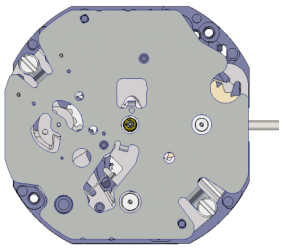
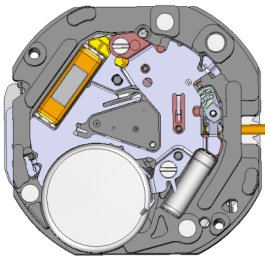
PARTS CATALOGUE / TECHNICAL GUIDE

CAL. 5Y66A/5Y67A

【SPECIFICATIONS】

Item \ Cal.No.		5Y66A	5Y67A
Movement		  (x 1.0)	
Movement size	Outside diameter	φ24.0 ㎜ 21.5 mm between 3 o'clock and 9 o'clock sides 21.5 mm between 6 o'clock and 12 o'clock sides	
	Casing diameter	φ23.3 ㎜ 21.5 mm between 3 o'clock and 9 o'clock sides 21.5 mm between 6 o'clock and 12 o'clock sides	
	Height	3.81 ㎜	
Time indication		3 hands (hour, minute and second hands)	
Driving system		Step motor: Load compensated driving pulse type, 1 piece	
Additional mechanism		● Second hand stop mechanism ● Date correction function (3 o'clock position) ● Instant setting device for day calendar ● Day Calendar (Retrograde day indication) at 9:30 position (5Y66A) at 10:30 position (5Y67A) ● Electronic circuit reset switch	
Loss/gain		Monthly rate within normal temperature range: less than 20 seconds	
Regulation system		None	
Measuring gate by quartz tester		Use 10-second gate.	
Battery	Battery No.	Silver oxide battery (SR920SW)	
	Voltage	1.55V	
	Battery life	Approximately 3 years	
Jewels		None	

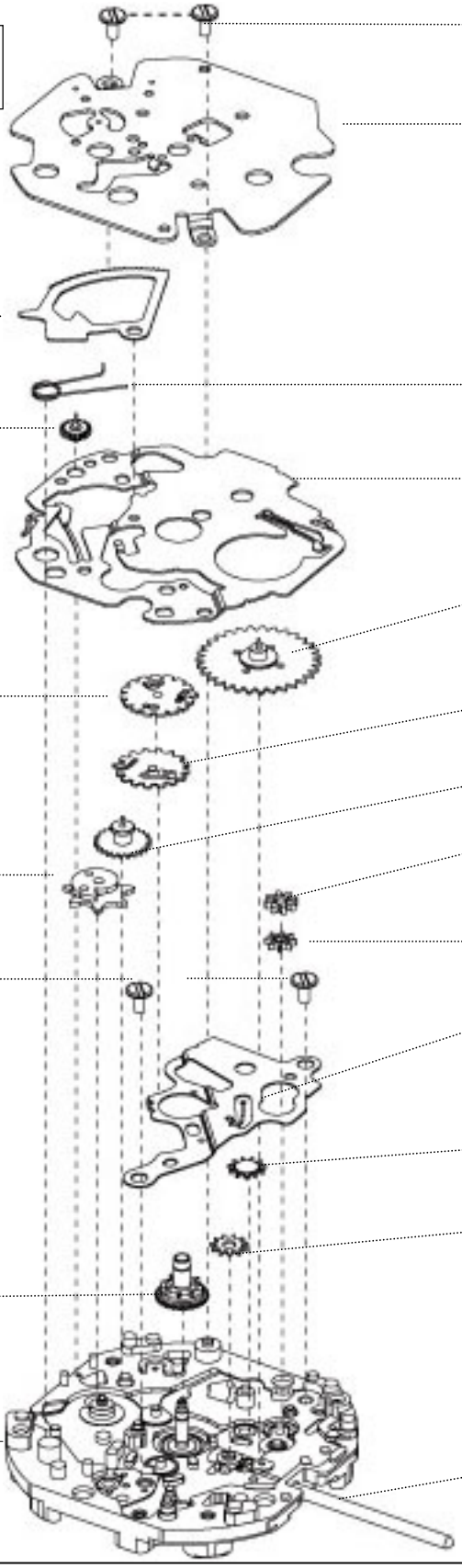
SEIKO WATCH CORPORATION

PARTS CATALOGUE

5Y66A/5Y67A

Disassembling procedures Figs: ① →㊷
Reassembling procedures Figs: ㊷→ ①

The illustrations on pages 2 and 3 are common to Cal. 5Y66A and Cal. 5Y67A, except for the setting position of ⑤ day wheel.



