

**TECHNICAL GUIDE & PARTS CATALOGUE Cal.VK Series

ANALOGUE QUARTZ



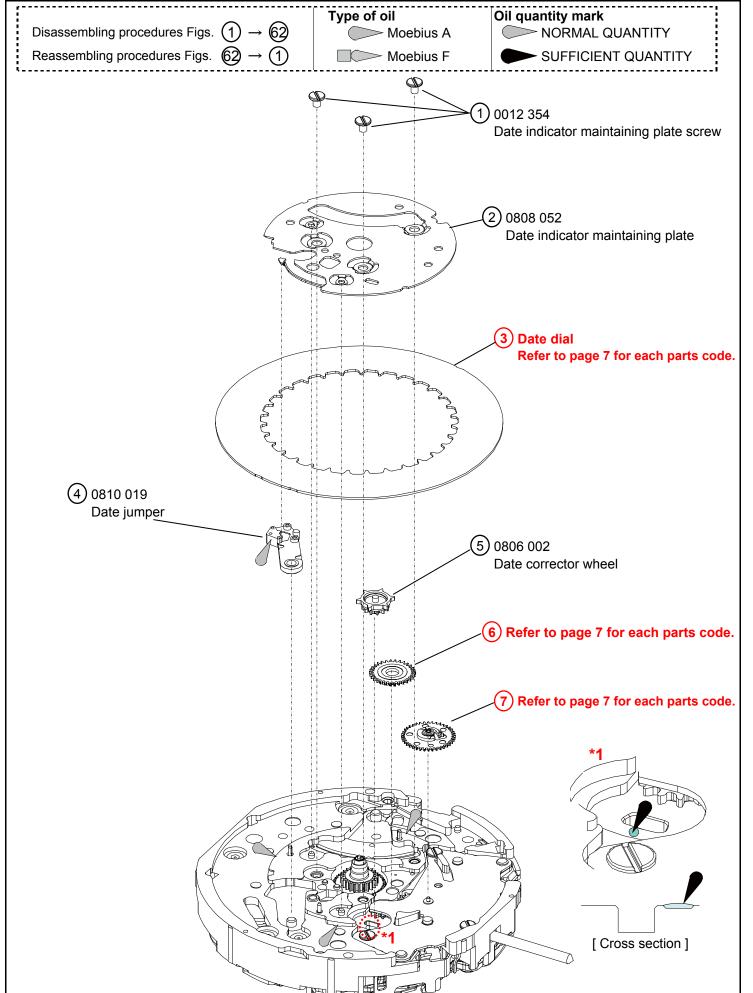
PARTS CATALOGUE / TECHNICAL GUIDE

Cal. VK Series

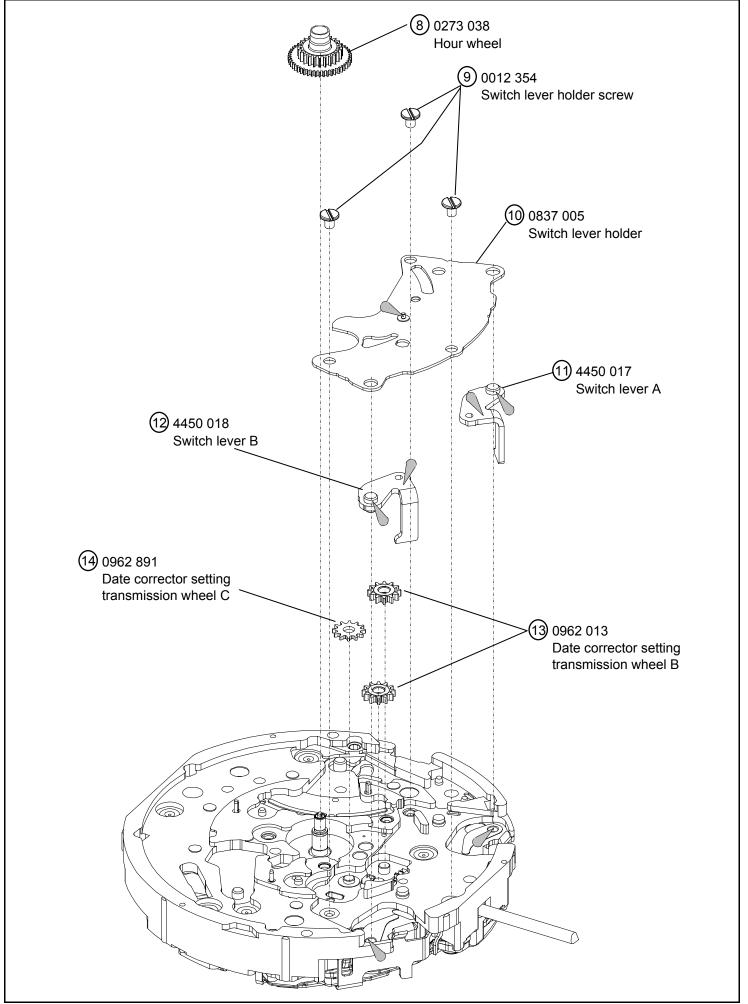
Version-01 Cal. No. **VK63 VK67 VK83 Item** Movement Outside diameter φ 30.80 mm × 29.10 mm (3H - 9H) Movement Casing diameter φ29.00 mm size Total height 5.10 mm 2Hands 0 0 0 (hour, minute) O Date Calendar 0 O Small second 0 0 0 hand (6H) O Center chronograph 0 O (1/5 second) 60 second per round 60 second per round 60 second per round Time 60 minutes counter 0 (12H) indication 60 minutes counter 0 (9H) 20 minutes counter O (9H) 12 hours counter 0 (9H) 24 hour indicator O O (3H) Two pole stepping motor Driving System Step motor 2 pieces Date display with quick correction Electronic circuit reset switch Additional mechanism Time setting with stop-second Less than ± 20seconds: Monthly rate at normal temperature range Accuracy SR936SW (Silver oxide battery) **Battery** Battery life is approximately 3 years (60 minutes chronograph operation per day) Use 10-second gate Measuring gate by quartz tester *Set the winding stem with crown at the normal position Antimagnetic ≧ 1600 A/m Jewels 0 Jewel

