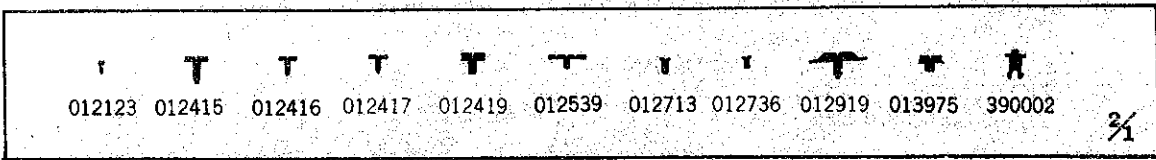
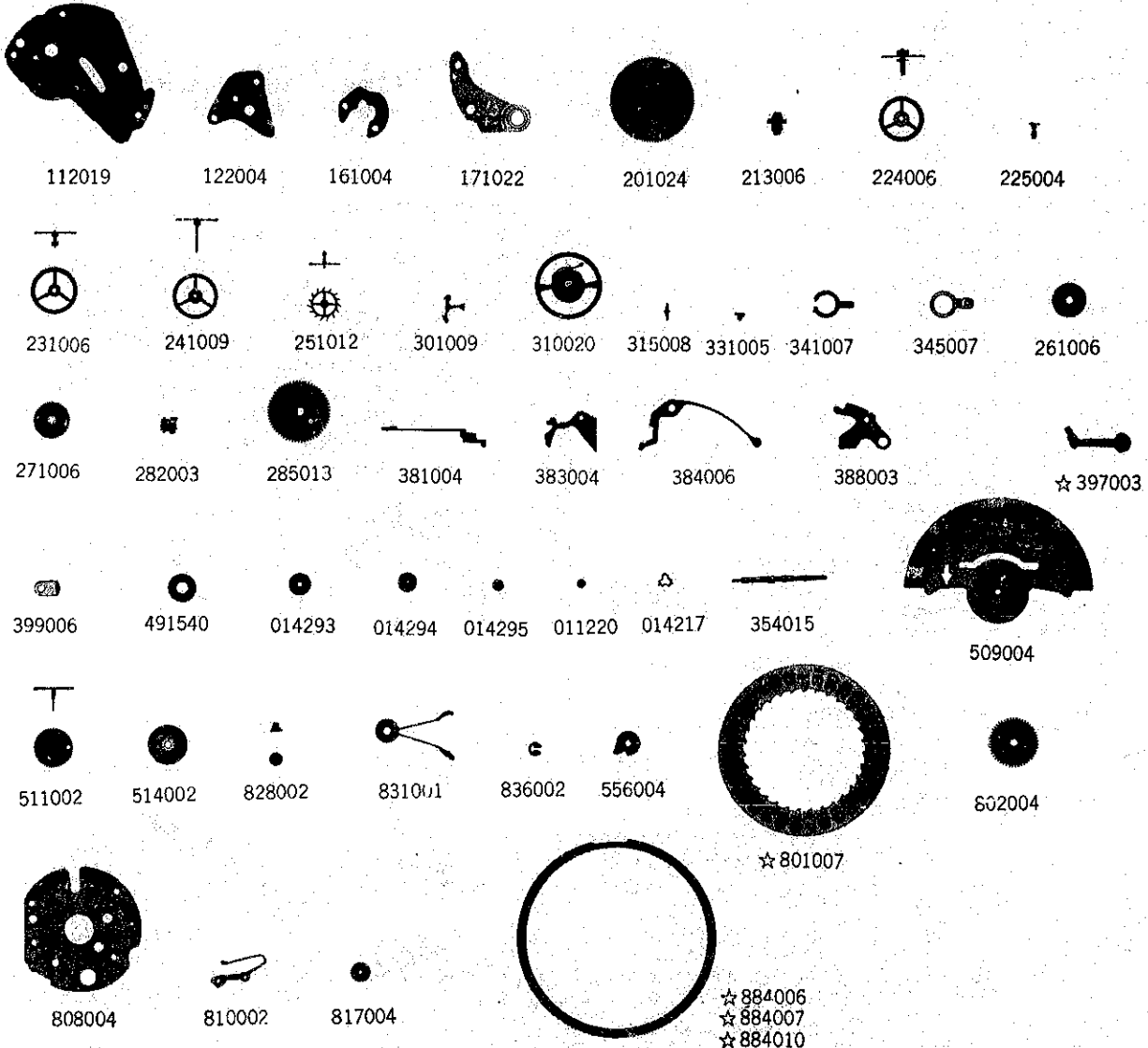


Cal. 7005A

### Characteristics

Casing diameter : 27.00  $\phi$  mm  
 Maximum height : 4.50 mm  
 Vibrations per hour : 21,600  
 Automatic winding with sweep second  
 Calendar (date)  
 Instant date setting  
 "Diashock" Shock Resistant Device



(71-2)

☆ ⇨ Please see remarks on the reverse page.

