



# TECHNICAL GUIDE & PARTS CATALOGUE Cal.VD59C

## ANALOGUE QUARTZ



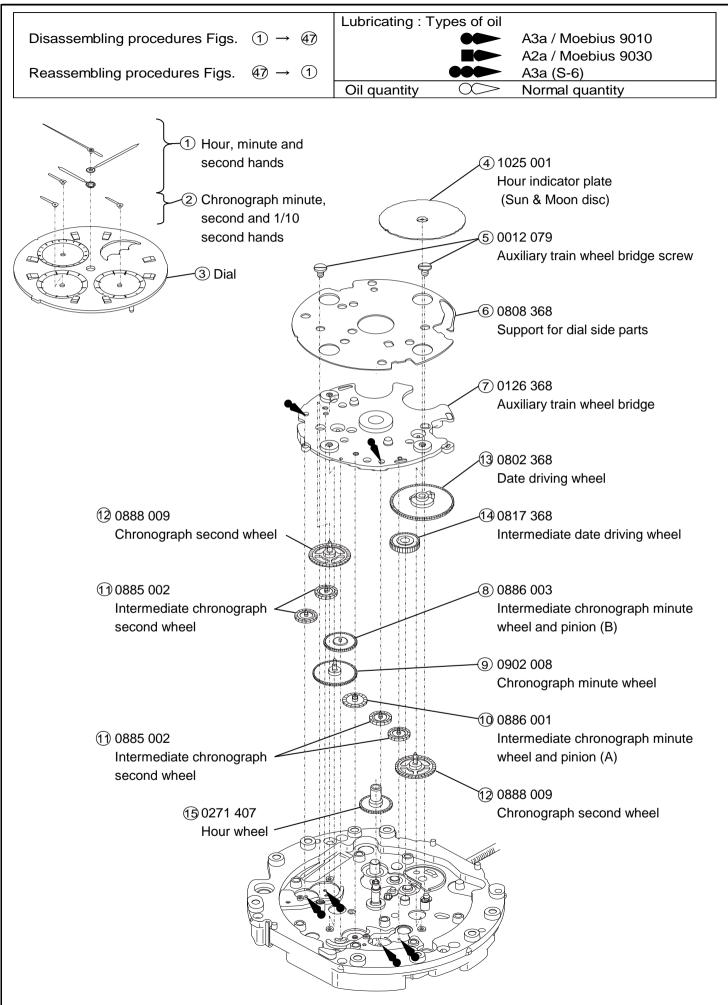
Version-01 Cal.VD59C

| Item                            | Cal. No.         | VD59C   |
|---------------------------------|------------------|---|
| Movement                        |                  | ND JEVELS<br>ND JEVELS<br>VUSSC 2<br>(+)UP<br>O O O O O O O O O O O O O O O O O O O   |
| Movement<br>size                | Outside diameter | (φD) (3H - 9H) (12H - 6H)<br>φ29.50 mm × 26.00 mm × —   |
|                                 | Casing diameter  | (φD) (3H - 9H) (12H - 6H)<br>φ28.80 mm × — × —  |
|                                 | Total height     | 4.57 mm   |
| Time indication                 |                  | 3 Hands (Hour, Minute, Second)<br>Chronograph (Minute, Second, 1/10 second)<br>Sun & Moon indicator disc  |
| Driving system                  |                  | Two pole stepping motor<br>Step motor 3 pieces  |
| Additional mechanism            |                  | Electronic circuit reset switch<br>Second setting device<br>[ Time ]<br>Indicated by the Hour, Minute, Second and Sun & Moon disc<br>[ Stop watch ]<br>Up to 1 minute in 1/10 second (2 seconds per round)<br>Up to 60 minutes in 1 second split time |
| Antimagnetic                    |                  | ≧ 1600 A/m  |
| Accuracy                        |                  | Less than $\pm$ 20 seconds : Monthly rate at normal temperature range   |
| Battery                         |                  | SR920SW (SEIZAIKEN) Silver oxide battery<br>φ9.5 × t 2.0 mm<br>Battery life is approximately 3 years  |
| Measuring gate by quartz tester |                  | Use 10 second gate<br>*Set the winding stem with crown at the normal position   |
| Jewels                          |                  | 0 Jewel   |



