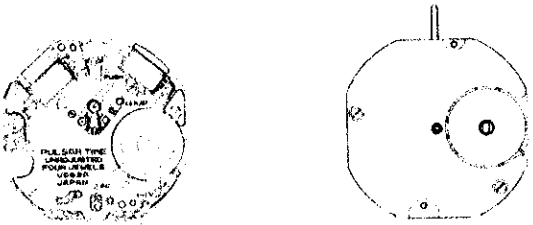


PARTS CATALOGUE/TECHNICAL GUIDE

Cal. V692A

[SPECIFICATIONS]

Cal. No.		V 692A
Item		
Movement		
Movement size	Outside diameter	24.0mm between 6 o'clock and 12 o'clock sides 24.0mm between 3 o'clock and 9 o'clock sides
	Casing diameter	ø25.5mm
	Height	3.0mm (including the battery portion)
Time indication		2 hands and mode indicator
Driving system		Step motor (Fixed-width pulse system, 2 pcs.)
Additional mechanism		<ul style="list-style-type: none"> • Electronic circuit reset switch • Stopwatch (Up to 60 minutes in 1/5 seconds) • Hands 0-reset adjustment function • Demonstration movement of the hands
Loss/gain		Monthly rate at normal temperature range: less than 20 seconds
Regulation system		Trimmer condenser
Measuring gate by quartz tester		Use 60-second gate.
Battery		SEIKO SR920W, Maxell SR920W, SONY SR920W Battery life is approximately 2.5 years. Voltage: 1.55V
Jewels		4 jewels

HATTORI SEIKO CO., LTD.

