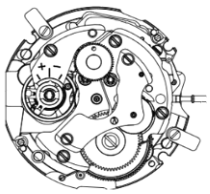
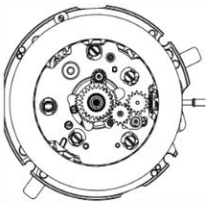
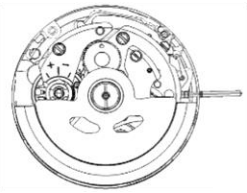
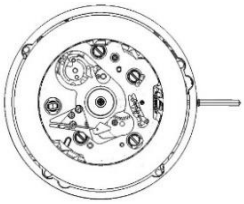
PARTS LIST / TECHNICAL GUIDE

Cal.6R54A/55A

[SPECIFICATION]

<table>
<tr><td colspan="2">Item ＼ Cal. No.</td><td>6R54A</td><td colspan="4">6R55A</td></tr>
<tr><td colspan="2"> 
・3 Hands (Hour, minute and second hand)＋24Hour hand
・Calendar (Date : Date disk)
 
・3 Hands (Hour, minute and second hand)
・Calendar (Date : Date disk)</td><td> 
  </td><td colspan="4"> 
  </td></tr>
<tr><td colspan="2" rowspan="2">Movement size</td><td colspan="5">・Diameter　Outside : ϕ27.4 mm
Casing : ϕ27.0 mm</td></tr>
<tr><td colspan="2">・Height
5.225 mm</td><td colspan="3">5.25 mm</td></tr>
<tr><td colspan="2">Driving system</td><td colspan="5">Automatic winding with manual winding mechanism</td></tr>
<tr><td colspan="2">Additional function</td><td colspan="5">・Instant date setting device
・Second hand stop function</td></tr>
<tr><td rowspan="3">Crown position</td><td>Normal position</td><td colspan="5">Manual winding (clockwise only)</td></tr>
<tr><td>1st click position</td><td colspan="5">Date setting (counter clockwise only)</td></tr>
<tr><td>2nd click position</td><td colspan="5">Time setting /Second hand stop function</td></tr>
<tr><td colspan="2">Vibrations per hour</td><td colspan="5">21,600 (6 beats per second)</td></tr>
<tr><td rowspan="3">Loss/ Gain</td><td>Daily rate</td><td colspan="5">Between -15 seconds and +25 seconds per day
(worn on the wrist at temperature-range between 5°C and 35°C)</td></tr>
<tr><td rowspan="3">Standard rate for measurement</td><td></td><td colspan="3">Instantaneous rate at T0
(Fully wound condition)</td><td>Isochronous fault</td></tr>
<tr><td>Testing positions</td><td>Dial upward: T0 (CH)</td><td>6 o’clock at the top</td><td>9 o’clock at the top</td><td>Dial upward</td></tr>
<tr><td>Measurement (daily rate in seconds:s/d)</td><td>±10 s/d</td><td>±15 s/d</td><td>±15 s/d</td><td>±15 s/d</td></tr>
<tr><td colspan="2">Regulation system</td><td colspan="5">ETACHRON system</td></tr>
<tr><td colspan="2">Lift angle of the escapement</td><td colspan="5">53°</td></tr>
<tr><td colspan="2">Power reserve</td><td colspan="5">From fully wound to stoppage: Approximately 72 hours</td></tr>
<tr><td colspan="2">Number of Jewels</td><td colspan="5">24 Jewels</td></tr>
</table>

SEIKO WATCH CORPORATION

6R5系　Outline Specifications（Difference from 6R35）

Components

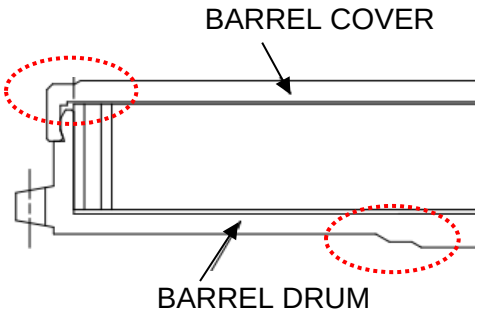
The following parts are different between the 6R5 series and 6R35A. Other parts are common.

CAL	No.	Parts name	6R5系	6R35A
6R54	㊼	MAIN PLATE WITH LOWER SHOCKABSORBING FRAME	0104 425	0104 165
6R55	㊸			
6R54	㊸	BARREL COMPLETE (WITHMAINSPRING)	0201 425	0201 283
6R55	㊴			

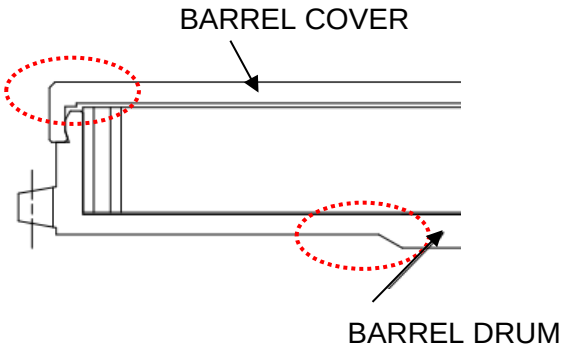
BARREL COMPLETE Identification

The shape of the barrel and barrel lid differs between 6R55A and 6R35A.
Identification is made in the following part.

