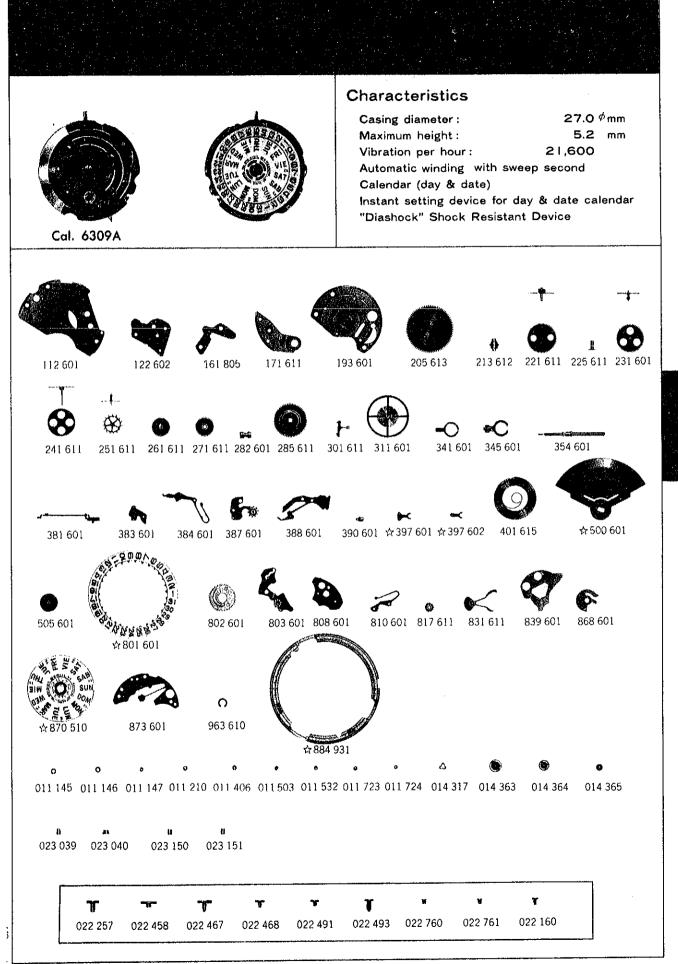
### SEIKO



☆⇔ Please see remarks.

Catalog No.

