

TECHNICAL GUIDE & PARTS CATALOGUE Cal.VK61/64

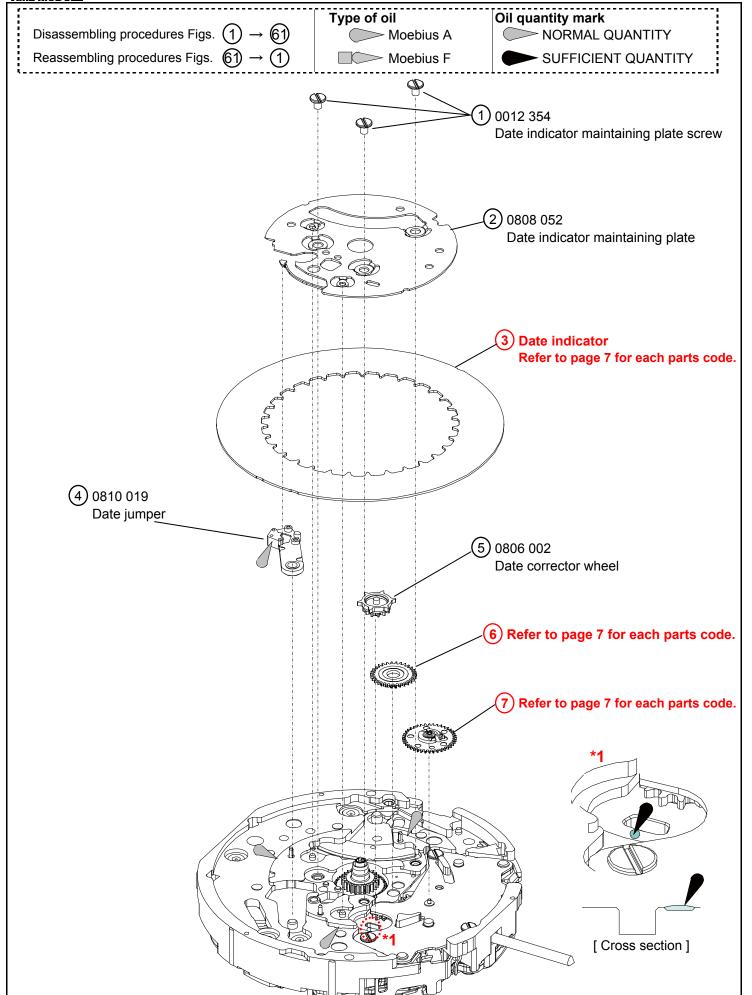
ANALOGUE QUARTZ



PARTS CATALOGUE / TECHNICAL GUIDE Cal. VK61/64

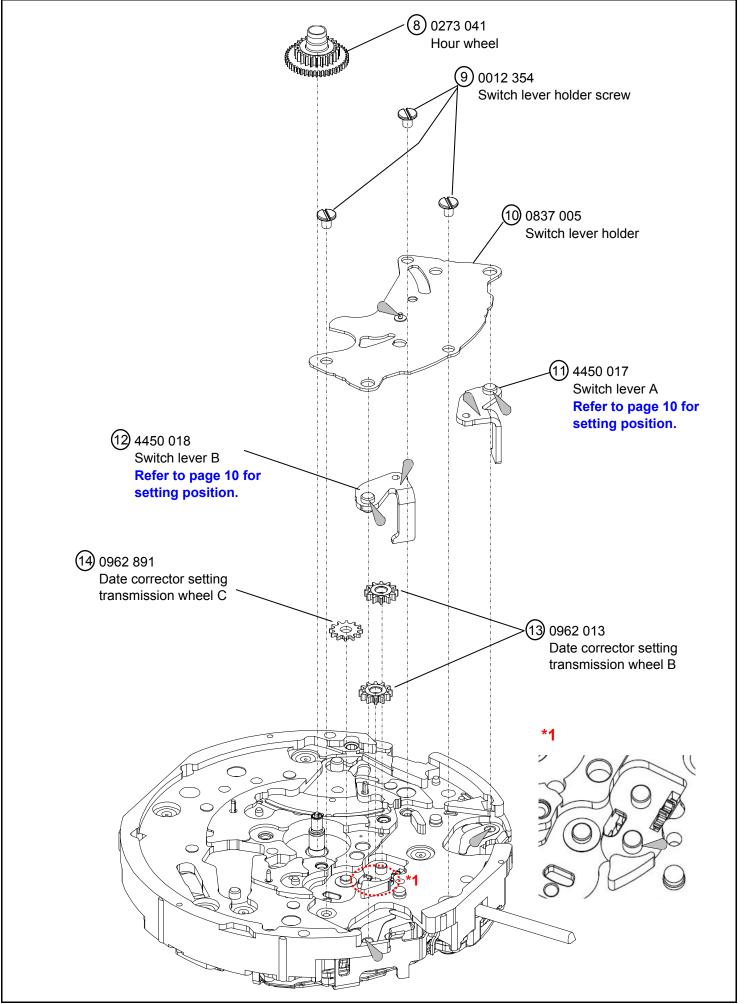
[SPECIFICATION] Version-01

[SPECIFIC	ATION]		Version-01	
Item	Cal. No.	VK61	VK64	
Movement		SIIC JAPPAN SIIC	SI CO	
	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)	0	0	
	Date Calendar	0	0	
	Small second hand (6H)	0	-	
Time indication	Center chronograph (1/5 second)	O 60 second per round	O 60 second per round	
	60 minutes counter (12H)	0	-	
	60 minutes counter (9H)	-	0	
	24 hour indicator (3H)	-	0	
Driving Sys	stem	Two pole stepping motor		
		Step motor 2 pieces Date display with quick correction		
Additional mechanism		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		