6R5系（0201 425 ）

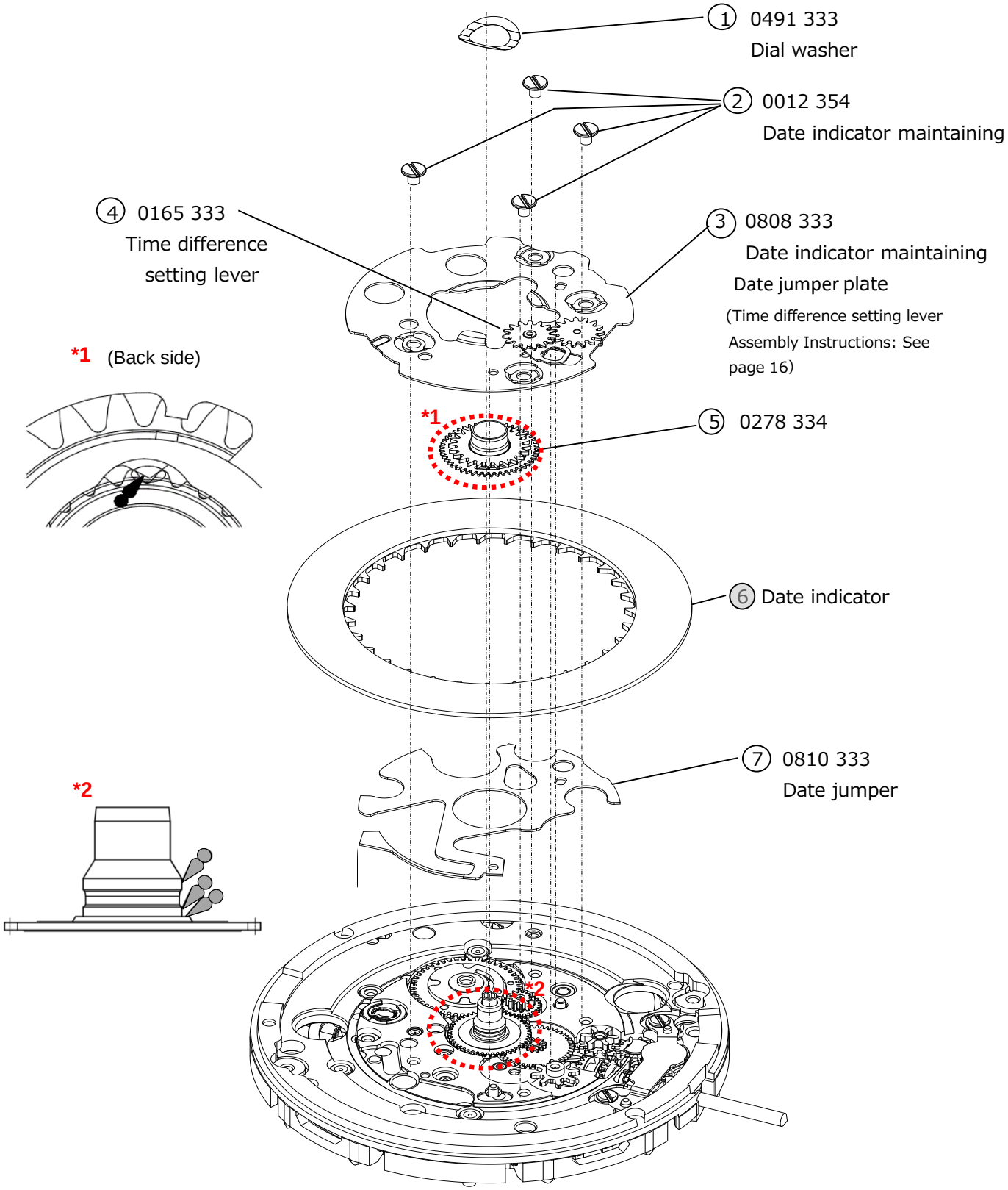


6R35A（0201 283 ）



Type of oil
AO-3 (Moebius A)
AO-G09a (S-6)
Oil quantity mark
NORMAL QUANTITY
SUFFICIENT QUANTITY

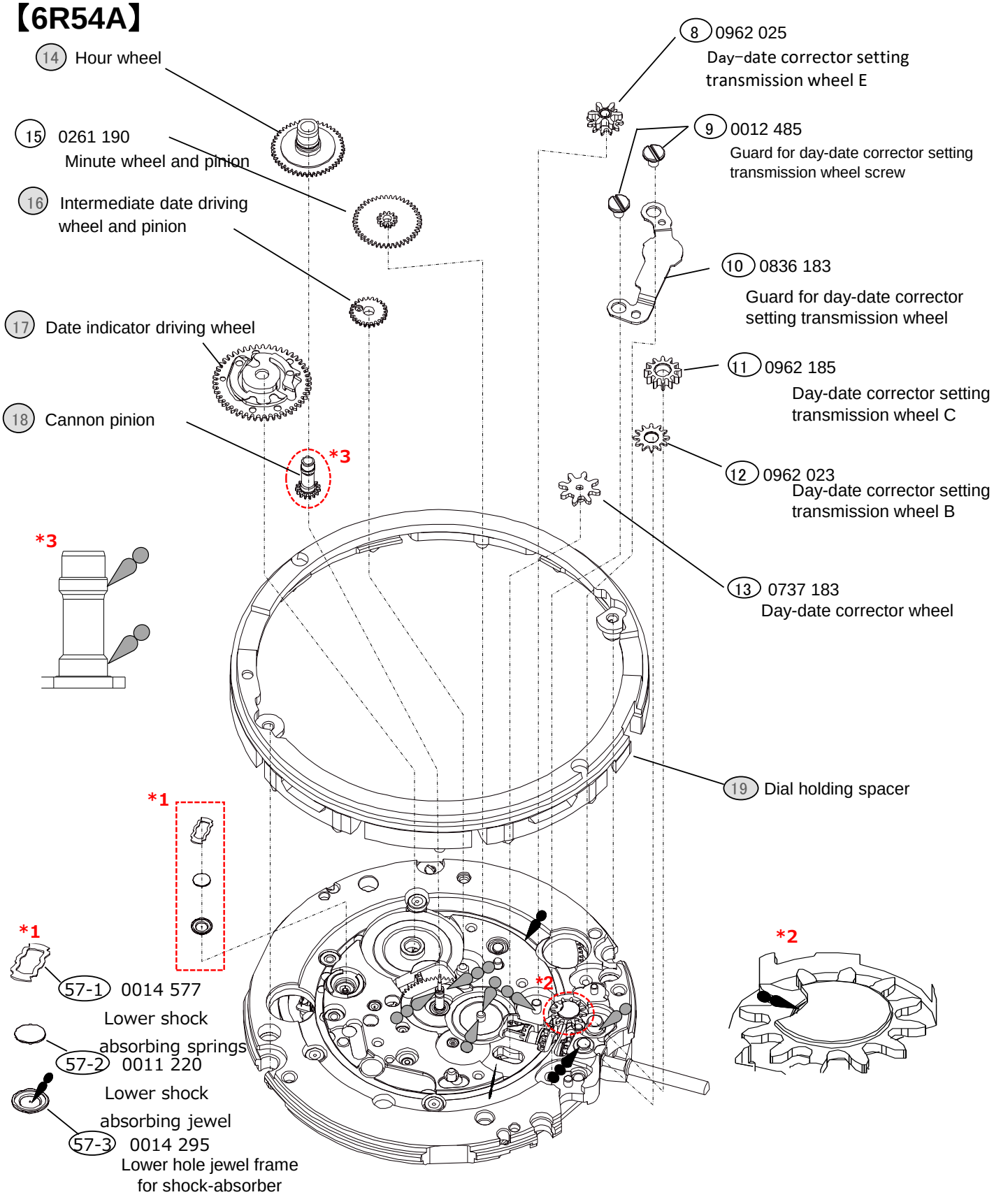
【6R54A】



For parts marked , refer to the notes in the parts catalog.