Calibre No. 6309A

Jewels 17j Style Name

PART NO.   PART NAME				
122 202	PART NO.	PART NAME	PART NO.	PART NAME
12 2 0	112 601	Barrel & train wheel bridge	014 365	Diashock hole jewel with frame
191 805			1)	
171 611   Balance cock   Framework for automatic device with ball-bearing   022 488   022 488   022 488   022 488   022 488   022 488   022 488   022 488   022 488   022 488   022 488   022 488   022 489			022 257	
ball-bearing 205 613 Complete barrel with arbor 218 612 Barrel arbor 218 612 Center wheel & pinion 221 611 Center wheel & pinion 231 601 Third wheel & pinion 241 611 Fourth wheel & pinion 251 611 Escape wheel & pinion 261 611 Minute wheel 271 611 Clutch wheel 282 601 Ratchet wheel 285 611 Stud holder 384 601 Stud holder 384 601 Setting lever syning 385 601 Setting lever syning 387 601 Center wheel Ever for unlocking stem B 401 615 Setting lever syning 397 621 Lever for unlocking stem B 401 615 Setting lever syning 398 601 Date dial guard A 503 601 Date dial guard A 503 601 Date dial guard B 688 601 Transmission wheel & pawl lever with jewel 187 610 Date dial guard A 573 601 Date dial guard A 574 601 Date dial guard A 575 601 Day tarr with dial disk 575 601 Day tarr with dial disk 575 601 Day star with dial disk 575 601 Day tarr with dial disk 575 601 Day star with dial disk 575 601 Day tarr with dial disk 575 6				
Complete barrel with arbor Barrel arbor Center wheel & pinion Center wheel Ciutch wheel Cultch wheel Ciutch	193 601	Framework for automatic device with		
213 612 21 611 221 611 Carler wheel & pinion Cannon pinion Third wheel & pinion 21 61 611 21 611 221 611 22 62 611 23 161 24 1611 27 1611 28 2611 31 1601 28 5611 31 1601 31 1			11	
Date driving wheel screw   22 448   231 401   231 401   241 401   222 401   233 401   232 401   233 401   233 401   234 401			022 468	
231 601 231 601 231 601 231 601 231 601 241 611 251 611 251 611 251 611 251 611 251 611 251 611 271 611 271 611 271 611 282 601 285 611 301 611 311 601 345 601 345 601 345 601 383 601 383 601 383 601 387 601 387 601 387 601 387 601 387 601 387 601 397 602 401 615 401 610 401 610 401 610 402 601 403 601 403 601 403 601 404 601 405 60	· · · · · · · · · · · · · · · · · · ·		000 440	Dete driving wheel screw
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241 511   Fourth wheel & pinion   222 760   222 761   2161   25 cape wheel & pinion   222 761   226 dial guard screw   222 761   226 dial screw   222 761   226 dial screw   223 031   226 dial guard screw   222 761   226 dial screw   223 151   226 dial screw		•	H ·	
221 411   Escape wheel & pinion   O22 760   O22 761   O		•	71	
Minute wheel   Hour wheel whee			11	Date dial guard screw
271 611 Hour wheel 282 601 Clutch wheel 285 611 Javelled pallet fork & staff 301 611 Javelled pallet fork & staff Balance complete Balance complete 345 601 Stud holder 354 601 Stud holder 354 601 Winding stem Click 383 601 Setting lever 387 601 Minute wheel bridge 388 601 Setting lever spring 390 601 Setting lever spring 390 601 Setting lever rouncoking stem B Aunspring with slipping attachment 505 601 Date dial guard A Boate date wheel 101 Date dial guard A Boate date wheel 117 611 Intermediate date wheel Pawl lever with jewel 117 611 Pawl lever with jewel 118 76 510 Day jumper 119 76 36 610 Sap y jumper 110 1146 Lower hole jewel for center wheel 111 146 Upper hole jewel for center wheel 111 140 Upper hole jewel for escape wheel 111 120 Upper hole jewel for pallet 117 23 Upwer hole jewel for transmission 117 23 Upper hole jewel for transmission 117 24 Upper hole jewel for transmission 117 24 Upper hole jewel for transmission			11	Day jumper screw
285 611 301 611 301 611 301 611 311 601 341 601 343 601 354 601 381 601 381 601 384 601 384 601 384 601 388 601 388 601 388 601 388 601 388 601 389 601 380 601 390 601 \$25 801 601 \$30 601 \$		Hour wheel	022 761	Dial screw
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311 601 Balance complete 341 601 Regulator 345 601 Stud holder 354 601 Stud holder 318 601 Click 383 601 Setting lever 386 601 Setting lever spring 388 601 Setting lever spring 390 601 Setting lever spring 397 602 Lever for unlocking stem B Mainspring with slipping attachment 050 601 Date dial guard A 050 601 Date dial guard A 051 601 Date dial guard A 051 601 Balance complete 023 151  Tube for pallet cock screw (recessed type) Tube for pallet cock screw (cylinder type) Tube for pallet occk screw (cylinder type) Tube for pallet cock s	285 611		023 039	
