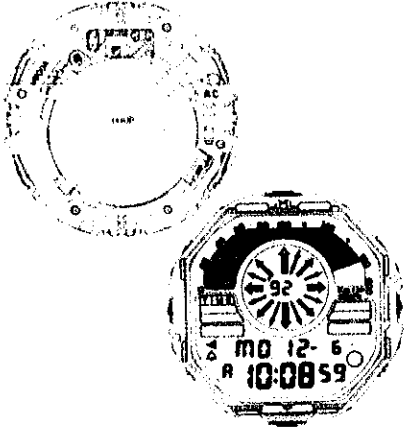
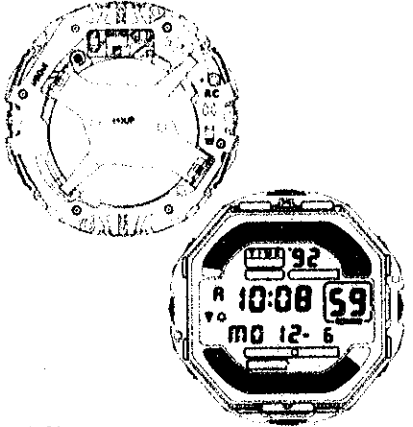


PARTS CATALOGUE/TECHNICAL GUIDE

Cal. W800A Cal. W801A

[SPECIFICATIONS]

Item	Cal. No.	W800A	W801A
Module			
		(x 1.0)	(x 1.0)
Module size	Outside diameter	31.7mm between 6 o'clock and 12 o'clock sides 31.6mm between 3 o'clock and 9 o'clock sides	
	Casing diameter	-	
	Height	6.9 mm	
Display medium	Nematic Liquid Crystal, FEM (Field Effect Mode)		
Liquid crystal driving system	Multiplex driving system		
Display system		<ul style="list-style-type: none"> • Time/calendar display <ul style="list-style-type: none"> • Automatic calendar (from 1992 to 2041) • Compass display <ul style="list-style-type: none"> • 16 directions can be indicated. • Selection of the hemisphere of your place • Stopwatch display (Up to 10 hours in 1/100 seconds) <ul style="list-style-type: none"> • Run/rest measurement • Memory recall display <ul style="list-style-type: none"> • Running time/resting time, average speed and elapsed time • Alarm display <ul style="list-style-type: none"> • Daily alarm 	<ul style="list-style-type: none"> • Time/calendar display <ul style="list-style-type: none"> • Automatic calendar (from 1992 to 2041) • Alarm display <ul style="list-style-type: none"> • Daily alarm • Adjustable countdown timer display (Up to 10 hours in seconds) <ul style="list-style-type: none"> • Yacht timer display <ul style="list-style-type: none"> • Selection of the preset timer mode from 3-, 5-, 10- and 15-minute timer modes • Stopwatch/tachymeter display (Up to 10 hours in 1/100 seconds) <ul style="list-style-type: none"> • Memory recall display • Lap time/split time
Additional mechanism	<ul style="list-style-type: none"> • Confirmation sound for watch operation • Battery life indicator 		
Loss/gain	Monthly rate at normal temperature range: less than 20 seconds		
Regulation system	Nil		
Measuring gate by quartz tester	Any gate can be used.		
Battery	SEIKO CR2025, SONY CR2025, Matsushita CR2025 Battery life is approximately 2 years. Voltage: 3.0V		