Type of oil
AO-3 (Moebius A)
AO-G09a (S-6)
Oil quantity mark
NORMAL QUANTITY
SUFFICIENT QUANTITY

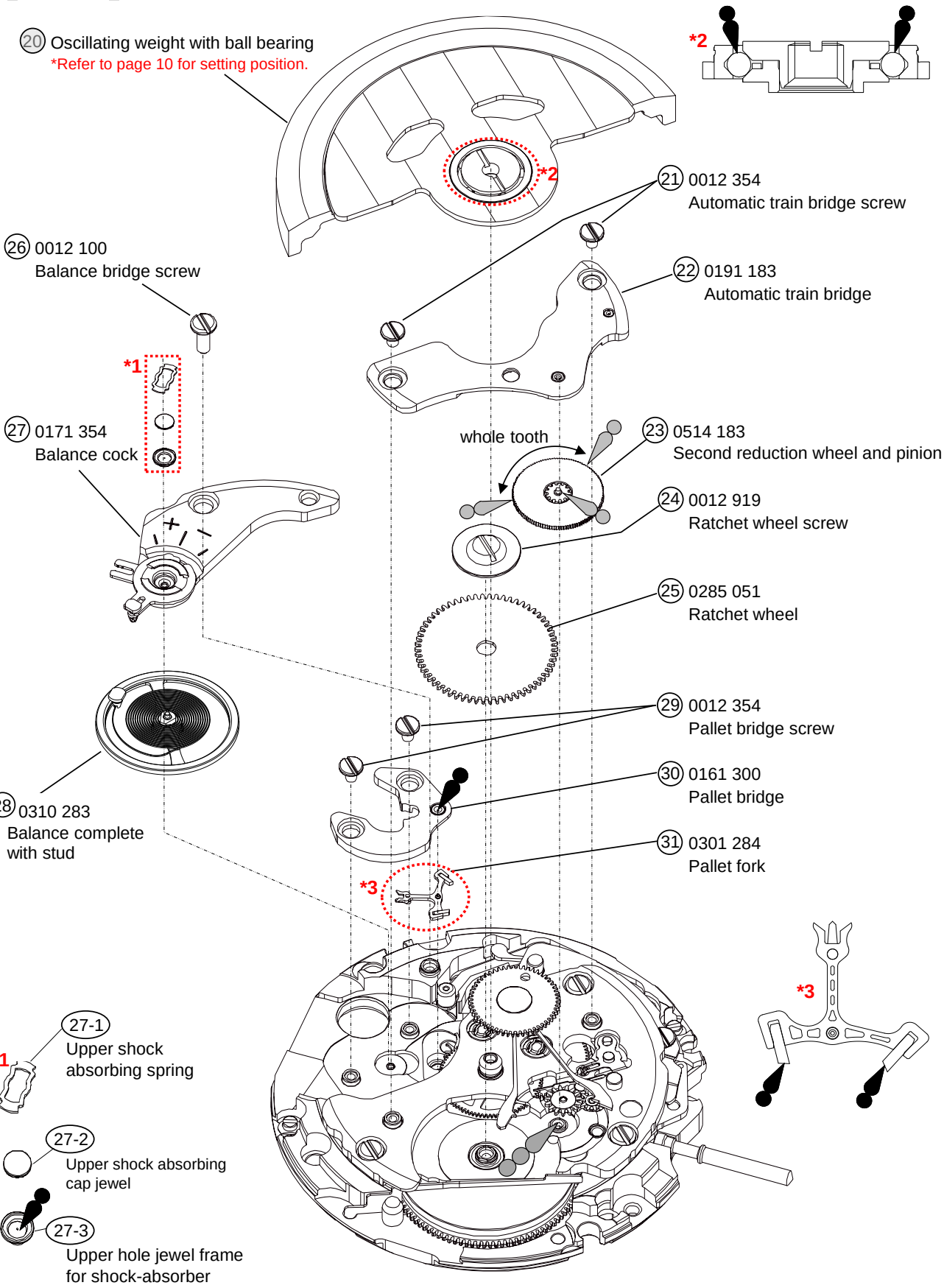
【6R54A】



For parts marked , refer to the notes in the parts catalog.

Type of oil
AO-3 (Moebius A)
AO-G09a (S-6)
Oil quantity mark
NORMAL QUANTITY
SUFFICIENT QUANTITY

【6R54A】



For parts marked , refer to the notes in the parts catalog.