① Screw for Day Operating Lever
0022 230

② Day Operating Lever Guard
4283 507

③ Day Operating Lever
1017 500

④ Spring for Day Operating Lever
1018 501

⑤ Day Wheel
1002 513

⑥ Calendar Mechanism Plate
4283 506

⑦ Date Star
0970 500

⑧ Date Driving Wheel
0802 535

⑨ Day Driving Wheel
0802 570

⑩ 24 Hour Wheel
1002 512

⑪ Intermediate Day Wheel
0817 518

⑫ Date Corrector Setting Wheel
0804 570

⑬ 4th Intermediate Wheel for Calendar
0817 966

⑭ Screw for Hour Wheel Guard
0022 230

⑮ Hour Wheel Guard
0376 503

⑯ 3rd Intermediate Wheel for Calendar
0737 909

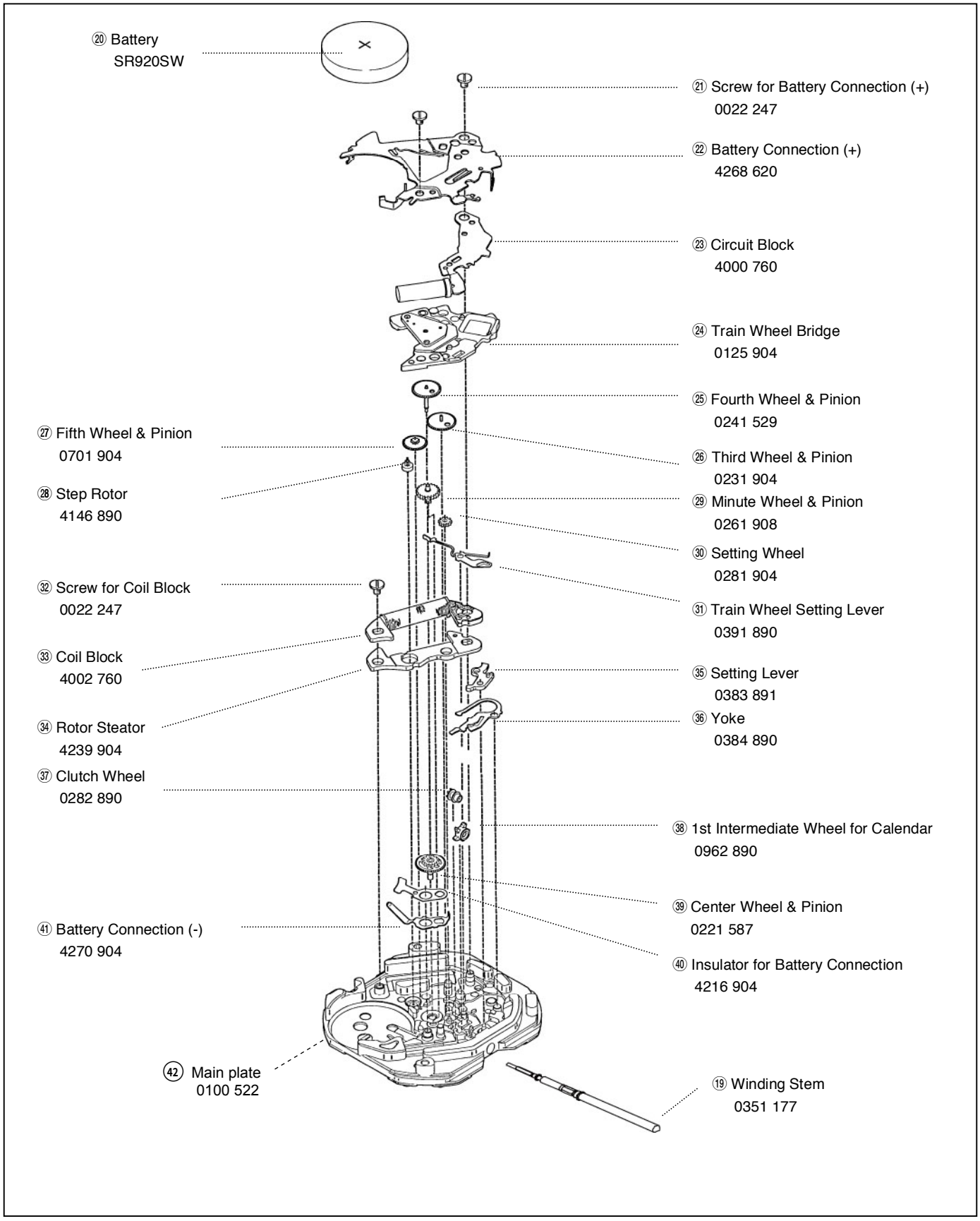
⑰ 2nd Intermediate Wheel for Calendar
0962 909

