
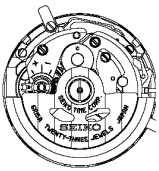



PARTS LIST/TECHNICAL GUIDE

Cal. 6R15B/6R15C

[SPECIFICATIONS]

Item	Cal. No.	6R15B/6R15C				
  		<ul style="list-style-type: none"> • 3 hands (Hour, minute and second hands) • Date indication 				
		<ul style="list-style-type: none"> • Movement size <ul style="list-style-type: none"> • Diameter Outside: Ø 27.4 mm <li style="padding-left: 20px;">Casing: Ø 27.0 mm • Height 5.25 mm 				
Driving system		Automatic winding with auxiliary hand winding mechanism				
Time indication		<ul style="list-style-type: none"> ● Mechanical watch ● 3 hands ● Automatic winding ● Manual winding 				
Additional function		<ul style="list-style-type: none"> ● Date calendar ● Instant date setting device ● Second setting device 				
Crown operation	Normal position	Manual winding (clockwise)				
	1st click position	Date correction (counterclockwise)				
	2nd click position	Time setting Second hand stop function				
Vibration per hour		21,600 (6 beats per second)				
Loss/ Gain	Daily rate worn on the wrist at temperature-range between 5°C and 35°C)	Between -15 seconds and +25 seconds par day				
	Standard rate for measurement	Mainspring wind up status	Fully wind up			After 24 hours from fully wind up
		Testing positions	Dial upward: T0 (CH)	6 o'clock at the top	9 o'clock at the top	Dial upward : T24 (CH)
		Measurement (daily rate in seconds:s/d)	±10 s/d	±15 s/d	±10 s/d	(Isochronism fault: T24-T0) :10 s/d
Regulation system		ETACHRON system				
Lift angle of the escapment		53°				
Power reserve		From fully wound to stoppage: Approximately 50 hours				
Number of Jewels		23 Jewels				

SEIKO WATCH CORPORATION

PARTS LIST

Cal. 6R15B/6R15C

FEATURES

SEIKO Automatic Mechanical Cal. 6R15C is replacement caliber of Cal. 6R15B.

Construction of the C series are same as B series, but using new parts.

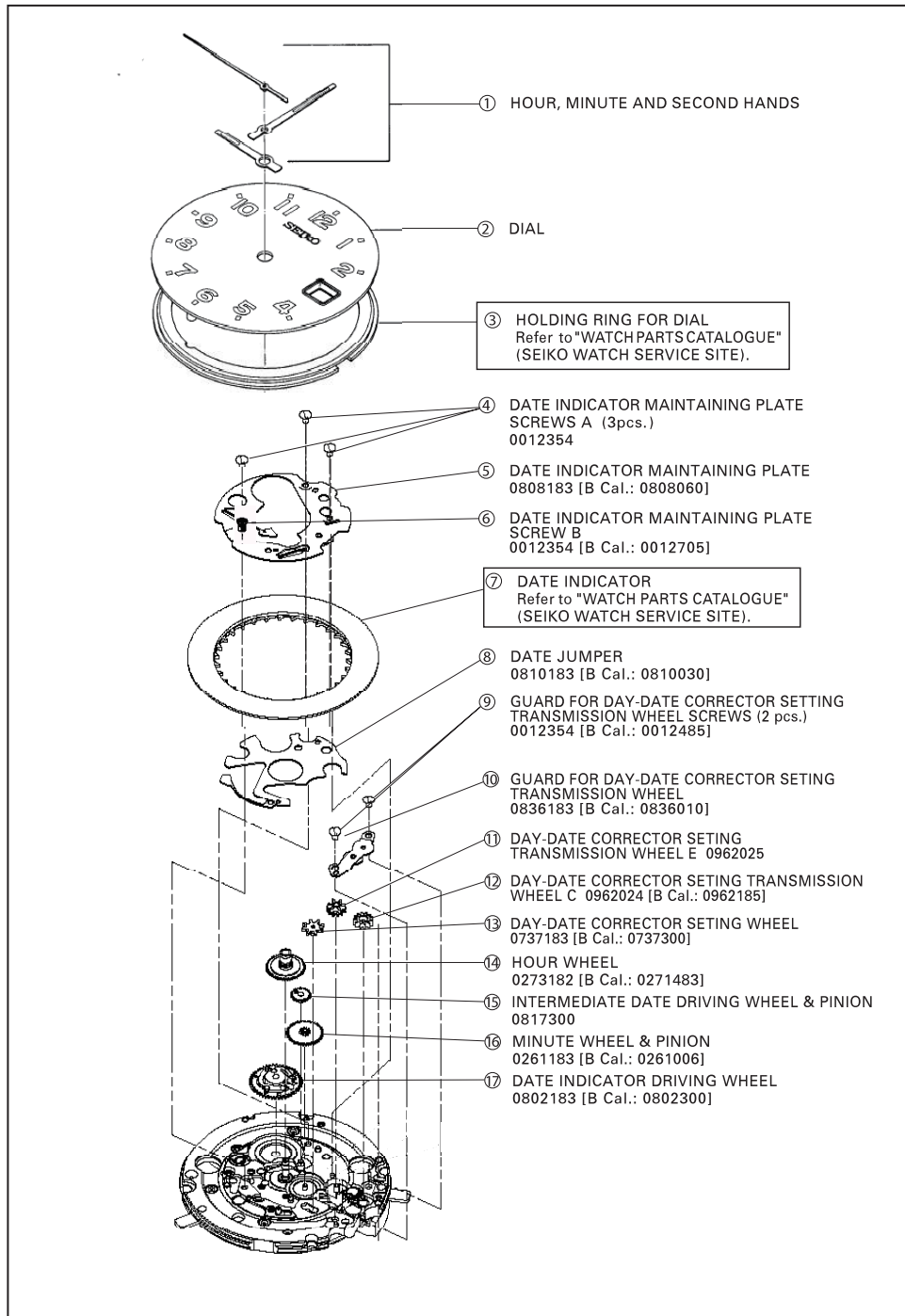
Since the size of movement is same as B series, the complete movement can be assembled into the watches which originally have the B series movement; however, as the parts are not convertible, please use the appropriate parts for each caliber.

