# TECHNICAL GUIDE AND PARTS LIST

CAL. V252A

ANALOGUE QUARTZ

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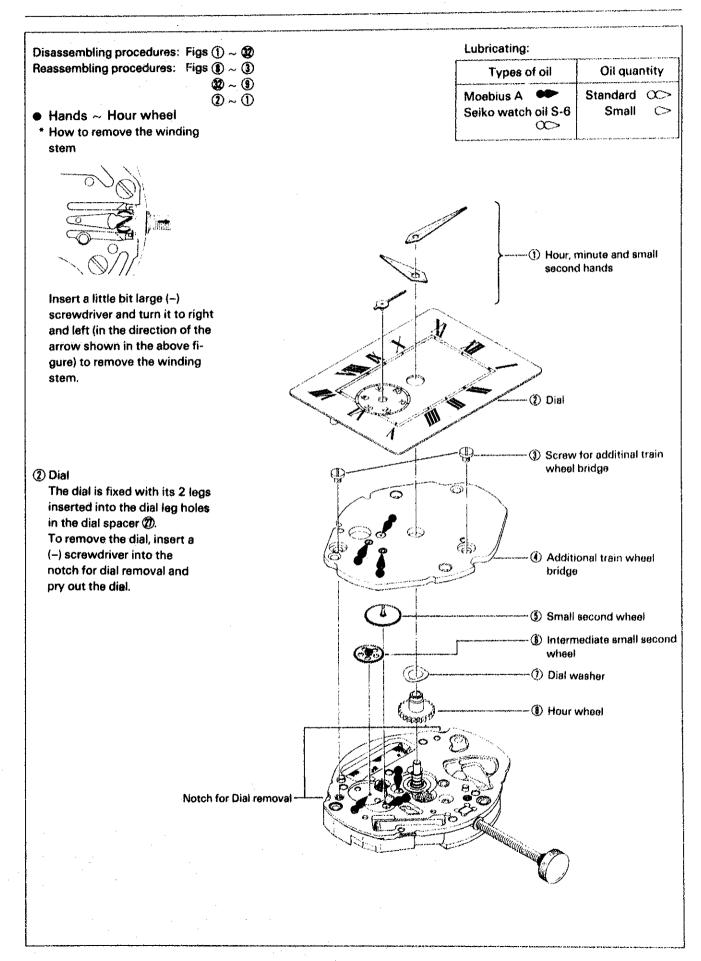
### I. SPECIFICATIONS

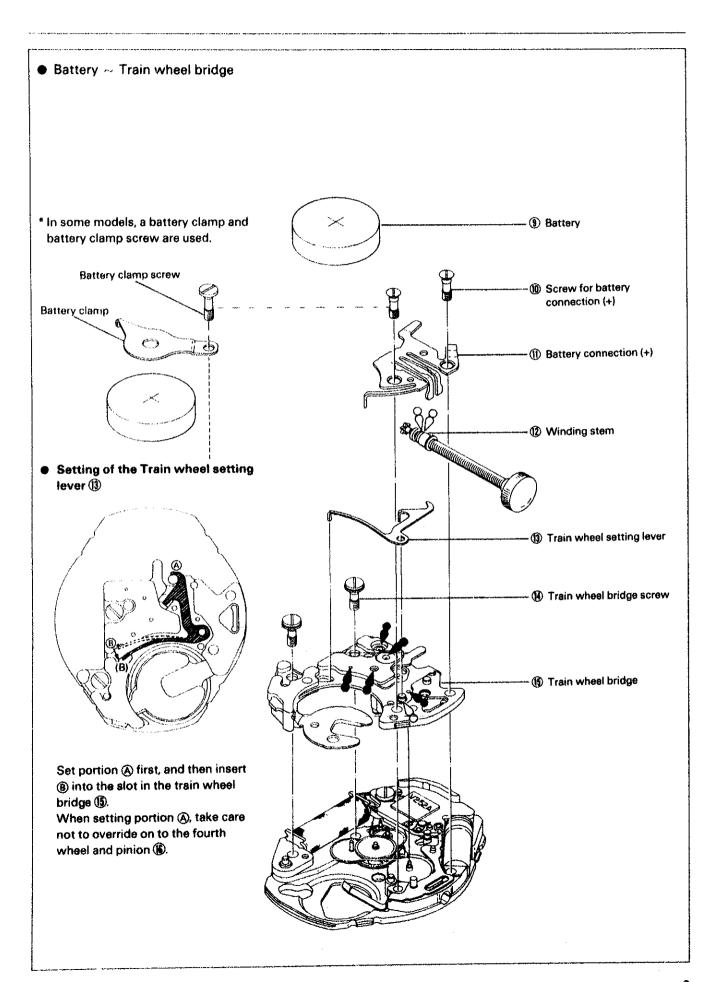
Cal. No.		V252A	
Indication system  Driving system  Additional mechanism  Loss/gain		Three hands (Hour, minute and small second hand)	
		Step motor	
		Electronic reset switch Second setting device	
		Monthly rate: less than 20 seconds at normal temperture range	
	Size of main plate	φ18.4 mm (6H – 12H), 15.3 mm (3H – 9H)	
Movement size	Casing diameter	φ18.1 mm	
SILO	Height	2.9 mm	
Regulation system			
Quartz Tester measuring gate		10-second gate	
	Battery	SEIKO (SEIZAIKEN) TR621SW, Maxell SR621SW, SONY EVEREADY 364	
Battery	Voltage	1.55V	
	Battery life	Approx: 2 years for SEIKO (SEIZAIKEN) TR621SW, Approx: 1.5 years for MAXELL SR621SW and SONY EVEREADY 364	
Jewels		O jewel	

