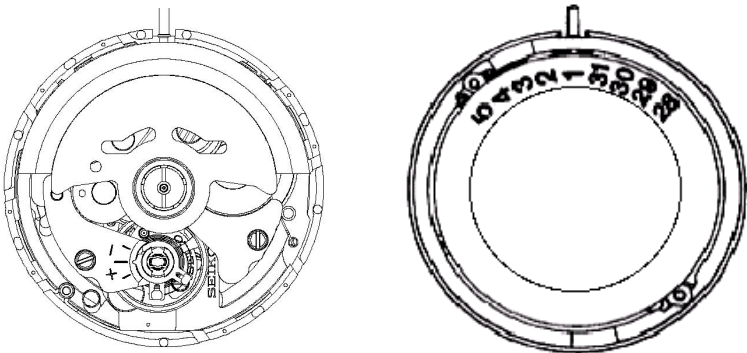
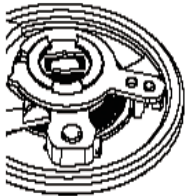
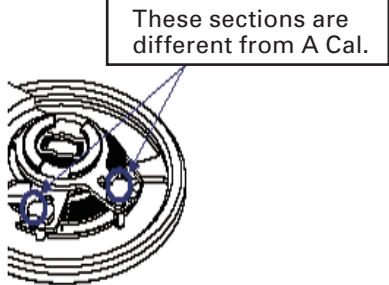


# PARTS CATALOGUE/TECHNICAL GUIDE

## Cal. 7S25B, 7S35B, 7S55B

### [SPECIFICATIONS]

Brand		SEIKO		
Cal. No.		7S25B	7S35B	7S55B
Item				
Movement		 <p style="text-align: center;">(x 1.5)</p>		
Movement size	Outside diameter	Ø 27.4 mm		
	Casing diameter	Ø 27.0 mm		
	Height	4.9 mm		
Time indication	● 3 hands (hour, minute and second hands)			
Vibration per hour	21,600 Hz/hour (6 beats per second)			
Additional mechanism	<ul style="list-style-type: none"> <li>● Automatic winding</li> <li>● Date calendar</li> <li>● Date correction function</li> </ul>			
Jewels	7S25B :21 jewels 7S35B, 7S55B :23 jewels			
The difference between A Cal. and B Cal.  * Cal.7S watches are changed from caliber "A" to caliber "B" in October 2006 production. According to the change, we would like you to pay attention to the design of the balance staff when repairing those watches.	7S25A/ 7S35A/ 7S55A	7S25B/ 7S35B/ 7S55B		
				
	Refer to "PARTS CATALOGUE/ TECHNICAL GUIDE Cal. 7S25A,7S35A,7S55A."	Refer to "PARTS CATALOGUE/ TECHNICAL GUIDE Cal. 7S25B,7S35B,7S55B."		