REMARKS: Parts Differences Between B series and C series

	Parts Name	6R15B	6R15C
6	DATE DIAL GUARD	0808060	0808183
5	DATE DIAL GUARD SCREW	0016705	0012354
8	DATE JUMPER	0810030	0810183
9	GUARD SCREW OF INTERMEDIATE WHEEL FOR DATE SETTING	0012485	0012354
10	GUARD OF INTERMEDIATE WHEEL FOR DATE SETTING	0836010	0836183
12	INTERMEDIATE WHEEL FOR DATED SETTING C	0962185	0962024
13	DATE CORRECTOR SETTING WHEEL	0737300	0737183
14	HOUR WHEEL	0271483	0273182
17	MINUTE WHEEL AND PINION	0261006	0261183
16	DATE DRIVING WHEEL	0802300	0802183
20	AUTOMATIC TRAIN BRIDGE	0191023	0191183
21	2ND REDUCTION WHEEL	0514010	0514183
25	BALANCE COCK	0171115	0171354
31	BARREL AND TRAIN WHEEL BRIDGE	0112382	0114183
32	SLIDING CROWN WHEEL SPRING	0363156	0363183
34	PAWL LEVER	0831010	0831183
37	LOWER BRIDGE FOR CROWN WHEEL AND REDUCTION WHEEL	0436001	0436164
41	BARREL COMPLETE	0201267	0201164
45	CENTER WHEEL AND PINION	0224086	0224183
47	YOKE SPRING	0388071	0388177
48	YOKE	0384061	0384183
49	SETTING LEVER	0383060	0383177
50	STOP LEVER	0601010	0601183
52	CLUTCH WHEEL	0282040	0282183
54	CALENDAR CORRECTOR INTERMEDIATE WHEEL A	0962021	0962183
	MAIN PLATE	0100489	0104164

