

TECHNICAL GUIDE & PARTS CATALOGUE 19032021

Cal.VK68A

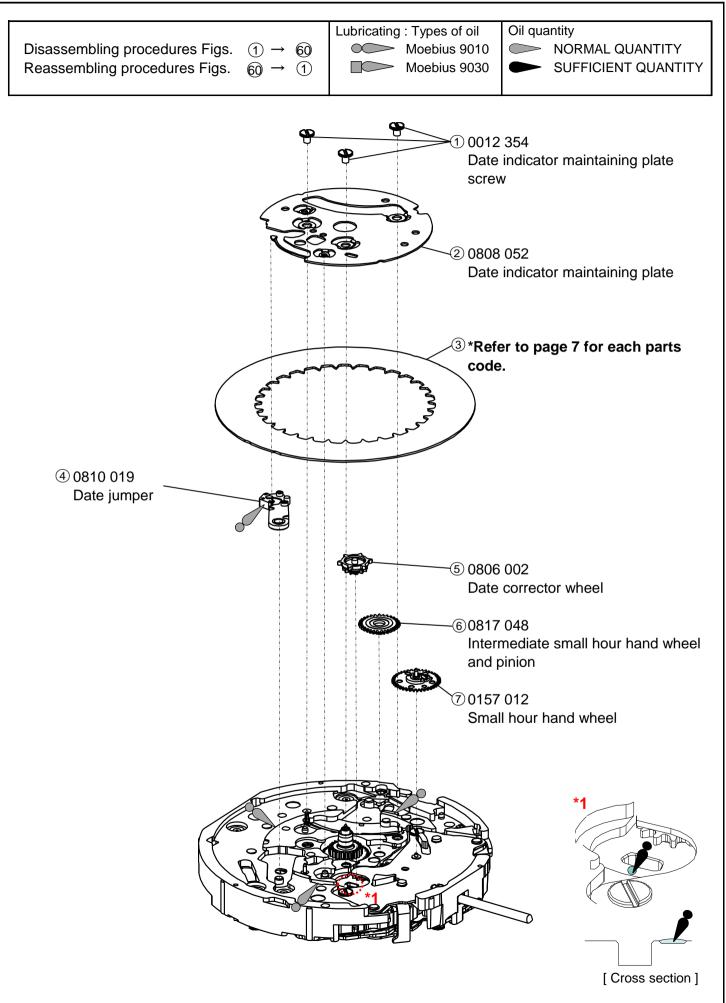
ANALOGUE QUARTZ



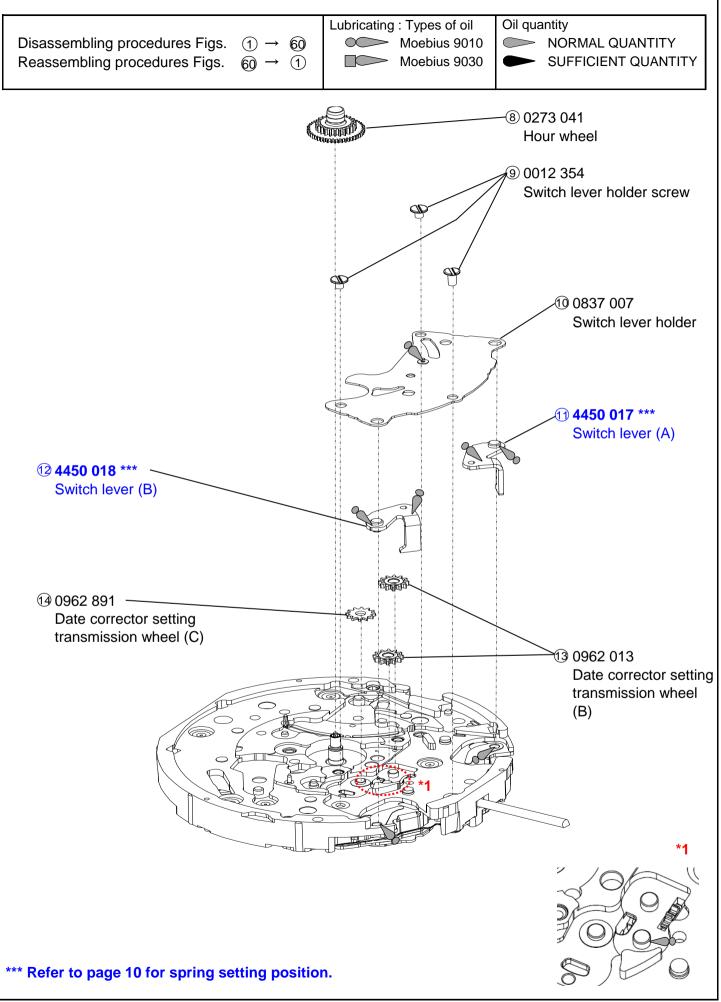
SPECIFICATION

Cal. No.		VK68A	
Movement		PUSH ACC DIA ACC DI	
	Outside diameter	φ30.80 mm × 29.10 mm (3H - 9H)	
Movement size	Casing diameter	φ29.00 mm	
	Total height	5.10 mm	
		2 Hands (hour, minute)	
		Small second hand (6H)	