SEIKO WATCH CORPORATION




# PARTS CATALOGUE

Cal. 7S25B, 7S35B, 7S55B




Disassembling procedures Figs.: ① → ④⑦

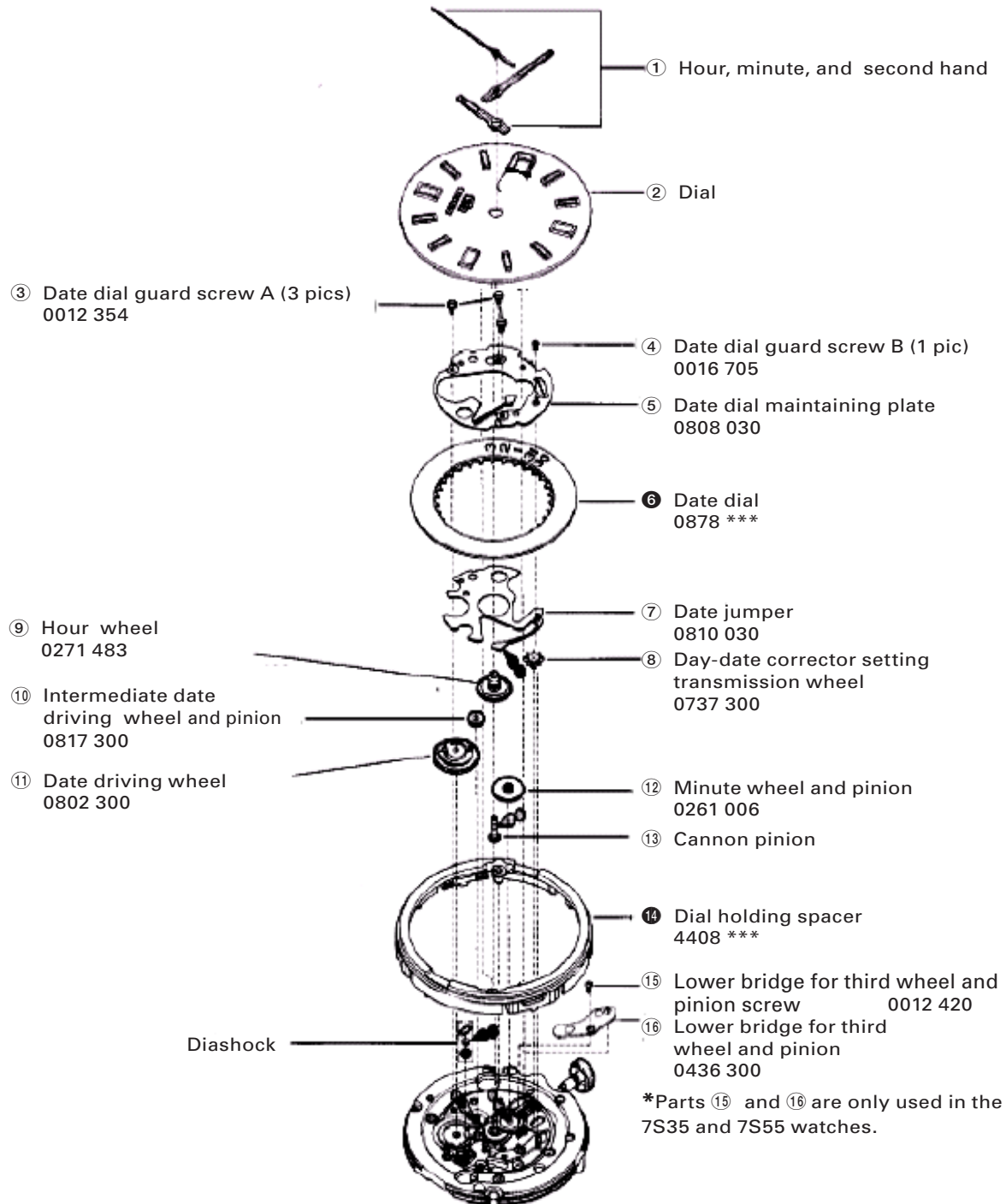
Reassembling procedures Figs.: ④⑦ → ①

Lubricating: Types of oil

-  AO-3 (Moebius A)
-  SEIKO Watch Oil S-6
-  SEIKO Watch Oil S-4

Oil quantity

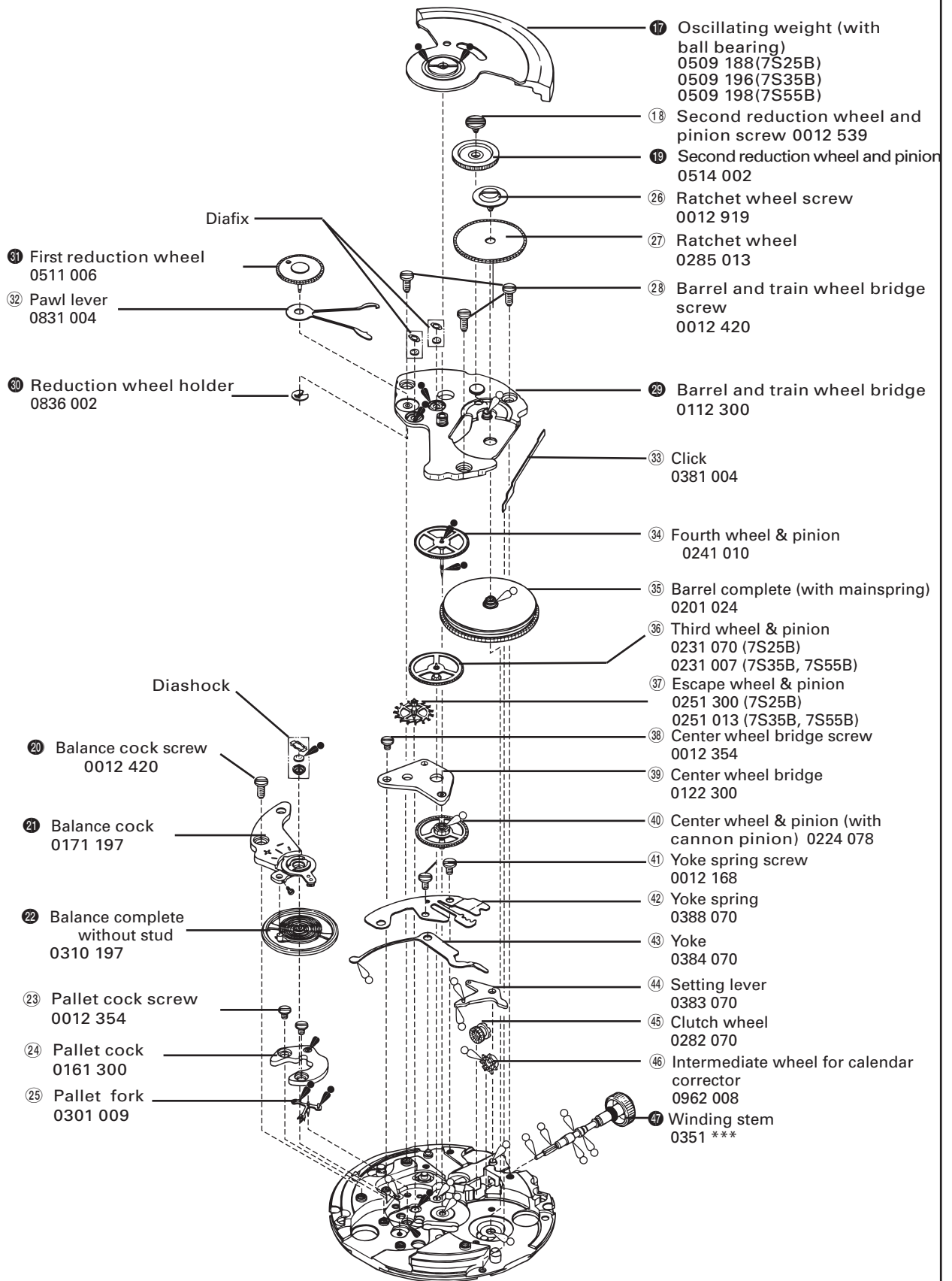
-  Liberal quantity
-  Normal quantity
-  Small quantity



For parts ⑥ and ⑭, refer to "PARTS USED DIFFER DEPENDING ON THE CASING MODEL" on page 5.

# PARTS CATALOGUE

Cal. 7S25B, 7S35B, 7S55B

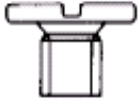



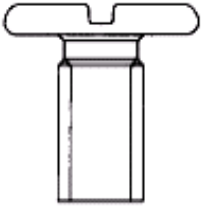



For parts 17, 19, 29, 30, and 31, refer to "REMARKS ON DISASSEMBLING AND REASSEMBLING" on page 6.  
 For parts 20, 21, and 22 refer to "HOW TO REMOVE AND INSTALL THE BALANCE STAFF" on page 7.  
 For parts 47, refer to "PARTS USED DIFFER DEPENDING ON THE CASING MODEL" on page 5.

# PARTS CATALOGUE

Cal. 7S25B, 7S35B, 7S55B

## SCREW PARTS

Parts code	Parts name	Parts code	Parts name
	Center wheel bridge screw Pallet cock screw Date dial guard screw A		Ratchet wheel screw
<b>0012 354</b>		<b>0012 919</b>	
	Balance cock screw Barrel and train wheel bridge screw Lower bridge for third wheel and pinion screw		Second reduction wheel and pinion screw
<b>0012 420</b>		<b>0012 539</b>	
	Yoke spring screw		Date dial guard screw B
<b>0012 168</b>		<b>0016 705</b>	