SEIKO CORPORATION

PARTS CATALOGUE

Cal. W800A, W801A

Disassembling procedures Figs. : ① → ⑬

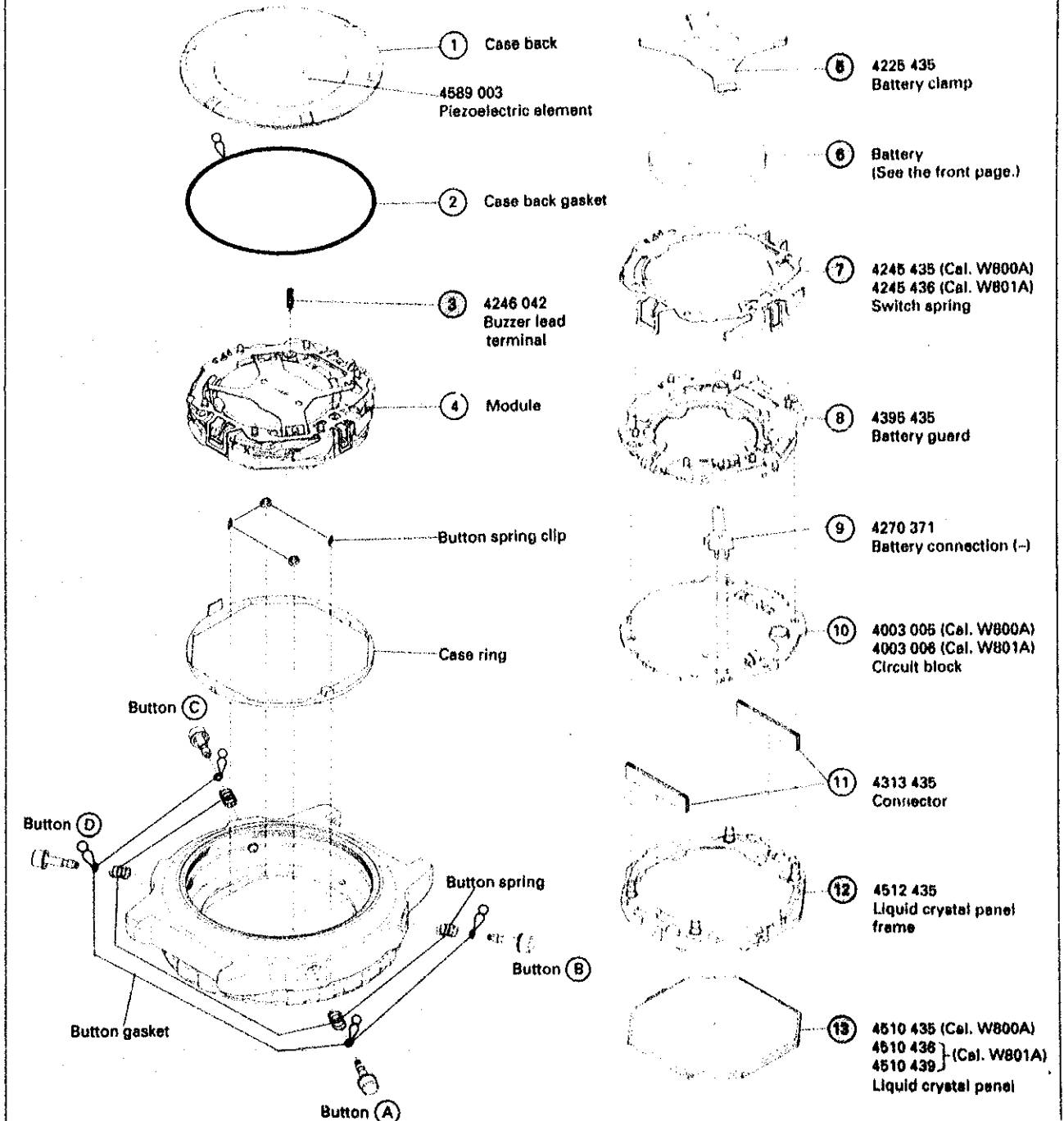
Reassembling procedures Figs. : ⑬ → ①

Lubricating: Types of oil

Oil quantity

∞ Silicone Oil 500,000 c.s.

∞ Normal quantity



*Note: Do not disassemble the buttons and case ring except when they need to be replaced.

➡ Please see the remarks on the following pages.

PARTS CATALOGUE

Cal. W800A, W801A

Remarks:

⑬ Liquid crystal panel 4510 436, 4510 439 (for Cal. W801A)

The type of liquid crystal panel is determined based on the design of cases. Check the case number and refer to "Casing Parts Catalogue" to choose a corresponding liquid crystal panel.