Type of oil
AO-3 (Moebius A)
AO-G09a (S-6)
Oil quantity mark
NORMAL QUANTITY
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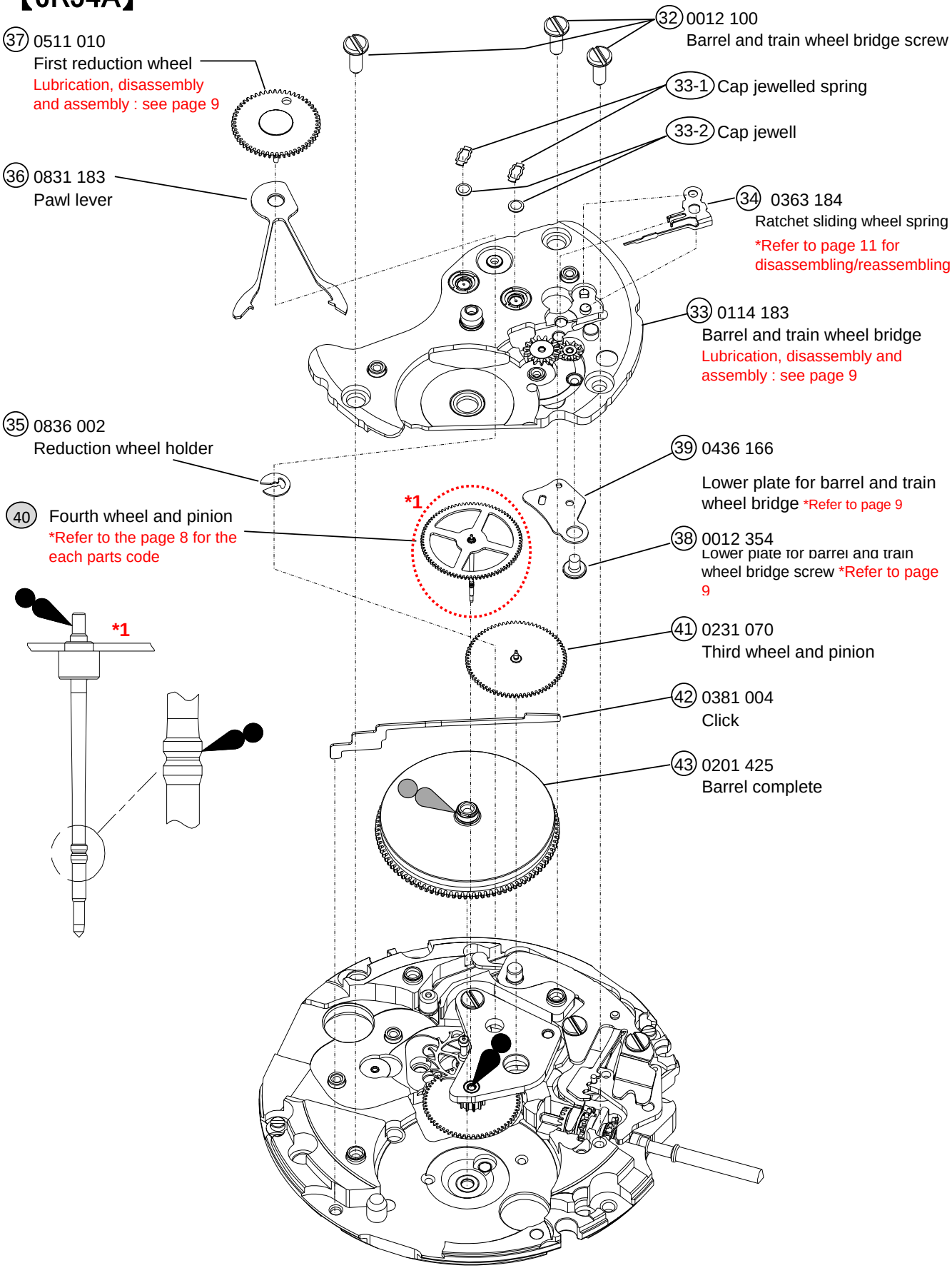
【6R54A】

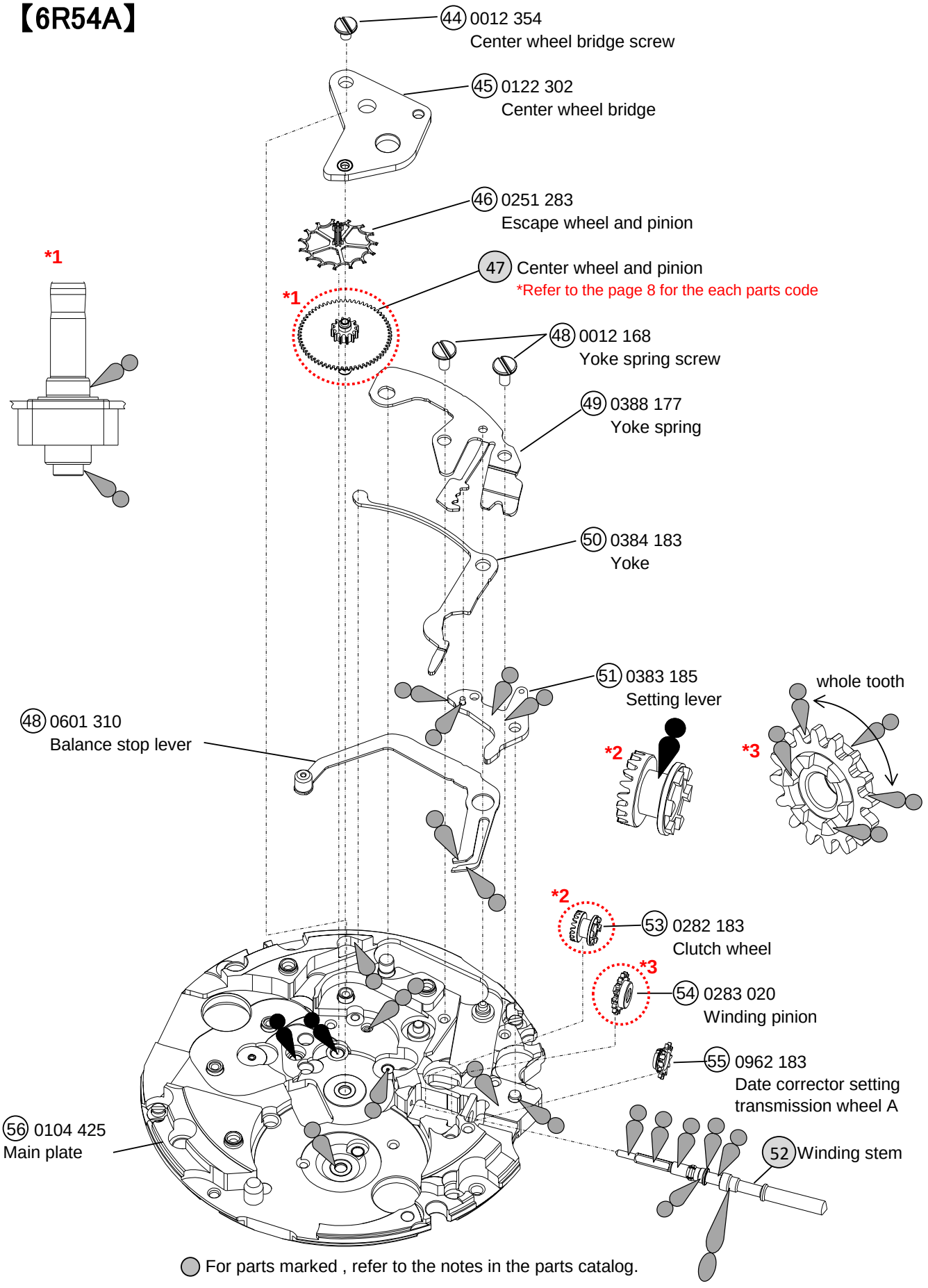


For parts marked , refer to the notes in the parts catalog.