Regulator   Stud holder   Stud holder   Winding stem   O23 150   Tube for pallet cock screw (cylinder type)   Tube for pallet cock screw (cylinder type)   Tube for pallet cock screw (cylinder type)   Tube for barrel & train wheel bridge   Setting lever   Setting lever syring   Setting lever syring   Setting lever save   Lever for unlocking stem A   Lever for unlocking stem B   Lever for unlocking stem B   Mainspring with slipping attachment   Oscillating weight   Oscillating weight   Oscillating weight   Date dial   Date dial   Date dial   Date dial guard A   Date jumper   Intermediate date wheel   Bat dial guard A   Date jumper   Intermediate date wheel   Bat dial guard A   Date jumper   Intermediate date wheel   Bat dial guard A   Date jumper   Intermediate date wheel   Bat dial guard A   Date jumper   Intermediate date wheel   Bat dial guard A   Date jumper   Intermediate date wheel   Bat dial guard A   Date jumper   Intermediate date wheel   Day star with dial disk   Pawl lever with jewel   Bat dial guard A   Day jumper   Day star with dial disk   Holding ring for dial   Upper hole jewel for center wheel   Upper hole jewel for center wheel   Upper hole jewel for center wheel   Upper hole jewel for transmission wheel   Upper hole jewel for scape wheel   Upper hole jewel for pallet   Lower hole jewel for transmission   Upper hole jewel for pallet   Lower hole jewel for transmission   Upper hole jewel for pallet   Lower hole jewel for transmission   Upper hole jewel for pallet   Lower hole jewel for transmission   Upper hole jewel for pallet   Lower hole jewel for transmission   Upper hole jewel for pallet   Lower hole jewel for transmission   Upper hole jewel for pallet   Lower hole jewel for transmission   Upper hole jewel for pallet   Lower hole jewel for transmission   Upper hole jewel for transmission   Uppe		-		
345 601 334 601 334 601 331 601 Click Setting lever Yoke (Clutch lever) Minute wheel bridge Setting lever spring 397 601 A 397 602 Setting lever spring Sold lever for unlocking stem A Lever for unlocking stem B Mainspring with slipping attachment Oscillating weight Transmission wheel Date dial guard A Date dial guard A Date Jumper Ball 611 Ball 61 Ball 611 Bal			023 040	· ·
354 601		•	022150	
331 601 333 601 334 601 348 601 387 601 388 601 380 6			023 130	
383 601 384 601 386 601 387 601 388 601 380 601 380 601 397 601 4397 601 4397 601 401 615 500 601 505		<del>-</del>	023 151	\ ' ' ' ' '
384 601 Minute wheel bridge 388 601 Setting lever spring 390 601 Setting lever axle 2397 601 Lever for unlocking stem A 2401 615 Mainspring with slipping attachment 505 601 Transmission wheel 505 601 Date driving wheel 803 601 Date driving wheel 803 601 Setting wheel lever complete 808 601 Date driving wheel 808 601 Date driving wheel 808 601 Date jumper 817 611 Intermediate date wheel 817 611 Intermediate date wheel 839 6(1 Pawl lever with jewel 848 601 Day jumper 868 601 Day jumper 963 610 Day star with dial disk 873 601 Day jumper 963 610 Sap for day star with dial disk 484 931 Upper hole jewel for center wheel 811 145 Upper hole jewel for center wheel 811 146 Upper hole jewel for center wheel 811 147 Upper hole jewel for center wheel 811 148 Upper hole jewel for center wheel 811 149 Upper hole jewel for center wheel 811 140 Upper hole jewel for escape wheel 811 140 Upper hole jewel for escape wheel 811 140 Upper hole jewel for pallet 811 141 Upper hole jewel for pallet 811 142 Upper hole jewel for third wheel 811 143 Upper hole jewel for third wheel 811 144 Upper hole jewel for third wheel 811 143 Upper hole jewel for third wheel 811 143 Upper hole jewel for third wheel 811 143 Upper hole jewel for third wheel 811 144 Upper hole jewel for third wheel 811 145 Upper hole jewel for third wheel 812 Upper hole jewel for third wheel 813 145 Upper hole jewel for third wheel 814 145 Upper hole jewel for third wheel 815 Upper hole jewel for third			020 101	
387 601 Minute wheel bridge 388 601 Setting lever spring 390 601 Setting lever axle				
388 601 Setting lever spring 390 601 Setting lever axle 2 397 602 Lever for unlocking stem A Lever for unlocking stem B Mainspring with slipping attachment 0 Socillating weight 505 601 Transmission wheel 2 808 601 Date dial 802 601 Bate dial User complete Bate dial guard A Bate di			ll l	
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# 397 602 401 615 Mainspring with slipping attachment 5050 601 Cosillating weight Transmission wheel B02 601 B03 601 B03 601 B04 601 B05 601 Date dial B05 601 Date dial B06 601 B07 601 B08 601 B09 B08 B08 601 B09 B08 B08 601 B09 B08 B08 601 B09 B08	390 601			
## A01 615  ## A01 Serving with slipping attachment Oscillating weight Transmission wheel Date dial B02 601 Date dial Date dial Setting wheel lever complete Date dial guard A B10 601 Date dial guard A B10 601 Date jumper Intermediate date wheel B39 601 Holder for transmission wheel & pawl lever with jewel B39 601 Day star with dial disk pawl lever B68 601 Day star with dial disk Day jumper Snap for day star with dial disk Holding ring for dial Upper hole jewel for center wheel Upper hole jewel for center wheel Upper hole jewel for center wheel Upper hole jewel for escape wheel Upper hole jewel for escape wheel Upper hole jewel for escape wheel Upper hole jewel for pallet Upper hole jewel for pallet Upper hole jewel for transmission Upper hole jewel for pallet Upper hole jewel for third wheel Upper hole jewel for				
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Transmission wheel				ļ
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014 317 Diashock spring	!			
014 363 Diashock upper frame	i .		11	
014 364 Diashock lower frame	014 364	Diashock lower trame	<u> </u>	

