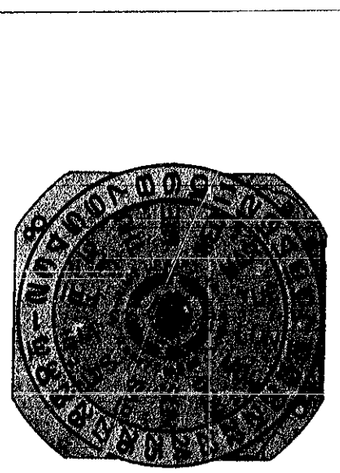
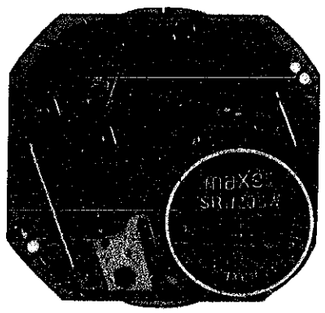
TECHNICAL GUIDE

SEIKO

QUARTZ

CAL.6423A
CAL.6429A



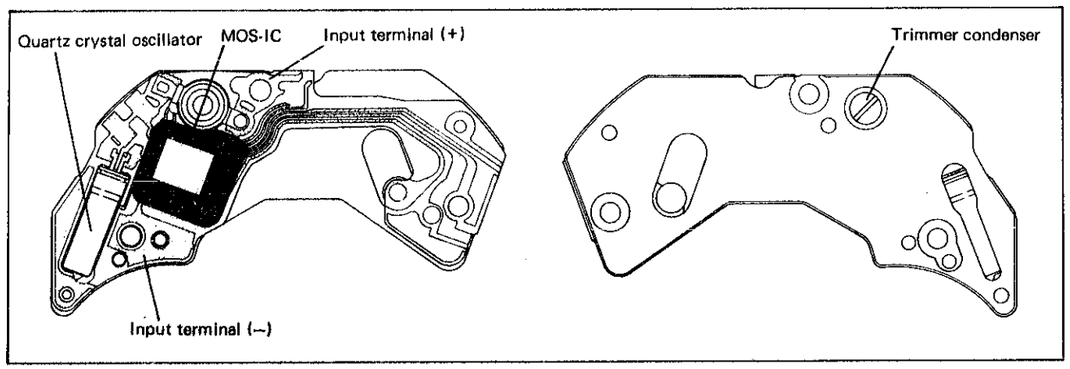


CONTENTS

I. SPECIFICATIONS

Item \ Cal. No.	6423A	6429A
Time indication	3 hands	2 hands
Additional mechanism	Day and date	Date
	Train wheel setting (stops every second)	–
	Battery life indicator	–
	Electronic circuit reset switch	
Loss/gain	Loss/gain at normal temperature range Monthly rate : less than 15 seconds (Annual rate : less than 3 minutes)	
Movement size	ϕ26.0mm (21.3mm between 3 o'clock and 9 o'clock sides, 22.8mm between 12 o'clock and 6 o'clock sides)	
Casing diameter	ϕ24.0mm (20.5mm between 3 o'clock and 9 o'clock sides, 22.5mm between 12 o'clock and 6 o'clock sides)	
Height	2.7mm without battery	
Regulation system	Trimmer condenser	
Measuring gate by Quartz Tester	Any gate is available.	
Battery	SEIKO TR1120SW, Maxell SR1120SW, or U.C.C. 381. Battery life is approximately 2 years. Voltage: 1.55V	
Jewels	7 Jewels	

