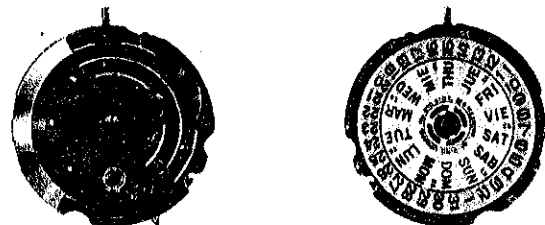




## Seiko 6309A Movement Parts (1)

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



Cal. 6309A

**Characteristics**

Casing diameter : 27.0 φ mm  
 Maximum height : 5.2 mm  
 Vibration per hour : 21,600  
 Automatic winding with sweep second  
 Calendar (day & date)  
 Instant setting device for day & date calendar  
 "Diashock" Shock Resistant Device

112 601

122 602

161 805

171 611

193 601

205 613

213 612

221 611

225 611

231 601

241 611

251 611

261 611

271 611

282 601

285 611

301 611

311 601

341 601

345 601

354 601

381 601

383 601

384 601

387 601

388 601

390 601

☆397 601

☆397 602

401 615

☆500 601

505 601

☆801 601

802 601

803 601

808 601

810 601

817 611

831 611

839 601

868 601

☆870 510

873 601

963 610

☆884 931

011 145

011 146

011 147

011 210

011 406

011 503

011 532

011 723

011 724

014 317

014 363

014 364

014 365

023 039

023 040

023 150

023 151

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022 257

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022 458

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022 467

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022 468

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022 491

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022 493

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022 760

T  
022 761

T  
022 160

Catalog No.

| Calibre No. | 6309A  | Jewels   | 17j  | Style Name |
|-------------|--|----------|--|------------|
| PART NO.    | PART NAME  | PART NO. | PART NAME  |            |
| 112 601     | Barrel & train wheel bridge                      | 014 365  | Diashock hole jewel with frame                         |            |
| 122 602     | Center wheel bridge                              | 022 257  | Center wheel bridge screw                              |            |
| 161 805     | Pallet cock                                      | 022 257  | Setting lever spring screw                             |            |
| 171 611     | Balance cock                                     | 022 458  | Screw for oscillating weight                           |            |
| 193 601     | Framework for automatic device with ball-bearing | 022 467  | Ratchet wheel screw                                    |            |
|             |  | 022 468  | Pallet cock screw                                      |            |
|             |  | 022 468  | Framework screw for automatic device with ball-bearing |            |
| 205 613     | Complete barrel with arbor                       | 022 468  | Date driving wheel screw                               |            |
| 213 612     | Barrel arbor                                     | 022 491  | Minute wheel bridge screw                              |            |
| 221 611     | Center wheel & pinion                            | 022 493  | Barrel & train wheel bridge screw                      |            |
| 225 611     | Cannon pinion                                    | 022 493  | Balance cock screw                                     |            |
| 231 601     | Third wheel & pinion                             | 022 760  | Date dial guard screw                                  |            |
| 241 611     | Fourth wheel & pinion                            | 022 760  | Day jumper screw                                       |            |
| 251 611     | Escape wheel & pinion                            | 022 761  | Dial screw   |            |
| 261 611     | Minute wheel                                     | 022 160  | Stud screw   |            |
| 271 611     | Hour wheel                                       | 023 039  | Tube for framework screw of automatic device           |            |
| 282 601     | Clutch wheel                                     | 023 040  | Tube for pallet cock screw (recessed type)             |            |
| 285 611     | Ratchet wheel                                    | 023 150  | Tube for pallet cock screw (cylinder type)             |            |
| 301 611     | Jewelled pallet fork & staff                     | 023 151  | Tube for barrel & train wheel bridge screw             |            |
| 311 601     | Balance complete                                 |          |  |            |
| 341 601     | Regulator  |          |  |            |
| 345 601     | Stud holder                                      |          |  |            |
| 354 601     | Winding stem                                     |          |  |            |
| 381 601     | Click  |          |  |            |
| 383 601     | Setting lever                                    |          |  |            |
| 384 601     | Yoke (Clutch lever)                              |          |  |            |
| 387 601     | Minute wheel bridge                              |          |  |            |
| 388 601     | Setting lever spring                             |          |  |            |
| 390 601     | Setting lever axle                               |          |  |            |
| ☆397 601    | Lever for unlocking stem A                       |          |  |            |
| ☆397 602    | Lever for unlocking stem B                       |          |  |            |
| 401 615     | Mainspring with slipping attachment              |          |  |            |
| ☆500 601    | Oscillating weight                               |          |  |            |
| 505 601     | Transmission wheel                               |          |  |            |
| ☆801 601    | Date dial  |          |  |            |
| 802 601     | Date driving wheel                               |          |  |            |
| 803 601     | Setting wheel lever complete                     |          |  |            |
| 808 601     | Date dial guard A                                |          |  |            |
| 810 601     | Date jumper                                      |          |  |            |
| 817 611     | Intermediate date wheel                          |          |  |            |
| 831 611     | Pawl lever with jewel                            |          |  |            |
| 839 601     | Holder for transmission wheel & pawl lever       |          |  |            |
| 868 601     | Day finger                                       |          |  |            |
| ☆870 510    | Day star with dial disk                          |          |  |            |
| 873 601     | Day jumper                                       |          |  |            |
| 963 610     | Snap for day star with dial disk                 |          |  |            |
| ☆884 931    | Holding ring for dial                            |          |  |            |
| 011 145     | Upper hole jewel for center wheel                |          |  |            |
| 011 146     | Lower hole jewel for center wheel                |          |  |            |
| 011 147     | Upper hole jewel for transmission wheel          |          |  |            |
| 011 210     | Diashock cap jewel                               |          |  |            |
| 011 406     | Upper hole jewel for escape wheel                |          |  |            |
| 011 406     | Lower hole jewel for escape wheel                |          |  |            |
| 011 503     | Upper hole jewel for pallet                      |          |  |            |
| 011 532     | Lower hole jewel for third wheel                 |          |  |            |
| 011 723     | Lower hole jewel for pallet                      |          |  |            |
| 011 724     | Lower hole jewel for transmission wheel          |          |  |            |
| 014 317     | Diashock spring                                  |          |  |            |
| 014 363     | Diashock upper frame                             |          |  |            |
| 014 364     | Diashock lower frame                             |          |  |            |

☆⇨ Please see remarks.

☆⇨ Please see remarks on the next page.

|                             |                      |            |
|-----------------------------|----------------------|------------|
| Calibre No.<br><b>6309A</b> | Jewels<br><b>17j</b> | Style Name |
|-----------------------------|----------------------|------------|

**Remarks :**

**Lever for unlocking stem**

- ☆397 601.....Used for the one-piece type case with the dial whose external diameter is **27mm** or longer.  
(When the dial is shaped other than round, the radius is to be measured in the direction of the lever for unlocking stem.)
- ☆397 602.....Used for the one-piece type case with the dial whose external diameter is less than **27mm**.  
(When the dial is shaped other than round, the radius is to be measured in the direction of the lever for unlocking stem.)

**Date dial**

- ☆801 601 (Black figures on white background).....Used when both the crown and the calendar frame are located at **3 o'clock** position.  
  
If any other type of date dial is required, specify ① Cal. No. ② the crown position ③ the calendar frame position and ④ the dial No.

**Day star with dial disk**

- ☆870 510(English↔Spanish).....Used when both the crown and the calendar frame are located at **3 o'clock** position.  
  