☆⇒ Please see remarks on the next page.

Calibre No.

6309A

Jewels

Style Name

17j

#### 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

★801601 (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  $\bigcirc$  Cal. No.  $\oslash$  the crown position  $\bigcirc$  the calendar frame position and  $\bigcirc$  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 Cal. No.	500 620	500 622	500 601
6105 A & B 6106 B & C 6117 A & B 6118A 6119 B & C	V	V	V
6109A	٧	٧	٧
63 Series			٧

V : Interchangeable

---: Not interchangeable

#### Form of oscillating weight







J00 620

500 622

500 601

#### 1) Specifications

Casing diameter: Height:

φ 27.0 mm 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

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 hairspring 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.:  $\bigcirc$   $\bigcirc$   $\bigcirc$  Reassembling procedures Figs.:  $\bigcirc$   $\bigcirc$   $\bigcirc$   $\bigcirc$  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.

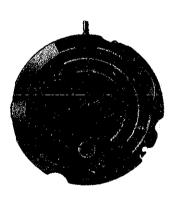
#### Type of oil

- 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 80

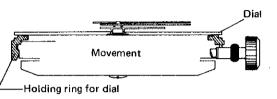




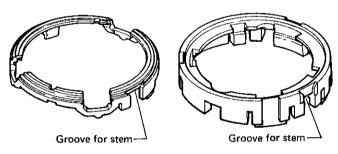
Movement

#### 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.

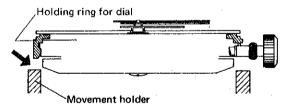


The holding ring for dial is generally classified into two types.



#### 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.)

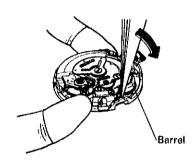


The holding ring for dial touches when setting the movement into the movement holder.

 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.

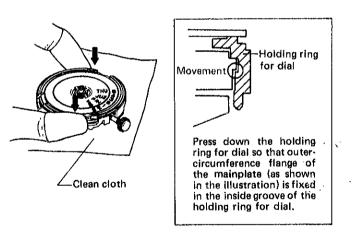
#### Disassembling

 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

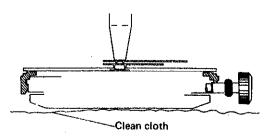
- Place the groove for the stem of the holding ring for dial upon the winding stem, and press down the holding ring for dial on the mainplate.
- Place the movement on a clean cloth when handling.