PARTS CATALOGUE

Version-01 **VK Series**



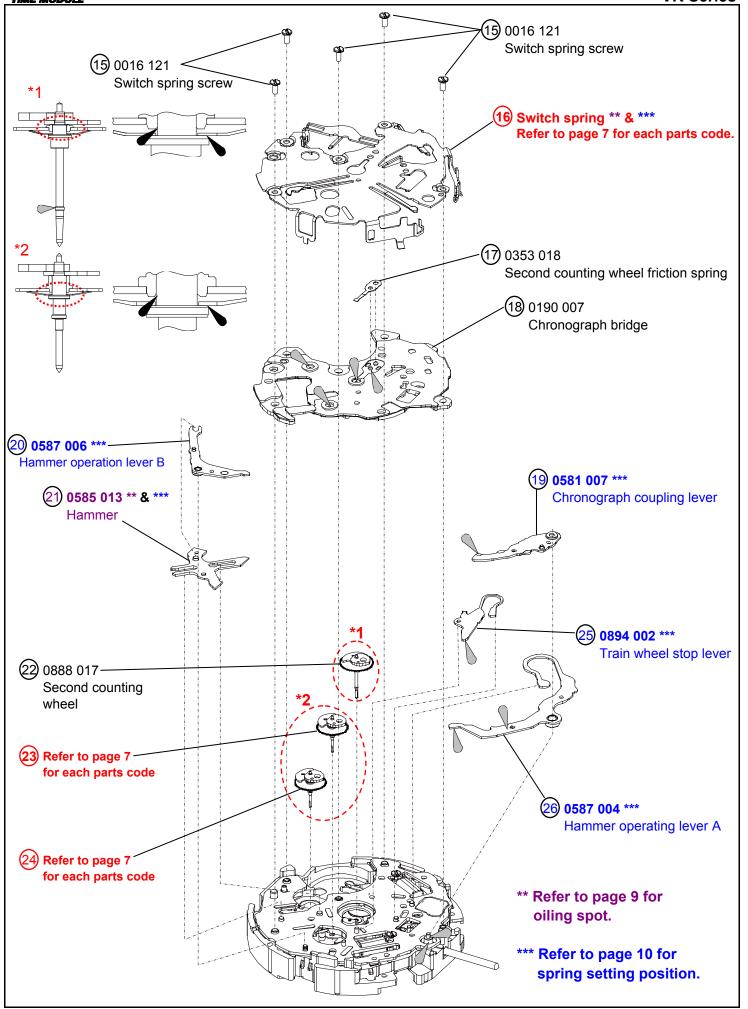




SII Products

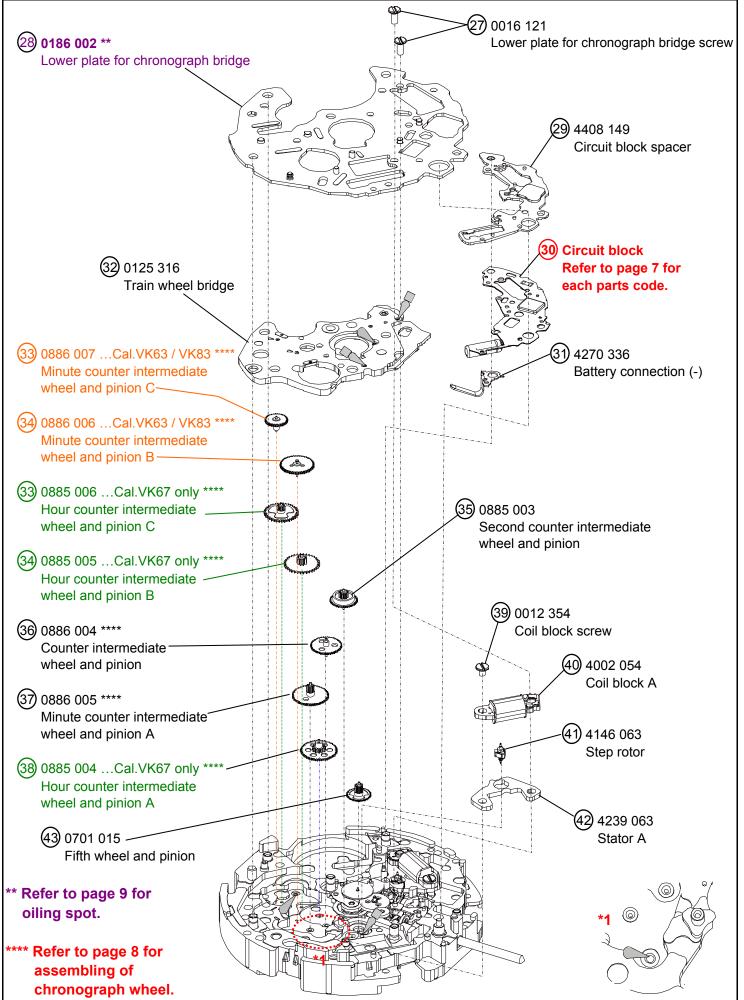
PARTS CATALOGUE



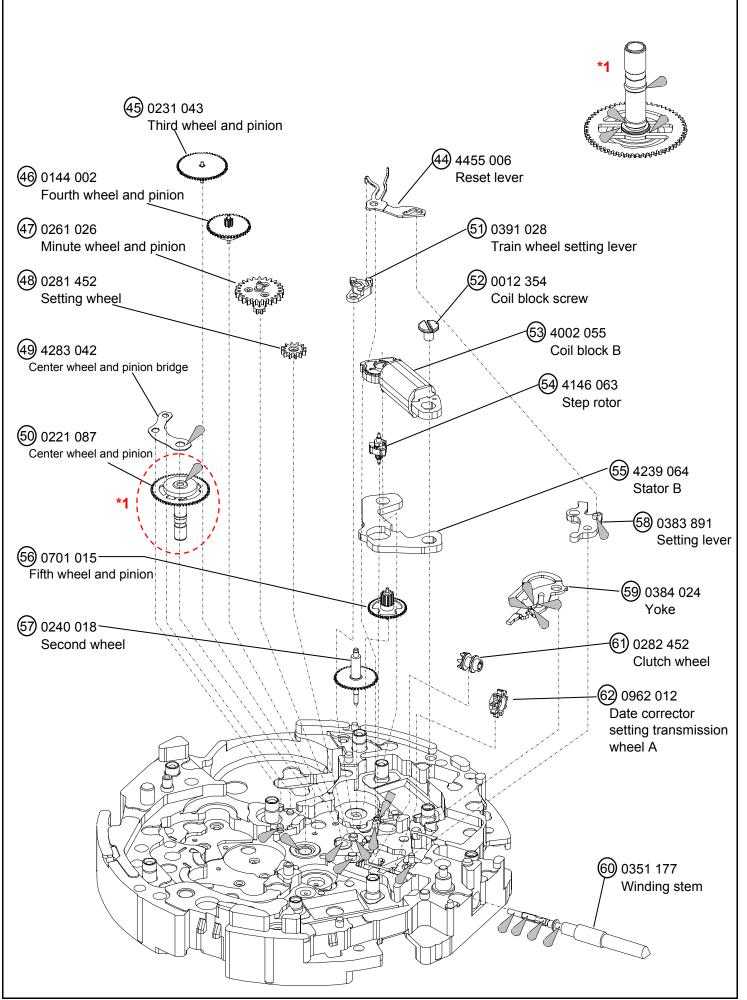












SII Products

Rei	Remarks: Different parts for each CAL.					
No	VK63	Cal. VK63 VK67 VK83 Parts code Parts name		Parts form		
6	0	-	0	0817 048	Intermediate small hour hand wheel and pinion	
	I	0	-	0617 046	Intermediate date wheel and pinion	
7	0	-	0	0157 012	Small hour hand wheel	
