



TECHNICAL GUIDE & PARTS CATALOGUE

Cal.VK83A

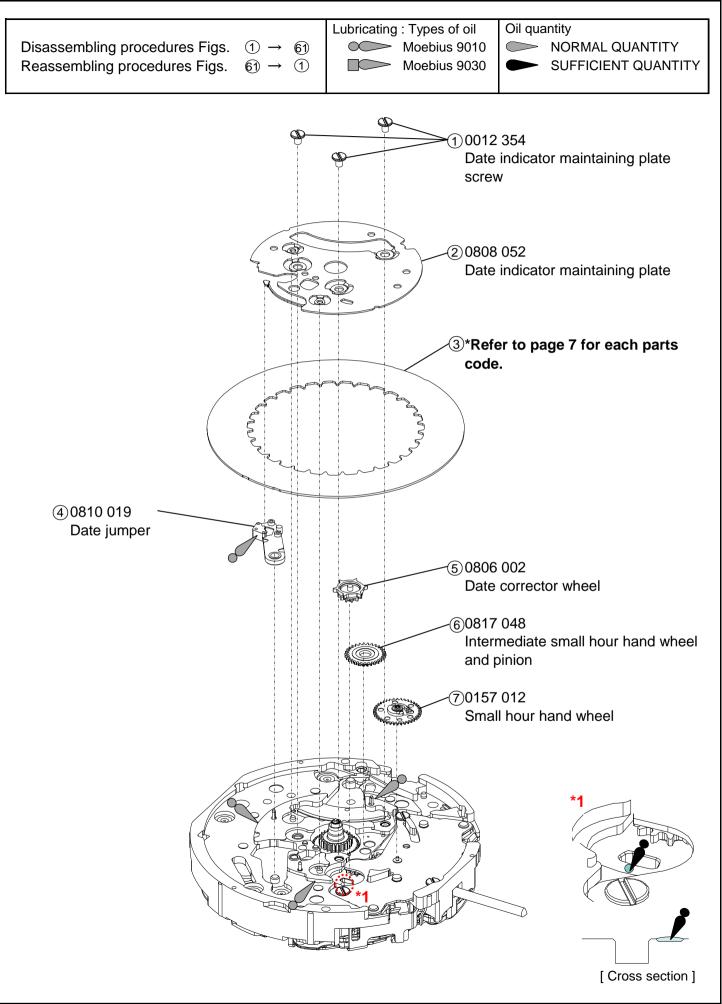
ANALOGUE QUARTZ



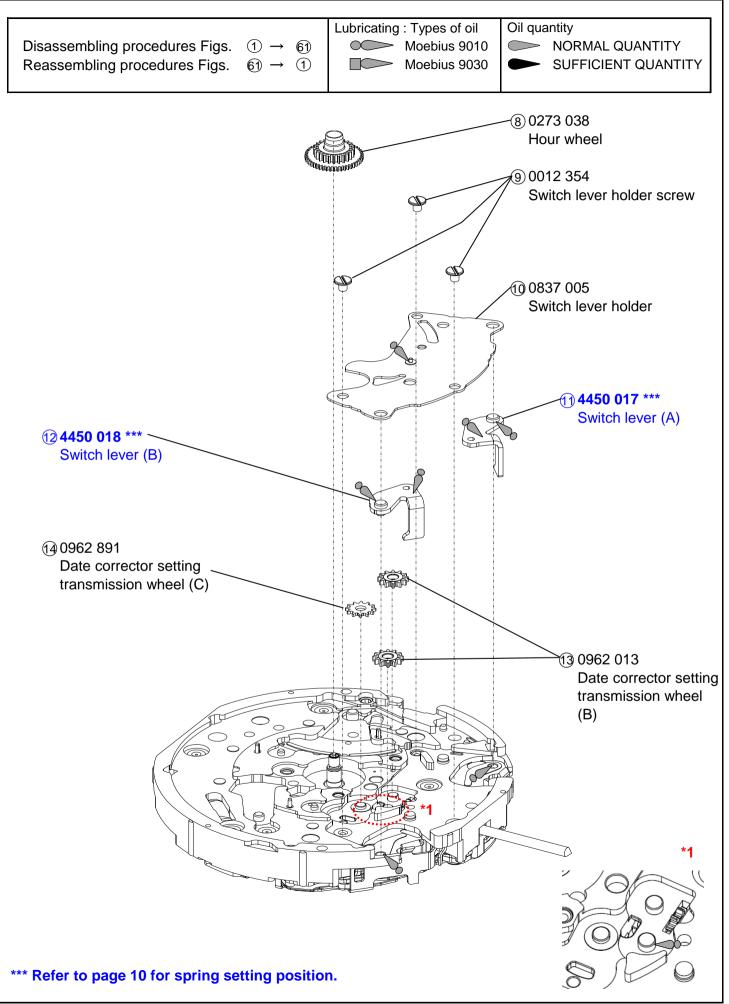
SPECIFICATION

Cal. No.		VK83A		
Movement		PUSH PUSH POCO PUSH		
	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)		
		Date Calendar		
Time indicat	ion	Small second hand (6H)		
nme indical	1011	Center chronograph (1/5 second)		
		20 minutes counter (9H)		
		24 hour indicator(3H)		
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		