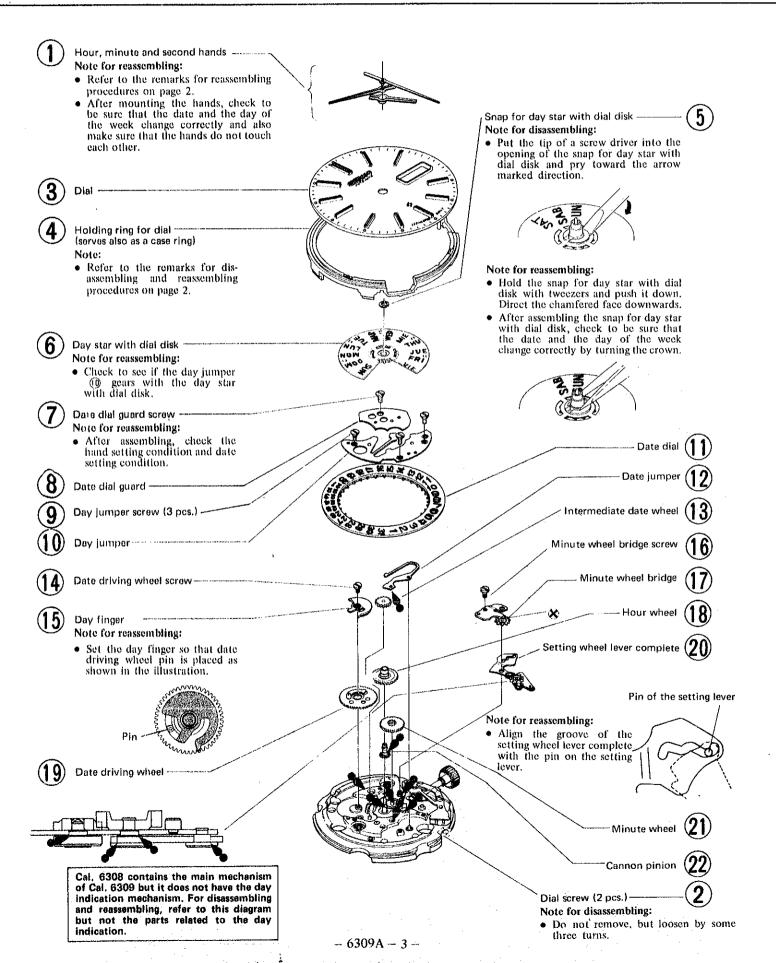
#### Hour, minute and second hands

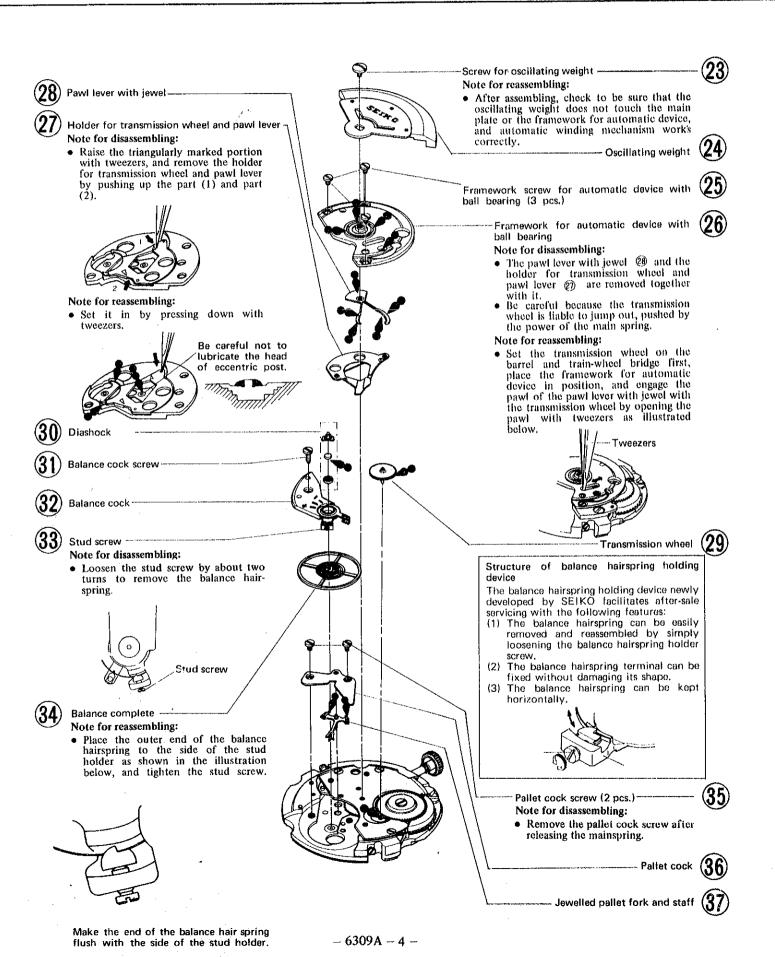
Note for reassembling:

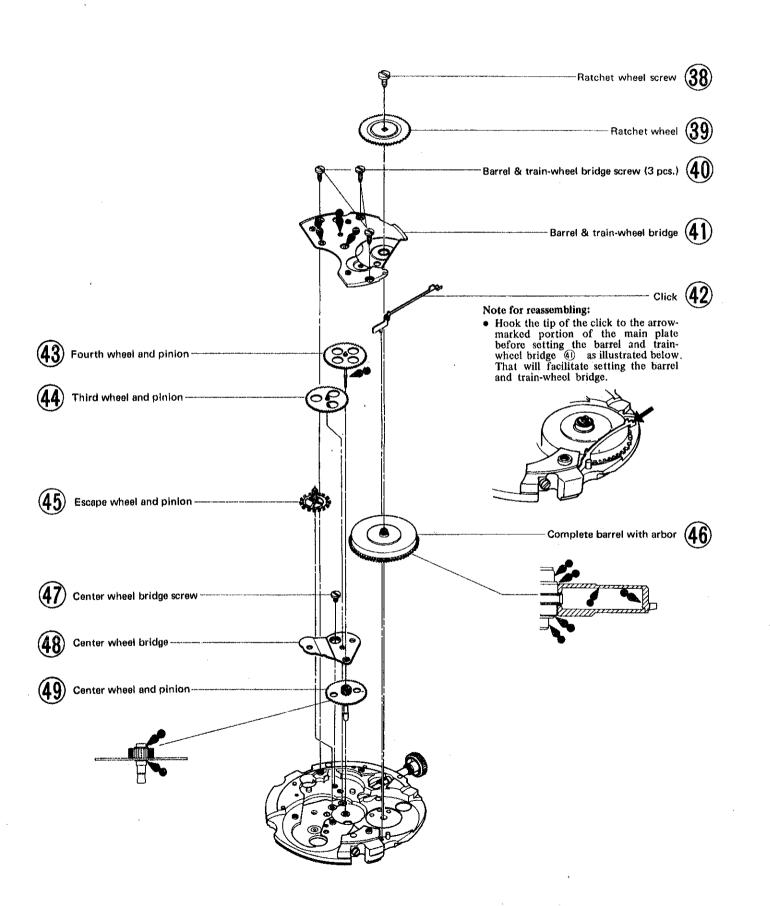
• When mounting the hands, place the movement on a clean cloth.