	ı	0	-	0802 039	Date indicator driving wheel	
6	0	-	-	4250 035		SICO SICO SICO SICO SICO SICO SICO SICO
	-	0	-	4250 034	Switch spring (Differs by Cal. marking)	
	-	-	0	4250 047		
23	0	-	0	0685 002	Positioning arbor	
	-	0	-	0902 011	Minute counting wheel	
2	0	-	0	0740 002	Minute counting wheel	Contract of the Contract of th
	-	0	-	0740 002	Hour counting wheel	
30	0	-	-	4004 253		
	-	0	-	4004 252	Circuit block	
	-	-	0	4004 277		9

[NOTE]

How to distinguish between "Parts code: 0902-011 and 0740-002"

Parts code			
0740 002	0902 011		

Confirm shape difference to distinguish each parts.

3 Date dial ... Cal. VK63 / 67/ 83 common parts

Parts code	Crown position	Date position	Color of figure	Color of background
0878 328	3H	3H (4.5H)	Black	White

TECHNICAL GUIDE



1.Detailed assembling of chronograph wheel [NOTE]

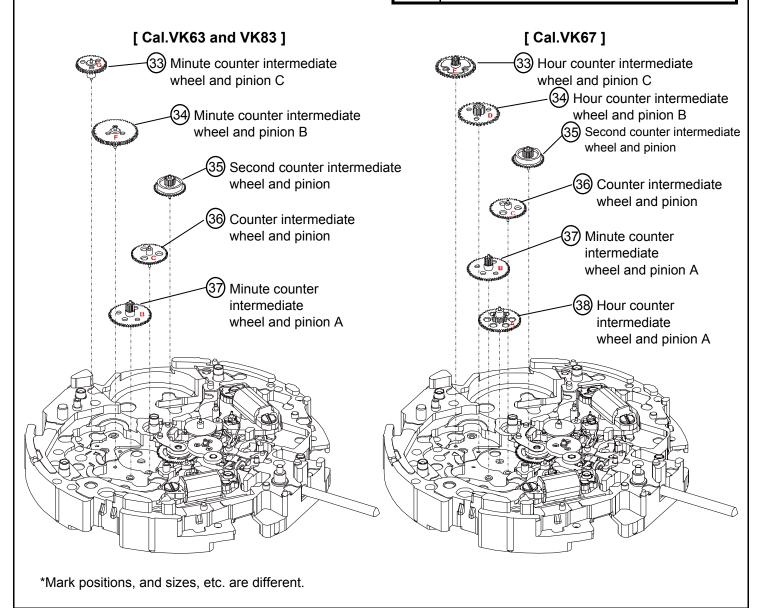
There is a mark on parts. Parts are set in order of the mark as shown in the table below.



