

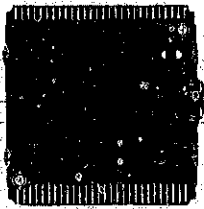
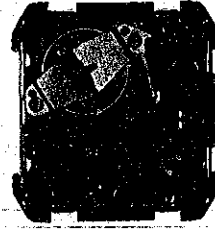
SEIKO

DIGITAL QUARTZ

Cal. G757A

PARTS LIST

Cal. G757A



4001 775



4225 775



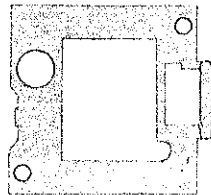
4246 775



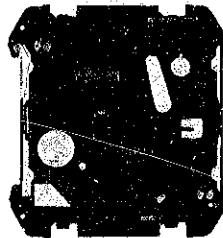
4270 775



4313 775



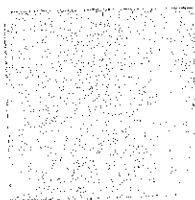
4408 775



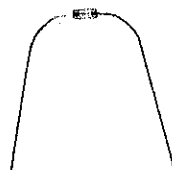
4410 775



☆4510 670



4521 810



4530 649



4540 775



☆Toshiba SR1120W



022 340

3/1

Cal. G757A

Characteristics

Casing diameter: 27.0 x 28.5 mm
 Maximum height: 5.9 mm without battery
 Frequency of quartz crystal oscillator: 32,768 Hz (Hz = Hertz Cycles per second)
 Digital time and calendar display: Hour (24-hour indication or 12-hour indication), minute, second date, "A.M." "P.M." mark (displayed only in the 12-hour indication), and day of the week. (The month is displayed only when the calendar is adjusted.)
 In a graphic display, the second indicator is seen accumulating the elapsed time.
 Dual time display: In addition to the digital time and calendar display ("A.M." "P.M." mark is also displayed.), hour, minute and second in the graphic display.
 Timer display: Can be set to count down any number of minute from 1 to 60 in the graphic display.
 Alarm display: Can be set to operate at any desired hour and minute in the graphic display.
 Stopwatch display: Hour, minute, second and 1/100 second up to 12 hours in the digital display.
 Time signal: It can be set to ring every hour on the hour.
 Display medium: Nematic Liquid Crystal, FE-Mode.
 Regulation system: Trimmer condenser
 Illuminating light: Illuminates the display in the dark by depressing the light button.
 Battery life indicator: All the digits in the display begin flashing.

| PART NO. | PART NAME | PART NO. | PART NAME |
|------------------|-----------------------------|----------|-----------|
| 4001 775 | Circuit block | | |
| 4225 775 | Battery clamp | | |
| 4246 775 | Buzzer lead terminal | | |
| 4270 775 | Battery connection (—) | | |
| 4313 775 | Connector | | |
| 4408 775 | Reflecting mirror spacer | | |
| 4410 775 | Circuit cover | | |
| ☆4510 670 | | | |
| ☆4510 672 | Liquid crystal panel | | |
| ☆4510 674 | | | |
| 4521 310 | Reflecting mirror | | |
| 4530 549 | Bulb | | |
| 4540 775 | Liquid crystal panel holder | | |
| 022 340 | Circuit block screw | | |
| 022 340 | Battery clamp screw | | |
| ☆Toshiba SR1120W | | | |
| ☆U.C.C.391 | Silver oxide battery | | |
| ☆Maxell SR1120W | | | |

Remarks :

Liquid crystal panel

☆4510 670 }
 ☆4510 672 } Be sure that combination between the color of panel cover and liquid crystal panel should be
 ☆4510 674 } matched according to the "SEIKO Quartz Casing Parts List".

Battery

☆Toshiba SR1120W } The substitutive battery might be added to the applied battery in the future.
 ☆U.C.C. 391 } In that case, please refer to separate "BATTERY LIST FOR SEIKO QUARTZ
 ☆Maxell SR1120W } WATCHES".