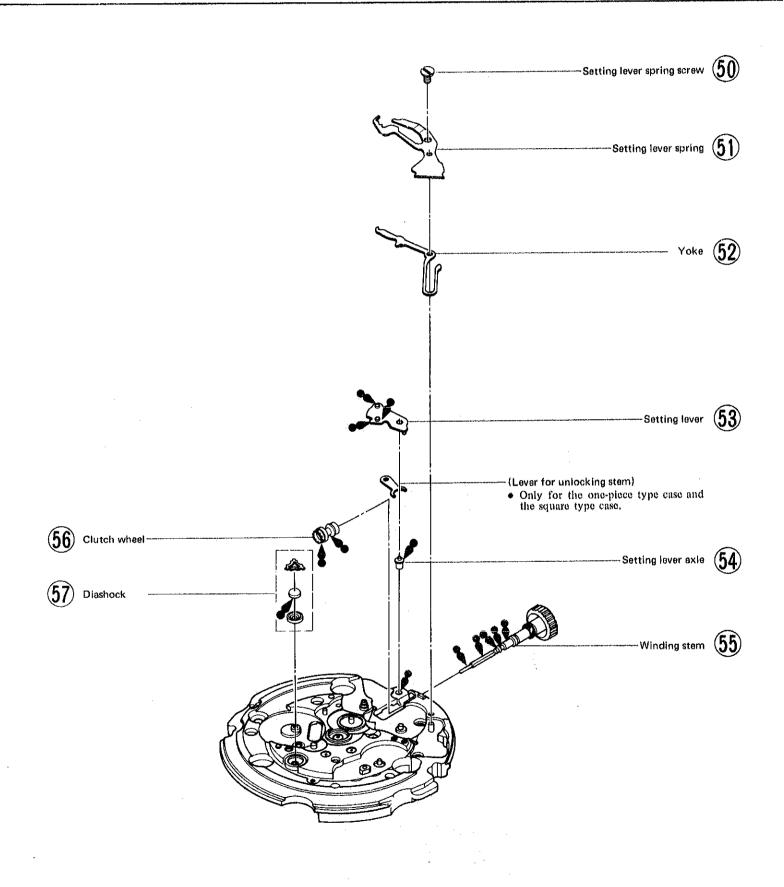


# 6309A Automatic winding mechanism, escapement and governor mechanism









### 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.

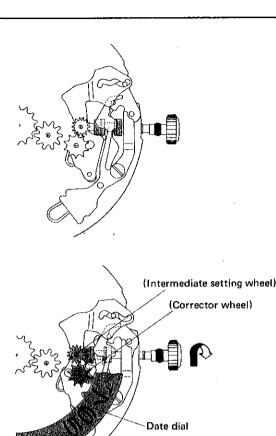
(2) Counterclockwise turning (day setting) Turn the crown counterclockwise, and the corrector wheel will move toward the day star with dial disk and it will gear with the intermediate wheel for day correction to the day.

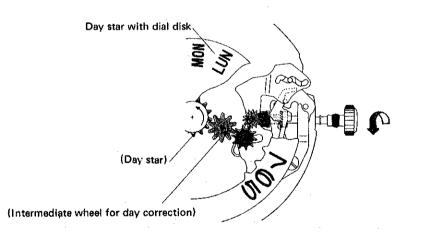
The turning force is transmitted from the Crown, Clutch Wheel, Setting Wheel, Intermediate Setting Wheel, Corrector Wheel, Intermediate Wheel for Day Correction and Day Star with Dial Disk.

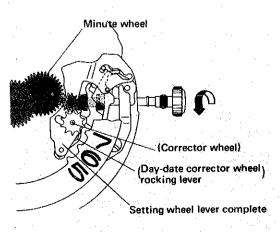
# Crown at the second click position (for hand setting)

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.







- 6309A - 7 -

#### 1) Specifications

Casing diameter: Height: φ 27.0 mm 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
- 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 hairspring 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.:  $\bigcirc$   $\sim$   $\bigcirc$  Reassembling procedures Figs.:  $\bigcirc$   $\sim$   $\bigcirc$  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 80

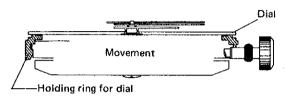




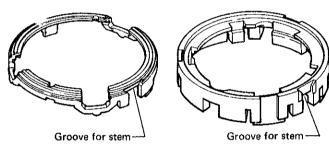
Movement

#### 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.

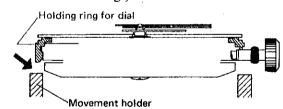


The holding ring for dial is generally classified into two types.



#### 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.)

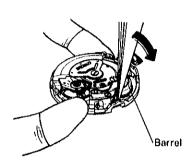


The holding ring for dial touches when setting the movement into the movement holder.

• 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.

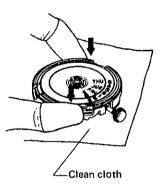
#### Disassembling

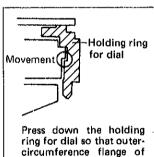
 When the movement is to be removed from the case, pull out the winding stem and turn the case upside down. The movement should fall out. It is not necessary to pull up on the holding ring for dial. • After loosening the dial screws, the dial and the holding ring for dial can be removed together. Put 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.





the mainplate (as shown

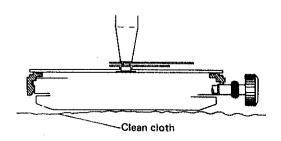
in the illustration) is fixed

holding ring for dial.