Timo indicat	ion	Date Calendar	
Time indication		Center chronograph (1/5 second)	
		60 minutes counter (10H)	
		24 hour indicator(2H)	
Driving syste	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 \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 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	
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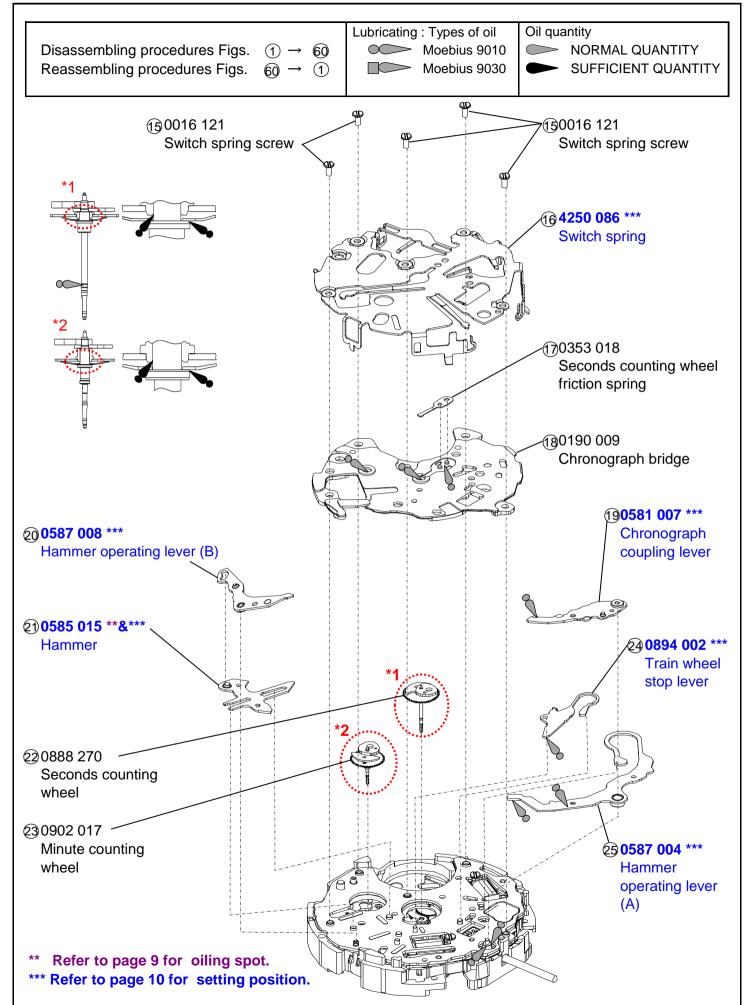