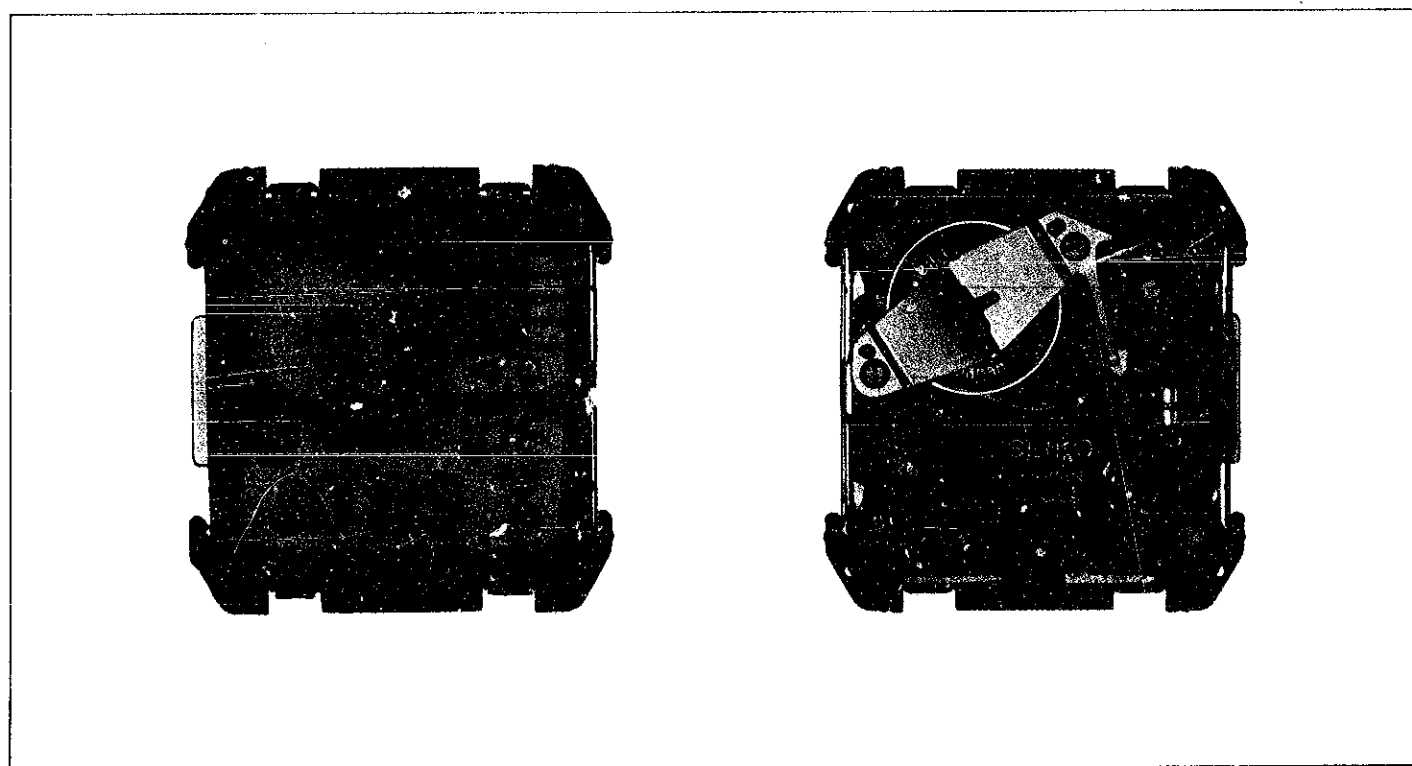
☆ ⇨ Please see remarks.

Part numbers in light letters are not shown in photos.

