PARTS CATALOGUE/TECHNICAL GUIDE

Cal. S026A

[SPECIFICATIONS]

Cal. No. Item		S026A
Complete		 (x 0.5)
Module size	Outside diameter	40.0mm between 3 o'clock and 9 o'clock sides 23.6mm between 6 o'clock and 12 o'clock sides
	Casing diameter	—
	Height	4.6mm (7.8mm with battery)
Display medium		Nematic Liquid Crystal, FEM (Field Effect Mode)
Liquid crystal driving system		Multiplex driving system
Display system		• Stopwatch display (up to 24 hours) · Minutes, seconds, and 1/100 seconds up to 30 minutes and hour, minutes, seconds after the first 30 minutes. · Split time measurement • Time/calendar display
Additional mechanism		• Time/calendar 12- or 24-hour indication Month-date/date-month changeover Automatic calendar (except February of leap years) Instant calendar setting devise
Loss/gain		Monthly rate at normal temperature range: less than 30 seconds
Regulation system		Nil
Measuring gate by quartz tester		Any gate can be used.
Battery		SEIKO SR41W, Maxell SR41W, SONY SR41W, EVEREADY 392 Battery life is approximately 2.5 years. Voltage: 1.55 V

HATTORI SEIKO CO., LTD.

Disassembling procedures Figs.: ① → ⑬
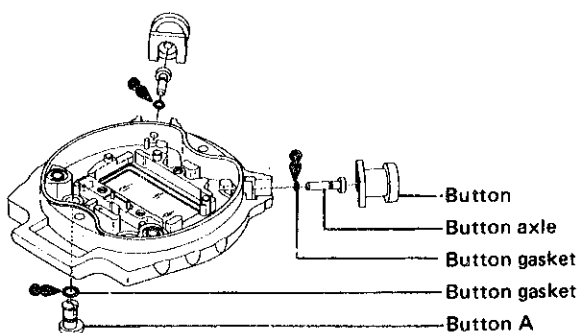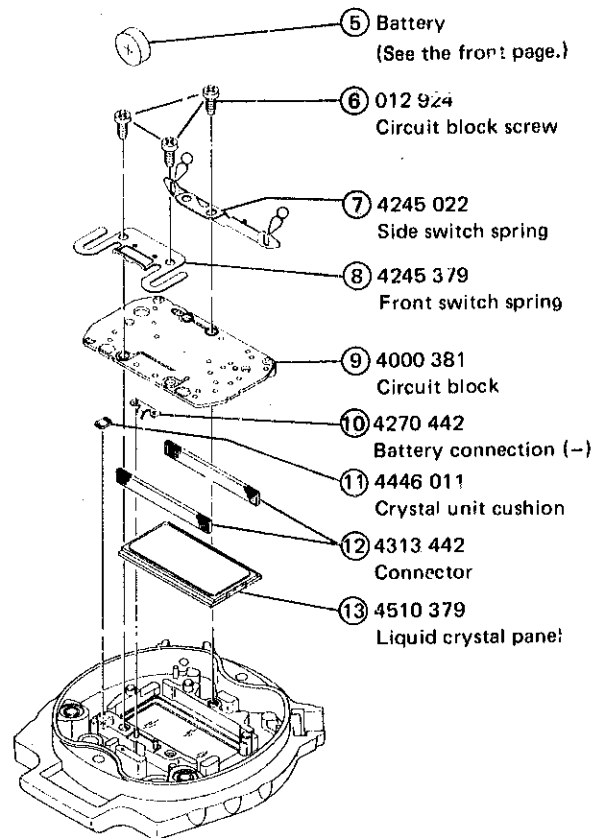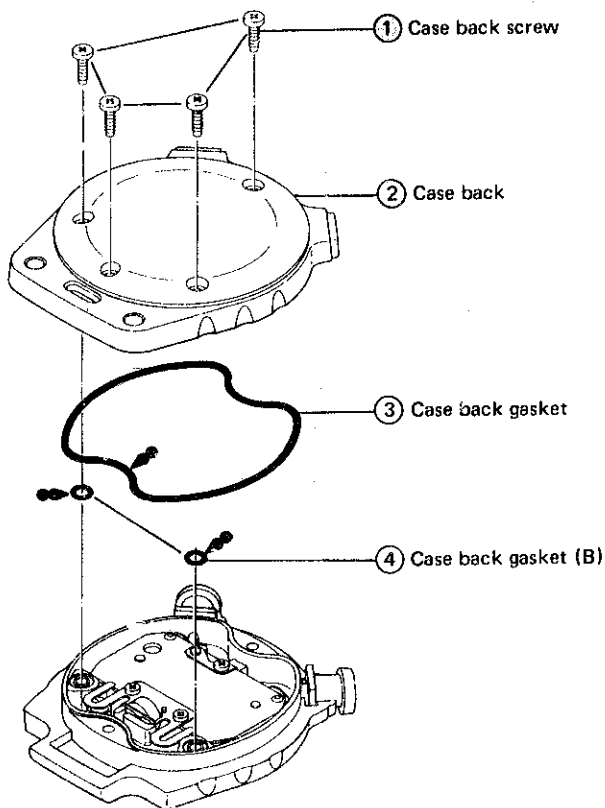
Reassembling procedures Figs.: ⑬ → ①
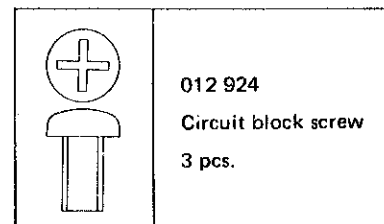
Lubricating: Types of oil