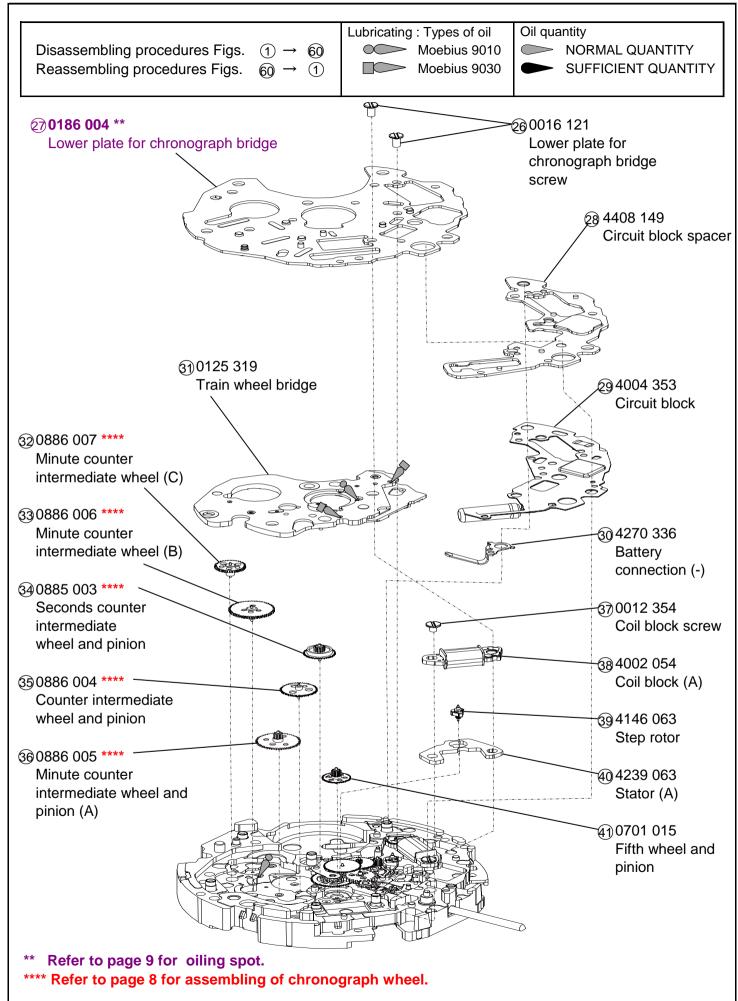




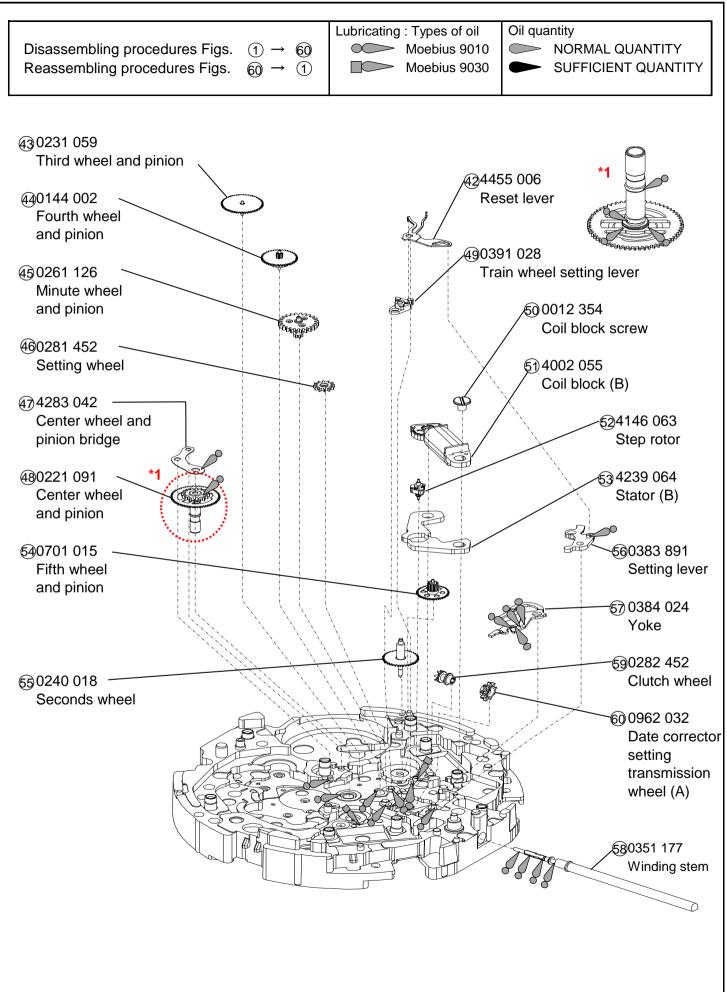














Remarks:

③ Date indicator

Parts code	Crown position	Date position	Color of figure	Color of 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.