Image example of the mark

[Cal.VK63 and VK83]			
Mark	Parts name		
В	37 Minute counter intermediate wheel and pinion A		
С	36 Counter intermediate wheel and pinion		
Nil 35 Second counter intermediate wheel and			
F 34 Minute counter intermediate wheel and pinio			
G 33 Minute counter intermediate wheel and pin			

[Cal.VK67]				
Mark	Mark Parts name			
Α	38 Hour counter intermediate wheel and pinion A			
B 37 Minute counter intermediate wheel and pinion				
C 36 Counter intermediate wheel and pinion				
Nil 35 Second counter intermediate wheel and				
D	(34) Hour counter intermediate wheel and pinion B			
E 33 Hour counter intermediate wheel and				



Type of oil

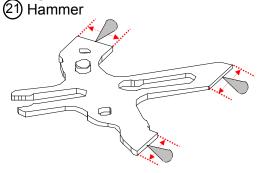
Moebius A

Oil quantity mark

NORMAL QUANTITY

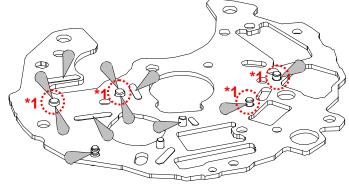
SUFFICIENT QUANTITY

2.Oiling spot



There must be oil within the range of the arrow.

28 Lower plate for chronograph bridge

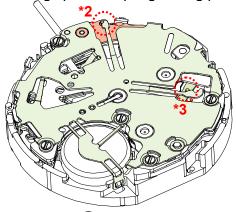


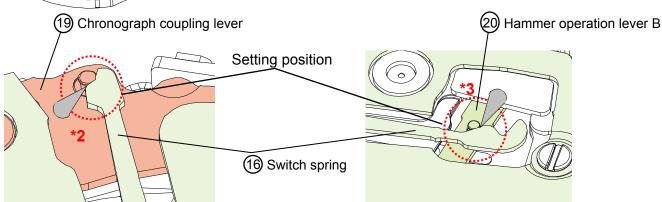
Note

*1: Oiling should be done on the pointed spot of marked place.