### PARTS CATALOGUE

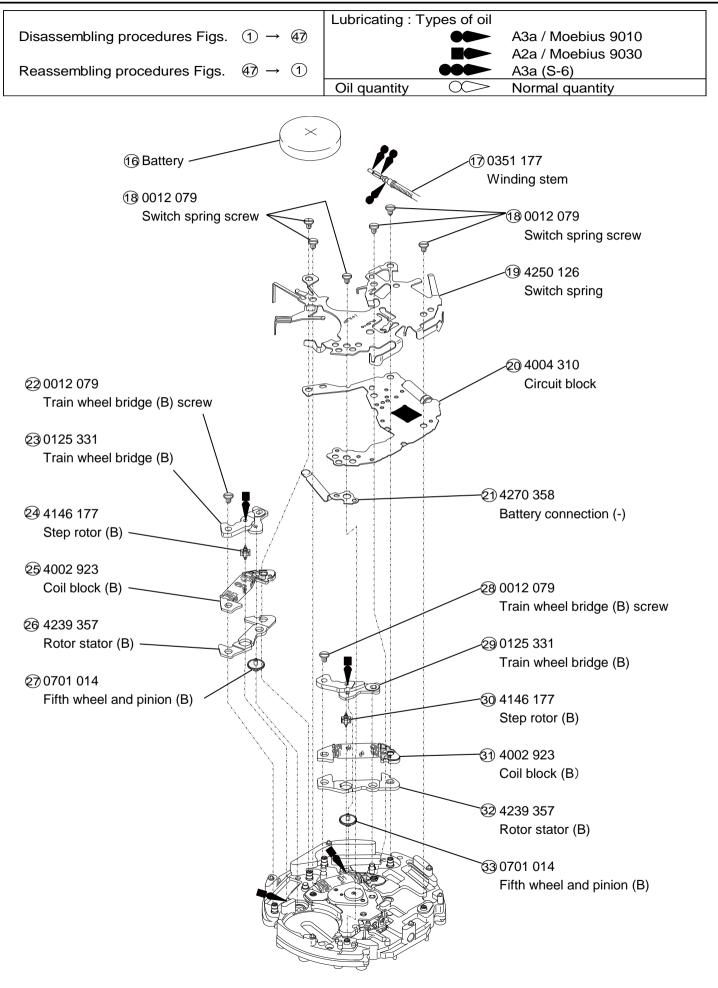
Version-02 Cal.VD59C





### PARTS CATALOGUE

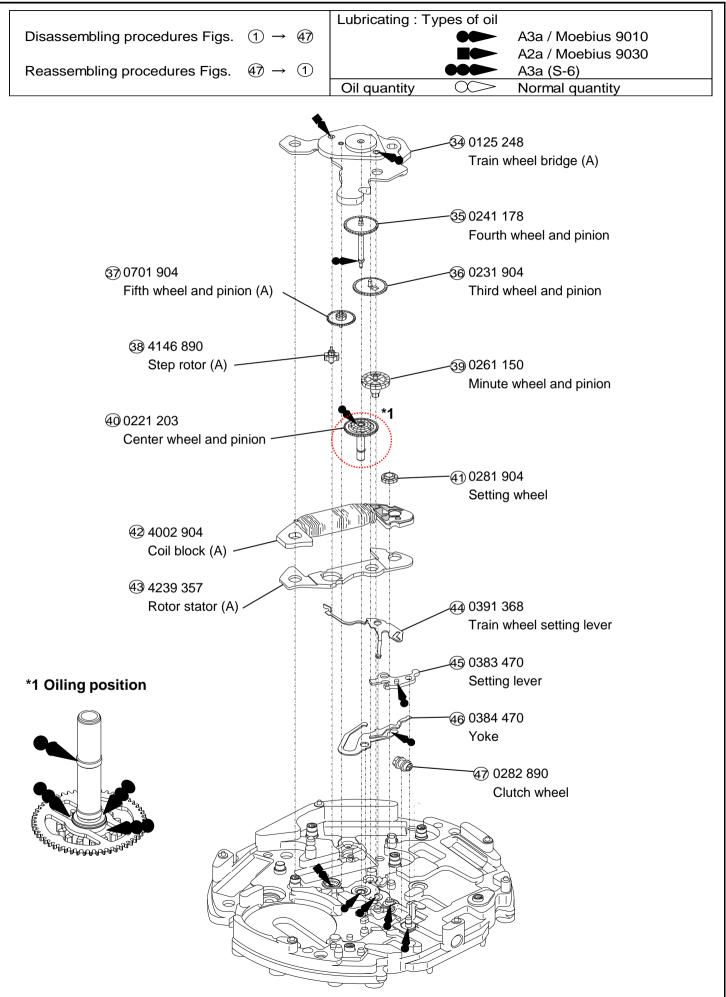
Version-02 Cal.VD59C





### PARTS CATALOGUE

Version-02 Cal.VD59C



### **TECHNICAL GUIDE**



•The explanation here is only for the particular point of Cal.VD59C

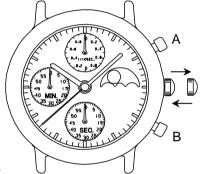
**1.REMARKS ON INSTALLING THE BATTERY** 

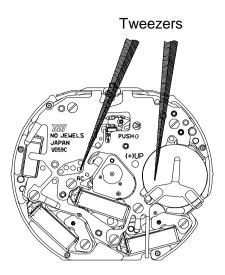
 After the battery is replaced with a new one or after the battery is reinstalled following the repairing procedures, Be sure to touch the short-circuit the AC terminal of circuit block and the switch spring with conductive tweezers to reset the circuit as illustrated at right.