Parts name	Parts code	Parts name	Parts code
Upper hole jewel frame for diashock	0014 295	Upper hole jewel frame for third wheel and pinion	0015 701
Lower hole jewel frame for diashock		Upper hole jewel frame for escape wheel and pinion	0015 711
Diashock upper frame	0014 573	Upper spring for third wheel and pin- ion	0015 703
Diashock lower frame	0014 574	Upper spring for escape wheel and pinion	
Diashock upper spring	0014 577	Regulator	0341 020
Diashock lower spring		Stud support	0345 197

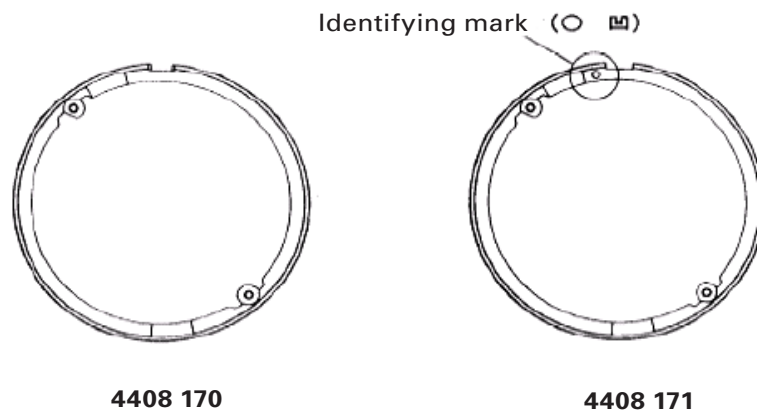
**PARTS USED DIFFER DEPENDING ON THE CASING MODEL**

- ⑥ Date dial  
0878 \*\*\*

\*The date dial used differs depending on the casing model.

- ⑭ Dial holding spacer  
4408 \*\*\*

The dial holding spacer for a diver's watch has an identifying mark.



\* The dial holding spacer used differs depending on the casing model. Refer to "SEIKO Watch Parts Catalogue (SEIKO WATCH SERVICE SITE)."

- ④⑦ Winding stem  
0351 \*\*\*

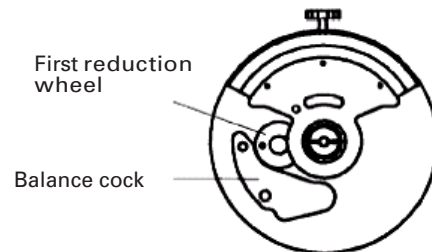
\* The winding stem used differs depending on the casing model. Refer to "SEIKO Watch Parts Catalogue (SEIKO WATCH SERVICE SITE)."

- The following description is only applicable to 7S caliber watches.

## I. REMARKS ON DISASSEMBLING AND REASSEMBLING

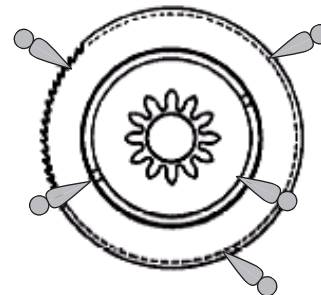
### 17 Oscillating weight (with ball bearing)

The inside screw can be found in the inside ring of the ball bearing. Use the big screwdriver to screw sufficiently tight. When setting the oscillating weight, align the hole of the first reduction wheel with the hole of the balance cock, and then set the oscillating weight by tightening the inside screw of the inside ring of the ball bearing (refer to the right figure).



### 19 Second reduction wheel and pinion

Lubricate the second reduction wheel and pinion (refer to the right figure).

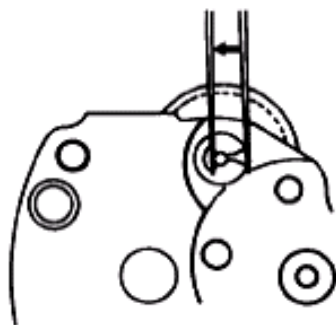


### 29 Barrel and train wheel bridge

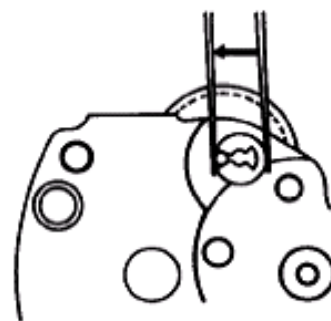
Before setting the barrel and train wheel bridge, set the first reduction wheel and arbor, pawl lever, and reduction wheel holder.

