

5619A SEIKO DUAL-ZONE TIMER

1) Specifications

Casing diameter	25.60 mm
Height	4.25 mm
Vibrations per hour	21,600
Automatic winding (with auxiliary handwinding device)	
Calendar (date) with instant date setting mechanism.	
Second-setting device	
Sub-Hour Hand (with Sub-hour hand setting device)	

2) Features

In addition to the ordinary hour, minute, and second hands of conventional watches, the SEIKO Dual-Zone Timer has a special "Sub-Hour Hand" interlocked with the hour hand. With this Sub-Hour Hand, easily adjustable by manipulating the crown, both the local time and the wearer's own country's standard time can simultaneously be known when traveling abroad. All it requires is previously setting the hand to the particular local standard time. Another unique feature is that the Sub-Hour Hand can be set independently of the ordinary timekeeping operation of the watch. Thus, you can change the Sub-Hour Hand as often as you wish, and still maintain uninterrupted accurate time.

3) Disassembly and Assembly

Calendar and Sub-Hour Hand mechanisms

Disassemble in the order given by Fig. Nos. ① through ⑰.

Assemble in the reversed order.



For disassembling and assembling of other mechanisms, the procedures are the same as in 5606A (see 5606A, Disassembly and Assembly).







4) Lubrication

Colored symbols given with the figures indicate types of oil, lubrication quantity and points.

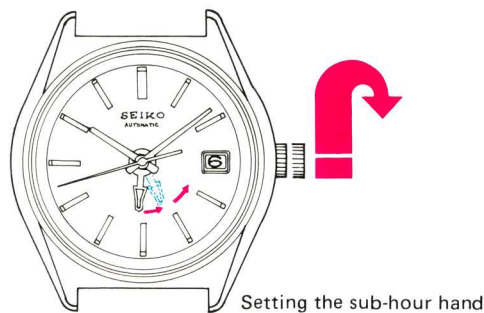
Types of oil

-  Moebius Synt-A-Lube
-  SEIKO watch oil S-6

Oil quantity

-  Extremely small quantity
-  Normal quantity
-  Sufficient quantity
-  Oil must not be applied.

Handling Instructions



To set the Sub-Hour Hand

Sub-Hour Hand adjustment is made at the first click position of the crown by turning it clockwise. Since the Sub-Hour Hand moves at one-hour intervals, rotate it by the time difference between the two places you want to refer to.



To set the Calendar

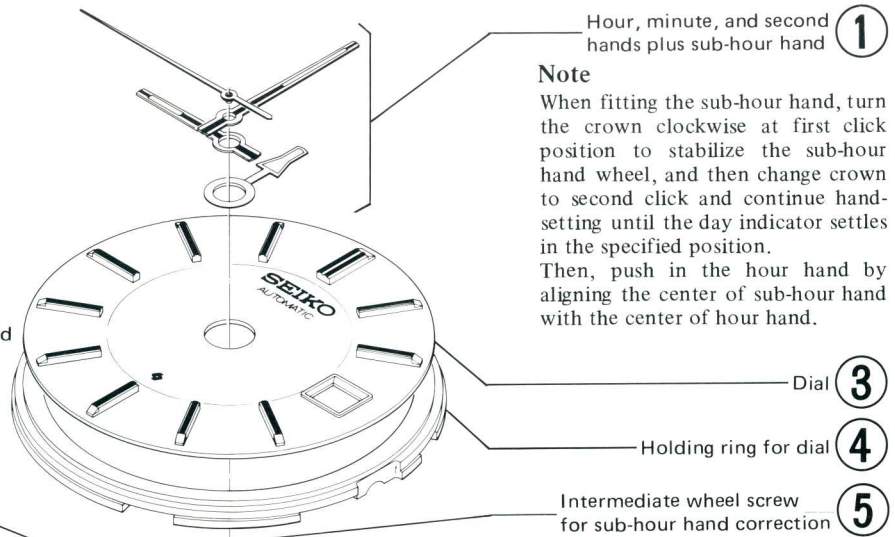
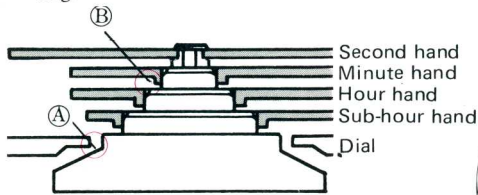
Pull the crown out to the first click and turn it counterclockwise.

Note: You cannot make calendar changes manually between 9:00 p.m. and 1:00 a.m.

5619A Calendar and Sub-Hour Hand Mechanisms

Caution when Assembling

- After mounting the dial, check clearance between dial and hour wheel. (Section A)
- After fitting the hands, check clearance between the minute hand tube and hour wheel. (Section B)
- Check movement of the date indicator, as well as the clearance between hands.
- Check the condition of second-setting.



