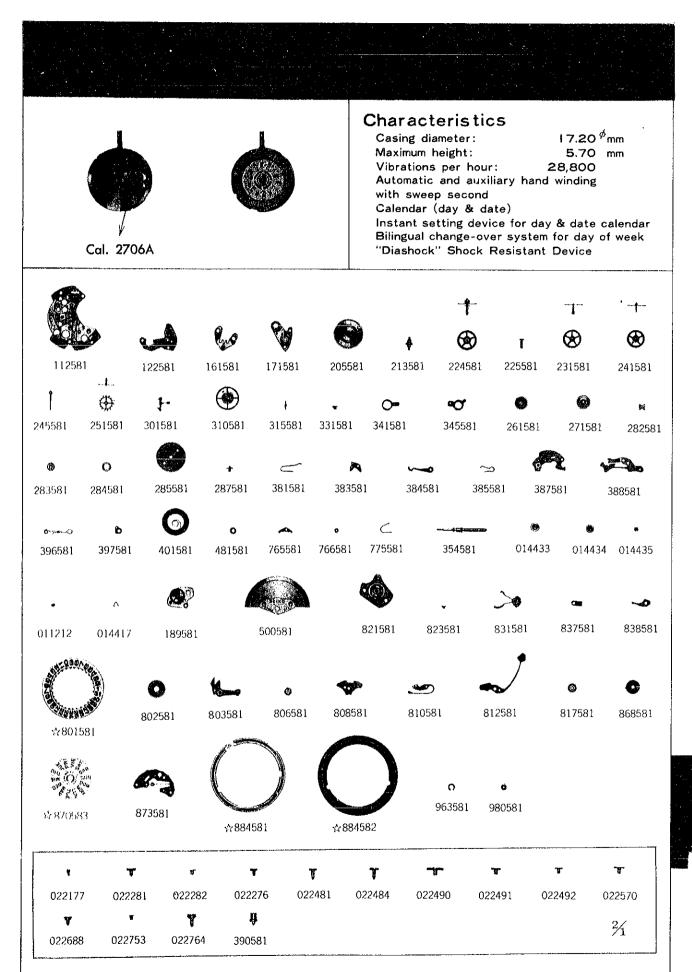
SEIKO



^{☆ ⇔} Please see remarks on the next page.

Catalog No.

Calibre No.		Jewels	Style Name	
	2706A	21 j		
	ZIUUN	211		
PART NO.	LIST OF MATERIALS		PART NO.	LIST OF MATERIALS
PART NO. 112581 122581 161581 171581 189581 205581 213581 224581 224581 225581 231581 245581 245581 251581 261581 271581 282581 283581 284581 285581 287581 315581 315581 315581 315581 331581	LIST OF MATERIAL Barrel & train-wheel bridge Center wheel bridge Pallet cock Balance cock Transmission wheel bridge wheel Complete barrel with arbor Barrel arbor Center wheel & pinion with pinion Cannon pinion Third wheel & pinion Fourth wheel & pinion Sweep second pinion Escape wheel & pinion Minute wheel Hour wheel Ulutch wheel Winding pinion Crown wheel Ratchet wheel Intermediate ratchet wheel Jewelled pallet fork & star Balance complete with stur Balance staff Roller with jewel Regulator Stud holder Winding stem Click Setting lever Yoke (Clutch lever) Yoke spring (Clutch lever Minute wheel bridge with of corrector wheel Setting lever spring Setting lever axle Friction spring for sweep pinion Lever for unlocking stem Mainspring with slipping at Crown wheel ring Intermediate setting lever Intermediate setting lever Intermediate ratchet wheel Diashock upper frame Diashock lower frame Diashock lower frame Diashock cap jewel Diashock spring Oscillating weight	with ff d spring) lay second tachment	PART NO. 810581 812581 817581 868581 ☆870583 873581 ☆884581 ☆884582 963581 980581 022177 022281 022282 022276 022484 022490 022491 022492 022570 022488 022753 022764 011716 01153 011404 011308 011505 011505 011505 011522 011523 023475 023475 023851	Date jumper Setting wheel lever spring Intermediate date wheel Day finger Day star with dial disk (English → Spanish) Day jumper Holding ring for dial Snap for day star with dial disk First intermediate wheel for day-date correction Second intermediate wheel for day-date correction Stud screw Center wheel bridge screw Setting lever spring screw Pallet cock screw Minute wheel bridge screw Transmission wheel bridge screw Bridge screw Setting wheel lever spring screw Screw for oscillating weight Screw for ball-bearing complete Friction spring screw for sweep second pinion Crown wheel screw Date driving wheel screw Date driving wheel screw Date dial guard screw Day jumper screw Dial screw Upper hole jewel for center wheel Lower hole jewel for 3rd wheel Lower hole jewel for 3rd wheel Upper hole jewel for 4th wheel Lower hole jewel for 4th wheel Lower hole jewel for sweep second pinion Upper hole jewel for sweep second pinion Upper hole jewel for scape wheel Lower hole jewel for pallet Lower hole jewel for bearing complete Tube for transmisson wheel bridge screw Intermediate setting lever pin Pawl lever holder pin Date jumper pin
821581 823581 831581 837581 838581 ☆801581	Ball-bearing complete with lever holder Eccentric post Pawl lever with jewel Pawl lever holder Pawl lever seat Date dial	pawl		
802581 803581 806581 808581	Date driving wheel Setting wheel lever comple Date corrector wheel Date dial guard	te		