Type of oil
AO-3 (Moebius A)
AO-G09a (S-6)

Oil quantity mark
NORMAL QUANTITY
SUFFICIENT QUANTITY

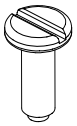
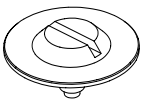
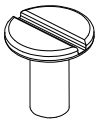
【6R54A】



For parts marked , refer to the notes in the parts catalog.

PARTS LIST

● PERSPECTIVE VIEW OF THE SCREW PARTS

Parts No	Name	Parts No	Name	Parts No	Name
0012 354 	① Date indicator maintaining plate screw (×4)	**0012 485** 	⑥ Guard for day-date corrector setting transmission wheel screw (×2)	**0012 100** 	㉒ Balance bridge screw
	⑰ Automatic train wheel bridge screw (×2)				㉘ Barrel and train wheel bridge screw (×3)
	㉕ Pallet bridge screw (×2)	**0012 919** 	⑳ Ratchet wheel screw	**0012 168** 	㊹ Yoke spring screw (×2)
	㉞ Lower plate for barrel and train wheel bridge screw				
	㊵ Center wheel bridge screw				

● LOCATION OF THE JEWELS

	Upper		Lower	
	Hole Jewel	Cap Jewel	Hole Jewel	Cap Jewel
Barrel complete			○	
Center wheel & pinion	○		○	
Forth wheel & pinion	○			
Third wheel & pinion	○	○	○	
Escape wheel & pinion	○	○	○	
Pallet fork	○		○	
Balance	○	○	○	○
Crown wheel	○			
First reduction wheel & arbor	○		○	
Second reduction wheel & pinion	○		○	
Pallet fork（entry pallet)	○			
Pallet fork（exit pallet）	○			
Balance (roller jewel)	○			
Total	24 jewels			

Remarks

The correct parts for the following are determined based on the design of the cases.
Refer to "SEIKO Watch Parts Catalogue (SEIKO WATCH SERVICE SITE)" to choose corresponding parts.

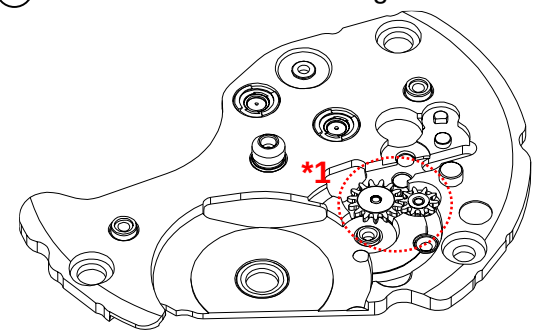
- Holding ring for dial
- Date indicator
- Winding stem
- Oscillating weight with ball bearing

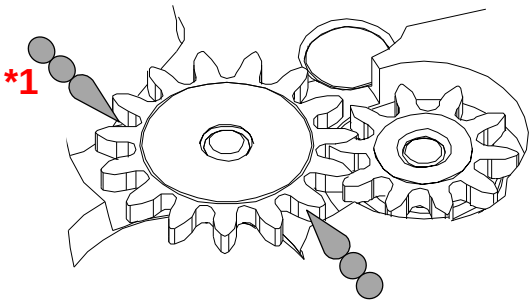
Type of oil
AO-3 (Moebius A)
AO-G09a (S-6)

Oil quantity mark
NORMAL QUANTITY
SUFFICIENT QUANTITY

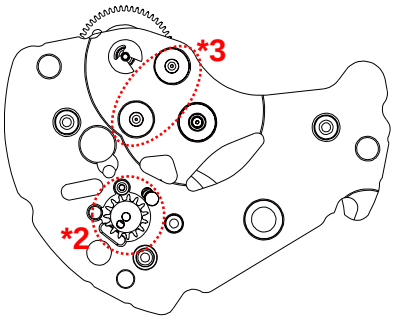
1.Oiling spot

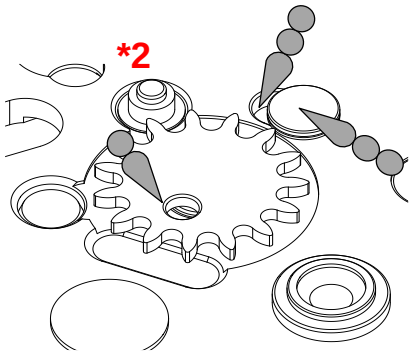
(33) Barrel and train wheel bridge

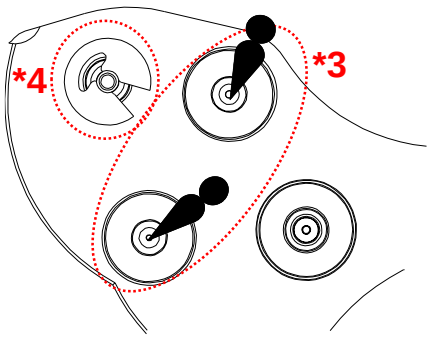




Barrel and train wheel bridge (back side)

