

TECHNICAL GUIDE & **PARTS CATALOGUE** Cal.VK63/67/83 ANALOGUE QUARTZ



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PARTS CATALOGUE / TECHNICAL GUIDE Cal. VK63/67/83

VK67

VK63

[SPECIFICATION]

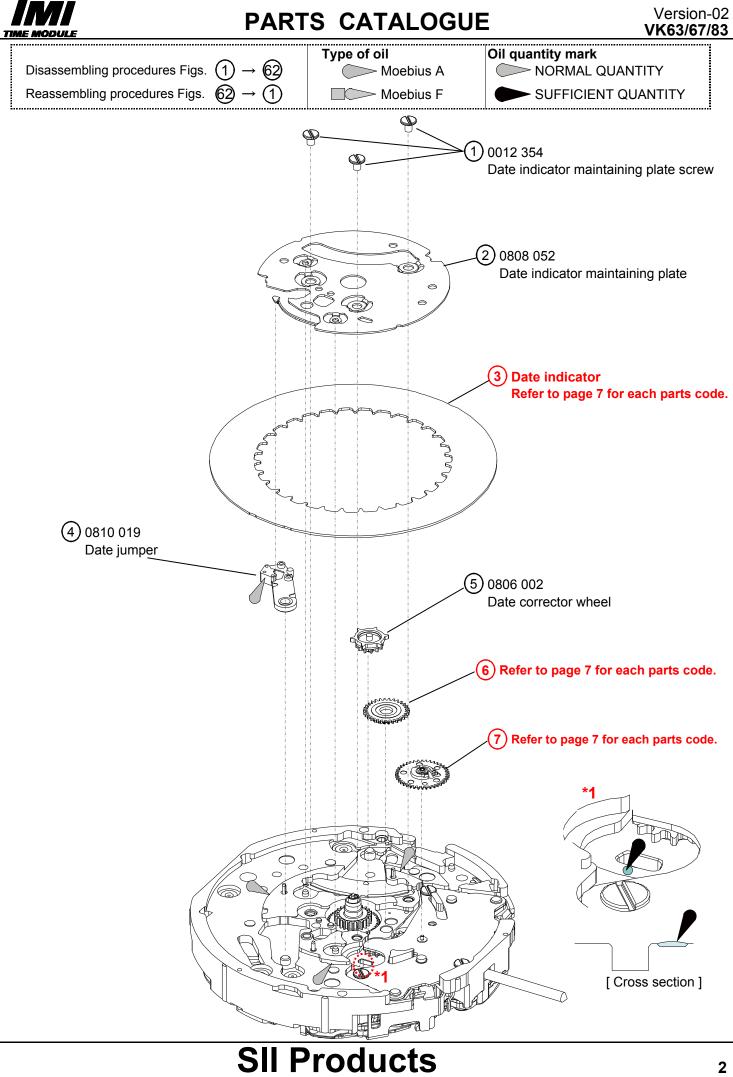
Cal. No.

item						
Movement						
	Outside diameter	φ30.80 m	m × 29.10 mm (3H - 9H)			
Movement size	Casing diameter		φ29.00 mm			
	Total height	5.10 mm				
	2 Hands (hour , minute)	0	0	0		
	Date Calendar	Ο	0	0		
	Small second hand (6H)	0	0	0		
	Center chronograph (1/5 second)	O 60 second per round	O 60 second per round	O 60 second per round		
Time indication	60 minutes counter (12H)	-	0	-		
	60 minutes counter (9H)	0	-	-		
	20 minutes counter (9H)	-	-	0		
	12 hours counter (9H)	-	0	-		
	24 hour indicator (3H)	0	-	0		
Driving Sys	stem	Two pole stepping motor Step motor 2 pieces				
Additional m	nechanism	Date display with quick correction Electronic circuit reset switch Time setting with stop-second				
Accuracy		Less than \pm 20 seconds : Monthly rate at normal temperature range				
Battery		SR936SW (Silver oxide battery) Battery life is approximately 3 years (60 minutes chronograph operation per day)				
Measuring g	gate by quartz tester	Use 10-second gate *Set the winding stem with crown at the normal position				
Antimagneti	C	≧ 1600 A/m				
Jewels		0 Jewel				