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

Calibre No.

2706A

Jewels

Style Name

21

Remarks:

Date dial

☆ 801581 (Black figures on white background) ······· Used when both the crown and the date frame are located at 3o'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.

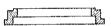
Day star with dial disk

\$\times 870583 (English \Lorsymbol{\top} Spanish) \cdots \quad Used when both the crown and the day frame are located at \$30'clock.

When ordering any other type of the day star with dial disks, clearly mention the number printed on the disk. If the number is unknown, 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

The holding ring for dial comes in different shapes for specific dial models. Select the suitable one by referring to the photos in the front page and the sectional shapes in the following diagram. If the part number of the holding ring for dial is unknown or its shape is different from those in the diagram, specify ① Cal. No. ② the dial No. and ③ the case No. when ordering.





☆ 884581

☆ 884582



SEIKO Calibre No. Style Name lewels 2706A 17 i ⇔Basic Calibre 2706A 21J Catalog No. 27-06-1 Characteristics 17.20[¢] mm Casing diameter: 5.70 mm Maximum height: Vibrations per hour: 28,800 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 Cal. 2706A "Diashock" Shock Resistant Device 171582 112582

Z 27-0 O.

Calibre No.

PART NO.

112582

122581

161581

171582

189581

205581

213581

224581

225581

2706A

LIST OF MATERIALS

Transmission wheel bridge with wheel

Center wheel & pinion with cannon pinion

Barrel & train-wheel bridge

⇒Basic Calibre 2706A 21J Catalog No. 27-06-1

Pallet cock

Barrel arbor

Cannon pinion

Balance cock

Center wheel bridge

Complete barrel with arbor

correction 231581 Third wheel & pinion Fourth wheel & pinion 022177 Stud screw 241581 245581 Sweep second pinion 022276 Minute wheel bridge screw Escape whee! & pinion Transmission wheel bridge screw 251581 022276 Minute wheel Center wheel bridge screw 261581 022281 Hour wheel Setting lever spring screw 271581 022281 282581 Clutch wheel 022282 Pallet cock screw Winding pinion Bridge screw 283581 022481 284581 Crown wheel 022484 Setting wheel lever spring screw Ratchet wheel Screw for oscillating weight 285581 022490 287581 Intermediate ratchet wheel Screw for ball-bearing complete 022491 301581 Jewelled pallet fork & staff 022492 Friction spring screw for sweep second Balance complete with stud pinion 310581 315581 Balance staff 022570 Crown wheet screw Roller with iewel Date driving wheel screw 331581 022688 341581 Regulator 022753 Date dial guard screw Stud holder 345581 022753 Day jumper screw Winding stem 354581 022764 Dial screw Click 381581 011716 Upper hole jewel for center wheel Setting lever 011153 383581 Lower hole jewel for center wheel Yoke (Clutch lever) 384581 011308 Lower hole jewel for 3rd wheel Yoke spring (Clutch lever spring) Upper hole jewel for escape wheel 385581 011522 Minute wheel bridge with day corrector 387581 011522 Lower hole jewel for escape wheel wheel 011522 Upper hole jewel for pallet Setting lever spring 011522 Lower