



TECHNICAL GUIDE & **PARTS CATALOGUE** Cal.VD67A ANALOGUE QUARTZ



PARTS CATALOGUE / TECHNICAL GUIDE

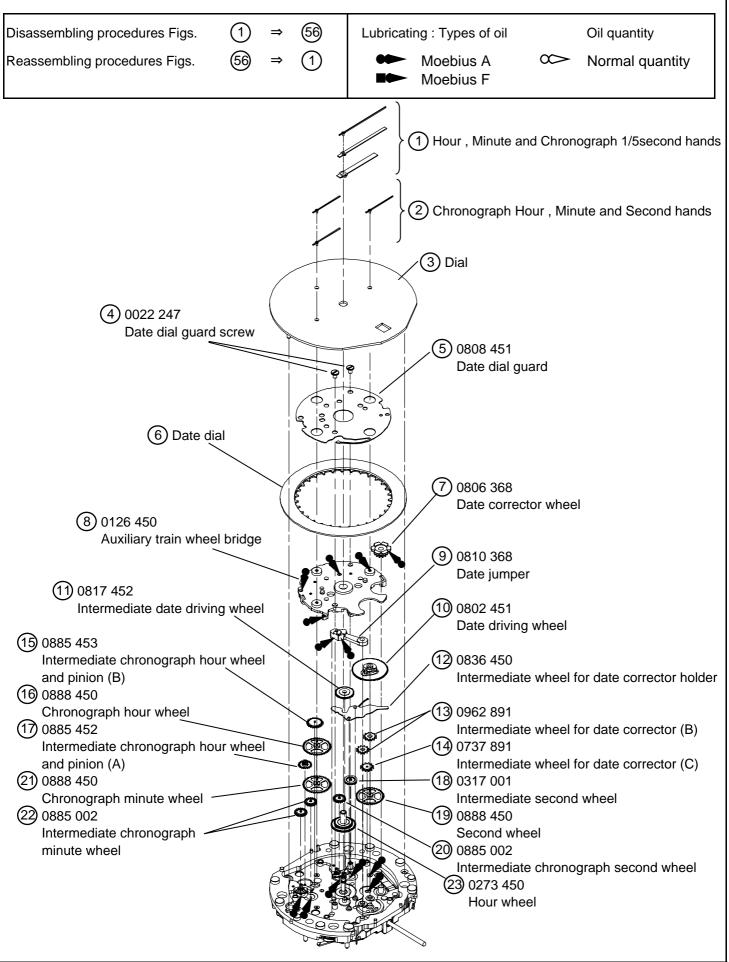
Cal.VD67A

[SPECIFICAT	Cal. No.	√ersion-0	
Item		VD67A	
Movement			
Movement size	Outside diameter	Φ29.50 mm(12H - 6H)× 26.00 mm	
	Casing diameter	Φ28.80 mm(12H - 6H)	
	Total height	4.57 mm	
Time indication		2 hands (Hour , Minute) Small second hand Chronograph (Hour , Minute , 1/5 center second) Calendar	
Driving System		Two pole stepping motor Step motor 3 pieces	
Additional mechanism		Electronic circuit reset switch Second setting device [Time] Indicated by the hour, minute, second and calendar [Stopwatch] Up to 12 hour in 1/5 second (60 second per round)	
Antimagnetic		≧ 1600 A/m	
Accuracy		Less than ±20 seconds : Monthly rate at normal temperature range	
Battery		SR920SW (SEIZAIKEN) Silver oxide battery Φ 9.5 x t2.0 mm Battery life is approximately 2 years	
Measuring gate by quartz tester		Use 10-second gate *Set the winding stem with crown at the normal position	
Jewels		0 Jewel	
Regular hands unbalance Small second Minute Hour 1/5 Center chrono second		Less than 0.05 µN ⋅mm (5mg ⋅mm) Less than 0.60 µN ⋅mm (60mg ⋅mm) Less than 0.50 µN ⋅mm (50mg ⋅mm) Less than 0.09 µN ⋅mm (9mg ⋅mm)	
Chrono minute / hour		Less than 0.05 µN·mm (5mg·mm)	