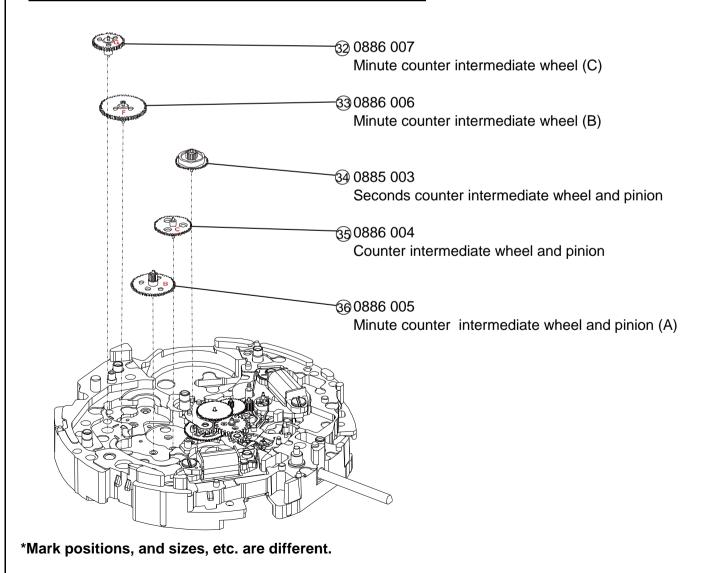
1.Detailed assembling of chronograph wheel [NOTE]

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

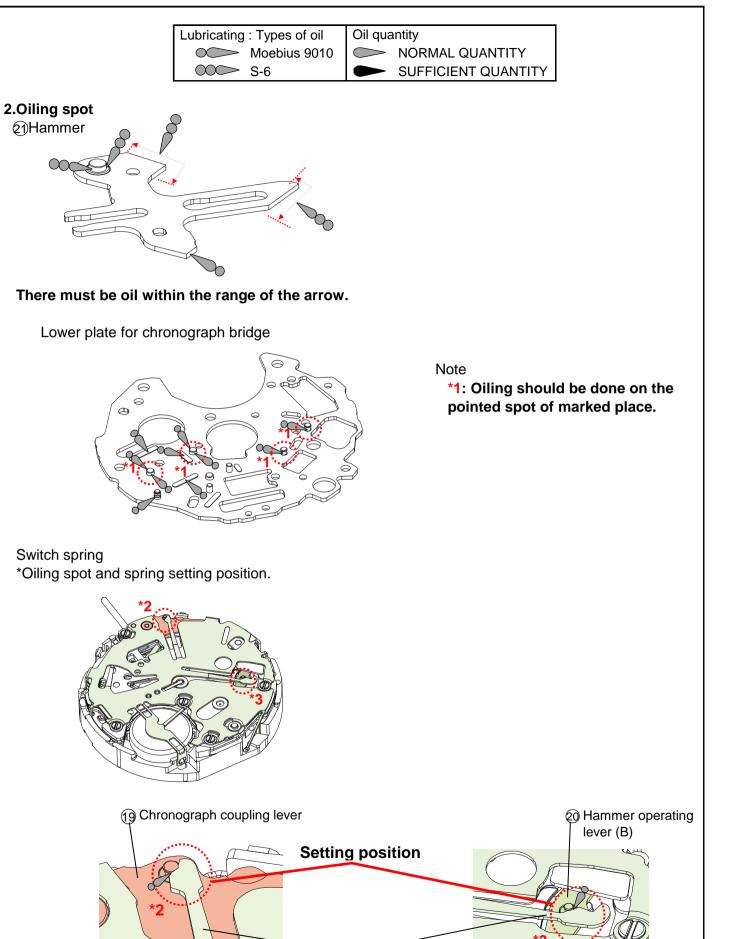
	[Cal.VK68]				
Mark	Parts name				
В	36 Minute counter intermediate wheel and pinion (A)				
С	35 Counter intermediate wheel and pinion				
Nil	3 Seconds counter intermediate wheel and pinion				
F	3 Minute counter intermediate wheel (B)				
G	32 Minute counter intermediate wheel (C)				