II. STRUCTURE OF THE CIRCUIT BLOCK



III. DISASSEMBLING, REASSEMBLING AND LUBRICATING

Disassembling procedures Figs.: ① – ㊸

Reassembling procedures Figs.: ㊸ – ①

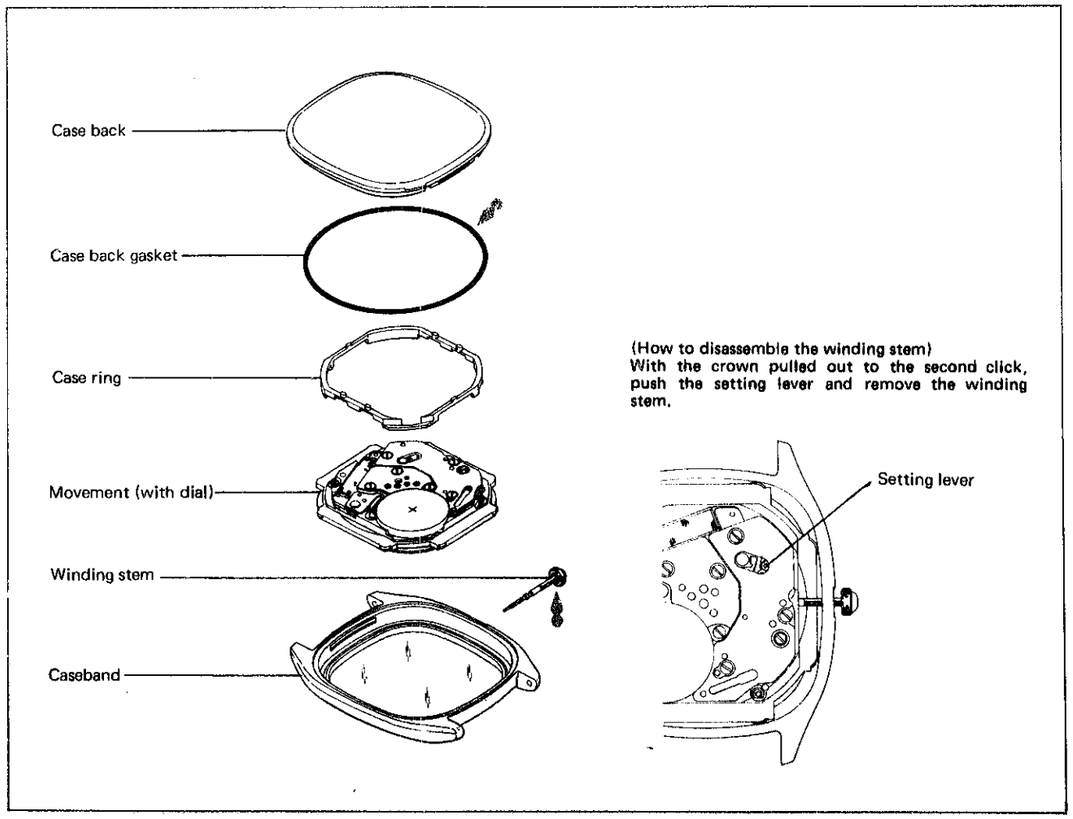
- **Lubricating**

Moebius A
SEIKO Watch Oil S-6
Silicone grease 500,000 c.s.

