

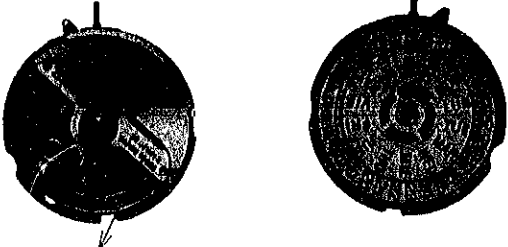


# EMMYWATCH

VINTAGE RESTORATIONS

## Seiko 5606A Movement Parts (1)

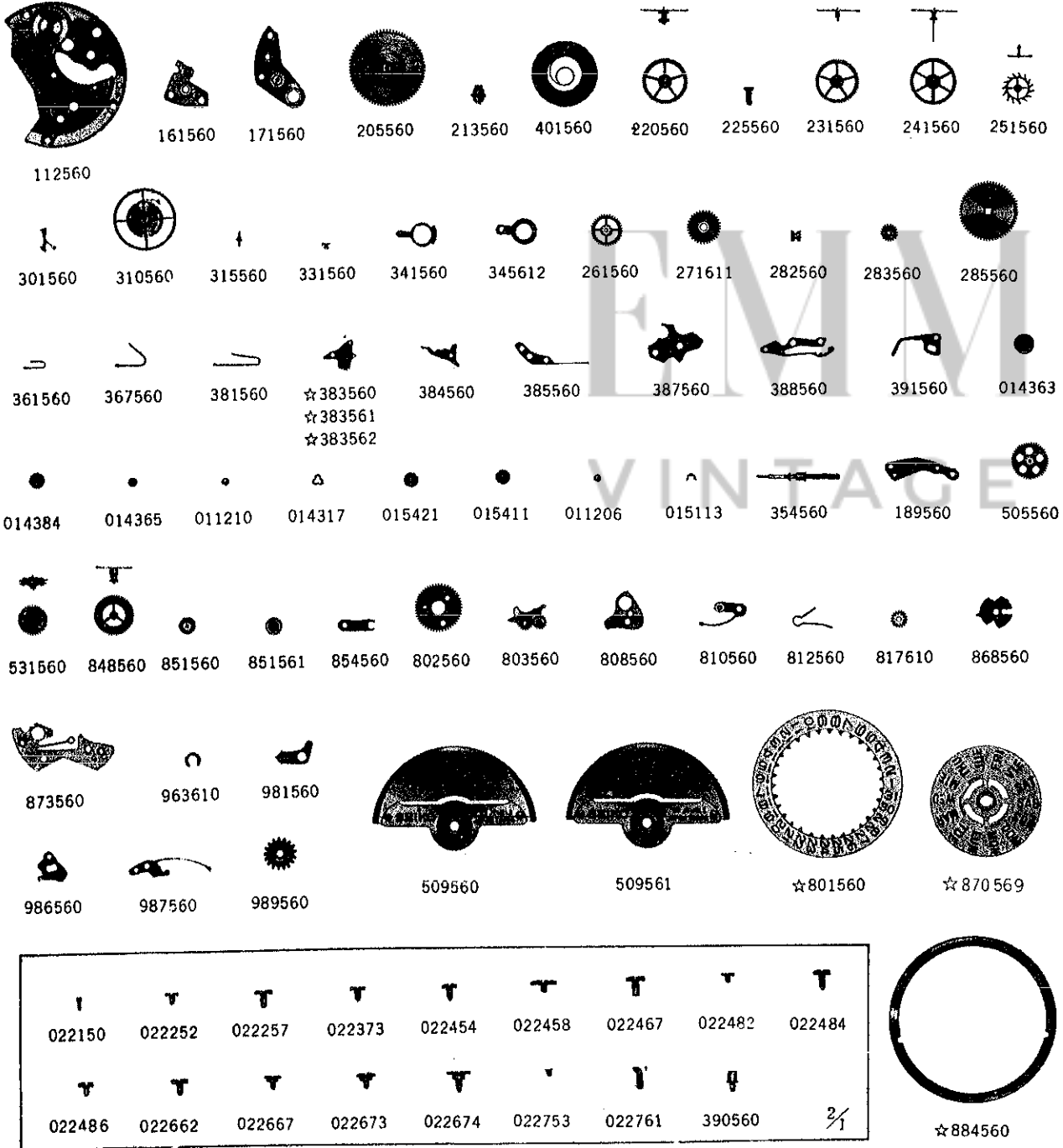
*Compiled by EmmyWatch - <https://www.emmywatch.com>*



Cal. 5606A

### Characteristics

Casing diameter: 25.60 φmm  
 Maximum height: 4.25 mm  
 Vibrations per hour: 21,600  
 Automatic and auxiliary hand winding with sweep second  
 Calendar (day & date)  
 Instant setting device for day & date calendar  
 Bilingual change-over system for day of week  
 Second-setting device  
 Micro-adjustor  
 "Diashock" Shock Resistant Device  
 "Diafix" Oil Lubrication Device



Catalog No.