If any other type of day star with dial disk is required, specify the number printed on the disk.

**Holding ring for dial**

- ☆884 931.....The type of a holding ring for dial is determined based on the design of cases and dials.  
Check the case number and refer to "**SEIKO Casing Parts List**" to choose a corresponding holding ring for dial.

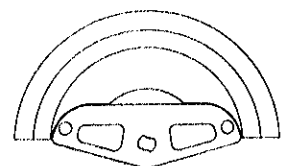
**Oscillating weight**

- ☆500 601.....This oscillating weight is interchangeable with the one for movements of calibre 61 series listed below, and the interchangeability is limited within the listed calibres.

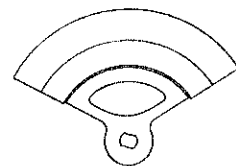
| Oscillating weight<br>Cal. No. | 500 620 | 500 622 | 500 601 |
|--------------------------------|---------|---------|---------|
| 6105 A & B                     |         |         |         |
| 6106 B & C                     |         |         |         |
| 6117 A & B                     | V       | V       | V       |
| 6118A                          |         |         |         |
| 6119 B & C                     |         |         |         |
| 6109A                          | V       | V       | V       |
| 63 Series                      | —       | —       | V       |

V : Interchangeable  
— : Not interchangeable

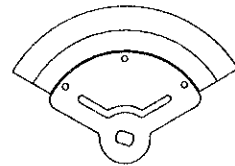
**Form of oscillating weight**



500 620



500 622



500 601

EMMY WATCH  
VINTAGE RESTORATIONS

### 1) Specifications

Casing diameter:  $\phi$  27.0 mm  
 Height: 5.2 mm  
 Vibrations per hour: 21,600  
 Automatic winding  
 Calendar mechanism: Day and date, bilingual change-over system for the day of the week, instant day and date setting device

### 2) Features

- **Highly reliable movement**  
 The highly stabilized accuracy and high reliability established for the 61 series has been incorporated into the movement.
- **Easy-to-use day/date setting device**  
 All that is required for day-date correction is to turn the crown. Turn clockwise (away from you) for date setting; turn counter clockwise (towards you) for day setting.
- **Easy after-servicing**  
 Disassembling and reassembling procedures and serviceability have been improved largely by:
  - employment of a new balance hair-spring holding device;
  - decrease in number of parts resulting from the simplification of the movement structure;
  - decrease in number of new parts resulting from interchangeability of some parts with Cal. 61 series.

### 3) Disassembling and reassembling

Disassembling procedures Figs.: ① ~ ⑤⑦  
 Reassembling procedures Figs.: ⑤⑦ ~ ①  
 The movement holder for 61 series is also used for disassembling and reassembling.

### 4) Lubrication

The following marks indicate the types of oil, and quantity to be applied and lubricating portions.

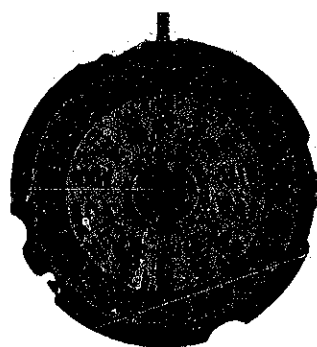
#### Type of oil

- ▶ Moebius A
- ▶ Moebius V
- ▶ SEIKO Watch Oil, S-2
- ▶ SEIKO Watch Oil, S-6

#### Oil quantity

- Liberal quantity
- Normal quantity
- Extremely small quantity

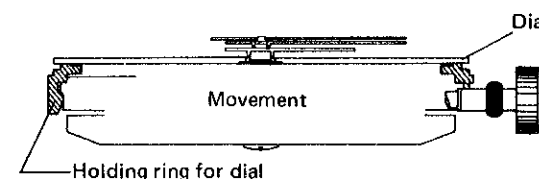
Note: Never lubricate the portions marked ⊗



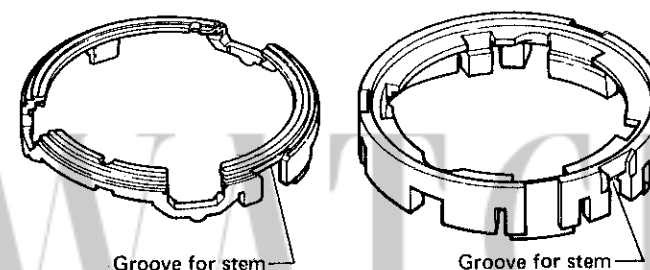
Movement

### Holding ring for dial

As this holding ring for the dial incorporates the two functions of both the currently used holding ring for dial and the case ring, it simplifies the casing of the watch.

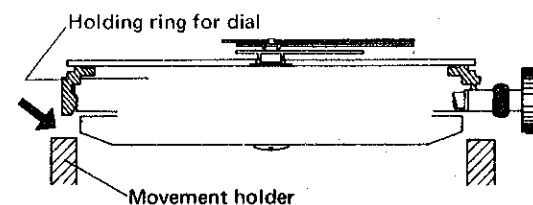


The holding ring for dial is generally classified into two types.



#### Note:

- The movement holder for 61 series cannot be used if the holding ring for dial is assembled with the movement, because the holding ring for dial touches when setting the movement into the movement holder as shown in the illustration. (The movement holder for 61 series can be used for the one-piece type case, square type case and case with dial ring.)



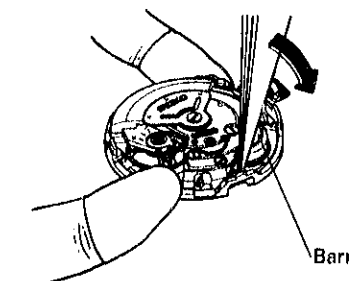
The holding ring for dial touches when setting the movement into the movement holder.

- Disassembling and reassembling of this holding ring for dial from the movement is a little different from that of the current holding ring for dial. Follow the procedures below.

### Disassembling

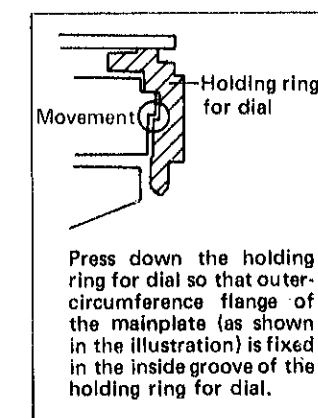
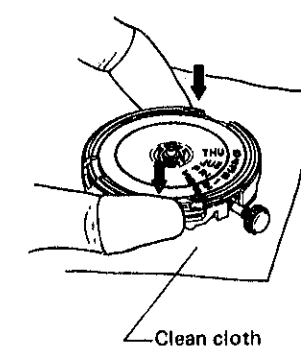
- When the movement is to be removed from the case, pull out the winding stem and turn the case upside down. The movement should fall out. It is not necessary to pull up on the holding ring for dial.

- After loosening the dial screws, the dial and the holding ring for dial can be removed together. Put the tip of tweezers into the groove of the main plate located near the barrel and pry toward the arrow marked direction as shown in the illustration. Then the dial and the holding ring for dial will be removed together.



### Reassembling

- Place the groove for the stem of the holding ring for dial upon the winding stem, and press down the holding ring for dial on the mainplate.
- Place the movement on a clean cloth when handling.