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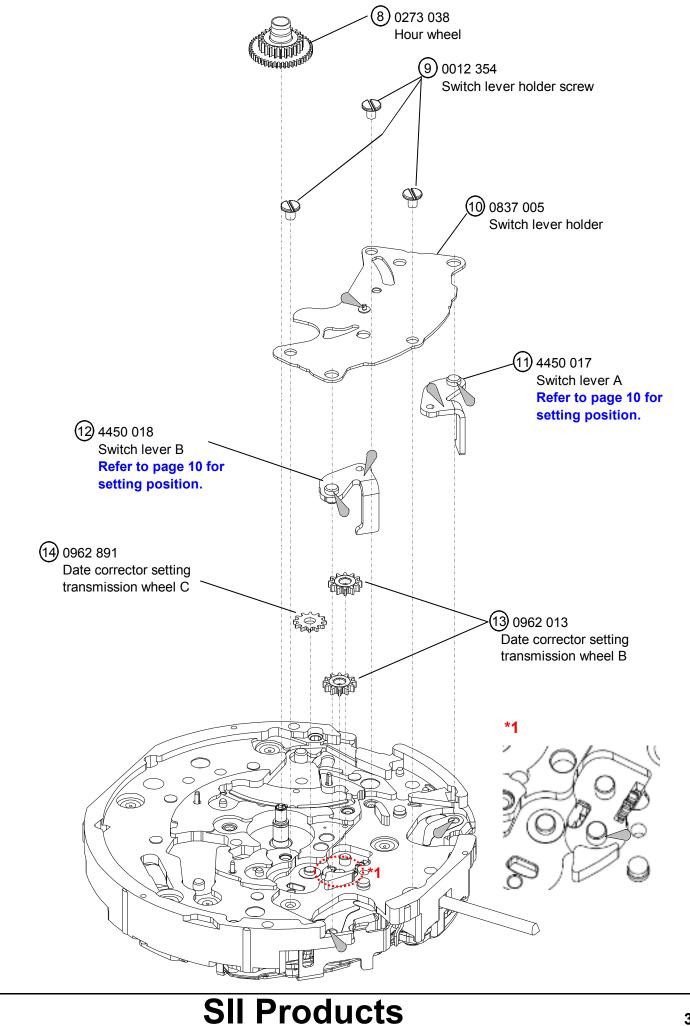
Version-03

