISASSEMBLING, REASSEMBLING AND LUBRICATING

#### • Disassembling and reassembling

Disassembling procedures Figs. ① ~ ③①  
 Reassembling procedures Figs. ③① ~ ①

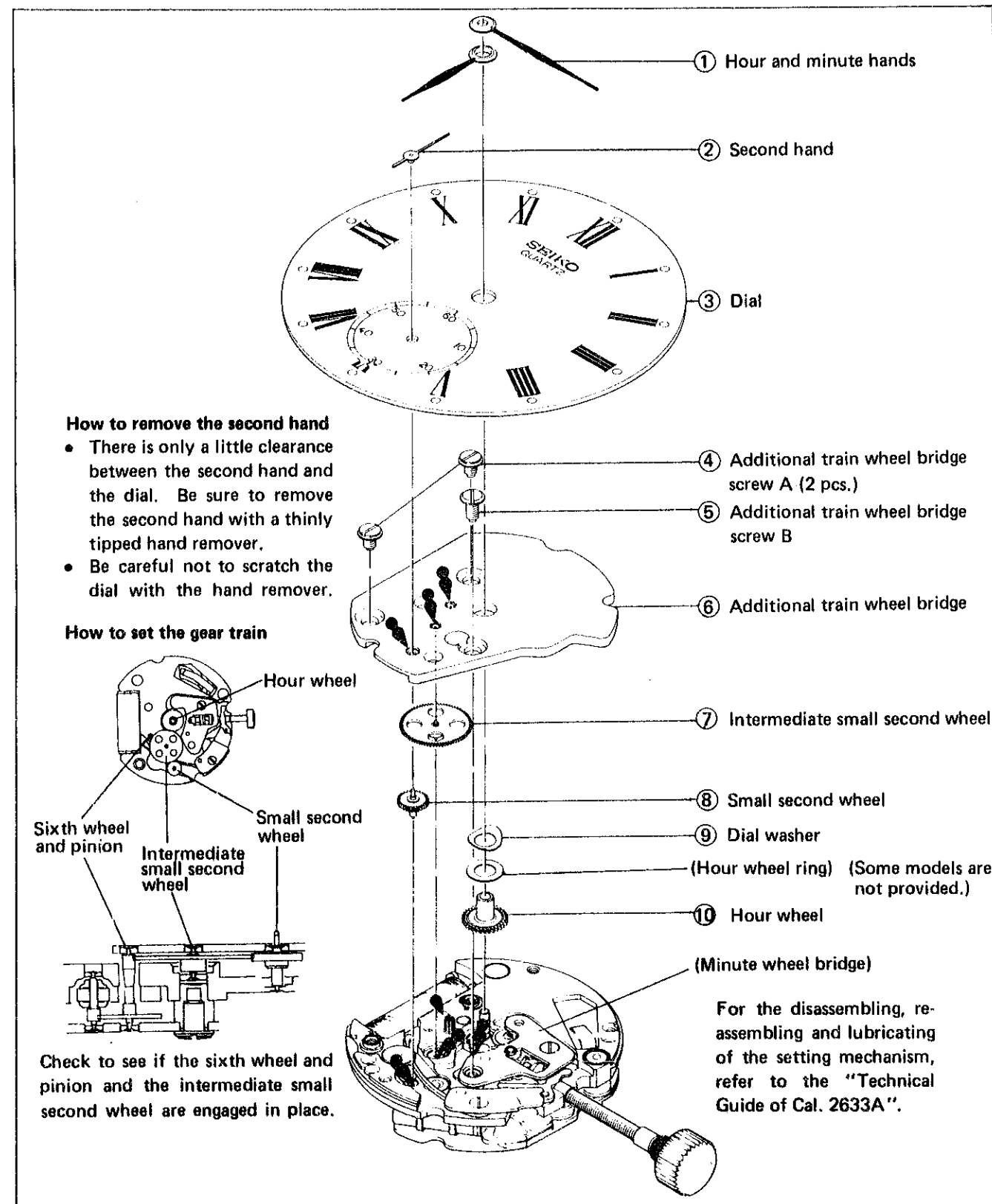
#### • Use the movement holder S-661

#### • Lubricating

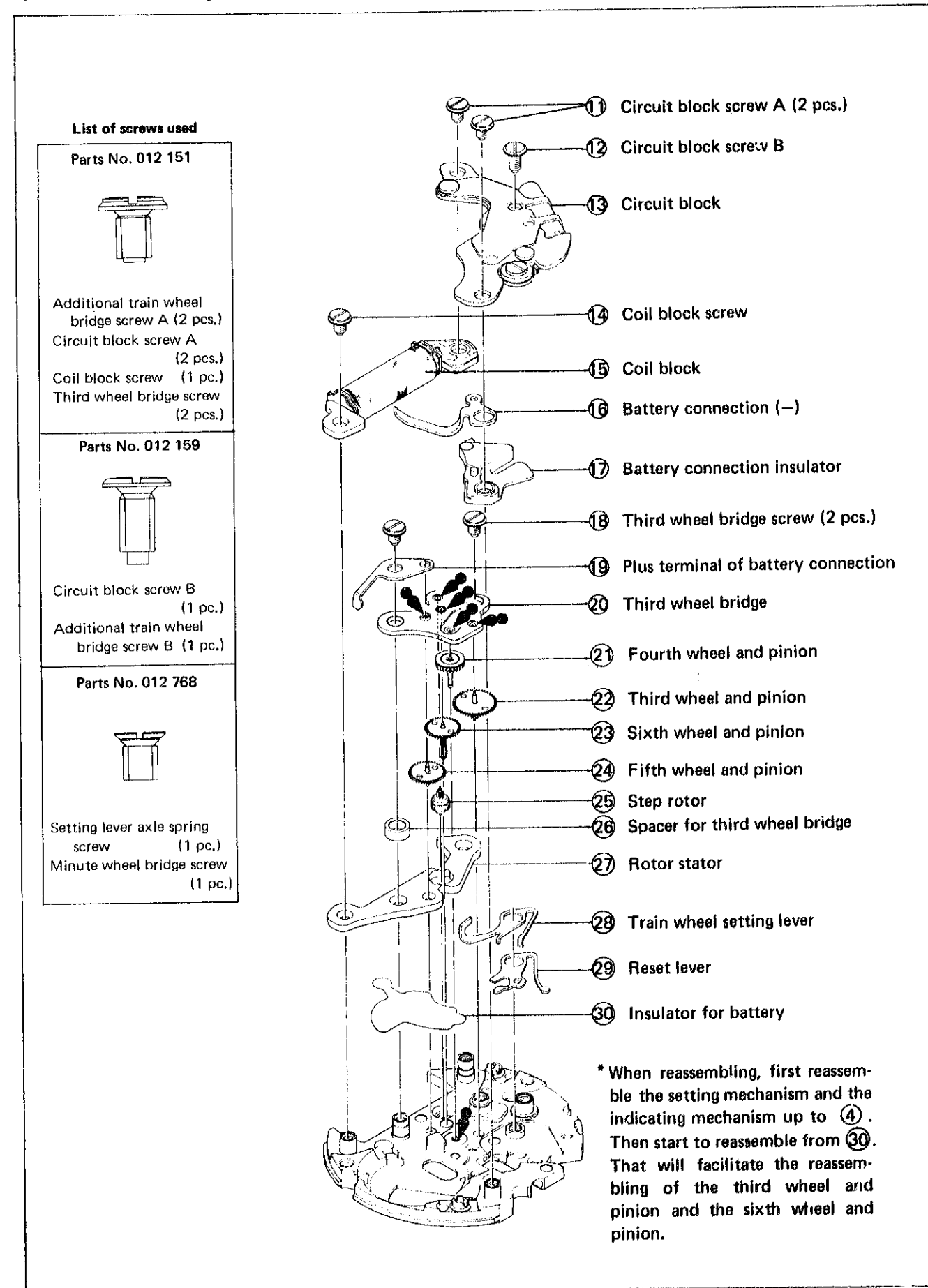
Types of oil  
 ● Moebius A  
 ○ SEIKO Watch Oil S-6

Oil quantity  
 ○ Normal  
 ○ Extremely small

#### 1. Indicating mechanism



#### 2. Electronic circuit and gear train mechanism



#### IV. CHECKING AND ADJUSTMENT

- Refer to the "Technical Guide of the Cal. 2633A" for details.  
The difference of checking and adjustment of Cal. 2633A and Cal. 2628A is as follows.

Procedure	
CHECK COIL BLOCK	<p>Result: 2.0 k<math>\Omega</math> ~ 4.0 k<math>\Omega</math>: Normal Less than 2.0 k<math>\Omega</math> } Defective (Short circuit) More than 4.0 k<math>\Omega</math> } (Broken wire) Replace the coil block with a new one.</p>
CHECK CURRENT CONSUMPTION	<p>Result: Less than 1.2 <math>\mu</math>A: Normal More than 1.2 <math>\mu</math>A: Defective Check the electronic circuit.</p>

All procedures of Disassembling, Reassembling, Checking and Adjustment are completed.