⑱ Hour Wheel
0271 566

Main plate
0100 522

⑲ Winding Stem
0351 177

PARTS CATALOGUE



TECHNICAL GUIDE

Orientation of the retrograde display may vary depending on the model.

5Y66A

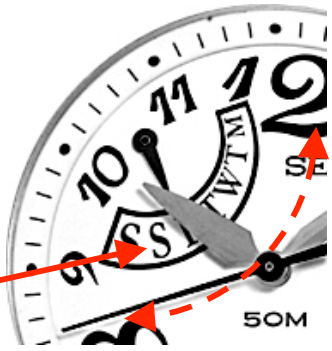
Retrograde day indicator at 9:30 position

Date

Winding stem and crown at 3:00 position.

24 Hour

5Y67A



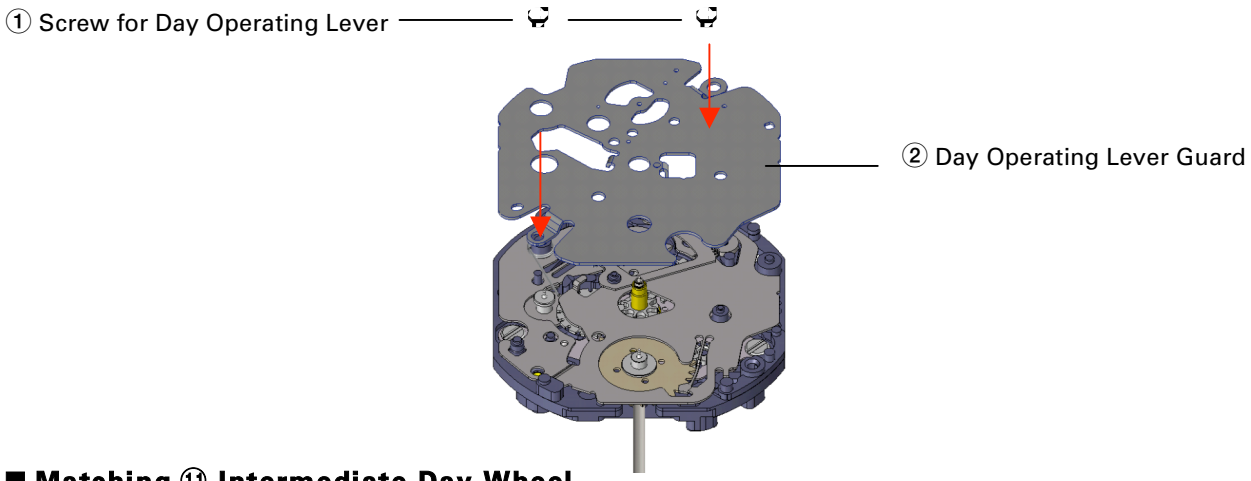
Retrograde day indicator at 10:30 position

TECHNICAL GUIDE

- The explanation here is only for the particular points of the Cal. 5Y66A and 5Y67A.
- For preparing, checking and measuring procedures, refer to the "TECHNICAL GUIDE, GENERAL INSTRUCTIONS."