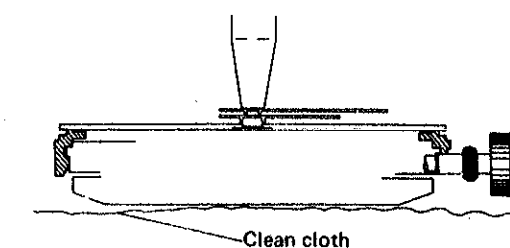


Press down the holding ring for dial so that outer-circumference flange of the mainplate (as shown in the illustration) is fixed in the inside groove of the holding ring for dial.

### Hour, minute and second hands

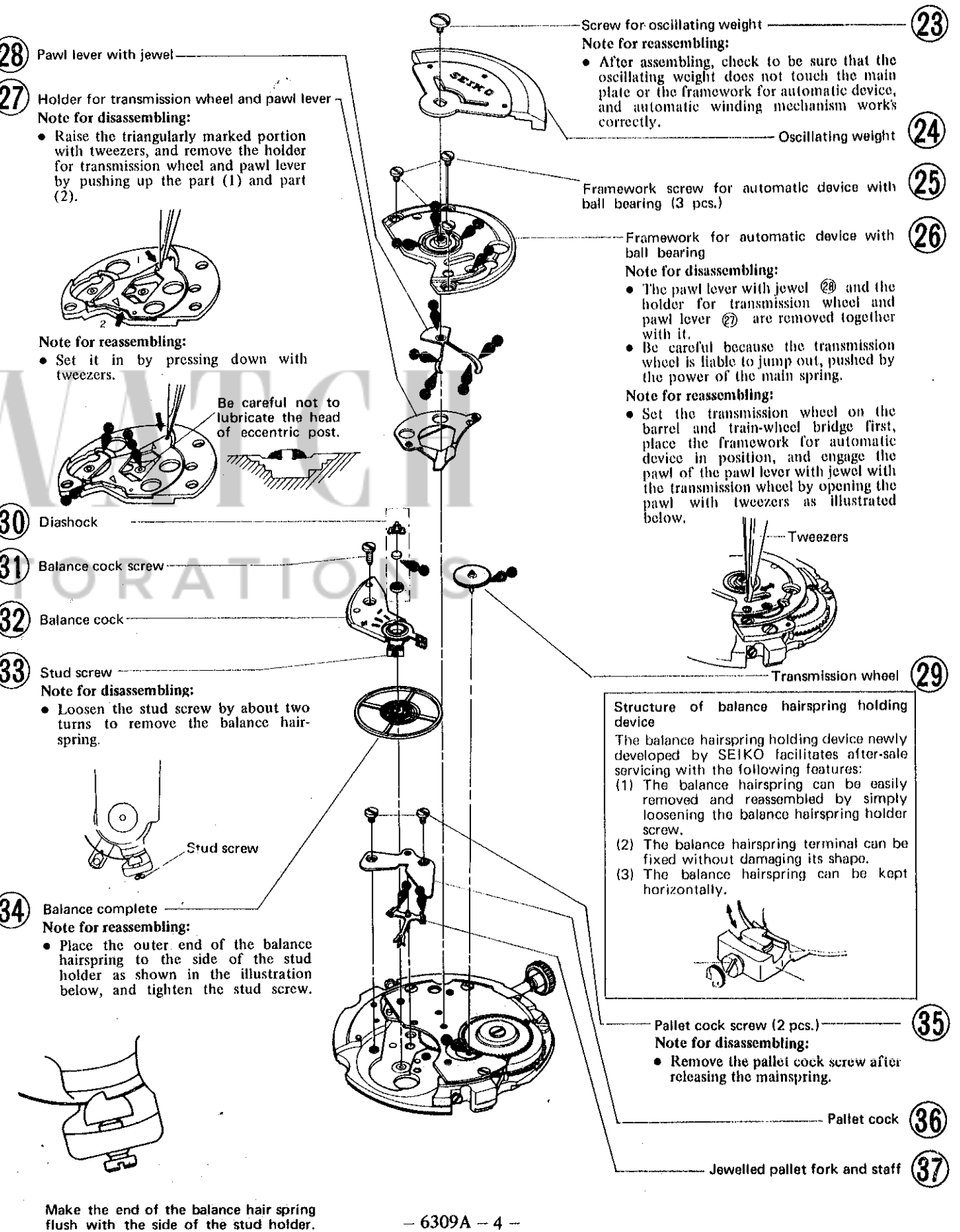
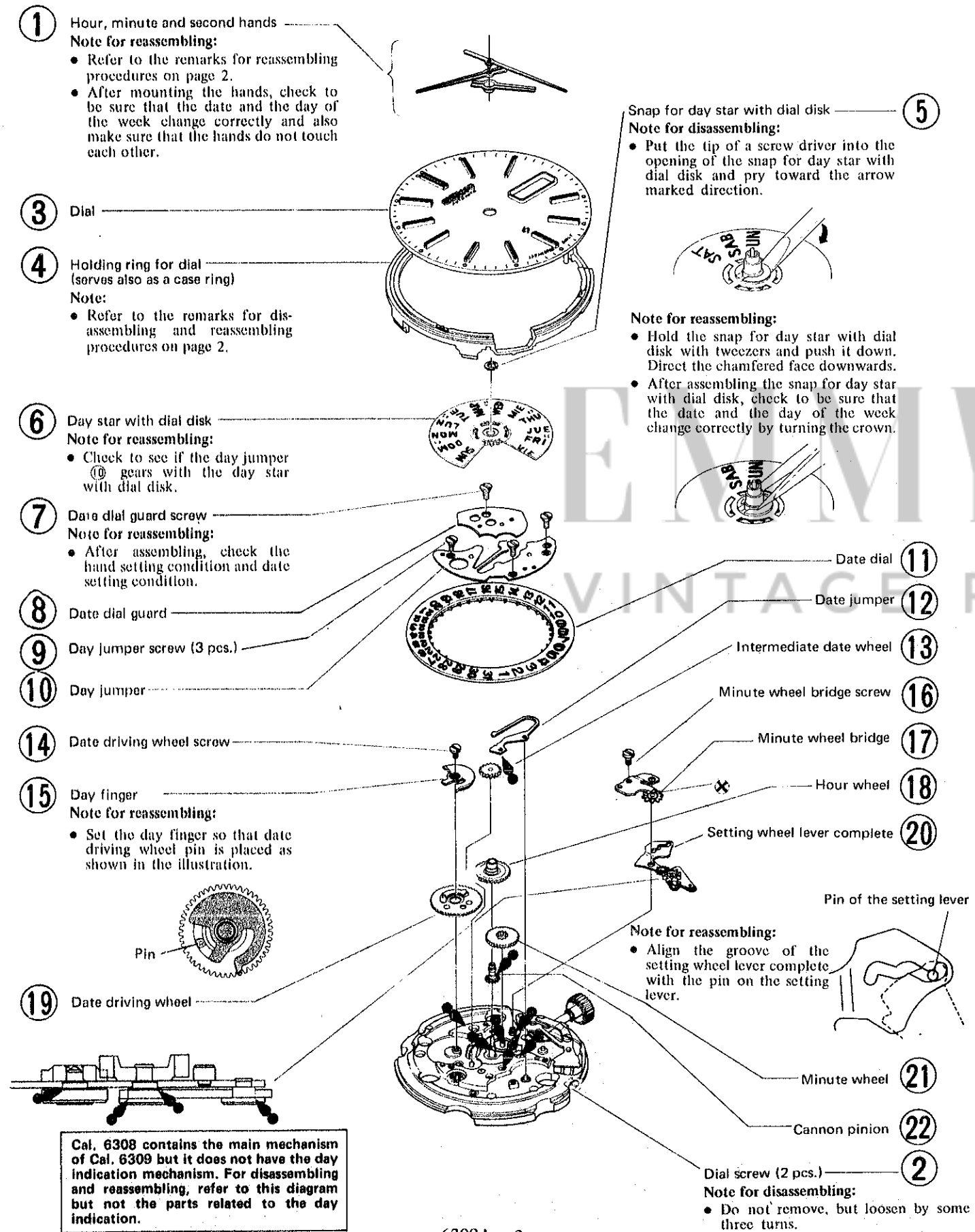
#### Note for reassembling:

- When mounting the hands, place the movement on a clean cloth.