● Silicone oil 500,000 cs

○▷ SEIKO Watch Oil S-6

Oil quantity

○▷ Normal quantity

① Case back screw

② Case back

③ Case back gasket

④ Case back gasket (B)

⑤ Battery
(See the front page.)

⑥ 012 924
Circuit block screw

⑦ 4245 022
Side switch spring

⑧ 4245 379
Front switch spring

⑨ 4000 381
Circuit block

⑩ 4270 442
Battery connection (–)

⑪ 4446 011
Crystal unit cushion

⑫ 4313 442
Connector

⑬ 4510 379
Liquid crystal panel

012 924
Circuit block screw
3 pcs.

Button

Button axle

Button gasket

Button gasket

Button A

Do not disassemble them except when they need to be replaced.

- The glass and panel cover are fixed to the case middle and can not be removed.
 When the glass, panel cover or case back gets damaged, replace the case middle with a new one.

◎ ▷ Please see the remarks on the following pages.

- The explanation here is only for the particular points of Cal. S026A

- For the repairing, checking and measuring procedures, refer to the "TECHNICAL GUIDE, GENERAL IN-STRUCTIONS".

I. STRUCTURE OF THE CIRCUIT BLOCK

C-MOS-LSI

Crystal unit

Input terminal (+)
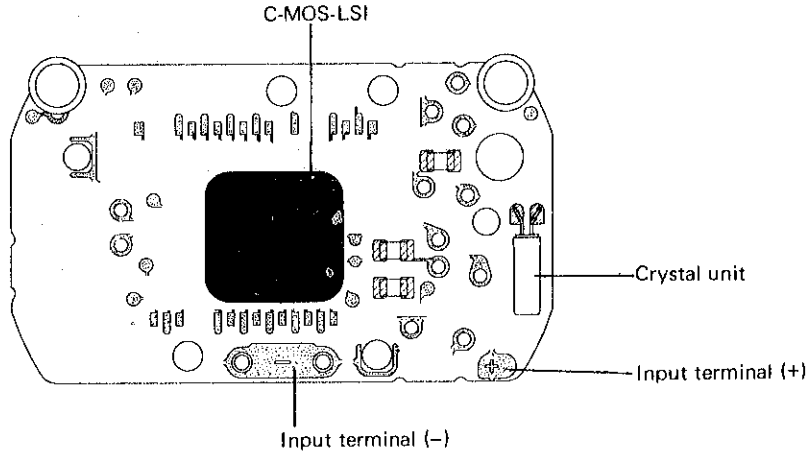
Input terminal (−)

