No.	PROSESS
	Assembling the
	switching unit
91	Set the main plate.
	\downarrow
90	Set the lead pin for RZ1.
	\downarrow
89	Set the hour and minute stator.
	\
88	Set the second stator.
	↓
87	Set the generating stator.
	\
86	Set the rechargeable battery connection (+).
	1
85	Set the 1 st intermediate wheel for calendar corrector.
	\
84	Set the clutch wheel.

ILLUSTRATIONS AND SPECIAL INSTRUCTIONS

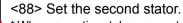
<91> Set the main plate.

<86> Set the rechargeable battery connection (+).

<87> Set the generating stator.
*Distinction from the 5J-series counterpart
See the red-circled parts, which are shaped to identify the 7J-series generating stator.

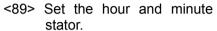


*When mounting, take care not to distort or deform the generating stator. (To prevent deterioration of electric power generation)



* When mounting, take care not to distort or deform the second stator.

(To prevent deterioration of the motor)



*When mounting, take care not to distort or deform the hour and minute stator.

(To prevent deterioration of the motor.)

<84> Set the clutch wheel.

<85> Set the 1st intermediate wheel for calendar corrector.

<90> Set the lead pin for RZ1.

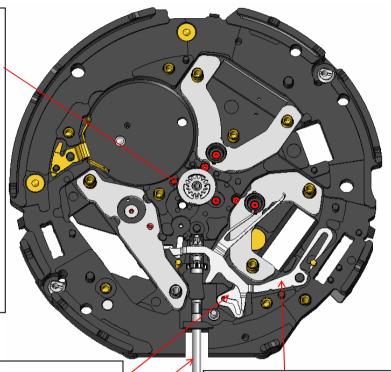
*Ensure that the lead pin for RZ1 is tightly mounted without any clearance.

No. **PROSESS** Assembling switching unit Set and lubricate 83 the winding stem. Set and lubricate 82 the center wheel & pinion. Set the train wheel 81 setting lever. Set the yoke and 80 hook the arm of it. Lubricating points of the switching unit-1 -Stem of the setting lever -Point of contact between the voke and clutch wheel -Lower pivots of the wheels (4#, 3#, 50#, 75#) -Guiding slit of the train wheel setting lever

ILLUSTRATIONS AND SPECIAL INSTRUCTIONS

- <82> Set and lubricate the center wheel & pinion.
- *Lubricating point: convex part (Refer to the illustration below.) *Type of oil, oil quantity: A0-3II-1
- (To prevent parts from wearing)
- *Lubricating point: inner edge of the ring (Refer to the illustration below.)
- *Type of oil, oil quantity: A0-3II-1 (To prevent parts from wearing)





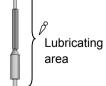
<81> Set the train wheel setting lever.

<83> Set and lubricate the winding stem.

*Type of oil, oil quantity: A0-3 Lubricate the entire profile of the winding stem.

(To prevent parts from wearing)

*Securely install the winding stem, giving it gentle rotations so that the flat face of the winding stem will be engaged with both the clutch wheel and the 1st intermediate wheel for calendar corrector.



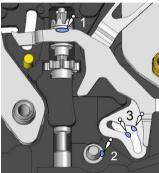
<80> Set the yoke and hook the arm of it.

Securely set the arm of the yoke inside the pin, taking care not to deform or damage the yoke.

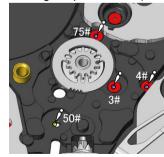


Lubricating points of the switching unit-1

- Point of contact between the yoke and clutch wheel
- *Type of oil, oil quantity: A0-3III-1 (To prevent parts from wearing)



- 2. Axes of the setting lever
- *Type of oil, oil quantity: A0-3II-1 (To prevent parts from wearing)
- 3. Guiding slit of the train wheel setting lever
- *Type of oil, oil quantity: A0-3I-2 (To prevent parts from wearing)
- 4. Lower pivots of the wheels (4#, 3#, 50#, 75#)
- *Type of oil, oil quantity: A0-3II-1 (To maintain good performance)



PROSESS No. Set the setting 79 lever. Set the setting lever 78 spring. Tighten the setting 77 lever spring. (33#) Hook the arm of the setting lever. Lubricating points of the switching unit-2 -Point of engagement between the voke and setting lever

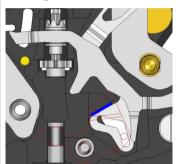
-Point of contact between the yoke and setting lever

-Axis of the setting

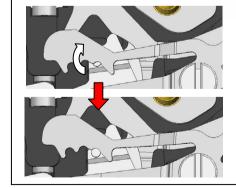
wheel

<79> Set the setting lever. *Before setting the setting lever.