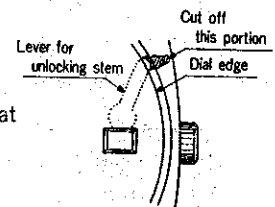
Calibre No. <b>7005A</b>	Jewels <b>17j</b>	Style Name
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PART NO.	LIST OF MATERIALS	PART NO.	LIST OF MATERIALS
112019	Barrel & train-wheel bridge	828002	Oscillating weight arbor
122004	Center wheel bridge	831001	Pawl lever
161004	Pallet cock	836002	First reduction wheel holder
171022	Balance cock	556004	Date finger
201024	Complete barrel with arbor & mainspring	☆ 801007	Date dial
213006	Barrel arbor	802004	Date driving wheel
224006	Center wheel & pinion with cannon pinion	808004	Date dial guard
225004	Cannon pinion	810002	Date jumper
231006	Third wheel & pinion	817004	Intermediate date wheel
241009	Sweep second wheel & pinion	☆ 884006	Holding ring for dial
251012	Escape wheel & pinion	☆ 884007	
261006	Minute wheel	☆ 884010	
271006	Hour wheel	012123	Stud screw
282003	Clutch wheel	012415	Bridge screw
285013	Ratchet wheel	012416	Center wheel bridge screw
301009	Jewelled pallet fork & staff	012417	Pallet cock screw
310020	Balance complete with stud	012419	Casing clamp screw
315008	Balance staff	012539	Second reduction wheel screw
331005	Roller with jewel	012713	Setting lever spring screw
341007	Regulator	012736	Date dial guard screw
345007	Stud holder	012919	Ratchet wheel screw
354015	Winding stem	011715	Upper hole jewel for center wheel
361004	Click	011146	Lower hole jewel for center wheel
383004	Setting lever	011321	Upper hole jewel for 3rd wheel
384006	Yoke (Clutch lever)	011540	Lower hole jewel for 3rd wheel
388003	Setting lever spring	011322	Upper hole jewel for escape wheel
390002	Setting lever axle	011322	Lower hole jewel for escape wheel
☆ 397003	Lever for unlocking stem	011505	Upper hole jewel for pallet
399006	Casing clamp	011505	Lower hole jewel for pallet
491540	Dial washer	011162	Upper hole jewel for 1st reduction wheel
014293	Diashock upper frame	011151	Lower hole jewel for 1st reduction wheel
014294	Diashock lower frame	013009	Tube for bridge screw
014295	Diashock hole jewel with frame	013197	Tube for 2nd reduction wheel screw
011220	Diashock cap jewel	013198	Tube for pallet cock screw
014217	Diashock spring	013975	Eccentric dial pin
509004	Oscillating weight with ball-bearing		
511002	First reduction wheel		
514002	Second reduction wheel		

**Remarks :**

**Lever for unlocking stem**

☆ 397003 ..... Used only for the one-piece waterproof case.  
Adjust the tail length of the lever for unlocking stem by cutting so that the tail may not touch the case and project over the dial for pushing.



**Date dial**

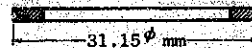
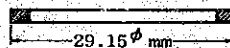
☆ 801007 ..... Used when both the crown and the date frame are located at 3 o'clock.  
If the date dial is required in any other type, specify ① Cal. No. ② the crown position ③ the date frame position and ④ the dial No.

**Holding ring for dial** — Confirm the relative ring by measuring the sectional shape and the outside diameter.  
If the holding ring for dial is required in any other type, specify ① Cal. No. ② the dial No. and ③ the case No.

[☆ 884006]

[☆ 884007]

[☆ 884010]



☆ ⇨ Please see remarks.

Items in light letters are not shown in photos.

# 7005A

## 7005A Calendar setting mechanism

### 1) Specifications

Casing diameter	27.00 mm
Height	4.50 mm
Vibrations per hour	21,600
Automatic winding with sweep second	
Calendar	
Instant date setting device	

### 2) Features

This watch is rationally designed to an extremely high degree considering its simplicity in disassembling and assembling and its functional stability. As a result, parts involving screws, springs, and so forth are remarkably reduced.