I. Cautions for Assembly/Disassembly

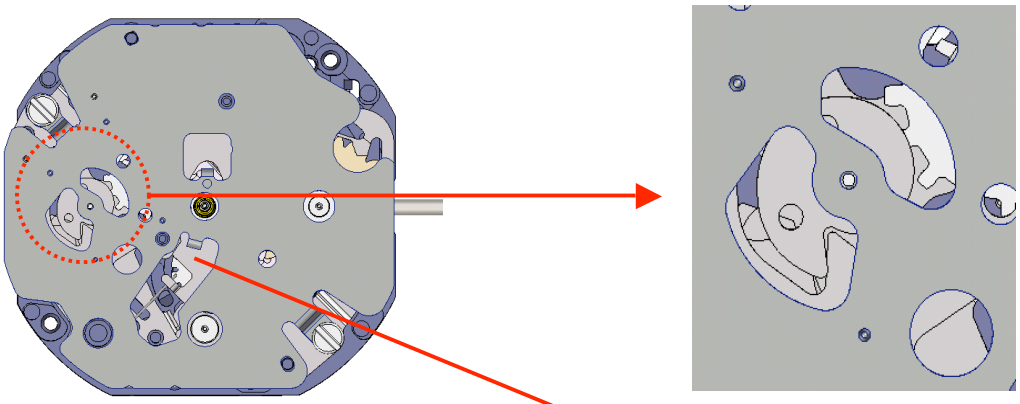
After setting ② Day Operating Lever Guard and fastening ① Screw for Day Operating Lever, match ⑪ Intermediate Day Wheel and latch ④ Spring for Day Operating Lever by following the instructions below.



■ Matching ⑪ Intermediate Day Wheel

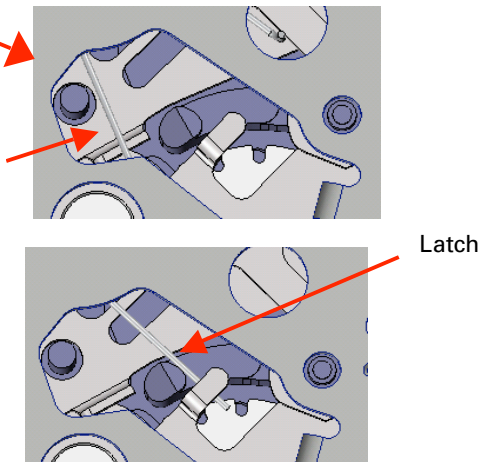
Fit the day hand at the first day position after matching ⑪ Intermediate Day Wheel to the position as shown in the figure below.

<Magnified view of ⑪ Intermediate Day Wheel and area around it>



■ ④ Spring for Day Operating Lever latching

Latch the spring at the position as shown in the figure below.



CAUTION

**Pay attention not to deform or bend the spring.*

TECHNICAL GUIDE

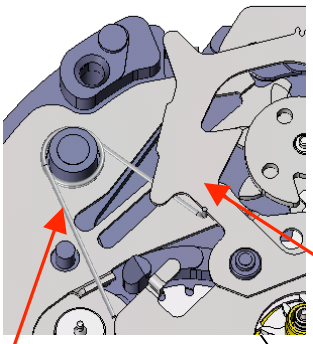
③ Day Operating Lever ~ ④ Spring for Day Operating Lever

Allow ④ Spring for Day Operating Lever to move under the projection part (part indicated by the arrow) of ③ Day Operating Lever as shown in the figure below.

⑤Day Wheel

Pay attention to the difference in the setting position of ⑤ Day Wheel between 5Y66A and 5Y67A.
Set it in the right position as shown in the figure below.

