

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.

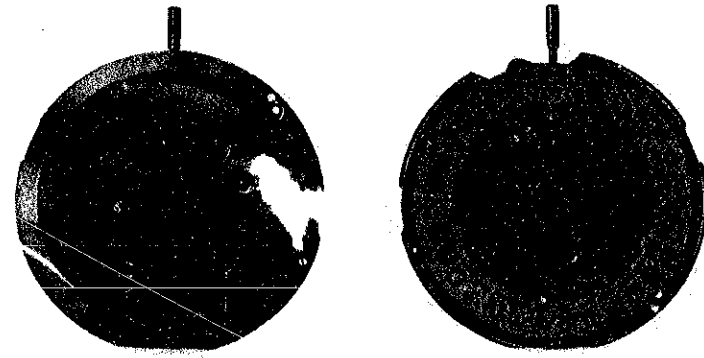
- ▶ Moebius Synt-A-Lube
- ▶ Seiko watch oil S-4.

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

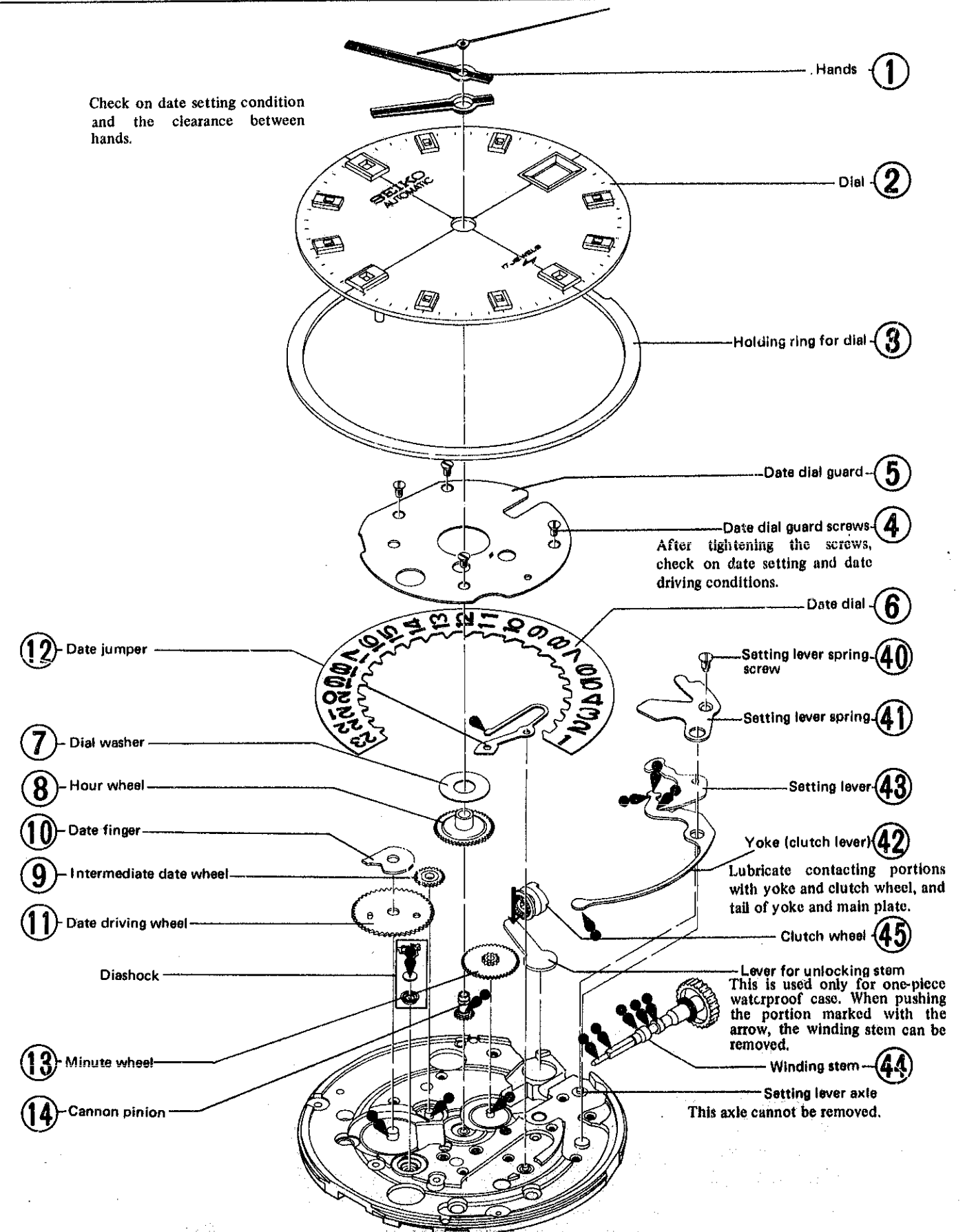
NOTE) Portions with no indications do not require lubrication.