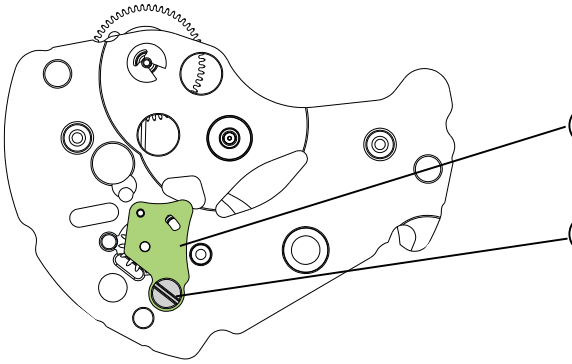






Note

***2 After oiling, set lower plate for barrel and train wheel bridge & screw.**

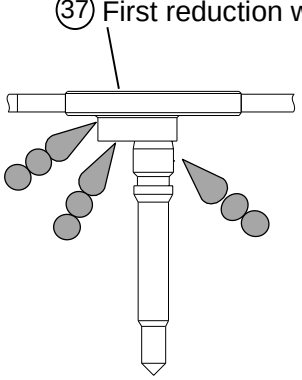


(39) Lower plate for barrel and train wheel bridge

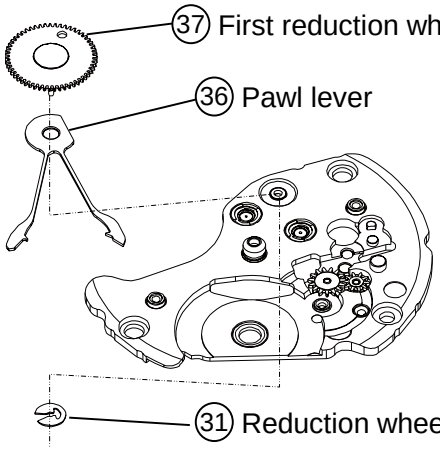
(38) Lower plate for barrel and train wheel bridge screw

***4 After oiling, set <u>first reduction wheel</u> & <u>pawl lever</u> & <u>reduction wheel holder</u>.**

(37) First reduction wheel



※Use AO-G09a or S-4.



(37) First reduction wheel

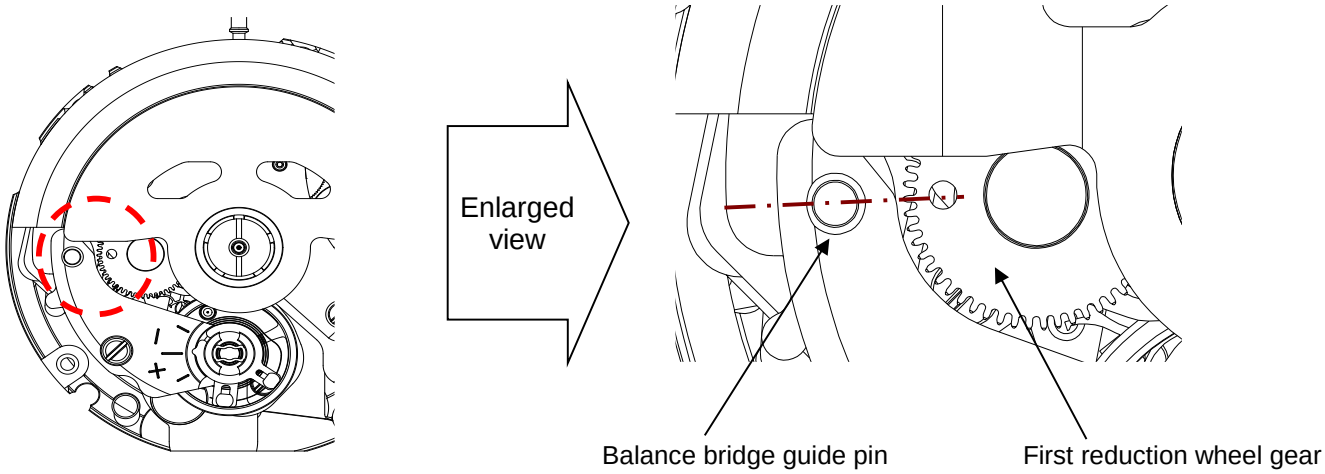
(36) Pawl lever

(31) Reduction wheel holder

2.Setting position of oscillating weight

・Before assembling oscillating weight.

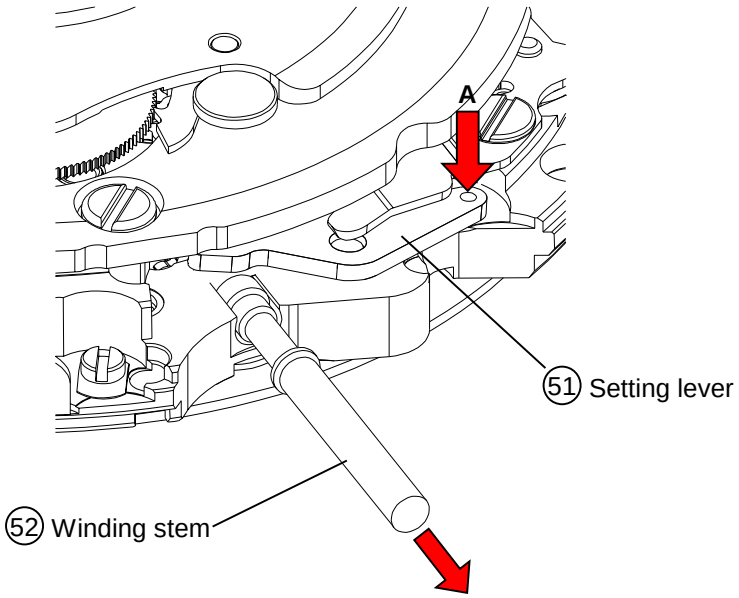
Match the center of the oscillating weight and winding stem. Set the hole of first reduction wheel gear on the imaginary line toward the balance bridge guide pin.



3.To remove the winding stem

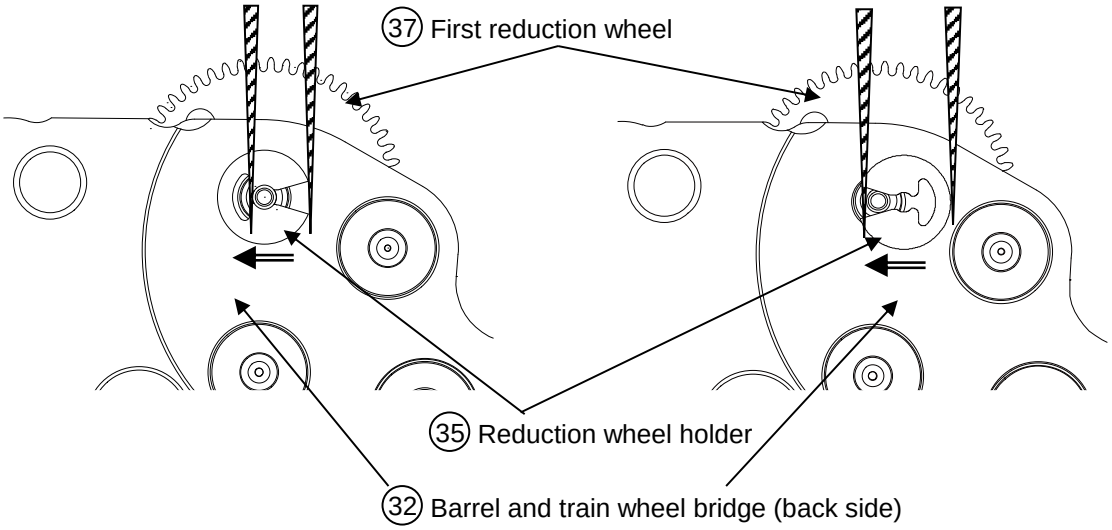
1) Set the winding stem to normal position.