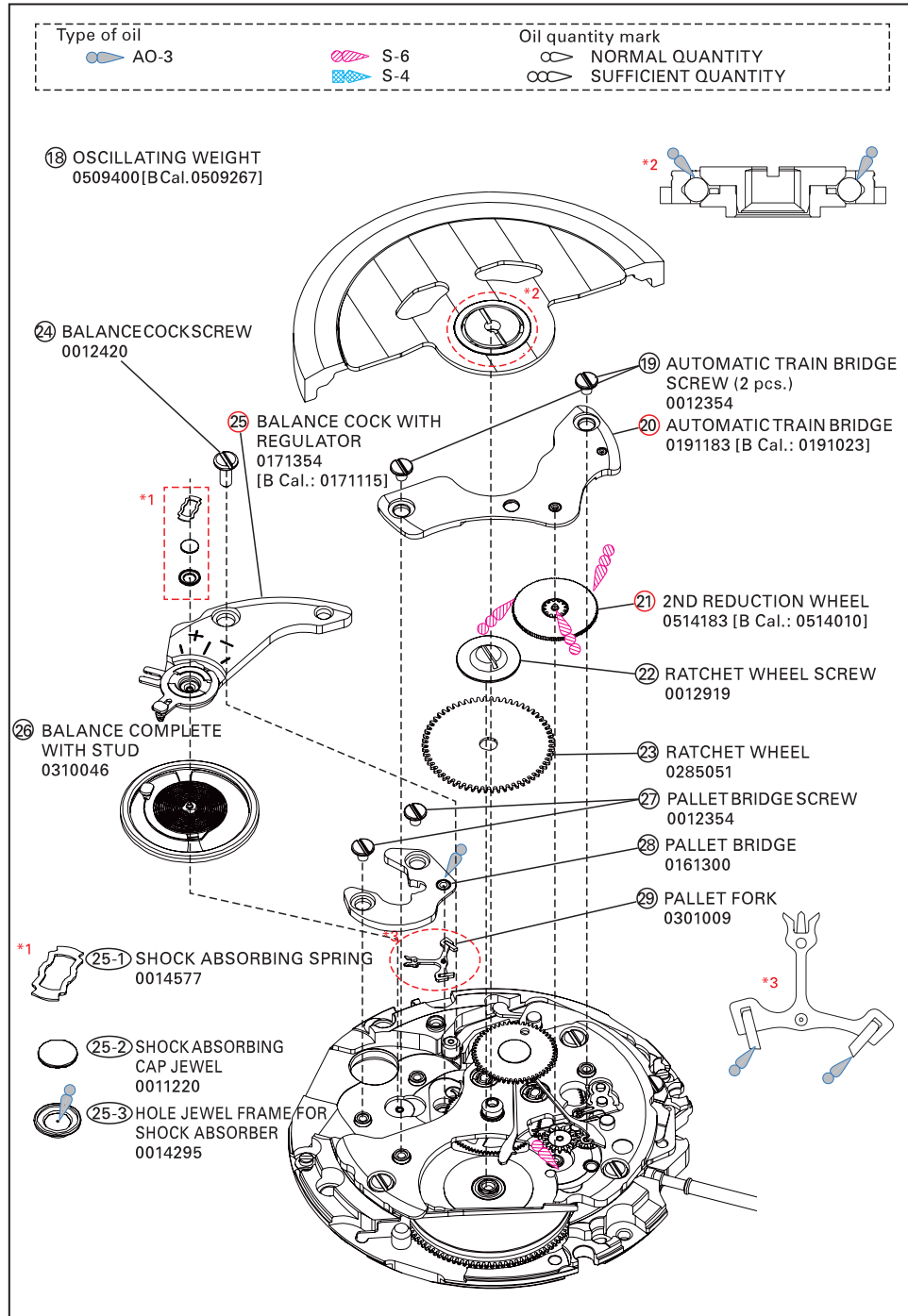
PARTS LIST

Cal. 6R15B/6R15C



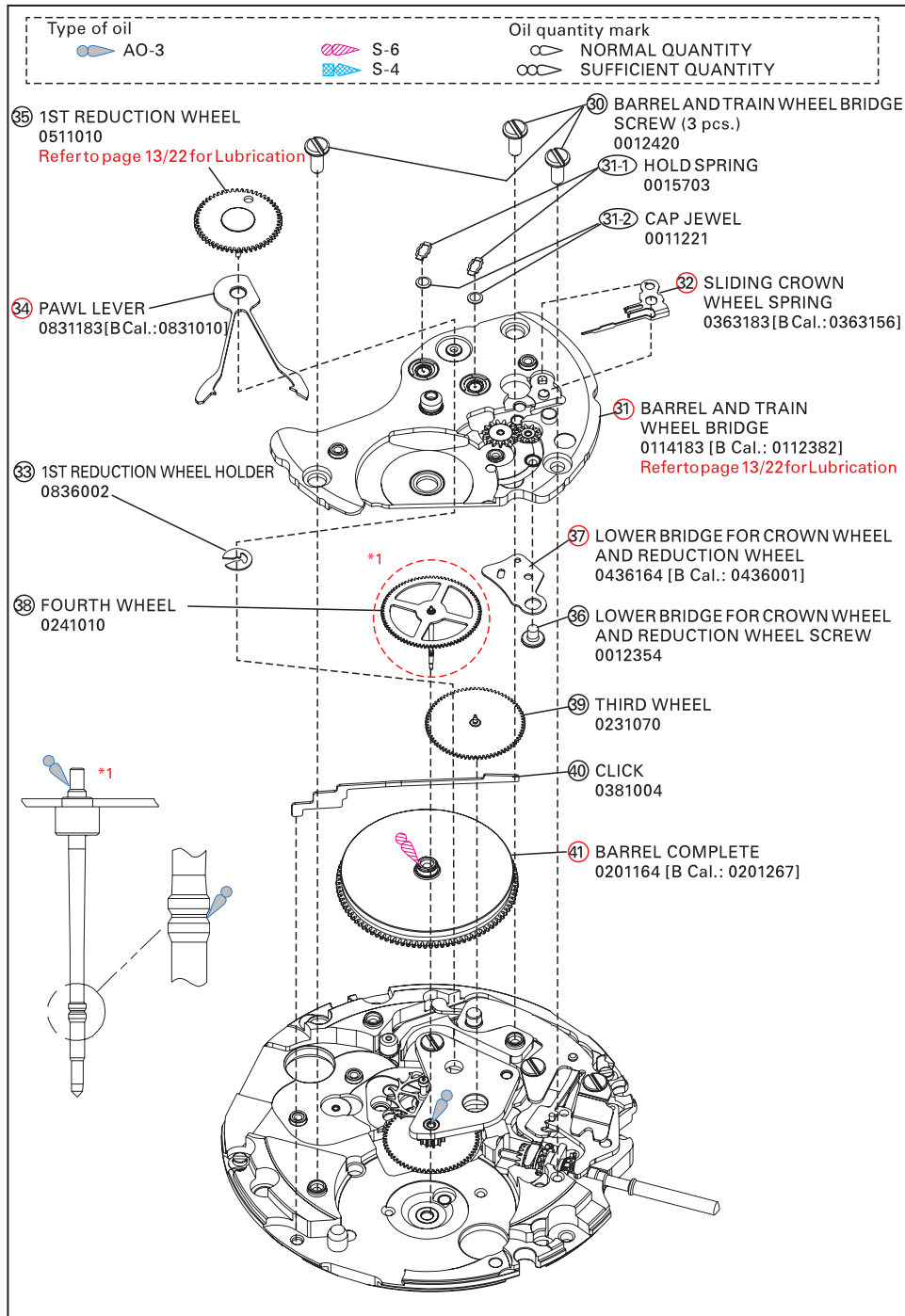
PARTS LIST

Cal. 6R15B/6R15C



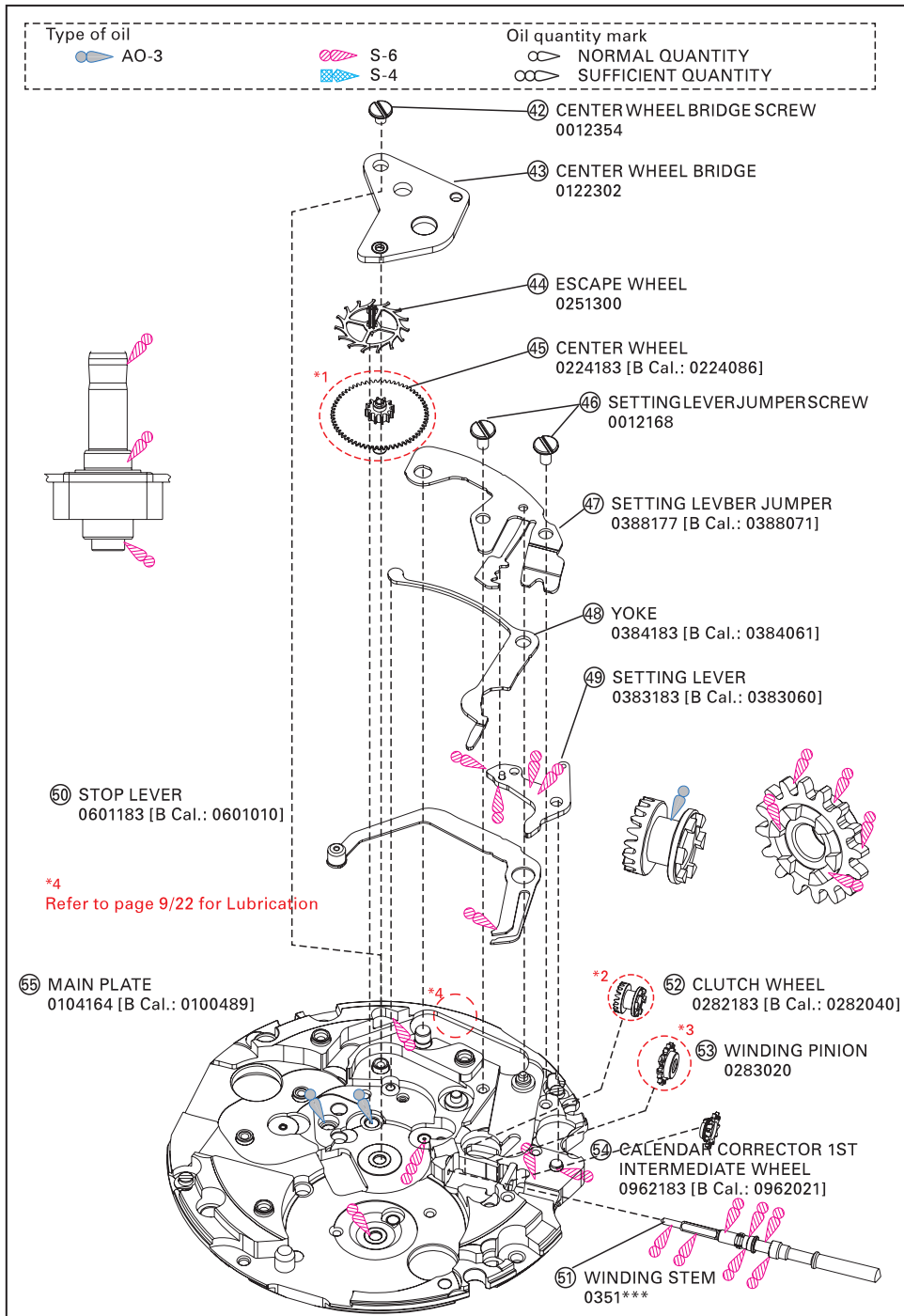
PARTS LIST

Cal. 6R15B/6R15C



PARTS LIST

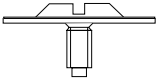

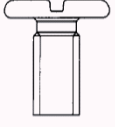


Cal. 6R15B/6R15C



PARTS LIST

Cal. 6R15B/6R15C

CROSS-SECTION VIEW OF THE SCREW PARTS

Parts code	Parts name
 <p data-bbox="512 719 584 741">0012 919</p>	Ratchet wheel screw
 <p data-bbox="512 909 584 931">0012 354</p>	Lower plate barrel & train wheel bridge screw Center wheel bridge screw Pallet bridge screw (2pcs.) Automatic train wheel screw (2pcs.) Date indicator maintaining plate screw A (4 pcs.)
 <p data-bbox="512 1122 584 1144">0012 168</p>	Yoke spring screw (2pcs.)
 <p data-bbox="512 1317 584 1339">0012 420</p>	Barrel & train wheel bridge screw (3 pcs.) Balance bridge screw
 <p data-bbox="512 1491 584 1514">0012 067</p>	Casing clamp screw (2 pcs.)

PARTS LIST

Cal. 6R15B/6R15C

OTHERS

Location	Parts names	Parts codes
Above the third wheel & pinion	Upper cap jewel	0011 221
	Cap jewelled spring	0015 703
Above the escape wheel & pinion	Upper cap jewel	0011 221
	Cap jewelled spring	0015 703
Above the balance	Upper hole jewel frame for shock-absorber	0014 295
	Upper shock-absorbing cap jewel	0011 220
	Upper shock-absorbing spring	0014 577
Below the balance	Lower hole jewel frame for shock-absorber	0014 295
	Lower shock-absorbing cap jewel	0011 220
	Lower shock-absorbing spring	0014 577

LOCATION OF THE JEWELS

	Upper		Lower	
	Cap Jewel	Hole Jewel	Cap Jewel	Hole Jewel
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			23 jewels	

Remarks

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

- Holding ring for dial
- Date indicator
- Winding stem