Since disassembling and assembling operations are facilitated and the causes of malfunctions are reduced, handling becomes simple.

### 3) Disassembly and Assembly

Disassemble the watch according to the procedures shown in figures (1) to (45). Assemble the watch according to the procedures shown in figures (45) to (1).

### 4) Lubrication

Colored symbols printed in the figures show types of oil and lubrication points.

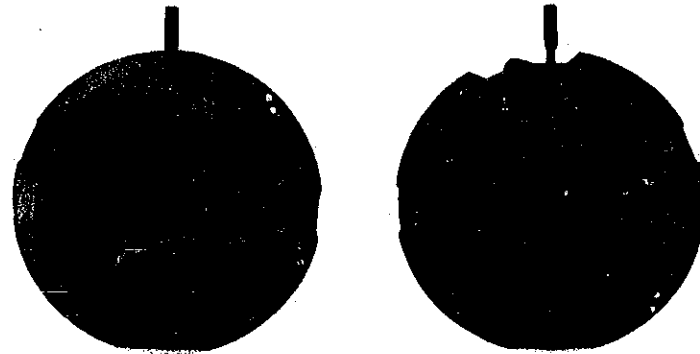
- ▶ Moebius Synt-A-Lube
- ▶ Seiko watch oil S-4.

Points where oil other than the above is used are separately indicated, and should be lubricated correctly according to instructions.

NOTE) Portions with no indications do not require lubrication.