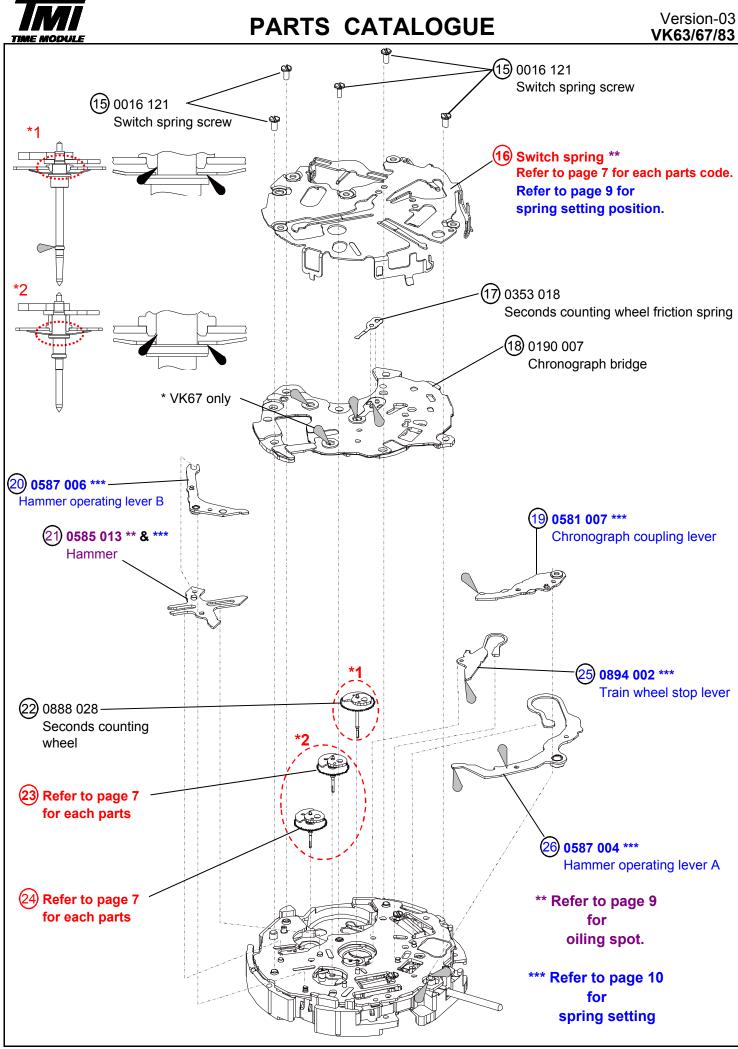
VK83



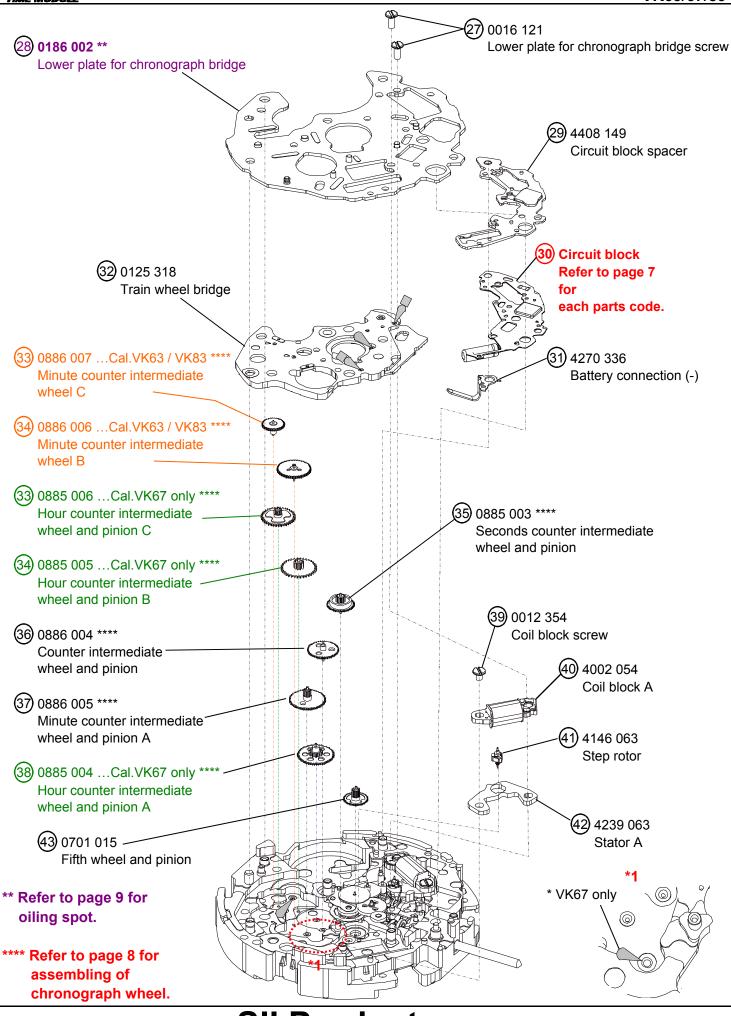


Version-02 VK63/67/83



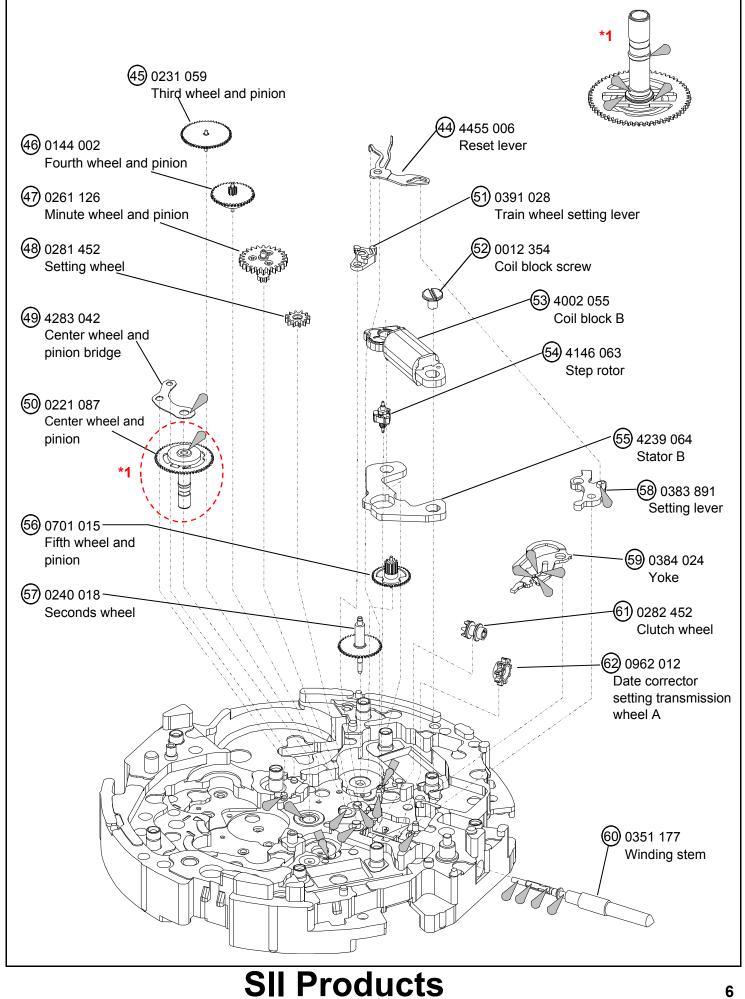


Version-02 VK63/67/83





Version-03 VK63/67/83





Rei	Remarks: Different parts for each CAL.						
No	Cal. VK63 VK67 VK83 Parts code		Parts code	Parts name	Parts form		
6	0	-	0	0817 048	Intermediate small hour hand wheel and pinion		
0	-	0	-	0017 040	Intermediate date wheel and pinion		
0	0	-	0	0157 012	Small hour hand wheel		
•	-	0	-	0802 039	Date indicator driving wheel		
	0	-	-	4250 035			
16	-	0	-	4250 034	Switch spring (Differs by Cal. marking)		
	-	-	0	4250 047			
ଷ୍ଡ	0	-	0	0685 003	Positioning arbor		
	-	0	-	0902 011 or 0902 017	Minute counting wheel		
2	0	-	0	0740 002 or	Minute counting wheel	"" " The second se	
Ð	-	0	-	0902 017	Hour counting wheel		
	0	-	-	4004 253			
30	-	0	-	4004 252	Circuit block		
	-	-	0	4004 277		Den 292	

[NOTE]

How to distinguish "Parts code: 0902-011,0740-002 and 0902-017 "



Confirm shape difference to distinguish each parts.

-			
3	Date indicator	Cal.VK63 / 67/ 83	common parts

Parts code	Crown	Date	Color of figure	Color of
Faits coue	position	position		background
0878 328	3H	3H (4.5H)	Black	White
0878 329	3H	3H (4.5H)	White	Black

* All parts code are subject to change without notice.



TECHNICAL GUIDE

1.Detailed assembling of chronograph wheel

[NOTE]