Piezoelectric element 4589 003

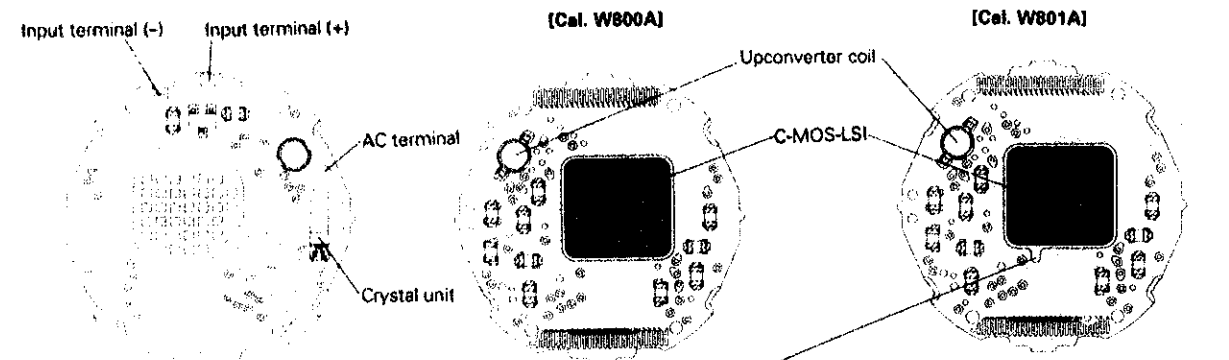
The piezoelectric element, which is adhered to the case back, is available for supply separately from the case back.

TECHNICAL GUIDE

Cal. W800A, W801A

- The explanation here is only for the particular points of Cal. W800A and W801A.
- For the repairing, checking and measuring procedures, refer to the "TECHNICAL GUIDE, GENERAL INSTRUCTIONS".

I. STRUCTURE OF THE CIRCUIT BLOCK

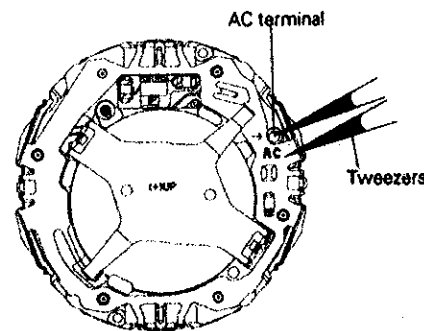


Protrusion*
* The white silicone strap surrounding the C-MOS-LSI for Cal. W801A has a protrusion so that the circuit blocks for Cal. W801A and Cal. W800A can be identified.

II. REMARKS ON INSTALLING THE BATTERY

- After the battery is replaced with a new one, or after the battery is 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 as illustrated at right to reset the circuit.

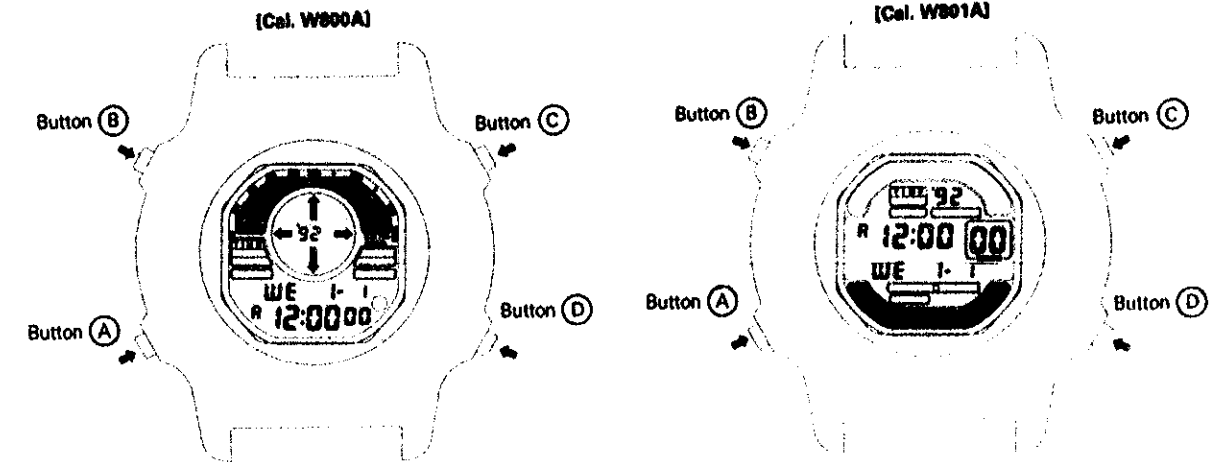
Note: When measuring the current consumption, make sure that the power is supplied externally before resetting the circuit.