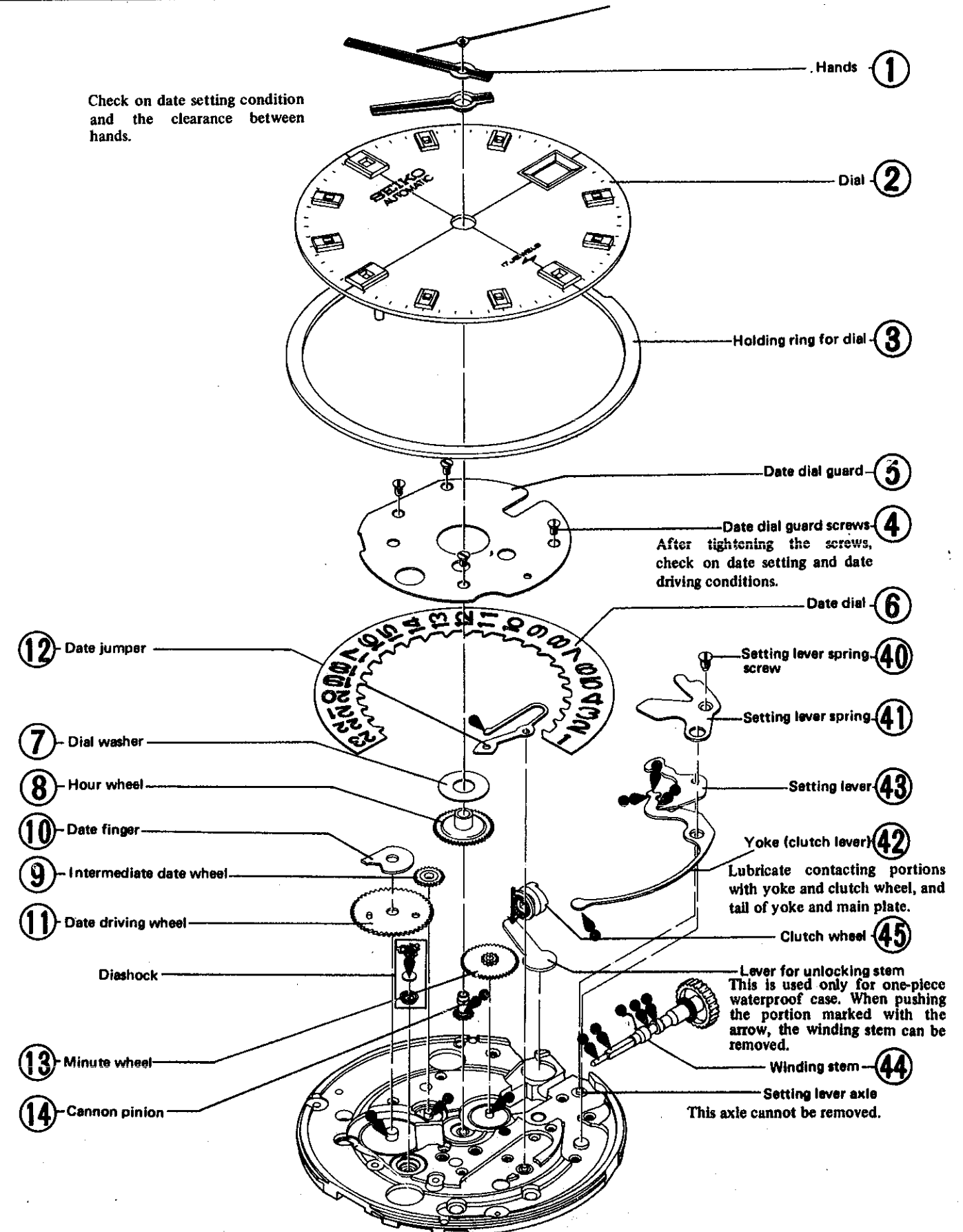
#### Oil quantity

- ▶ Extremely small quantity
- Normal quantity
- Sufficient quantity
- ⊗ Oil must not be applied



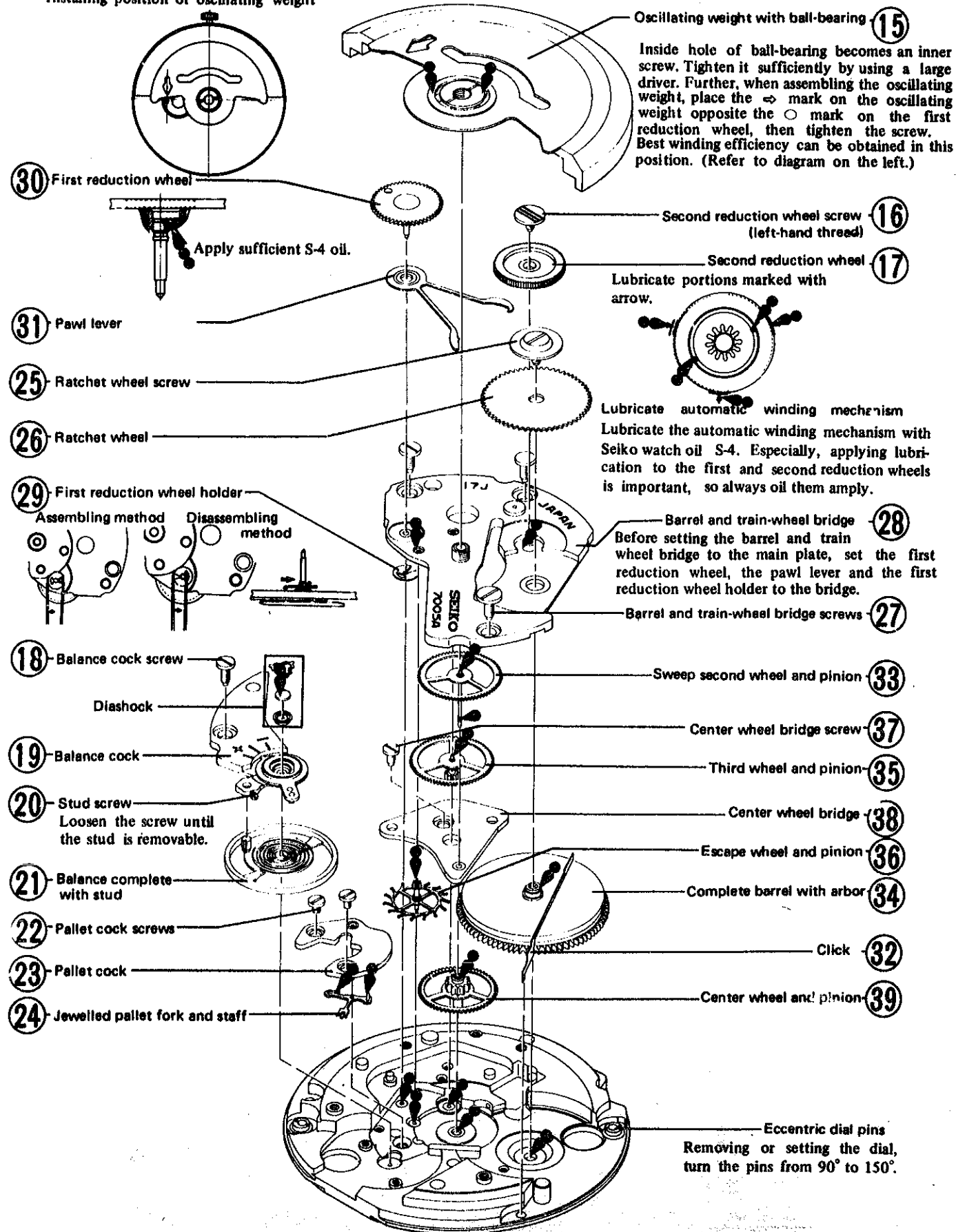
Enlarged movement

Check on date setting condition and the clearance between hands.



