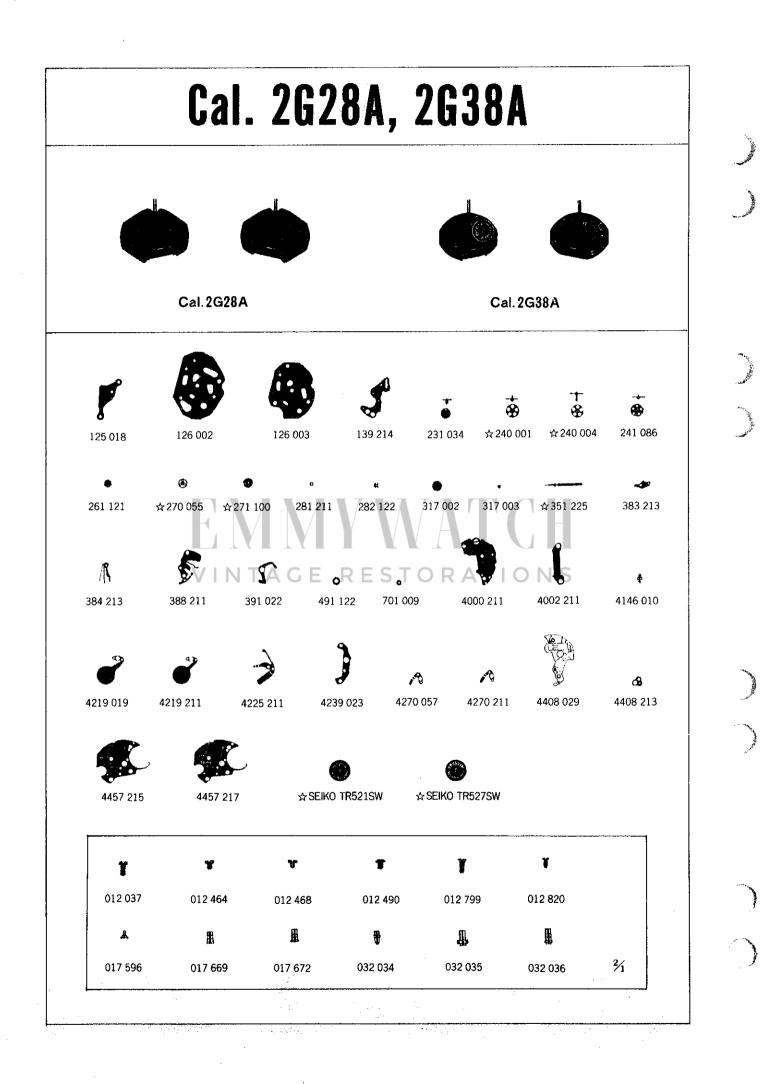


## Seiko 2G28A,2G38A Movement Parts (1)

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





# Cal. 2G28A, 2G38A

	2G28A	2G38A
Casing diameter :	i 7.8 mm	<b>5</b> .   mm
Maximum height :	3.0 mm	2.9 mm
Jewels :	2	]
Frequency of quartz crystal osci	llator : 32,768 Hz (Hz=Hertz	Cycles per second)
Driving system :	Step moto	r (2 poles)
Regulation system :	Trimmer o	ondenser

