

Oiling 4522A

1. Lubricating points and types of oil

Refer to { Front train wheelFig. 1
Calendar
Hand setting mechanism.....Fig. 2

Oil to be used for this caliber

● : Moebius Synt-A-Lube
● : Seiko watch oil S-4

Oil quantity

○ : Extremely small quantity
○○ : Normal quantity
○○○ : Sufficient quantity
⊗ : Oil must not be applied

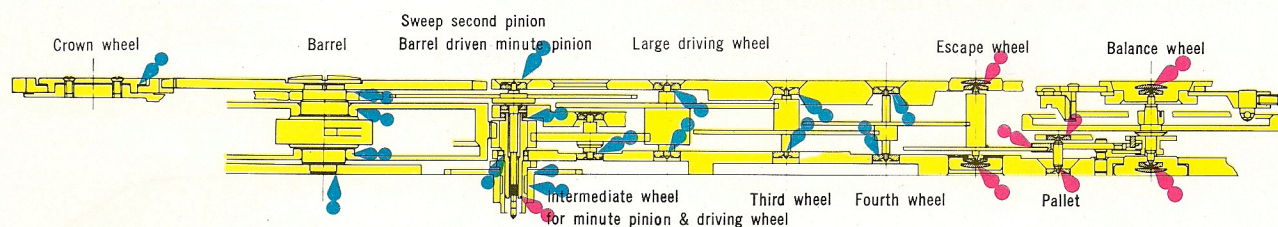


Fig. 1 Front Train Wheel

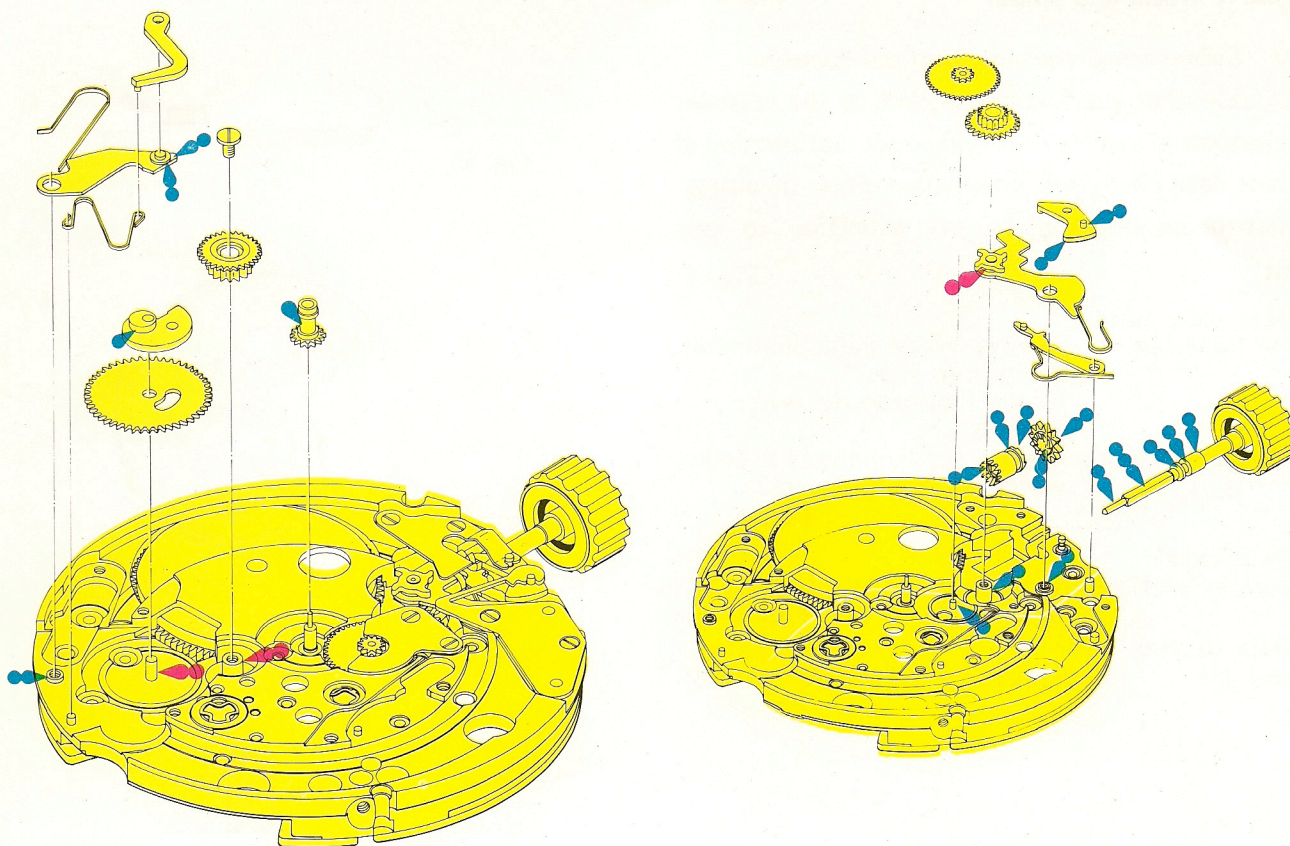


Fig. 2 Calendar, Hand Setting Mechanism

2. Points requiring special attention in lubricating

45 series caliber represents a high-beating (10 beats) watch.

Due to powerful mainspring torque, lateral pressure applied to each train wheel is considerably increased even though these mechanisms are improved. Lubricating portions and types of oil are almost identical to other watches, however, pay special attention to the following points.

2. 1 Lubricating each train wheel pivot with Seiko watch oil S-4

- Barrel-driven minute pinion with cannon pinion: Apply to upper and lower pivots before assembling. Fig. 3