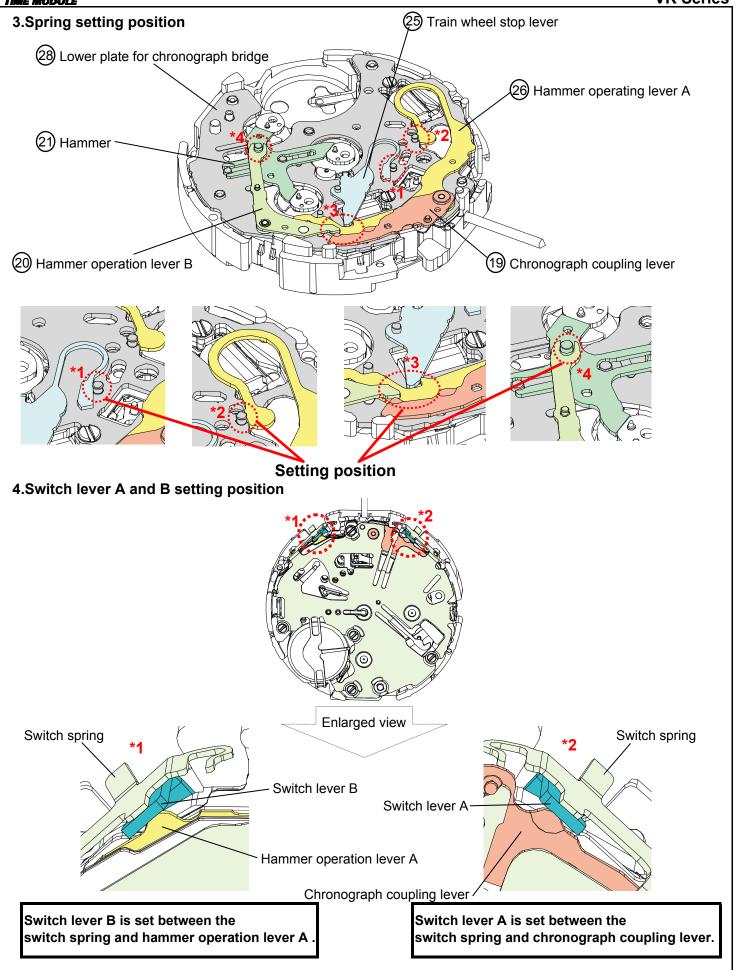
16 Switch spring

*Oiling spot and spring setting position.





*Oiling should be done on the contact spot of the spring and the pin.

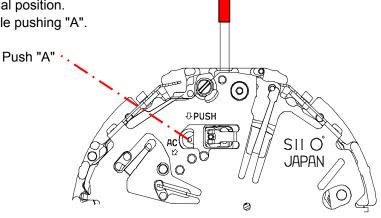




TECHNICAL GUIDE

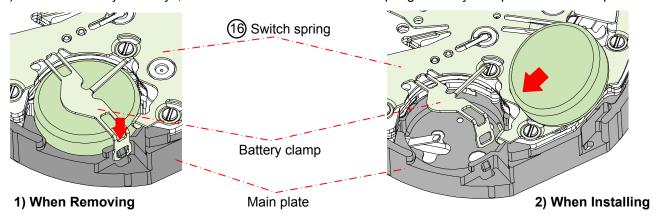
5.To remove the winding stem

- 1) Set the winding stem to normal position.
- 2) Pull out the winding stem while pushing "A".



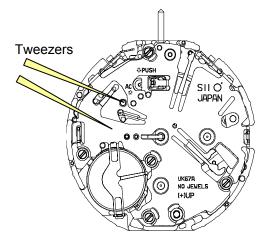
6.To remove or install the battery

- 1) Remove the hook of the switch spring's battery clamp.
- 2) Insert the battery sideways, and have the hook of the switch spring's battery clamp catch the main plate.



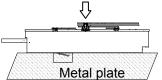
7. Remarks on installing the battery

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



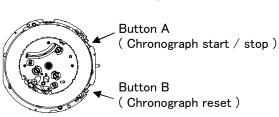
8. How to attach hands

Place the movement directly on a flat metal plate, or something alike to install the hands.



[Note: Second / Minute / Hour chronograph hands setting]

- (1) Push button A (Chronograph start)
- (2) Push button A (Chronograph stop)
- (3) Push button B (Chronograph reset)
- (4) After (1)-(3), Install the chronograph hands as shown in the table below.



Cal.	VK63	VK67	VK83
Second chronograph	"12" o'clock (center)	"12" o'clock (center)	"12" o'clock (center)
Minute chronograph	"60" minute (9H)	"60" minute (12H)	"0" minute (9H)
Hour chronograph	_	"12" hour (9H)	_

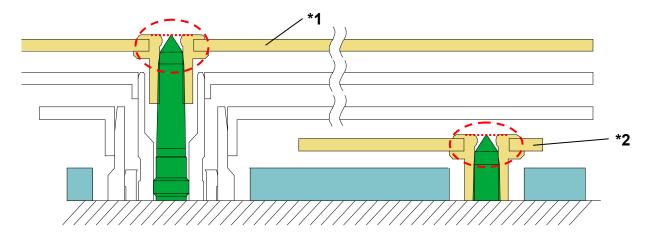
*Do not reuse the chronograph hands once detached. Please change and use new hands.

[Note: To install 24 hour hand for VK63 and VK83]

Before installing 24 hour hand, pull out the crown to the second click position and rotate it clockwise, until changed to the next date then install the 24 hour hand.

9. How to check correct hands attachment

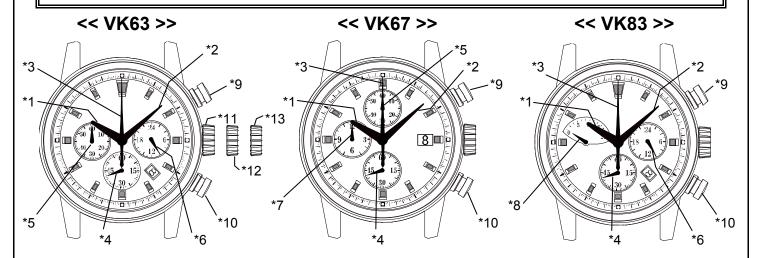
The hand's top surface should be set parallel with the axis tip, as shown below.