PART NO.	PART NAME	PART NO.	PART NAME
125 018	Train wheel bridge	4408 213	Setting lever spring spacer
126 002	Additional train wheel bridge (Cal.2G28A)	4457 215	Circuit block cover (Cal.2G28A)
126 003	Additional train wheel bridge (Cal.2G38A)	4457 217	Circuit block cover (Cal.2G38A)
139 214	Lower bridge for third wheel	011 334	Upper hole jewel for step rotor
231 034	Third wheel & pinion	011 562	Lower hole jewel for step rotor
☆240 001	Small second wheel (Cai.2G28A)	012 037	Battery clamp screw
☆240 002	Small second wheel (Cal.2G28A)	012 464	Screw for lower bridge for third whee
☆240 003	Small second wheel (Cal.2G28A)	012 468	Screw for additional train wheel
☆240 004	Small second wheel (Cai.2G38A)		bridge (A)
☆240 005	Small second wheel (Cal.2G38A)	012 490	Screw for additional train wheel
☆240 006	Small second wheel (Cal.2G38A)		bridge (B)
241 086	Fourth wheel & pinion	012 490	Train wheel bridge screw Coil block screw
261 121	Minute wheel	14 * * 1	Circuit block screw
☆270 055		012799	Setting lever spring screw
☆270 060 }	Center minute wheel A G E R E	017 596	Minute wheel pin
☆270 061		017 669	Tube for coil block
☆ <b>271 100</b> ☆271 101		017 672	Tube for circuit block (B)
	Hour wheel	032 034	Tube for train wheel bridge (A)
☆271 102   ☆271 103		032 035	Tube for train wheel bridge (B)
281 211	Setting wheel	032 036	Tube for circuit block (A)
282 122	Clutch wheel	☆ SEIKO TR521SW	Silver (II) oxide battery (Cal.2G38A)
317 002	Intermediate small second wheel	SEIKO TR\$27SW	Silver (II) oxide battery (Cal.2G28A)
	(Cal.2G28A)	Argell SR527SW	Silver oxide battery (Cal.2G28A)
317 003	Intermediate small second wheel	SONY EVEREADY 319	Silver oxide battery (Cal.2G20A)
	(Cal.2G38A)		
☆351 079	Winding stem (Cal.2G28A)		
☆351 100	Winding stem (Cal.2G28A)		
☆351 225)	-		
☆351 226	Winding stem		
☆351 227			
383 213	Setting lever		
384 213	Yoke		
388 211	Setting lever spring		
391 022	Train wheel setting lever		
491 122	Dial washer		
701 009	Fifth wheel & pinion		
4000 211	Circuit block		
4002 211	Coil block		
4146 010	Step rotor		
4219 019	Battery connection insulator (Cal.2G28A)		
4219 211	Battery connection insulator (Cal.2G38A)		
4225 211	Battery clamp		
4239 023	Rotor stator		
4270 057	Battery connection (—) (Cal.2G28A) Battery connection (—) (Cal.2G38A)		
4270 211	Circuit block spacer		
4408 029	GITCUIT DIOCK SDACOF	13	r i i i i i i i i i i i i i i i i i i i

 $\bigstar \bowtie \mathsf{Please}$  see remarks on the reverse page.

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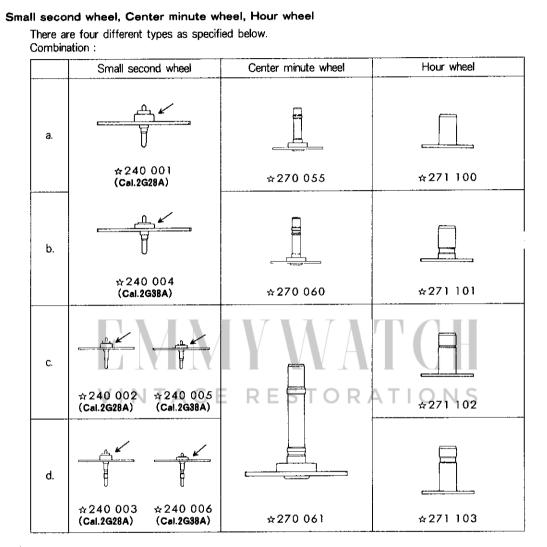
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(

Part numbers in light letters are not shown in photos.

