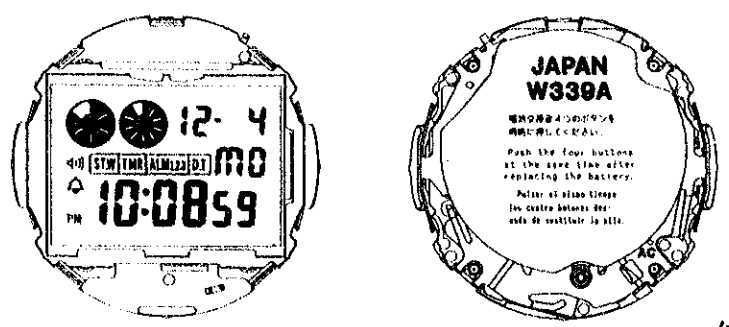


# PARTS CATALOGUE/TECHNICAL GUIDE

## Cal. W339A

### [SPECIFICATIONS]

Item		Cal. No.	W339A
Module			
Module size	Outside diameter	ø27.4mm	
	Casing diameter	ø27.4mm	
	Height	5.73mm	
Display medium		Nematic Liquid Crystal, FEM (Field Effect Mode)	
Liquid crystal driving system		1/3 multiplex driving system	
Display system		<ul style="list-style-type: none"> <li>• Time/calendar display</li> <li>• Stopwatch display (Up to 30 hours in 1/100 seconds)</li> <li>• Timer display (Up to 30 hours)</li> <li>• Alarm display (3-channel alarm)</li> <li>• Dual time display</li> </ul>	
Additional mechanism		<ul style="list-style-type: none"> <li>• Alarm test system</li> <li>• Illuminating light</li> <li>• All segments light-up system</li> <li>• Hourly time signal</li> </ul>	
Loss/gain		Monthly rate at normal temperature range: less than 20 seconds	
Regulation system		Nil	
Measuring gate by quartz tester		Use 6-second gate with all the segments of the display lit up.	
Battery		SEIKO CR2025, Matsushita CR2025 Battery life is approximately 5 years. Voltage: 3.0 V	