II. RELATIONSHIP BETWEEN THE SEGMENT (LIQUID CRYSTAL PANEL ELECTRODE) AND THE C-MOS-LSI OUTPUT TERMINAL

Colon   AM mark   PM mark

1   2   3   4

AM PM

5

6

Day indicator

SU   MO   TU   WE   TH   FR   SA

TECHNICAL GUIDE

Cal. S026A
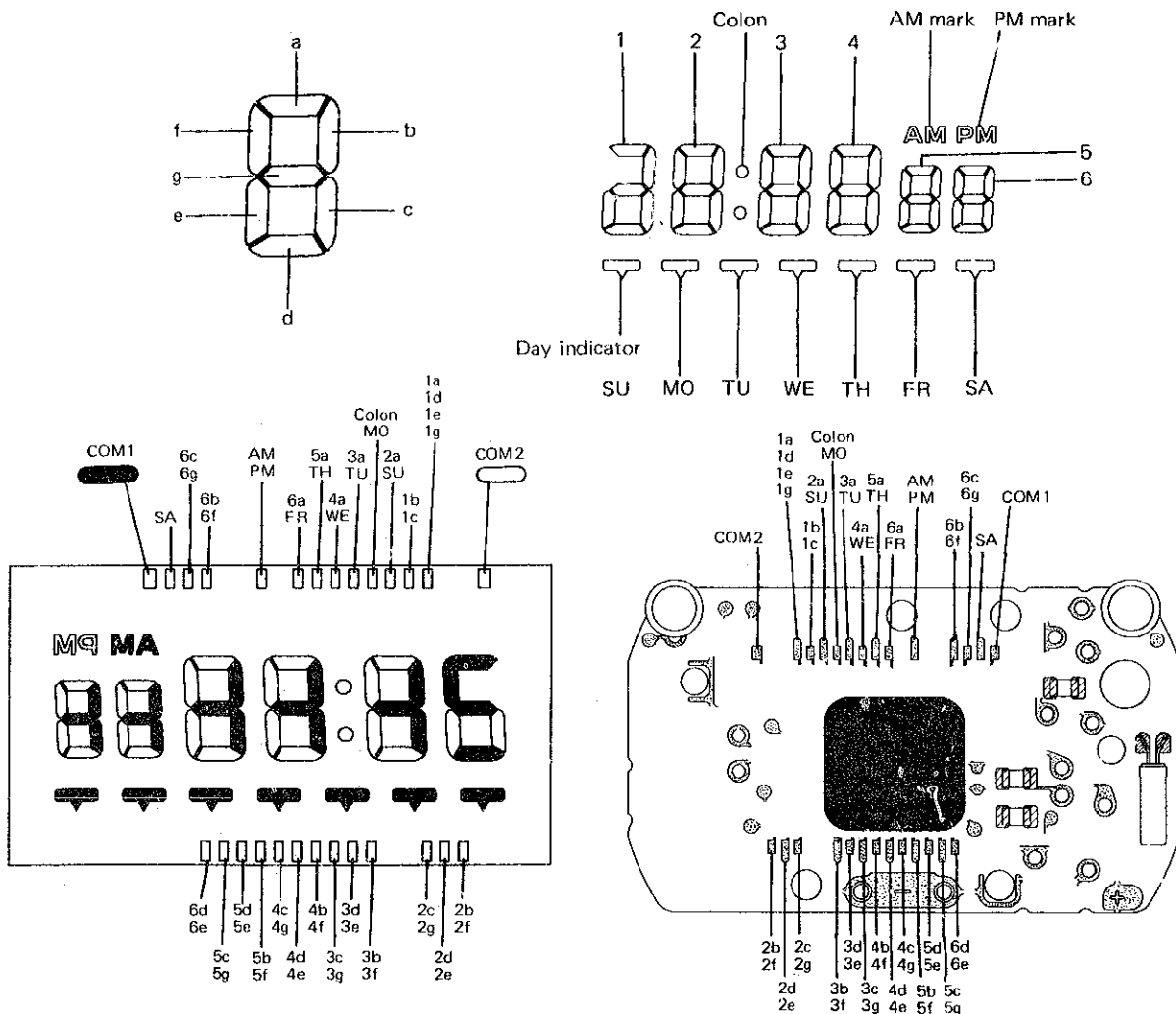
## III. REMARKS ON DISASSEMBLING AND REASSEMBLING

