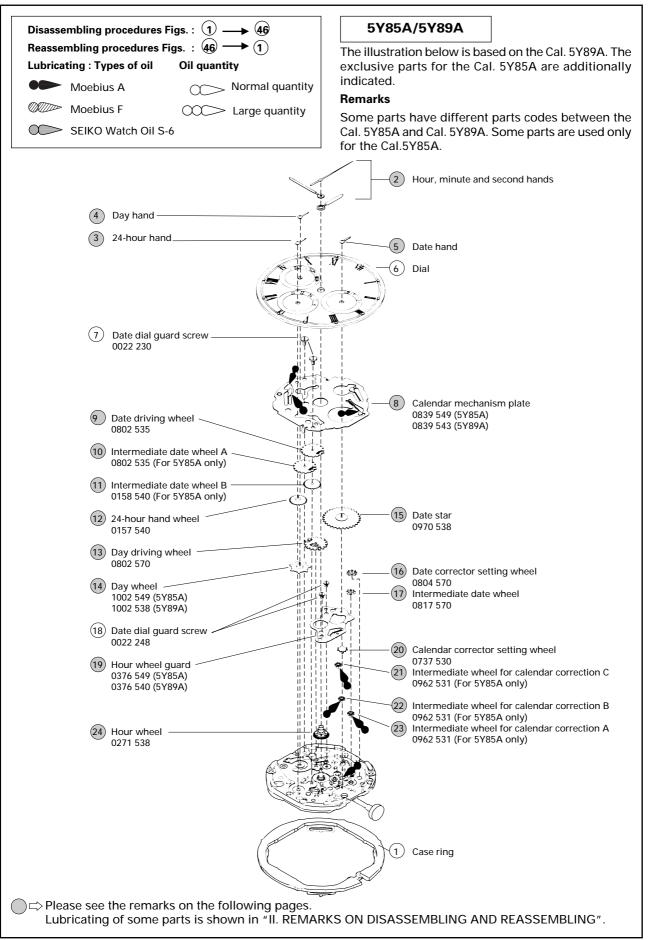
PARTS CATALOGUE/TECHNICAL GUIDE Cal. 5Y85A/5Y89A

[SPECIFICATIONS]

Cal. No.		5Y85A	5Y89A	
Movement				
Mayamant		The illustrations refer to Cal. 5Y89A ø 24.0 mm	A. (x 1.0)	
Movement size	Outside diameter	21.5 mm between 3 o'clock and 9 o'clock sides 21.5 mm between 6 o'clock and 12 o'clock sides		
	Casing diameter	ø 23.3 mm 21.3 mm between 3 o'clock and 9 o'clock sides 21.5 mm between 6 o'clock and 12 o'clock sides		
	Height	3.05 mm (Including battery portion)		
Time indication		3 hands (hour, minute and second hands)		
Driving system		Step motor (Load compensated driving pulse type)		
Additional mechanism		 Day calendar Instant setting divice for day calendar Date calendar Electronic circuit reset switch Train wheel setting device 24 hour dial disk 		
Loss/gain		Monthly rate within normal temperature range: less than 20 seconds		
Regulation system		Nil		
Measuring gate by quartz tester		Use 10-second gate		
Battery	Battery No.	SEIKO SR916SW		
	Voltage	1.55 V		
	Battery life	Approximately 3 years		
Jewels		1 jewel		