PARTS CATALOGUE

Cal. V692A

Disassembling procedures Figs. : ① → ③⑧

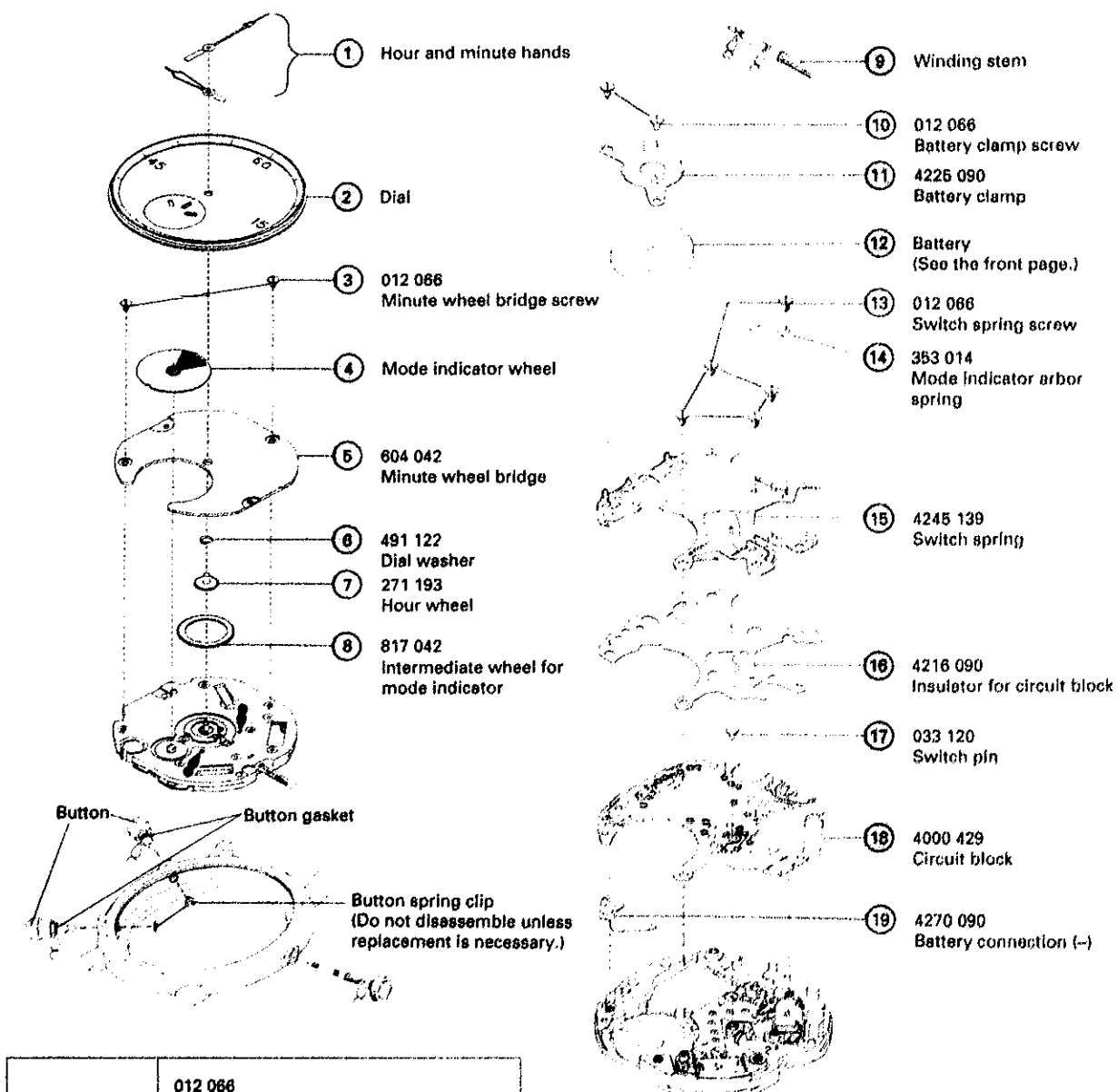
Reassembling procedures Figs. : ③⑧ → ①

Lubricating: Types of oil Oil quantity

○ Silicone oil 500,000 c.s. ○ Normal quantity

● Moebius A

○ SEIKO Watch Oil S-6

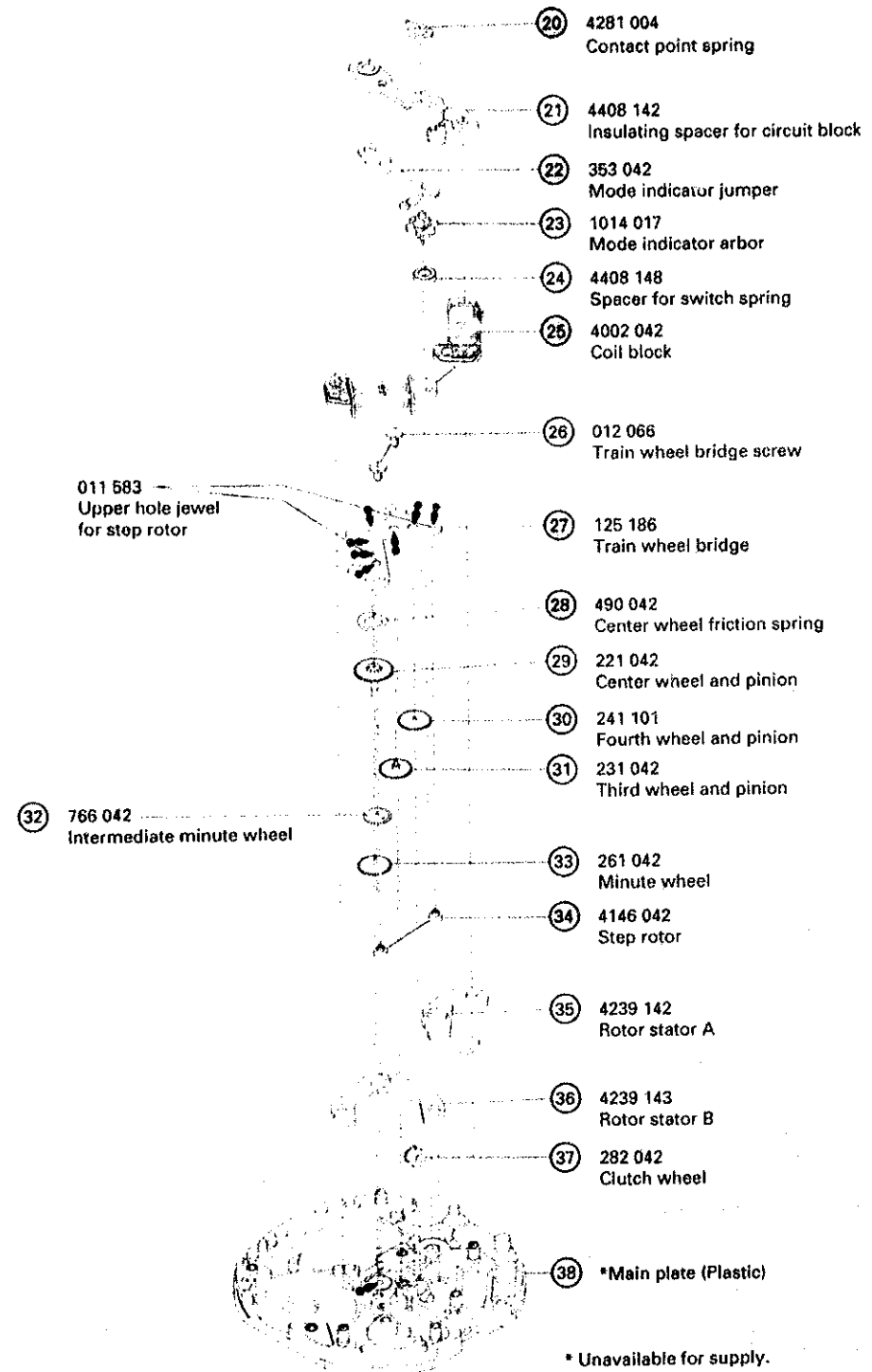


Part No.	Description	Quantity
012 066	• Minute wheel bridge screw	(2 pcs.)
	• Battery clamp screw	(2 pcs.)
	• Switch spring screw	(5 pcs.)
	• Train wheel bridge screw	(2 pcs.)

⊙ → Please see the remarks on the following pages.

PARTS CATALOGUE

Cal. V692A



011 583
Upper hole jewel
for stop rotor

32 766 042
Intermediate minute wheel

20 4281 004
Contact point spring

21 4408 142
Insulating spacer for circuit block

22 353 042
Mode indicator jumper