hole jewel for pallet 388581 Setting lever axle 390581 Lower hole jewel for transmission wheel 011151 Friction spring for sweep second pinion Tube for pallet cock screw 396581 023148 Lever for unlocking stem 397581 023188 Tube for screw of ball-bearing complete Catalog 401581 Mainspring with slipping attachment 023191 Tube for transmission wheel bridge screw Crown wheel ring 481581 023472 Intermediate setting lever pin 765581 Intermediate setting lever Pawl lever holder pin 023475 766581 Intermediate minute wheel 023851 Date jumper pin Intermediate ratchet wheel spring *7755*81 Diashock upper frame 014433 014434 Diashock lower frame Diashock hole jewel with frame 014435 Diashock cap jewel 011212 014417 Diashock spring Oscillating weight 500582 Ball-bearing complete with pawl lever holder 821581 823581 Eccentric post Pawl lever with jewel 831581 N 837581 Pawl lever holder Pawl lever seat 838581 ☆801581 Date dial 802581 Date driving wheel 803581 Setting wheel lever complete Date corrector wheel 806581 808581 Date dial guard 810581 Date jumper Setting wheel lever spring 812581 817581 Intermediate date wheel ☆⇒Please see remarks on the next page. Items in light letters are not shown in photos; those parts are interchangeable with the basic calibre

Jewels

17j

Style Name

PART NO.

868581

873581

☆870583

☆884581

☆884582

963581

980581

980581

Day finger

Day jumper

correction

Holding ring for dial

Snap for day star with dial disk

First intermediate wheel for day-date

Second intermediate wheel for day-date

LIST OF MATERIALS

Day star with dial disk (English - Spanish)

(Cal. No. 2706A 21J Catalog No. 27-06-1 Red page).

Calibre No.

2706A

Jewels

17j

Style Name

Basic Calibre 2706A 21J Catalog No. 27-06-1

Remarks:

Date dial

☆801581 (Black figures on white background) ······· Used when both the crown and the date frame are located at 3 o'clock.

If the date dia! is required in any other type, specify ① Cal. No. ② the crown position ③ the date frame position and ① the dial No.

Day star with dial disk

located at 3 o'clock.

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

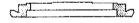
Holding ring for dial

The holding ring for dial comes in different shapes for specific dial models. Select the suitable one by referring to the photos in the page of the basic calibre (Catalog No. 27-06-1) and the sectional shapes—the following diagram.

If the part number of the holding ring for dial is unknown or its shape is different from those in the diagram, specify (1) Cal. No. (2) the dial No. and (3) the case No. when ordering.



☆884581



☆884582

2706A Calendar Mechanism

1) Specifications:

Casing diameter 17.20mm Height 5.70mm Vibrations per hour 28,800

Automatic winding (with hand winding

mechanism)

Calendar (day and date; bilingual changeover mechanism for day indication, instant day and date setting device)

2) Features:

This is a lady's wrist watch with a variety of functions. Up to now, it was considered difficult to provide a lady's wrist watch with various functions due to its small size, however, calibre 2706 has proved this concept to be erroneous.