Calibre No.	Jewels	Style Name
<b>5606A</b>	<b>23j 25j</b>	
PART NO.	LIST OF MATERIALS	PART NO. LIST OF MATERIALS
112560	Barrel & train-wheel bridge	810560 Date jumper
161560	Pallet cock	812560 Setting wheel lever spring
171560	Balance cock	817610 Intermediate date wheel
189560	Transmission wheel bridge	868560 Day finger
205560	Complete barrel with arbor	☆870569 Day star with dial disk
213560	Barrel arbor	873560 Day jumper
220560	Large driving wheel & pinions	☆884560 Holding ring for dial
225560	Cannon pinion	963610 Snap for day star with dial disk
231560	Third wheel & pinion	981560 Day-date corrector wheel rocker
241560	Sweep second wheel & pinion	986560 Day-date corrector wheel rocking lever
251560	Escape wheel & pinion	987560 Day-date corrector wheel rocking lever spring
261560	Minute wheel	989560 Intermediate wheel for day correction
271611	Hour wheel	022150 Stud screw
282560	Clutch wheel	022252 Transmission wheel bridge screw
283560	Winding pinion	022257 Screw for day-date corrector wheel rocking lever spring
285560	Ratchet wheel	022373 Pallet cock screw
301560	Jewelled pallet fork & staff	022454 Screw for reverser idler bolt
310560	Balance complete with stud	022458 Screw for oscillating weight
315560	Balance staff	022467 Ratchet wheel screw
331560	Roller with jewel	022482 Screw for intermediate wheel of day correction
341560	Regulator	022484 Bridge screw
345612	Stud holder	022486 Minute wheel bridge screw
354560	Winding stem	022662 Setting lever spring screw
361560	Second-setting lever spring	022667 Second-setting lever screw
367560	Minute wheel spring	022673 Screw for day & date driving wheel
381560	Click	022674 Screw for day-date corrector wheel rocking lever
☆383560	Setting lever	022753 Date dial guard screw
☆383561		022753 Day jumper screw
☆383562		022761 Dial screw
384560	Yoke (Clutch lever)	011147 Upper hole jewel for large driving wheel & pinions
385560	Yoke spring (Clutch lever spring)	011147 Lower hole jewel for large driving wheel & pinions
387560	Minute wheel bridge	011323 Lower hole jewel for 3rd wheel
388560	Setting lever spring	011423 Lower hole jewel for escape wheel
390560	Setting lever axle	011503 Upper hole jewel for pallet
391560	Second-setting lever	011503 Lower hole jewel for pallet
401560	Mainspring with slipping attachment	011147 Lower hole jewel for 1st reverser idler
014363	Diashock upper frame	011151 Upper hole jewel for differential wheel
014384	Diashock lower frame	011133 Lower hole jewel for differential wheel
014365	Diashock hole jewel with frame	011159 Upper hole jewel for transmission wheel
011210	Diashock cap jewel	011159 Lower hole jewel for transmission wheel
014317	Diashock spring	023179 Tube for minute wheel bridge screw
015421	Diafix upper hole jewel with frame for 3rd wheel	023180 Tube for bridge screw (Cylinder type)
015411	Diafix upper hole jewel with frame for escape wheel	023184 Tube for bridge screw (Recessed type)
011206	Diafix cap jewel	
015113	Diafix spring	
509560	Oscillating weight with ball-bearing (for 23j)	
509561	Oscillating weight with ball-bearing (for 25j)	
505560	Transmission wheel	
531560	Differential wheel	
848560	First reverser idler	
851560	Second reverser idler (for 23j)	
851561	Second reverser idler with jewel (for 25j)	
854560	Reverser idler bolt	
☆801560	Date dial	
802560	Date driving wheel	
803560	Setting wheel lever complete	
808560	Date dial guard	

☆ ⇨ Please see remarks on the next page.

☆ ⇨ Please see remarks on the next page.  
 Items in light letters are not shown in photos.

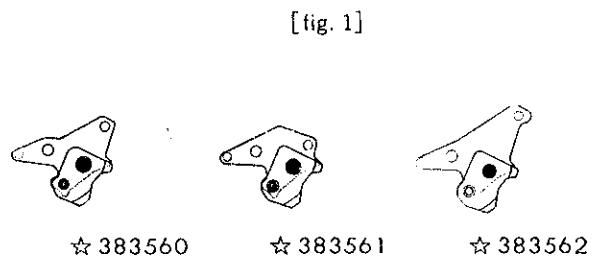
Calibre No.	<b>5606A</b>	Jewels	<b>23 j 25 j</b>	Style Name	
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**Remarks :**

**Setting lever**

There are three types of setting levers, used according to the dial diameter. Select the suitable setting lever by referring to the shapes indicated in the photos and fig. 1.

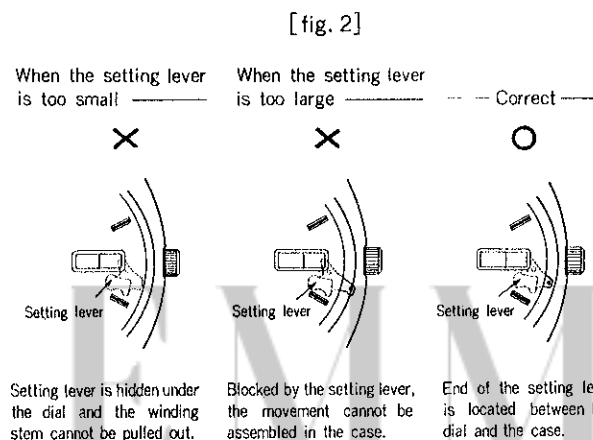
When a setting lever unsuitable for the dial diameter is used, the winding stem cannot be pulled out or the movement cannot be assembled in the case. Pay attention to this point (refer to fig. 2).



When the dial is round, the number of the setting lever differs (listed below) according to the dial diameter.

- (Dial diameter) 25.5~26.5 φmm ..... ☆383561
- ( " ) 27.5~28.5 φmm ..... ☆383560
- ( " ) 29.5~30.5 φmm ..... ☆383562

If the number of the setting lever is unknown or when placing an order for a setting lever other those mentioned above, specify ① Cal. No. and ② the dial No.