23 1014 017
Mode indicator arbor

24 4408 148
Spacer for switch spring

25 4002 042
Coil block

26 012 066
Train wheel bridge screw

27 125 186
Train wheel bridge

28 490 042
Center wheel friction spring

29 221 042
Center wheel and pinion

30 241 101
Fourth wheel and pinion

31 231 042
Third wheel and pinion

33 261 042
Minute wheel

34 4146 042
Step rotor

35 4239 142
Rotor stator A

36 4239 143
Rotor stator B

37 282 042
Clutch wheel

38 *Main plate (Plastic)

* Unavailable for supply.

○ ⇨ Please see the remarks on the following pages.

④ Mode indicator wheel
1021 284 Red figure on white background
1021 285 Red figure on black background

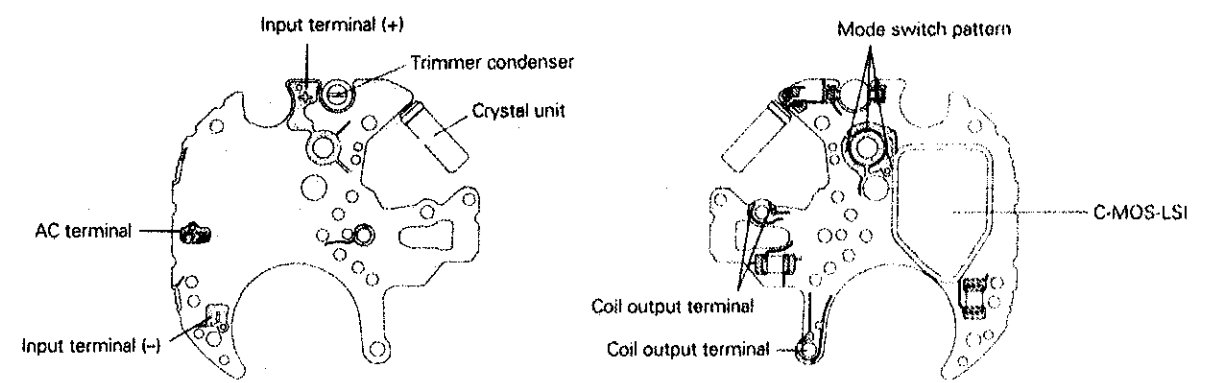
⑨ Winding stem 351 148

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 winding stem.