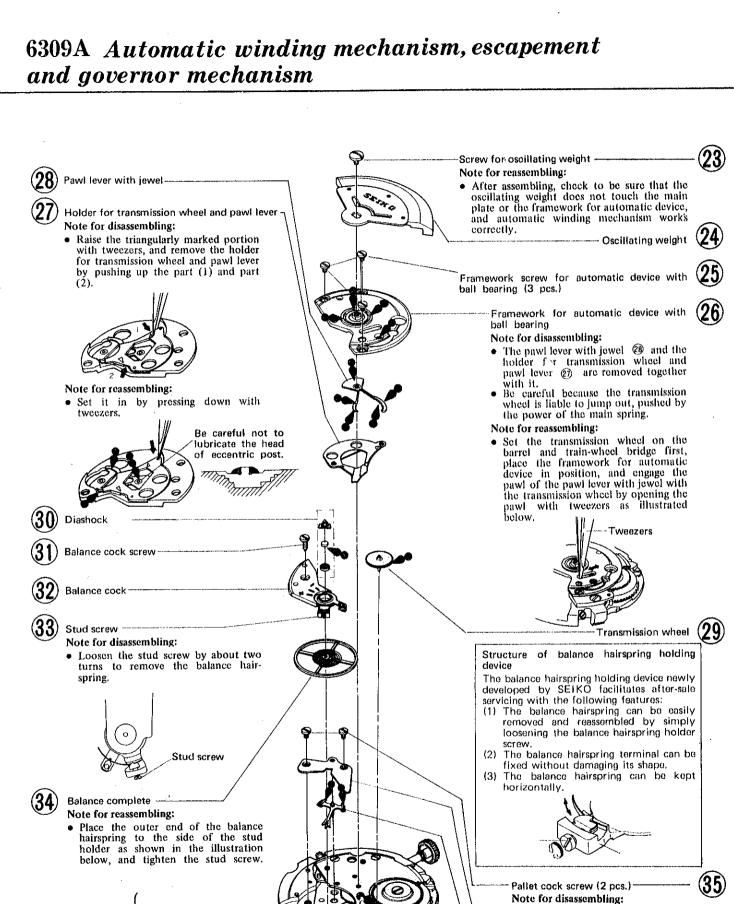
#### Hour, minute and second hands

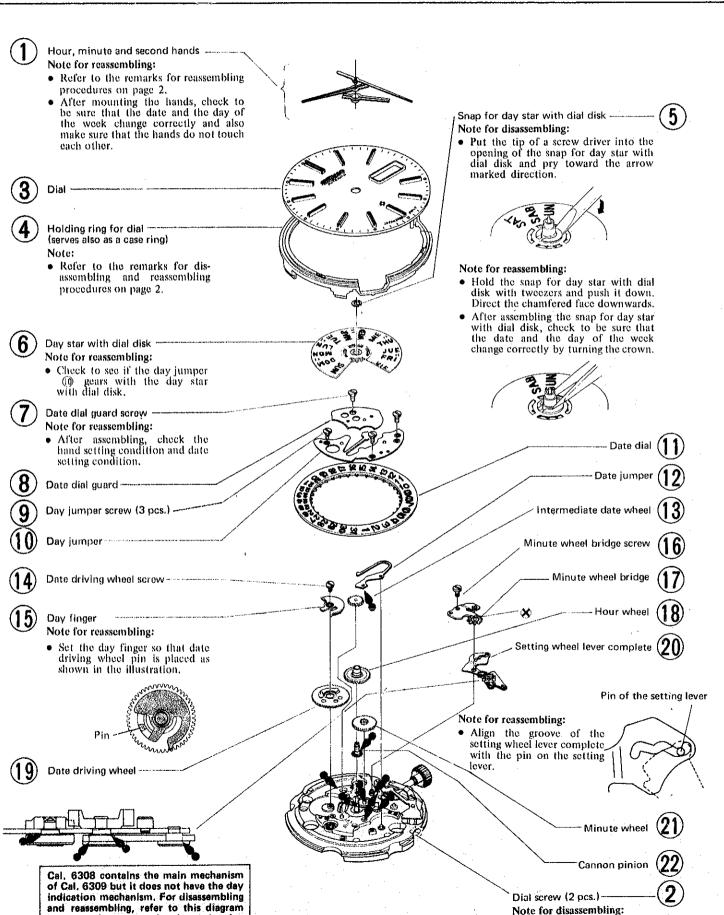
Note for reassembling:

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



but not the parts related to the day





-- 6309A -- 3 --

Make the end of the balance hair spring flush with the side of the stud holder.