**Date dial**

☆801560 ..... 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.

**Day star with dial disk**

☆870569 (English ↔ Spanish) ..... Used when both the crown and the day frame are located at **3** o'clock

There are day star with dial disks which can be changed over between English and Portuguese, English and Chinese, and so on -- other than the aforementioned 870569 (English ↔ Spanish).

When ordering any of the above-mentioned day star with dial disks (870569), clearly mention the number printed on the disk. If the number is unknown, please specify ① Cal. No. ② the crown position ③ the day frame position ④ the dial No. and ⑤ the national language.

**Holding ring for dial** ----- Measure the total thickness and the outside diameter -----

☆884560 ..... 0.53 mm total thickness and 27.0 φmm outside diameter.

If the holding ring for dial is required in any other type, specify ① Cal. No. and ② the dial No.

EMMY WATCH  
VINTAGE RESTORATIONS

# 5606A

## 5606A Calendar mechanism

### 1) Specifications

Casing diameter	25.60 mm
Height	4.25 mm
Vibrations per hour	21,600
Automatic winding (with auxiliary hand winding device)	
Calendar (day & date, bilingual change-over mechanism for day indication, instant day & date setting device)	
Second-setting device	

### 2) Features

Sufficiently maintaining energy of the balance wheel assures excellent accuracy. 5606A maintains high-grade characteristics in all phases.

### 3) Disassembly and Assembly

Disassemble the watch according to the procedures shown in figures(1)to(71). Assemble the watch according to the procedures shown in figures(71)to(1).

### 4) Lubrication

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

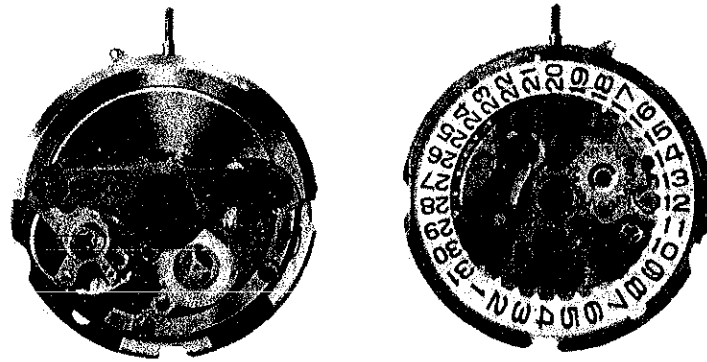
- Moebius Synt-A-Lube
- Seiko watch oil S-4

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

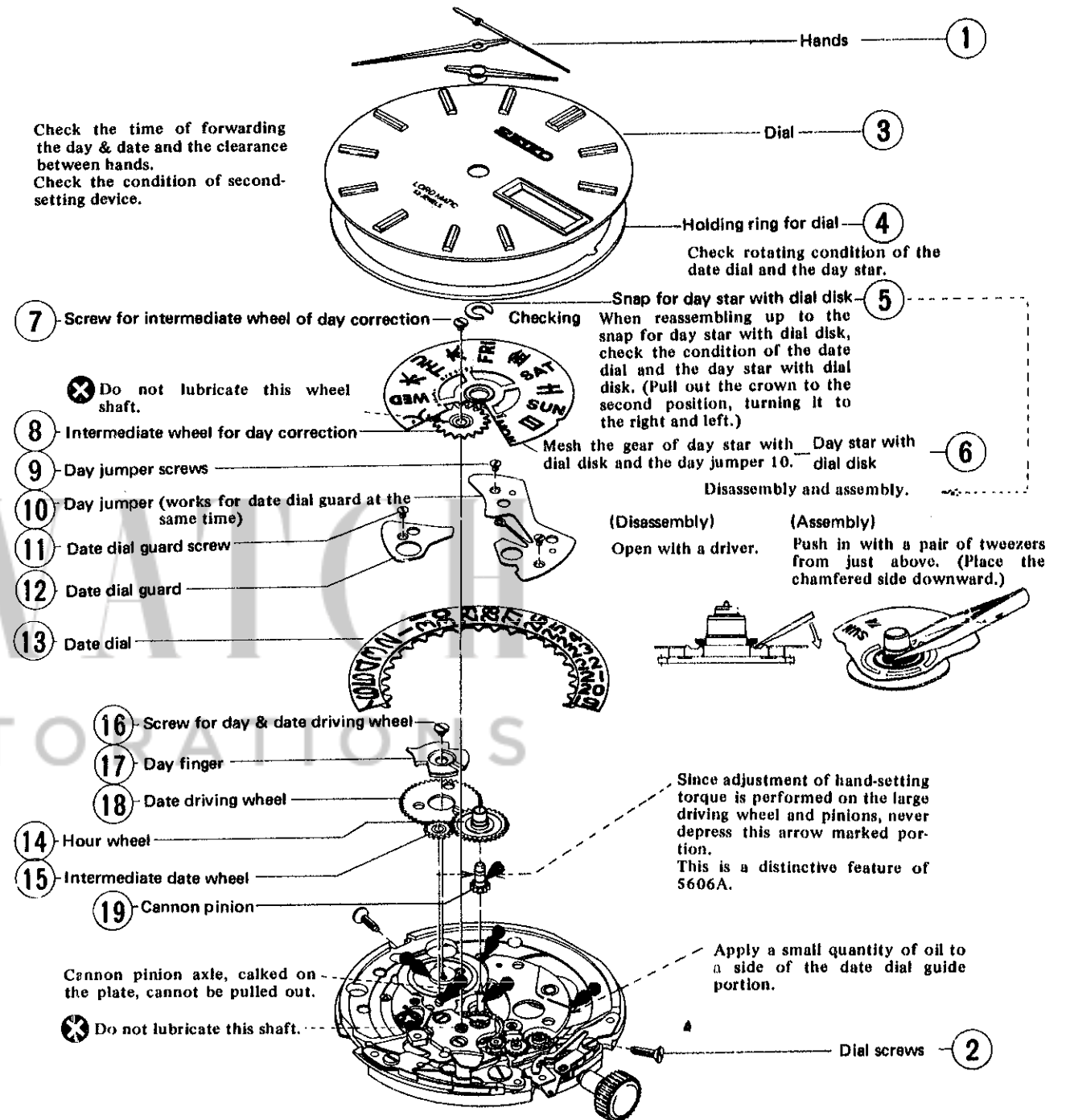
NOTE) Portions with no indications do not require lubrication.

