



TECHNICAL GUIDE & PARTS CATALOGUE

Cal.VK6 Series (VK63A/67A)

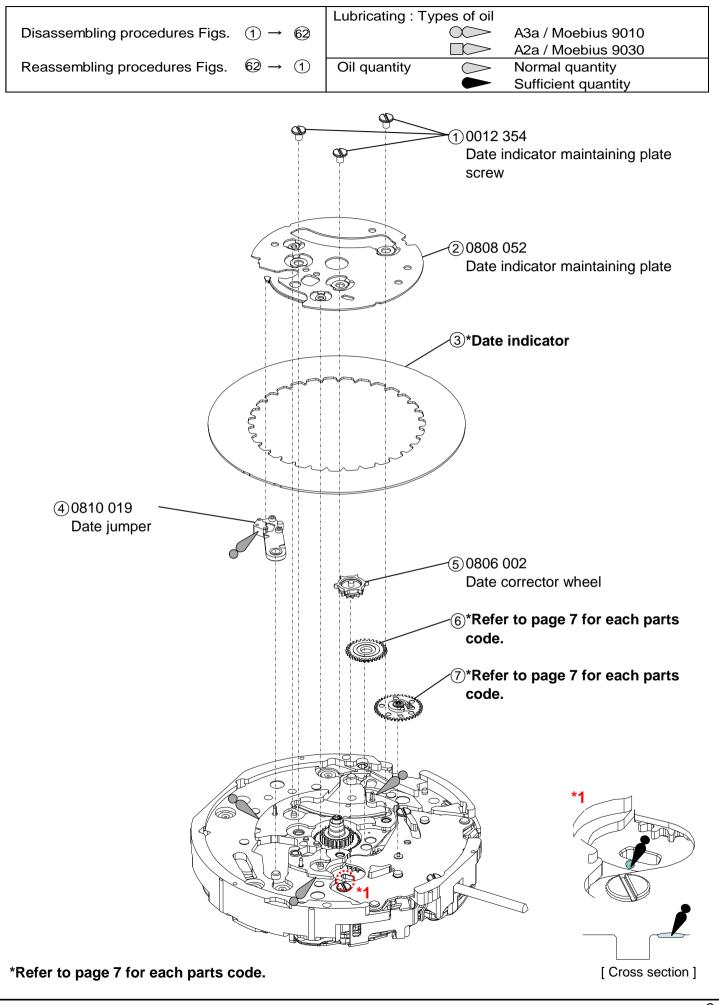
ANALOGUE QUARTZ



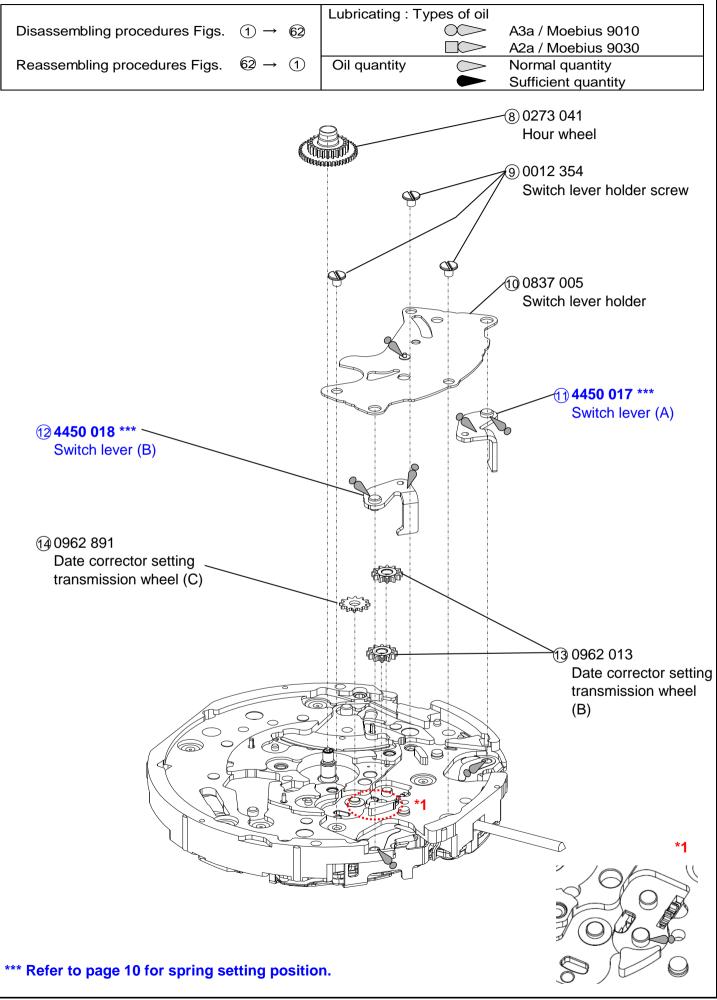
SPECIFICATION

Item	Cal. No.	VK63A	(VK63A/67A) VK67A	
Movement				
Movement size Outside diameter Casing diameter Total height		φ30.80 mm × 29.10 mm (3H - 9H) φ29.00 mm 5.10 mm		
	2 Hands (hour, minute)	0	0	
	Date Calendar	Ο	О	
	Small second hand (6H)	0	0	
Time	Center chronograph (1/5 second)	O 60 second per round	O 60 second per round	
indication	60 minutes counter (12H)	-	0	
	60 minutes counter (9H)	0	-	
	12 hours counter (9H)	-	0	
	24 hour indicator (3H)	0	-	
Driving syst	em	Two pole stepping motor Step motor 2 pieces		
Additional mechanism		Date display with quick correction Electronic circuit reset switch Time setting with stop-second		
Accuracy		Less than ± 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 gate by quartz tester		Use 10 second gate *Set the winding stem with crown at the normal position		
Antimagnetic		≧ 1600 A/m		
Jewels		0 Jewel		

