

## REPAIRING AND CHECKING METHODS OF CAL, 7005A AND 7006A

When malfunctions exist in the automatic winding mechanism, phenomena can be roughly divided into the following two conditions:

- 1. Manually shaking the watch, rattling or scratching sounds are generated.
- 2. Manually shaking the watch, no sound is heard.

item	Cause of malfunction	Repairing method
	Broken ball bearing axle	Replace the ball bearing axle with a new one. Instruments for repairing: Staking tool Part No. 828002
	5 5	1) Pull out the broken ball bearing axle
		Punch
		Punch
		Stump
		Squeeze the hole for the ball bearing axle of the barrel and train wheel bridge by using the staking tool
1		Punch
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		Hole anvil
		3) Drive in a new ball bearing axle
		Ball bearing axle
	500 Maria 1970 Maria 1	Ball bearing axie
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Item	Cause of malfunction	Repairing method
2	Oscillating weight is detached from the ball bearing	Replace the oscillating weight.  When tightening the screw for oscillating weight fork, use a special driver as below.  Clamping force should be three or four times that of the bridge screw for man's wrist watch.  Ball bearing
3	Warp of the oscillating weight.  As the oscillating weight is warped, it strikes against the plate, first reduction wheel, or case back.  Oscillating weight is too high  Oscillating weight is too low  Note: Take care so that the pushing strength of the ball bearing or the oscillating weight is not too heavy.	Correcting or replacing of the oscillating weight.  Adjust it by manually pressing the surrounding portion of the ball bearing.
4	Holding ring for ball bearing is split.  As the ball bearing is shaken, oscillating weight strikes against the plate and case back.	Replacing of the oscillating weight  Part No. Cal. 7001, 7005, 7006

## B. When shaking the watch, no sounds are generated.

Item	Cause of malfunction	Repairing method
	Pawl lever is excessively opened.	Correct the pawl lever
	The second reduction wheel is not rotated because the tips of the pawl lever are opened too much.	Correct the lever so that the pulling finger tip comes halfway between the tooth bottom and the inner diameter of the wheel.
		Second reduction wheel
1		
		Pulling finger Pushing finger
	Split of the pawl lever	Replace the pawl lever
	The second reduction wheel is not rotated because the tip of the pawl lever is opened by it's splitting too much.	Part No. Cal. 7001, 7005, 7006, 7019
2		
	Split	