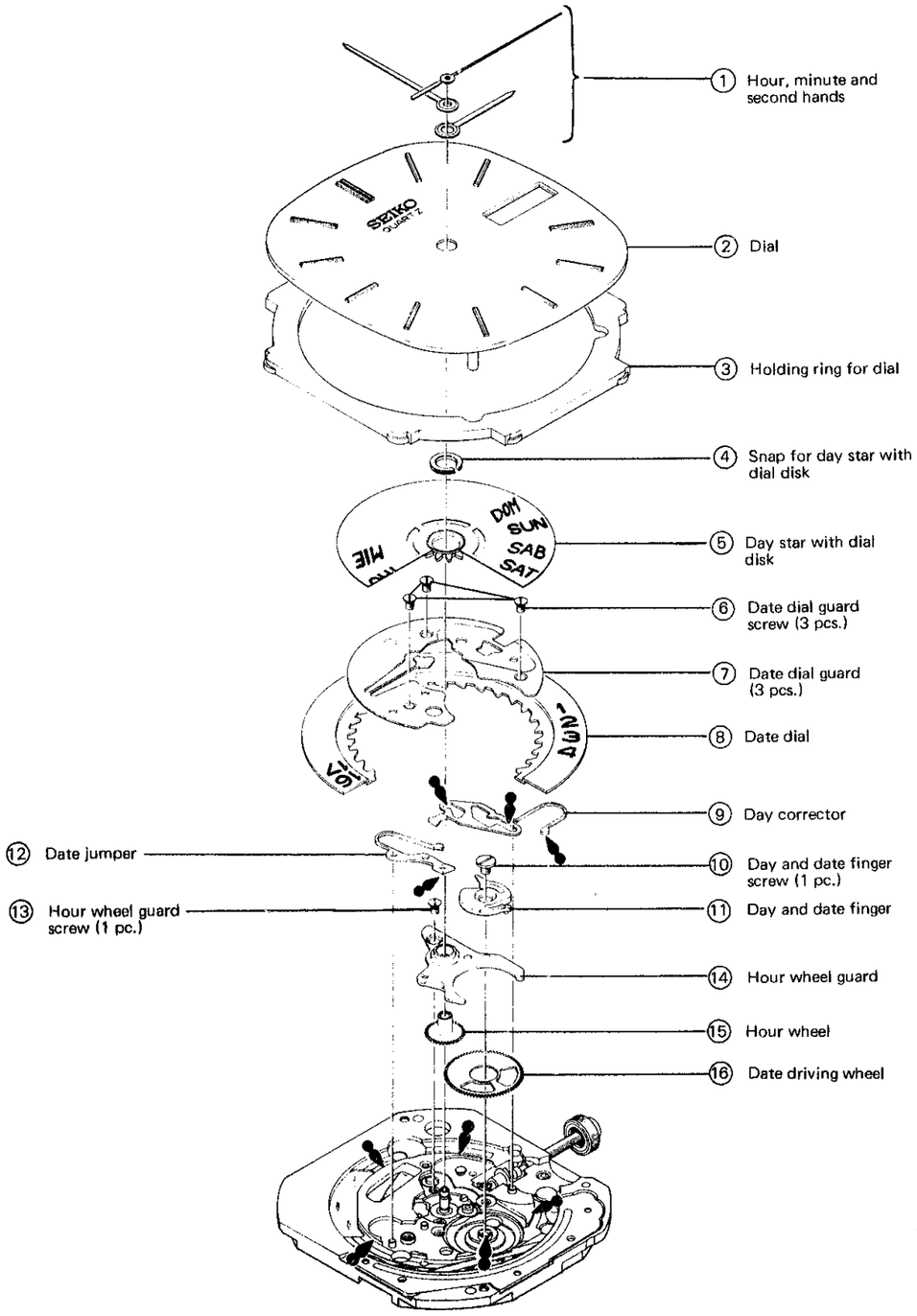
- **Use the movement holder S-667 or S-680 (for 56 series).**
- **List of screws used**

Shape	Parts No.	Name	Shape	Parts No.	Name
	022 411	Train wheel bridge screw Circuit block screw Battery connection (+) screw Setting lever spring screw Day and date finger screw		022 754	Date dial guard screw Hour wheel guard screw

