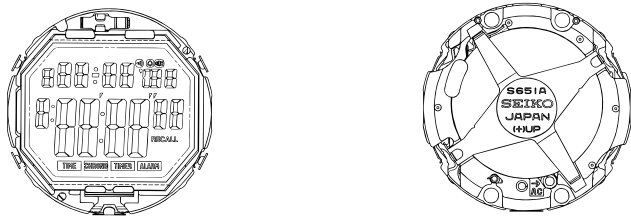


# SERVICE GUIDE CAL. S651A

## 1. SPECIFICATIONS

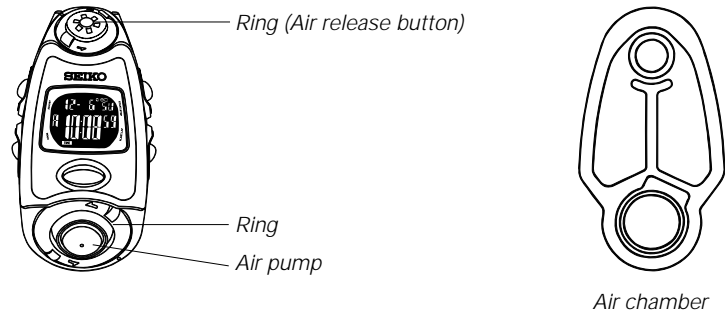
Item		Cal. No.	S651A
Movement			 <p style="text-align: right;">(x 1.0)</p>
Movement size	Outside diameter		ø27.9 mm 27.5 mm between 3 o'clock and 9 o'clock sides 27.7 mm between 6 o'clock and 12 o'clock sides
	Casing diameter		—
	Height		5.9 mm (6.0 mm including the battery portion)
Display medium			Nematic Liquid Crystal, FEM (Field Effect Mode)
Driving system			Multiplex driving system
Display system			Calendar display <ul style="list-style-type: none"> <li>Month, date and day; full auto calendar (from January 1995 to December 2044)</li> </ul> Time display <ul style="list-style-type: none"> <li>Hours, minutes and seconds</li> </ul> Stopwatch display (Up to 10 hours in 1/100 second increments) Memory recall display <ul style="list-style-type: none"> <li>Lap time memory (Up to 8 lap times)</li> </ul> Timer display (Countdown timer in one second decrements) <ul style="list-style-type: none"> <li>Adjustable timer (Up to 9 hours 59 minutes in one minute increments)</li> <li>Preset timer (Selection of the preset time: 3, 5, 10 and 15 minutes)</li> </ul> Alarm display <ul style="list-style-type: none"> <li>Daily alarm</li> </ul>
Additional mechanism			Electroluminescent panel Confirmation sound for button operation Battery life indicator Sound demonstration Auto illumination and auto signal function
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, Maxell CR2025, Eveready ECR2025 Battery life is approximately 2 years. Voltage : 3.0 V

## 2. VALUE CHECKING

- **Current consumption:** less than 5.5  $\mu$ A

## ● PARTS OF THE AIR CHAMBER UNIT

For the parts code, refer to the Casing Parts Catalogue of each model.



### Remarks

- Before removing the air chamber from the watch case or attaching it to the case for such purposes as cleaning and replacement with a new one, be sure to let the air completely out of it.
- When attaching the air chamber to the watch case, be sure to set the protruding portions of both the rings at the 6 and the 12 o'clock sides to the small protrusions on the case to fix the air chamber. Otherwise, the air chamber may come off of the case.

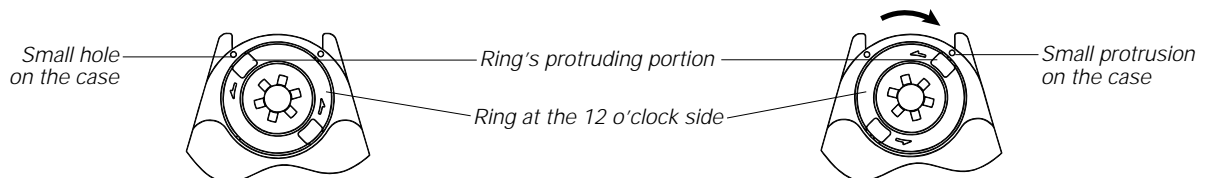
## 1. HOW TO REMOVE / ATTACH THE RING AT THE 12 O'CLOCK SIDE

### ● How to remove

Turn the ring in the direction of the arrow to set its protruding portion to the small hole on the case, and then, remove the ring.