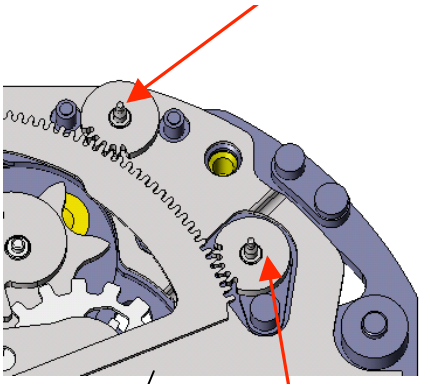
<Magnified view of the projection part of ③ Day Operating Lever>



③ Day Operating Lever

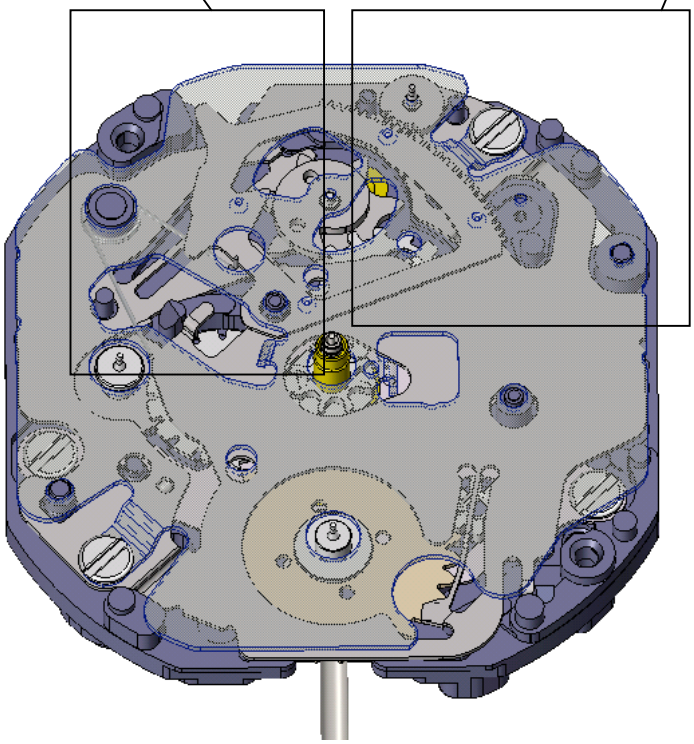
④ Spring for Day Operating Lever

<Magnified view of the setting position of ⑤ Day Wheel>



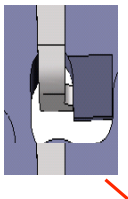
⑤ Day Wheel (5Y66A)

⑤ Day Wheel (5Y67A)