#### Oil quantity

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



Enlarged movement

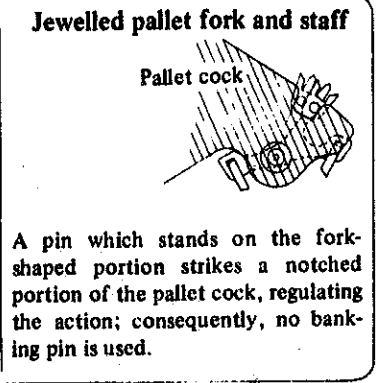
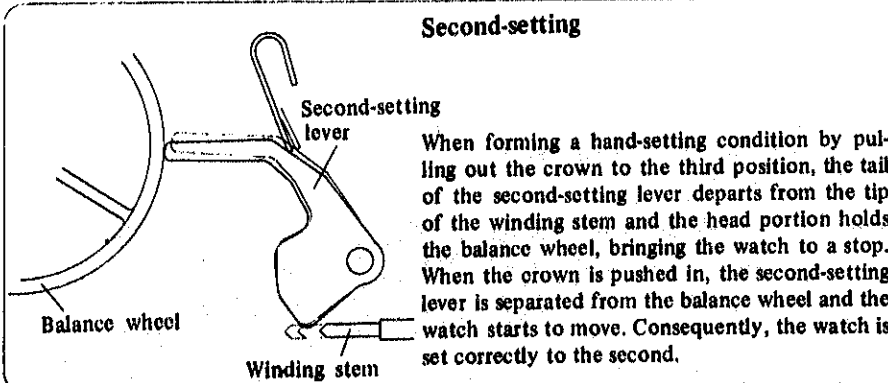
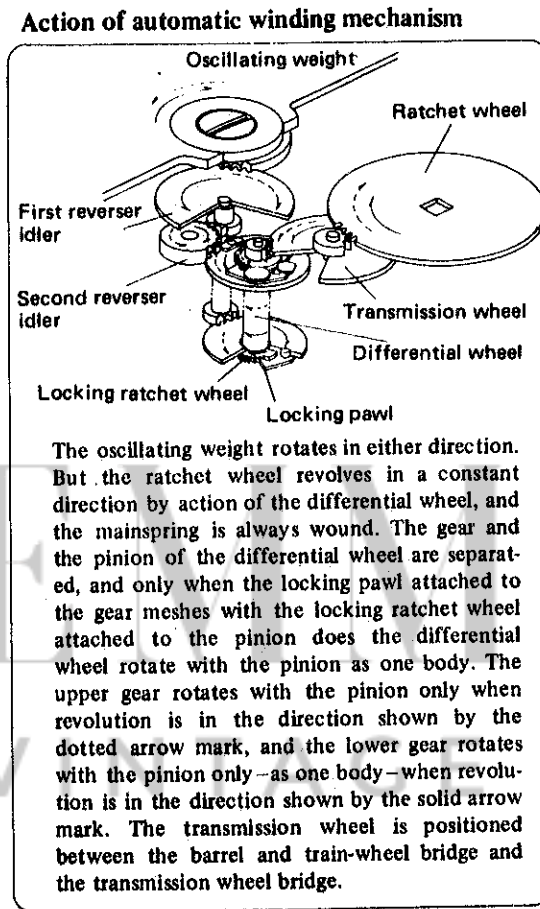
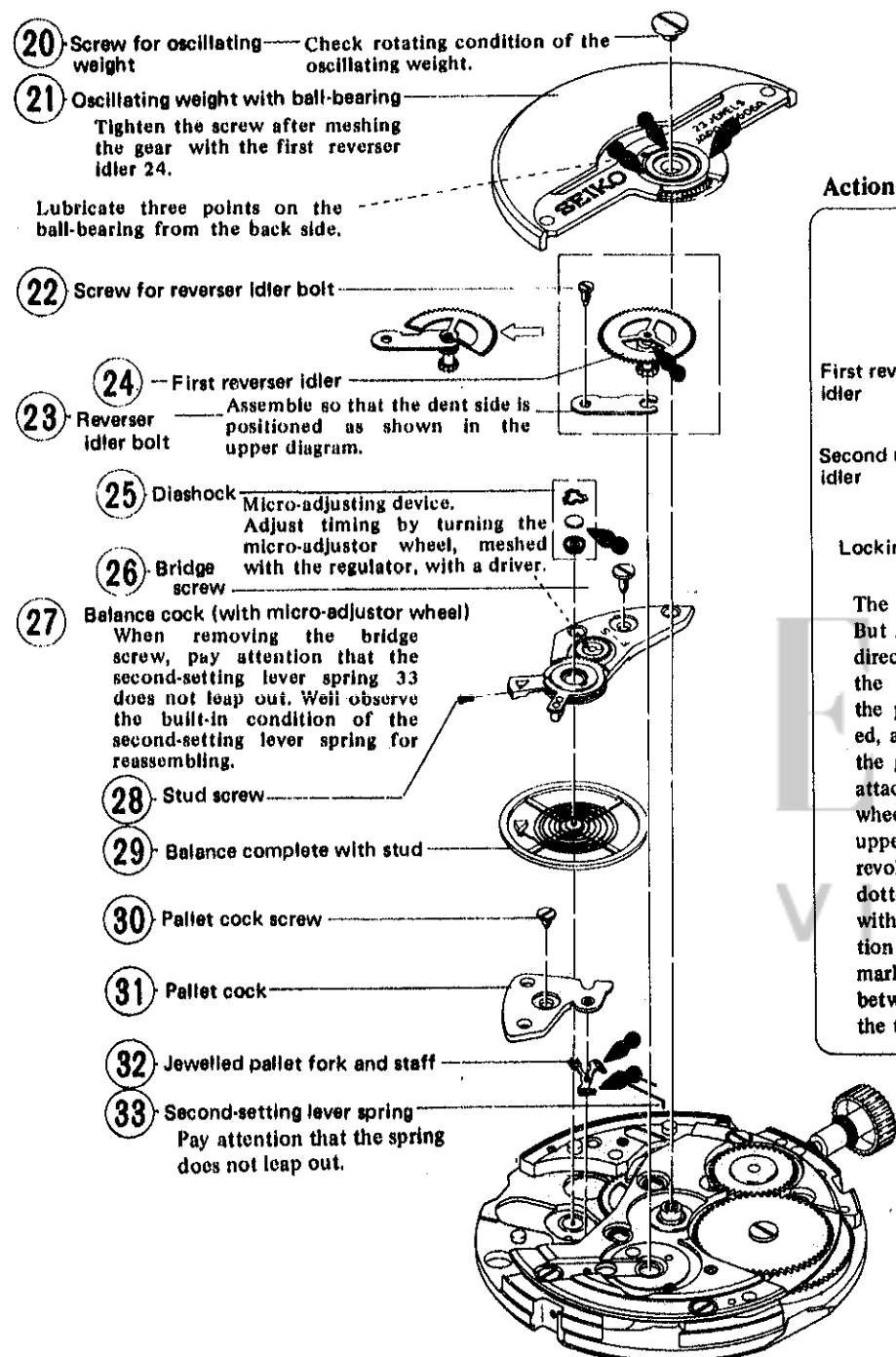