TECHNICAL GUIDE

Cal. V692A

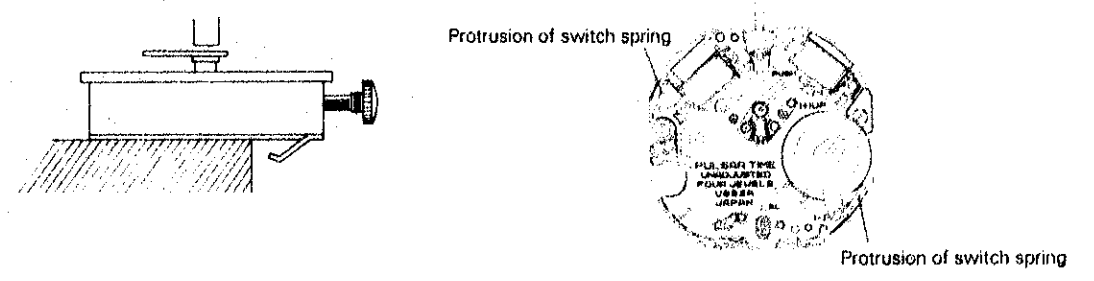
I. STRUCTURE OF THE CIRCUIT BLOCK



II. REMARKS ON DISASSEMBLING AND REASSEMBLING

① Hands

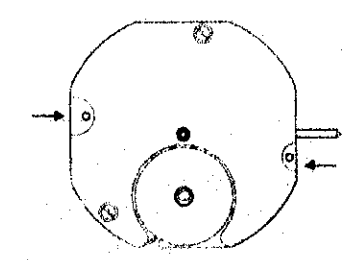
Since a plastic main plate is used, place the movement on a flat metal plate or the like, and then install the hands at the 12 o'clock position. In doing so, check that the two protrusions of the switch spring are not pressed down as they protrude toward the case back side.



④ Dial

• How to remove

Pry up the dial at the two recessed parts indicated in the illustration using a screwdriver.



TECHNICAL GUIDE

Cal. V692A

⑥ Dial washer

⑳ Center wheel friction spring

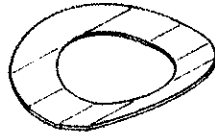
- How to distinguish the two parts

[Dial washer]



- Bent
- With the smaller diameter

[Center wheel friction spring]

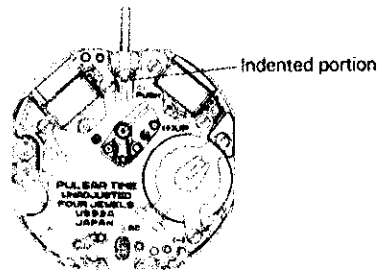


- Bent
- With the larger diameter

⑨ Winding stem

- How to remove

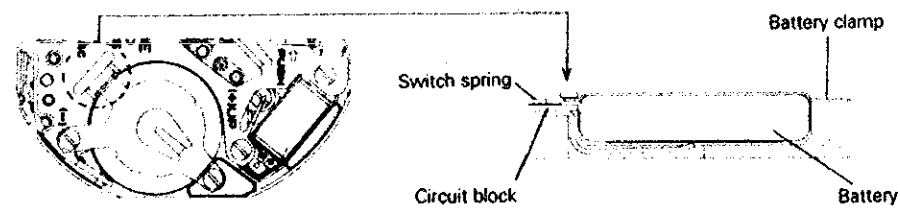
Remove the winding stem while pushing the indented portion of the switch spring (marked with " ← PUSH").



⑪ Battery clamp

- How to install

Slip the tip of the battery clamp into a gap under the switch spring.



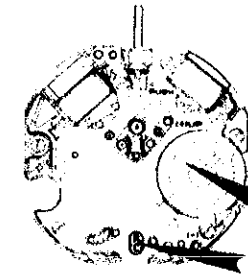
TECHNICAL GUIDE

Cal. V692A

⑫ Battery

- A necessary step after installing the battery

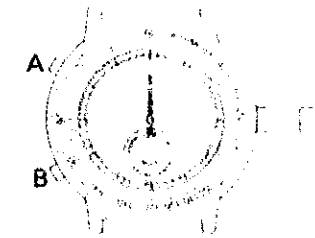
After the battery is replaced with a new one, or after the battery is removed and re-installed following the repairing procedures, be sure to short-circuit the AC terminal of the circuit block and the battery clamp twice with conductive tweezers to reset the circuit. (When checking the current consumption, short-circuit with the power supplied from external source.)



Short-circuit twice with tweezers.