*Before setting the setting lever, put the train wheel setting lever inside the frame of the main plate (as illustrated in blue). This will make the engagement between the pin of the setting lever and the guiding slit of the train wheel setting lever easier.



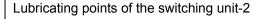
Hook the arm of the setting lever.



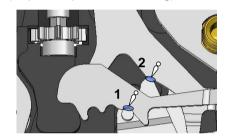
<78> Set the setting lever spring.

<77> Tighten the setting lever spring.

ILLUSTRATIONS AND SPECIAL INSTRUCTIONS



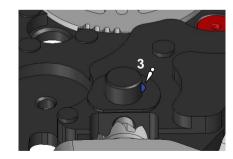
- 1. Point of engagement between the yoke and setting lever
 - *Type of oil, oil quantity: A0-3II-1 (To prevent parts from wearing)
- 2. Point of contact between the yoke and setting lever
 - *Type of oil, oil quantity: A0-3II-1 (To prevent parts from wearing)



3. Axis of the setting wheel

*Type of oil, oil quantity: A0-3II-1

(To prevent parts from wearing)

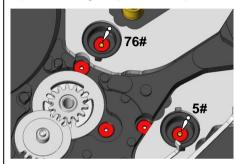


PROSESS No. Assembling the wheels Lubricate the lower pivots of the wheels. Set the spacer for center wheel and 76 pinion. Set and lubricate 75 the minute wheel & pinion. Set the 74 intermediate minute wheel. Set the setting 73 wheel. Set the hour and 72 minute rotor. Set the second 71 rotor. Set the generating 70 rotor.

ILLUSTRATIONS AND SPECIAL INSTRUCTIONS

Lubricate the lower pivots of the wheels.

*Type of oil, oil quantity: A0-2II-1 (To maintain good performance)



<76> Set the spacer for center wheel and pinion. *Firmly press down the point of

engagement to securely set it without any clearance.

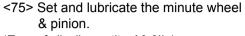


<70> Set the generating rotor.

<73> Set the setting wheel. *The setting wheel is reversible.

<71> Set the second rotor.

* Make sure to set the correct rotor. (The second rotor and the hour and minute rotor are different in their specification.)



*Type of oil, oil quantity: A0-3II-1 (To prevent parts from wearing)



<74> Set the intermediate minute wheel.

*Make sure the intermediate minute wheel is put in the correct direction. (See the illustration below.)



<72> Set the hour and minute rotor. *Make sure to set the correct rotor. (The hour and minute rotor and the second rotor are different in their specification.)

Distinction between the hour and minute rotor and the second rotor

Hour and minute rotor Second rotor





PROSESS ILLUSTRATIONS AND SPECIAL INSTRUCTIONS No. Set the 3rd wheel & <69> Set the 3rd wheel & pinion. 69 <67> Set the intermediate second wheel. pinion. * The 3rd wheel & pinion has three holes for distinction from the 5J2-series counterpart. Set the 4th wheel & 68 pinion. <68> Set the 4th wheel & pinion. *The 4th wheel & pinion has four holes for distinction from the Set the 5J2- series counterpart. 67 intermediate second wheel. Lubricate the 66 second wheel & <64> Tighten the train wheel bridge pinion. screw. Set the train wheel 65 bridge and check the pivot hole. Tighten the train 64 wheel bridge screw. <66> Lubricate the second wheel & pinion. *Lubricating points: convex part (Refer to the illustration below.) *Type of oil, oil quantity: A0-3II-1 <65> Set the train wheel bridge (To prevent parts from wearing) and check the pivot hole. Lubricate with an appropriate amount of oil, as excessive lubrication may cause the second hand to wiggle while the watch resumes from power save mode.