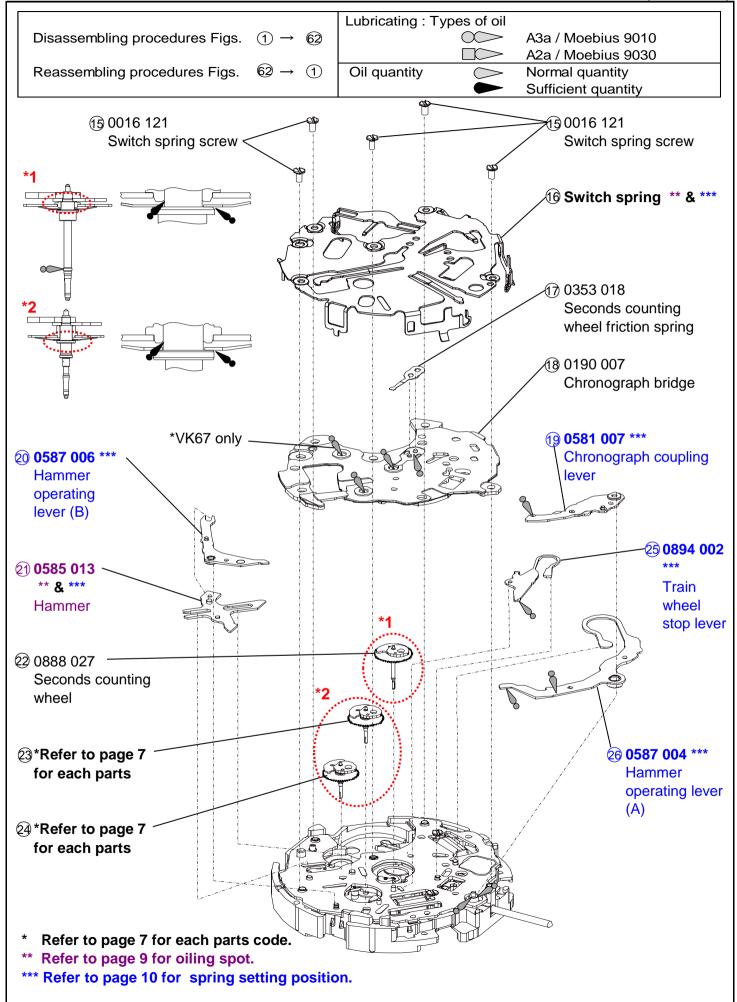




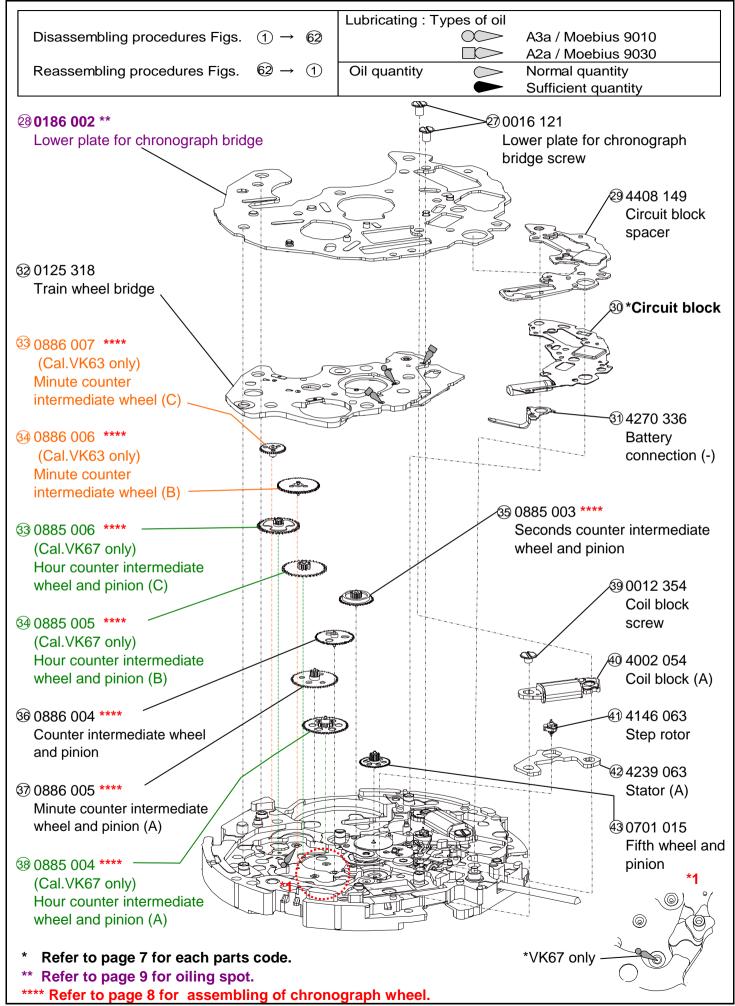




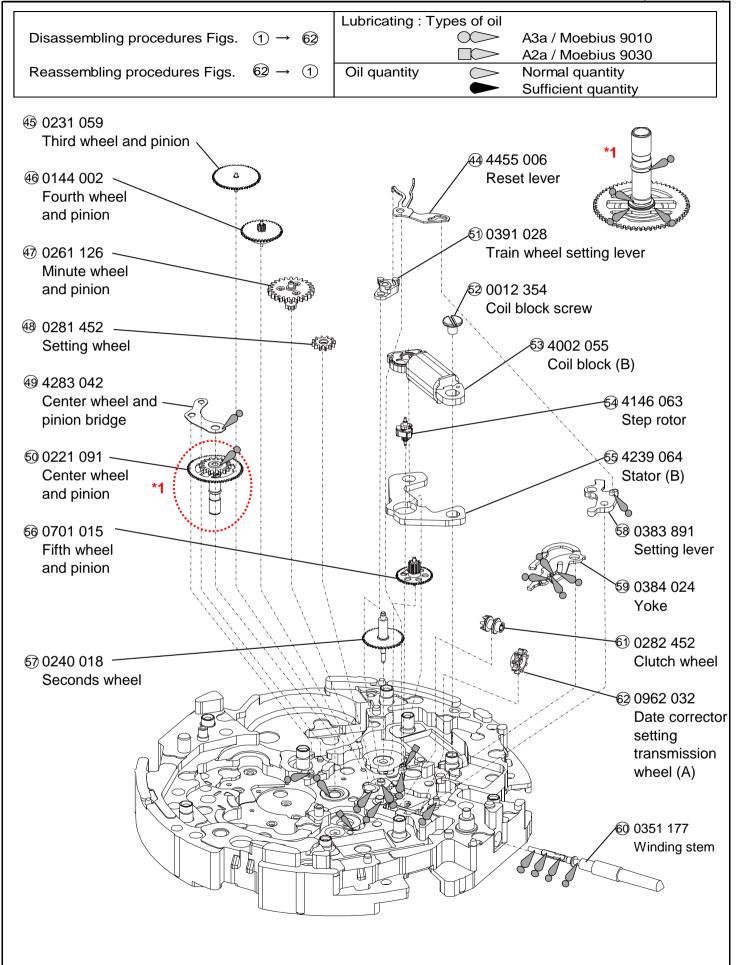














Version-02 Cal.VK6 Series (VK63A/67A)

Remarks: Different parts for each CAL.					
No	Cal. VK63 VK67 Parts code		Parts code	Parts name	Parts form
6	0	-	0817 048	Intermediate small hour hand wheel and pinion	
	-	0		Intermediate date wheel and pinion	E CARRENT CONTRACTOR
7	0	-	0157 012	Small hour hand wheel	
)	-	0	0802 039	Date indicator driving wheel	
16	0	-	4250 076	Switch spring	
	-	0	4250 072	(Differs by Cal. marking)	
23	0	-	0685 003	Positioning arbor	
	-	0	0902 017	Minute counting wheel	
24	0	-	0902 017	Minute counting wheel	
e	-	0	0902 017	Hour counting wheel	Ð
30	0	-	4004 353	Circuit block	and the second
20	-	0	4004 352		

[NOTE]

About the parts code "0902 017"

		New parts
No. 🗿	No. 🛽 🕄	No.23 & 24
_	—	0902 017

When you purchase this part, please order new one "0902 017."

③ Date indicator (Cal.VK63 / 67 common parts)

Parts code	Crown position	Date position	Color of figure	Color of background
0878 328	ЗH	3H (4.5H)	Black	White
0878 329	ЗH	3H (4.5H)	White	Black
 A 11 /				

* All parts code are subject to change without notice.



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.