PARTS LIST

Cal. 6R15B/6R15C

1 LUBRICATE THE MAIN PLATE

Make sure to lubricate the exact lubrication points with an adequate amount of the correct type of oil.

●▶ Normal quantity

1. Lubricate the lower shock-absorbing cap jewel as illustrated, and set it to the lower hole jewel with frame for shock-absorber. Then, mount the lower hole jewel with frame for shock-absorber (with the cap jewel attached) to the lower shock-absorbing frame, and hook the lower shock-absorbing spring over it.

Type of oil: AO-3 (Moebius A) ●▶

2. Lubricate the lower hole jewel for the pallet fork as illustrated.

Type of oil: AO-3 (Moebius A) ●▶

3. Lubricate the lower hole jewel for the escape wheel & pinion as illustrated.

Type of oil: AO-3 (Moebius A) ●▶

4. Lubricate the contact point between the tail portion of the yoke and the frame of the main plate as illustrated.

Type of oil: S-6 ◉▶

5. Lubricate the lower hole jewel for the first reduction wheel & arbor as illustrated.

Type of oil: S-6 ◉▶

6. Lubricate the lower hole jewel for the third wheel & pinion as illustrated.

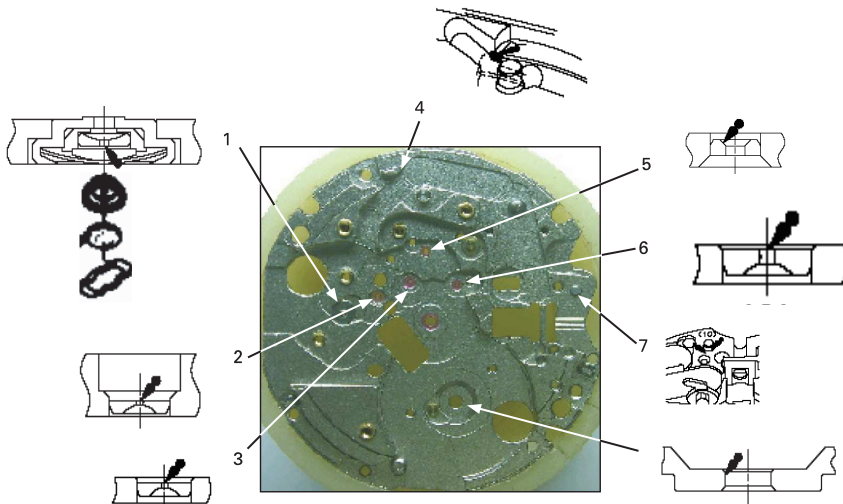
Type of oil: AO-3 (Moebius A) ●▶

7. Lubricate the pin of the setting lever as illustrated.

Type of oil: S-6 ◉▶

8. Lubricate the lower dent of the barrel complete as illustrated.

Type of oil: S-6 ◉▶



PARTS LIST

Cal. 6R15B/6R15C

2 REASSEMBLE THE WHEELS (1)

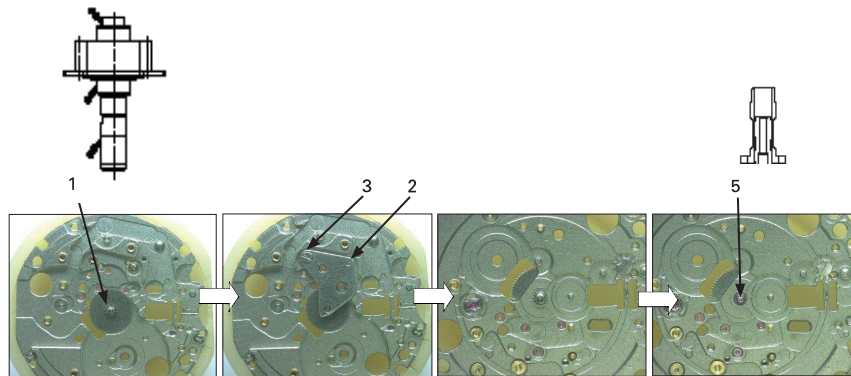
Install the parts in the order shown in the illustration below, paying attention to the following:
mounting positions
direction of mounting
type of oil, lubrication point(s) and amount of lubrication ●▶ Normal quantity

1. Lubricate the upper and lower pivots of the center wheel & pinion, and the point of contact between the center wheel and the cannon pinion as illustrated.