PROSESS		ILLUCTRATIONS AND ODESIAL INSTRUCTIONS		
TROOLOG	ILLUSTRATIONS AND SPECIAL INSTRUCTIONS			
eels. 4#, 3#, 74#, 75#, lee teeth of the generating rotor Set the hour and minute coil block. Set the second coil block. Set the generating coil block. Check each coil	Check each coil block resistance. *Measure the coil block resistance after securely installing each coil block to the movement. Hour and minute coil block Coil block for driving: $1.00k\Omega-1.25k\Omega$ Coil block for detection: $270\Omega-330\Omega$ Second coil block $2.00k\Omega-2.45k\Omega$ Generating coil block $360\Omega-420\Omega$	<62> Set the second coil block. *When mounting the second coil block core. (To prevent deterioration of the motor) Lubricate the upper pivot ♦ 5#, 76# *Type of oil, oil quantity: A((To maintain good perforr ♦ 4#, 3#, 74#, 75# *Type of oil, oil quantity: A((To maintain good perforr ♦ Tips of the teeth of the protor (66#) *Type of oil, oil quantity: A((To prevent parts from we) Pattern for checking the coil	0-2II-1 mance) 0-3II-1 mance) 0-3II-2 paring) 0-3II-2 paring)	
	<61> Set the generating coil block. *When mounting the generating coil block, take care not to deform or deform the coil block core. (To prevent deterioration of the motor)	<63> Set the hour and minute when mounting the hour and care not to distort or deform to the care not to deterioration of the contract of the care not to deterioration of the care not to deterioration of the care not to distort or deform to the care not to the care not to distort or deform to the care not to distort or deform to the care not to the car	d minute coil block, take he coil block core. ne motor)	
	e the upper pivots leels. 4#, 3#, 74#, 75#, lee teeth of the generating rotor Set the hour and minute coil block. Set the second coil block. Check each coil block leach coil block resistance.	#eels. 4#, 3#, 74#, 75#, be teeth of the generating rotor #Measure the coil block resistance after securely installing each coil block to the movement. #Hour and minute coil block Coil block for driving: 1.00kΩ−1.25kΩ Coil block for detection: 270Ω− 330Ω Second coil block 2.00kΩ − 2.45kΩ Generating coil block 360Ω − 420Ω *Measure the coil block resistance after securely installing each coil block for driving: 1.00kΩ−1.25kΩ Coil block for detection: 270Ω− 330Ω Second coil block 360Ω − 420Ω *Measure the coil block resistance after securely installing each coil block for driving: 1.00kΩ−1.25kΩ Coil block for detection: 270Ω− 330Ω Second coil block 360Ω − 420Ω *Measure the coil block coil block coil block for driving: 1.00kΩ−1.25kΩ Coil block for detection: 270Ω− 330Ω Second coil block 360Ω − 420Ω *Measure the coil block coil block coil block for driving: 1.00kΩ−1.25kΩ Coil block for detection: 270Ω−30Ω Set the generating coil block 360Ω − 420Ω *Measure the coil block coil block coil block for driving: 1.00kΩ−1.25kΩ Coil block for detection: 270Ω−30Ω Set the generating coil block 360Ω − 420Ω *Measure the coil block coil block coil block for driving: 1.00kΩ−1.25kΩ Coil block for detection: 270Ω−30Ω Set the generating coil block 360Ω − 420Ω	icels 44, 34, 744, 754, 754, 154 is etech of the generating rotor better the coil block resistance. Set the hour and minute coil block for driving: 1.00kΩ−1.25kΩ Coil block for driving: 1.00kΩ−2.45kΩ Generating coil block. Set the generating oil block. Check each coil block cresistance. Check each coil block resistance. Check each coil block. Check for first firs	

PROSESS No. Assembling the circuit Set the insulator for 60 circuit block. Check the current consumption for the circuit block. Set the circuit 59 block. Set and lubricate the intermediate 58 wheel for generating rotor.