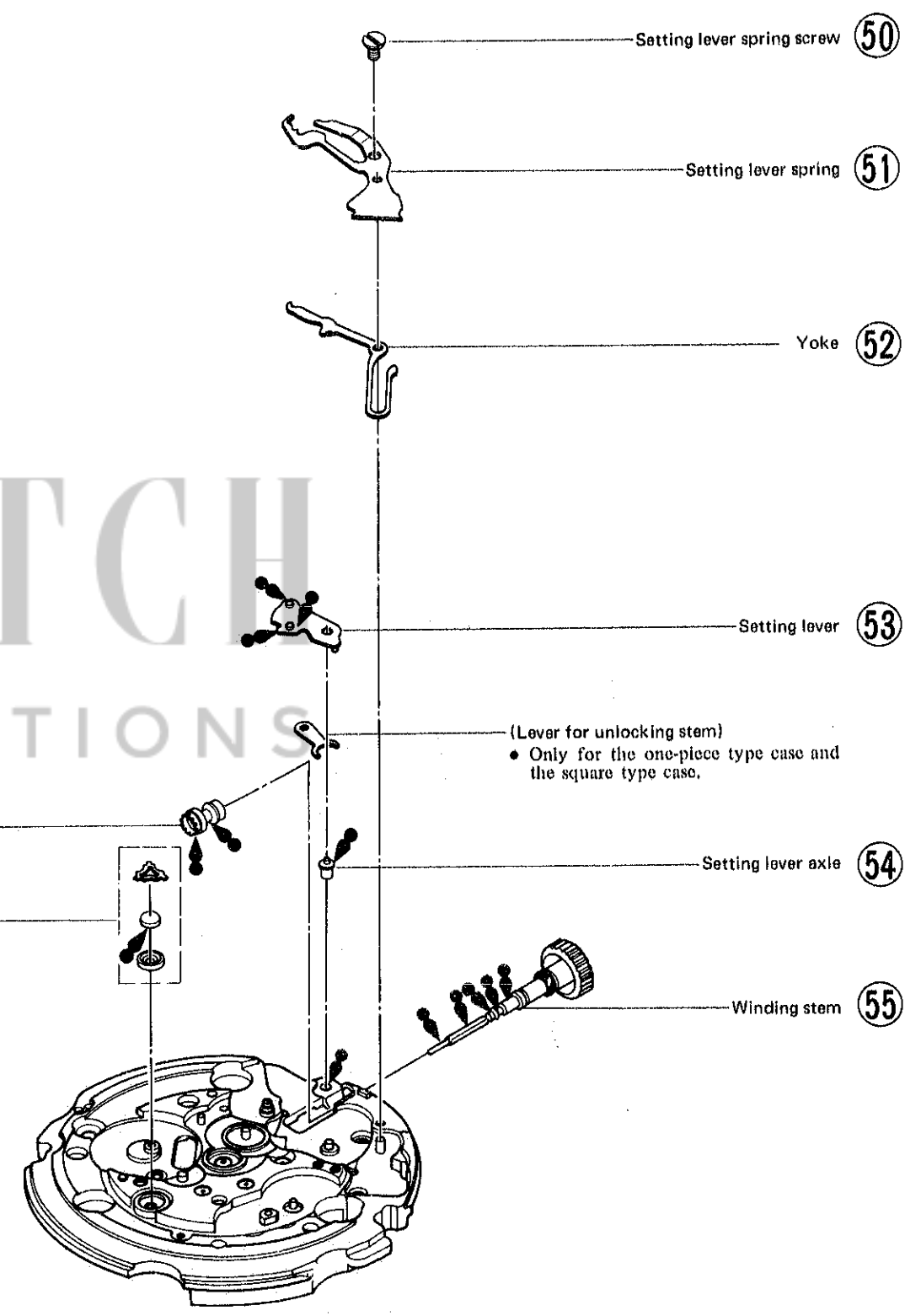
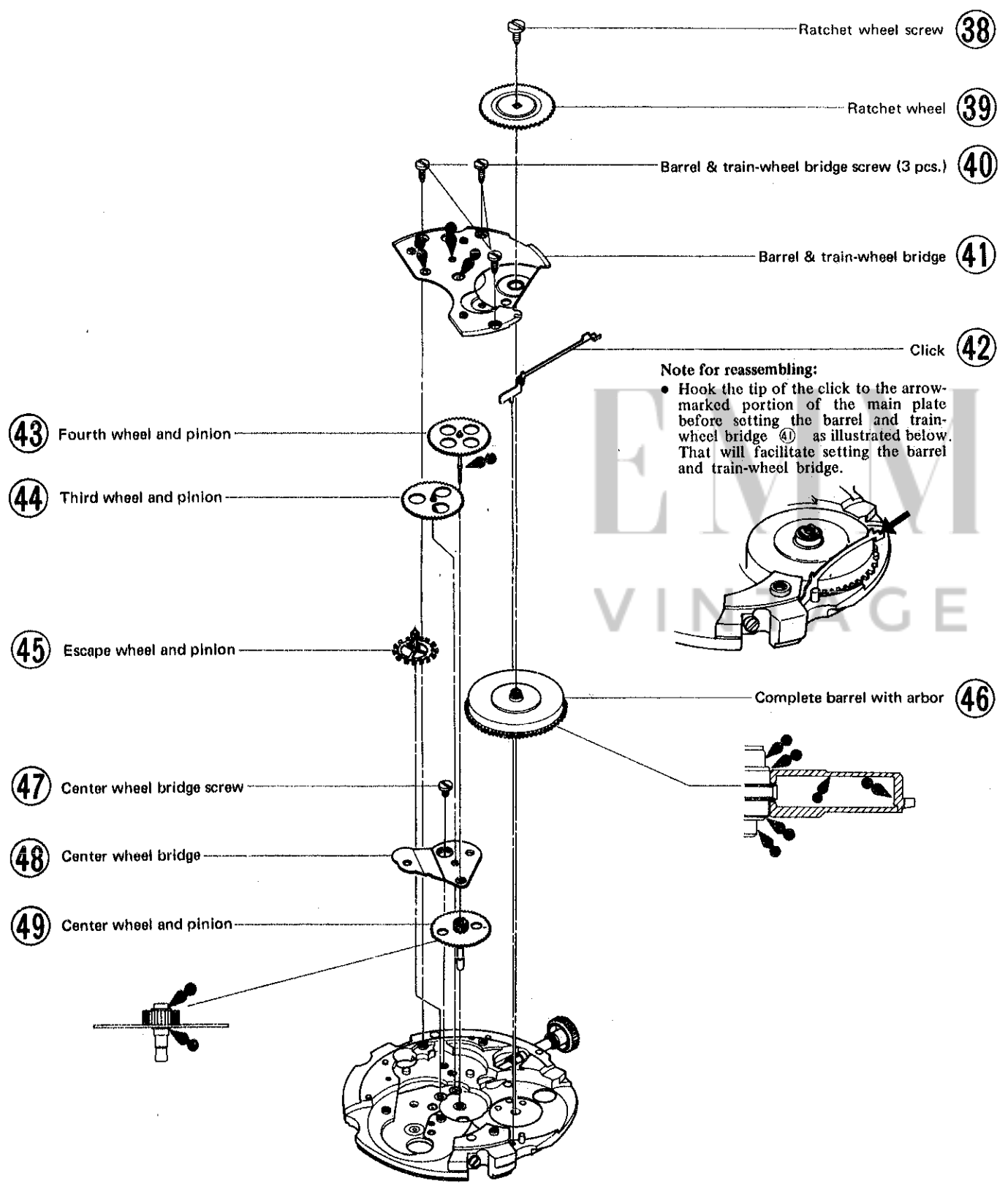
# 6309A Calendar mechanism