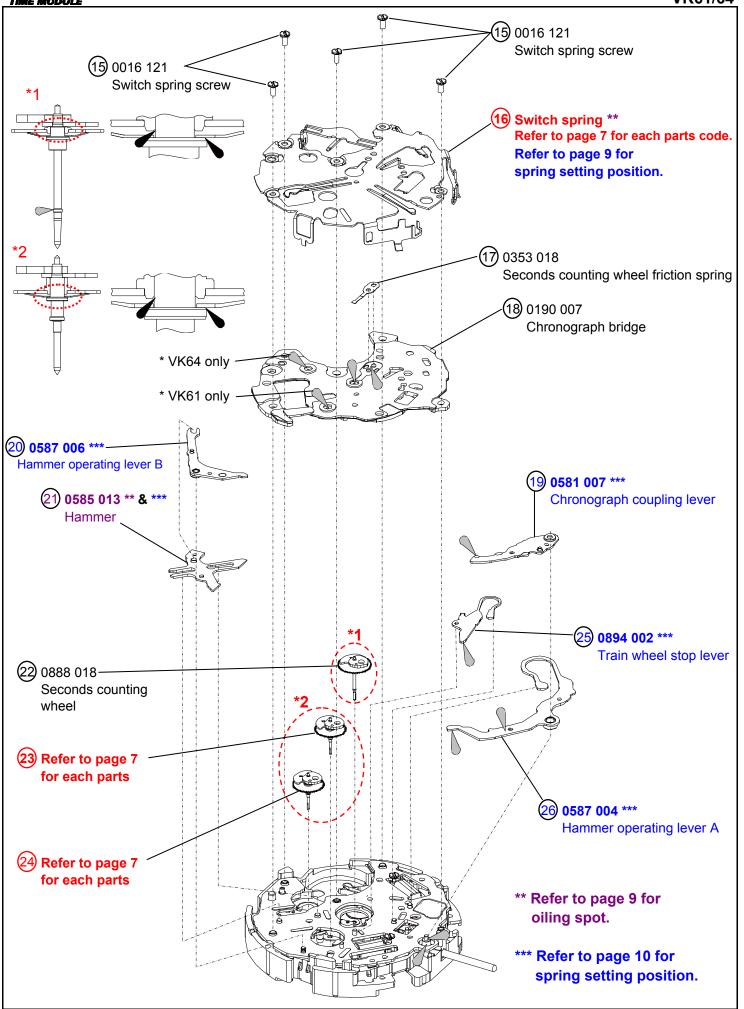




SII Products

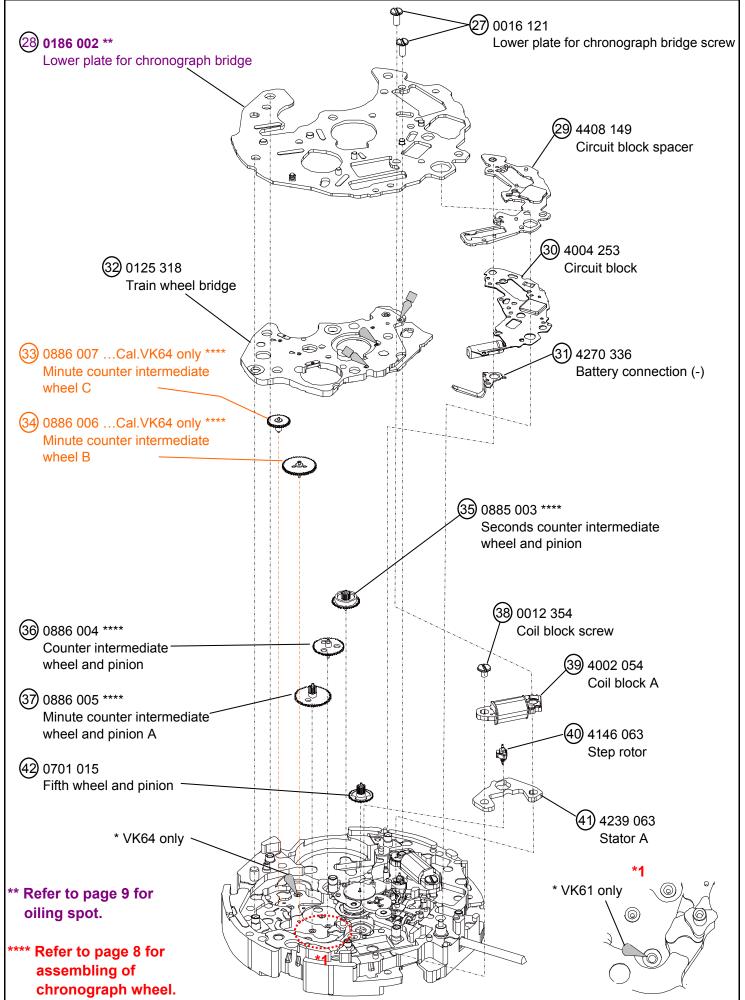
PARTS CATALOGUE



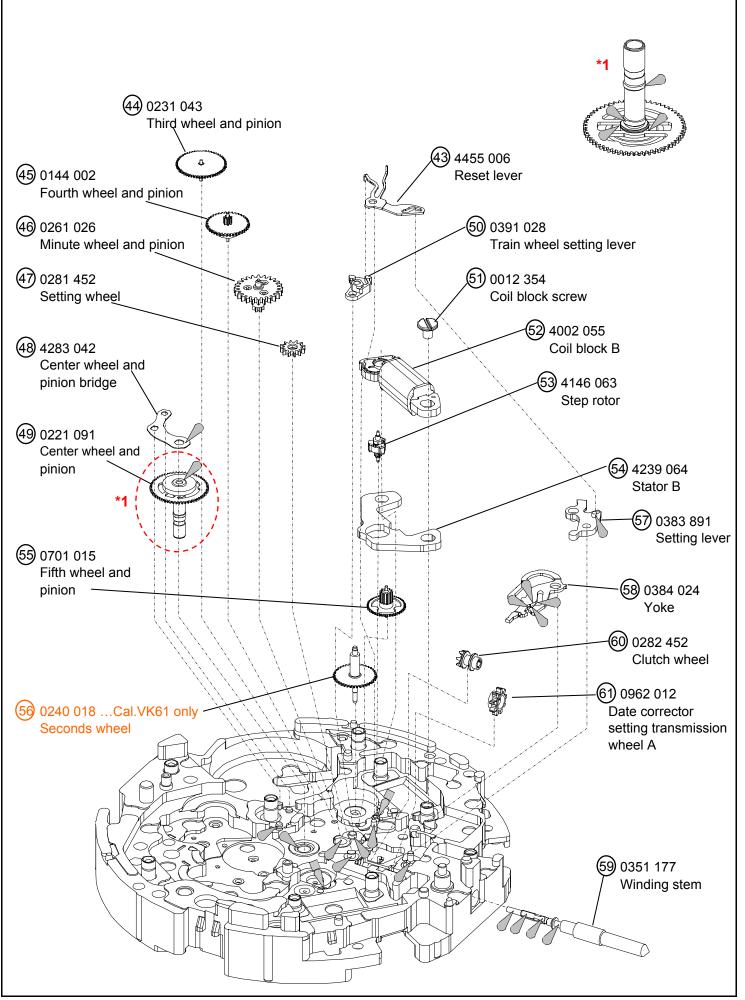












SII Products

Remarks: Different parts for each CAL.

No	Cal. VK61	VK64	Parts code	Parts name	Parts form
	-	0	0047.040	Intermediate small hour hand wheel and pinion	
6	0	-	0817 048	Intermediate date wheel and pinion	
T	-	0	0157 012	Small hour hand wheel	STOPPEN OF THE PROPERTY OF THE