* The circuit can be reset with a complete watch. Follow the procedure below.

- [1] Turn the crown to set the mode indicator to "→ 0 ←".
- [2] Pull out the crown to the first click.
- [3] Keep buttons "A" and "B" pressed at the same time for approximately 3 seconds. When the buttons are released, a beep sounds and the hour and minute hands start moving counterclockwise and clockwise, respectively.
- [4] Press button "A" or "B" once to stop the hands.
- [5] Press button "A" and "B" repeatedly but separately to reset the minute and hour hands respectively to the "0" position (12 o'clock position).
- [6] Turn the crown to set the mode indicator to "TIME". Then, pull out the crown to the first click, and press button "A" and "B" repeatedly but separately to set the minute and hour hands respectively to the desired time.



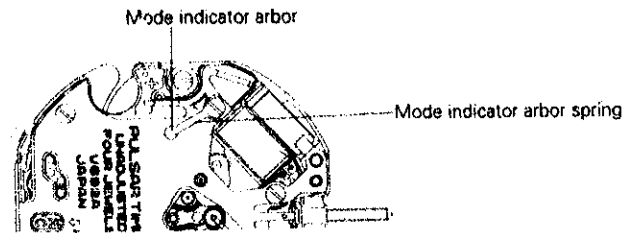
TECHNICAL GUIDE

Cal. V692A

14 Mode indicator arbor spring

• How to install

Set the mode indicator arbor spring right on the mode indicator arbor so that they are in contact with each other.

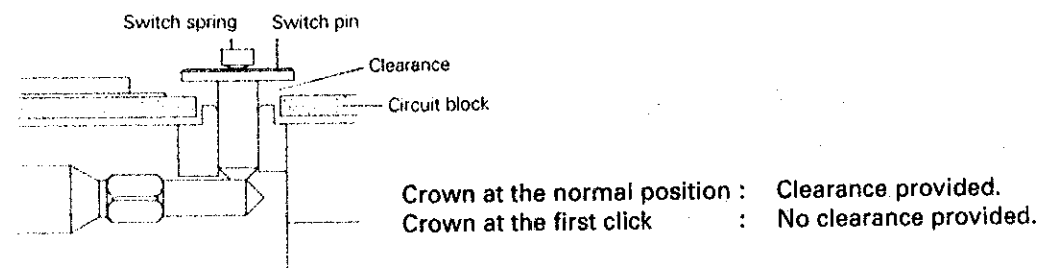


16 Insulator for circuit block

The insulator for circuit block is colorless and transparent. Therefore, make sure that it is installed without fail.

17 Switch pin

If failure of time setting or hands 0-reset adjustment function occurs with the crown at the first click, check if proper clearance is provided between the switch pin and circuit block.

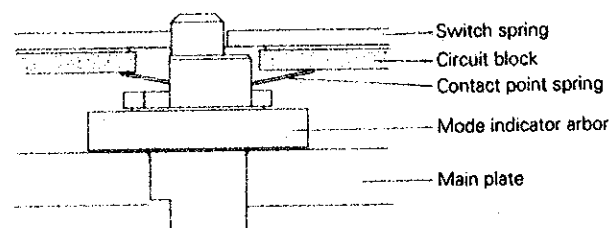


18 Circuit block

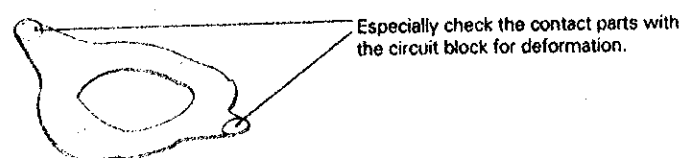
20 Contact point spring

If a malfunction occurs in any of the modes, check the following points.

[1] Check if the following parts are set as shown below.



[2] Check if the contact point spring is deformed.



TECHNICAL GUIDE

Cal. V692A

22 Mode indicator jumper

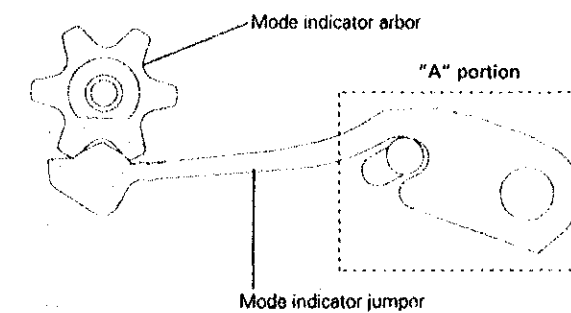
Take care not to deform the mode indicator jumper when disassembling or reassembling it, as extremely high pressure is applied to it.