Oil quantity

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

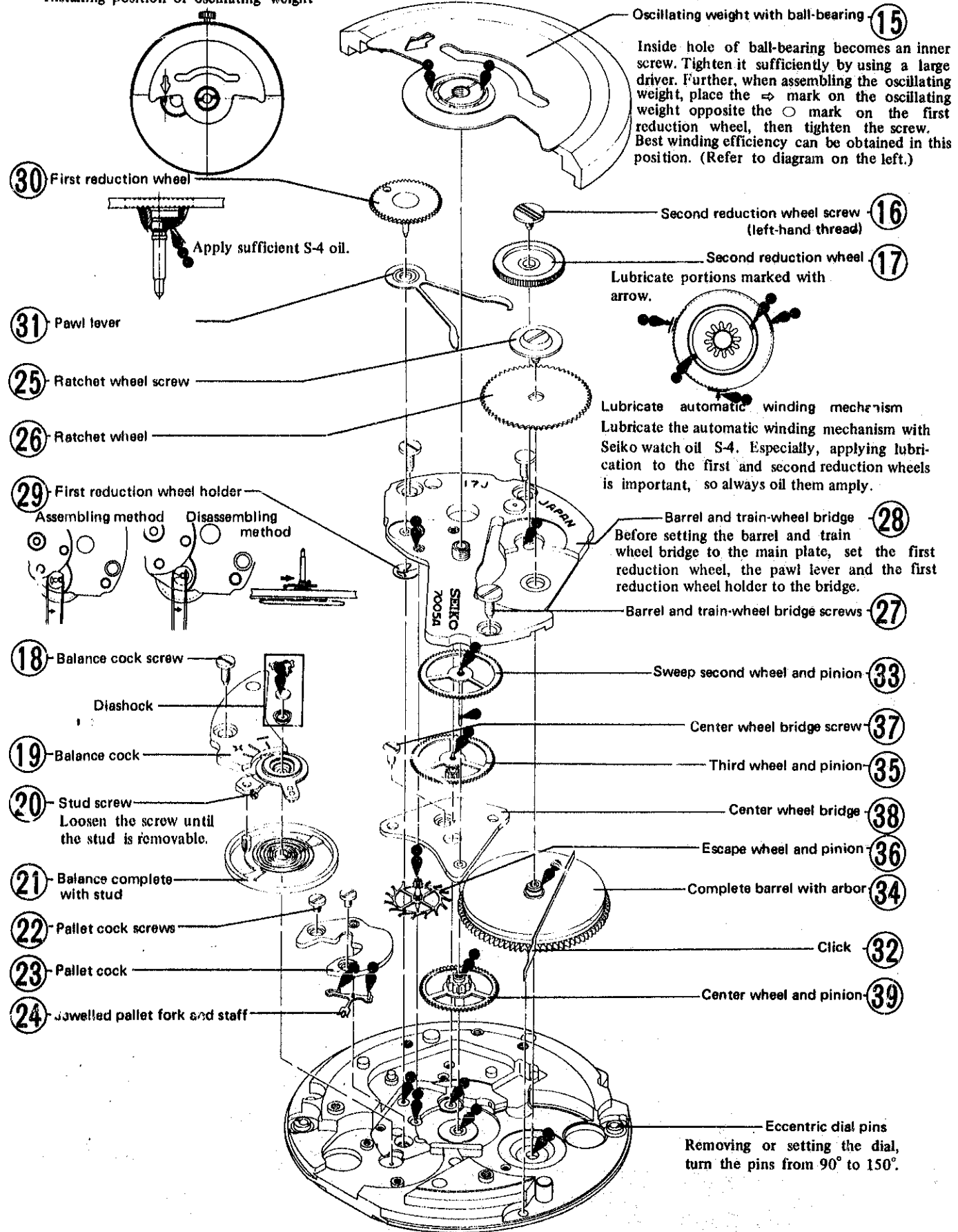


Enlarged movement



7005A Automatic winding, train wheel

Installing position of oscillating weight



7005A

6) Transmission of Force in Automatic Winding Mechanism

Oscillating weight \rightarrow First reduction wheel \rightarrow Pawl lever \rightarrow Second reduction wheel \rightarrow