# 6309A Automatic winding mechanism, escapement and governor mechanism



6309A Gear train mechanism

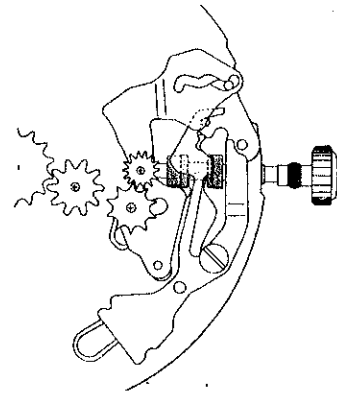
6309A Setting mechanism



## 6309A Setting mechanism

### Crown at the normal position (free)

The clutch wheel and the setting wheel do not gear with each other, and no power can be transmitted to the mainspring by turning the crown.

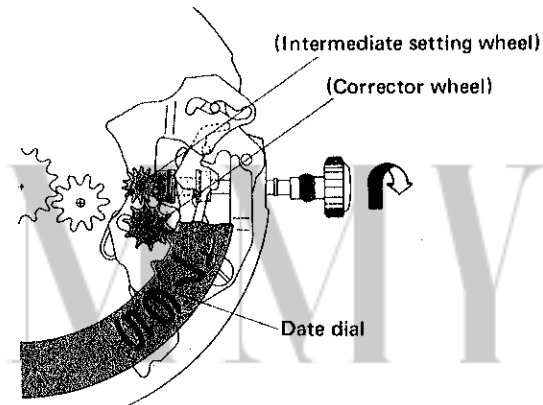


### Crown at the first click position (for day/date setting)

#### (1) Clockwise turning (date setting)

Turn the crown clockwise, and the corrector wheel will move toward the date dial and it will gear with the date dial to correct the date.

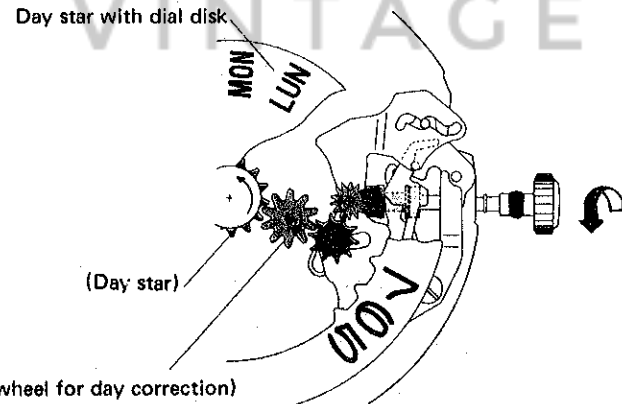
The turning force is transmitted from the Crown, Clutch Wheel, Setting Wheel, Intermediate Setting Wheel, Corrector Wheel and Date Dial.



#### (2) Counterclockwise turning (day setting)

Turn the crown counterclockwise, and the corrector wheel will move toward the day star with dial disk and it will gear with the intermediate wheel for day correction to the day.

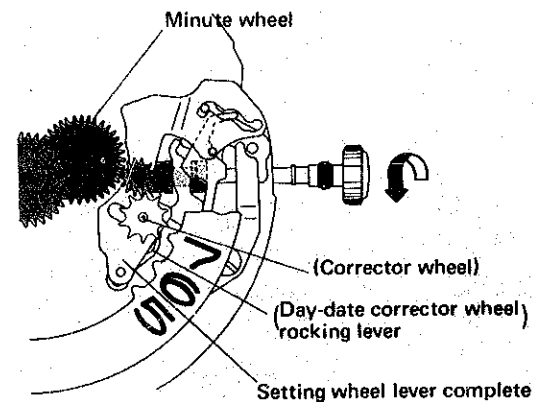
The turning force is transmitted from the Crown, Clutch Wheel, Setting Wheel, Intermediate Setting Wheel, Corrector Wheel, Intermediate Wheel for Day Correction and Day Star with Dial Disk.



### Crown at the second click position (for hand setting)

The setting wheel lever complete will move toward the minute wheel through the function of the setting lever and the intermediate setting wheel will gear with the minute wheel to set the hands.

At the same time, this motion of the setting wheel lever complete is transmitted to the day-date corrector wheel rocking lever and, the corrector wheel moves into a neutral position so that it will not gear with either the date dial and the intermediate wheel for day correction.



### 1) Specifications

Casing diameter:  $\phi$  27.0 mm  
 Height: 5.2 mm  
 Vibrations per hour: 21,600  
 Automatic winding  
 Calendar mechanism: Day and date, bilingual change-over system for the day of the week, instant day and date setting device

### 2) Features

#### • Highly reliable movement

The highly stabilized accuracy and high reliability established for the 61 series has been incorporated into the movement.

#### • Easy-to-use day/date setting device

All that is required for day-date correction is to turn the crown. Turn clockwise (away from you) for date setting; turn counter clockwise (towards you) for day setting.

#### • Easy after-servicing

Disassembling and reassembling procedures and serviceability have been improved largely by:

- employment of a new balance hair-spring holding device;
- decrease in number of parts resulting from the simplification of the movement structure;
- decrease in number of new parts resulting from interchangeability of some parts with Cal. 61 series.

### 3) Disassembling and reassembling

Disassembling procedures Figs.: ① ~ ⑤⑦  
 Reassembling procedures Figs.: ⑤⑦ ~ ①  
 The movement holder for 61 series is also used for disassembling and reassembling.

### 4) Lubrication

The following marks indicate the types of oil, and quantity to be applied and lubricating portions.

#### Type of oil

- Moebius A
- Moebius V
- SEIKO Watch Oil, S-2
- SEIKO Watch Oil, S-6

#### Oil quantity

- Liberal quantity
- Normal quantity
- Extremely small quantity

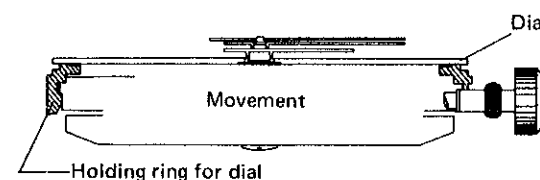
Note: Never lubricate the portions marked ⊗



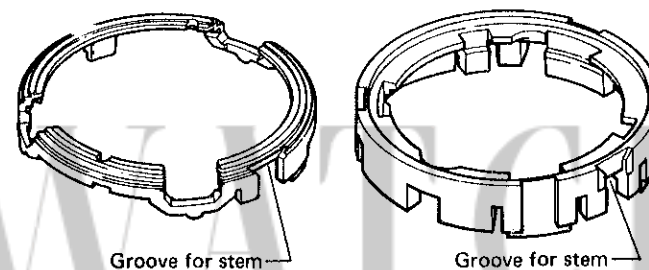
Movement

### Holding ring for dial

As this holding ring for the dial incorporates the two functions of both the currently used holding ring for dial and the case ring, it simplifies the casing of the watch.