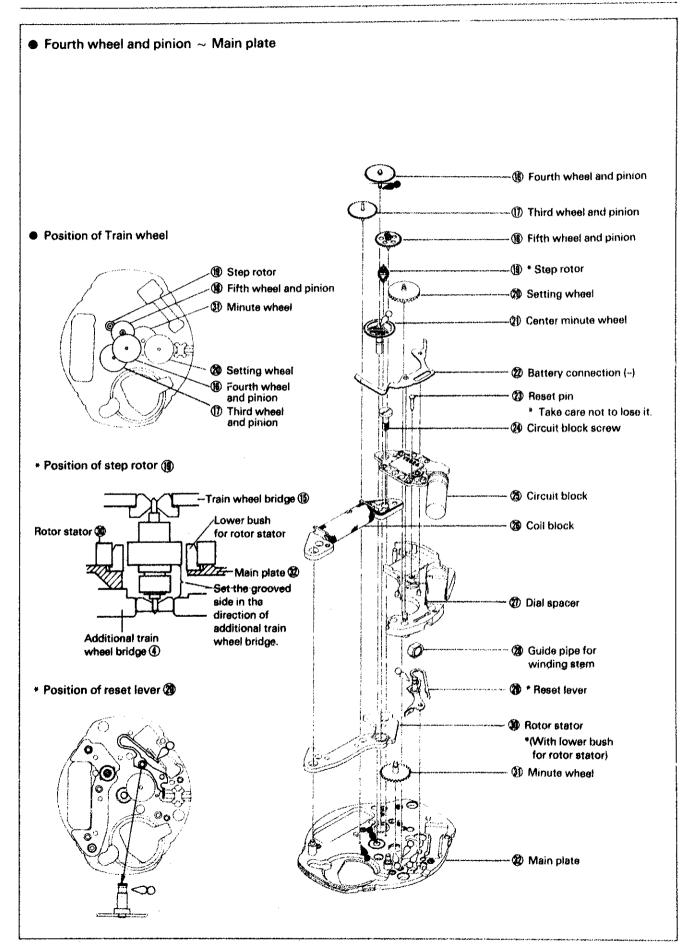
## II. LIST OF SCREWS USED

Shape	Part No.	Name	Shape	Part No.	Name
	012 057	Circuit block screw (1 pce.)		*012 060	Battery clamp screw (1 pce.)
	012 058	Train wheel bridge screw (2 pcs.)		012 708	Screw for battery connection (+) (2 pcs.)
	012 315	Screw for additional train wheel bridge (2 pcs.)	* The ba	ttery clamp scr	ew is not used in some models

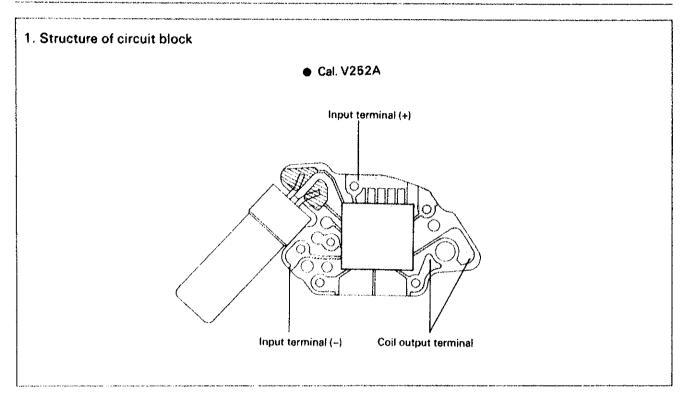
## III. DISASSEMBLING, REASSEMBLING AND LUBRICATING