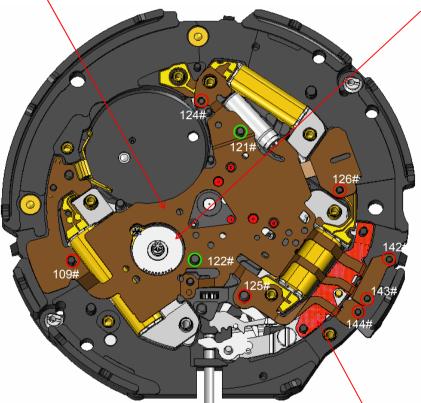
ILLUSTRATIONS AND SPECIAL INSTRUCTIONS

<59> Set the circuit block.

*Firmly press down the points of engagement to securely set it in position.

Positioning guide tubes : 121#, 124# (green-circled in the illustration.)

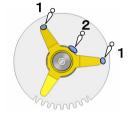
Points of engagement : 109#, 124#, 125#, 126#, 142#, 143#, 144# (red-circled in the illustration)



<58> Set and lubricate the intermediate wheel for generating rotor.

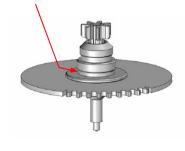
Position (1) shown in the illustration below *Type of oil, oil quantity: A0-3II-2 (To prevent parts from wearing)

Position (2) shown in the illustration below *Type of oil, oil quantity: A0-3II-1 (To prevent parts from wearing)

