

Cal. 7019A

Characteristics

Casing diameter: 27.00 φmm
 Maximum height: 4.85 mm
 Vibrations per hour: 21,600
 Automatic winding with sweep second
 Calendar (day & date)
 Instant setting device for day & date calendar
 Bilingual change-over system for day of week
 "Diashock" Shock Resistant Device
 "Diafix" Oil Lubrication Device

112021

224007

225005

231007

241010

251013

271007

383005

384007

436001

015541

015551

011221

014417

☆ 354020

☆ 354022

☆ 357003

☆ 998003

☆ 999003

☆ 801008

☆ 801010

802005

808005

719001

720001

720002

868003

☆ 870011

☆ 870014

873004

963001

☆ 884005

☆ 884008

☆ 884009

☆ 884013

012277

012354

012424

2/1

Calibre No.	7019A	Jewels	21j	Style Name
⇒ Basic Calibre 7005A 17J Catalog No. 70-05-1				
PART NO.	LIST OF MATERIALS	PART NO.	LIST OF MATERIALS	
112021	Barrel & train-wheel bridge	☆ 870011	Day star with dial disk	
122004	Center wheel bridge	☆ 870014	Day jumper	
161004	Pallet cock	873004	Snap for day star with dial disk	
171022	Balance cock	963001		
201024	Complete barrel with arbor & mainspring	☆ 884005	Holding ring for dial	
224007	Center wheel & pinion with cannon pinion	☆ 884008		
		☆ 884009		
		☆ 884013		
225005	Cannon pinion	012123	Stud screw	
231007	Third wheel & pinion	012277	Lower end-piece screw for 3rd & escape wheel	
241010	Sweep second wheel & pinion	012354	Date driving wheel screw	
251013	Escape wheel & pinion	012354	Date dial guard screw	
261006	Minute wheel	012354	Day corrector screw	
271007	Hour wheel	012415	Bridge screw	
282003	Clutch wheel	012417	Pallet cock screw	
285013	Ratchet wheel	012419	Casing clamp screw	
301009	Jewelled pallet fork & staff	012424	Center wheel bridge screw	
310020	Balance complete with stud	012424	Setting lever spring screw	
315008	Balance staff	012424	Screw for day corrector spring (B)	
331005	Roller with jewel	012539	Second reduction wheel screw	
341007	Regulator	012736	Day jumper screw	
345007	Stud holder	012919	Ratchet wheel screw	
☆ 354020	Winding stem	011715	Upper hole jewel for center wheel	
☆ 354022		011146	Lower hole jewel for center wheel	
☆ 357003	Click	011651	Lower hole jewel for 3rd wheel	
381004		011611	Lower hole jewel for center wheel	
383005	Setting lever	011505	Upper hole jewel for pallet	
384007	Yoke (Clutch lever)	011505	Lower hole jewel for pallet	
388003	Setting lever spring	011162	Upper hole jewel for 1st reduction wheel	
☆ 397003	Lever for unlocking stem	011151	Lower hole jewel for 1st reduction wheel	
399006	Casing clamp	013009	Tube for bridge screw	
436001	Lower end-piece for 3rd & escape wheel	013011	Tube for day corrector screw	
☆ 998003	Indicator wheel	013186	Tube for pallet cock screw (long)	
☆ 999003	Indicator wheel spring	013197	Tube for 2nd reduction wheel screw	
014293	Diashock upper frame	013198	Tube for pallet cock screw (short)	
014294	Diashock lower frame	013199	Tube for date driving wheel screw	
014295	Diashock hole jewel with frame	013975	Eccentric dial pin	
011220	Diashock cap jewel			
014217	Diashock spring			
015541	Diafix upper hole jewel with frame for 3rd wheel			
015551	Diafix upper hole jewel with frame for escape wheel			
011221	Diafix cap jewel			
014417	Diafix spring			
509004	Oscillating weight with ball-bearing			
511002	First reduction wheel			
514002	Second reduction wheel			
828002	Oscillating weight arbor			
831001	Pawl lever			
836002	First reduction wheel holder			
556004	Date finger			
☆ 801008	Date dial			
☆ 801010				
802005	Date driving wheel			
808005	Date dial guard			
810002	Date jumper			
817004	Intermediate date wheel			
719001	Day corrector			
720001	Day corrector spring (A)			
720002	Day corrector spring (B)			
868003	Day finger			

☆ ⇒ Please see remarks on the next page.