Stabilized movement:

A lever system is adopted for the automatic winding mechanism. Precision is sufficiently stabilized by a high beat (8 beat); further, auxiliary hand winding mechanism is provided.

Easy-to-use day and date correction:

Day-date correction is simply operated by turning a crown to the right or left after pulling out the crown to the second click. And at the same time, either one of the two languages provided can be chosen to indicate the day of the week.

Easy-to-see calendar:

Letters indicating the day and date are large enough to ensure quick, easy reading.

3: Disassembly and assembly:

Disassemble the watch in the order of Figs. (1)-(70)

Assemble by reversing the above order: Figs. (70, -(1))

4) Lubrication: -

Colored symbols in the illustrated figures indicate the types of oil, the quantity to be applied, and the lubricating points.

Types of oil:

- ► Moebius Synt-A-Lube
- Seiko watch oil S-4
- Seiko watch oil S-3

Oil quantity:

- Extremely small quantity
- Normal quantity
- Sufficient quantity

As lubricating points other than portions marked with the above symbols are separately indicated, lubricate correctly.

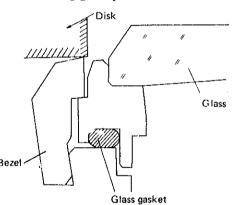
Oil must not be applied.





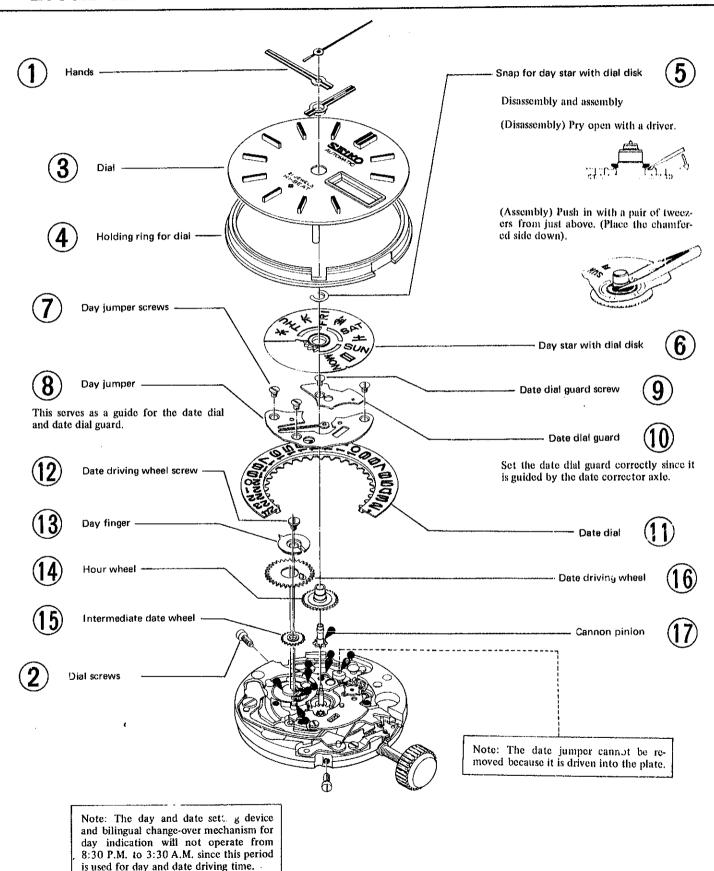
An example of casing construction

There is a model whose construction has the following glass portion.