# 7005A Automatic winding, train wheel

Installing position of oscillating weight



# 7005A

## 6) Transmission of Force in Automatic Winding Mechanism

Oscillating weight → First reduction wheel → Pawl lever → Second reduction wheel → Ratchet wheel → Mainspring. Since the hole of ratchet wheel and the upper portion of the barrel arbor form a "D" shape, reassemble them after combining their corners (Fig. 1).

## 7) Hands and Date Setting Mechanisms

Crown first position:

This is a free condition. (Fig. 2)

Second position:

Ratchet teeth of the clutch wheel mesh with teeth of the date dial, and in this position, date setting can be achieved instantly when the crown is turned counterclockwise. There is no range in which date setting cannot be performed. (Fig. 3)

Third position:

Since the clutch wheel meshes with the minute wheel, the hands can be reset to the correct time.

Since there is no setting wheel, hand setting is performed in a clockwise direction. (Fig. 4)

### Eccentric dial pin

Eccentric dial pin system is adopted. When turning the slot clockwise with a screw driver, a slanted portion of the pin presses the dial feet and secures the dial. (Fig. 5)

When disassembling the dial, it is unnecessary to remove the eccentric dial pin from the plate.

### Setting lever axle

As shown in the diagram, this is connected to the plate by spring action; therefore, it is unnecessary to remove it from the plate when disassembling and reassembling. When removing the winding stem, push the axle from the front side, holding a screw driver at a right angle to the main plate (Fig. 6)

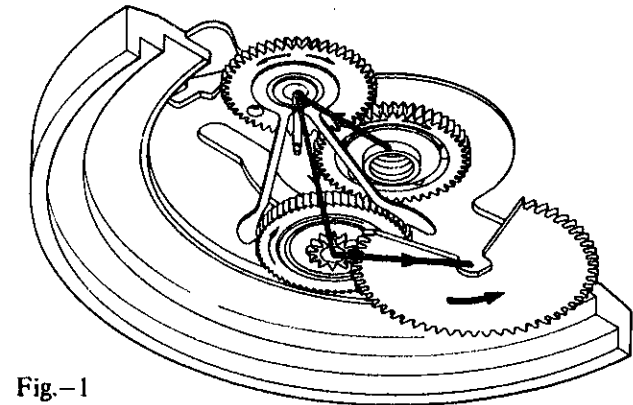


Fig.-1

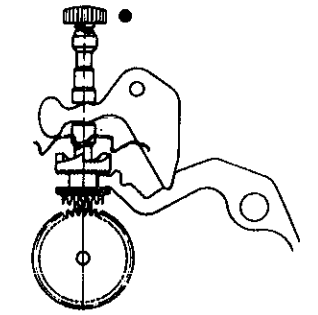


Fig.-2

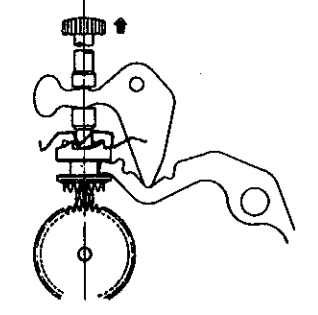


Fig.-3

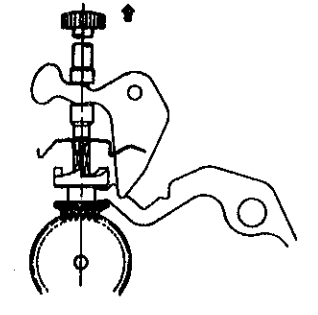


Fig.-4

### Assembly Disassembly



Fig.-5

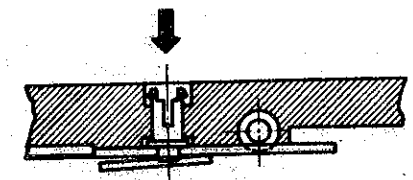


Fig.-6