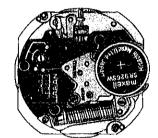
TECHNICAL GUIDE

SEIKO

CAL. 6923A





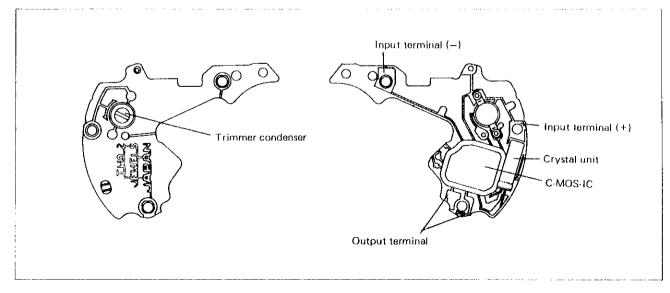
CONTENTS

I.	SPECIFICATIONS	1
П.	STRUCTURE OF THE CIRCUIT BLOCK	1
III.	DISASSEMBLING, REASSEMBLING AND LUBRICATING	2
	1. Hour, minute, and second hands ~center minute wheel	2
	2. Coil block screw ~ crystal unit cushion	3
	3. Train wheel bridge screw ~ clutch wheel	4
IV.	CHECKING AND ADJUSTMENT	5
	Check output signal	5
	• Check hand setting condition	5
	Check battery voltage	5
	• Check battery conductivity	5
	• Check circuit block conductivity	5
	Check coil block	5
	Check gear train mechanism	5
	Check setting and calendar mechanism	5
	Check reset and train wheel setting conditions	6
	• Check accuracy	7
	• Check current consumption	7
	• Check water resistance	8
	Check battery life indicator	8
	Check appearance and functioning	8

I. SPECIFICATIONS

	Cal. No.	6922A	6923A	
Item		UULEN	JULIUN	
Time indication	on	3 hands		
Additional me	echanism	Date Day and date		
	-	Instant date setting device	Instant day and date setting device	
		Train wheel setti	ng device	
		Electronic circuit reset switch		
		Battery life indicator		
Loss/gain		Loss/gain at normal temperature range Monthly rate: less than 15 seconds		
Movement size	Outside diameter		n 3 o'clock and 9 o'clock n 6 o'clock and 12 o'clock	
	Casing diameter	φ22.0 mm		
	Height	2.3 mm	2.5 mm	
Regulation sys	stem	Trimmer condenser		
Measuring gate by quartz tester		Any gate is available.		
Battery		Maxell SR926SW, SEIKO (SEIZAIKEN) TR926SW Battery life is approximately 5 years. Voltage: 1.55V		
Jewels		2 jewels		

II. STRUCTURE OF THE CIRCUIT BLOCK



1

III. DISASSEMBLING, REASSEMBLING AND LUBRICATING

Disassembling procedures Figs. : $(1) \sim (45)$ Reassembling procedures Figs. : $(45) \sim (1)$

Lubricating:

Types of oil

Oil quantity

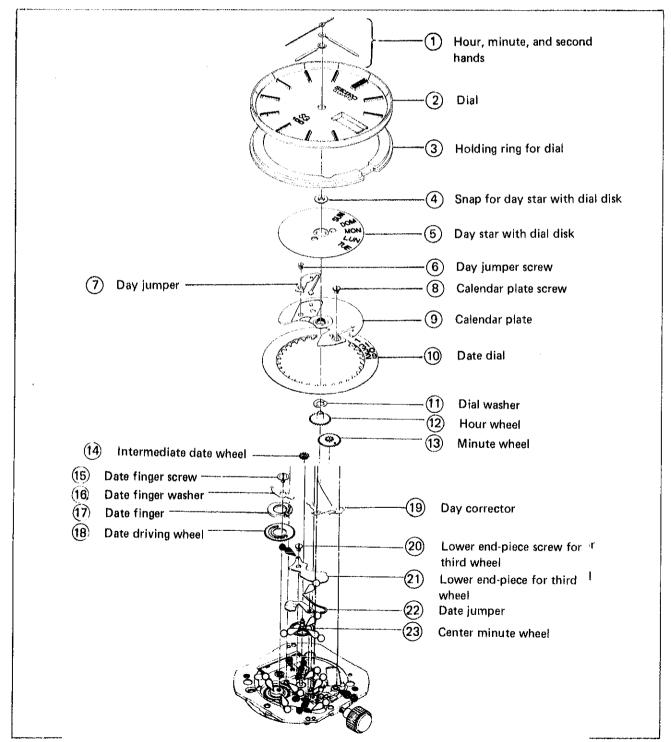
Moebius A

Extremely smallNormal

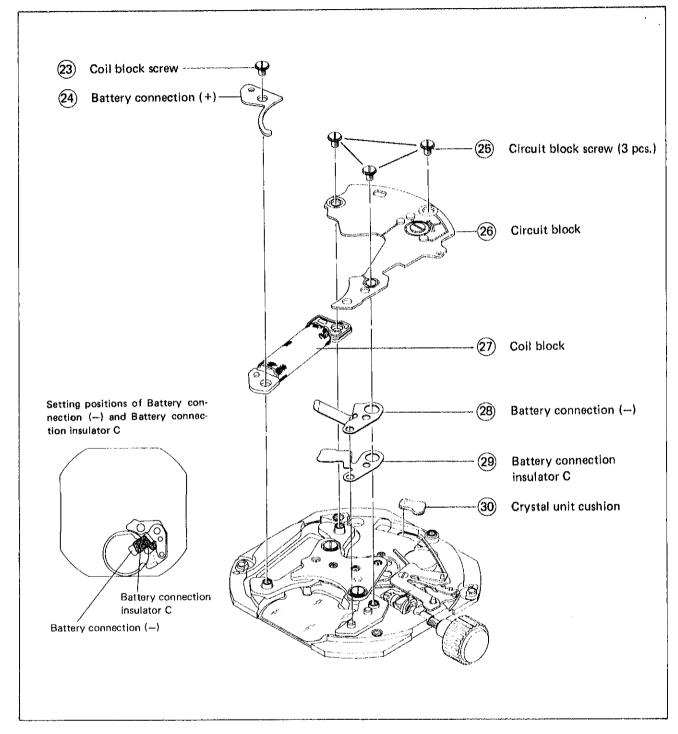
SEIKO Watch Oil S-6

• Use the movement holder S-666 for disassembling and reassembling.

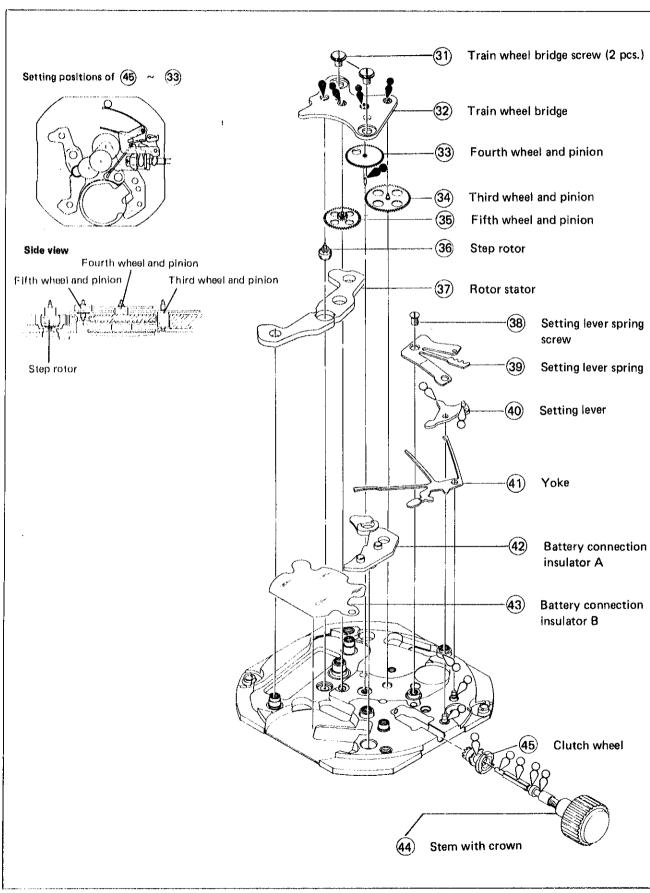
1. Hour, minute, and second hands \sim center minute wheel



2. Coil block screw ~ crystal unit cushion



3. Train wheel bridge screw \sim clutch wheel



IV. CHECKING AND ADJUSTMENT

• The explanation here is particularly for the points of Cal. 6922A and 6923A.

Refer to the "TECHNICAL GUIDE, GENERAL INSTRUCTION" for SEIKO Analogue Quartz for details.

Procedure CHECK OUTPUT SIGNAL Use the electro-magnetic detection microphone. Result: Any gate of the quartz tester is available. Normal: Input indicator blinks every second, Defective: Input indicator does not blink every second. **CHECK HAND SETTING CONDITION CHECK BATTERY VOLTAGE** Result: Set up the volt-ohm-meter. Normal : More than 1.5V Ragne to be used: DC 3V Defective: Less than 1.5V Replace the battery with a new one. CHECK BATTERY CONDUCTIVITY CHECK CIRCUIT BLOCK CONDUCTIVITY CHECK COIL BLOCK Set up the volt-ohm-meter, and be sure to make a zero-ohm adjustment. Range to be used: OHMS x 100 Result: Normal : $2.7K\Omega \sim 3.7K\Omega$ Less than 2.7K Ω Defective - (Short circuit) LMore than 3.7K Ω (Broken wire) Replace the coil block with a new one. **CHECK GEAR TRAIN MECHANISM** CHECK SETTING AND CALENDAR MECHANISM

Procedure

CHECK RESET AND TRAIN WHEEL SETTING CONDITIONS

- 1. Check the reset portion of the yoke.
 - e Crown at the normal and the first click positions

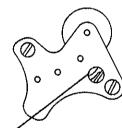
Reset portion Groove on the main plate

Inspection hole on the train wheel bridge

· Crown at the second click position

2. Check the setting portion of the yoke.

• Crown at the normal and the first click positions

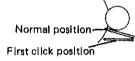


Inspection hole on the train wheel bridge

• Crown at the second click position

Result:

Normal: The reset portion is outside the groove.