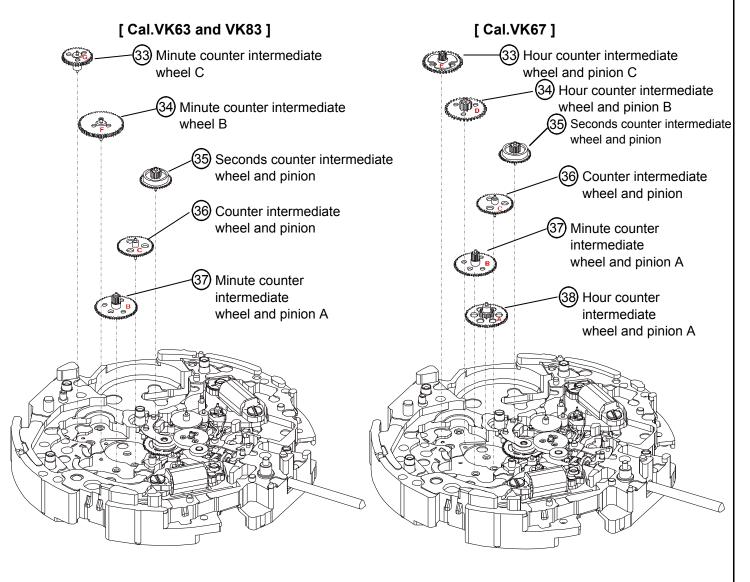
There is a mark on parts. Parts are set in order of the mark as shown in the table below.