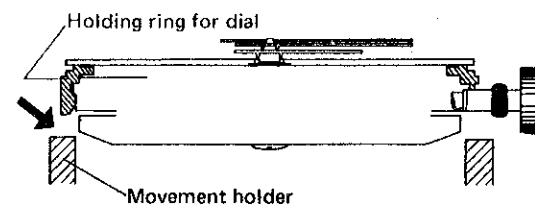


The holding ring for dial is generally classified into two types.



#### Note:

- The movement holder for 61 series cannot be used if the holding ring for dial is assembled with the movement, because the holding ring for dial touches when setting the movement into the movement holder as shown in the illustration. (The movement holder for 61 series can be used for the one-piece type case, square type case and case with dial ring.)



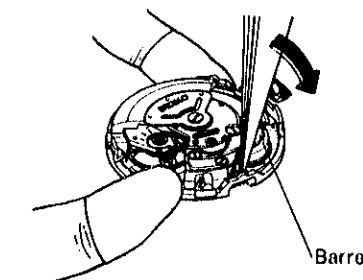
The holding ring for dial touches when setting the movement into the movement holder.

- Disassembling and reassembling of this holding ring for dial from the movement is a little different from that of the current holding ring for dial. Follow the procedures below.

### Disassembling

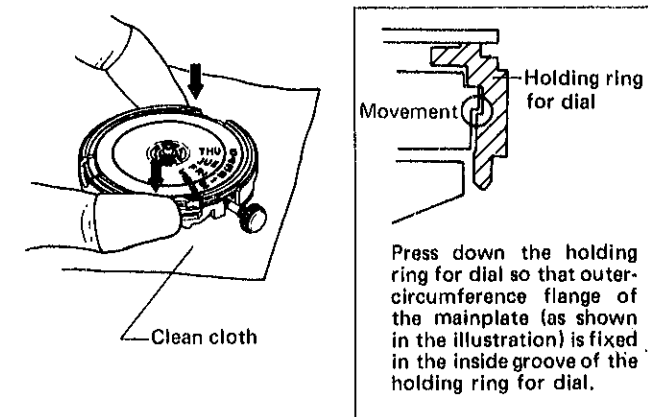
- When the movement is to be removed from the case, pull out the winding stem and turn the case upside down. The movement should fall out. It is not necessary to pull up on the holding ring for dial.

- After loosening the dial screws, the dial and the holding ring for dial can be removed together. Put the tip of tweezers into the groove of the main plate located near the barrel and pry toward the arrow marked direction as shown in the illustration. Then the dial and the holding ring for dial will be removed together.



### Reassembling

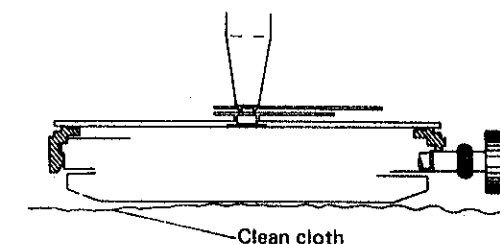
- Place the groove for the stem of the holding ring for dial upon the winding stem, and press down the holding ring for dial on the mainplate.
- Place the movement on a clean cloth when handling.



### Hour, minute and second hands

#### Note for reassembling:

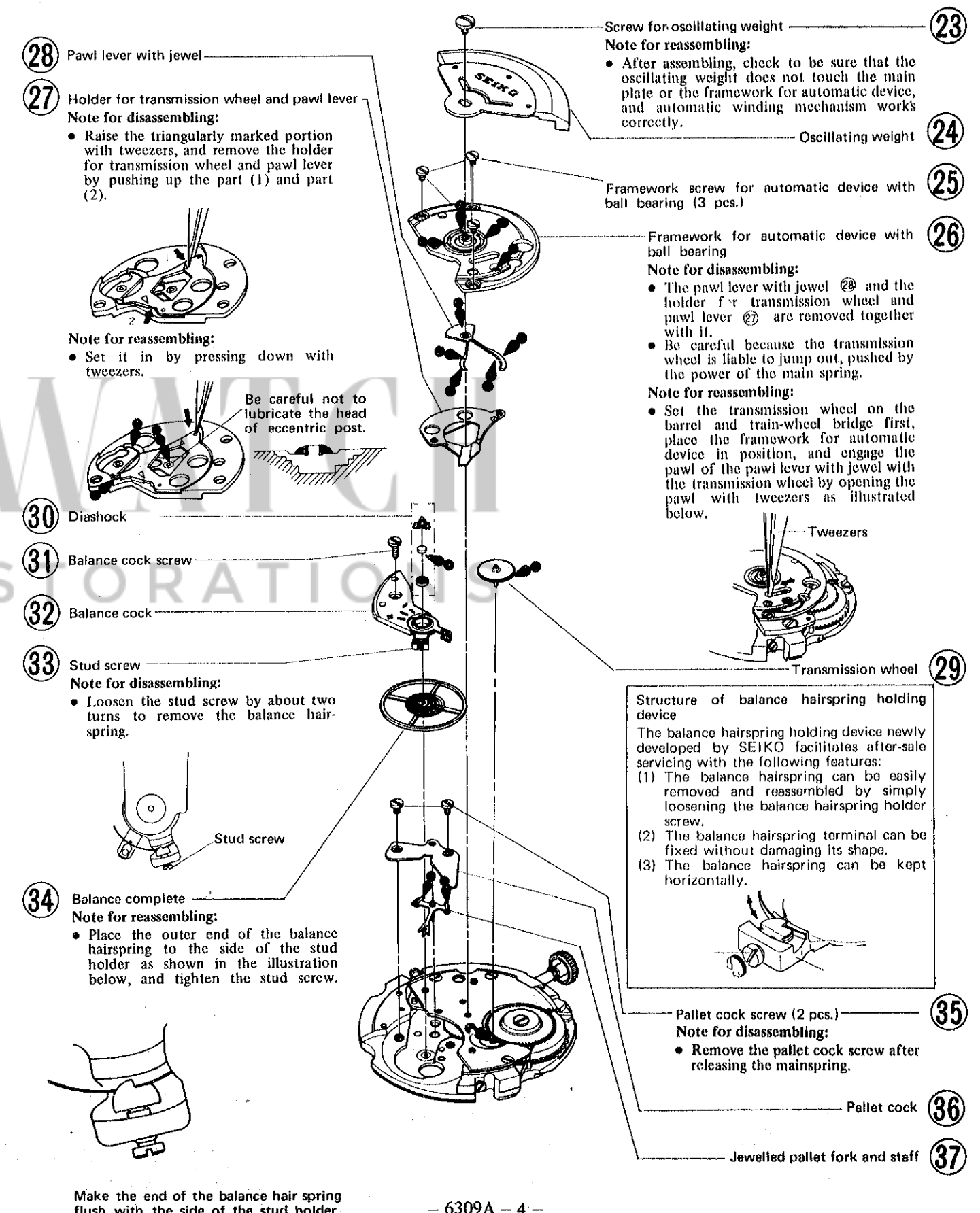
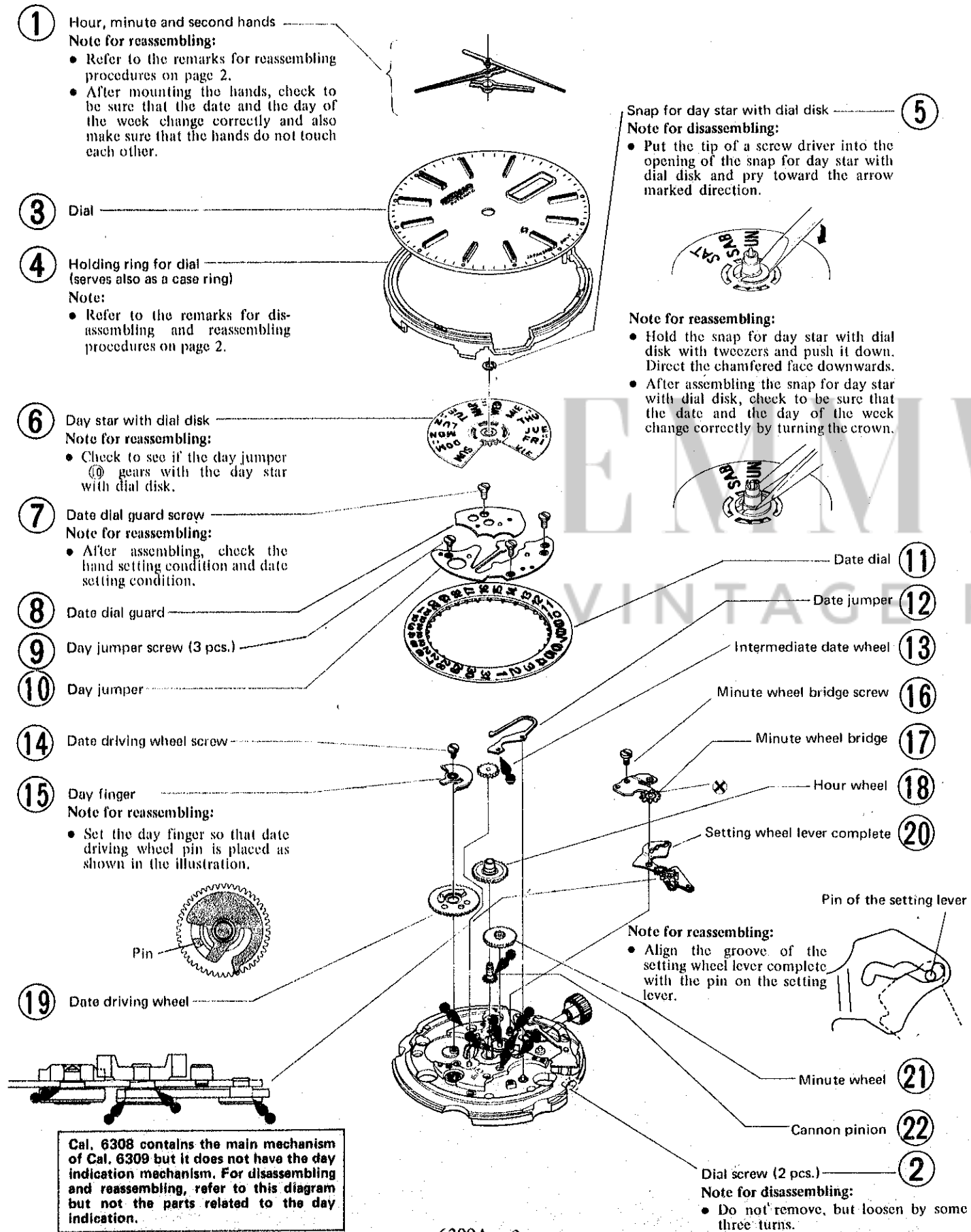
- When mounting the hands, place the movement on a clean cloth.