# Cal. 2G28A, 2G38A

## **Remarks** :



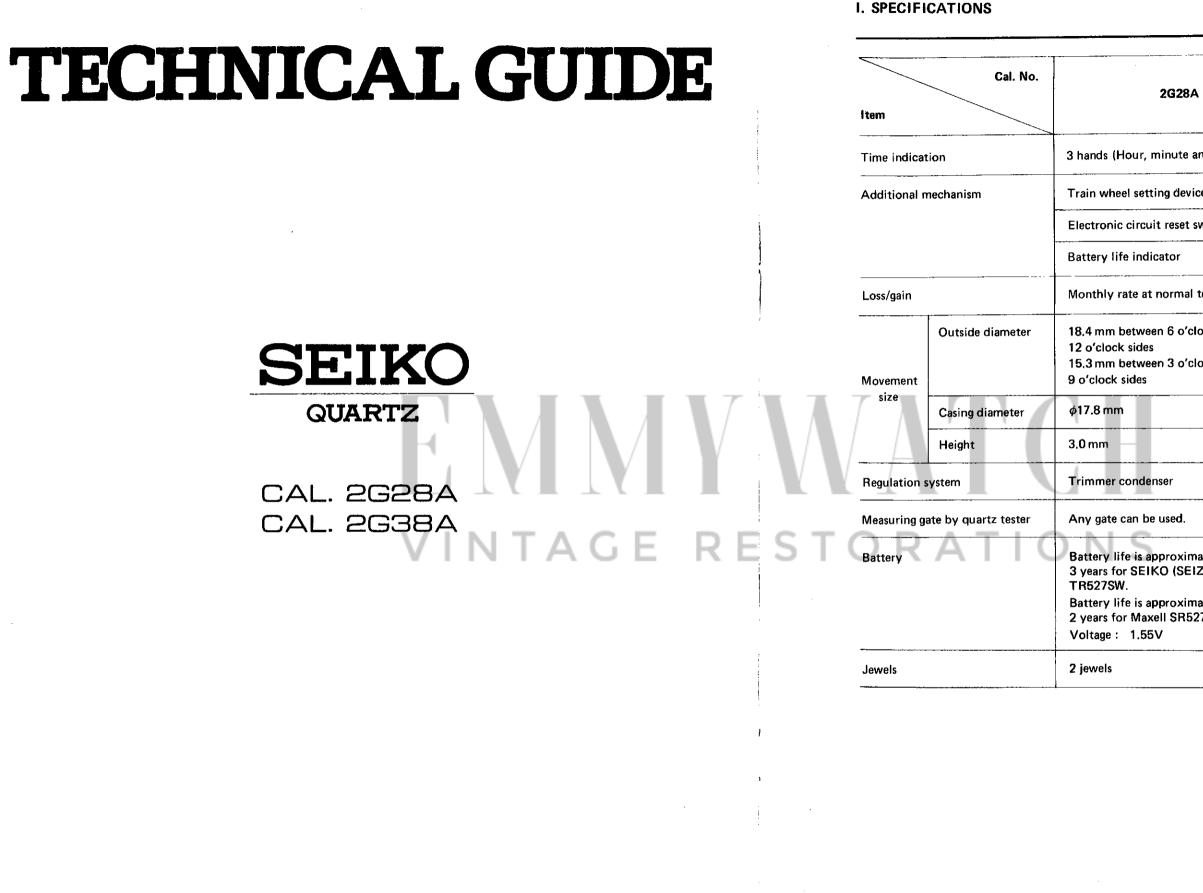
### Winding stem

☆351 079 ☆351 100 ☆351 225 ☆351 226 ☆351 227	If the combination of the winding stem and case is unknown, check the case number and refer to "SEIKO Quartz Casing Parts Catalogue" to choose a corresponding winding stem
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#### Battery

