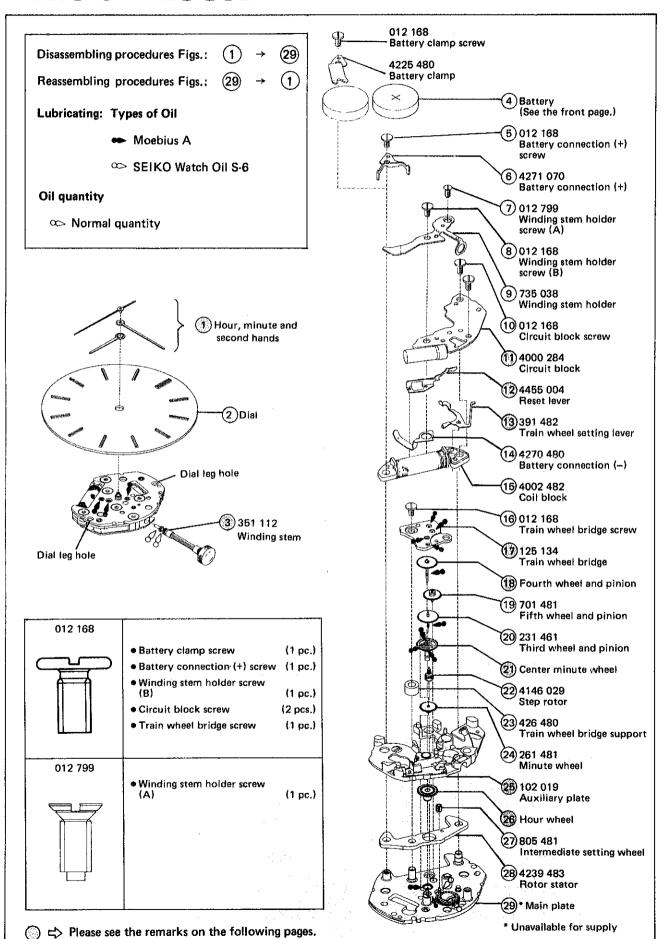
PARTS CATALOGUE/TECHNICAL GUIDE Cal. 8Y21A

[SPECIFICATIONS]

Cal. No.		8Y21A		
Item				
Movement		(x 2.0)		
Movement size	Outside diameter	18.4mm between 6 o'clock and 12 o'clock sides 15.3mm between 3 o'clock and 9 o'clock sides		
	Casing diameter	φ17.8mm		
	Height	2.8mm		
Time indication		3 hands		
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 20 seconds		
Regulation system		Nil		
Measuring gate by quartz tester		Use 10-second gate.		
Battery		SEIKO SR621SW, Maxell SR621SW, SONY SR621SW, EVEREADY 364 Battery life is approximately 2 years Voltage: 1.55V		
Jewels		0 jewel		

HATTORI SEIKO CO., LTD.



(3) Winding stem 351 112

The type of winding stem is determined based on the design of case.

Check the case number and refer to "SEIKO Casing Parts Catalogue" to choose corresponding winding stem.

- (18) Fourth wheel and pinion
- (21) Center minute wheel
- (26) Hour wheel

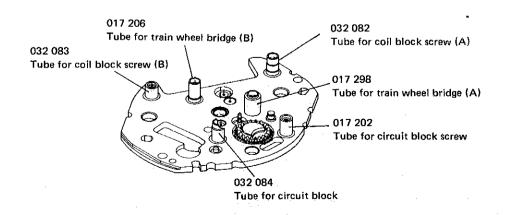
Part name Mov't type	Fourth wheel and pinion	Center minute wheel	Hour wheel
M			
	241 461	270 486	271 486

Movement type: M · · · Standard type

Battery clamp

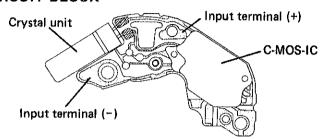
The types of battery clamp are determined based on the design of each model.

Tubes



- The explanation here is only for the particular points of Cal. 8Y21A.
- For the repairing, checking and measuring procedures, refer to the "TECHNICAL GUIDE, GENERAL IN-STRUCTIONS".

1. STRUCTURE OF THE CIRCUIT BLOCK

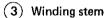


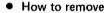
II. REMARKS ON DISASSEMBLING AND REASSEMBLING

Use the universal movement holder for disassembling and reassembling.

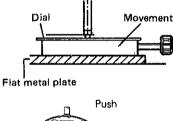
- 1)Hour, minute and second hands
- How to install

Place the movement directly on a flat metal plate or the like and install the hands.





While pushing the indented portion of the winding stem holder, pull out the winding stem.





- (11) Circuit block
- How to install

First set the crystal unit side of the circuit block to the movement, and then set the entire block while pressing the crystal unit part of the circuit block with fingers.

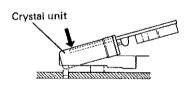


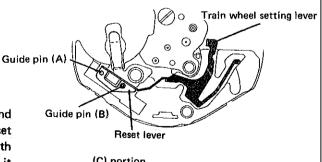
- (13) Train wheel setting lever
- Setting position
- · How to remove the reset lever

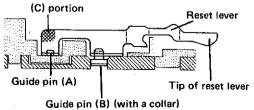
The reset lever is fixed with guide pins (A) and (B), and the guide pin (B) has a collar. To remove the reset lever, therefore, catch (C) portion of the reset lever with tweezers, and slide it sideways while lifting it, lest it should catch the guide pin (A).

How to install the reset lever

Hook the tip of the reset lever to the train wheel setting lever, and then set the reset lever to the guide pins (A) and (B) while holding its tip with fingers.

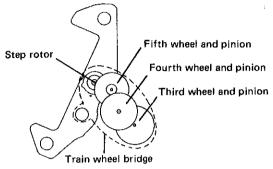






(17) Train wheel bridge

Setting position





How to remove

The auxiliary plate is fixed to the main plate using an interference. To remove it, push the arrow-marked portion in the illustration at right with tweezers or the like from the back side.

How to install

As indicated in the illustration at right, press the arrowmarked portion of the auxiliary plate near the guiding hole for winding stem with something that has a flat face

After the auxiliary plate is installed, check that there is no clearance between the auxiliary plate and the main plate.

III. VALUE CHECKING

Coil block resistance

2.0K $\Omega \sim 2.4$ K Ω

• Current consumption

For the whole of the movement : less than $1.3\mu A$ For the circuit block alone : less than $0.9\mu A$

_ .

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 movement.