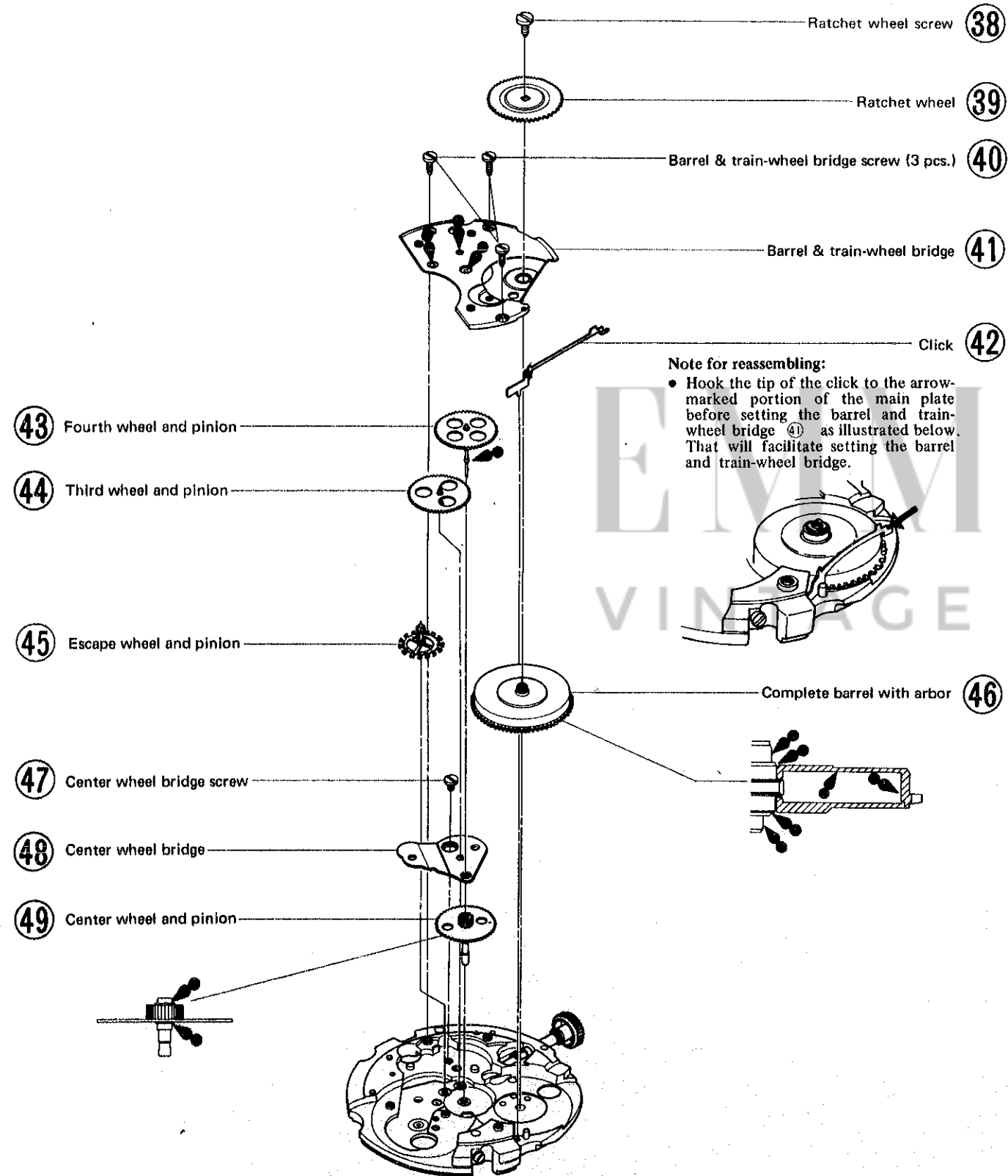


# 6309A Calendar mechanism

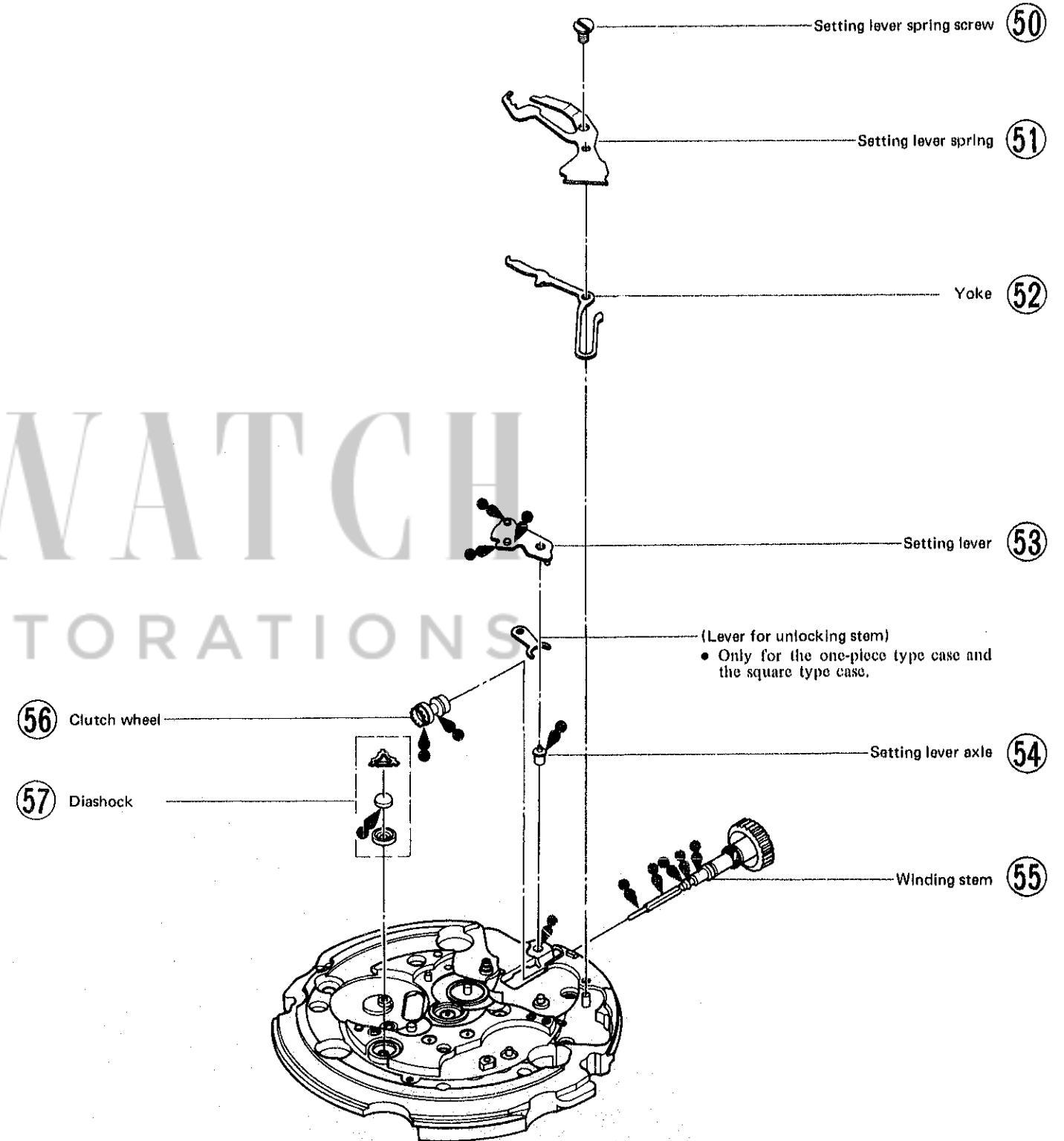
# 6309A Automatic winding mechanism, escapement and governor mechanism



# 6309A Gear train mechanism



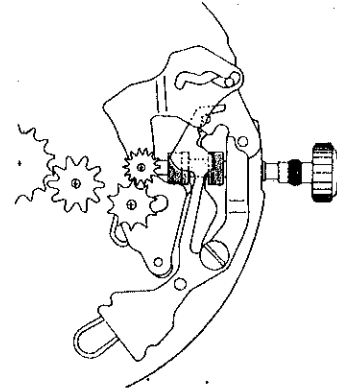
# 6309A Setting mechanism



## 6309A Setting mechanism

### Crown at the normal position (free)

The clutch wheel and the setting wheel do not gear with each other, and no power can be transmitted to the mainspring by turning the crown.

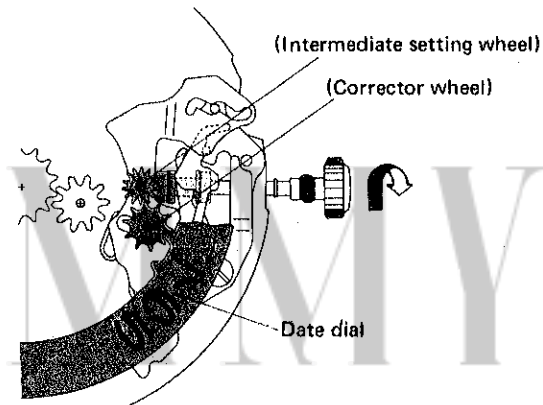


### Crown at the first click position (for day/date setting)

#### (1) Clockwise turning (date setting)

Turn the crown clockwise, and the corrector wheel will move toward the date dial and it will gear with the date dial to correct the date.

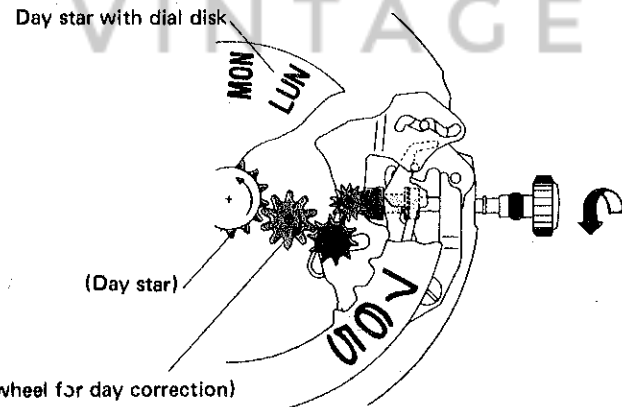
The turning force is transmitted from the Crown, Clutch Wheel, Setting Wheel, Intermediate Setting Wheel, Corrector Wheel and Date Dial.



#### (2) Counterclockwise turning (day setting)

Turn the crown counterclockwise, and the corrector wheel will move toward the day star with dial disk and it will gear with the intermediate wheel for day correction to the day.

The turning force is transmitted from the Crown, Clutch Wheel, Setting Wheel, Intermediate Setting Wheel, Corrector Wheel, Intermediate Wheel for Day Correction and Day Star with Dial Disk.



### Crown at the second click position (for hand setting)

The setting wheel lever complete will move toward the minute wheel through the function of the setting lever and the intermediate setting wheel will gear with the minute wheel to set the hands.

At the same time, this motion of the setting wheel lever complete is transmitted to the day-date corrector wheel rocking lever and, the corrector wheel moves into a neutral position so that it will not gear with either the date dial and the intermediate wheel for day correction.