Items in light letters are not shown in photos; those parts are interchangeable with the basic calibre

(Cal. No. 7005A 17J Catalog No. 70-05-1 Green page).

☆ ⇒ Please see remarks on the next page.

As for all other parts not shown here, please refer to the basic calibre

(Cal. No. 7005A 17J Catalog No. 70-05-1 Green page).

Calibre No. **7019A**
⇒ Basic Calibre 7005A 17J Catalog No. 70-05-1

Jewels
21 j

Style Name

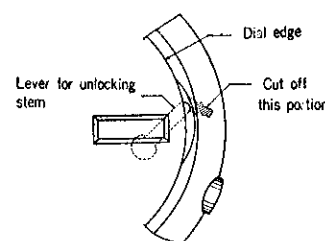
Remarks:

Winding stem ————— Refer to the shapes of the photographs on the front page. —————

- ☆ 354020 **Long** winding stem (Thread is provided only on the end of the crown portion.)
- ☆ 354022 **Short** winding stem (Thread is provided completely from the end of the crown portion to the knot which functions as a stopper for the crown.)
- ☆ 357003 Used only for the models with rotating dial ring.

Lever for unlocking stem

- ☆ 397003 Used for the one-piece or square type waterproof case.
Adjust the tail length of the lever for unlocking stem by cutting the tail may not touch the case and project over the dial for pushing the lever (Refer to the diagram on the right).



Indicator wheel (☆ 998003) } Used only for the models with
Indicator wheel spring (☆ 999003) } rotating dial ring.

Date dial

- ☆ 801008 (Black figures on white background) } Used when the crown is located at **4 o'clock** and
 - ☆ 801010 (White figures on black background) } the date frame at **3 o'clock**.
- If the date dial is required in any other type, specify ① Cal. No. ② the crown position ③ the date frame position and ④ the dial No.

Day star with dial disk

- ☆ 870011 English ↔ Japanese, Black figures on white background
 - ☆ 870014 English ↔ Japanese, White figures on black background
- These day star with dial disks are used when the crown is located at **4 o'clock** and the day frame at **3 o'clock**.
If the day star with dial disk is required in any other type, specify the number printed on the disk.

Holding ring for dial ————— There are four types of holding ring for dial. Select the suitable one by the following procedures after referring to the sectional shapes in the lower diagram. —————

- ☆ 884005 (Refer to fig. 1) Used only for the one-piece waterproof case.
- ☆ 884008 (Refer to fig. 2) Used for the screw back or snap back waterproof case with the dial of 27.50mm ~ 28.50 ϕ mm external diameter.
- ☆ 884009 (Refer to fig. 2) Used for the screw back or snap back waterproof case with the dial of 29.50mm ~ 30.50 ϕ mm external diameter.
- ☆ 884013 (Refer to fig. 3) Used only for models with rotating dial ring.

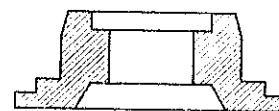
If the parts number of the holding ring for dial is unknown or when ordering a holding ring for dial other than the above-mentioned ones, specify ① Cal. No. ② the dial No. and ③ the case No.



(Fig. 1)



(fig. 2)



(fig. 3)

1) Specifications

Casing diameter	27.00mm
Height	4.85mm
Vibrations per hour	21,600
Automatic winding	
Calendar (Day and date, Bilingual change-over mechanism for day indication; crown revolving system date correction; push-type day correction)	

2) Features

Bilingual change-over mechanism for day indication and push-type day correcting device are newly added to the basic caliber 7005A. The conventional diafix spring has a diashock-type-spring, which is easily handled and also has stability.

3) Disassembling, Reassembling

Disassemble the watch according to Fig. (1) to (57). For disassembling from (25) to (49), refer to procedures from (15) to (39) of 7005A.

Difference of the train wheel between 7019A and 7005A.