● **How to remove the button**

Before disassembling or reassembling the button por-
tion, remove the side switch spring.

① Press the button against the case middle.

② Lift up the button to disengage it from the case middle.

③ Push out the button tip with tweezers from the inside
of the case middle.

Glass　Case middle　Button　Button axle
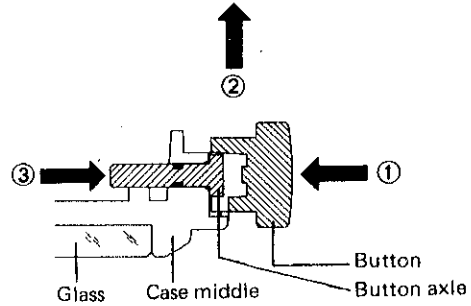
● **How to remove button A**

While pinching the fork end of the front button with
tweezers, push it down.

Button A
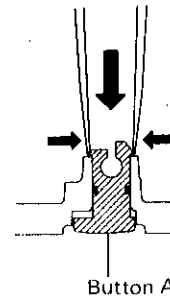
① Case back screw

⑥ Circuit block screw

● **How to install**

Use a Philips screwdriver which fits into the groove of the screw head. Be careful not to tighten the screws
excessively.

Tighten the case back screws following the order of 12H — 6H — 3H — 9H positions.

⑦ Side switch spring

● **How to install**

1) Push the side button axle out.

2) Set one end of the side switch spring be-
tween the end of the button axle and the
circuit block.

3) Set the other end while holding the side
switch spring at the arrow-marked position
with finger.

Button axle

Side switch spring

Circuit block
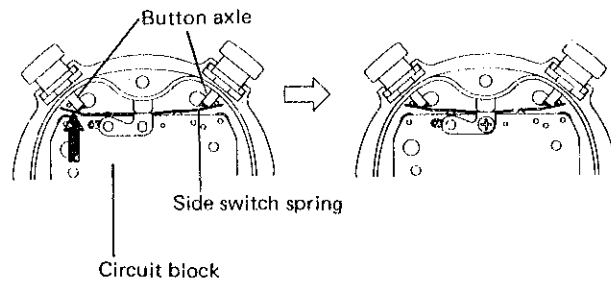
⑩ Battery connection (−)

● **How to install**

Set the battery connection (−) so as not to mis-
take the front for the back.

Battery connection (−)　Correct　Incorrect
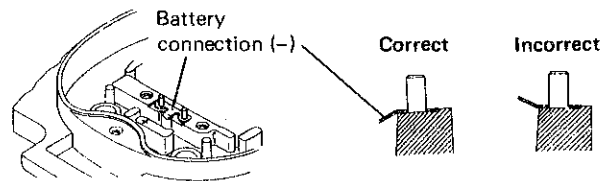
IV. VALUE CHECKING

● **All the segments lit up**

By pressing both buttons B and C at the same time in the time display, all the segments of the display light
up while the buttons are kept pressed.

● **Current consumption**

For the whole of the module :　less than 2.5μA

For the circuit block alone　:　less than 1.5μA

4

87-12　Printed in Japan