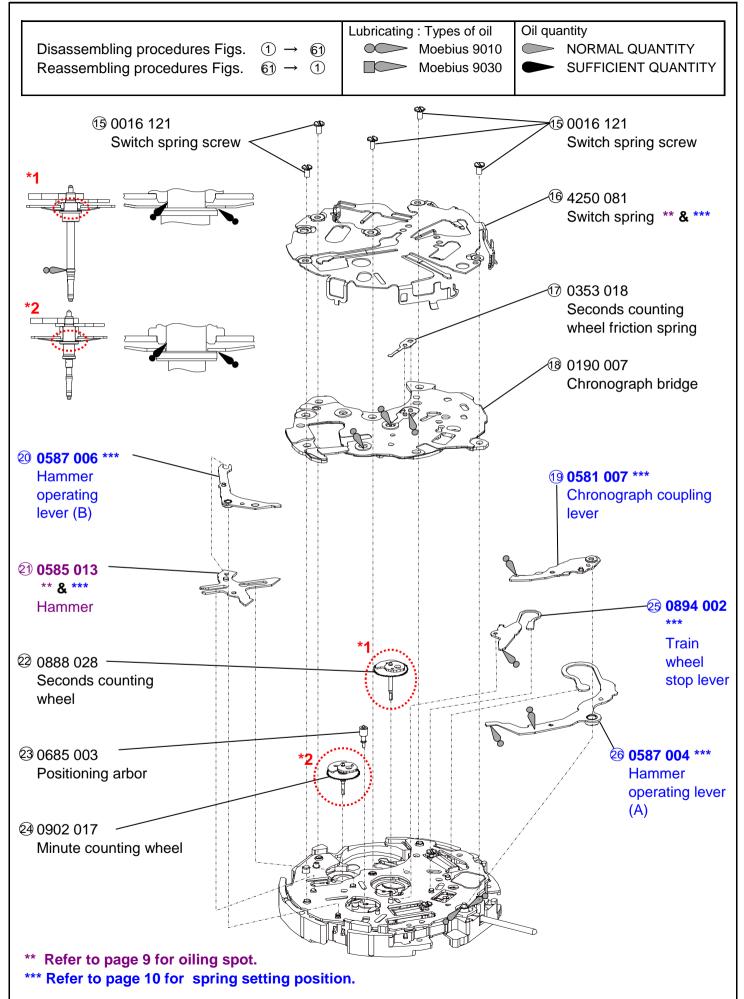




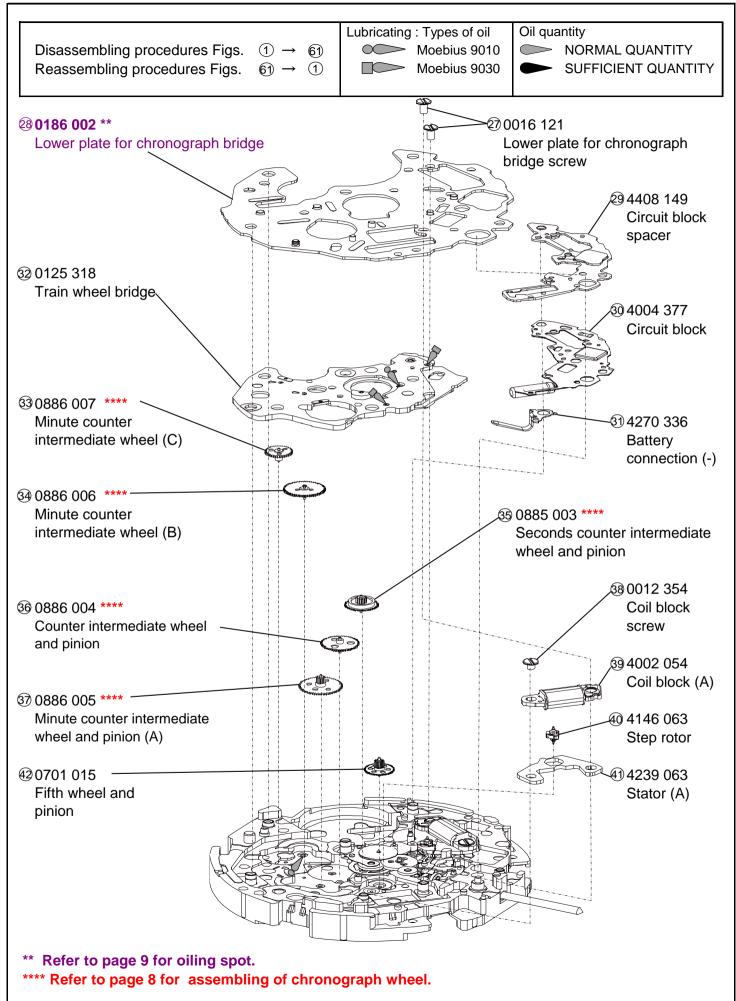




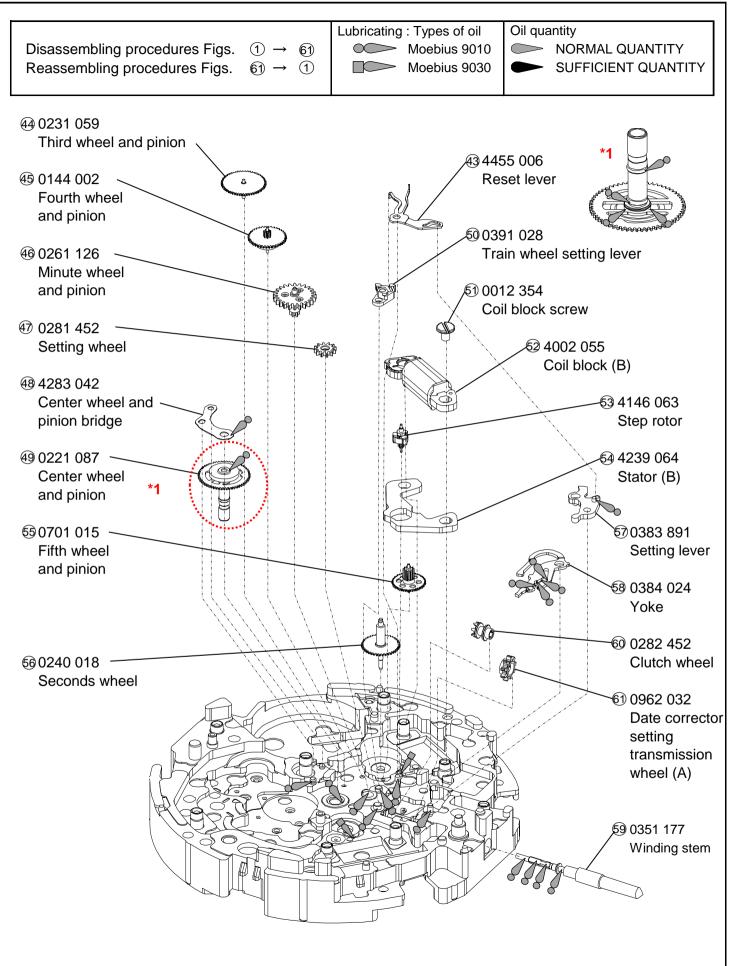










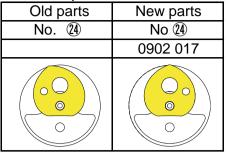




Version-01 Cal.VK83A

[NOTE]

About the parts code "0902 017"



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

③ Date indicator

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

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

