SEIKO





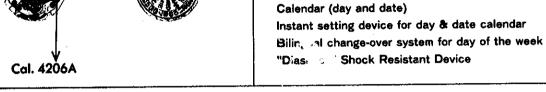
Characteristics

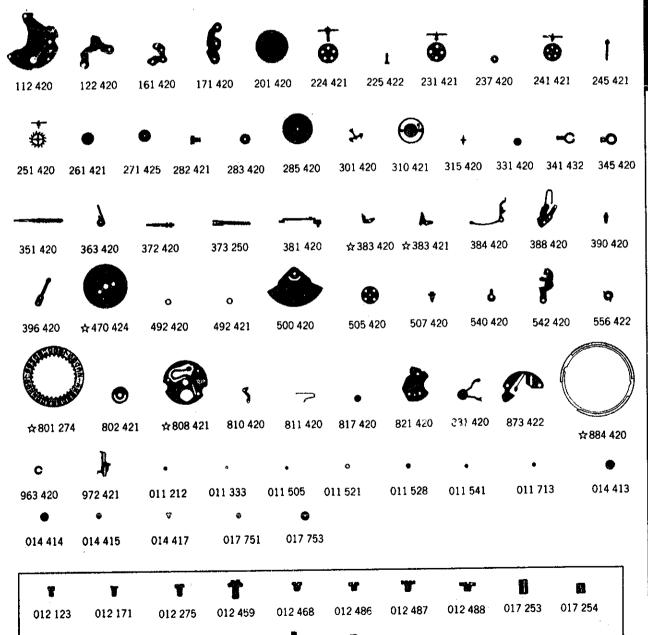
Casing diameter: ϕ 17.2 mm Maximum height: 5.5 mm

Vibration per hour : 21,600

Automatic and auxiliary hand winding with sweep

second





017 374

017 259

017 257

017 256

017 255

017 369

Catalog Z o

%

Calibre No.

	4206A 17j						
PART NO.	PART NAME	PART NO.	PART NAME				
112 420	Barrel & train-wheel bridge	☆884 422)	4 422)				
122 420	Center wheel bridge	☆884 423 }	Holding ring for dial				
161 420	Pallet cock	963 420	Snap for day star with dial disk				
171 420	Balance cock	972 421	Day-date corrector finger				
201 420	Complete barrel with arbor & main spring	011 212	Diashock upper cap jewel Diashock lower cap jewel				
224 421	Center wheel with cannon pinion	011 333	Upper hole jewel for third wheel				
225 422	Cannon pinion	011 505	Upper hole jewel for pallet				
231 421	Third wheel & pinion	011 505	Lower hole jewel for pallet				
237 426	Ratchet intermediate wheel	011 521	Upper hole jewel for center viñeel				
241 421	Fourth wheel & pinion	011 521	Lower hole jewel for center wheel				
245 421 251 420	Sweep second pinion	011 528	Upper hole jewel for escape wheel				
261 421	Escape wheel & pinion Minute wheel	011 528 011 541	Lower hole jewel for escape wheel Upper hole jewel for founth wheel				
271 425	Hour wheel	011713	Lower hole jewel for sweep second				
282 421	Clutch wheel		pinion				
2,83 420	Winding pinion	012123	Stud screw				
285 420	Ratchet wheel	012 171	Day jumper screw				
301 420 310 421	Jewelled pallet fork & staff Balance complete with stud	012 275	Barrel & train wheel bridge screw Balance cock screw				
315 420	Balance staff	012 275 012 275	Setting lever spring screw				
331 420	Roller with jewel	012 275	Screw for rocking seat for idle wheel				
341 432	Regulator	012 459	Case screw				
345 420	Stud holder	012 468	Center wheel bridge screw				
351 420	Winding stem	012 468	Pallet cock screw				
363 420	Sliding crown wheel spring	012 468	Date driving wheel screw				
372 420 373 250	Joint stem (Movement portion) Joint stem (Crown portion)	012 468	Date dial guard screw Screw for Ball-bearing complete				
381 420	Click	012 487	Transmission wheel screw				
☆383 420 \	Setting lever	012 488	Screw for oscillating weight				
☆383 421 ∫		014 413	Diashock upper frame				
384 420	Yoke (Clutch lever)	014 414	Diashock lower frame				
388 420	Setting lever spring Setting lever axle	014 415	Diashock upper hole jewel with frame Diashock lower hole jewel with frame				
395420	Friction spring for sweep second	014 417	Diashock upper spring				
	pinion	014 417	Diashock lower spring				
☆470 424	Day star with dial disk	☆017 253	Tube for barrel & train-wheel bridge				
492 420	Balance cock washer		screw				
492 421	(0.015 mm thickness, told)	☆017 253	Tube for balance cock screw				
772 721	Balance cock washer (0.028 mm thickness, silver)	☆017 253 ☆017 254	Tube for rocking seat for idle wheel Tube for center wheel bridge screw (A)				
500 420	Oscillating weight	☆017 254	Tube for pallet cock cock screw (B)				
505 420	Transmission wheel	017 255	Tube for center wheel bridge screw (B)				
507 420	Transmission pinion	017 256	Tube for date driving wheel				
540 420	Dial leg holder	017 257	Tube for date dial guard (A)				
542 420 556 422	Rocking seat for idle wheel Date finger	017 259	Tube for date dial guard (B)				
☆801 274	Date miles	017 369 017 374	Tube for pallet cock screw (A) Dial leg holder pin				
☆801 275	D-4- 41-4	☆017 631	Tube for barrel & train-wheel bridge				
☆801 276	Date dial		screw				
☆801 277	<u>.</u>	☆017 631	Tube for balance cock screw				
802 421	Date driving wheel	☆017 631	Tube for rocking seat for idle wheel				
☆808 421 810 420	Date dial guard Date jumper	☆017 633	Tube for center wheel bridge screw (A)				
811 420	Date jumper spring	☆017 633 017 751	Tube for pallet cock screw (B) Lower bush for transmission pinion				
817 420	Intermediate date wheel	017 753	Upper bush for transmission pinion				
821 420	Ball-bearing for oscillating weight						
831 420	Pawl lever with jewel		1				
873 422	Day jumper						
☆884 420 }	Holding ring for dial						
A007 421)							
- C Diána	· · · · · · · · · · · · · · · · · · ·	<u> </u>					