TECHNICAL GUIDE

SEIKO
QUARTZ

CAL. G757A



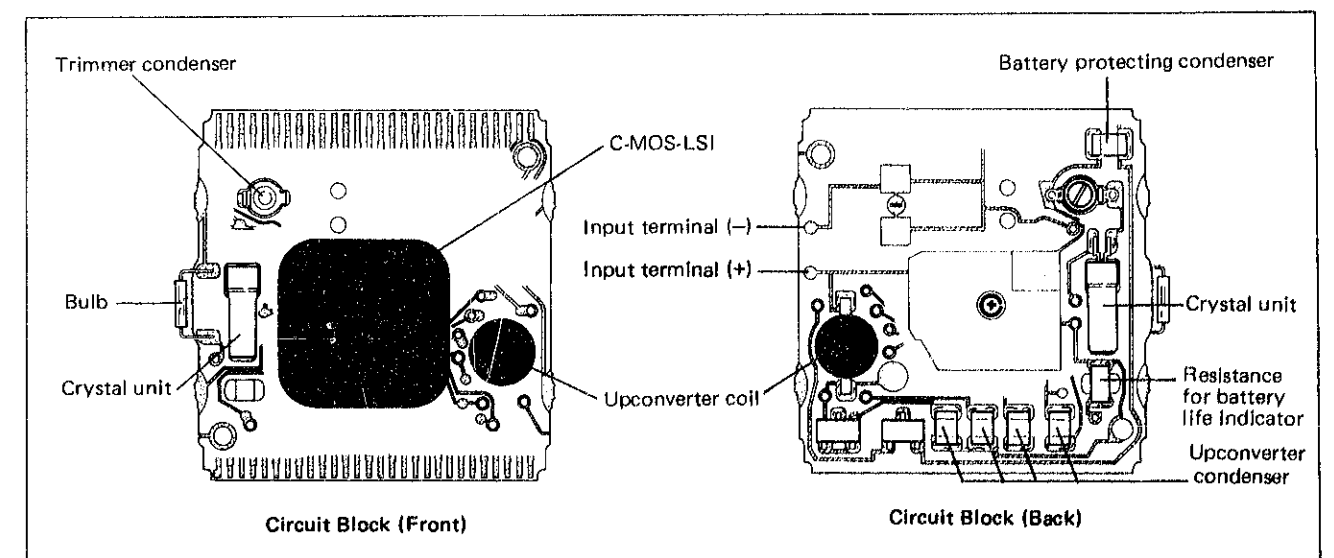
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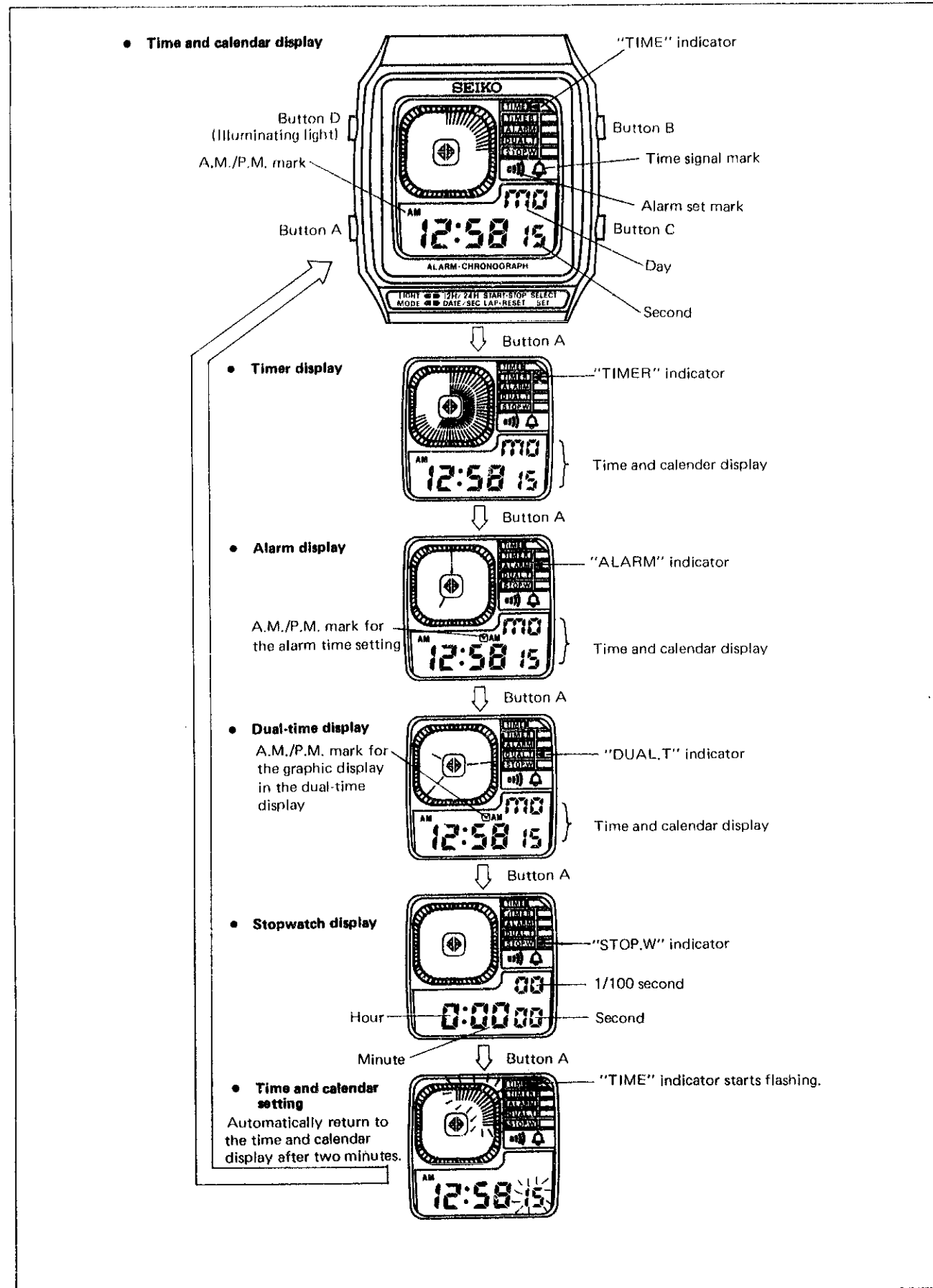
I. SPECIFICATIONS