PARTS CATALOGUE

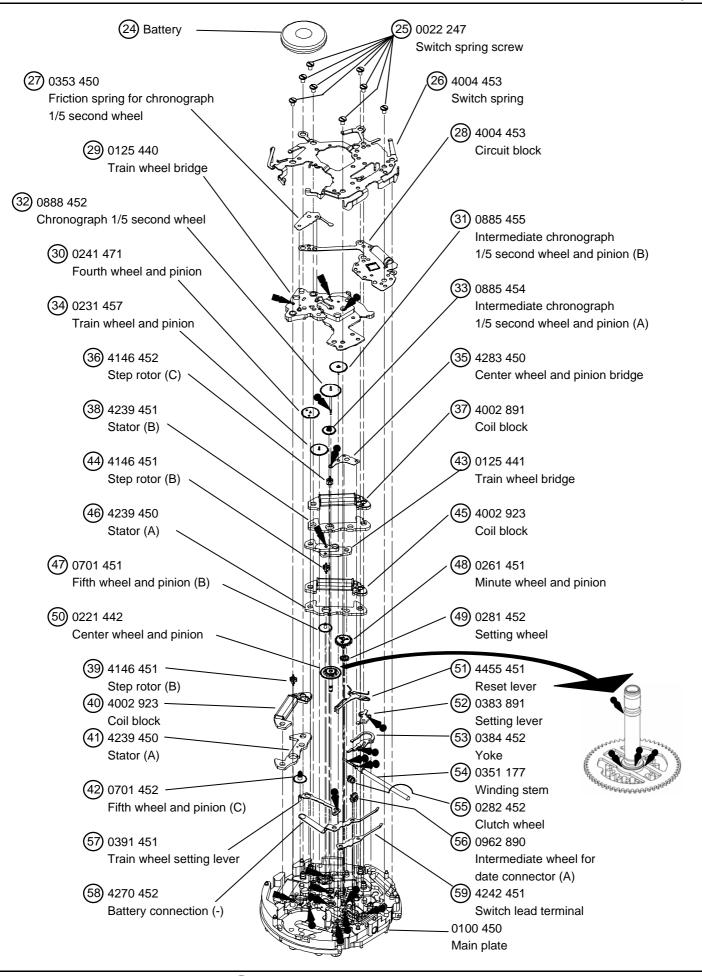
Version-02 VD67A





PARTS CATALOGUE

Version-02 VD67A



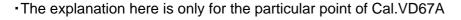


Remarks:

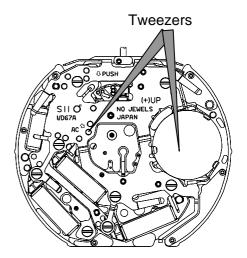
6 Date dial

Part code	Position of crown	Position of date frame	Color of figure	Color of background
0878 220	3H	3H	Black	White
0878 221	3H	3H	White	Black
0878 218	3H	3H	Silver	Black

TECHNICAL GUIDE



- 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 the circuit block and the switch spring with conductive tweezers to reset the circuit as illustrated at right.

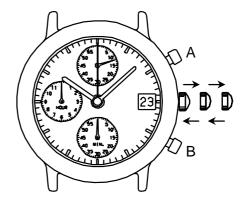


When the battery replaced with a new one, the time information stored in the built-in IC and the time indicated by the stopwatch hands do not correspond with each other.
Reset the stopwatch hands to "0" position following the procedure below.
If the stopwatch hands should move improperly, also follow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

ORDER

(1) Pull the crown out to the second click.

- (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 1/5 second hand.
 - * By pressing button "B", set the stopwatch minute and hour hands.
- (4) Turn the crown to set the hour, and minute hands to the desired time, and push the crown back in to the normal position.