9	0	1	0802 039	Date indicator driving wheel	
16	0	-	4250 058	Switch spring	SILON
9	ı	0	4250 059	(Differs by Cal. marking)	
3	-	0	0685 003	Positioning arbor	
	0	-	0902 011	Minute counting wheel	
29	-	0	0740 002	Minute counting wheel	THE STATE OF THE S
	0	-	0685 003	Positioning arbor	

[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 indicator ... Cal. / 64 common parts

پ	9 Date indicator Cat. 7 04 common parts					
	Cal.	Parts code	Crown	Date	Color of figure	Color of
	Cai.	raits code	position	position		background
Ì	VK61	0878 328	3H	3H (4.5H)	Black	White
	VNOI	0878 329	3H	3H (4.5H)	White	Black
	VK64	0148 070	3H	6H	Black	White
١	V r\04	0148 071	3H	6H	White	Black

^{*} All parts code are subject to change without notice.





1.Detailed assembling of chronograph wheel [NOTE]

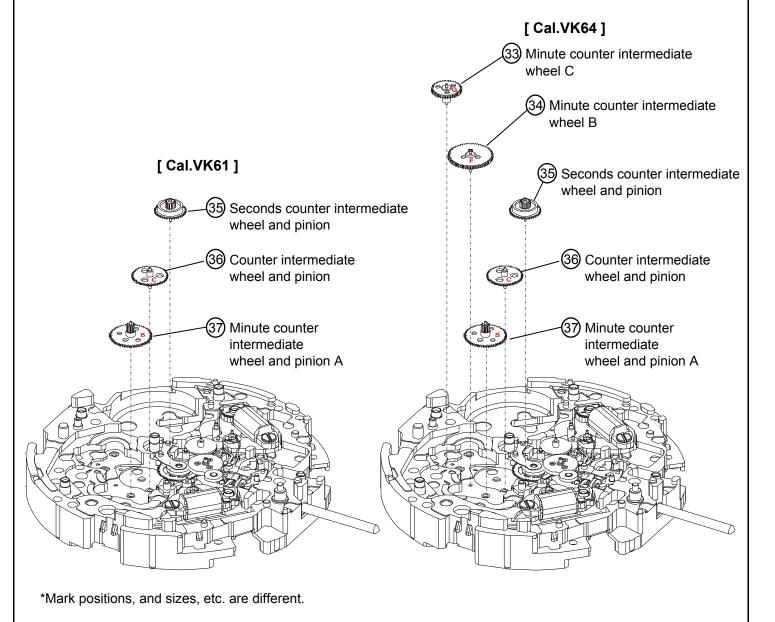
There is a mark on parts. Parts are set in order of the mark as shown in the table below.

