

TECHNICAL GUIDE & PARTS CATALOGUE

Cal.VK6 Series (VK63A/67A)

ANALOGUE QUARTZ



SPECIFICATION

Version-01 Cal.VK6 Series (VK63A/67A)

I BRE MODULE	ME MODULE (VK63A/67A)				
Item	Cal. No.	VK63A	VK67A		
Movement		OPUSH JAPAN OPUSH SHARES OF SHARES O	OPUSH OUT OUT OUT OUT OUT OUT OUT OUT OUT OUT		
Marranant	Outside diameter	φ30.80 mm × 29.10 mm (3H - 9H)			
Movement size	Casing diameter	φ29.00 mm			
3120	Total height	5.10 mm			
	2 Hands (hour, minute)	0	0		
	Date Calendar	0	0		
	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 system		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			

*Refer to page 7 for each parts code.

PARTS CATALOGUE

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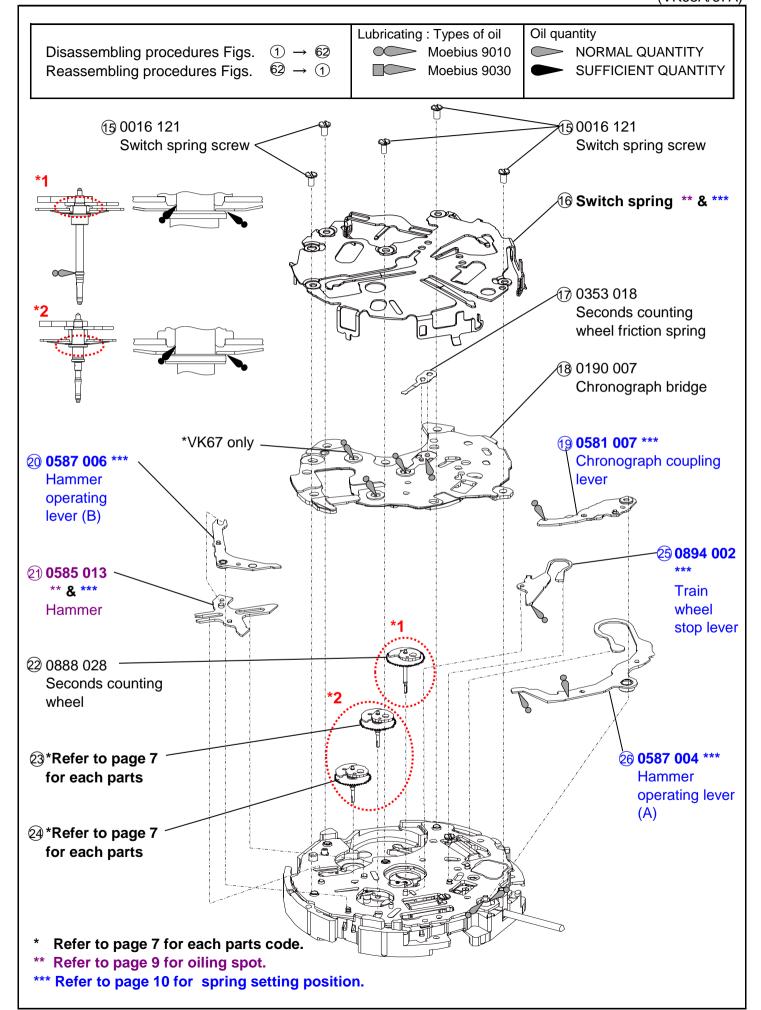
Oil quantity Lubricating: Types of oil $(1) \rightarrow (62)$ Moebius 9010 Disassembling procedures Figs. NORMAL QUANTITY Reassembling procedures Figs. Moebius 9030 SUFFICIENT QUANTITY 1)0012 354 Date indicator maintaining plate screw 2)0808 052 Date indicator maintaining plate ③*Date indicator (4)0810 019 Date jumper (5) 0806 002 Date corrector wheel ⑥*Refer to page 7 for each parts code. 7)*Refer to page 7 for each parts code.