When the crown is pulled to the 2nd position, pushing the B button, adjustment of minute and second hands position can be performed. *By pressing button "A", the hands move counterclockwise. *By pressing button "B", the hands move clockwise.



TECHNICAL GUIDE

1. REMARKS ON INSTALLING THE BATTERY

(1) HAND

·How to install the hands

Place the movement directly on a flat metal plate or the like and press in the hands.

- * Install the hour, minute and 1/5second hand at the "12" o'clock position.
- * Install the chrono minute and Hour hands at the "0" position.

[Reference] The power of press hands

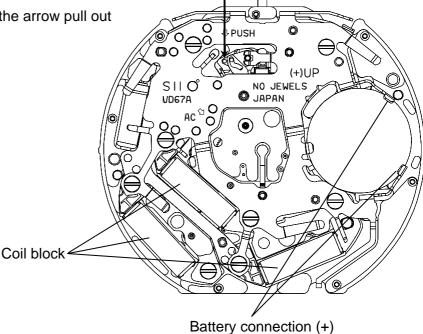
Minute & Hour hands	< 5kg
Small second hand	< 3kg
1/5 second hand	< 3kg
Chrono minute & hour	< 3kg

(2) Battery

•How to install Insert the battery aslant in the direction shown by the arrow. Check the battery connection (+) securely touches the side face of the battery.

- (3) Winding stem
 - How to remove

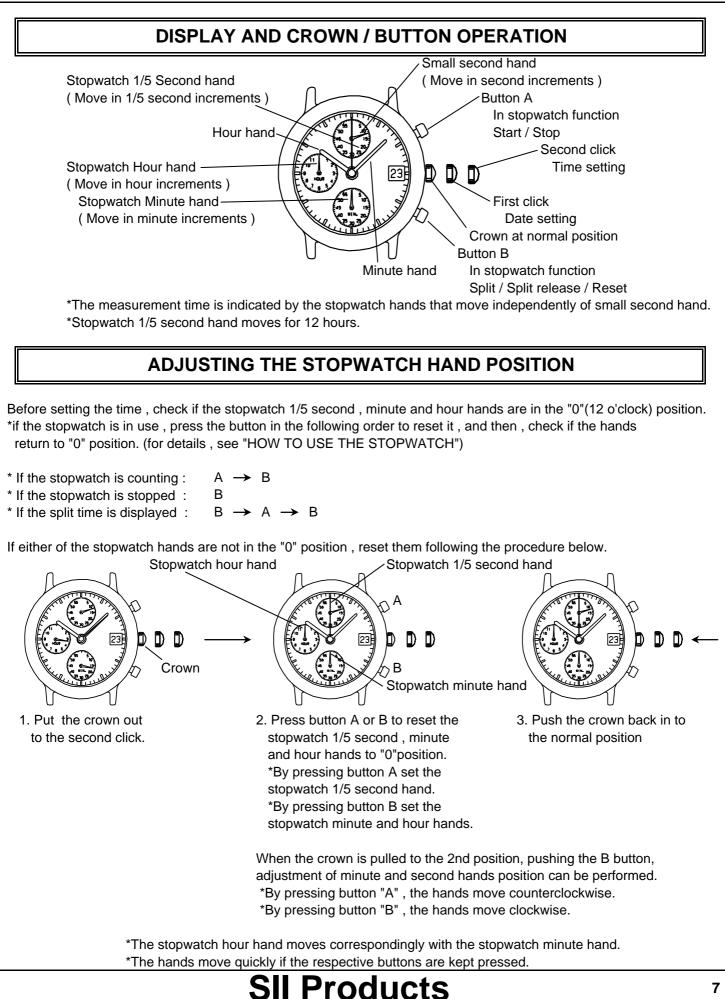
While pushing the indented portion of the arrow pull out the winding stem.