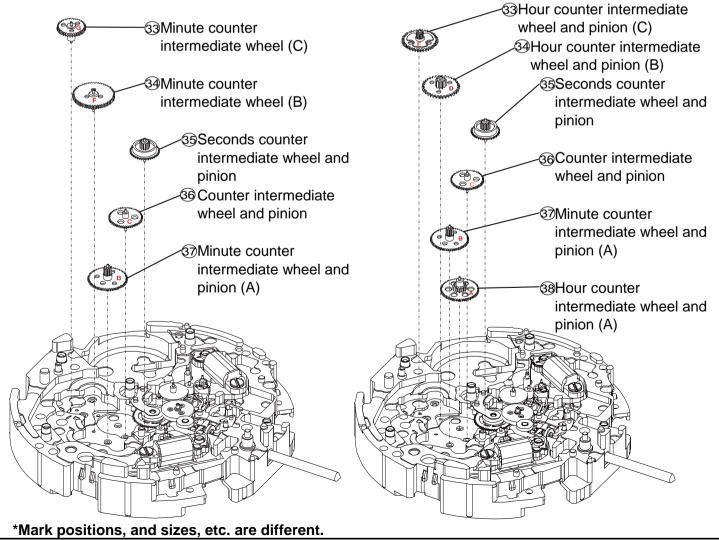
Image example of the mark

	[Cal.VK63]		
Mark	Aark Parts name		
В	3 Minute counter intermediate wheel and pinion (A)		
С	(36) Counter intermediate wheel and pinion		
Nil	(35) Seconds counter intermediate wheel and pinion		
F	(3) Minute counter intermediate wheel (B)		
G	(3) Minute counter intermediate wheel (C)		

[Cal.VK67]			
Mark	Parts name		
Α	(3) Hour counter intermediate wheel and pinion (A)		
В	\mathfrak{Y} Minute counter intermediate wheel and pinion (A)		
С	(36) Counter intermediate wheel and pinion		
Nil	(35) Seconds counter intermediate wheel and pinion		
D	(3) Hour counter intermediate wheel and pinion (B)		
Е	(3) Hour counter intermediate wheel and pinion (C)		

[Cal.VK67]

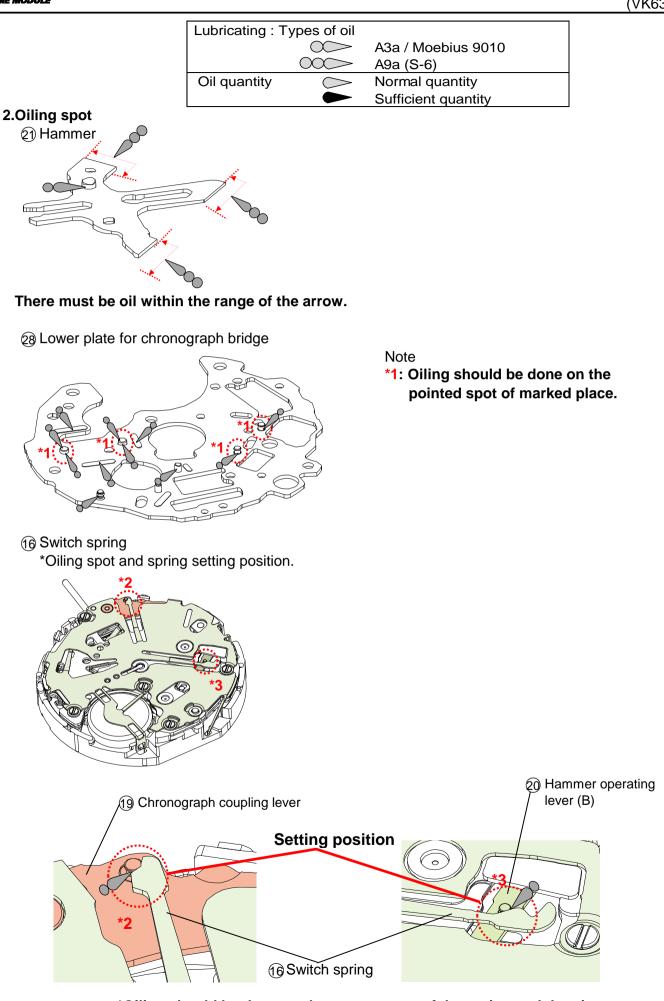
[Cal.VK63]