TECHNICAL GUIDE

Cal. W800A, W801A

- To reset the circuit with the case back installed, keep buttons "A", "B", "C" and "D" pressed at the same time for 2 to 3 seconds. "12:00 AM WE 1-1 '92" will be shown on the display.



III. REMARKS ON DISASSEMBLING AND REASSEMBLING

③ Buzzer lead terminal

- How to remove

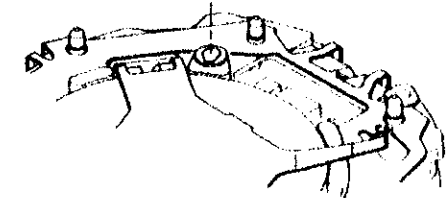
Turn the buzzer lead terminal to release its end portion from the groove of the battery guard, then remove it.

Buzzer lead terminal



- How to install

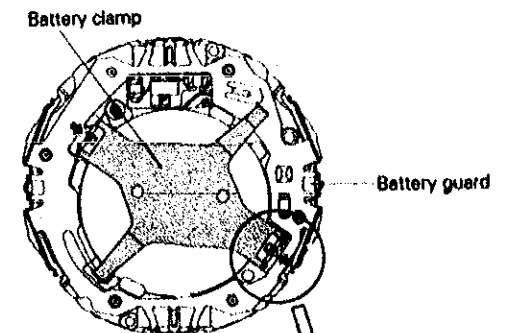
Set the end portion of the buzzer lead terminal into the groove of the battery guard, then turn it to fix it.



⑤ Battery clamp

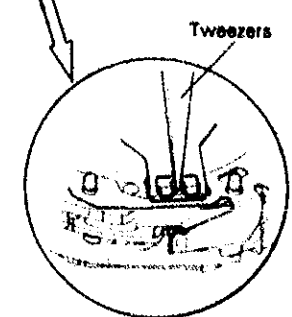
- How to remove

Pry up with the tip of the tweezers the two protrusions of the battery clamp hooked to the notches of the battery guard.



- Checking after installation

After installing the battery clamp, check that the battery guard is securely caught by the two protrusions of the battery clamp.



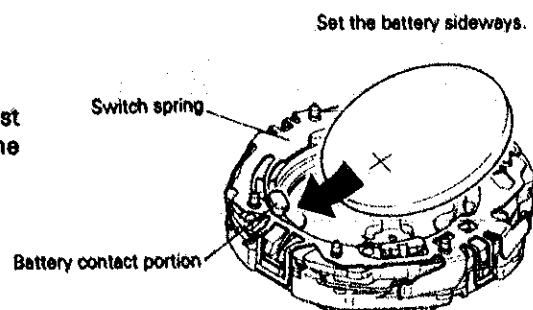
TECHNICAL GUIDE

Cal. W800A, W801A

6 Battery

• How to install

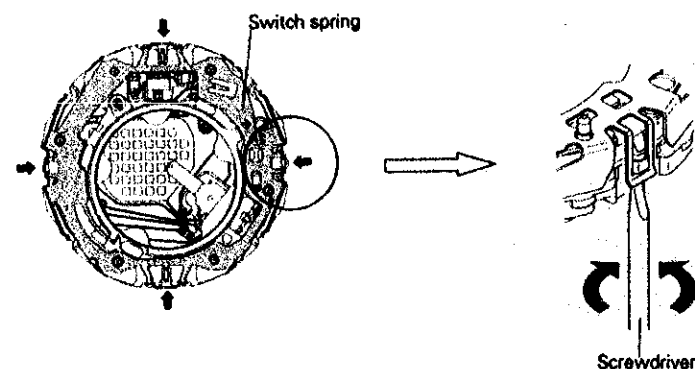
Install the battery sideways as shown in the illustration last it should press down the battery contact portion of the battery guard.