Install the center wheel & pinion.

Type of oil: S-6 ●▶

2. Set the center wheel bridge.
3. Tighten the center wheel bridge screw.
4. Turn the main plate reverse down.
5. Set the cannon pinion to the center wheel & pinion.



- 4 Turn the main plate reverse down.

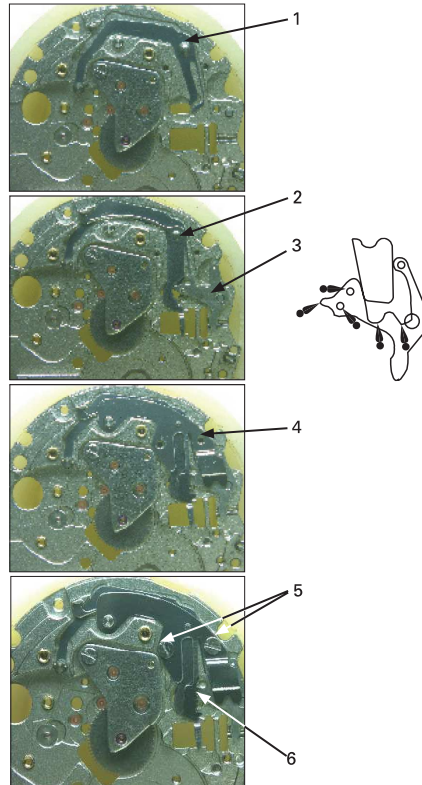
PARTS LIST

Cal. 6R15B/6R15C

3 REASSEMBLE THE SWITCHING MECHANISM (FRONT SIDE)

Install the parts in the order shown in the illustration below, paying attention to the following:
mounting positions
direction of mounting
type of oil, lubrication point(s) and amount of lubrication ●▶ Normal quantity

1. Set the balance stop lever.
2. Set the yoke.
3. Lubricate the upper and lower places of the setting lever and the point of contact between the setting lever and yoke as illustrated.
Type of oil: S-6 ●▶
4. Set the yoke spring.
5. Tighten the yoke spring screws. (2 pcs.)
6. Hook the setting lever over the spring portion of the yoke.



PARTS LIST

Cal. 6R15B/6R15C

4 REASSEMBLE THE WHEELS (2)

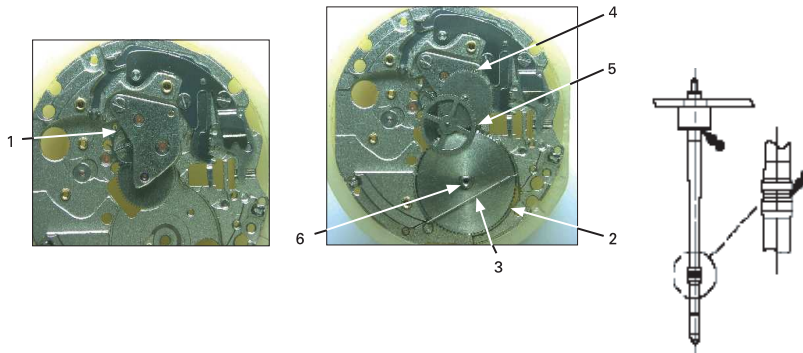
Install the parts in the order shown in the illustration below, paying attention to the following:
mounting positions
direction of mounting
type of oil, lubrication point(s) and amount of lubrication ●▶ Normal quantity

1. Set the escape wheel & pinion.
2. Set the barrel complete.
3. Set the click.
4. Set the third wheel & pinion.
5. Lubricate the lower pinion and the convex part of the fourth wheel & pinion as illustrated.
Install the fourth wheel & pinion.

Type of oil: AO-3 (Moebius A) ●▶

6. Lubricate the upper pivot of the barrel complete .

Type of oil: S-6 ○▶



TECHNICAL GUIDE

Cal. 6R15B/6R15C

5 REASSEMBLE THE WHEELS (BARREL & TRAIN WHEEL BRIDGE)

Install the parts in the order shown in the illustration below, paying attention to the following:
 mounting positions
 direction of mounting
 type of oil, lubrication point(s) and amount of lubrication ●▶ Normal quantity

1. Lubricate the upper cap jewel of the escape wheel & pinion as illustrated, and set the cap jewel and friction spring for the escape wheel.

Type of oil: AO-3 (Moebius A) ●▶

2. Lubricate the upper cap jewel of the third wheel & pinion as illustrated, and set the cap jewel and friction spring for the third wheel.

Type of oil: AO-3 (Moebius A) ●▶

3. Lubricate the lower hole jewel for the second reduction wheel as illustrated.

Type of oil: S-6 ◯▶

4. Lubricate the axle, under surface, teeth surface and lower pivot of the sliding crown wheel as illustrated.

Type of oil: S-6 ◯▶

5. Lubricate the shaft, both upper and lower surfaces and teeth surface of the crown wheel as illustrated.

Type of oil: S-6 ◯▶

6. Lubricate the hole jewel for the fourth wheel & pinion as illustrated.

Type of oil: AO-3 (Moebius A) ●▶

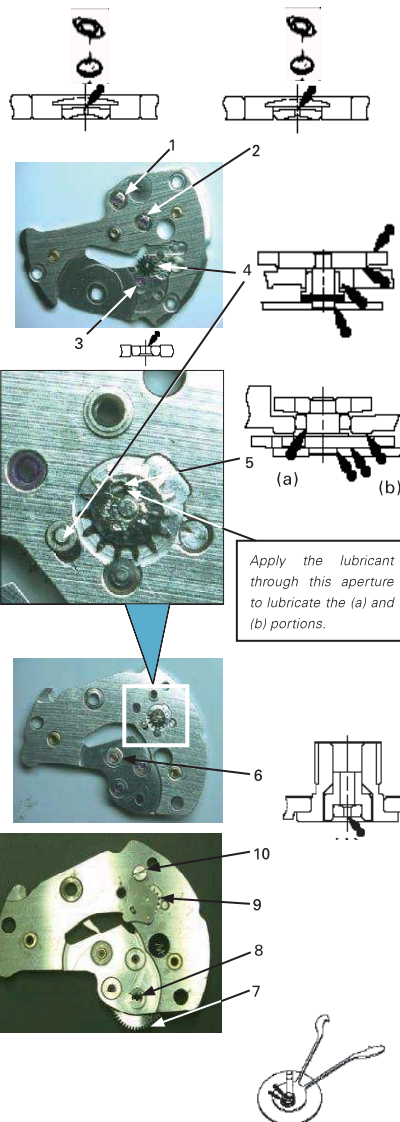
7. Lubricate the eccentric shaft of the first reduction wheel as illustrated. Set the pawl lever. Lubricate the upper pivot of the first reduction wheel.