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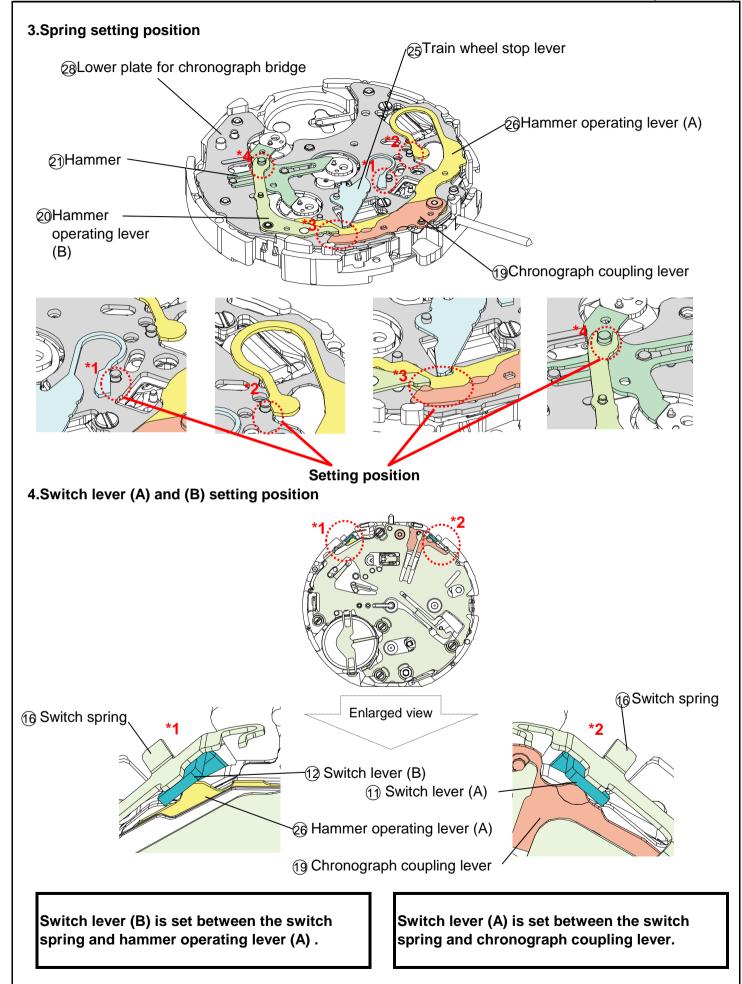
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*Oiling should be done on the contact spot of the spring and the pin.

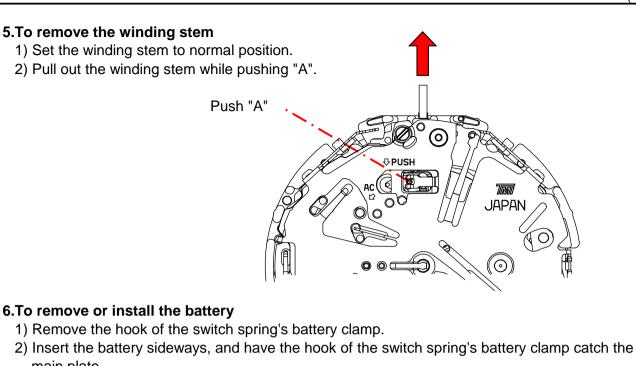


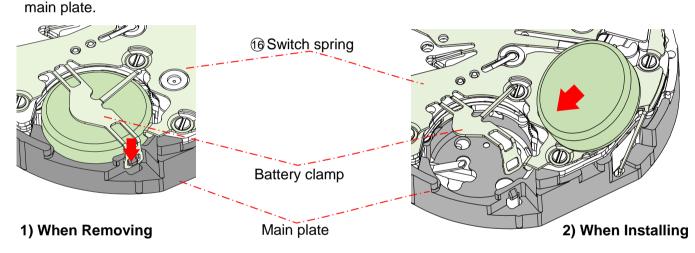
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7.Remarks on installing the battery

 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.

