

#### Seiko 4S15A Movement Parts (1)

Compiled by EmmyWatch - https://www.emmywatch.com

# PARTS CATALOGUE/TECHNICAL GUIDE Cal. 4S15A

[SPECIFICATIONS]

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Cal. No.		4S15A	
Item			
Movement			
	EMN		
	VINIAC	IE RESIORA MIS	
	Outside diameter	ø26.0 mm	
Movement size	Casing diameter	ø25.6 mm	
2 2 2 2	Height	4.17 mm	
Time indication		Three hands (Hour, minute and second hands)	
Vibrations per ho	our	28,800 (8 beats per second)	
Additional mechanism		<ul> <li>Automatic winding (with auxiliary hand winding mechanism)</li> <li>Date calendar</li> </ul>	
		Second setting device	
		Micro-regulating device	
		<ul> <li>Regulating device by micro-positioning regulator pin</li> </ul>	
Jewels		25 jewels	

# SEIKO CORPORATION





#### Cal. 4S15A





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#### • List of screws

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Part No.	Namø	Part No.	Name
	Stud screw		Click screw
012 121	<ul> <li>Screw for barrel and train wheel bridge</li> <li>Balance cock screw</li> </ul>		Screw for friction spring for second wheel pinion
012 284	<ul> <li>Center wheel bridge screw</li> </ul>	012 673	Casing clamp screw
012 285	Pallet cock screw	012 726	
	• Setting lever spring screw AGE RE		Screw for framework for automatic device
	Rachet wheel screw	012 744	Date dial guard screw (A)
	<u> </u>		<ul> <li>Date dial guard screw (B)</li> <li>Date jumper guard screw</li> </ul>
		012 820	

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#### • List of jewels

Part No.	Name	Part No.	Name
011 221	Diashock upper/lower cap jewel	011 540	Upper/lower hole jewel for third     wheel and pinion
<ul> <li>Diafix upper cap jewel for fourth wheel and pinion</li> <li>Diafix upper/lower cap jewel for escape wheel and pinion</li> </ul>	011 584	<ul> <li>Lower hole jewel for fourth wheel and pinion</li> </ul>	
	<ul> <li>Diafix upper/lower cap jewel for escape wheel and pinion</li> </ul>	011 505	<ul> <li>Upper/lower hole jewel for jewelled pallet fork and staff</li> </ul>
011 398	<ul> <li>Upper hole jewel for complete barrel with mainspring</li> </ul>	011 151	Upper/lower hole jewel for first reduction wheel and pinion
011 715	<ul> <li>Upper hole jewel for center wheel and pinion</li> </ul>	011 422	Upper hole jewel for differential wheel and pinion
011 146	<ul> <li>Lower hole jewel for center wheel and pinion</li> </ul>	011 157	<ul> <li>Lower hole jewel for differential wheel and pinion</li> </ul>

#### • List of tubes and pins

Part No.	Name	Part No.	Name
013 026	Tube for date corrector wheel     rocker	032 127	Tube for setting lever spring
013 934	Micro adjuster pin	032 132	Tube for casing clamp
013 975	• Dial leg pin		

#### • Other parts

Part No.	Name	Part No.	Name
315 021	Balance staff	014 317	Diashock upper/lower spring
331 005	Roller with jewel	014 417	Diafix upper spring for fourth wheel     and pinion
341 016	Regulator		<ul> <li>Diafix upper spring for escape wheel and pinion</li> </ul>
344 080	Regulator pointer	014 634	Diashock lower frame
345 010	Stud holder	015 513	Diafix lower spring for escape wheel and pinion
399 007	Casing clamp	015 551	Diafix upper hole jewel with frame for fourth wheel and pinion
468 003	Lower hole jewel with frame for jewelled pallet fork and staff	015 161	Diafix upper hole jewel with frame for escape wheel and pinion
014 603	Diashock upper frame	015 531	Diafix lower hole jewel with frame for escape wheel and pinion
014 605	Diashock upper/lower hole jewel     with frame		

- (7) Framework for automatic device
- (20) Hour wheel
- (39) Second wheel pinion
- (48) Center wheel and pinion

#### • Discrimination of the hand installation height

Cal. 4S15A watches have numerals printed on the dial and movement to indicate the hand installation height. When repairing, refer to the table below.

	Height	Standard type	Standard type	
Discrimination	Numeral for discrimination	2	2	
Printed on		Dial	Movement	
		Ex.) Standard type	Ex.) Standard type	
Printed	position			
		The numeral is printed at the right end.	The numeral is printed on the movement.	
		NY VV A		

Numeral for discrimination	Framework for automatic device	Center wheel and pinion with cannon pinion	Second wheel pinion	Hour wheel
0				ci1
	191 015	224 035	245 015	271 310
1				
	191 016	224 034	245 014	271 306
2				(1
	191 017	224 036	245 016	271 311

#### (4) Holding ring for dial

The type of holding ring for dial is determined based on the design of cases. Check the case number and refer to "SEIKO Casing Parts Catalogue" to choose a corresponding holding ring for dial.

#### (12) Date dial

The type of date dial is determined based on the design of cases. Check the case number and refer to "SEIKO Casing Parts Catalogue" to choose a corresponding date dial.

### TECHNICAL GUIDE

Cal. 4S15A

Cal. 4S15A

• The explanation here is only for the particular points of Cal. 4S15A.

#### I. REMARKS ON DISASSEMBLING AND REASSEMBLING

(5) Oscillating weight with ball bearing

#### How to remove and install

A screwdriver having a tip as shown in the illustration below is convenient for removing or installing the oscillating weight with ball bearing.



(9) First reduction wheel and pinion

#### • How to remove

Before removing the first reduction wheel and pinion, be sure to unwind the mainspring. To do so, move the click in the direction of the arrow with tweezers as shown in the illustration below while turning the crown gently counterclockwise. If the click is moved without turning the crown counterclockwise, the mainspring will be unwound forcibly all at once and may cause the mainspring to be damaged.





#### (15) Date driving wheel

#### • How to install

Set the date finger and date driving wheel as shown in the illustration below.



(18) Date corrector wheel rocker

#### Lubricating

After lubricating the portion indicated in the illustration below give the wheel gear of the date corrector wheel rocker 3 or 4 full turns so that the oil reaches every part of the gear shaft.



(21) Minute wheel bridge

#### • Lubricating

Lubricate the crown wheel of the minute wheel bridge at the portion indicated in the illustration below.



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#### Lubricating

Lubricate the jewelled pallet fork and staff at the portion indicated in the illustration below. When doing so, do not apply more oil than required or apply it to any other portion than specified, lest the oil should drip.





(39) Second wheel pinion

#### • Lubricating

Lubricate the upper portion of the second wheel pinion as shown in the illustration below.







#### Second setting device

When the crown is pulled out to the second click, the pin at the end of the train wheel setting lever presses down the balance complete with stud, thus stopping the hands.



#### Regulating device by micro-positioning regulator pin

The accuracy of the watch can be adjusted by moving the lever attached to the regulator device as shown in the illustration to extend or reduce the clearance between the regulator key and regulator pin. After replacing the balance complete with stud, be sure to adjust the accuracy using the lever. Except in such a case, however, do not move the lever, as the accuracy of the watch has been adjusted at the factory before shipment.



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