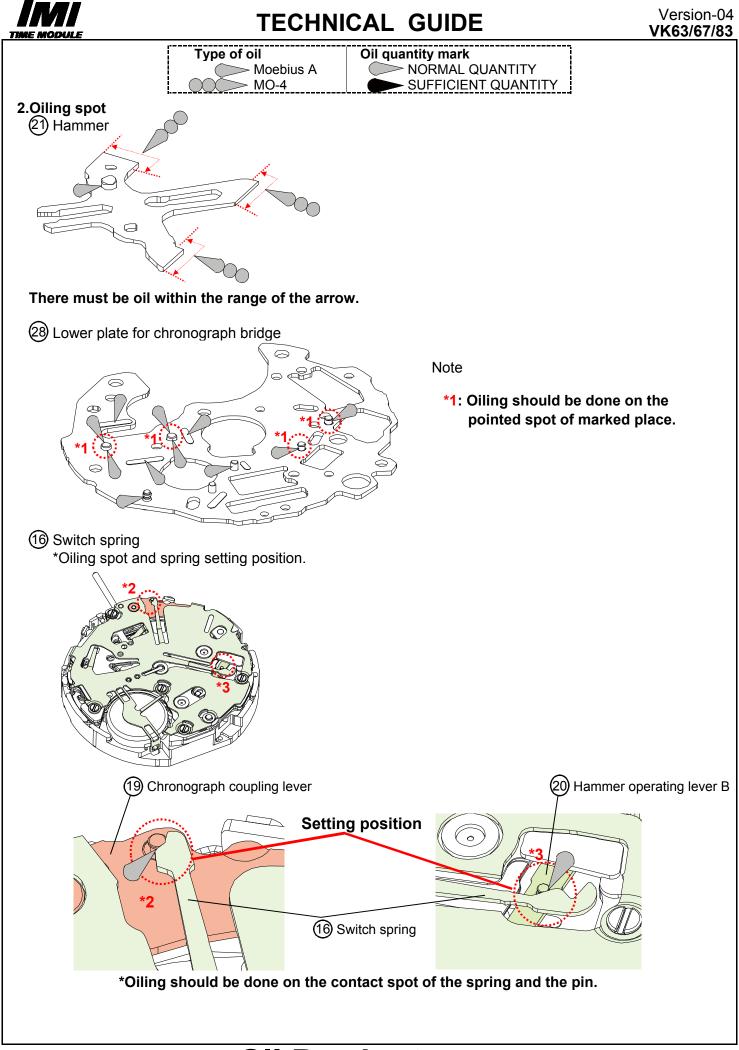
Image example of the mark

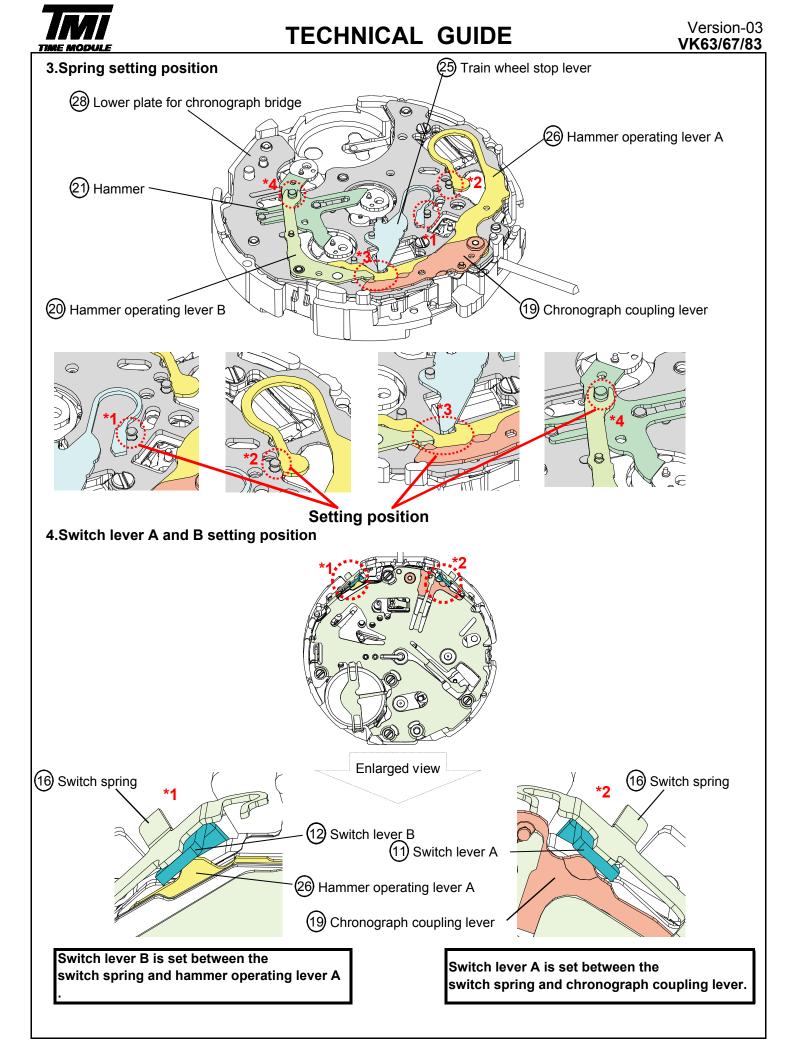
[Cal.VK63 and VK83]				
Mark	Parts name			
В	37) Minute counter intermediate wheel and pinion A			
С 🤅	36 Counter intermediate wheel and pinion			
Nil 🤅	35) Seconds counter intermediate wheel and pinion			
F	34) Minute counter intermediate wheel B			
G	33 Minute counter intermediate wheel C			

	[Cal.VK67]				
Mark	Parts name				
Α	(38) Hour counter intermediate wheel and pinion A				
В	(37) Minute counter intermediate wheel and pinion A				
С	36 Counter intermediate wheel and pinion				
Nil	(35) Seconds counter intermediate wheel and pinion				
D	$(\overline{34})$ Hour counter intermediate wheel and pinion B				
Е	33 Hour counter intermediate wheel and pinion C				



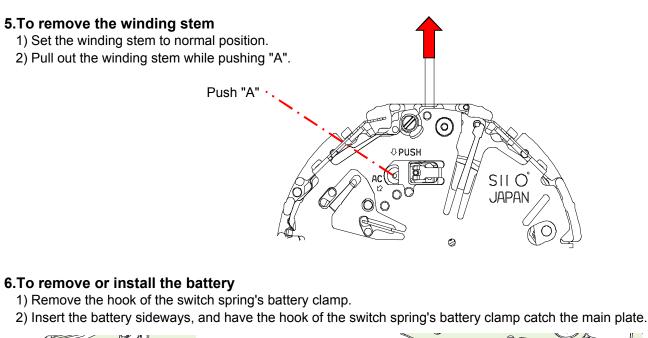
*Mark positions, and sizes, etc. are different.