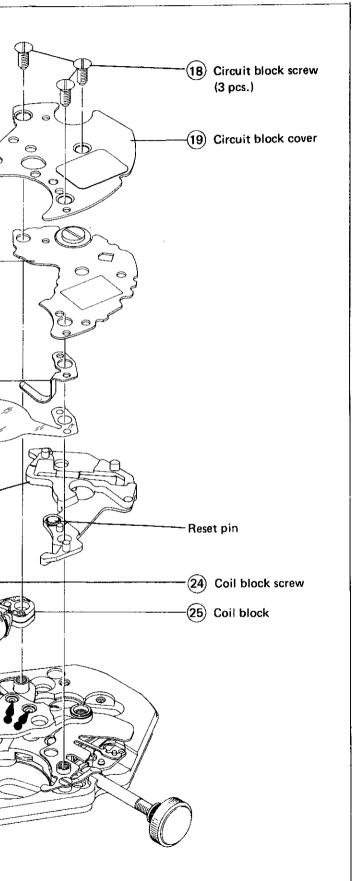
Cal.2G38A ☆ SEIKO TR521SW Cal.2G28A ☆ SEIKO TR527SW ☆ Maxell SR527SW ☆ SONY EVEREADY 319

The substitutive battery might be added to the applied battery in the future. In that case, please refer to separate **"BATTERY LIST FOR SEIKO "QUARTZ WATCHES"**. Note that SEIKO battery is marked with "SEIZAIKEN" on its (+) side.