Ratchet wheel \rightarrow 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)

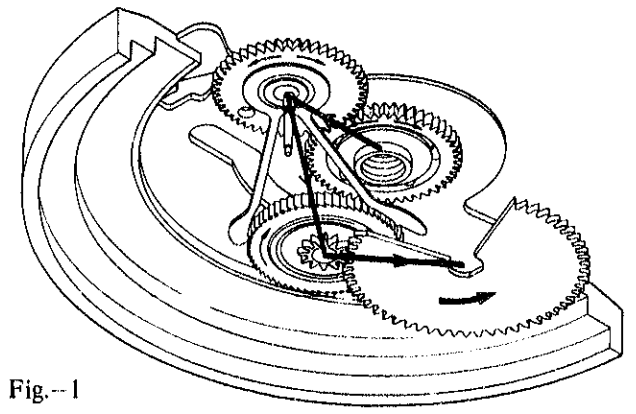


Fig.-1

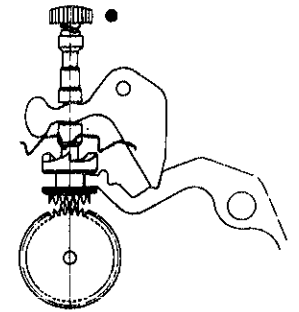


Fig.-2

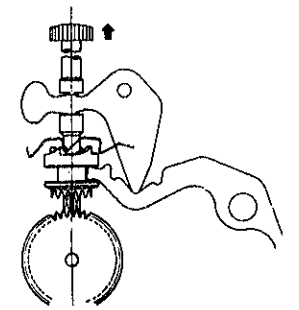


Fig.-3

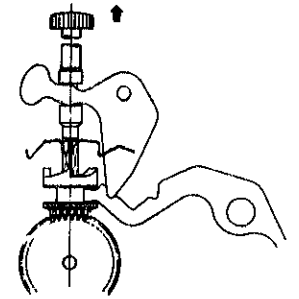


Fig.-4

Assembly Disassembly

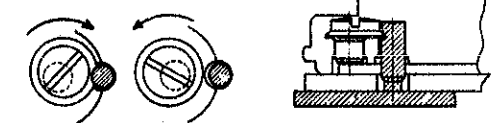


Fig.-5

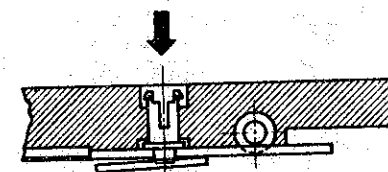


Fig.-6