[Cross section]

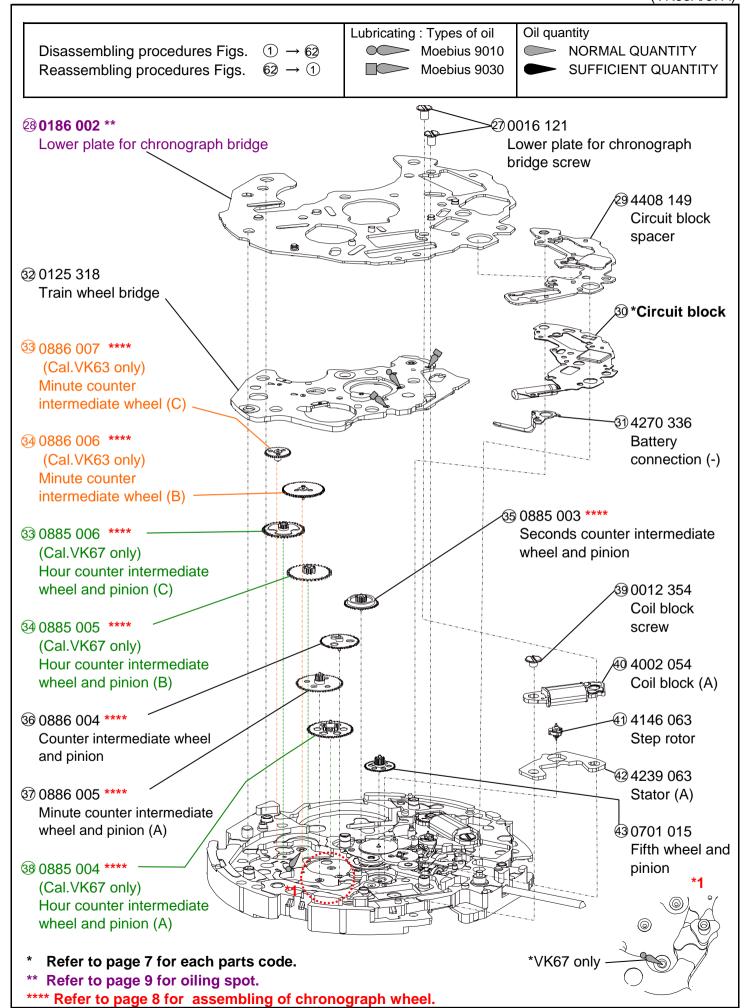
Version-01 Cal.VK6 Series (VK63A/67A)

Oil quantity Lubricating: Types of oil Disassembling procedures Figs. \bigcirc \bigcirc Moebius 9010 NORMAL QUANTITY Reassembling procedures Figs. $62 \rightarrow 1$ Moebius 9030 SUFFICIENT QUANTITY **(8)** 0273 038 Hour wheel 9 0012 354 Switch lever holder screw 10 0837 005 Switch lever holder 11) 4450 017 *** Switch lever (A) 12 4450 018 *** ~ Switch lever (B) 140962891 Date corrector setting transmission wheel (C) 13 0962 013 Date corrector setting transmission wheel (B) *** Refer to page 10 for spring setting position.

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Oil quantity Lubricating: Types of oil Disassembling procedures Figs. \bigcirc \bigcirc 62 Moebius 9010 NORMAL QUANTITY Reassembling procedures Figs. $62 \rightarrow 1$ Moebius 9030 SUFFICIENT QUANTITY 45 0231 059 Third wheel and pinion A4 4455 006 46 0144 002 Reset lever Fourth wheel and pinion *5*1 0391 028 47 0261 126 -Train wheel setting lever Minute wheel and pinion 52 0012 354 Coil block screw 48 0281 452 -**63** 4002 055 Setting wheel Coil block (B) 49 4283 042 Center wheel and £4 4146 063 pinion bridge Step rotor 50 0221 087 ~ 65 4239 064 Center wheel Stator (B) and pinion 66 0701 015 **69** 0383 891 Fifth wheel Setting lever and pinion 59 0384 024 Yoke 6) 0282 452 **67** 0240 018 · Clutch wheel Seconds wheel 62 0962 032 Date corrector setting transmission wheel (A) 60 0351 177 Winding stem



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Rei	Remarks: Different parts for each CAL.				
No	C: VK63	al. VK67	Parts code	Parts name	Parts form
6	0	-	0817 048	Intermediate small hour hand wheel and pinio	Handle St.
	ı	0	0017 046	Intermediate date wheel and pinion	E Canara
7	0	1	0157 012	Small hour hand wheel	STATE OF THE PARTY
	1	0	0802 039	Date indicator driving wheel	A CONTRACTOR OF THE PROPERTY O
16.	0	-	4250 075	Switch spring (Differs by Cal. marking)	
	1	0	4250 071		Julius and a series and a serie
23	0	ı	0685 003	Positioning arbor	
	ı	0	0902 017	Minute counting wheel	
24	0	-	0902 017	Minute counting wheel	The state of the s
	-	0	0902 017	Hour counting wheel	
30	0	-	4004 353	Circuit block	
	-	0	4004 352	OII CUIT DIUCK	

[NOTE]

About the parts code "0902 017"

About the parts code 0502 017			
	New parts		
No. 🐠	No. 23	No.23 & 24	
I	I	0902 017	

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

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

	Bate indicator (ear. vivos / e7 commen parts)				
I	Parts code	Crown	Date	Color of figure	Color of
	Paris code	position	position	Color of figure	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.