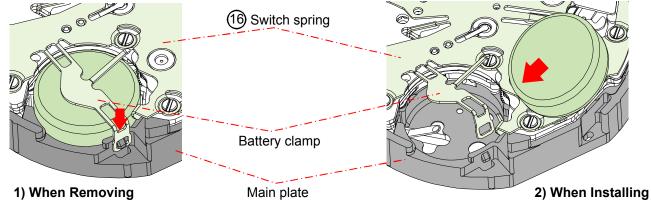






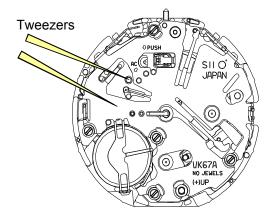
TECHNICAL GUIDE





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.





Υ

Metal plate

Button A

Button B

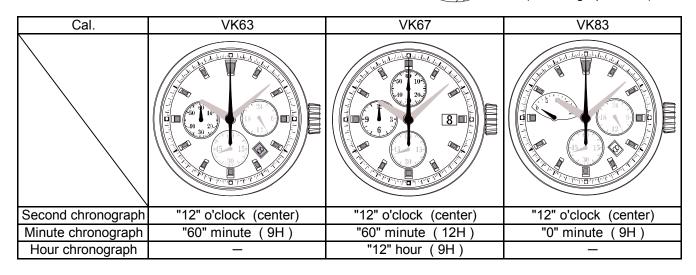
(Chronograph reset)

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.



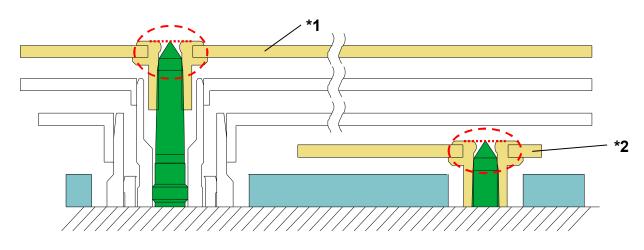
*Do not reuse the chronograph hands once detached. Please change and use new hands.

[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.



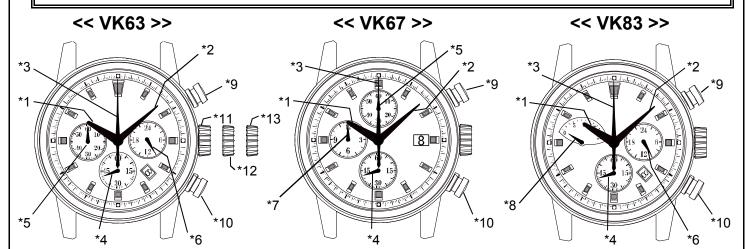
Application hands

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



OPERATION

DISPLAY AND CROWN / BUTTON OPERATION



Note

1010					
**	: 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	1.	(12 hour)	*12:	Crown at first position
*4	: Small second hand	*8:	Chronograph minute hand	12.	(Date setting)
*[Chronograph minute hand	0.	(20 minute)	*13:	Crown at second position
,	^{7.} (60 minute)	*9:	Button A (START / STOP)	13.	(Time setting)

1.How to set the time

- 1) Pull out the crown to the second click position.
- 2) 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.

1) Set the crown to the normal position.

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.
 - 1) Pull out the crown to the second click position.

Method 2 -

- 2) Press the button B for two seconds and release the button.3) Push the crown back 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.



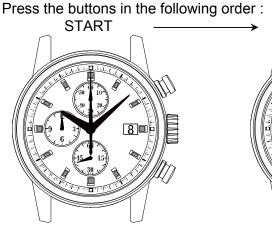


OPERATION

Version-02 VK63/67/83

HOW TO USE THE CHRONOGRAPH

[Standard measurement]



• Press button A to start the chronograph. The chronograph second

hand will start moving.

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.

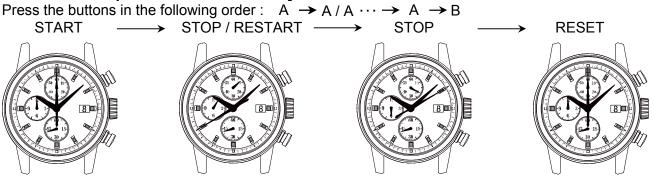
*Restart in the following procedure.

Button B		Button A
(RESET)	4/	(START)
	· /	

[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 minutes 40 seconds) (6 hour 20 minutes 10 seconds)

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



(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.