7019A uses Diafix on the third wheel and pinion and the escape wheel and pinion.

4) Lubrication

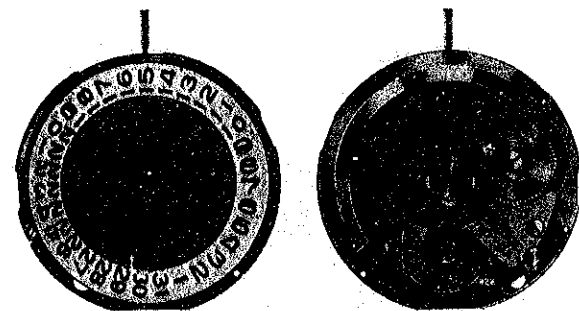
Colored symbols printed on the figures indicate the types of oil, quantities to be applied, and lubrication points.

Types of oil	Quantity
Moebius Synt-A-Lube	● Sufficient quantity
Seiko watch oil S-4	● Normal quantity
	● Extremely small quantity

5) Precautions on Handling the Watch

Refer to 7005A for lubricating the date correcting, the hand setting, the assembling of the oscillating weight, the automatic winding mechanism and the train wheel, and so forth.

- Crown: Normal position — Free condition (Fig. 1)
 First click — Date correction (revolving system) (Fig. 2)
 Second click — Hand setting (Fig. 3)
 Pushing — Tip of setting lever revolves the day corrector, forwarding teeth of the day star one by one (Fig. 4)



Movement

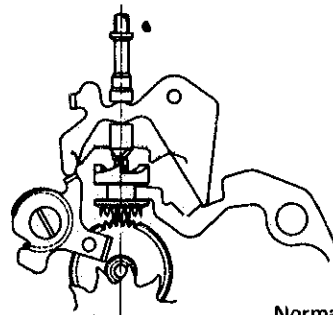


Fig. 1

Normal position

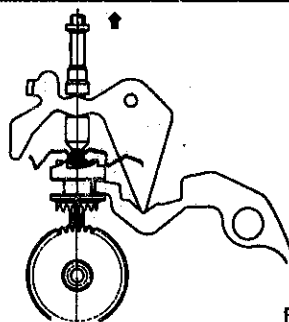


Fig. 2

First click

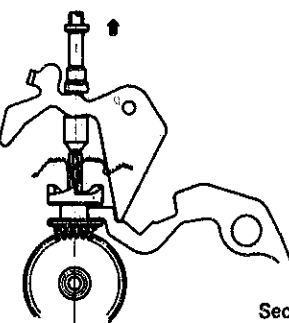


Fig. 3

Second click

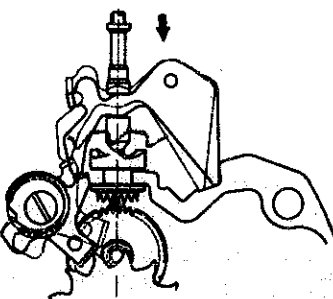


Fig. 4

Pushing

Note:

After setting the hour, minute, and second hands, check on possible rubbing of each hand.

Note:

After setting the snap for day star with dial disk, check on conditions of day and date corrections and the day forwarding condition.

10 Date dial guard screws (2 pcs)

8 Date driving wheel screw

9 Day finger

11 Date dial guard

12 Date dial

13 Date jumper

14 Hour wheel

15 Date finger

16 Intermediate date wheel

17 Date driving wheel

18 Day corrector spring screw

19 Day corrector spring (B)

Note:
Assembling order of the day corrector spring (B) is (1), (2), and (3).