Note

When fitting the sub-hour hand, turn the crown clockwise at first click position to stabilize the sub-hour hand wheel, and then change crown to second click and continue hand-setting until the day indicator settles in the specified position. Then, push in the hour hand by aligning the center of sub-hour hand with the center of hour hand.

Note

Check the condition of the date dial and the hour wheel movements by turning the crown to right and left at first click position.

6 Intermediate wheel for sub-hour hand correction

9 Date dial guard screw

10 Date dial guard

11 Date dial

13 Date driving wheel screw

14 Date driving wheel holder

15 Date driving wheel

12 Intermediate date wheel

16 Hour wheel (with sub-hour hand wheel)

Hour wheel guard screw (7)

Hour wheel guard (8)

The arrow-marked portion of the cannon pinion of 5619A is not to be pressed. Since the torque for hand-setting is adjusted to the large driving wheel and pinions, do not press this portion.

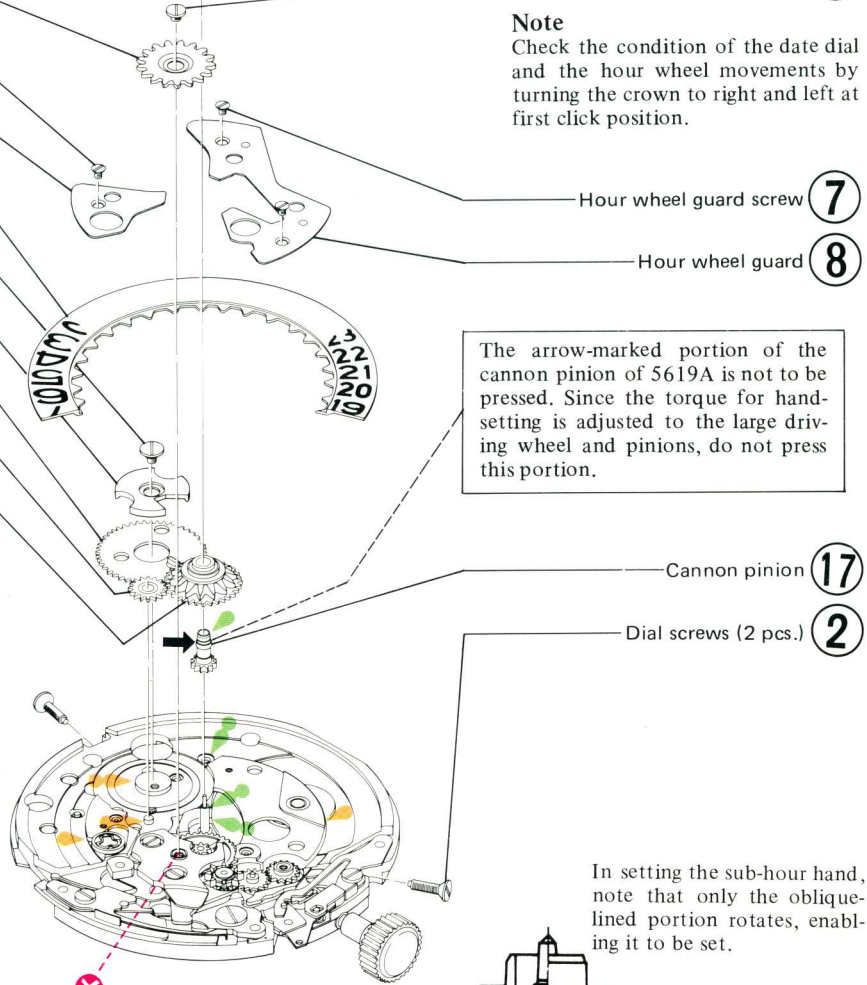
Cannon pinion (17)

Dial screws (2 pcs.) (2)

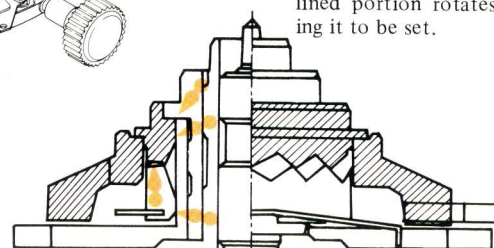
Note

The hour wheel cannot be disassembled. Clear the hour wheel only when the sub-hour hand cannot be corrected or smoothly adjusted. Normally when assembling or disassembling, cleaning the hour wheel is unnecessary.

After cleaning the hour wheel, dip it completely in a solution of benzene and Moebius Synt-A-Lube (approx. 50 to 1), and let it dry at room temperature before assembling.



In setting the sub-hour hand, note that only the oblique-lined portion rotates, enabling it to be set.



Lubrication points of hour wheel