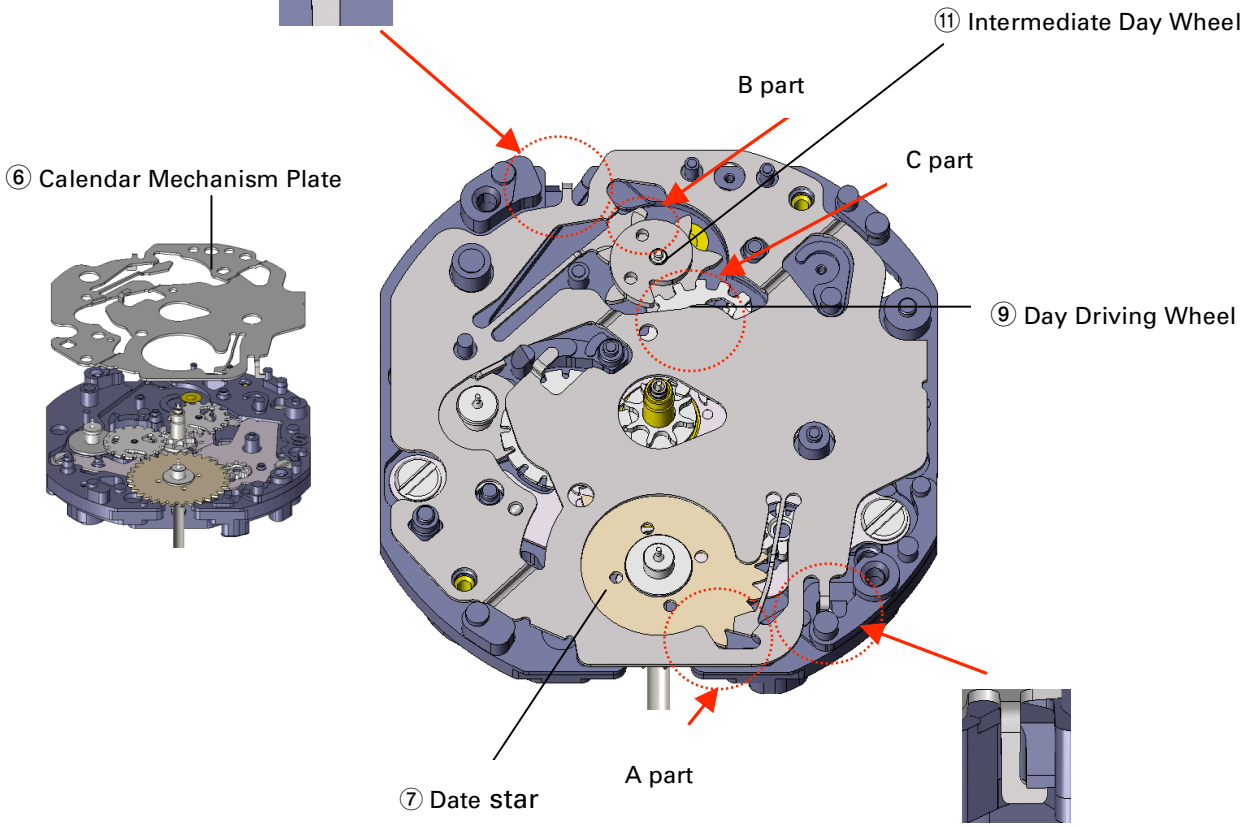


TECHNICAL GUIDE

⑥ Calendar Mechanism Plate



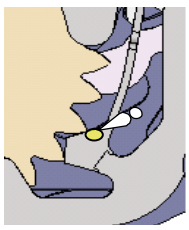
Latch ⑥ Calendar Mechanism Plate to the main plate as shown in the left figure, and fix it.



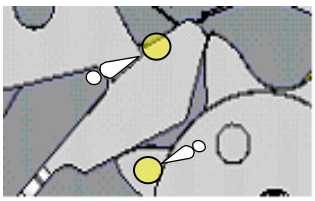
■ Lubricating

After installing ⑥ Calendar Mechanism Plate,
lubricate normal quantity of Moebius A (AO-3) at the Date Jumper.
lubricate normal quantity of Moebius A (AO-3) at the Day Jumper.
lubricate normal quantity of Moebius A (AO-3) between ⑪ Intermediate Day Wheel and ⑬ Day Driving Wheel.

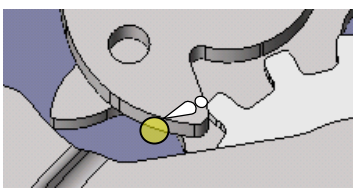
< Magnified view of A part>
Date Jumper part



< Magnified view of B part>
Day Jumper part



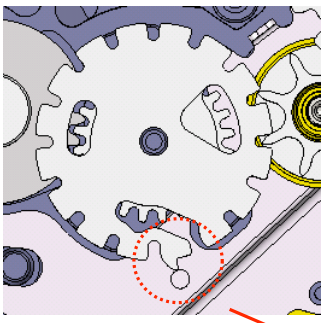
< Magnified view of C part>
Intermediate Day Wheel and Day Driving Wheel