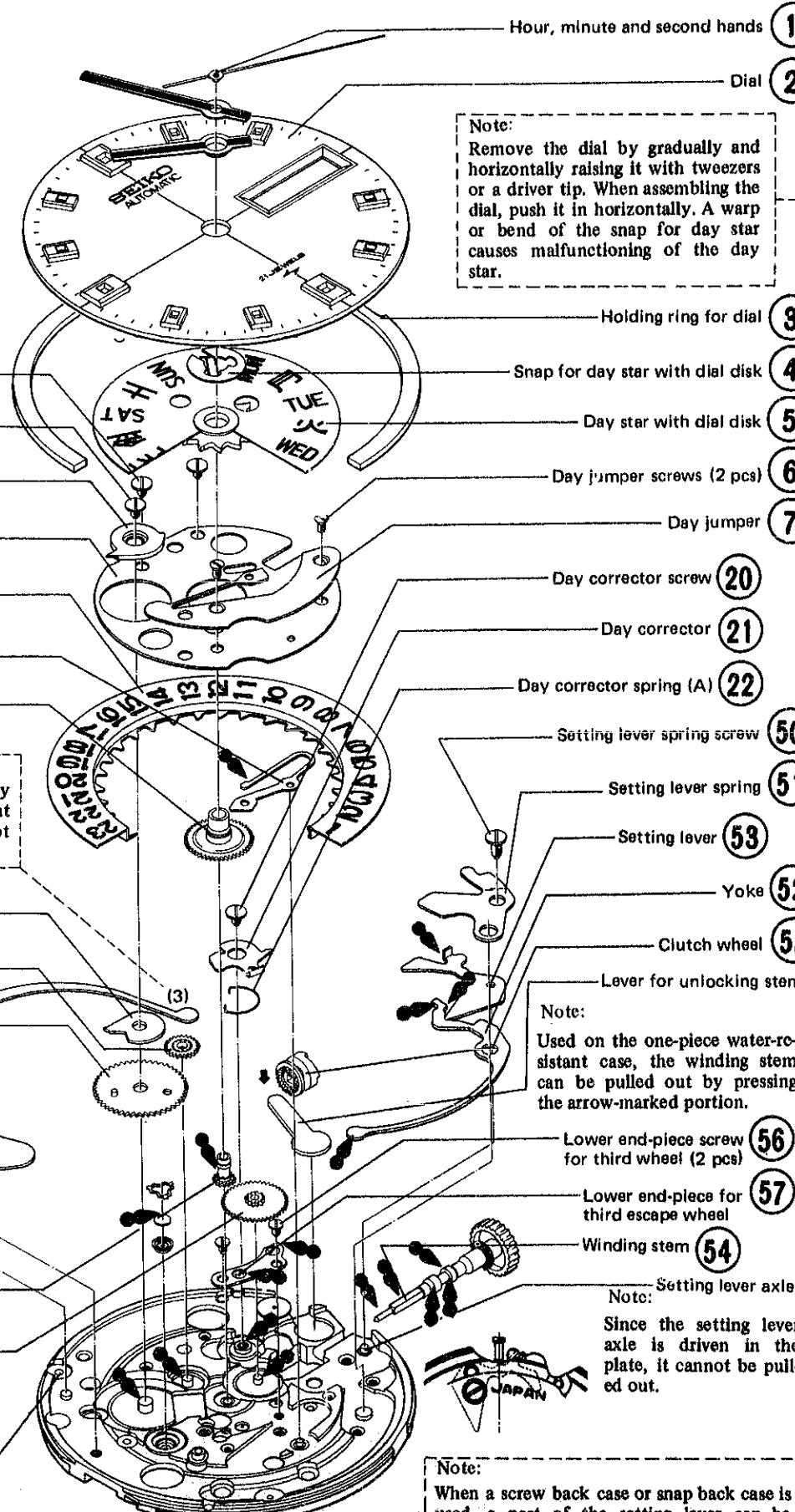
24 Cannon pinion

23 Minute wheel

Eccentric dial pin

Note:

When assembling or disassembling the dial, turn the eccentric dial pin 90°-150°.



Note:
Remove the dial by gradually and horizontally raising it with tweezers or a driver tip. When assembling the dial, push it in horizontally. A warp or bend of the snap for day star causes malfunctioning of the day star.

Note:
Be careful not to apply excessive force so that the spring should not become worn.

Note:
Used on the one-piece water-resistant case, the winding stem can be pulled out by pressing the arrow-marked portion.

Note:
Since the setting lever axle is driven in the plate, it cannot be pulled out.

Note:
When a screw back case or snap back case is used, a part of the setting lever can be observed at the second click of the crown. Pull out the winding stem by pressing this portion.