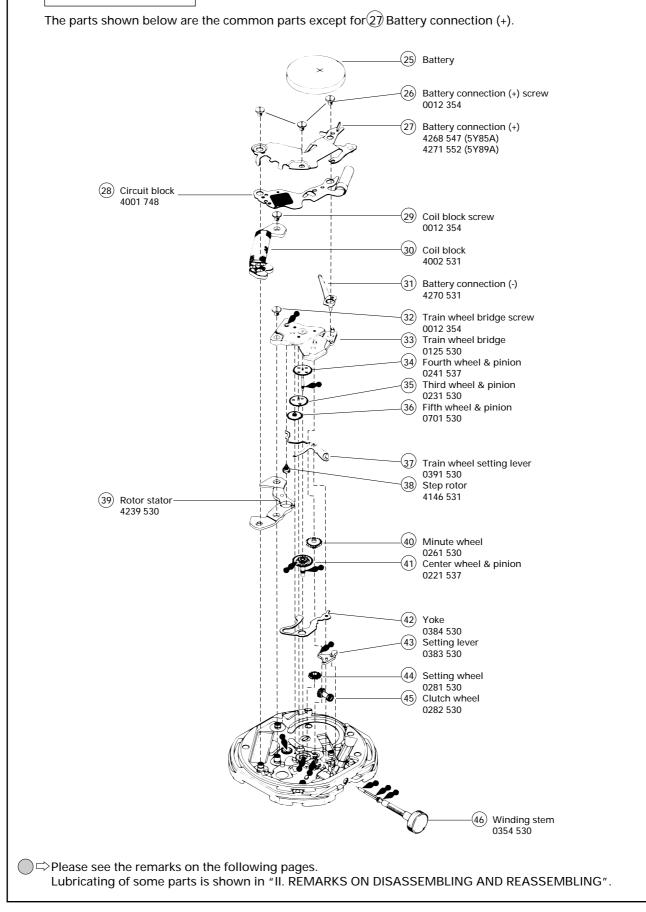
PARTS CATALOGUE



Cal. 5Y85A/5Y89A

PARTS CATALOGUE

5Y85A/5Y89A



- The explanation here is only for the particular points of the Cal. 5Y85A and 5Y89A.
- For preparing, checking and measuring procedures, refer to the "TECHNICAL GUIDE, GENERAL INSTRUCTIONS".

I. REMARKS ON DISASSEMBLING AND REASSEMBLING

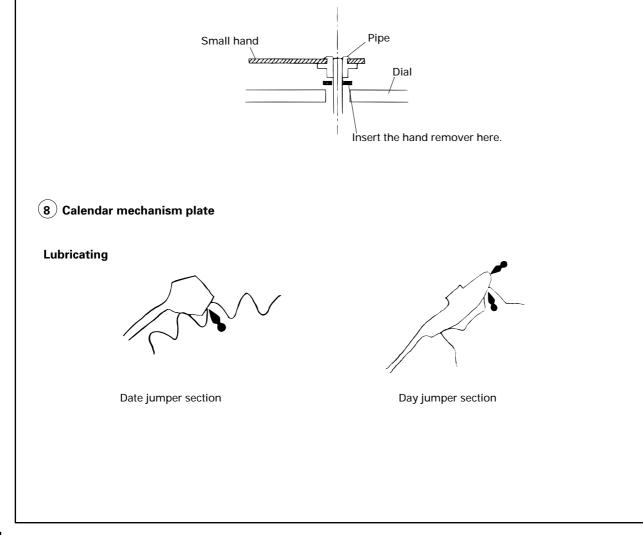
(2) Hour, minute, second hands \sim (5) Date hand

How to install the hands

- 1. Pull out the crown to the second click. Rotate the crown until the date, and subsequently, the day of the week change. After confirming the completion of the date and the day of the week change, set the dial.
- 2. Install the date hand and the day hand in order.
- 3. Rotate the crown further until just after the date changes.
- 4. Install the 24-hour hand at the 24 o'clock (zero) position.
- 5. Install the hour, minute and second hands to the 12 o'clock position.

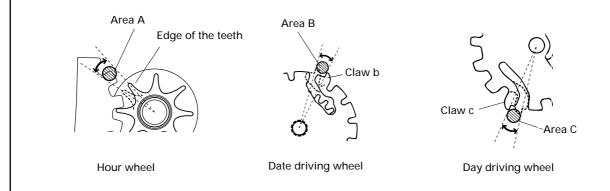
Remarks on removing the small hands (Date, day and 24-hour hands)