2) When the battery replaced with a new one, the time information stored in the built-in IC and the time indicated by the stopwatch hands do not correspond with each other. Reset the stopwatch hands to "0" position following the procedure below. If the stopwatch hands should move improperly, also follow the same procedure.

#### ORDER

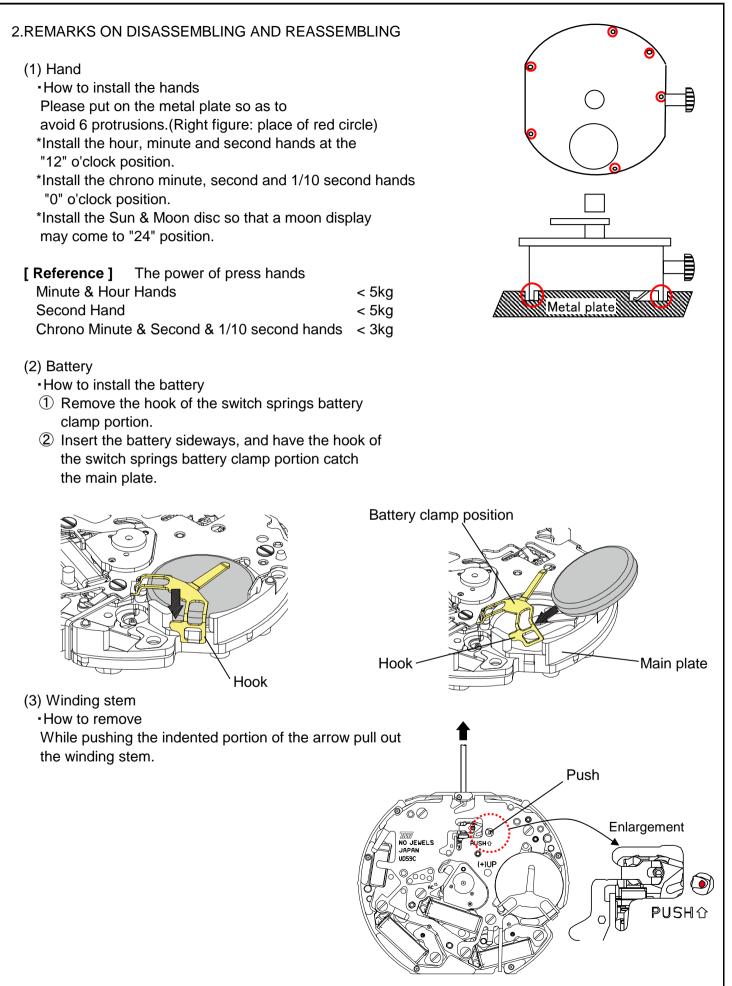
- ① Pull out the crown.
- ② Keep buttons "A" and "B" pressed at the same time for 2 seconds, and then, release the buttons. The stopwatch second hand move back and returned to where it was.
- ③ Press button "A" or "B" to reset the stopwatch second and minute hands to "0" position.
  - \* By pressing button "A", set the stopwatch 1/10 second hand.
  - \* By pressing button "B", set the stopwatch second and minute hands.
- ④ Turn the crown to set the hour, minute and 24 hour hands to the desired time, and push the crown back to the normal position.