- **Disassemble the movement from the case.**

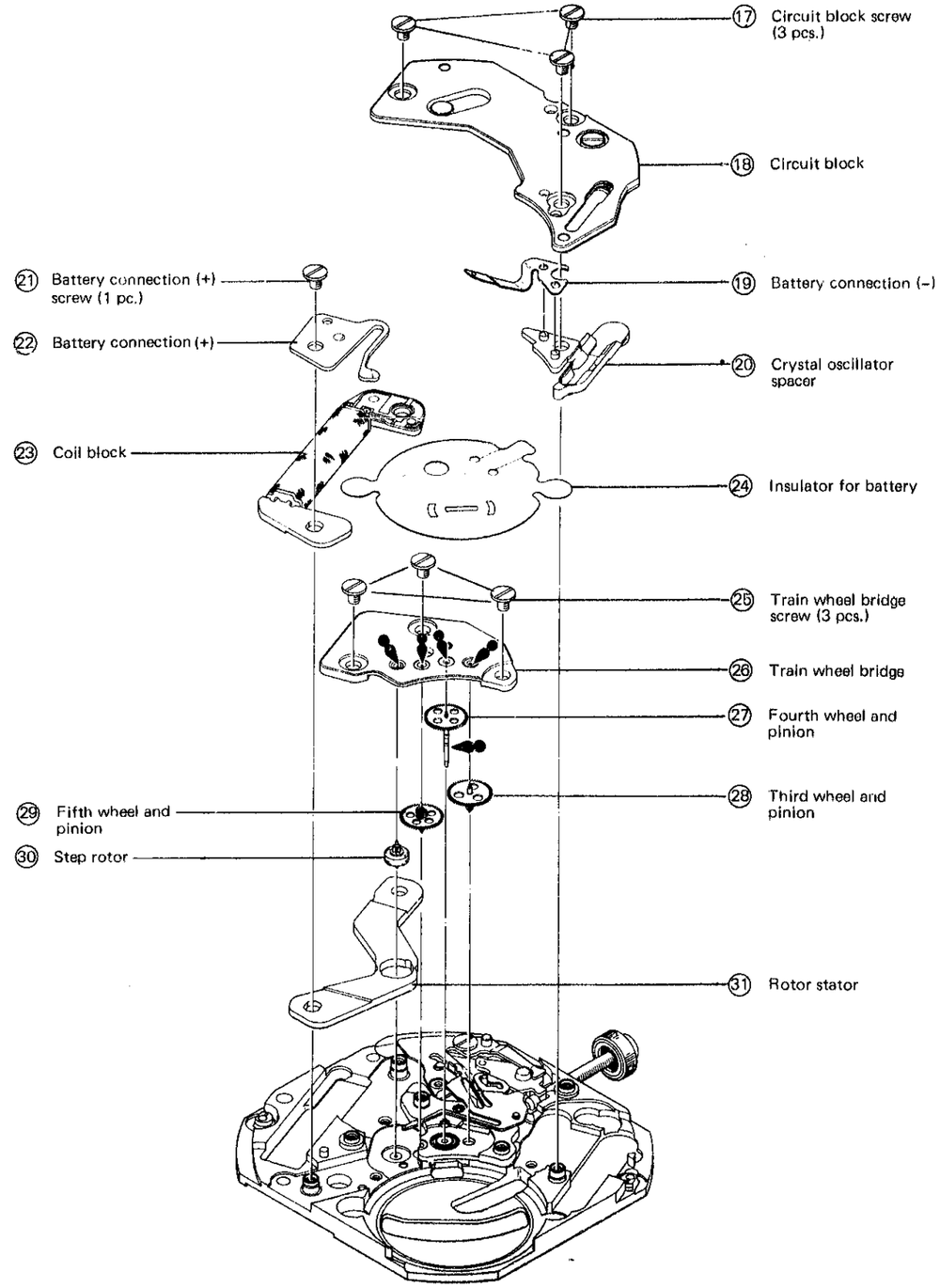


1. Calendar mechanism



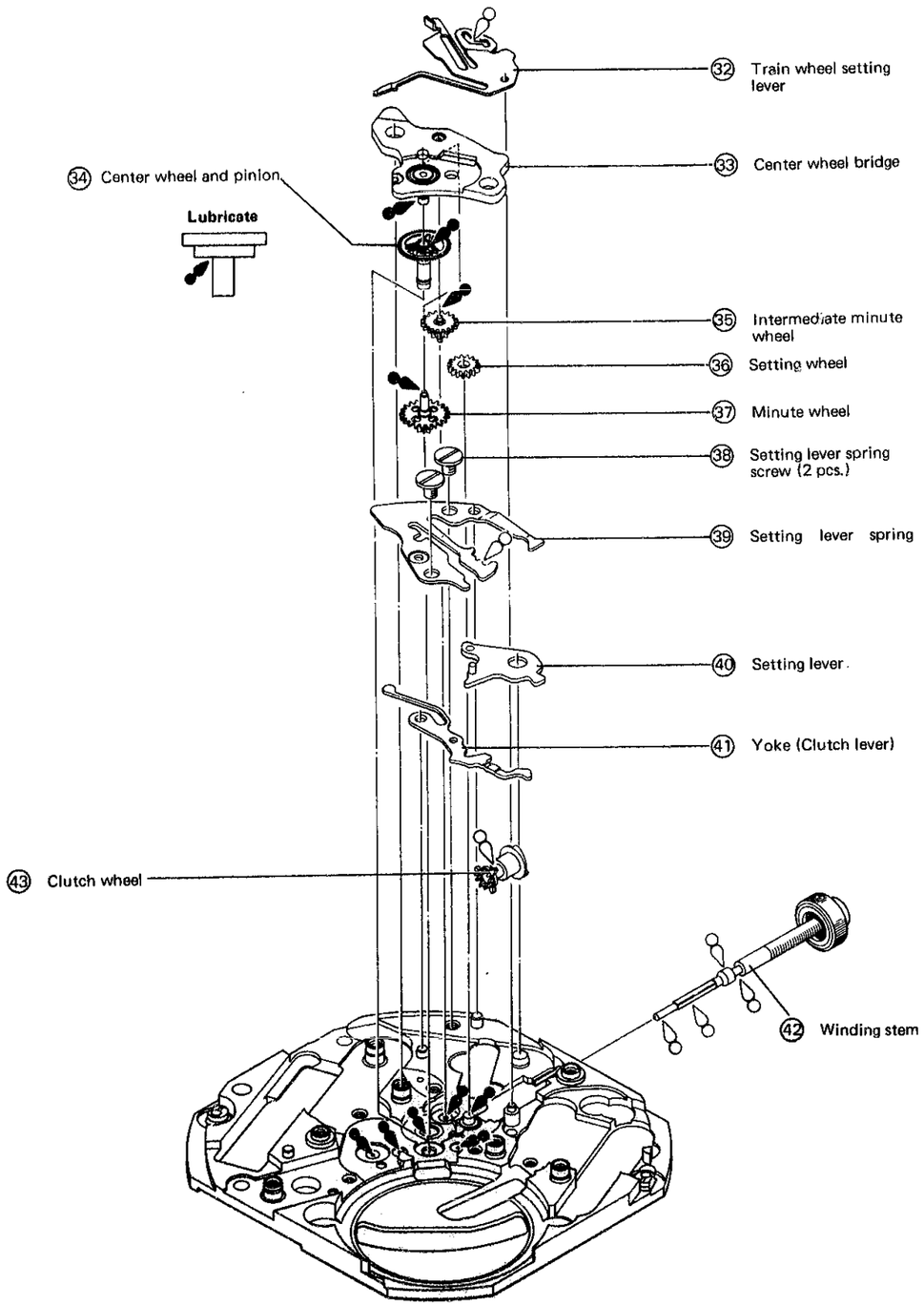
1. Hour, minute and second hands
2. Dial
3. Holding ring for dial
4. Snap for day star with dial disk
5. Day star with dial disk
6. Date dial guard screw (3 pcs.)
7. Date dial guard (3 pcs.)
8. Date dial
9. Day corrector
10. Day and date finger screw (1 pc.)
11. Day and date finger
12. Date jumper
13. Hour wheel guard screw (1 pc.)
14. Hour wheel guard
15. Hour wheel
16. Date driving wheel

2. Circuit block, coil block and gear train



17. Circuit block screw (3 pcs.)
18. Circuit block
19. Battery connection (–)
20. Crystal oscillator spacer
21. Battery connection (+) screw (1 pc.)
22. Battery connection (+)
23. Coil block
24. Insulator for battery
25. Train wheel bridge screw (3 pcs.)
26. Train wheel bridge
27. Fourth wheel and pinion
28. Third wheel and pinion
29. Fifth wheel and pinion
30. Step rotor
31. Rotor stator

3. Setting mechanism



IV. CHECKING AND ADJUSTMENT

- **Refer to the "SEIKO QUARTZ TECHNICAL GUIDE, GENERAL INSTRUCTION for Analogue Watches" for details.**