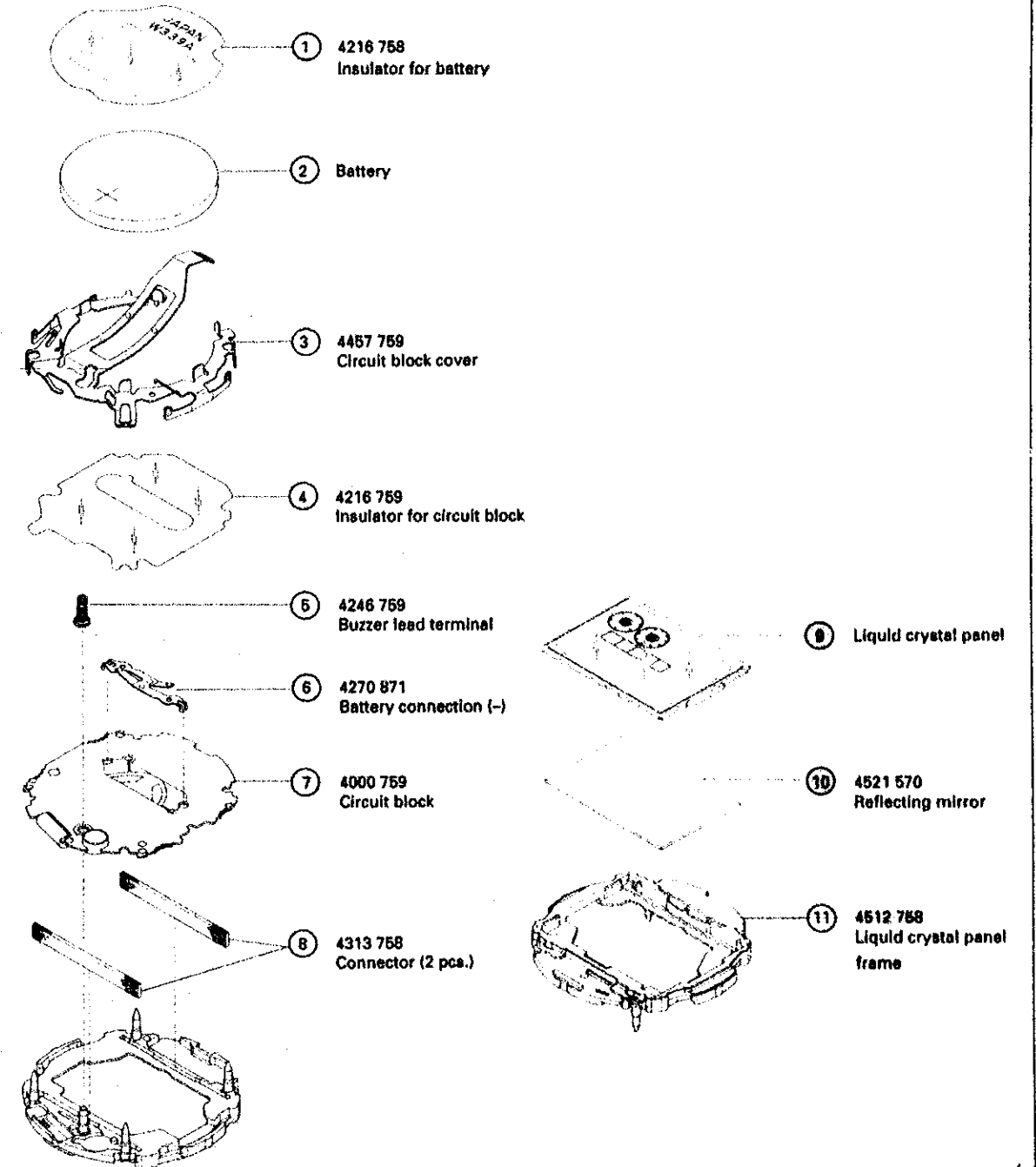
SEIKO CORPORATION

# PARTS CATALOGUE

Cal. W339A

Disassembling procedures Figs. : ① → ⑪

Reassembling procedures Figs. : ⑪ → ①



• Other part  
Piezoelectric element 4589 759

➡ Please see the remarks on the following pages.

# PARTS CATALOGUE

Cal. W339A

**Remarks:**

⑨ Liquid crystal panel

L/C panel No.	L/C panel color	L/C panel design	Module ref. No.
4520 758	Silver	Circular graphic display	UW33920
4520 759	Gold	Circular graphic display	UW33925
4520 778	Silver	Semicircular graphic display	UW33921
4520 779	Gold	Semicircular graphic display	UW33926

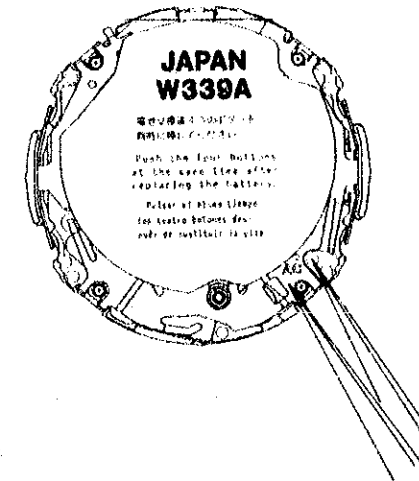
The type of liquid crystal panel is determined based on the design of cases.  
Refer to "Casing Parts Catalogue" to choose a corresponding liquid crystal panel.

# TECHNICAL GUIDE

Cal. W339A

## II. REMARKS ON INSTALLING THE BATTERY

- A necessary step after installing the battery
- After the battery is replaced with a new one, or after the battery is removed and re-installed following the repairing procedures, be sure to short-circuit the AC terminal of the circuit block and the switch spring with conductive tweezers to reset the circuit.

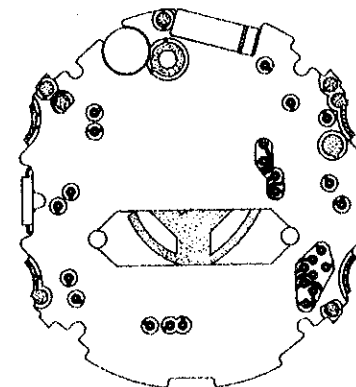
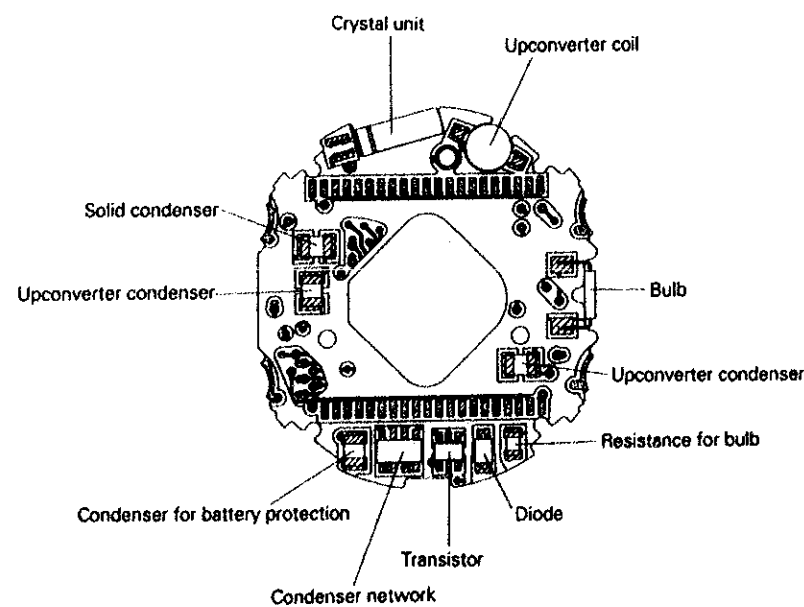


# TECHNICAL GUIDE

Cal. W339A

- The explanation here is only for the particular points of Cal. W339A.
- For the repairing, checking and measuring procedures, refer to the "TECHNICAL GUIDE, GENERAL INSTRUCTIONS".

## I. STRUCTURE OF THE CIRCUIT BLOCK



## III. REMARKS ON DISASSEMBLING AND REASSEMBLING

- ⑨ Liquid crystal panel
- ⑩ Reflecting mirror

- After disassembling the parts ① to ⑧, reverse the module to remove the liquid crystal panel and reflecting mirror.

## IV. VALUE CHECKING

- Upconverter coil resistance: 140Ω ~ 180Ω
- Current consumption
  - For the whole of the module : less than 4.0μA
  - For the circuit block alone : less than 3.0μA