• How to remove

Release the tip of the mode indicator jumper from the mode indicator arbor, and then lift up "A" portion in the illustration.

• How to install

Reverse the procedures for disassembling.



25 Coil block

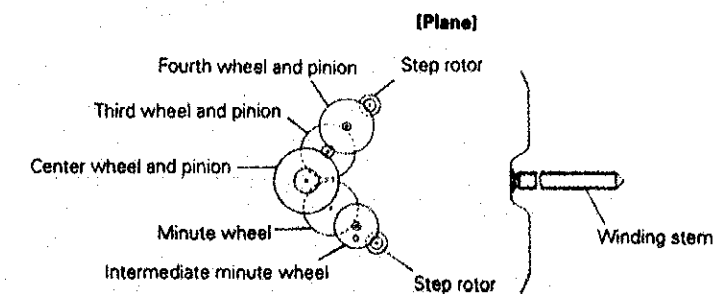
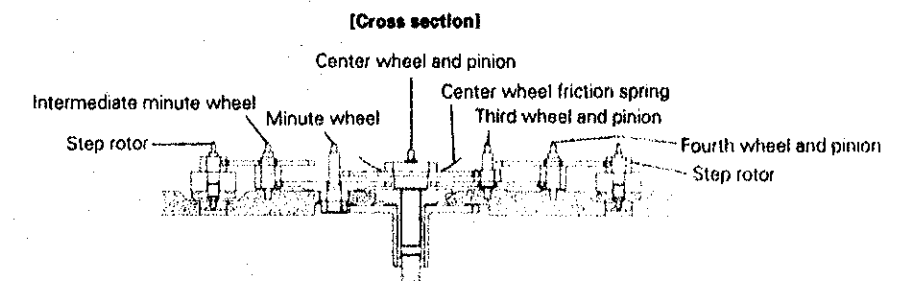
Two coil blocks can be used interchangeably.

27 Train wheel bridge

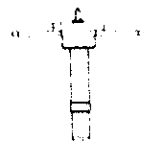


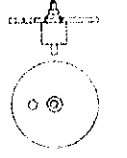
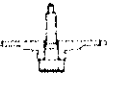
28 Center wheel friction spring

34 Step rotor

• Setting position of the train wheel



- Do not deform the center wheel friction spring, as this will cause the watch to stop or lose.
- Two step rotors can be used interchangeably.
- Distinction of wheels

Name	Center wheel and pinion	Third wheel and pinion	Fourth wheel and pinion	Intermediate minute wheel	Minute wheel
Shape					
Distinctive feature	Tall in height	Short pinion	Long pinion	A hole on wheel	No pivot

III. VALUE CHECKING

- **Coil block resistance**

1.2KΩ ~ 1.6KΩ

- **Measuring time accuracy**

Turn the crown to set the mode indicator to "TIME".

Since the minute hand moves at 12-second intervals, use 60-second gate of the quartz tester to measure accuracy.

* Time accuracy can also be measured with the mode indicator set at "STOPW.". In this case, any gate of the quartz tester can be used to measure the daily rate.

- **Current consumption**

For the whole of the movement : less than 2.5μA
 For the circuit block alone : less than 1.6μA

Note:

Before measuring current consumption, it is necessary to reset the circuit with the power supplied from an external source. Therefore, follow the procedures below to measure the current consumption.

Measure the current consumption for the whole of the movement.
 (Make sure that the battery clamp screw is securely tightened.)

- [1] Install the dial and mode indicator, and turn the crown to set the mode indicator to "TIME".
- [2] Short-circuit the "AC" pattern of the circuit block and the switch spring twice to reset the circuit.
- [3] Press button "A" or "B" once.
- [4] The minute hand starts moving at 12-second intervals. Read the maximum value of the current consumption, and calculate the current consumption per second.
 Note that measurement obtained while the hands are not moving corresponds to the current consumption for the circuit block alone.
 (For details, refer to Chapter 5 "MEASUREMENT" of the "TECHNICAL GUIDE, GENERAL INSTRUCTIONS".)