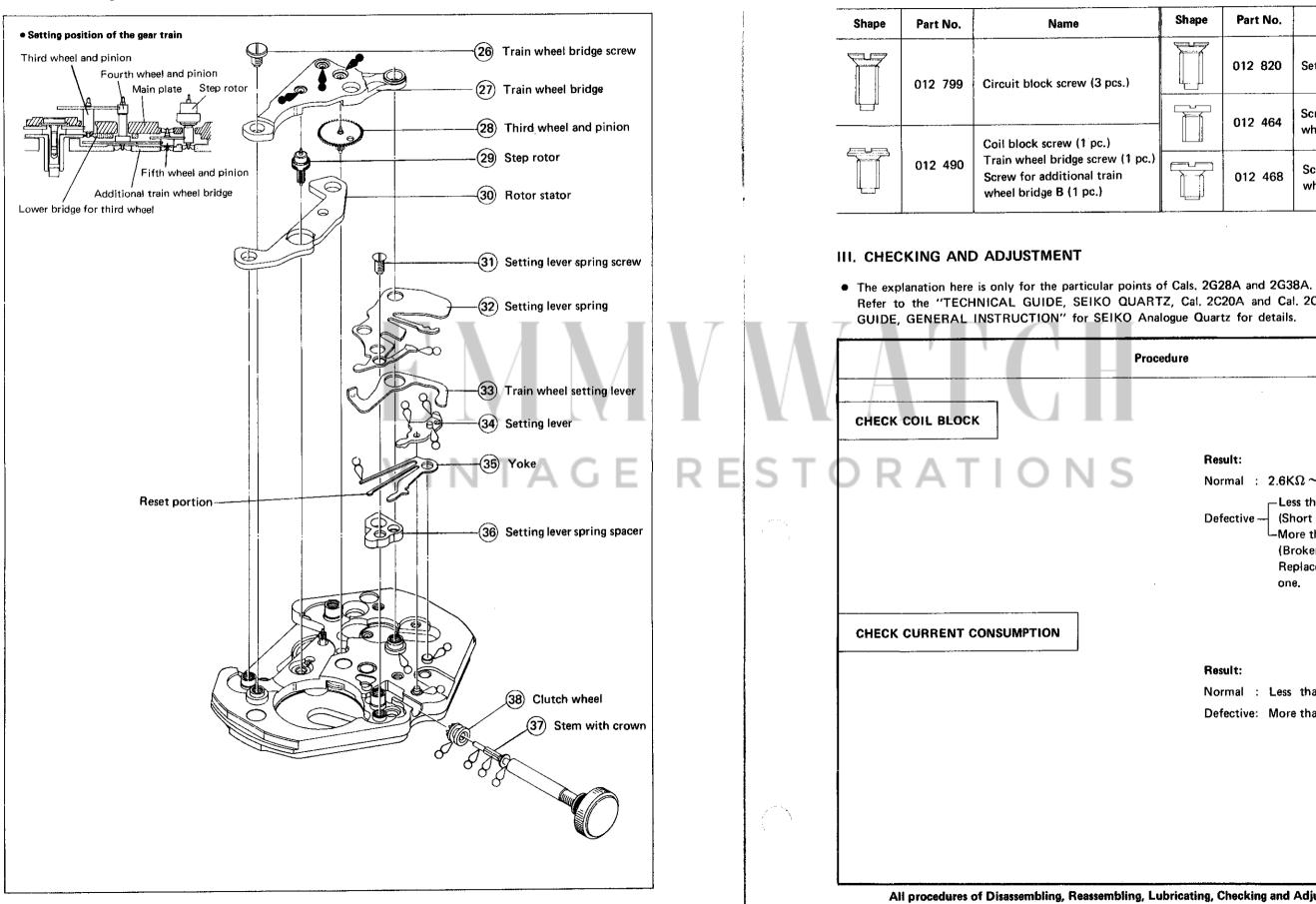


2G28A	2G38A	
nute and small seco	nd hands)	
g device		
reset switch		
tor		
ormal temperature	range: less than 15 seconds	
6 o'clock and	15.5 mm between 6 o'clock and 12 o'clock sides	
3 o'clock and	13.0 mm between 3 o'clock and 9 o'clock sides	
	¢15.1 mm	
	2.9 mm	
er		
sed.		
proximately D (SEIZAIKEN)	SEIKO (SEIZAIKEN) TR521SW Battery life is approximately 2 years.	
roximately I SR527SW.	Voltage: 1.55V	

II. DISASSEMBLING, REASSEMBLING, AND LU Disassembling procedures Figs.: $(1) \rightarrow (38)$ Reassembling procedures Figs.: Step 1 $(17) \rightarrow (4)$ Step 2 $(38) \rightarrow (18)$	Lubricating: Types of oil Oil quantity Moebius A $\infty$ Normal quantity	<b>y</b> .	2. Circuit block screw ~ Coil block
	SEIKO Watch Oil S-6 C Extremely smal	RESTO	<ul> <li>20 Circuit block</li> <li>• Handle the circuit block with care as it is thin.</li> <li>(21) Battery connection (-)</li> <li>(22) Battery connection insulator The battery connection insulator The battery connection (-) and the battery connection insulator are fixed to the pins of circuit block spacer. Do not remove them except when replacing them.</li> <li>(23) Circuit block spacer Remarks on reassembling Before installing the circuit block spacer, make sure that the reset pin is set in the right position, and push the crown in to the normal position.</li> <li>If it is installed with the crown pulled out, the reset portion of the yoke may be deformed.</li> </ul>
and pinion Second wheel Small second wheel Main plate	16 Setting wheel 17 Center minute wheel Lubricating		



### 3. Train wheel bridge screw $\sim$ Clutch wheel



List of the screws used

	Shape	Part No.	Name
		012 820	Setting lever spring screw (1 pc.)
		012 464	Screw for lower bridge for third wheel (2 pcs.)
.)		012 468	Screw for additional train wheel bridge A (2 pcs.)

Refer to the "TECHNICAL GUIDE, SEIKO QUARTZ, Cal. 2C20A and Cal. 2C21A" and the "TECHNICAL

Result:
Normal : 2.6K $\Omega$ ~ 3.3K $\Omega$
Less than 2.6KΩ (Short circuit) More than 3.3KΩ (Broken wire) Replace the coil block with a new one.
Result:
Normal : Less than 0.9µA
Defective: More than 0.9µA

All procedures of Disassembling, Reassembling, Lubricating, Checking and Adjustment are completed.