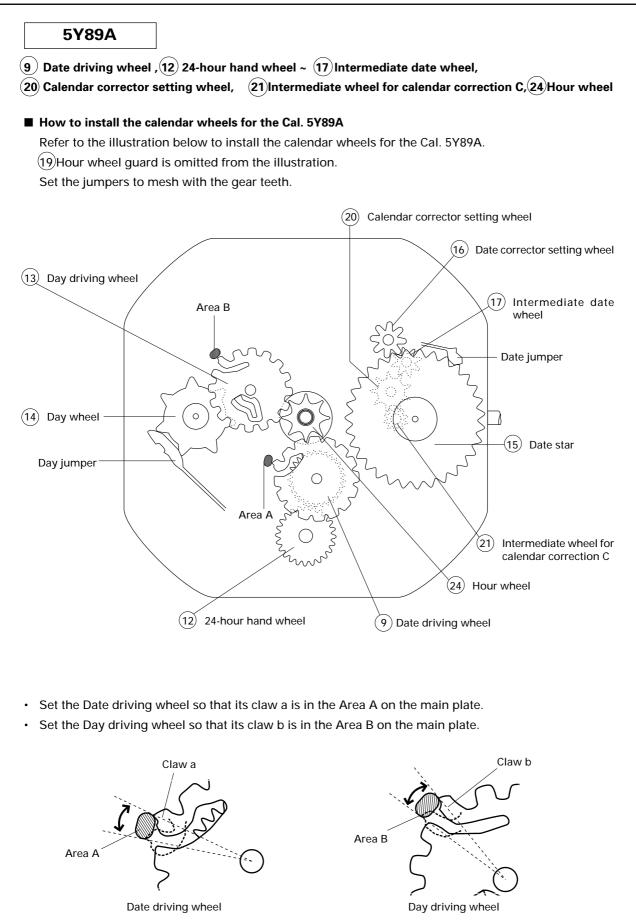
- When pulling out the small hands, be sure to hold the dial while pulling them out.
- When pulling out a small hand, put the hand remover under the pipe of the hand and then remove the hand.



5Y85A

(10) Intermediate date wheel A \sim (17) Intermediate date wheel, (19) Hour wheel guard ~ (24) Hour wheel ■ How to install the calendar wheels for the Cal. 5Y85A Refer to the illustration below to install the calendar wheels for the Cal. 5Y85A. Set the jumpers to mesh with the gear teeth. (17) Intermediate date wheel (19) Hour wheel guard (16) Date corrector setting wheel (20) Calendar corrector (14) Day wheel setting wheel Date jumper (21) Intermediate wheel for calendar correction C Area A (22) Intermediate wheel for calendar correction B (23) Intermediate wheel for Day jumper calendar correction A (15) Date star Area B Area C Ś (13) Day driving wheel (9) Date driving wheel (24) Hour wheel (11) Intermediate date wheel B (10) Intermediate date wheel A (12) 24-hour hand wheel • Set the hour wheel so that any of its eight teeth is in the Area A on the hour wheel guard. Set the date driving wheel so that its claw b is in the Area B on the main plate. . Set the day driving wheel so that its claw c is in the Area C on the main plate.





20 Calendar corrector setting wheel D Lubricating Lubricate the inner edge of the oval hole on the main plate where the calendar corrector setting wheel oscillates. Moebius A Oval hole on the main plate (21) Intermediate wheel for calendar correction C ~ (23) Intermediate wheel for calendar correction A Lubricating Lubricating



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Value checking

Coil block resistance

 $3.0 \text{ kW} \sim 3.4 \text{ kW}$

Current consumption

For the whole movement	:	Less than 1.2 mA
For the circuit block only	:	Less than 0.4 mA

III. Troubleshooting

Symptoms	Problems	Solutions
The watch stops.	The battery is weak or dead.	Measure the battery voltage. Change the battery
	The hands are worn out.	Change the hands.
	The coil is burned out.	Measure the coil block resistance. Change the coil block.
	The wheels are soiled with dirt and dust. The amount of oil is excessive(wringing).	Remove all dust or dirt. Clean up the relevant parts. Be careful not to damage the teeth of the plastic parts while cleaning.
The current consumption for the whole movement	Dirt, dust or chips are adhere to the movement.	Remove all dust or dirt.
is excessive.	The driving pulse is generated due to the excessive load to the wheels. (The oil is deteriorated, leaked or ran out.)	Measure the current consumption for the circuit block alone. If the result is within the standarc range, overhaul and clean the movement parts and then measure the current consumption for the whole movement again.
The date or day hand dose not move.	The relevant wheels are disengaged. The relevant jumpers are disengaged.	Check the setting position of the relevant wheel and jumpers.
The date or day of the week changes at a wrong timing.	The date driving wheel and/or day driving wheel are wrongly installed.	Reinstall the relevant wheels correctly. (Refer to the instructions on the page 5 and 6.)
	The hour, minute hands are wrongly installed.	Reinstall the hour and minute hands. (Refer to the instructions on the page 4.)