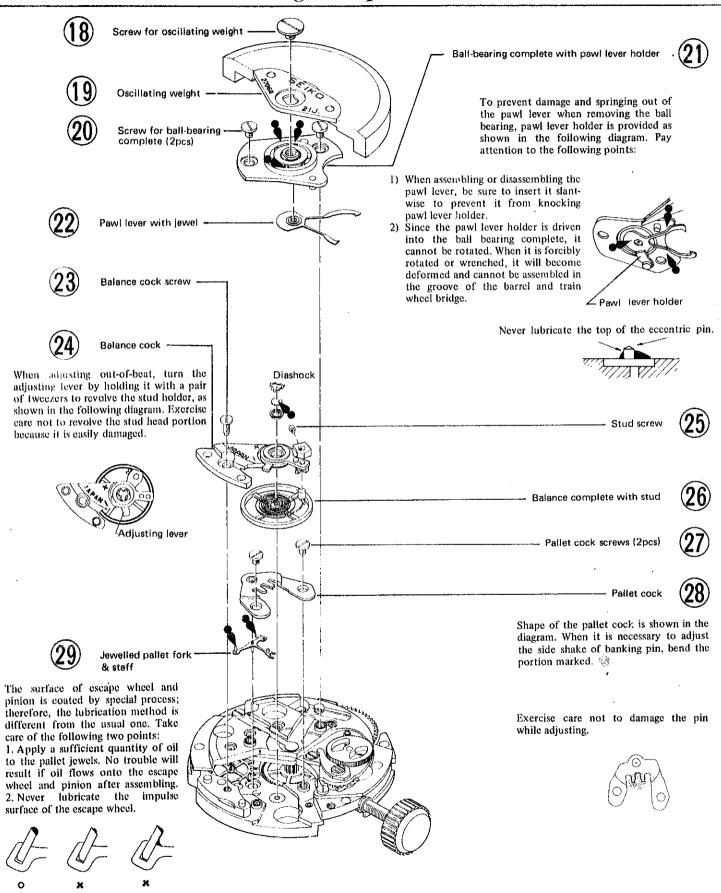


Precautions when assembling

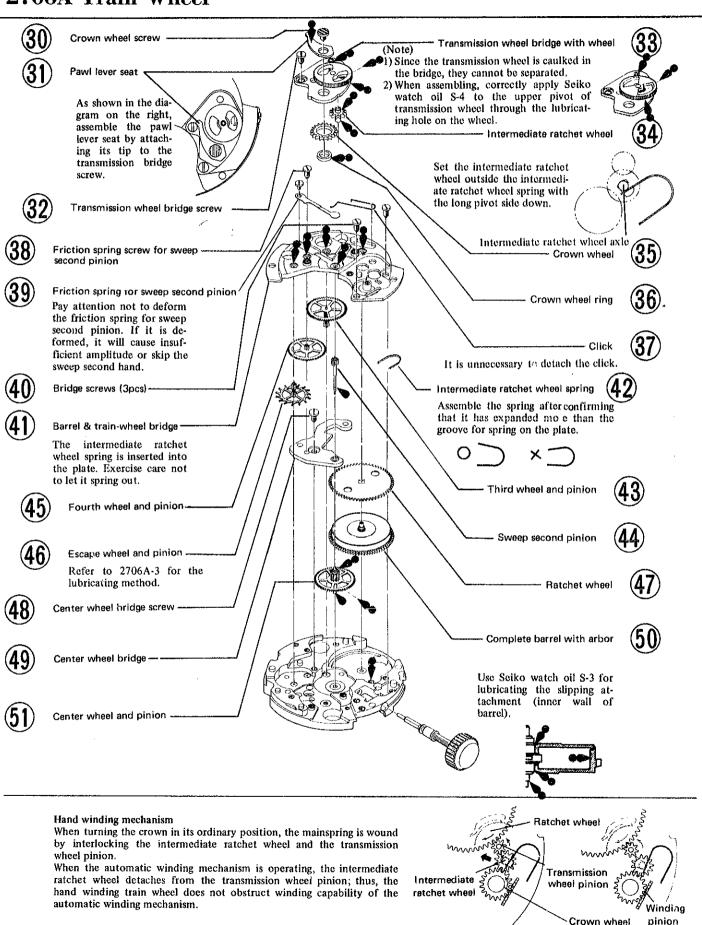
- (1) Insert a gasket into the gasket groove and set the bezel; then push the bezel in
- (2) Use a disk which does not contact the glass ring when pushing in the bezel by the disk.
- (3) Set the pry opening port on the bezel to its original position.
- (4) It is unnecessary to apply silicone grease to the glass gasket.