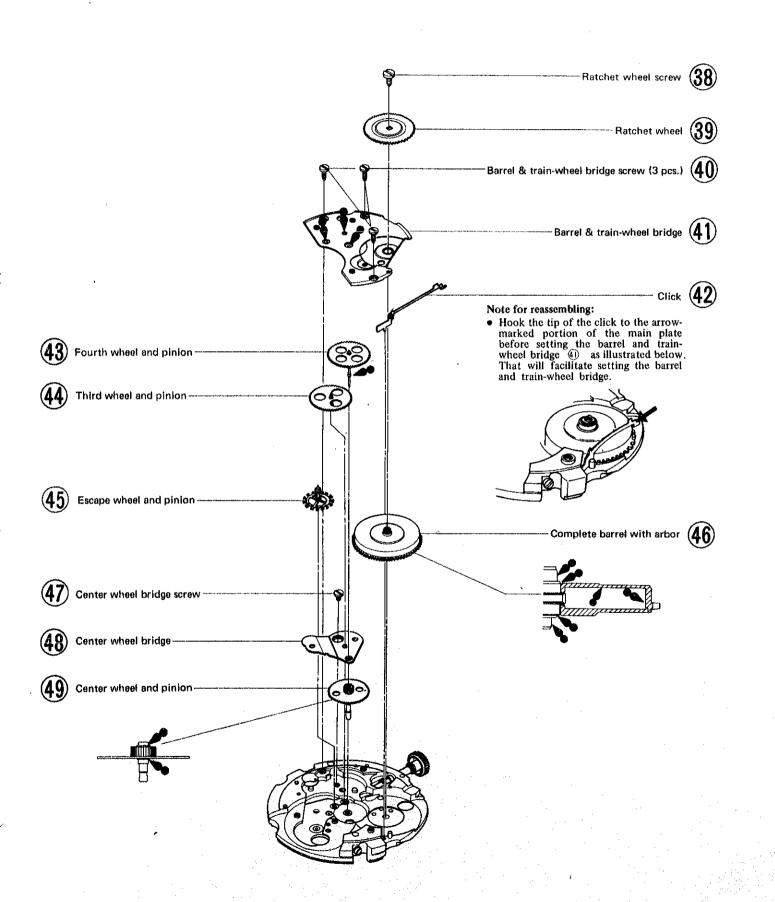
• Do not remove, but loosen by some

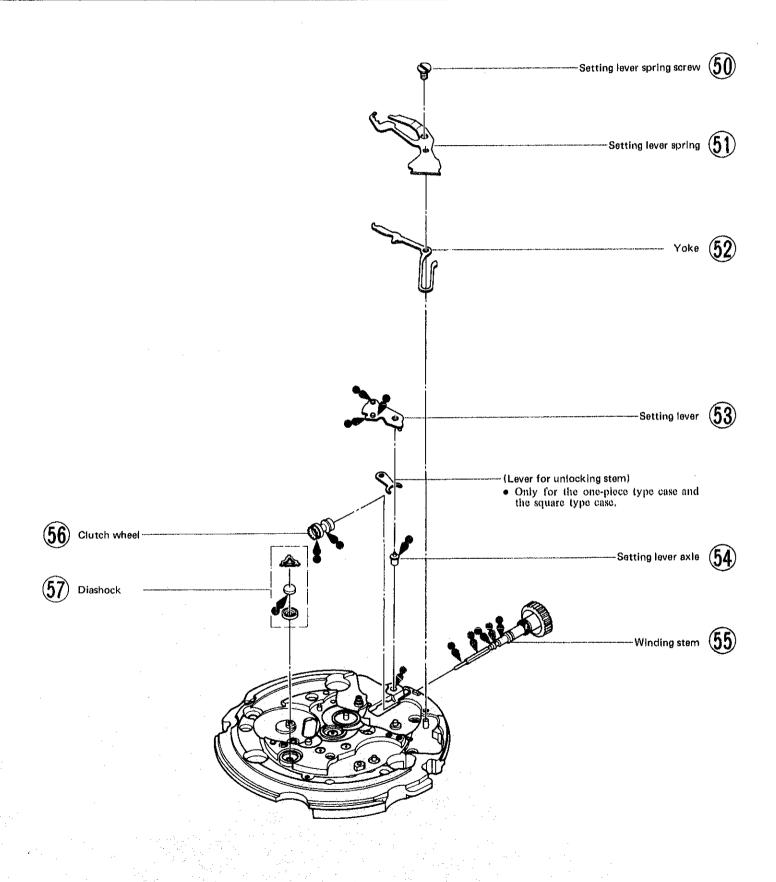
three turns.

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 Remove the pallet cock screw after releasing the mainspring.

Jewelled pallet fork and staff





### 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.