| Cal. No. | G757A |
|-------------------------------|--|
| Item | |
| 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 function (12 or 24 hour indication) ● Timer function ● Alarm function ● Dual-time function ● Stopwatch function |
| Additional mechanism | <ul style="list-style-type: none"> ● Battery life indicator ● Pattern segment checking system ● Illuminating light |
| Loss/gain | Loss/gain at normal temperature range Monthly rate: less than 15 seconds (Annual rate: less than 3 minutes) |
| Outside diameter | 27.0mm (between 3 o'clock and 9 o'clock sides) 28.5mm (between 6 o'clock and 12 o'clock sides) |
| Height | 5.9mm |
| Regulation system | Trimmer condenser |
| Measuring gate | Any gate is available. |
| Battery | U.C.C.391, Maxell SR1120W, Toshiba SR1120W. Battery life is approximately 2 years. Voltage: 1.55V |

II. STRUCTURE OF CIRCUIT BLOCK



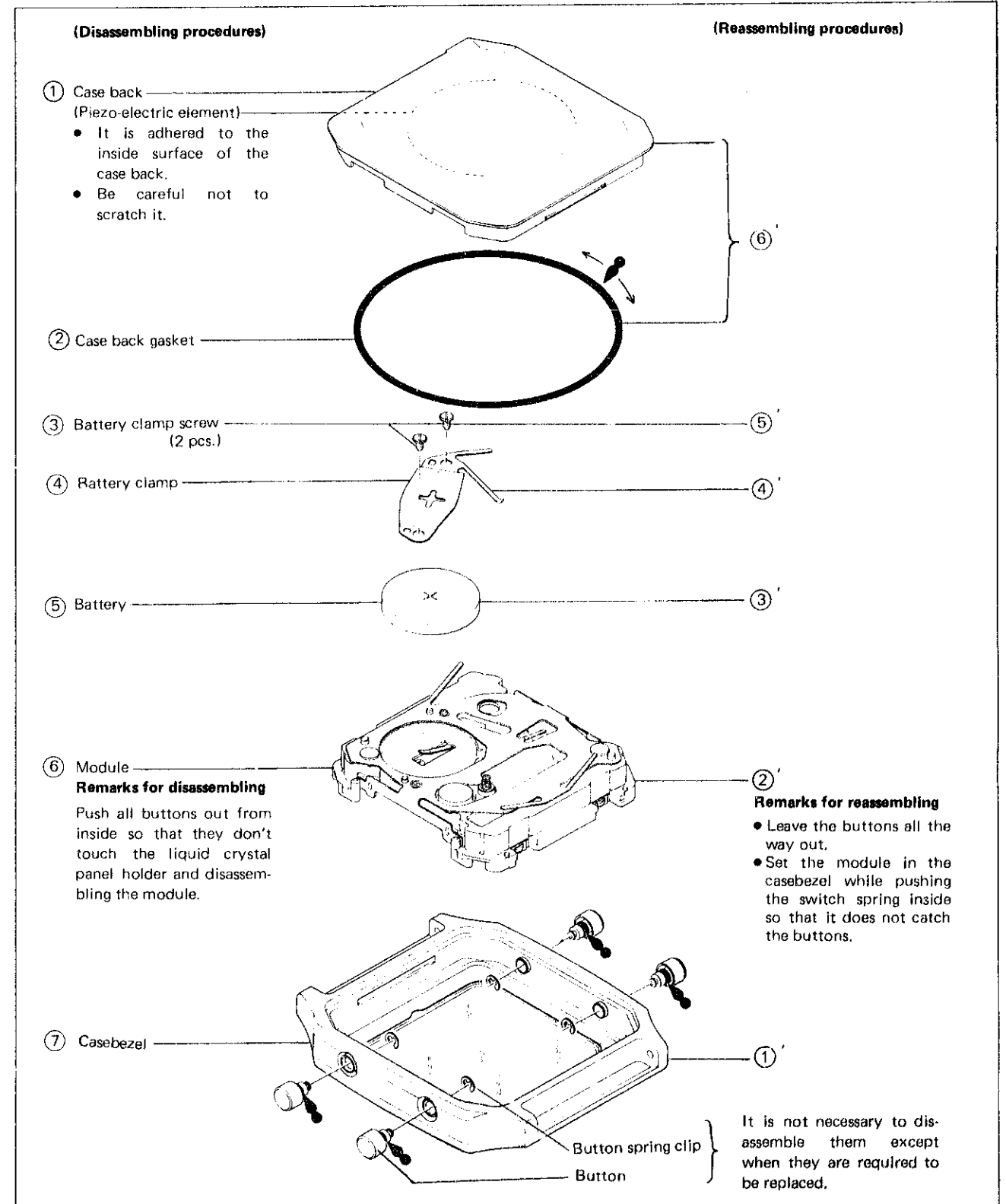
III. DISPLAY FUNCTION



IV. DISASSEMBLING, REASSEMBLING AND LUBRICATING

1. Disassembling, reassembling and the lubricating of the case

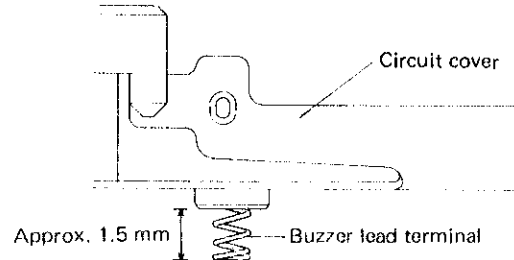
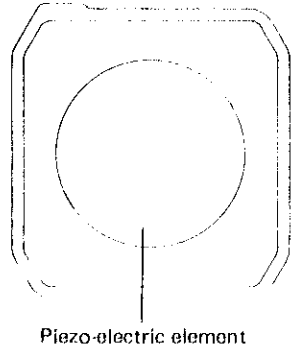
- Disassembling procedures Figs. : ① - ⑦
- Reassembling procedures Figs. : ①' - ⑥'
- Lubricating: **Silicon grease 500,000 c.s.**
Normal quantity



Procedures

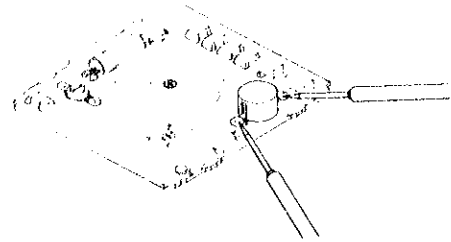
CHECK ALARM CONDITION