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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.

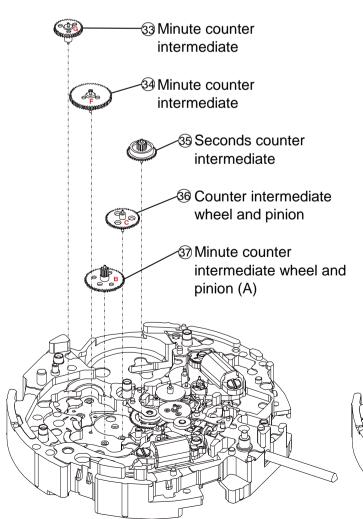


Image example of the mark

[Cal.VK63]			
Mark	Parts name		
В	Minute counter intermediate wheel and pinion (A)		
С	36 Counter intermediate wheel and pinion		
Nil	③ Seconds counter intermediate wheel and pinion		
F	34 Minute counter intermediate wheel (B)		
G	33 Minute counter intermediate wheel (C)		

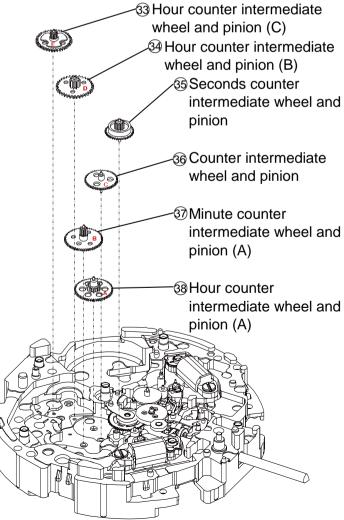
[Cal.VK67]			
Mark	Parts name		
Α	38 Hour counter intermediate wheel and pinion (A)		
В	③ Minute counter intermediate wheel and pinion (A)		
С	36 Counter intermediate wheel and pinion		
Nil	35 Seconds counter intermediate wheel and pinion		
D	34 Hour counter intermediate wheel and pinion (B)		
E	33 Hour counter intermediate wheel and pinion (C)		





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

[Cal.VK67]



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Lubricating: Types of oil

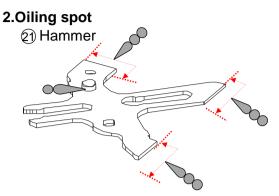
Moebius 9010

S-6

Oil quantity

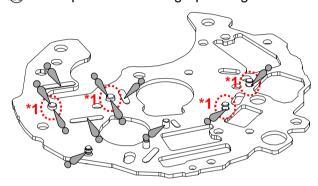
NORMAL QUANTITY

SUFFICIENT QUANTITY



There must be oil within the range of the arrow.