#### Selecting the language of the day of week:

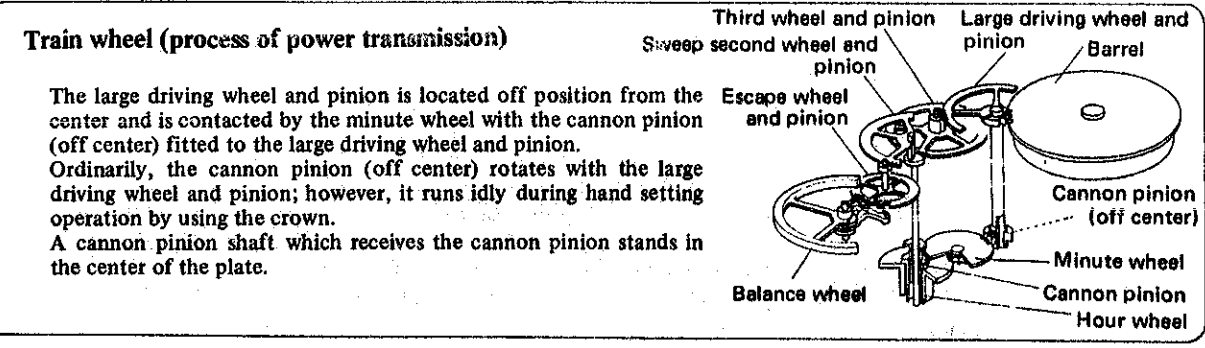
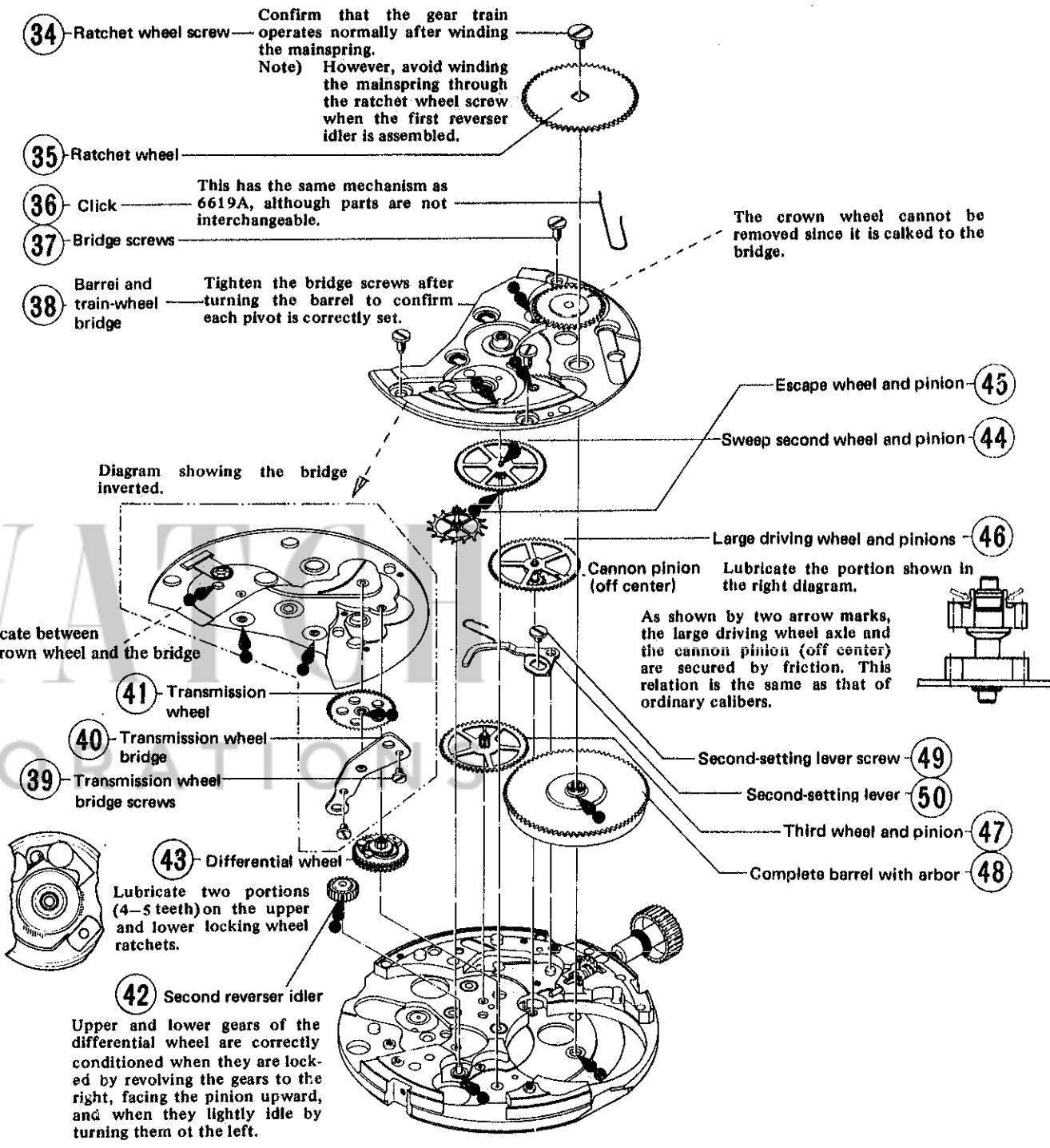
When setting the day of week, two languages appear alternately in the calendar window. Therefore set one of your choice through Seiko's novel bilingual change-over system, and later on the designated one will appear in the calendar window automatically. (However, when shifting to the next day, the other language appears temporarily.)

- NOTE) 1. When the hands are positioned in the range between 8 P.M.--1 A.M., avoid the date and day correction to protect the gears from damage.
2. Bilingual day of week is provided for all models except those having the day calendar window at 6 o'clock position.