Style Name

Jewels

☆⇔Please see remarks on the reverse page. Part numbers in light letters are not shown in photos.

4206A

lewels

Style Name

Remarks :

Setting lever

There are two types of setting levers. Select the suitable setting lever by reffering the shapes in the photograph. **☆383 420 `** ☆383 421

If the combination of the setting lever and case is unknown, check the case number and refer to "SEIKO Casing Parts Catalogue" to choose an appropriate set lever.

Day star with dial disk

☆470 424(English-Spanish, 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 day star with dial disk is required, specify the number printed the disk.

Date dial

Used when both the crown and the calendar ☆801 274(Black figures on wite background)

are located at 3 o'clock position. ☆801 275 (White figures on black background)

Used when the crown are located at 3 o'clock \$801 276(Black figures on white background) } and the calendar frame at 6 o'clock position.

☆801 277 (White figures on black background) If any other type of date dial is required, specify ① Cal. No. ② Jewels ③ The crown po 4 The calendar frame position and 5 Dial No.

#808 421 ······The date dial guard designated by the same parts number may have different type shape, but they can be used in common.

Holding ring for dial

The type of holding ring for dial is determined based on design of cases and dial ☆884 420 If the shape of holding ring for dial is different from the photograph, check the ca ☆884 421 number and refer to "SEIKO Casing Parts Catalogue" to choose a corresp ☆884 422 ☆884 423 holding ring for dial.

Tube for barrel & train wheel bridge screw, Tube for balance cock screw, Tube for rocking for idle wheel, Tube for center wheel bridge screw (A), Tube for pallet cock screw (B).

There are two different types as specified below

Туре	Tube for barrel & train wheel bridge screw Tube for balance cock screw Tube for rocking seat for idle wheel	Tube for center wheel bridge screw (A) Tube for pallet cock screw (B)
a		
	☆017 253	☆017 254
b	☆017 631	★017 633

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Printed in Japan						9	
		n ng Pagga Singap Ng Silangan					

4206A Calendar Mechanism

Disassembling and reassembling of the dial

1) SPECIFICATIONS

Casing diameter

φ17.2mm

Height

5.5mm

Vibrations per hour 21,600 times/hour

Automatic winding (with auxiliary hand winding)

Calendar mechanism (Day and date, bilingual changeover system for the day of the week, instant day and date setting)

2) FEATURES

- This is a ladies' watch with a variety of functions. It has a thin movement which allows for its diversified development of various designs.
- Easy-to-use day and date setting device Day and Date can be set simply by turning the crown clockwise or counterclockwise at the first click and also bilingual changeover for the day of the week can be done instantly.