TECHNICAL GUIDE

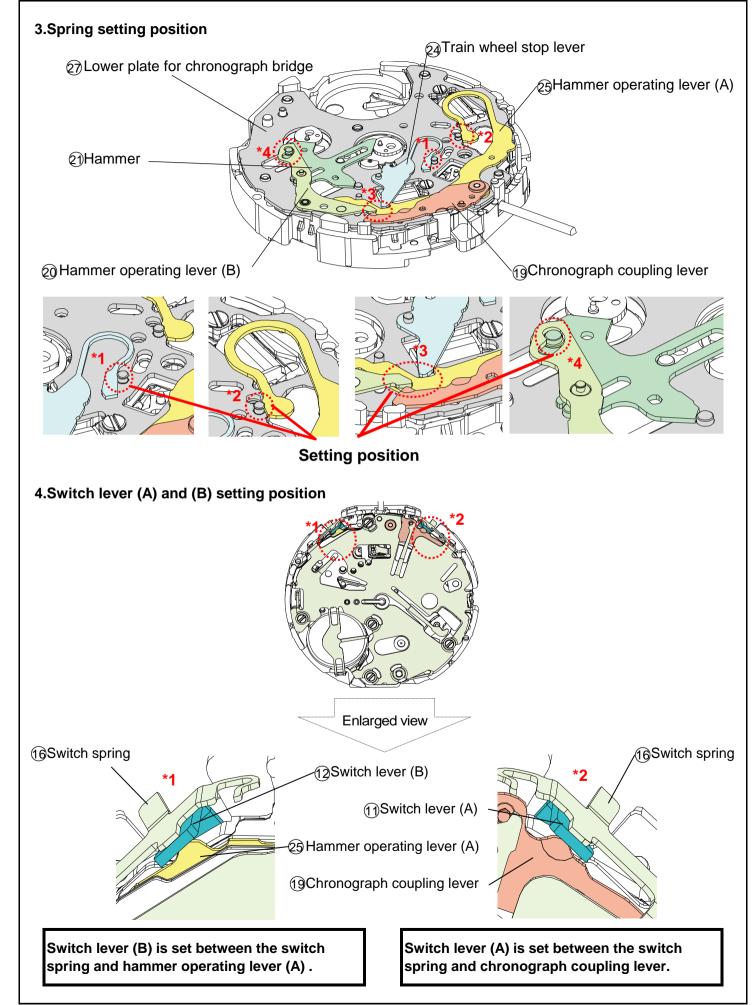
Version-01 Cal.VK68A



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

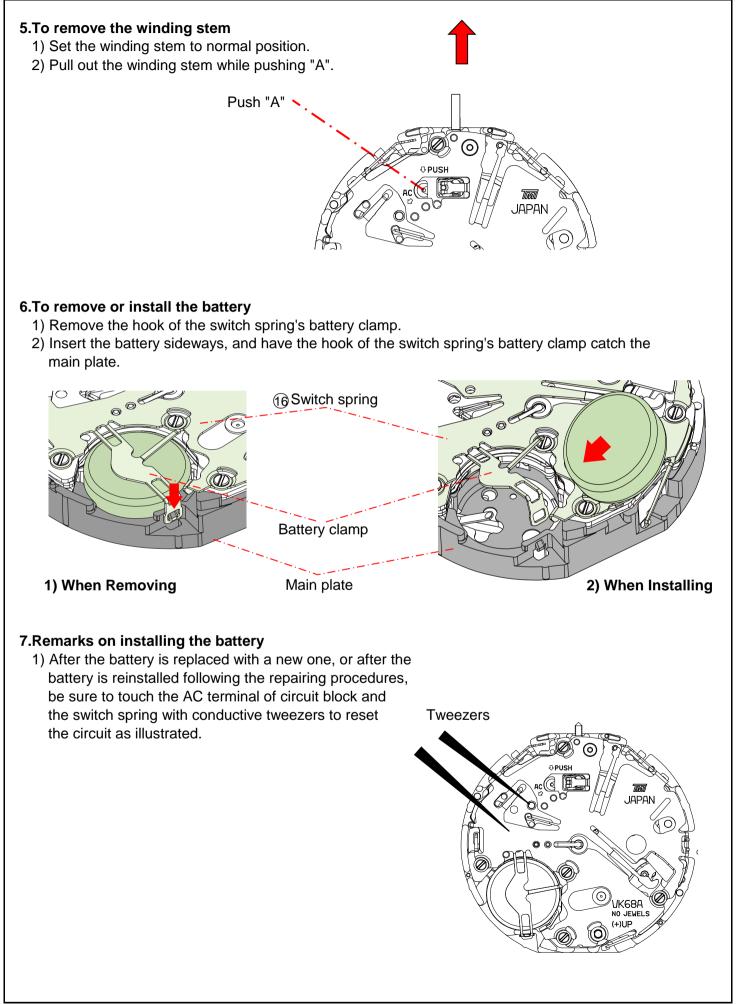
(16) Switch spring







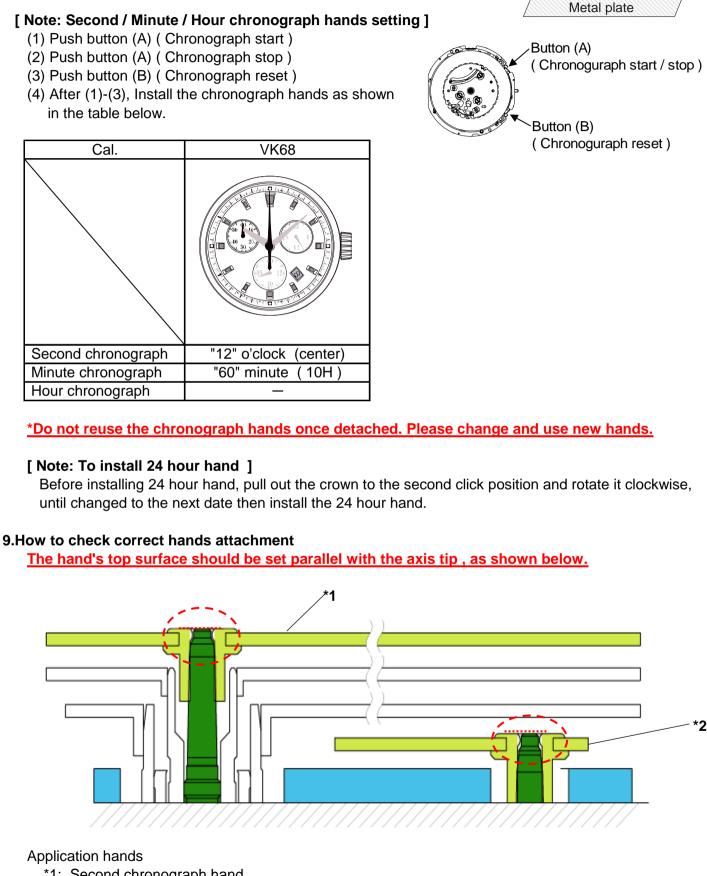
TECHNICAL GUIDE



TECHNICAL GUIDE

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

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*1: Second chronograph hand

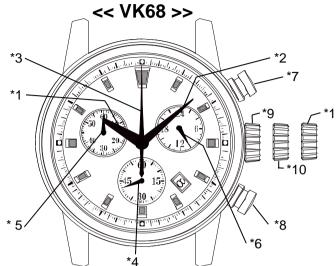
8. How to install the hands

install the hands.

*2: Minute chronograph hand and Small second hand and 24 hour hand



DISPLAY AND CROWN / BUTTON OPERATION



Note

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

*5: (60 minute)

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

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.