2706A Automatic Winding, Escapement and Governor Mechanism



2706A Train Wheel



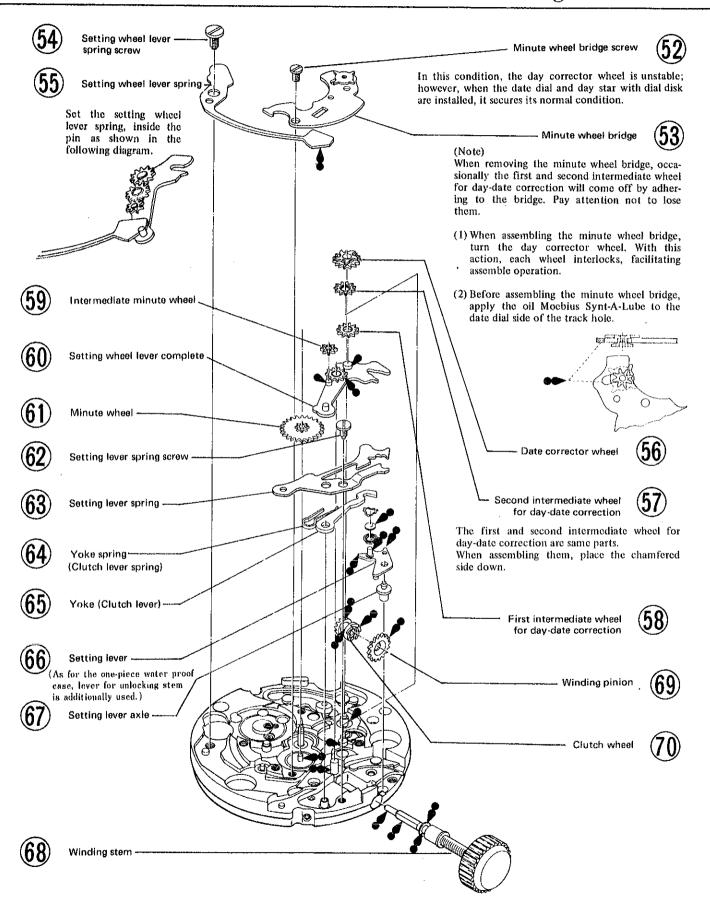
a) Operation of hand

winding mechanism

b) Operation of automatic

winding mechanism

2706A Setting Mechanism

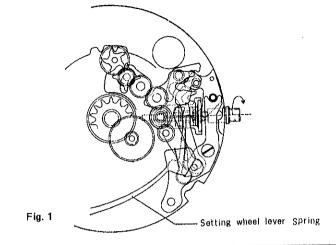


2706A Setting Mechanism

Crown ordinary position (mainspring winding)

The mainspring can be wound by turning the crown at the position where the winding pinion and clutch wheel interlock.

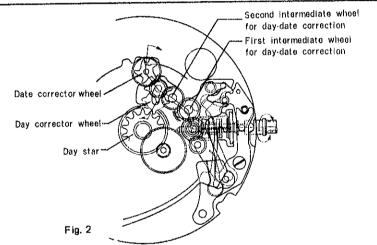
Fig.



Position where the crown is pulled out to the second click (setting day and date)

In the condition where the clutch wheel and setting wheel (located under the setting transmission wheel, it rotates together with setting transmission wheel) interlock, when the crown is turned clockwise the day star with dial disk is quickly forwarded.

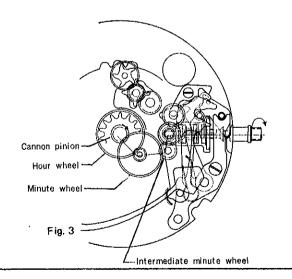
Day corrector Day corrector clockwise), the date dial is quickly forwarded.



