

Seiko 2P20A Movement Parts (1)

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(PARTS CATALOGUE/TECHNICAL GUIDE

Cal. 2P20A

Item	Cal. No.	2P20A				
Movement	EM					
	νιντα					
Movement size	Outside diameter	13.0 mm between 3 o'clock and 9 o'clock sides 15.5 mm between 6 o'clock and 12 o'clock sides				
	Casing diameter	15.0 mm between 6 o'clock and 12 o'clock sides				
	Height	1.8 mm				
Time indication		2 hands (Hand motion: 20-second step)				
Driving system		Step motor (Load compensated driving pulse type)				
Additional mechanism		 Electronic circuit reset switch Train wheel setting device 				
Loss/gain		Monthly rate at normal temperature range: less than 15 seconds				
Regulation system		Nil				
Measuring gate by quartz tester		Use 10-second gate.				
Battery		SEIKO SR516SW, Maxell SR516SW				
		Battery life is approximately 3 years. Voltage: 1.55V				
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HATTORI SEIKO CO., LTD.

PARTS CATALOGUE

Cal. 2P20A

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Remarks:

(4) Hour wheel

23) Center minute wheel

Combination:



(13) Setting lever 383 351

The setting lever is available in two types: one with a collar and the other without a collar. They can be used interchangeably.





(14) Winding stem 351 236 / 351 238

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

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TECHNICAL GUIDE

Cal. 2P20A

- The explanation here is only for the particular points of Cal. 2P20A.
- For the repairing, checking and measuring procedures, refer to the "TECHNICAL GUIDE, GENERAL INSTRUCTION".

I. STRUCTURE OF THE CIRCUIT BLOCK

There are two types of circuit block, and they can be used interchangeably.



II. REMARKS ON DISASSEMBLING AND REASSEMBLING

Use the universal movement holder for disassembling and reassembling.

(1) Hands

Remarks on installing

When installing the hands, place the movement directly on a flat metal plate or the like, escaping the spring portion of the circuit block cover.

(2) Dial

• How to remove

Insert the tip of a screwdriver into the notch between the main plate and the dial, and remove the dial by prying it up alternately at both ends.

(9) Circuit block cover

How to install

- 1) Push in the winding stem to the normal position.
- 2) Set the circuit block cover so that its hook catches the main plate. (Fig. 1 & 2)
 - * Do not press the setting lever spring portion at this time.
- Set the hole "A" of the circuit block cover onto the guide pin and hook the yoke portion to the protrusion of the setting lever. (Fig. 1 & 3)
 - * Do not bend the spring portion excessively.
- 4) Set the hole "B" of the circuit block cover securely onto the guide pin and tighten the two circuit block cover screws.







TECHNICAL GUIDE

(14) Winding stem

Remarks on installing

To prevent any crack onto the main plate, gently set the winding stem while turning it.

(17) Train wheel bridge

• Setting position



III. VALUE CHECKING

- Coil block resistance
 - 2.1K $\Omega \sim 2.6 K\Omega$ VINTAGE RESTORATIONS
- Current consumption

For the while of the movement: For the circuit block alone : less than $0.4\mu A$ less than $0.3\mu A$

Remarks:

When the current consumption exceeds the standard value for the whole of the movement but is less than the standard value for the circuit block alone, overhaul and clean the movement parts and then measure current consumption for the whole of the movement again. The driving pulse generated to compensate a heavy load that may apply on the gear train, etc. is considered to cause excessive current consumption for the whole of the whole of the movement.

/ WATCH

JUNE, 1987

Characteristics

- Casing diameter: \$\$\vec{\phi}\$15.0 mm
- Maximum height: 1.9 mm

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Jewels:

Train wheel setting

Remarks

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Winding stem: *351236, *351238 The type of winding stem is determined by the design of case. Check the case number and refer to "SEIKO Quartz Casing Parts Catalogue" to choose a corresponding one..

N/*	Part No.	Part Name		N/*	Part No.		Part Name	
N	125138	Train wheel bridge			022411	Train v	wheel bridge screw	
	231351	Third wheel & pinion			022411	Circuit	t block cover screw	
	261035	Minute wheel	7		-100350	Main p	late (Plastic)	
	270315	Center minute wheel						
	271135	Hour wheel		V.		UI		
	282035	Clutch wheel TACE D		sт	OPAT		c	
*	351236	Winding stem (10.1 mm)			ORAT		5	
*	351238	Winding stem (15.1 mm)					4	
	383351	Setting lever						
	391035	Train wheel setting lever						
	491220	Dial washer						
	494350	Train wheel bridge support					· · · · · · · · · · · · · · · · · · ·	
	4000352	Circuit block						
	4002035	Coil block	ĺ					
	4146036	Step rotor						
	4216350	Battery connection insulator						
	4225351	Battery clamp						
	4239035	Rotor stator						
	4270351	Battery connection (-)						
N	4457229	Circuit block cover			SEIKO SR516SW			
	011585	Upper hole jewel for step		1				
		rotor		MAXELL SR516SW Battery		Battery		
	012316	B16 Battery clamp screw			MATSUSHITA	SR516SW		

Technical Guide for Cal. 2L10A is not issued. Please refer to T/G, 2P20A. 'N' mark: New part '*' mark: See above remarks