Tweezers

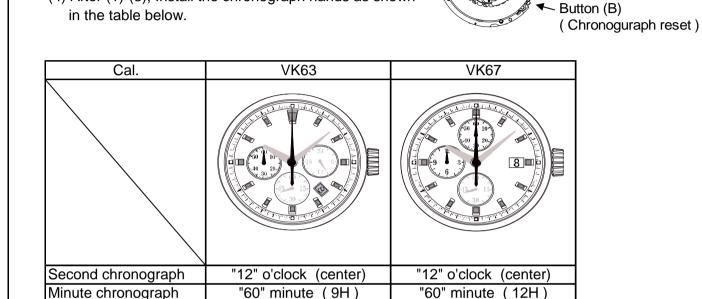


Metal plate

(Chronoguraph start / stop)

Button (A)





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

[Note: To install 24 hour hand for VK63]

Hour chronograph

8. How to install the hands

alike to install the hands.

Place the movement directly on a flat metal plate, or something

[Note: Second / Minute chronograph hands setting]

(4) After (1)-(3), Install the chronograph hands as shown

(1) Push button (A) (Chronograph start)

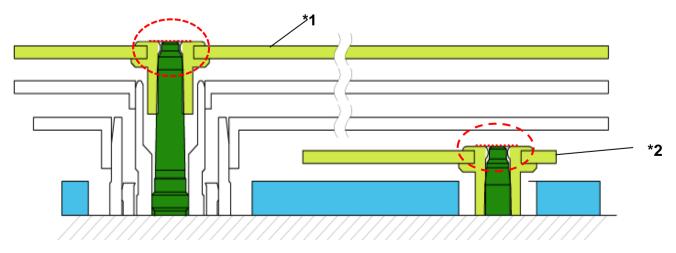
(2) Push button (A) (Chronograph stop) (3) Push button (B) (Chronograph reset)

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.

"12" hour (9H)

9. How to check correct hands attachment

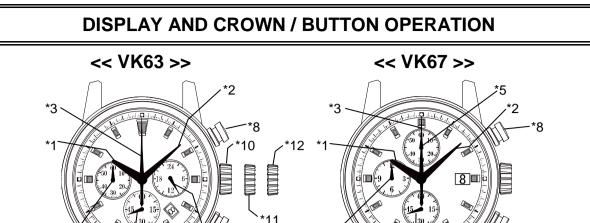
The hand's top surface should be set parallel with the axis tip, as shown below.



Application hands

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





Note

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

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.



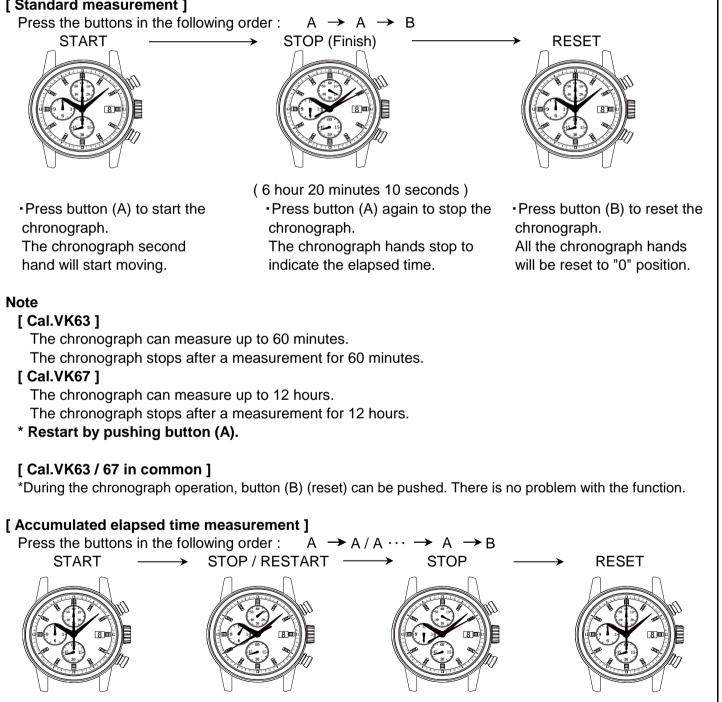
[Note]

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.



HOW TO USE THE CHRONOGRAPH

[Standard measurement]



(1 hour 8 minutes 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)