Application hands

- *1: Second chronograph hand
- *2: Minute / Hour chronograph hands and Small second hand and 24 hour hand

DISPLAY AND CROWN / BUTTON OPERATION



Note

*1: Hour hand	*6: 24 hour hand	*10: Button B (RESET)
*2: Minute hand	*7. Chronograph hour hand	*11: Crown at normal position
*3: Chronograph second hand	' (12 hour)	*12: Crown at first position
*4: Small second hand	*8: Chronograph minute hand	(Date setting)
*5: Chronograph minute hand	(20 minute)	*13: Crown at second position
^{3.} (60 minute)	*9: Button A (START / STOP)	(Time setting)

1.How to set the time

- 1) Pull out the crown to the second click position.
- Turn the crown to set hour and minute hands. (Check that AM / PM is set correctly.)
- 3) Push the crown back into the normal position.

[Note]

If the crown is pulled to the second position while the chronograph is started, the chronograph hands will continue to move. This is not a malfunction.

2. How to set the date

- 1) Pull out the crown to the first click position.
- 2) Turn the crown clockwise for date setting.
 - *Do not set the date between 9:00 P.M. and 3:00 A.M. as this will cause a malfunction.
- 3) Push the crown back into the normal position.

3. How to reset (after battery change)

It is possible to reset by the following two methods.

- Method 1
- 2) Touch the AC terminal of circuit block and the switch spring with conductive tweezers to reset the circuit.
- 3) The small second hand will move at two-second interval for 10 seconds.

Method 2 ≺

- 1) Pull out the crown to the second click position.
- od $2 \prec 2$) Press the button B for two seconds and release the button.
 - 3) Push the crown back to the normal position.

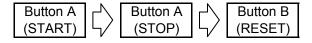
1) Set the crown to the normal position.

- 4) The small second hand will move at two-second interval for 10 seconds.
- * If the crown is operated within this 10 seconds, the two-second interval movement will not activate.

[Note]

It is not necessary to set the chronograph hands after the battery is exchanged.

If the chronograph hands position are incorrect, following below procedure all the chronograph hands will be reset to "0" position.



HOW TO USE THE CHRONOGRAPH

[Standard measurement]

Press the buttons in the following order: $A \rightarrow A \rightarrow B$ $START \longrightarrow STOP (Finish)$ reset

• Press button A to start the chronograph.

The chronograph second hand will start moving.

(6 hour 20 minutes 10 seconds)

• Press button A again to stop the chronograph.

The chronograph hands stop to indicate the elapsed time.

• Press button B to reset the chronograph.

All the chronograph hands will be reset to "0" position.

Note

[Cal.VK63]

The chronograph can measure up to 60 minutes.

The chronograph stops after a measurement for 60 minutes.

[Cal.VK67]

The chronograph can measure up to 12 hours.

The chronograph stops after a measurement for 12 hours.

* Restart by pushing button A. ... Cal. VK63 and VK67

[Cal.VK83]

The chronograph can measure up to 20 minutes.

The chronograph stops after a measurement for 20 minutes.

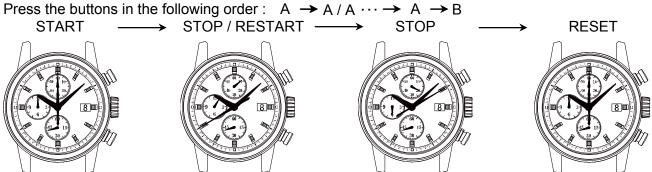
*Restart in the following procedure.



[Cal.VK63 / 67/ 83 in common]

*During the chronograph operation, button B (reset) can be pushed. There is no problem with the function.

[Accumulated elapsed time measurement]



(1 hour 8 minute 40 seconds) (6 hour 20 minutes 10 seconds)

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