2) Pull out the winding stem, while pushing "A"



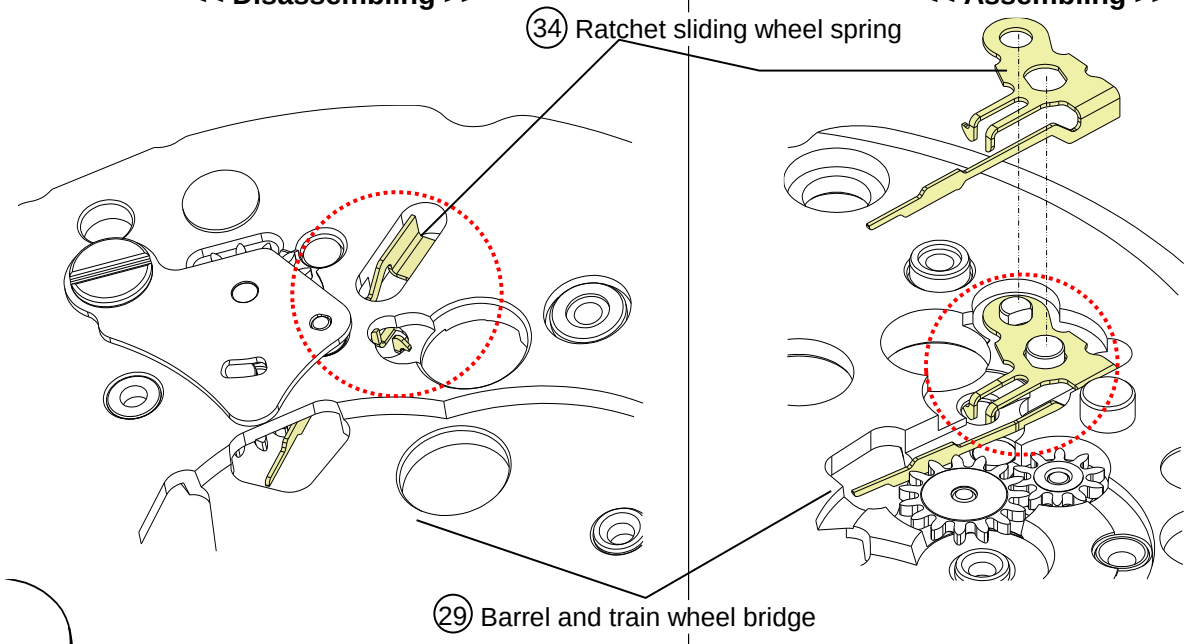
4.Disassembling / assembling of the First reduction wheel

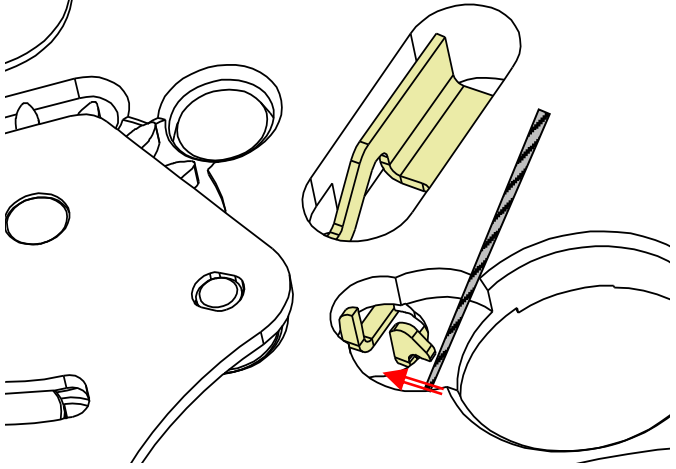
<< Disassembling >> **<< Assembling >>**



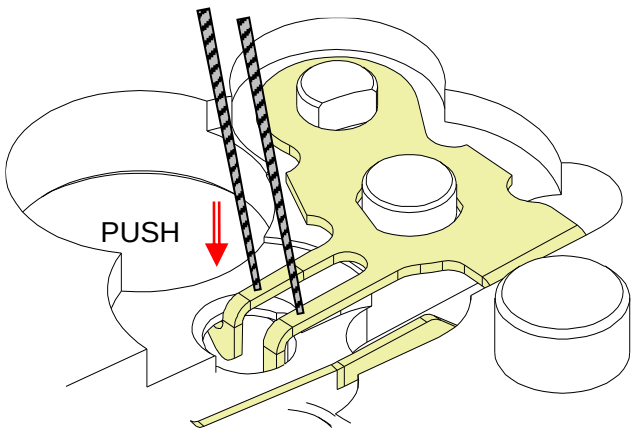
5.Disassembling / assembling of the Ratchet sliding wheel spring.

<< Disassembling >> **<< Assembling >>**



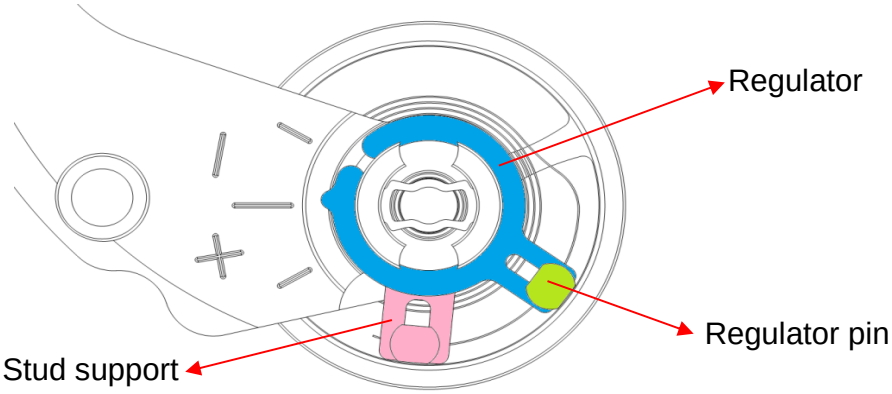


Remove the hook of the ratchet sliding wheel spring from barrel and train wheel bridge.