Type of oil: S-4 ◻▶

8. Set the first reduction wheel with the pawl lever to the barrel & train wheel bridge, and fix it with the reduction wheel holder.

9. Set the lower plate for barrel & train wheel bridge.

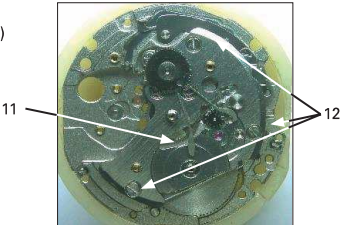
10. Tighten the screws for lower plate for barrel & train wheel bridge.



TECHNICAL GUIDE

Cal. 6R15B/6R15C

- 11. Set the barrel & train wheel bridge.
- 12. Tighten the pins for barrel & train wheel bridge screws (3pcs.)



6 REASSEMBLE THE WHEELS ON THE BACK SIDE (1)

Install the parts in the order shown in the illustration below, paying attention to the following:
 mounting positions
 direction of mounting
 type of oil, lubrication point(s) and amount of lubrication ●▶ Normal quantity

* Turn the main plate reverse down, so that the bottom surface is now the top.

- 1. Lubricate the pin of the day-date corrector setting transmission wheel B as illustrated.

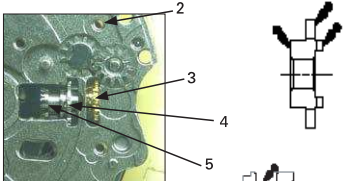
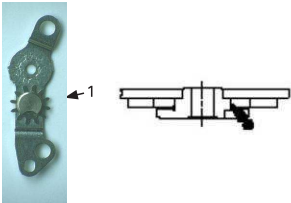
Type of oil: S-6 ●▶

- 2. Set the day-date corrector setting transmission wheel C.
- 3. Set the day-date corrector setting transmission wheel A.
- 4. Lubricate and set the winding pinion as illustrated.

Type of oil: S-6 ●▶

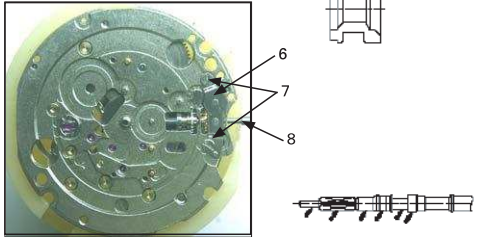
- 5. Lubricate and set the clutch wheel as illustrated.

Type of oil: S-6 ●▶



- 6. Set the guard for day-date corrector setting transmission wheel.
- 7. Tighten the guard for day-date corrector setting transmission wheel screws. (2 pcs.)
- 8. Lubricate the winding stem as illustrated and set it.

Type of oil: S-6 ●▶



❖ Try pulling out the winding stem to the first and second click positions in order to check that it can be done smoothly.

TECHNICAL GUIDE

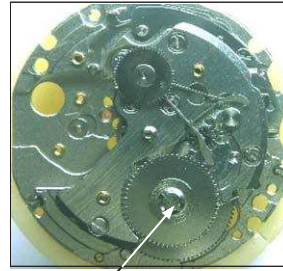
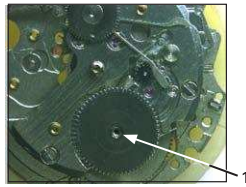
Cal. 6R15B/6R15C

7 REASSEMBLE THE WHEELS (RATCHET WHEEL)

1. Slide the pawl lever aside to make the ratchet wheel setting easier.
Set the ratchet wheel correctly.
2. Tighten the ratchet wheel screws. (2 pcs.)

❖ **Remarks**

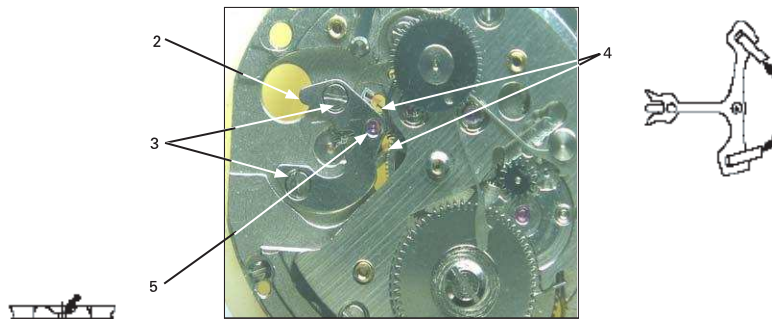
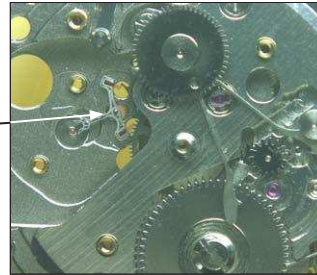
*Do not tighten the ratchet wheel screws too hard, as doing so can cause the tightening torque to become too large.
(Standard tightening torque: 250g-cm)*



8 REASSEMBLE THE ESCAPEMENT.

Install the parts in the number order shown in the illustration below, paying attention to the followings:
mounting positions
direction of mounting
type of oil, lubrication point(s) and amount of lubrication ●▶ Normal quantity

1. Set the pallet fork.
2. Set the pallet bridge.
3. Tighten the pallet bridge screws.
4. Lubricate the arms of the pallet fork as illustrated.
Type of oil: AO-3 (Moebius A) ●▶
5. Lubricate the upper hole jewel for the pallet fork as illustrated.
Type of oil: AO-3 (Moebius A) ●▶