3) DISASSEMBLING AND REASSEMBLING

Disassembling procedures Fig.: (1) → (56)

Reassembling procedures Fig.: (56) → (1)



At the normal position:

At the first click:

day of the week

For setting the hands

ting the date At the second click:

For winding the mainspring

(Clockwise) For setting the

(Counterclockwise) For set-

4) LUBRICATING

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

- Type of oil
 - Moeblus A
 - SEIKO Watch oil S-6
 - SEIKO Watch oil S-4
 - Moebius V
- Oil quantity

CC Liberal quantity

Normal quantity

Extremely small quantity

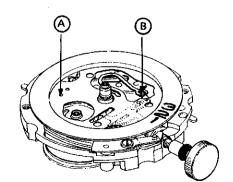


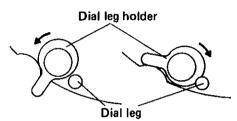


Instructions

Date dial guard

When reassembling the date dial guard, set the hole of the date dial guard to the guide pin of the date jumper (arrow marked A) first. Then put the protrusion of the day-date collector finger into the hole on the tip of spring portion of the date dial guard (arrow marked B) for reassembling.





[Disassembling]

[Reassembling]

Snap for day star with dial disk

There are dial leg holders

on two places (arrow-

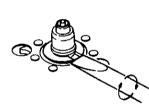
marked portions) of the

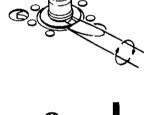
movement. Turn the dial

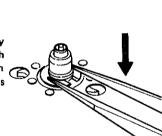
leg holder about 90 de-

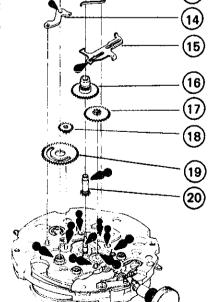
grees and then disassemble or reassemble the dial.

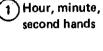
- How to disassemble Put the tip of a screwdriver into the groove of the snap for day star with dial disk and pry it
- How to reassemble Hold the snap for day star with dial disk with tweezers in its slot in line with the center axis and push it down.



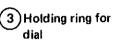








2 Dial



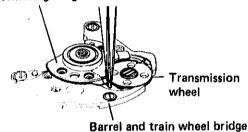
- 4 Snap for day star with dial disk * Be careful not
- to mistake the upper side for the lower side.
- (5) Day star with dial
- 6 Date driving
- wheel screw 7 Date finger
- (8) Day jumper screw (2 pcs.)
- 9 Date dial screw
- (10) Day jumper
- (11) Date dial guard
- (12) Date dial
- 13) Date jumper spring
- (14) Date jumper
- (15) Day-date collector
- (16) Hour wheel
- (17) Minute wheel
- (18) Intermediate date
- (19) Date driving wheel
- (20) Cannon pinion

4206A Automatic Winding, Escapement, and Governor Mechanism

How to set the pawl lever with jewel

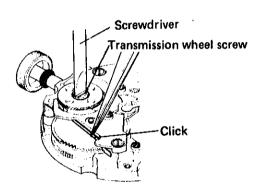
Set it to the ball-bearing for oscillating weight after lubricating the eccentric pin on the ball-bearing for oscillating weight. Then put the ball-bearing for oscillating weight on the barrel and train wheel bridge and widen the pawl lever with jewel softly with tweezers to engage it with the transmission wheel. (Be careful not to widen the pawl lever with jewel too much because it causes the pawl lever with jewel to break or become deformed.)

Ball-bearing for oscillating weight



How to unwind the mainspring

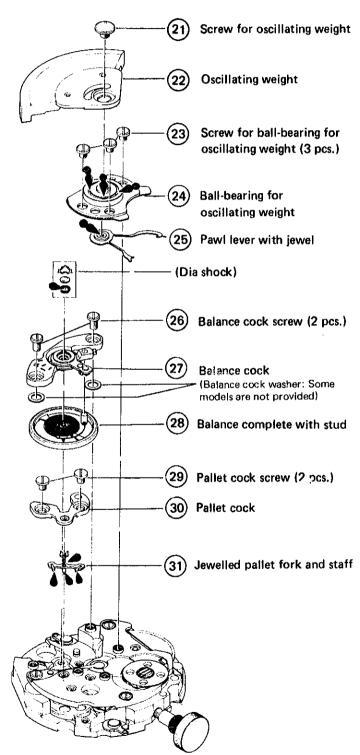
Unwind the mainspring as shown in the illustration below before disassembling the pallet cock.