### 30 Reduction wheel holder

How to disassemble

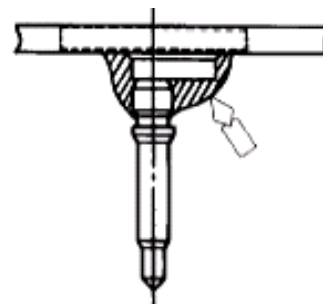


How to assemble



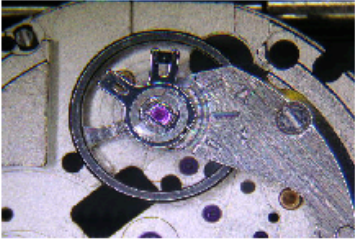
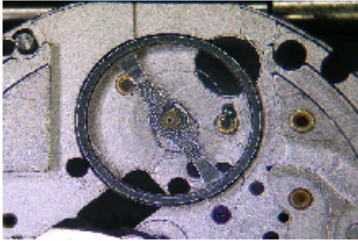
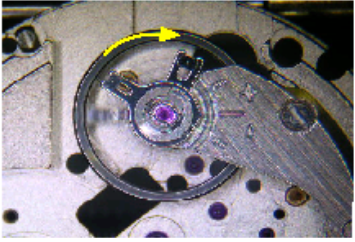
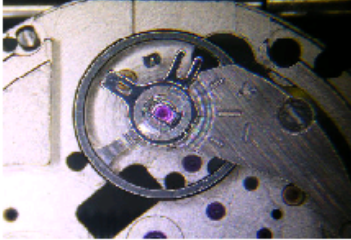
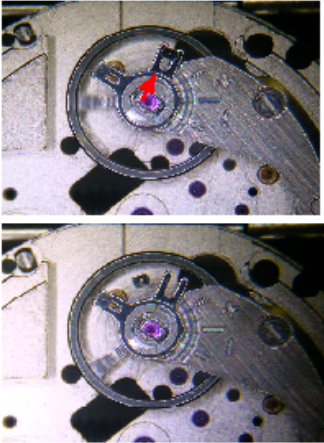
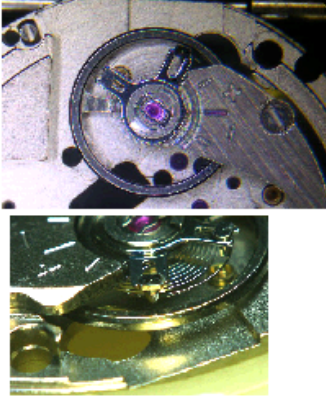
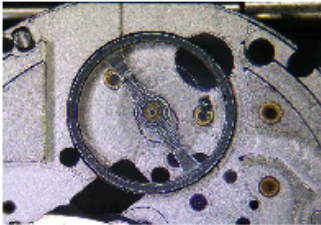
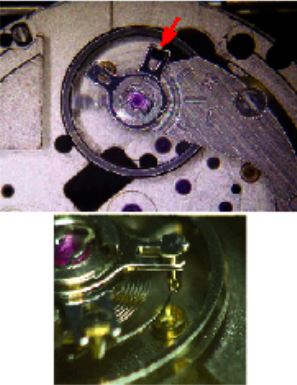
### 31 First reduction wheel

Liberally lubricate the first reduction wheel (refer to the right figure).





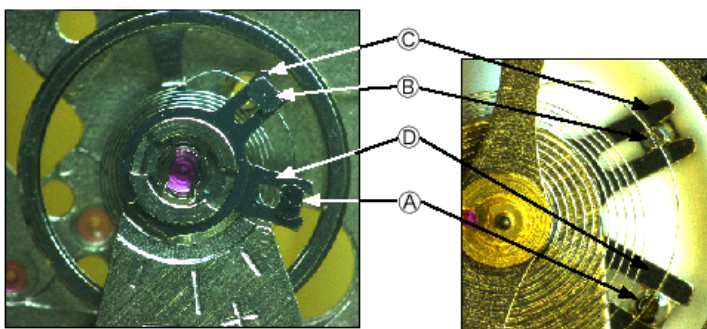
**20 - 22 : HOW TO REMOVE AND INSTALL THE BALANCE STAFF**