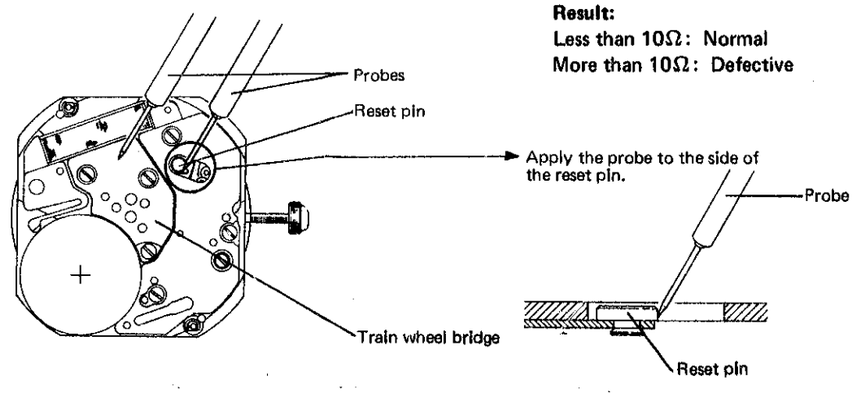
Procedure	
CHECK OUTPUT SIGNAL	**Result:** One second blinking: Normal One second does not blink: Defective
CHECK HAND CONDITION	
CHECK BATTERY VOLTAGE	**Result:** More than 1.5V: Normal Less than 1.5V: Defective
CHECK BATTERY CONDUCTIVITY	
CHECK CIRCUIT BLOCK CONDUCTIVITY	
CHECK COIL BLOCK	**Result:** 1.5kΩ ~ 3.5kΩ: Normal Less than 1.5kΩ or over 3.5kΩ: Defective

CHECK RESET CONDITION AND TRAIN WHEEL SETTING CONDITION

1. Check to see if the second hand stops immediately after the crown is pulled out to the second click and if it starts promptly after one second when the crown is pushed in to the normal position.

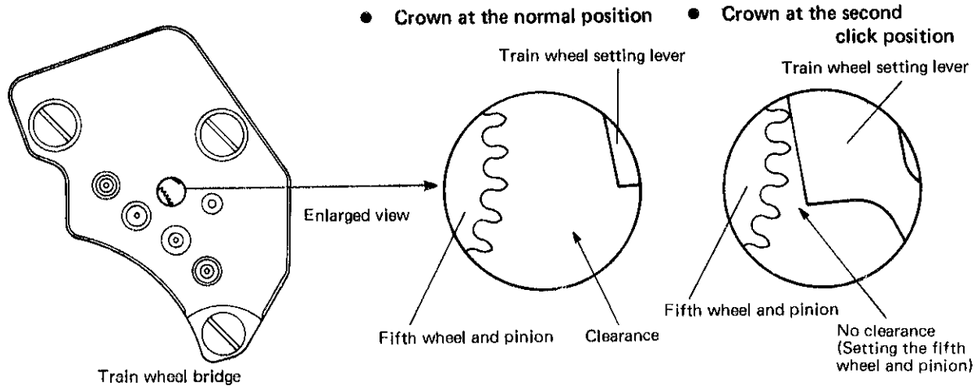
2. With the crown pulled out to the second click, check for the conductivity between the reset pin and the train wheel bridge by using the Volt-ohm-meter.

Result:
Less than 10Ω: Normal
More than 10Ω: Defective



Procedure

3. Check for the clearance between the train wheel setting lever and the fifth wheel and pinion.



CHECK GEAR TRAIN MECHANISM

CHECK SETTING MECHANISM AND CALENDAR MECHANISM

CHECK ACCURACY

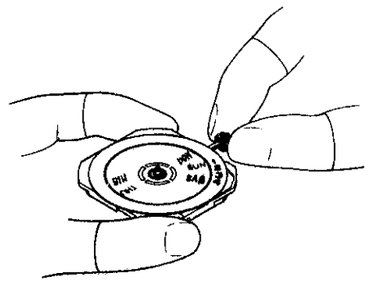
CHECK CURRENT CONSUMPTION

Result:
Less than 2.5μA: Normal
More than 2.5μA: Defective

CHECK WATER RESISTANCE

CHECK APPEARANCE AND FUNCTIONING

When checking the setting of the date dial with the movement, be sure to check it so as not to touch the finger to it. The date dial of this calibre is larger than the main plate. Therefore, if the setting of the date dial is made while holding it with the finger, the parts (hour wheel, etc.) may be damaged.



Be careful not to touch the finger to the date dial.

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