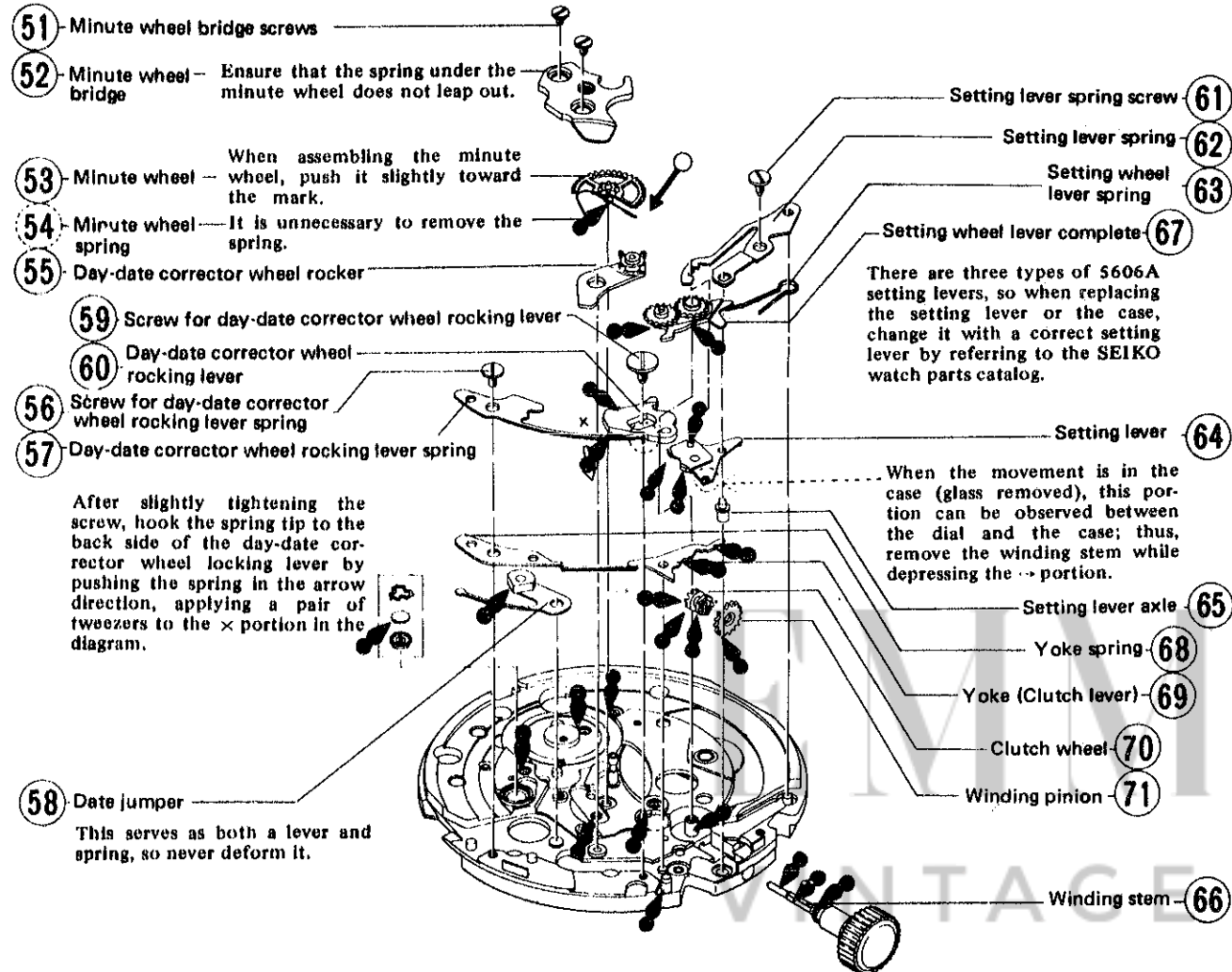
# 5606A Automatic winding mechanism



# 5606A Train wheel

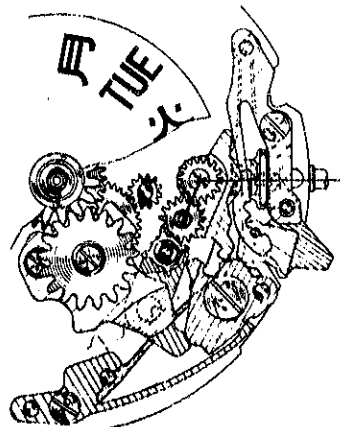


## 5606A Setting mechanism



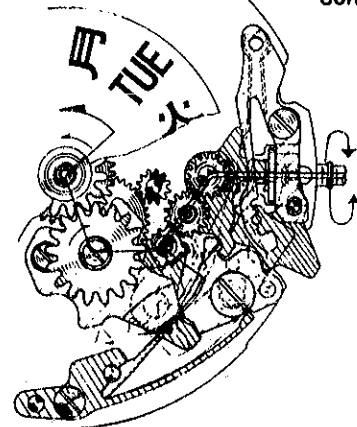
### Ordinary position of crown (Mainspring winding)

The winding pinion and the clutch wheel are meshed and the mainspring is wound when the crown is turned in this position.



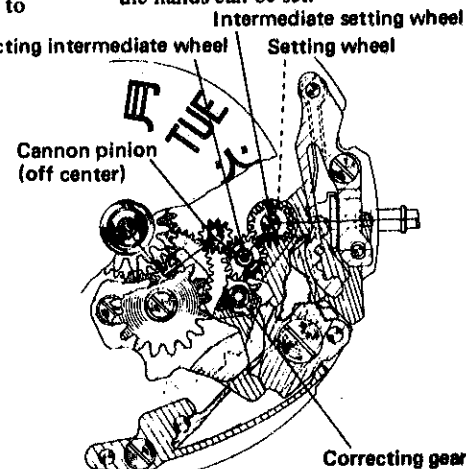
### Second position of crown (Setting the day and date)

The clutch wheel and the setting wheel (located under the intermediate setting wheel and rotated with the intermediate setting wheel) are meshed. When the crown is turned to the right in this position, the day star with dial disk is shifted. And when turned to the left, the date dial is shifted. (The date correcting gear meshes with the date dial or the intermediate wheel for day correction according to the direction the crown is turned).



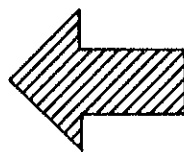
### Third position of crown (Setting time)

When the setting wheel lever complete is pushed by the setting lever, the correcting intermediate wheel and the cannon pinion are meshed. When the crown is turned in this position, the hands can be set.