How to remove	How to install
<p>1. Initial phase Set the balance complete with stud and balance cock to the main plate.</p> 	<p>1. Initial phase Set a new balance complete with stud to the main plate.</p> 
<p>2. Move the stud support toward the balance cock until it is attached to the balance cock. * When doing so, make sure that the outer end of the hairspring is not removed from the regulator arm.</p> 	<p>2. Set the balance cock and tighten the balance cock screw.</p> 
<p>3. Using sturdy tweezers, push the stud outward from the direction of the arrow shown in the illustration until it is removed from the stud support.</p> 	<p>3. Temporarily set the stud to the stud support. Make sure that the hairspring passes outside the pin of the regulator arm. * Be careful so as not to damage the hairspring.</p> 
<p>4. Remove the balance cock and replace the balance complete with stud with a new one.</p> 	<p>4. Using sturdy tweezers, set the stud to the stud support and press it down. Make sure that the outer end of the hairspring passes through the regulator slot of the regulator arm. * Be careful so as not to damage the hairspring.</p> 

## HOW TO ADJUST THE HAIRSPRING

1. Names of the parts

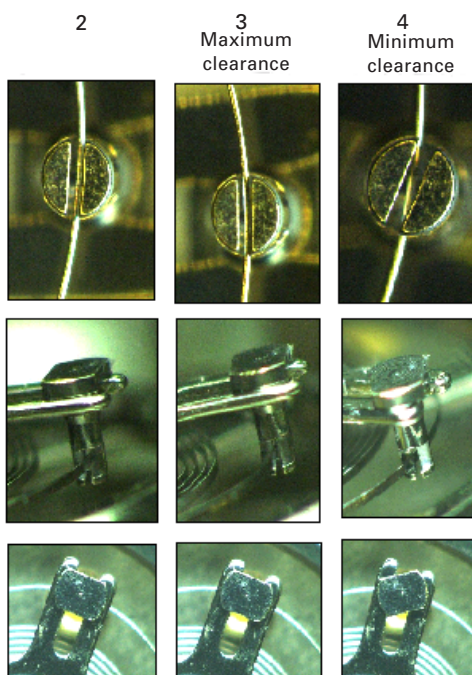
- A: Stud
- B: Regulator arm
- C: Regulator pin
- D: Stud support



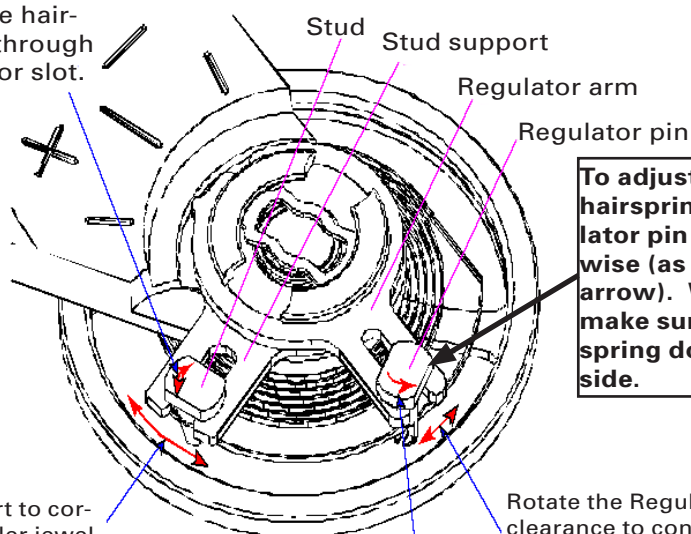
2. Rotate B to fine-tune the position of the outer end of the hairspring which passes through the regulator slot so that the hairspring makes the longest diameter.

3. Rotate A to fine-tune the position of the outer end of the hairspring so that the hairspring passes through the center of the regulator slot.

4. Rotate B to fine-tune the effective length of the hairspring which passes through the regulator slot to define adequate clearance.



Adjust the position of the hairspring so that it passes through the center of the regulator slot.



**To adjust the length of the hairspring, rotate the regulator pin only counterclockwise (as indicated with the arrow). While doing so, make sure that the hairspring does not lean to one side.**

Move the stud support to correctly position the roller jewel.

Adjust the location of the regulator arm to fine-tune the length of the hairspring.

Rotate the Regulator pin to adjust the clearance to control the swing angle of the hairspring.