Apply a screwdriver to the transmission wheel screw and turn it counterclockwise a little. The click comes off from the ratchet wheel. Then unwind the mainspring by turning the transmission wheel screw clockwise slowly after pulling out the click from the ratchet wheel with tweezers.

Balance cock washer

Balance cock washer is for adjusting the end shake of balance complete with stud.

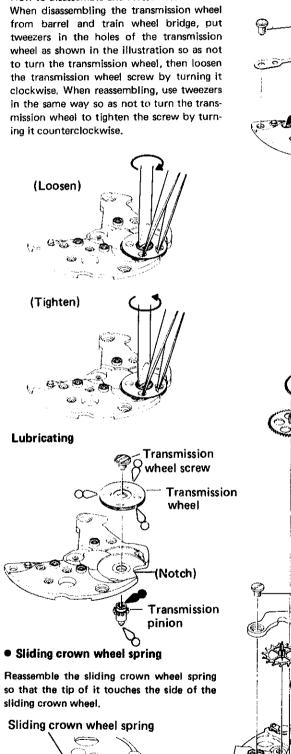


4206A Gear Train Mechanism

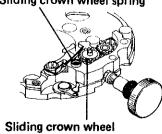
• Transmission wheel

How to disassemble and reassemble

When disassembling the transmission wheel from barrel and train wheel bridge, put tweezers in the holes of the transmission wheel as shown in the illustration so as not to turn the transmission wheel, then loosen the transmission wheel screw by turning it clockwise. When reassembling, use tweezers in the same way so as not to turn the transmission wheel to tighten the screw by turn-



so that the tip of it touches the side of the



(32) Barrel and train wheel bridge screw (3 pcs.) (33) Friction spring for sweep second pinion * Be careful not to deform it or the second hand may not function correctly. (34) Barrel and train wheel bridge Transmission wheel screw Transmission wheel Transmission pinion (35) Click (36) Ratchet wheel (37) Complete barrel with arbor and mainspring (38) Sweep second pinion (39) Third wheel and pinion (40) Fourth wheel and pinion (41) Screw for rocking seat for idle wheel (2 pcs.) (42) Sliding crown wheel spring (43) Ratchet intermediate wheel (44) Rocking seat for idle wheel (Sliding crown wheel) Lubricating

(45) Center wheel bridge screw (2 pcs.)

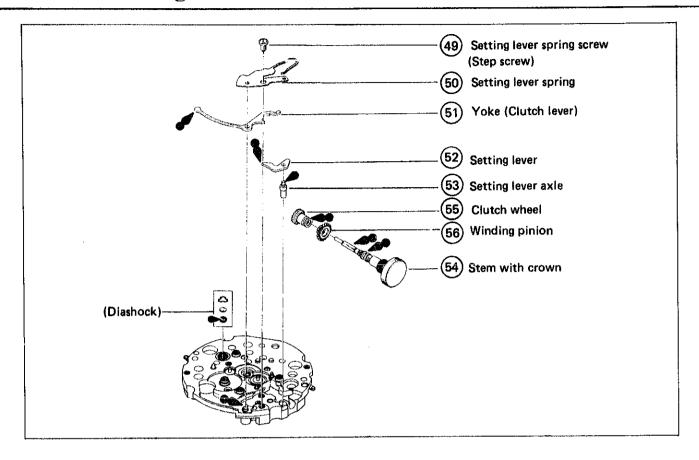
(46) Center wheel bridge

(47) Escape wheel and pinion

(48) Center wheel and pinion

* When disassembling and reassembling pull the crown out to the second click.