## 5606A CHECKING ON WATCH STOPPING, AND REPAIRING AND ADJUSTING

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Regarding repairing and adjusting of Cal. 5606A, we already mentioned them in the SEIKO TECHNICAL GUIDE. However, on these pages, items to be checked on watch stopping, and repairing and adjusting for each item, are compactly arranged to facilitate further comprehension.

### 1. Items to be confirmed before beginning repair work

\* Checking the number of remaining windings of the mainspring.

### 2. When only the second hand is in motion, and the hour and minute hands stop, during calendar shifting.

### 3. When the watch (balance) stops completely.

EMMY WATCH  
VINTAGE RESTORATIONS

# 5606A CHECKING ON WATCH STOPPING, AND REPAIRING AND ADJUSTING

(Example of stopped calendar shifting)



## 1 Confirm the Following Items Before Beginning Repair Work.

- Check \*the number of remaining windings of the mainspring of the watch, in which calendar shifting stops in a condition as shown in the above diagram.
- In this case, when the number of remaining windings of the mainspring is.....  
Under 1 winding..... Adopt Procedure 2  
More than 1 winding ..... Adopt Procedure 3

Confirm the following points for the actually moving watch which is claimed to have stopped during the night.

- Wind the ratchet wheel 1.5 revolutions after complete release of the mainspring.
- Set the hands to 10:30 (p. m.), then leave the watch as it is.
- As shown in the above diagram, if the watch comes to a halt during calendar shifting, confirm the following items, then adopt Procedure 2 or 3.