Push

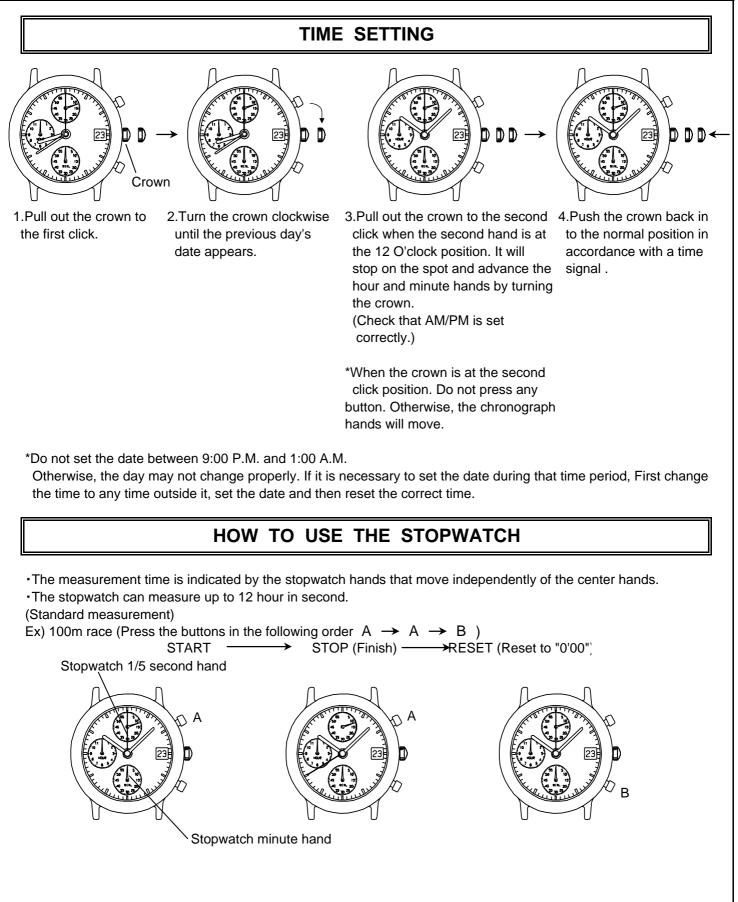


OPERATION





OPERATION

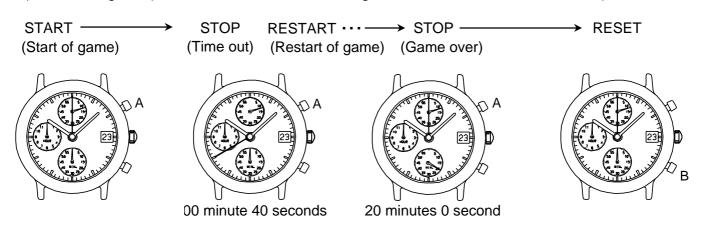




OPERATION

(Accumulated elapsed time measurement)

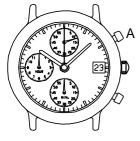
Ex) Basketball game (Press the buttons in the following ord $A \rightarrow A / A \cdots \rightarrow A \rightarrow B$)

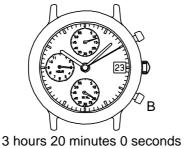


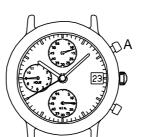
*Restart and stop of the stopwatch can be repeated as many times as necessary by pressing button A

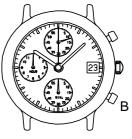
(Split time measurement)

Ex) 5,000m race (Press the buttons in the following ord $A \rightarrow B/B \dots \rightarrow A \rightarrow B$) START \longrightarrow SPLIT / SPLIT RELEASE $\dots \rightarrow$ STOP \longrightarrow RESET









9 hours 15 minutes 40 seconds

* Measurement and release of the split time can be repeated as many times as necessary by pressing button B.