

PARTS CATALOGUE/ TECHNICAL GUIDE

Cal. 7M Series

SUPPLEMENT

1. POINTS OF REPAIRING THE AUTOMATIC GENERATING SYSTEM

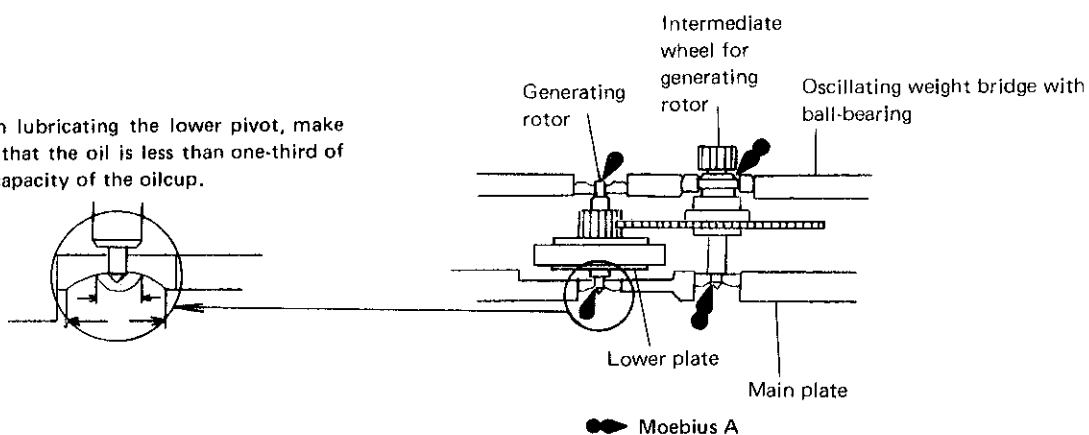
Problems of oscillating weight	Causes	Remedies
will not turn	<ul style="list-style-type: none">• The oscillating weight touches the other parts of the movement.• Oscillating weight screw is loosened.• Parts of the train wheel for power generation are broken.	<ul style="list-style-type: none">• Replace the parts with new ones or repair.• Repair.• Replace the parts with new ones and repair.
turns too smoothly	<ul style="list-style-type: none">• Wire of the generating coil is broken.• The train wheel for power generation is not calked securely.	<ul style="list-style-type: none">• Replace the part with a new one and repair.• Replace the parts with new ones and repair.

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2. NOTES ON REPAIRING CAL. 7M WATCHES

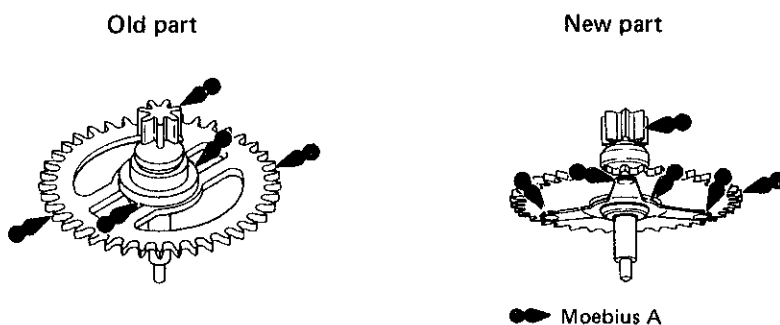
1. Even when the power generating mechanism is found defective, be sure to check and repair the driving unit.
2. When measuring the current consumption, start measurement more than 16 seconds after turning on the power.
3. Lubricate the generating rotor and the intermediate wheel for generating rotor in the quantity specified in the illustration.
If oil sticks to the parts other than the hole jewels for generating rotor, the generating rotor rotates at higher speed, scattering the oil in the oilcup.

When lubricating the lower pivot, make sure that the oil is less than one-third of the capacity of the oilcup.

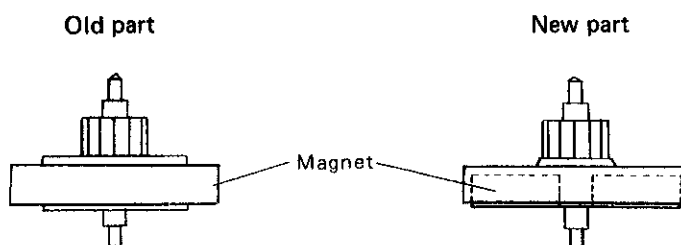


4. The structure of the intermediate wheel for generating rotor has been changed. (Its part code remains unchanged.)

● Lubricating



5. The structure of the generating rotor has been changed. (Its part code remains unchanged.)



6. After repairing, check the automatic generating system in addition to the regular checking procedures.

Checking the power generating efficiency

1. Swing the watch from side to side 100 times, and then check if the capacitor voltage increases more than 0.1V from the initial value.
2. For the relation between the number of swings and the increase of capacitor voltage, refer to the chart below.

Checking if the watch keeps operating

1. Swing the watch until the capacitor voltage reaches 0.9V.
2. Set hands to the current time.
3. After 12 hours, check if the watch is still operating.

Relation between the number of swings and the increase of capacitor voltage.