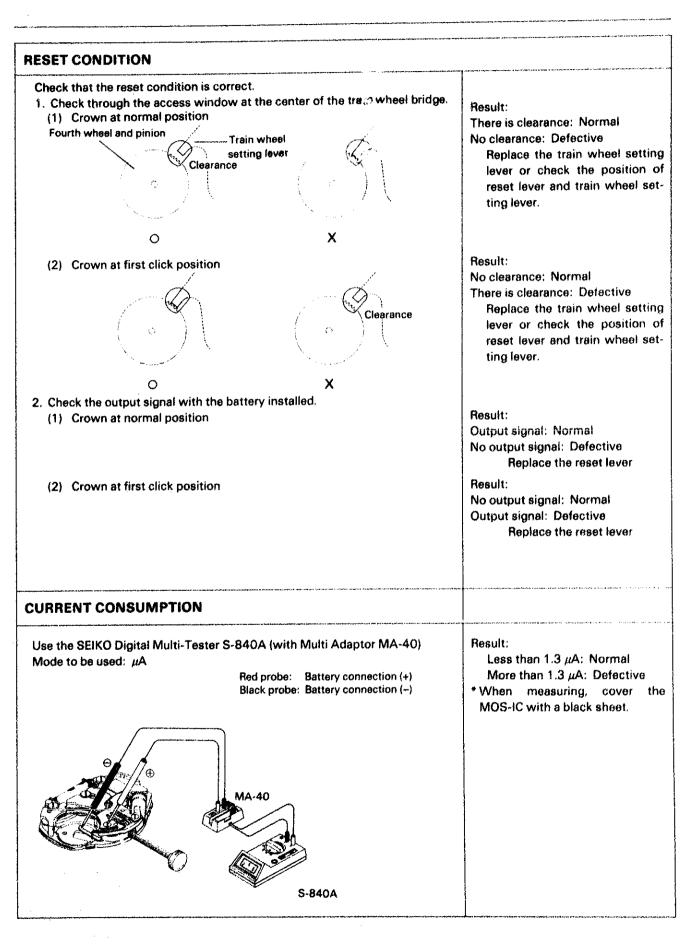


## IV. CHECKING AND ADJUSTMENT



- 2. Procedure for checking and adjustment
- This section only gives the checking and adjustment procedure which is exclusive for this watch.
  For the normal checking and adjustment, refer to the "TECHNICAL GUIDE GENERAL INSTRUCTION, Analogue Quartz".
- The page numbers in the item correspond to those in the "TECHNICAL GUIDE GENERAL INSTRUCTION, Analogue Quartz".

OUTPUT SIGNAL	
1. Use the Quartz Tester. 2. Turn the measuring gate selection to "10-second" gate.	Result: Output signal: Normal No output signal: Defective
BATTERY VOLTAGE	
Use the SEIKO Digital Multi Tester S-840A Range to be used: DC V	Result: 1.57V or more: Normal Less than 1.57V: Defective Replace the battery.
COIL BLOCK	
Check the coil block for broken wire and short circuit using the SEIKO Digital Multi Tester S-840A. Range to be used: $\varOmega$	Result: $2.3\sim 2.7~\mathrm{k}\Omega$ : Normal Less than $2.3~\mathrm{k}\Omega$ (short circuit): Defective More than $2.7~\mathrm{k}\Omega$ (broken wire):



## V. PARTS LIST

Cal. V252 A				
PARTS NO.	PARTS NAME			
125023	Train wheel bridge			
126 004	Additional train wheel bridge			
231 033	Third wheel & pinion			
238 233	Guide pipe for winding stem			
240 008	Small second wheel			
241 063	Fourth wheel & pinion			
261 237	Minute wheel			
*270 064	Center minute wheel			
*270 065	Center minute wheel			
<b>•271 073</b>	Hour wheel			
*271 074	Hour wheel			
281 237	Setting wheel			
317 004	Intermediate small second wheel			
*351 131	Winding stem			
<b>*3</b> 61 132	Winding stem			
391 233	Train wheel setting lever			
491 141	Dial washer			
701 010	Fifth wheel & pinion			
4000 085	Circuit block			
4002 239	Coil block			
4146 012	Step rotor			
4225 237	Battery clamp			
4239 028	Rotor stator			
4270 237	Battery connection (-)			
4271 243	Battery connection (+)			
4408 240	Dial spacer			
4455 237	Reset lever			
012 057	Circuit block screw			
012 058	Train wheel bridge screw			
012 060	Battery clamp screw			
012 315 Screw for additional train when				
012 708	Screw for battery connection (+)			
017 591	Reset pin			
• SEIKO (SEIZAIKEN)	Battery			
TR621SW				
• MAXELL SR621SW				
• SONY EVEREADY				
364				

#### Remarks:

\* Centr minute wheel, Hour wheel

There are two different types as specified below. Combination:

*Type	Center minute wheel	Hour wheel
М	270 064	271 073
L	270 065	271 074

\*Abbreviation M...Standard type (Movement type) L....Long type

\* Winding stem

The type of winding stem is determined based on the design of case. Please refer to "Casing Parts Catalogue."