- Intermediate wheel for minute pinion & driving wheel
Center wheel and pinion
Third wheel and pinion
Fourth wheel and pinion: Apply to flat side of hole jewel before assembling. Fig. 4

2. 2 Lubricating the calendar mechanism

In case that lubrication applied to the calendar mechanism is incorrect, it will cause malfunction of instant date changing, insufficient date changing, or two dates skipping, so pay attention to this point.

- Date cam jumper
(A) Side face : Always apply Seiko watch oil S-4 to the side. Never lubricate its lower surface.
- (B) Date finger: Apply a small quantity of Seiko watch oil S-4 to its side. Fig. 6
- Date cam eccentric portion: Apply a small quantity of S-4 to the side. Fig. 7
- Date driving wheel pin : Apply S-4 to the side evenly. Fig. 8

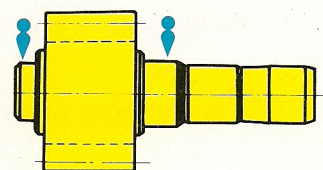


Fig. 3

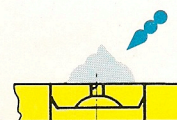


Fig. 4

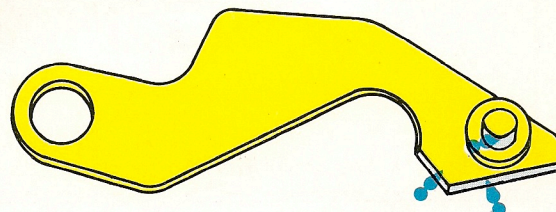


Fig. 5



Fig. 6

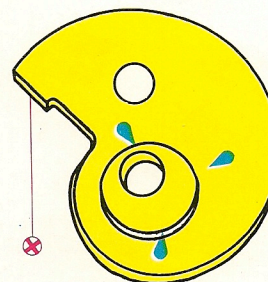


Fig. 7

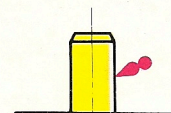


Fig. 8