7 Switch spring

• How to remove

Pry up the four hooking portions of the switch spring with the tip of the screwdriver to remove it.

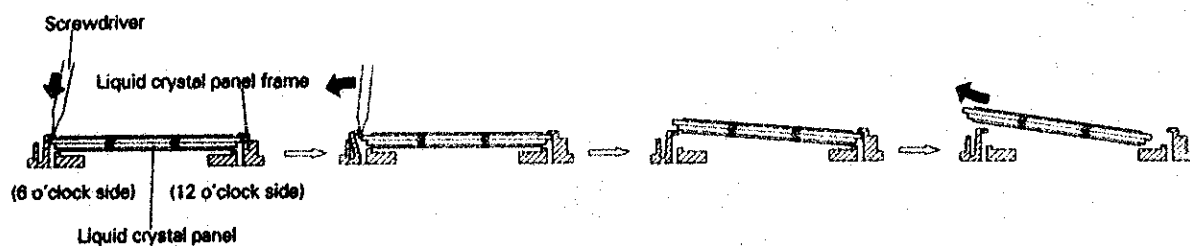


12 Liquid crystal panel frame

13 Liquid crystal panel

• How to remove

Insert the tip of the screwdriver into the hooking portion of the liquid crystal panel frame at the 6 o'clock position, and pry it up in the direction of the arrow as shown in the illustration to remove the liquid crystal panel.



13 Liquid crystal panel 4510 435 (for Cal. W800A)

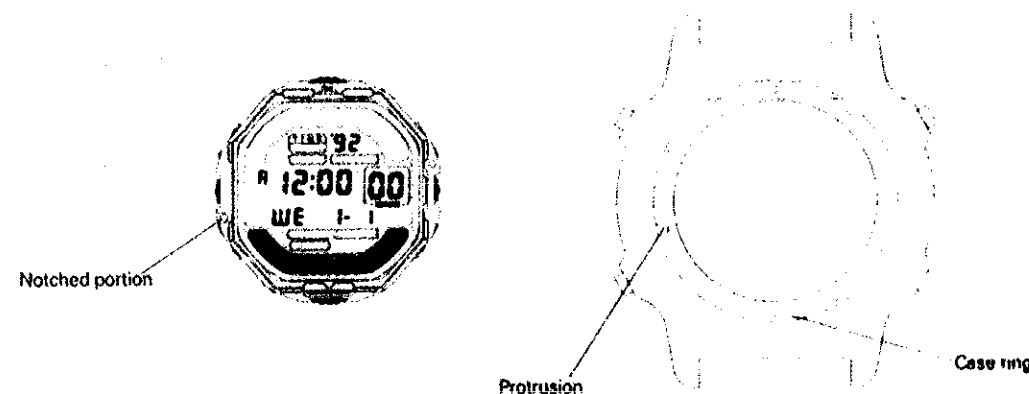
Do not wipe the liquid crystal panel with alcohol, gasoline or other chemicals as the paint on its surface will come off.

TECHNICAL GUIDE

Cal. W800A, W801A

• Remarks on installing the module in the case

To install the module in the case, first align the protrusion of the case ring inside the case with the notched portion of the module, to prevent the module from moving inside the case, and then, press down the module.



IV. VALUE CHECKING

• Time accuracy

To measure accuracy, light up all the segments of the display. To do so, press buttons "C" and "D" at the same time in the TIME/CALENDAR SETTING display. After the measurement, press button "A", "B", "C" or "D" to return to the TIME/CALENDAR display.

• Upconverter coil resistance

125Ω ~ 175Ω

• Current consumption for the whole of the module

- With the circuit reset : less than 5.6μA (Cal. W800A)
less than 6.6μA (Cal. W801A)
- With all the segments lit up : less than 7.7μA (Cal. W800A)
less than 18.7μA (Cal. W801A)

- Notes:**
- Before measuring the current consumption, be sure to reset the circuit or light up all the segments of the display, as the value of the current consumption increases in some modes and no stable measurement can be obtained. In either case, read the minimum value.
 - When measuring the current consumption, take care not to expose the module to the light. Light will increase the current consumption, and as a result, correct measurement cannot be obtained.