Defective: The reset portion is inside the groove. Replace the yoke with a new one.

Normal: The reset portion is inside the groove.



Defective: The reset portion is outside the groove. Replace the yoke with a new one.

Result:

: Clearance between the setting portion Normal and the fourth wheel and pinion



Defective: No clearance

Replace the yoke with a new one.

Normal : No clearance between the setting portion and the fourth wheel and pinion



Defective : Clearance

Replace the yoke with a new one.

Procedure

3. After reassembling, check to see if the second hand stops promptly when the crown is pulled out to the second click position and if it starts promptly one second after the crown is pushed in back to the first click or the normal position,

> Reset condition can also be confirmed by the procedure CHECK OUTPUT SIGNAL.\ Crown at the second click position: Does not blink every second. Crown at the first click or the normal position: Blinks every second.

CHECK ACCURACY

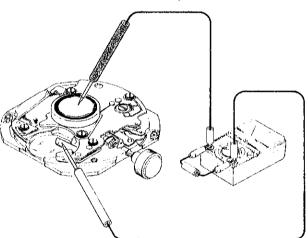
Use the electro-magnetic detection microphone.

CHECK CURRENT CONSUMPTION

Set up the volt-ohm-meter. Range to be used: DC 12µA

Check current consumption for the whole of the movement.

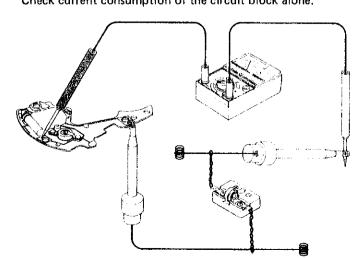
Probe red Battery connection (-) Probe black Battery (--) surface



Result:

Normal: Less than 1.0µA Defective: More than 1.0µA*

*How to find defects when the current consumption is more than 1.0 μ A: Check current consumption of the circuit block alone.



Result:

Normal : Less than 0,3µA

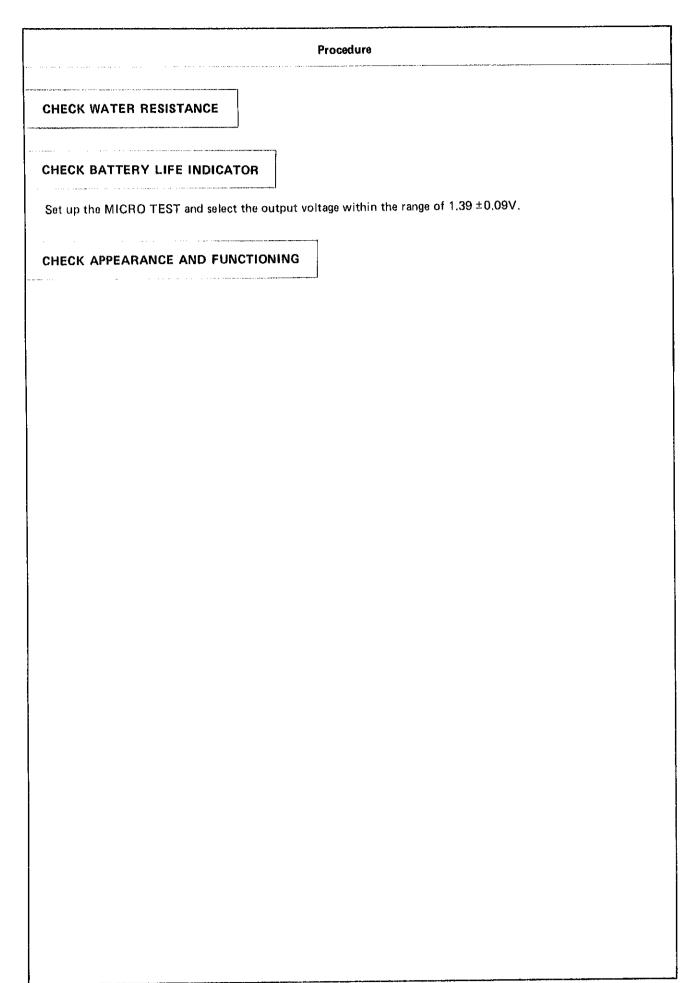
Check the gear train mecha-

nism.

Defective: More than 0.3µA

Replace the circuit block

with a new one,



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