Position where the crown is pulled out to the third click (setting time)

The intermediate minute wheel interlocks with the minute wheel as a result of the setting wheel lever complete being pushed by the setting lever. When the crown is turned at this position, the hands can be set.

Fig. 3



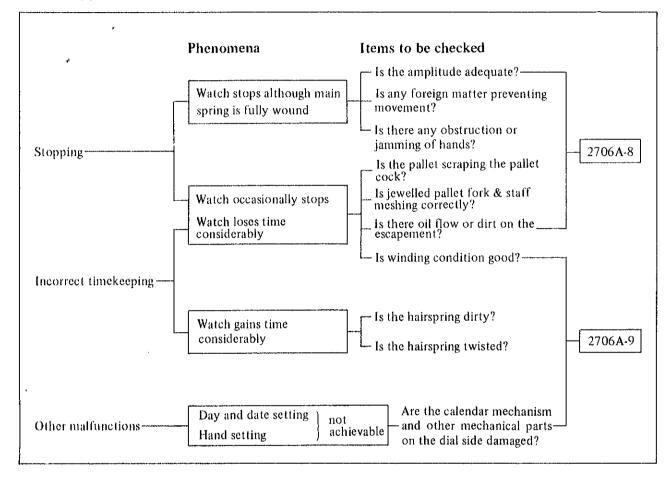
2706A CHECKING AND REPAIRING-1

Phenomena	Items to be checked	Repairing Method
1. Watch stops although mainspring is fully wound.	1. Is the amplitude adequate? Pallet tip Small flange	Adjust height of the pallet tip. When moving the pallet tip up and down in examining it and small flange, never detach the tip and small flange. Surface of small flange Surface of pallet tip
2. Watch occasionally stops.	2. Any slip on the jewel meshing? (1) With the first stopping does the meshing directly drop on the impact surface? (2) Check each tooth of the escape wheel	Adjust hole jewel position of the pallet cock. Standardize surface of the pallet cock Always check shakes of the pallet after adjustment. Adjust meshing amount of the jewel. When adjusting one side, always confirm meshing amount of both sides. (First stop)
Watch loses considerably.	3. Is there any oil flow or dirt on the escapement? (1) Check for dirt on banking portion of the pallet cock and tip of the pallet (2) Check for oil flow on the pallet Oil flows over entire pallet (3) Check for dirt on roller jewel of the balance	* Wash the pallet and pallet cock. After washing pallet finger tip, pin portion of pallet tip, and banking portion of pallet cock with a brush, rinse them in benzine. Dry them thoroughly. * After washing and assembling pallet and pallet cock, lubricate the jewel by using an oiling bar or glass oiling injector. * Lubrication of Entry pallet jewel * Washing of the balance Wipe the roller jewel well, then rinse it in benzine. Dry it well, (When washing, remove the shock resistant hole jewel with frame).

2706A CHECKING AND REPAIRING

When a customer requests that a watch be repaired, the first prerequisite is to inquire on the exact nature of the malfunction,

With the information obtained from the customer, check thoroughly (making repairs where necessary) the following points:



2706A CHECKING AND REPAIRING-2

Phenomena	Items to be checked	Repairing Method
	 4. Is winding condition of the oscillating weight good? The condition is good when the transmission wheel turns round once within 30 revolutions of the oscillating weight. When the winding condition is defective (1) Check on whether the pawl lever with jewel is bent upward or downward. If bent, winding efficiency is lowered as it scratches the transmission wheel bridge. 	(1) Correct warp of the pawl lever with jewel (2) Correctly reassemble the transmission wheel bridge
	(2) Check on whether the shake of fingers are reduced by a raised transmission wheel bridge. Ball bearing Pawl lever with jewel	Shake
	Transmission wheel bridge Transmission wheel (3) Check on whether distance between fingers of the pawl lever with jewel is extended and the finger tip is separated from the transmission wheel when winding.	(3) Correct distance between fingers. A = Within double the finger thickness. Adjust with care that distance does not become too narrow.
	Any portion stuck together due to dirt?	Wash the balance. Rinse the balance in fresh benzine and dry it well to prevent the balance coils from touching each other. (When washing, remove shock resistant hole jewel with frame). Refer to next page for details.
3. Watch gains considerably —	2. Is the hairspring twisted? Is the hairspring locked between the regulator key and the stud? Locked hairspring	After removing the hair spring from twisting, correct bend of the hairspring stud. After correcting, check shape of the hairspring.
4. Day and date correction————————————————————————————————————	I. Are the calendar mechanism and other mechanical parts on the dial side damaged? Cracks and loosened setting wheel, first and second intermediate wheel for day-date correction; broken and detached date pin; and broken teeth of clutch wheel. Second intermediate wheel for day-date correction. First intermediate wheel for day-date correction. Setting wheel	Replace parts. Day and date change starts from about 8:30 P.M. and finishes about 3:30 A.M. When day and date are corrected within this period, the correcting device will not function; also, it may be damaged, so never correct the day and date during this period. Explain clearly to the customer that he should never do the correcting during this period.

2706A CHECKING AND REPAIRING-3

1. Washing and Lublicating Method for Pallet, Pallet Cock, and Balance

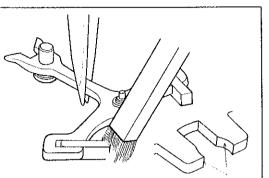
(i) Washing method for pallet and pallet cock

1. Rough washing

Since the pallet has been subjected to a nondiffusion treatment at the factory, ultrasonic washing should be limited to within one minute. When using a brush for washing, only wash the pallet finger tip, pin portion of the pallet tip, and banking portion of the pallet cock.

2. Rinsing and drying

Rinse the pallet and the pallet cock in fresh benzine, and dry them well by using a dryer or other means. Drying temperature should be less than 40°C.



(2) Lubricating jewel

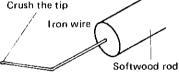
When lubricating the pallet jewel, do so after assembling the pallet and the pallet cock. Using a glass oiling injector or oiling bar, sufficiently lubricate the entry pallet jewel and the exit pallet jewel after allowing the tooth tip of the escape wheel to escape. No problem exists when oil is diffused on the escape wheel.



Lubricating the entry



Lubricating the exit



It is convenient to make this tool yourself.

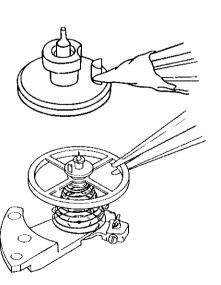
Note: Since the oil quantity cannot be controlled never lubricate the escape wheel directly. (due to special treatment of surface)

(3) Washing the balance

1. Rough washing

(The balance can be washed with the balance cock attached; however, remove the shock resistant hole jewel with frame.)

Perform ultrasonic washing for one minute. When wiping the balance, wipe and wash the roller jewel thoroughly.



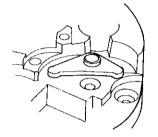
2. Rinsing and drying

Rinse the balance in fresh benzine and slightly raise the balance with a pair of tweezers to prevent contact with the hairspring; then dry well, using a dryer or other means.

2. Regarding Modification of Parts

(1) Intermediate setting lever

The Intermediate setting lever, conventionally driven in the plate informer models, has been changed to the assembling type.







Front surface

Froat surface is grooved. Do not mistake the front surface when assembling.

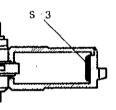
(2) Color of barrel cover

To clearly indicate use of SEIKO Watch Oil S-3, the barrel cover has been colored black.









This implies the same meaning as the black ring mark on other watch types.

(3) Day jumper