 - \downarrow 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. 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.



OPERATION

Version-01 Cal.VK68A

[Note]

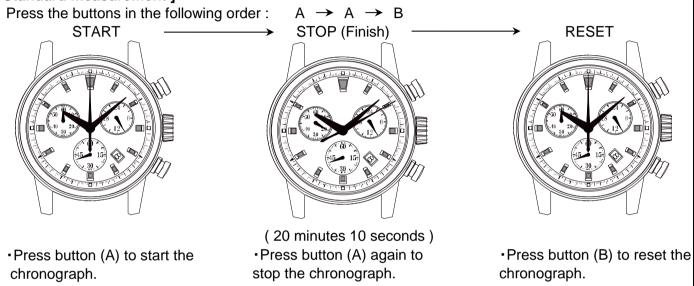
It is not necessary to set the chronograph hands after the battery is exchanged.

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]



The chronograph second hand will start moving.

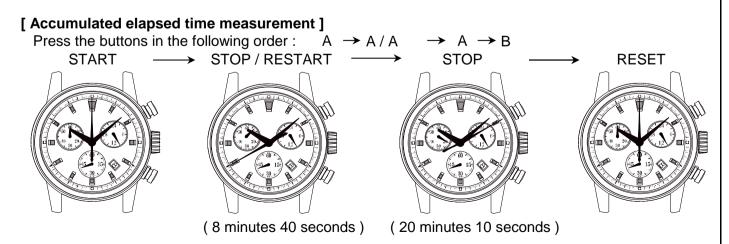
The chronograph hands stop to indicate the elapsed time.

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

Note

The chronograph can measure up to 60 minutes. The chronograph stops after a measurement for 60 minutes. *Restart by pushing button (A)

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



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