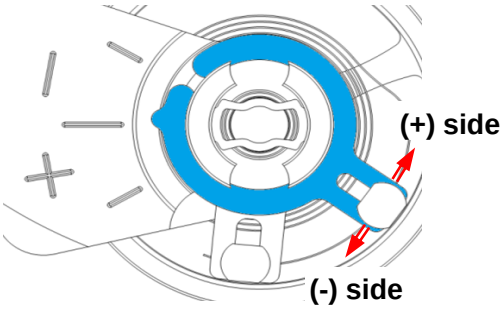
Set the part to the Barrel and train wheel bridge and push the hook from the top with tweezers so that it will be engaged securely.

6.Accuracy adjustment

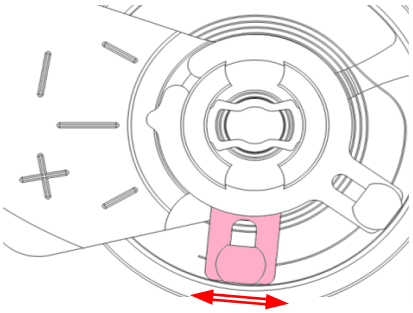


Note:

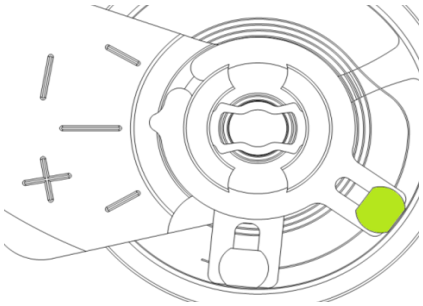
・Regulator … Time adjustment



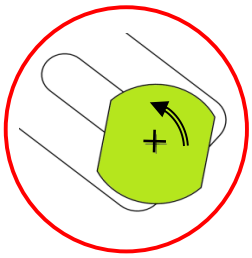
・Stud support … Beat error adjustment



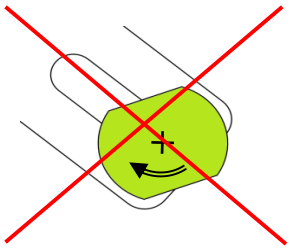
・Regulator pin … Gap adjustment of balance spring and regulator pin



Anticlockwise rotation



No clockwise rotation



7.To wind up the mainspring

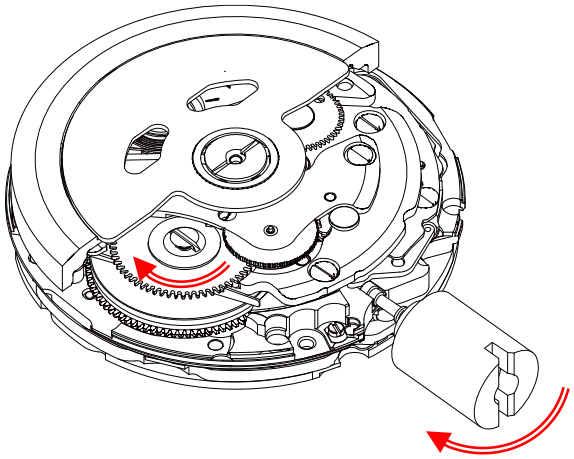
<<Movement>>

The mainspring would be fully wound up by turning the ratchet wheel screw **11 times** clockwise. (Manual winding or Screwdriver)

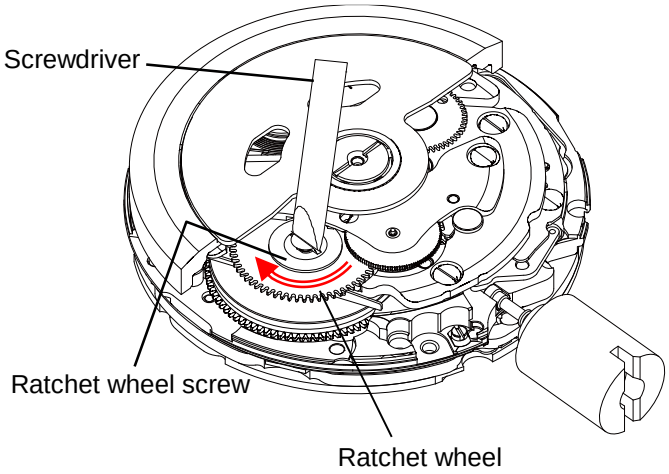
Manual winding … Rotate crown clockwise at normal position by minimum **65 times**. (Equal to ratchet wheel screw 11 times)

Screwdriver winding … Turn the ratchet wheel screw **11 times** clockwise.

[Manual winding]



[Screwdriver winding]



8.How to attach hands

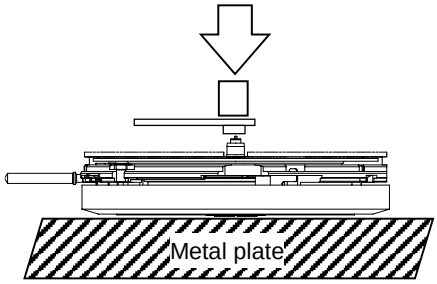
Place the movement directly on a flat metal plate or something similar to attach the hands.

We recommend the use of movement holder to attach hands.

For hands attachment, please use a special equipment.

When the movement receives a strong shock, it may be damaged.

Static weighting



9.Accuracy measurement condition

Static Accuracy : -15~+25 seconds per day

Measurement Conditions

1) Measurement should be done within 10~60 minutes after fully wound up.
2) Lift angle : 53 deg
3) Measurement position : (1) Dial up (2) 9 o'clock up (3) 6 o'clock up
4) Minimum measurement Time : 60 seconds
5) Stabilizing Time :

Leave the watch for at least 60 seconds to stabilize after you change its measurement position.