- (1) Check to see if there is any contamination on the connecting portion of the piezo-electric element on the case back and the buzzer lead terminal. Also, check to see if there is a bent on the buzzer lead terminal.



- (2) Measure the resistance for the upconverter coil of the circuit block and check if there is a broken wire or a short circuit.

The range to be used for volt-ohm-meter: OHMS R x 1



Apply the probe to the soldered portion of the upconverter coil terminal.

Result:
Less than 10Ω : Normal
More than 10Ω: Defective

CHECK BULB CONDITION

- * How to replace the bulb

Be sure to use the soldering iron of low heat capacity with as fine a tip as possible.

Thickness of the tip: Approx. φ1mm

Heat capacity: 5W - 20W of power consumption

- (1) Remove the defective bulb.
Hold the defective bulb gently with tweezers, apply the soldering iron to bulb lead terminal and lift the lead of the bulb to remove it.
- (2) The lead of the bulb is made somewhat longer. Cut it off properly with nippers.

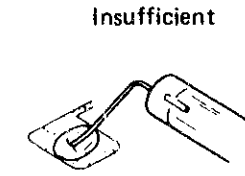
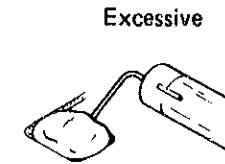
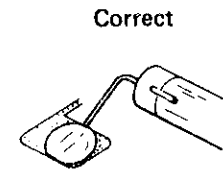
Procedures

- (3) Solder the new bulb.

Note:

If the soldering iron is applied too long, the circuit block may be damaged.

Be sure to apply the soldering iron to such an extent that the solder is melted uniformly at the connection (for approx. 1 second).



- (4) Finally check the bulb condition again.

CHECK FUNCTIONING

All procedures of Disassembling Reassembling Checking and Adjustment are completed.