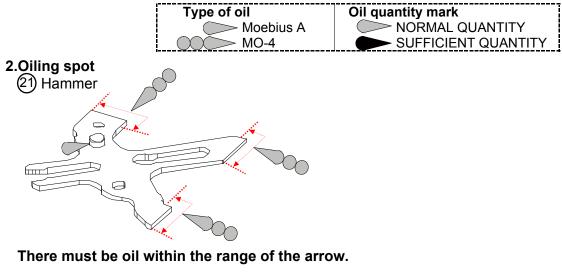


Image example of the mark

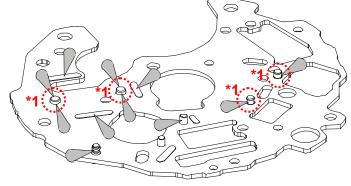
[Cal.VK61]			
Mark	Parts name		
В	37) Minute counter intermediate wheel and pinion A		
С	36 Counter intermediate wheel and pinion		
Nil	35 Second counter intermediate wheel and pinion		

[Cal.VK64]				
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 pinion			
F	34) Minute counter intermediate wheel B			
G	33 Minute counter intermediate wheel C			





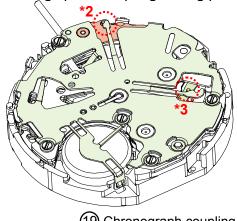
28 Lower plate for chronograph bridge

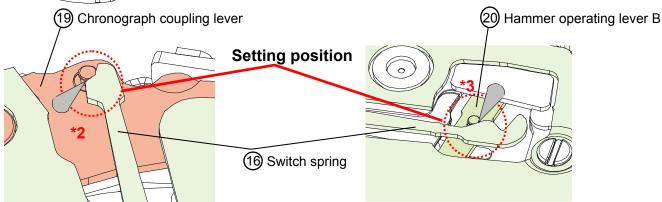


Note

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

(16) Switch spring *Oiling spot and spring setting position.

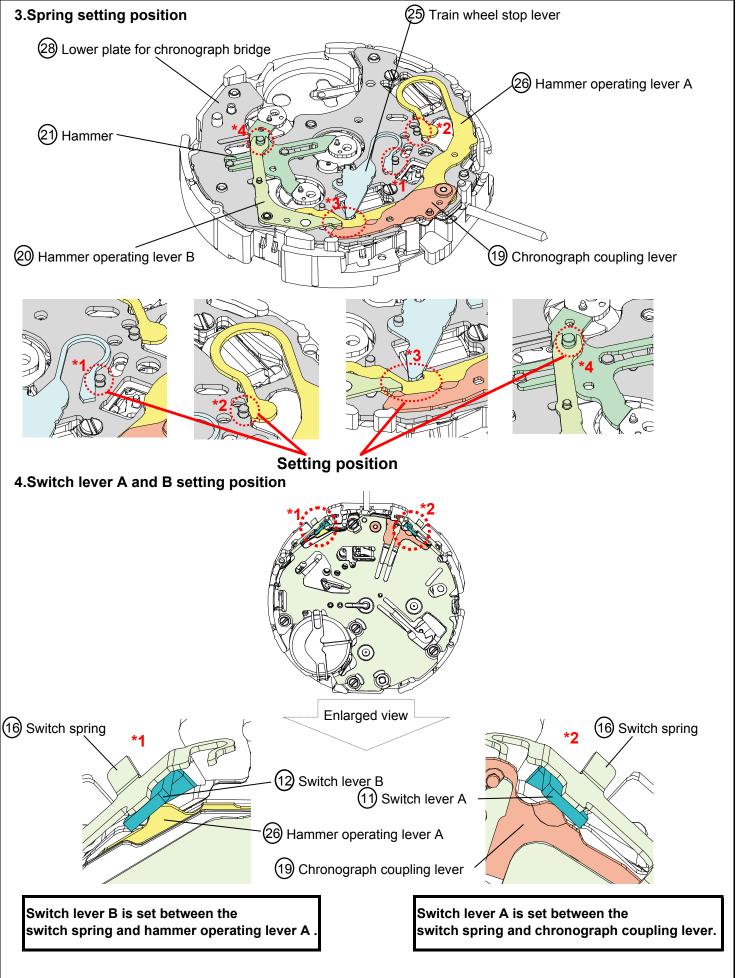




*Oiling should be done on the contact spot of the spring and the pin.