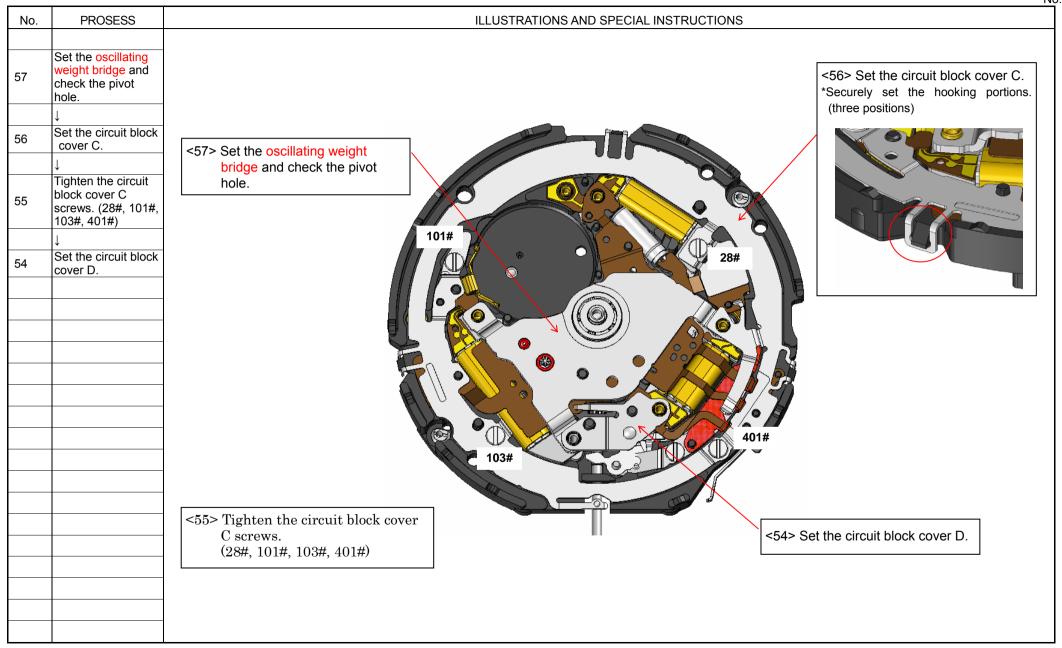


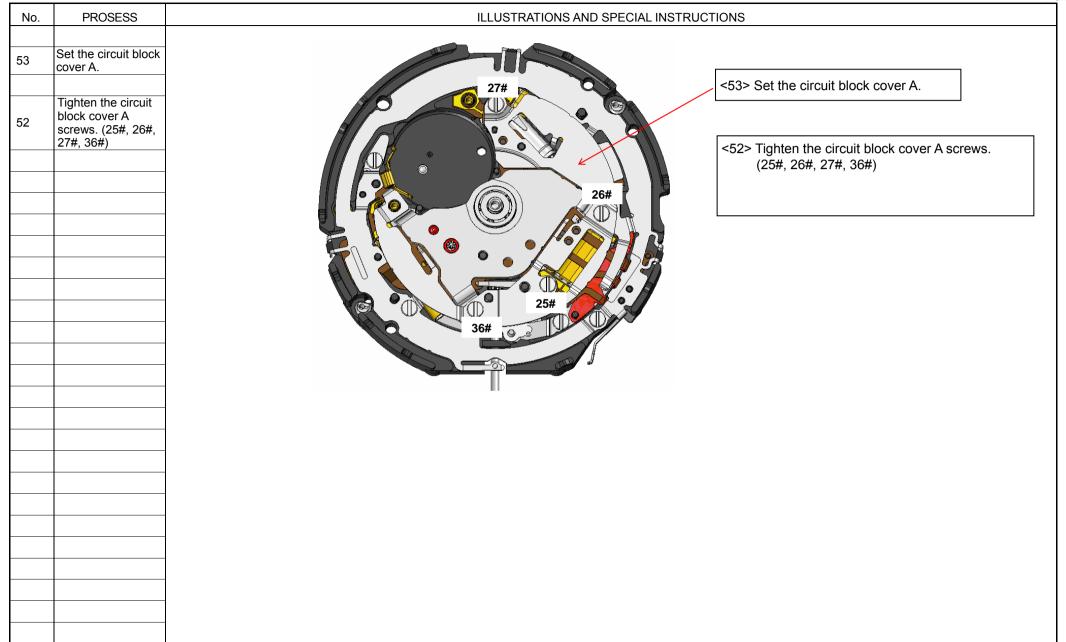
*Distinction between the 7D-series intermediate wheel for generating rotor and the 5J-series counterpart

At the position shown by the red arrow, the 7D-series intermediate wheel for generating rotor has a groove, while the 5J-series counterpart does not.



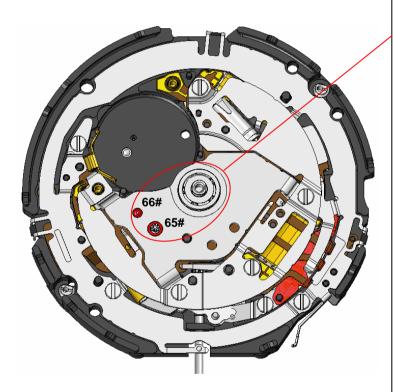
<60> Set the insulator for circuit block.





No.	PROSESS
	Lubricate the upper pivots of the wheels. (66#, 65#, bearings of the wheels)
	Measure the current consumption.

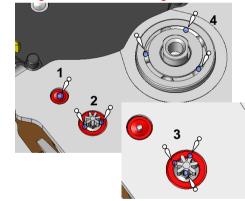
ILLUSTRATIONS AND SPECIAL INSTRUCTIONS



Lubricate the upper pivots of the wheels.

- 1. 66# upper pivot
- *Type of oil, oil quantity: A0-3II-2 (To prevent parts from wearing)
- 2. 65# upper pivot
- *Type of oil, oil quantity: A0-3II-2 (To prevent parts from wearing)
- 3. 65# pinion
- *Type of oil, oil quantity: A0-3II-3 (To prevent parts from wearing)
- 4. Bearings of the wheels
- *Type of oil, oil quantity: A0-3II-3 (To prevent parts from wearing)

Note) Additionally, you may lubricate the gap between the inner ring axis and the outer ring axis.



PROSESS ILLUSTRATIONS AND SPECIAL INSTRUCTIONS No. Assembling the power section <7> Set the rechargeable battery unit. Set the *Stretching out the plus terminal to mount the rechargeable battery unit. rechargeable *Take care not to deform the minus terminal when removing the battery unit. rechargeable battery unit. (Remove the battery portion first.) <6> Set the insulator for rechargeable battery. Set the insulator for *Firmly press down the points of engagement rechargeable 102# (132#, 107#) to securely set it in position. battery. -Positioning guide tubes: 131#, 132# -Points of engagement: 132#, 107# Set the rechargeable 5 battery clamp. Tighten the <5> Set the rechargeable battery clamp. rechargeable *Firmly press down the point of engagement (132#) to battery clamp securely set it in position. screws. (102#, -Positioning guide tubes: 132#, 107# 35#) 35# -Point of engagement: 132# <4> Tighten the rechargeable battery clamp screws. (102#, 35#)