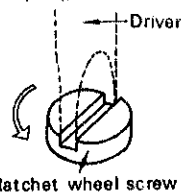
When the hour and minute hands stop and only the second hand is moving..... Adopt Procedure 2  
When the balance stops.... Adopt Procedure 3

### \* Checking the number of remaining windings of the mainspring

- Pull out the crown to the first or second click.
- Remove the automatic winding section (oscillating weight section).
- Firmly hold the ratchet wheel screw with a driver and release the click by using a pair of tweezers.
- In this condition, gradually turn the ratchet wheel screw counterclockwise until the mainspring force is exhausted (releasing the mainspring).
- This revolving number of the ratchet wheel screw corresponds with the number of remaining windings of the mainspring.

(Note)

It is convenient to count the number of remaining windings of the mainspring by confirming the direction of the groove of the ratchet wheel screw.



(When the number of remaining windings of the mainspring is under 1 winding.)

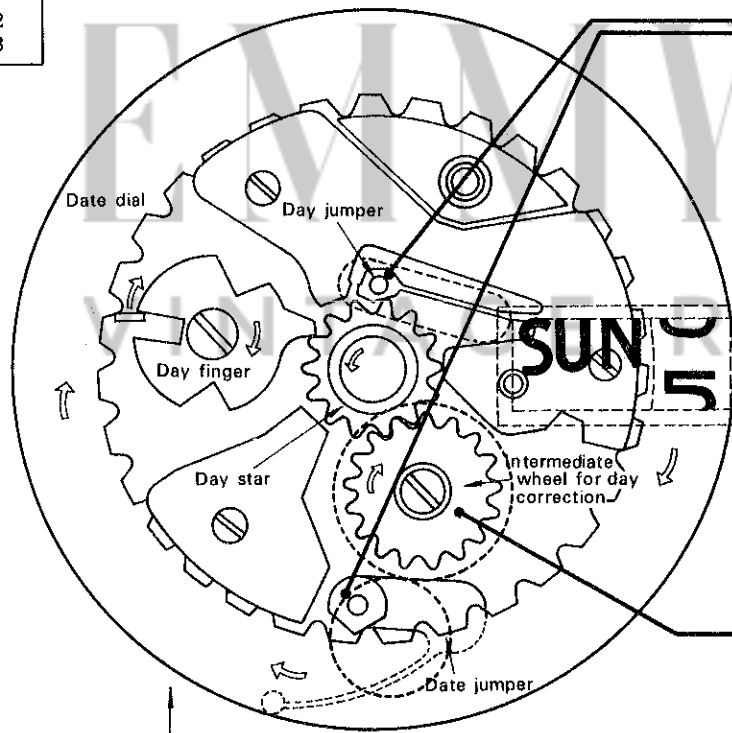
## 2 When only the Second Hand is in Motion and the Hour Hand and Minute Hand stop During Calendar Shifting.

In this case, inspect the watch according to CHECKING PROCEDURES 4, 5, and 8.

(When the number of remaining windings of the mainspring is more than 1 winding.)

## 3 When the Balance Completely stops

In this case, inspect the watch according to CHECKING PROCEDURES 5 - 8.



This diagram indicates a stopping condition of calendar shifting. (A diagram in which the dial and the day star with dial disk are removed).

Checking procedure	Checking details	Repairing and checking methods
4	(The cause was due to loosened caulking of the cannon pinion (off-center) attached to the large driving wheel and pinion). (Refer to the diagram on the right)	Replace the large driving wheel and pinions with a new one.  (Note) Never caulk the cannon pinion.  [* When setting the hands, the setting wheel lever meshes with the cannon pinion (off-center).]  Complete barrel with arbor
5	(The cause is due to too strong spring characteristic of the day jumper and date jumper, therefore correct them as shown in the diagram on the right.)	Hold this portion with a pair of tweezers, and slightly bend it in the arrow direction.  (Note) After correcting these jumpers, perform day and date correction gradually and gently, check whether or not they gear correctly with the day star with dial disk or the date dial.
6	Check whether or not oil is adhered to the back side of the day star with dial disk.	When oil is adhered (X)..... 1. Wipe off oil adhered to the back side of the day star with dial disk. (Or wash it quickly with benzine.) Never use trichloroethylene, Fuji-clean, S-clean, etc. 2. Wipe off oil adhered to the surface of the plate, date dial guard, etc.  (Note) Apply a small quantity of oil to the lower portion of the barrel arbor, and the lower pivot of the center wheel.
7	Check on revolving condition of the intermediate wheel for day correction.	When the intermediate wheel for day correction does not revolve smoothly (X).....  Wash the parts which are in the diagram on the right. (Use ultrasonic cleaner as far as possible.)  (Note) Never lubricate the intermediate wheel for day correction (axk).
8	Always check the escapement portion even when no malfunction is found in Procedures 4 through 7. 1. Are adjusting and lubricating conditions of the escapement portion proper? 2. Are shake, clearance and wobble in wheels, day star and etc. proper? 3. Is there any invasion of chips, dust, shag, and so on into the movement?	1. If there is any malfunction, repair and adjust the escapement. 2. Normalize conditions of the pallet jewels and their oil maintaining condition.

### General Checking Procedures After Repairing

Fully wind up the mainspring (the mainspring is fully wound by turning the ratchet wheel more than seven times from its entirely released condition). Set the hands to 3 o'clock (p. m.) and leave the watch as it is. The watch is in excellent condition if it does not stop at the second calendar shifting (33 hours after starting).