TECHNICAL GUIDE

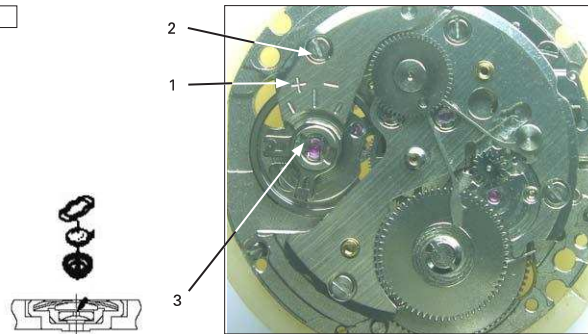
Cal. 6R15B/6R15C

9 REASSEMBLE THE BALANCE STAFF

Install the parts in the order shown in the illustration below, paying attention to the following:
mounting positions
direction of mounting
type of oil, lubrication point(s) and amount of lubrication ●▶ Normal quantity

1. Set the balance complete with stud and balance bridge.
2. Tighten the balance bridge screw.
3. Lubricate the upper shock-absorbing cap jewel as illustrated, and set it to the upper hole jewel with frame for shock-absorber. Then, mount the upper hole jewel with frame for shock-absorber (with the cap jewel attached) to the upper shock-absorbing frame, and hook the upper shock-absorbing spring over it.

Type of oil: AO-3 (Moebius A) ●▶



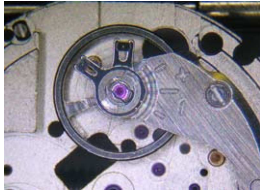
TECHNICAL GUIDE

Cal. 6R15B/6R15C

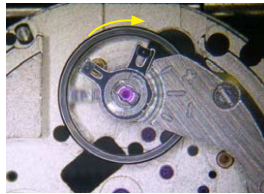
10 HOW TO REMOVE AND INSTALL THE BALANCE STAFF

How to remove

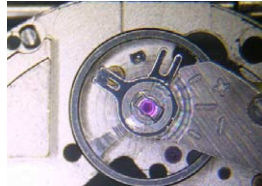
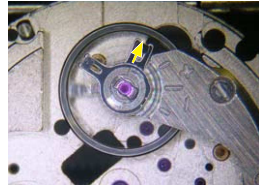
1. Initial phase
Set the balance complete with stud and balance bridge to the main plate.



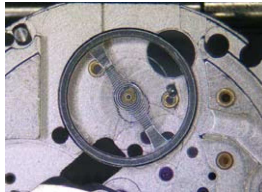
2. Move the stud support toward the balance bridge until it is attached to the balance bridge.
* When doing so, make sure that the outer end of the hairspring is not removed from the regulator arm.



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.

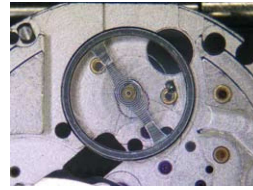


4. Remove the balance bridge and replace the balance complete with stud with a new one.

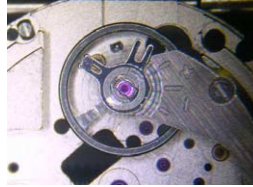


How to install

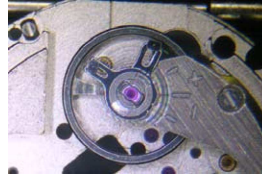
1. Initial phase
Set a new balance complete with stud to the main plate.



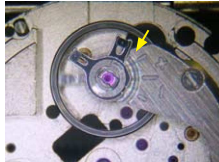
2. Set the balance bridge and tighten the balance bridge screw.



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.



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.

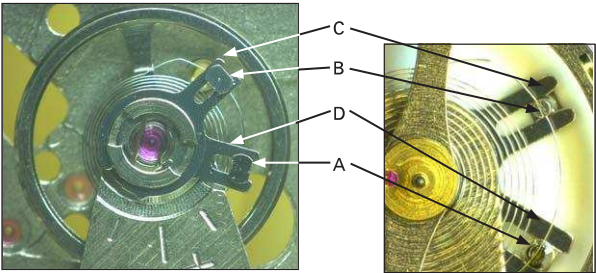


TECHNICAL GUIDE

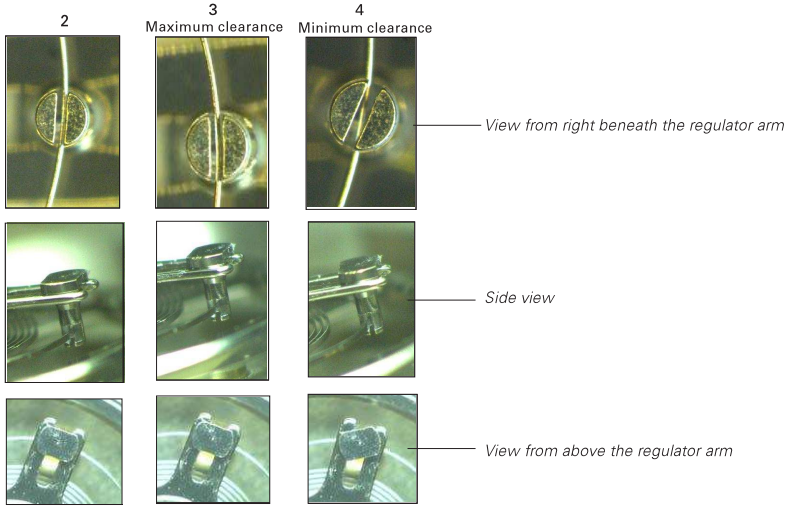
Cal. 6R15B/6R15C

11 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.



TECHNICAL GUIDE

Cal. 6R15B/6R15C

12 REASSEMBLE THE WHEELS (BARREL & TRAIN WHEEL BRIDGE)

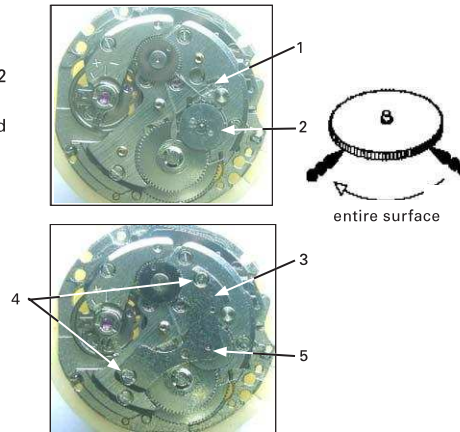
Install the parts in the order shown in the illustration below, paying attention to the following:
 mounting positions
 direction of mounting
 type of oil, lubrication point(s) and amount of lubrication ●▶ Normal quantity ●●▶ Large quantity

1. Set the ratchet sliding wheel spring.
2. Lubricate the teeth surface of the second reduction wheel as illustrated, and then set it. Engage the pawl lever with the second reduction wheel.