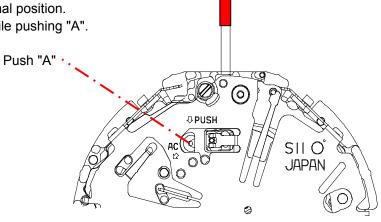






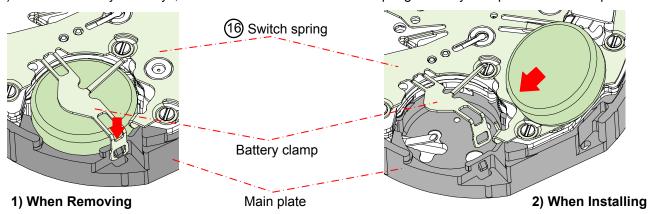
5.To remove the winding stem

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



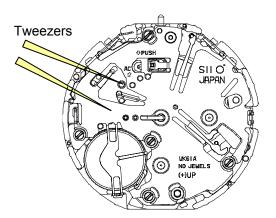
6.To remove or install the battery

- 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.



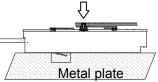
7. Remarks on installing the battery

 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.



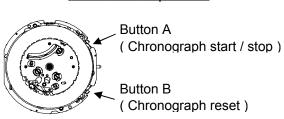
8. How to attach hands

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



[Note: Second / Minute 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.	VK61	VK64
	8 D	8 8 8 8
Second chronograph	"12" o'clock (center)	"12" o'clock (center)
Minute chronograph	"60" minute (12H)	"60" minute (9H)

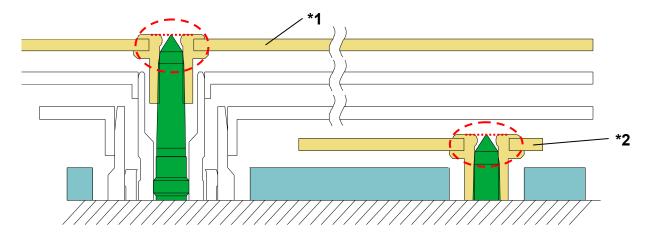
*Do not reuse the chronograph hands once detached. Please change and use new hands.

[Note: To install 24 hour hand for VK64]

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

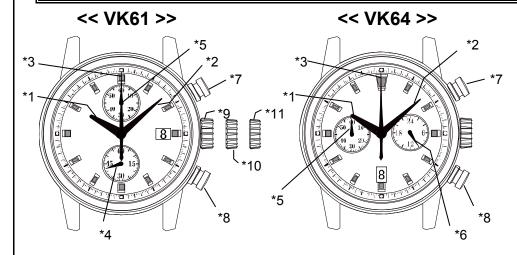
The hand's top surface should be set parallel with the axis tip, as shown below.



Application hands

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

DISPLAY AND CROWN / BUTTON OPERATION



Note

*1: Hour hand	*6: 24 hour hand	*10: Crown at first position
*2: Minute hand	*7: Button A (START / STOP)	(Date setting)
*3: Chronograph second hand	*8: Button B (RESET)	*11: Crown at second position
*4: Small second hand	*9: Crown at normal position	(Time setting)
*5: Chronograph minute hand (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 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
- Set the crown to the normal position.
 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.(VK61 only)
- 1) Pull out the crown to the second click position.
- Method $2 \lt 2$) 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.(VK61 only)
 - * If the crown is operated within this 10 seconds, the two-second interval movement will not activate.(VK61 only)

[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.

Button A (START)

Button A (STOP)

Button B (RESET)

HOW TO USE THE CHRONOGRAPH

[Standard measurement]

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

•Press button A to start the chronograph.

The chronograph second hand will start moving.

(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

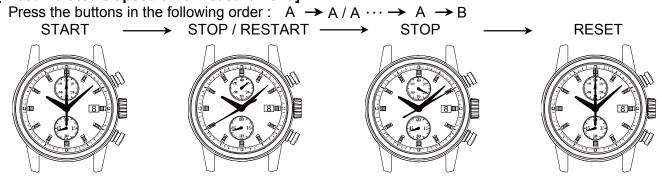
The chronograph can measure up to 60 minutes.

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.

[Accumulated elapsed time measurement]



(8 minutes 40 seconds) (20 minutes 10 seconds)

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