### ● How to attach

To fix the ring, set the protruding portion of the ring to the small hole on the case, and turn the ring in the opposite direction to the arrow until the ring's protruding portion aligns with the small protrusion on the case.



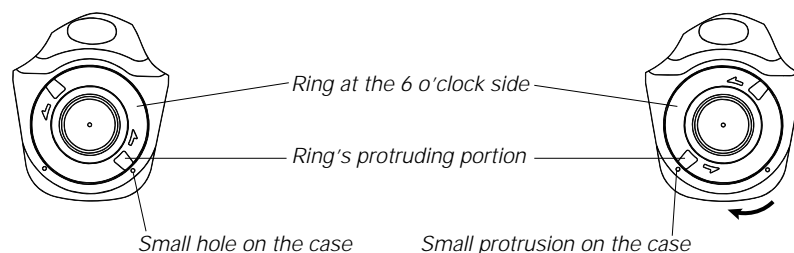
## 2. HOW TO REMOVE / ATTACH THE RING AT THE 6 O'CLOCK SIDE

### ● How to remove

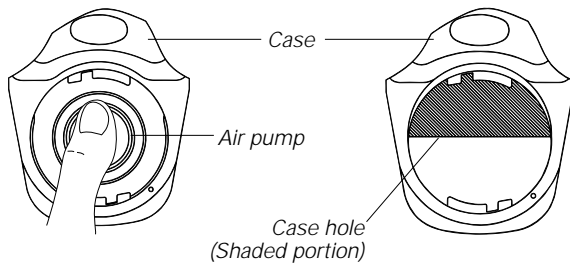
Turn the ring in the direction of the arrow to set its protruding portion to the small hole on the case, and then, remove the ring.

### ● How to attach

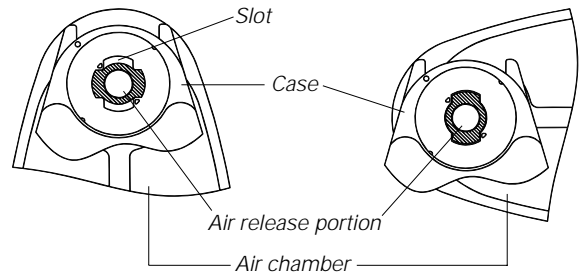
Set the protruding portion of the ring to the small hole on the case, and turn the ring in the opposite direction to the arrow until the ring's protruding portion aligns with the small protrusion of the case. The ring will fix into place with a click.



### 3. HOW TO REMOVE / ATTACH THE AIR CHAMBER



[ 6 o'clock side ]



[ 12 o'clock side ]

#### ● How to remove

- ① While squeezing the air pump at the 6 o'clock side with a finger, pull the air chamber from the case back side through the case hole (the shaded portion in the illustration) to remove it from the case.

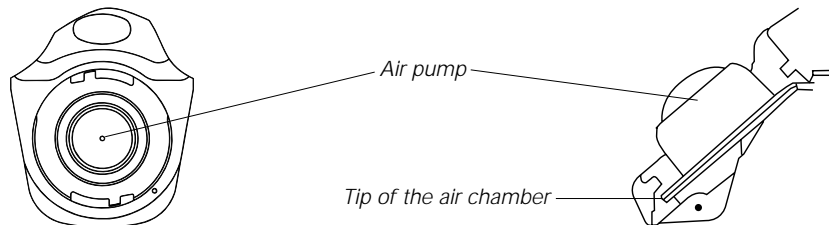
- ② Turn the air release portion at the 12 o'clock side 90° counterclockwise to fit it into the slot. Then, pull it out from the case.

#### ● How to attach

- ① Set the air release portion at the 12 o'clock side to the slot, and turn it 90° to fix it to the case.

- ② While squeezing the air pump, put it through the case hole at the 6 o'clock side (the shaded portion in the illustration).

\* Check that the tip of the air chamber is set securely in position as illustrated below. Otherwise, the ring may come off while the watch is being worn on the wrist.



[Setting position of the tip of the air chamber at the 6 o'clock side]