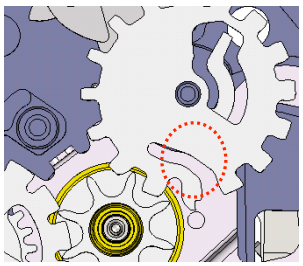
TECHNICAL GUIDE

⑦ Date Star ~ ⑪ Intermediate Day Wheel

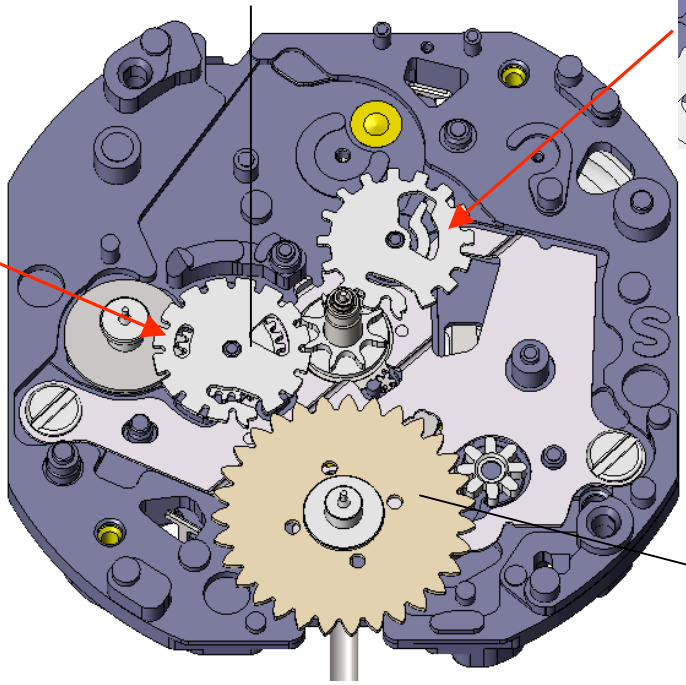
Set in the positions as shown in the figures below.
Fit the pawl end part of ⑧ Date Driving Wheel to the circled part as shown in the figure below (left).
Fit the pawl end part of ⑨ Day Driving Wheel to the circled part as shown in the figure below (right).



<Magnified view of
⑧ Date Driving Wheel>

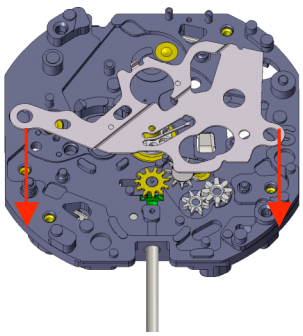


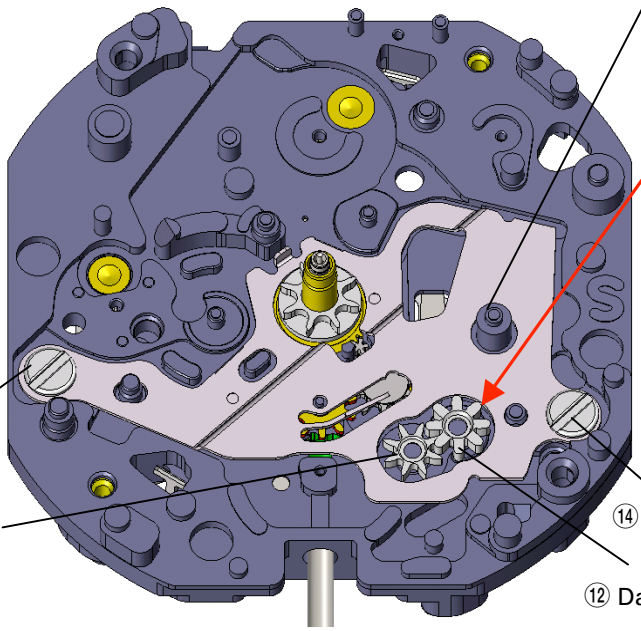
< Magnified view of
⑨ Day Driving Wheel>



⑫ Date Corrector Setting Wheel ~ ⑮ Hour Wheel Guard

Set in the positions as shown in the figures below.
Set ⑫ Date Corrector Setting Wheel and ⑬ 4th Intermediate Wheel for Calendar in the direction of the arrow in the figure below.