Type of oil: S-6 ●▶

3. Set the automatic train bridge.
4. Tighten the automatic train wheel screws. (2 pcs.)
5. Lubricate the upper hole jewel for the second reduction wheel guide as illustrated.

Type of oil: S-6 ●▶

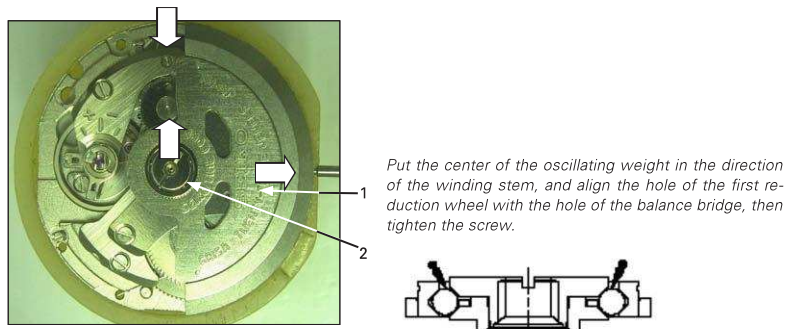


13 REASSEMBLE THE OSCILLATING WEIGHT

Install the parts in the order shown in the illustration below, paying attention to the following:
 mounting positions
 direction of mounting
 type of oil, lubrication point(s) and amount of lubrication ●▶ Normal quantity

1. Set the oscillating weight and tighten the screw in the center using a large screwdriver.
 ♦ *Make sure that the oscillating weight is correctly positioned.*
2. Lubricate the bearing of the oscillating weight.

Type of oil: AO-3 (Moebius A) ●●▶



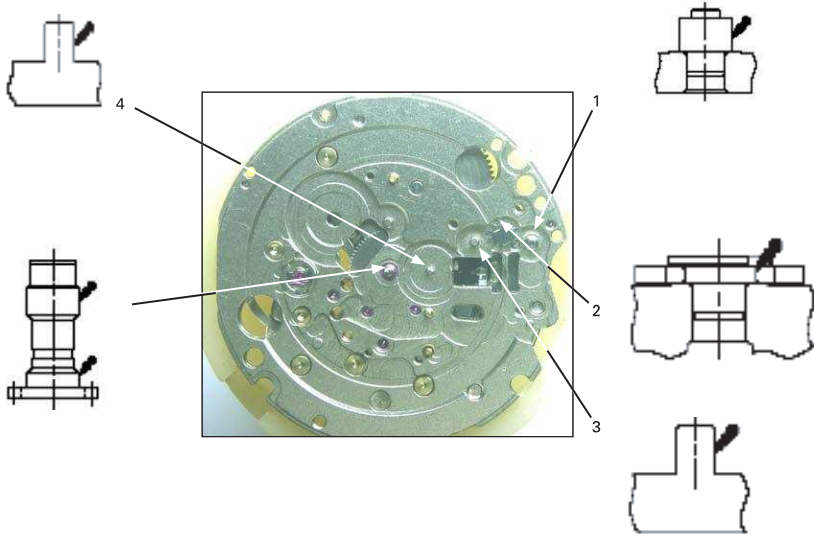
TECHNICAL GUIDE

Cal. 6R15B/6R15C

14 REASSEMBLE THE TRAIN WHEEL ON THE BACK (LUBRICATE THE MAIN PLATE)

Install the parts in the order shown in the illustration below, paying attention to the following:
mounting positions
direction of mounting
type of oil, lubrication point(s) and amount of lubrication ●▶ Normal quantity

1. Lubricate the pin for the day-date corrector setting transmission wheel C as illustrated.
Type of oil: S-6 ●▶
2. Lubricate the pin for the day-date corrector setting transmission wheel D as illustrated.
Type of oil: S-6 ●▶
3. Lubricate the pin for the day-date corrector setting transmission wheel E as illustrated.
Type of oil: S-6 ●▶
4. Lubricate the pin for the minute wheel & pinion as illustrated.
Type of oil: S-6 ●▶
5. Lubricate the lateral surface of the cannon pinion as illustrated.
Type of oil: S-6 ●▶



TECHNICAL GUIDE

Cal. 6R15B/6R15C

15 REASSEMBLE THE WHEELS ON THE BACK (2)

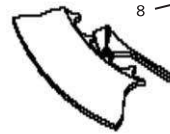
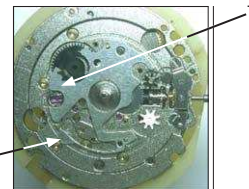
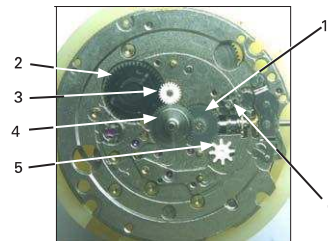
Install the parts in the number order shown in the illustration below, paying attention to the followings:
mounting positions
direction of mounting
type of oil, lubrication point(s) and amount of lubrication ●▶ Normal quantity

1. Set the minute wheel & pinion.
2. Set the date indicator driving wheel.
3. Set the intermediate date driving wheel & pinion.
4. Set the hour wheel.
5. Set the day-date corrector setting wheel.
6. Set the intermediate wheel for calendar correction E.
7. Set the date jumper.

Slide in the date jumper from the side, paying attention so as not to scratch it against the date driving tab of the date indicator driving wheel. Make sure that the date jumper is correctly positioned and then set it.

8. Lubricate the spring portion of the date jumper as illustrated.

Type of oil: S-6 ●▶



TECHNICAL GUIDE

Cal. 6R15B/6R15C

16 REASSEMBLE THE WHEELS ON THE BACK (3)

Install the parts in the number order shown in the illustration below, paying attention to the followings:
mounting positions
direction of mounting
type of oil, lubrication point(s) and amount of lubrication ●▶ Normal quantity

1. Lubricate the pin for the day-date corrector setting transmission wheel F as illustrated.

Type of oil: S-6 ●▶

2. Set the date indicator.
3. Set the date indicator maintaining plate.
4. Tighten the date indicator maintaining plate screws A. (3 pcs.)
5. Tighten the date indicator maintaining plate screw B.