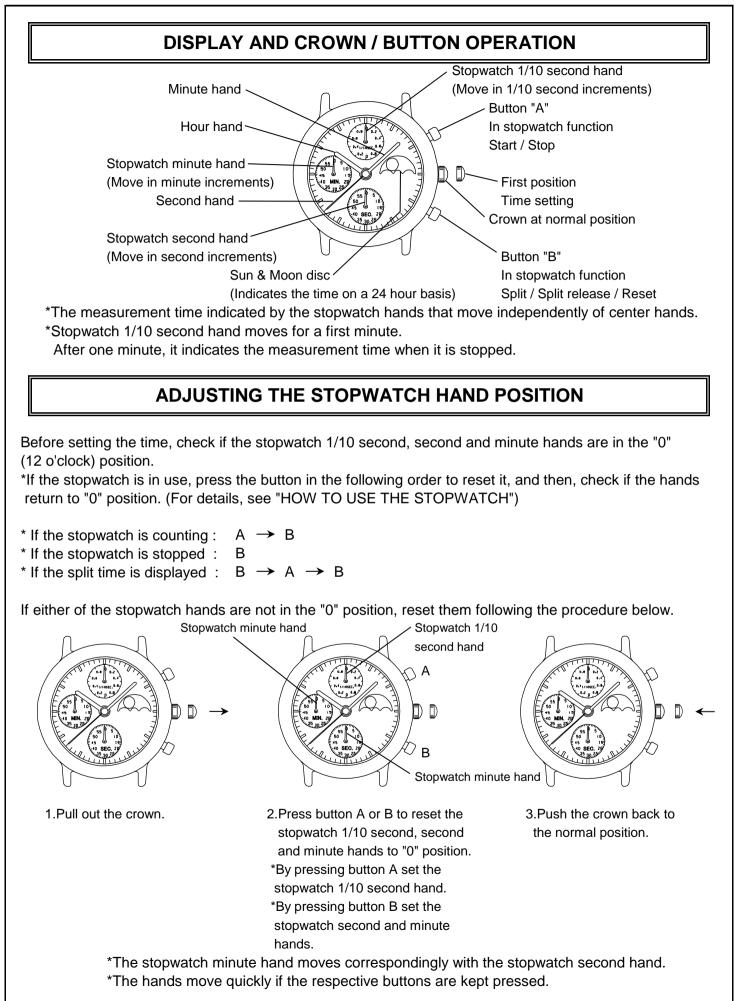




### **TECHNICAL GUIDE**



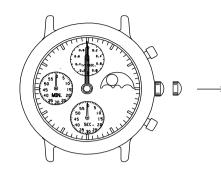




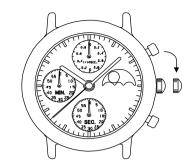


### **OPERATION**

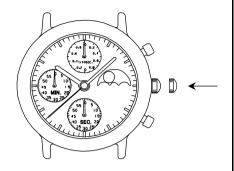
#### TIME SETTING



- 1.Pull out the crown to the second hand is at the 12 o'clock position. The second hand will stop on the spot.
- \* Do not press any button. Otherwise, the chronograph hands will move.



2. Turn the crown to set the hour, minute hands to the desired time.
As the hour hand moves, the Sun & Moon disc also moves correspondingly.
When setting the hour hand, check that the Sun & Moon disc is set property.
(Check that AM / PM is set correctly)



3.Push the crown back in to the normal position in accordance with a time signal.



### **OPERATION**

#### HOW TO USE THE STOPWATCH

•The measurement time is indicated by the stopwatch hands that move independently of the center hands.

•The stopwatch can measure up to 60 minutes in 1/10 second.