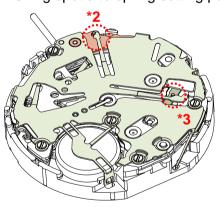
28 Lower plate for chronograph bridge

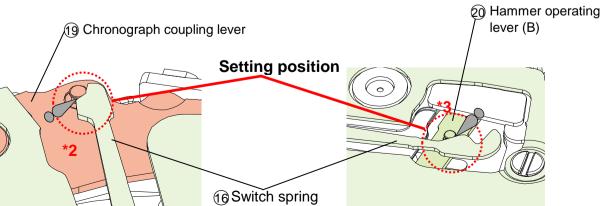


Note

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

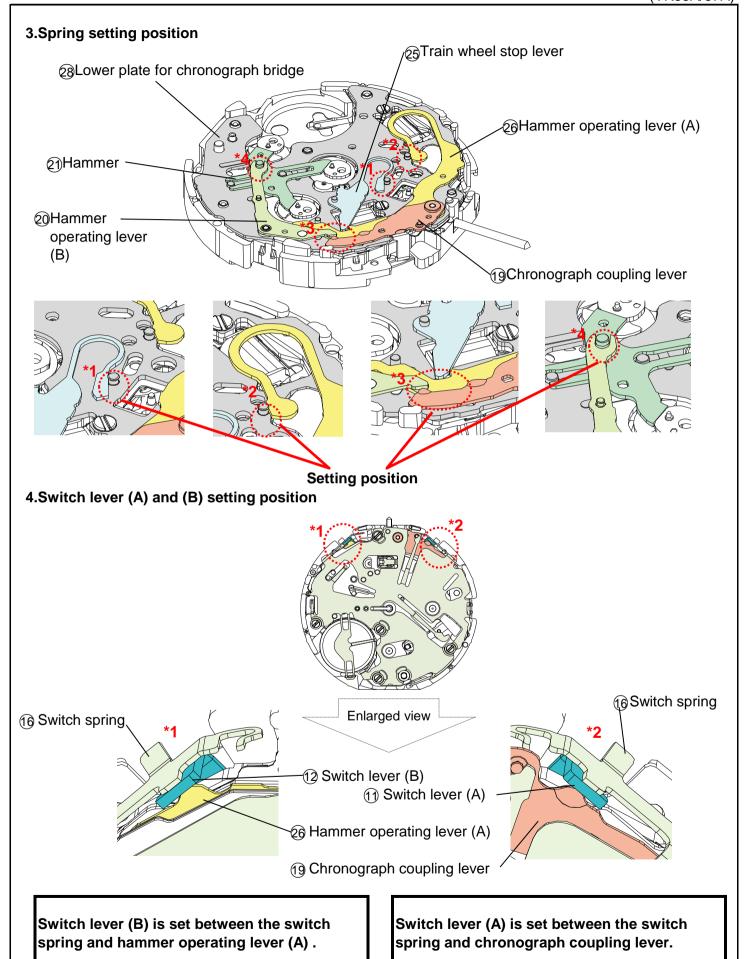
(16) Switch spring
*Oiling spot and spring setting position.





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

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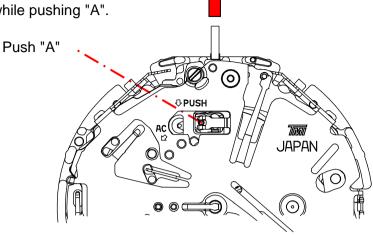


10



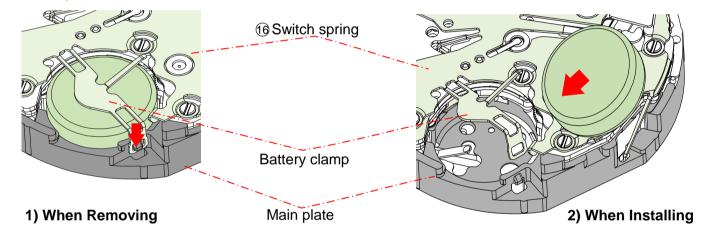
5.To remove the winding stem

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



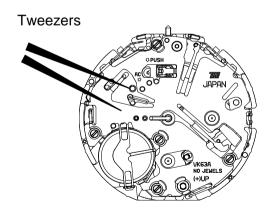
6.To remove or install the battery

- 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.





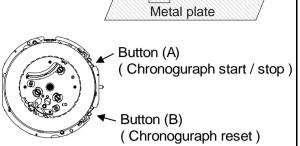
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8. How to install the hands

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.	VK63	VK67
		50 10 10 29,
Second chronograph	"12" o'clock (center)	"12" o'clock (center)
Minute chronograph	"60" minute (9H)	"60" minute (12H)
Hour chronograph	1	"12" hour (9H)

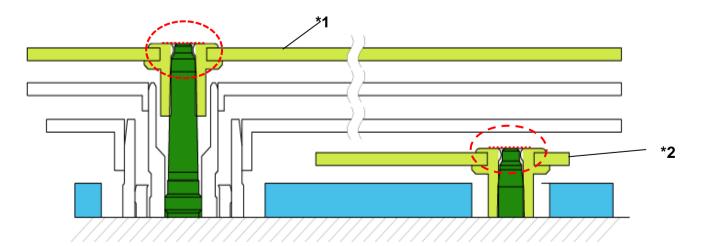
*Do not reuse the chronograph hands once detached. Please change and use new hands.

[Note: To install 24 hour hand for VK63]

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.



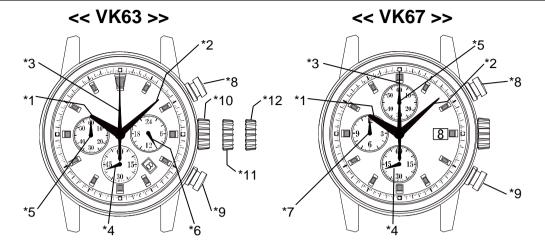
Application hands

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

OPERATION

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DISPLAY AND CROWN / BUTTON OPERATION



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)	(Time setting)
*5: Chronograph minute hand	*9: Button (B) (RESET)	
3. (60 minute)	*10: Crown at normal position	

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≺

- 1) Set the crown to the normal position.
- 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.
- 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

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[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) (RESET)

HOW TO USE THE CHRONOGRAPH

[Standard measurement]

•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 / 67 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)

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