4206A Setting Mechanism



OPERATING INSTRUCTIONS FOR AUTOMATIC WINDUP MECHANISM

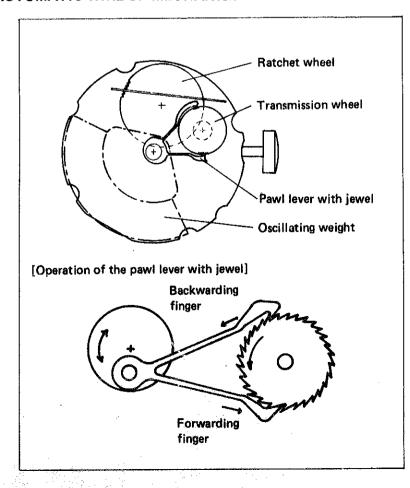
1. Automatic winding mechanism

Cal. 4206A is equipped with an automatic winding mechanism of pawl lever type which is of fine assembly and winding efficiency.

The pawl lever with jewel is attached to the eccentric pin on the ball-bearing for oscillating weight which is under the oscillating weight. Therefore, when the oscillating weight oscillates around to left or right, pawl lever with jewel moves backward and forward against the transmission wheel. The end of the pawl lever with jewel is divided into two points and the tip of the finger engages with the transmission wheel cog.

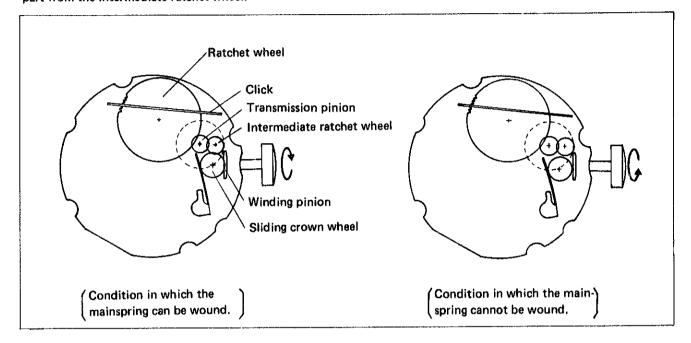
The transmission wheel cog takes the ratchet shape and the transmission wheel turns around in one direction by operation of the pawl lever with jewel.

Rotation of the transmission wheel is transmitted to the ratchet wheel which is engaged with the transmission wheel and eventually the mainspring will be wound.



The mainspring of this watch can be wound by operating the crown as well as the automatic winding mechanism. When the crown is turned clockwise, rotatory power is transmitted in the following order and the mainspring will be wound eventually.

Winding pinion → Sliding crown wheel → Intermediate ratchet wheel → Transmission pinion → Ratchet wheel if the crown is turned counterclockwise, the mainspring won't be wound because the sliding crown wheel will part from the intermediate ratchet wheel.

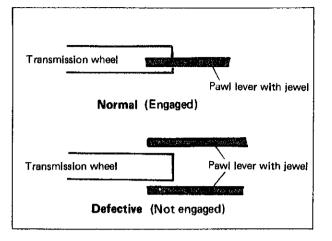


4206A Checking for Automatic Windup Mechanism

When there is any defect with the automatic windup mechanism, the mainspring cannot be wound and the watch itself stops functioning. In this case, check the following items:

• Engagement condition of pawl lever with lewel and transmission wheel,

Confirm if the pawl lever with jewel engages with the cog of the transmission wheel. If the cogs are out of engagement, repair it through the procedures below.

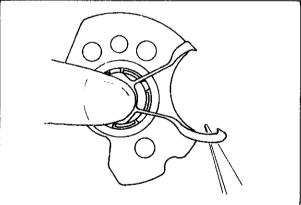


Procedure 1

Turn over the ball-bearing for oscillating weight and put the pawl lever with jewel on it. (Be careful not to mistake the surface for the back side,)

Procedure 2

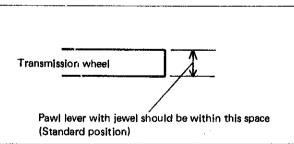
Hold the pawl lever with jewel softly with a finger as shown in the illustration on the right while lifting up one end of the pawl lever with jewel with tweezers lightly to bend it to about the thickness of the pawl lever with jewel to engage it with the transmission wheel,



Procedure 3

Confirm the engagement condition of the pawl lever with jewel and the transmission wheel after putting the ballbearing for oscillating weight and pawl lever with jewel in the barrel and train wheel bridge,

Be careful not to bend the pawl lever with jewel too much or it may touch the barrel and train wheel bridge. If the pawl lever with jewel is bent too much, replace it with a new one.



Procedure 4

Confirm that the cogs of the transmission wheel do not get out of engagement when the oscillating weight is put in and turned around to the right or left.

*Replace the pawl lever with jewel with a new one if it still does not function correctly after the repair.