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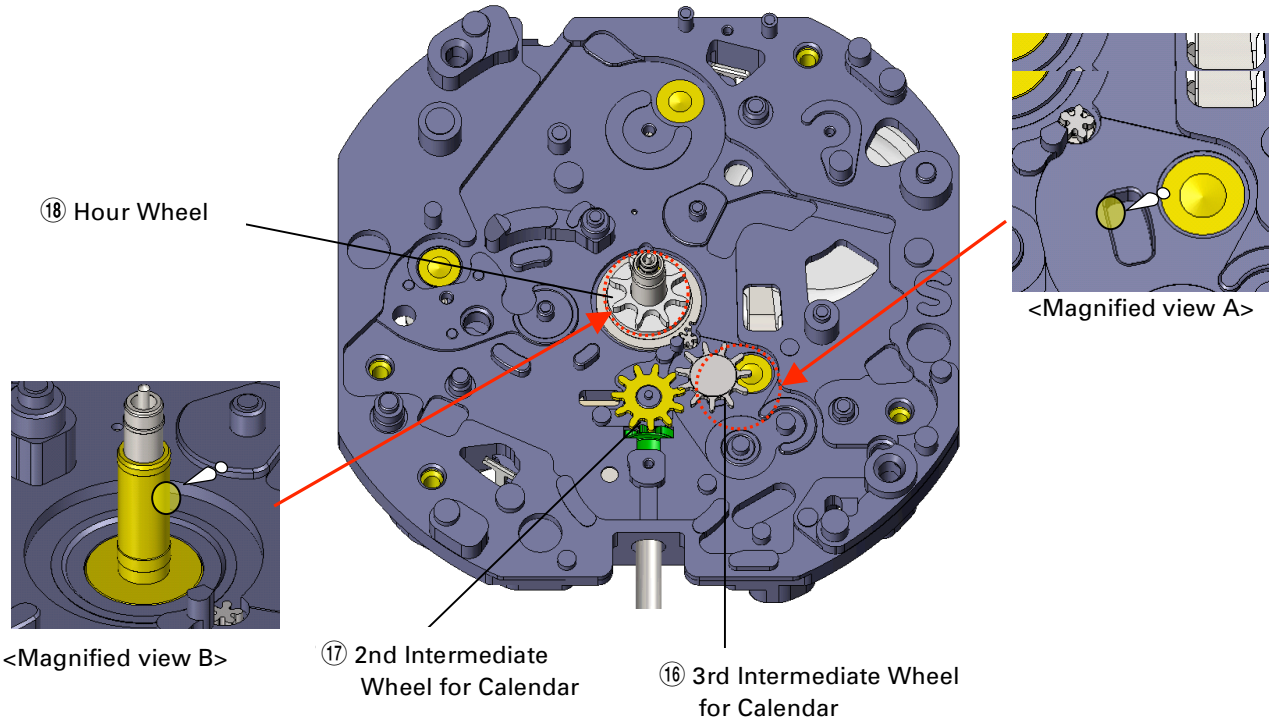
⑯ 3rd Intermediate Wheel for Calendar ~ ⑱ Hour Wheel

Set at the positions in the figure below.

■ Lubricating

Before installing ⑯ 3rd Intermediate Wheel for Calendar, lubricate normal quantity of Moebius A (AO-3) at the position in <Magnified view A> below.
Before installing ⑱ Hour Wheel, lubricate with normal quantity of Moebius A (AO-3) at the circled position as shown in <Magnified view B> below.



II. Value checking

■ ㉝ Coil Block (4002 760) resistance

0.75kΩ – 1.1kΩ

■ Current Consumption for ㉓ Circuit Block (4000 760)

For the whole movement: Less than 2.10μA
For the circuit block only : Less than 0.28μA

TECHNICAL GUIDE

Ⅲ. Troubleshooting

Symptoms	Problems	Solutions
The watch stops.	The battery is weak or dead.	Measure the battery voltage. Change the battery.
	The hands are worn out.	Change the hands.
	The coil is burned out.	Measure the coil block resistance. Change the coil block.
	The wheels are soiled with dirt and dust. The amount of oil is excessive (wringing).	Remove all dust or dirt. Clean the relevant parts. Be careful not to damage the teeth of the plastic parts while cleaning.
The current consumption for the whole movement is excessive.	Dirt, dust or a chip adheres to the movement.	Remove all dust or dirt.
	The driving pulse is generated due to the excessive load to the wheels. (The oil is deteriorated, leaked or has run out.)	Measure the current consumption for the circuit block alone. If the result is within the standard range, overhaul and clean the movement parts, and then measure the current consumption for the whole movement again.
The date or day hand does not move.	The relevant wheels are disengaged. The relevant jumpers are disengaged.	Check the setting position of the relevant wheels and jumpers.
The date or day of the week changes at a wrong timing.	The date driving wheel and/or day driving wheel are incorrectly installed.	Reinstall the relevant wheels correctly.
	The hour, minute hands are incorrectly installed.	Reinstall the hour and minute hands correctly.