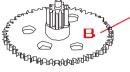
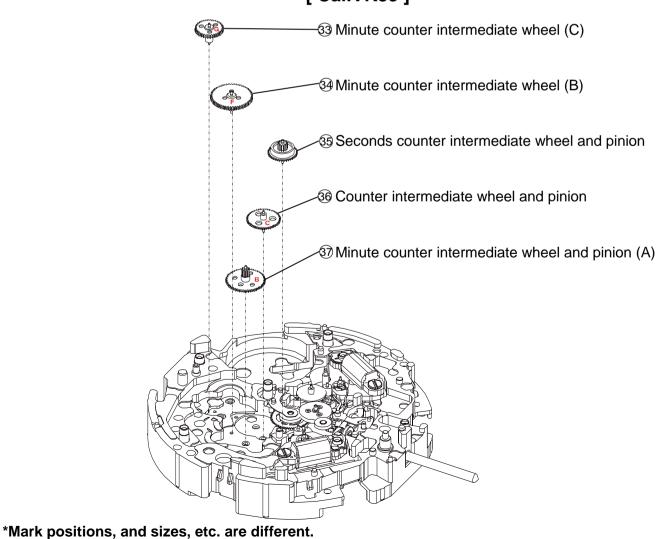


Image example of the mark

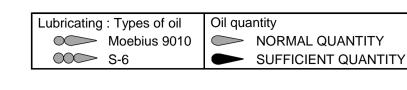
[Cal.VK83]				
Mark	Parts name			
В	③ Minute counter intermediate wheel and pinion (A)			
С	36 Counter intermediate wheel and pinion			
Nil	35 Seconds counter intermediate wheel and pinion			
F	③ Minute counter intermediate wheel (B)			
G	③ Minute counter intermediate wheel (C)			

[Cal.VK83]

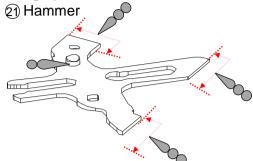




Version-01 Cal.VK83A

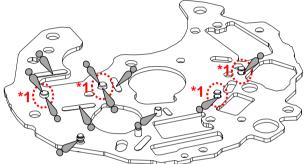


2.Oiling spot



There must be oil within the range of the arrow.

28 Lower plate for chronograph bridge

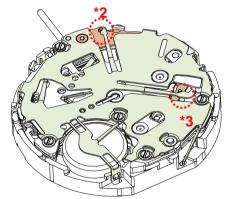


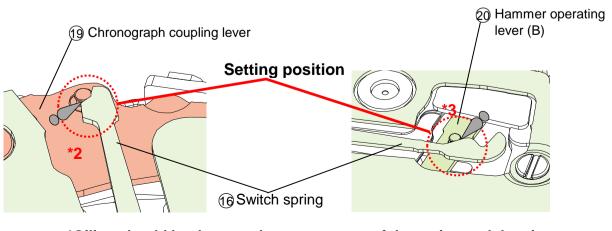
Note

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

(16 Switch spring

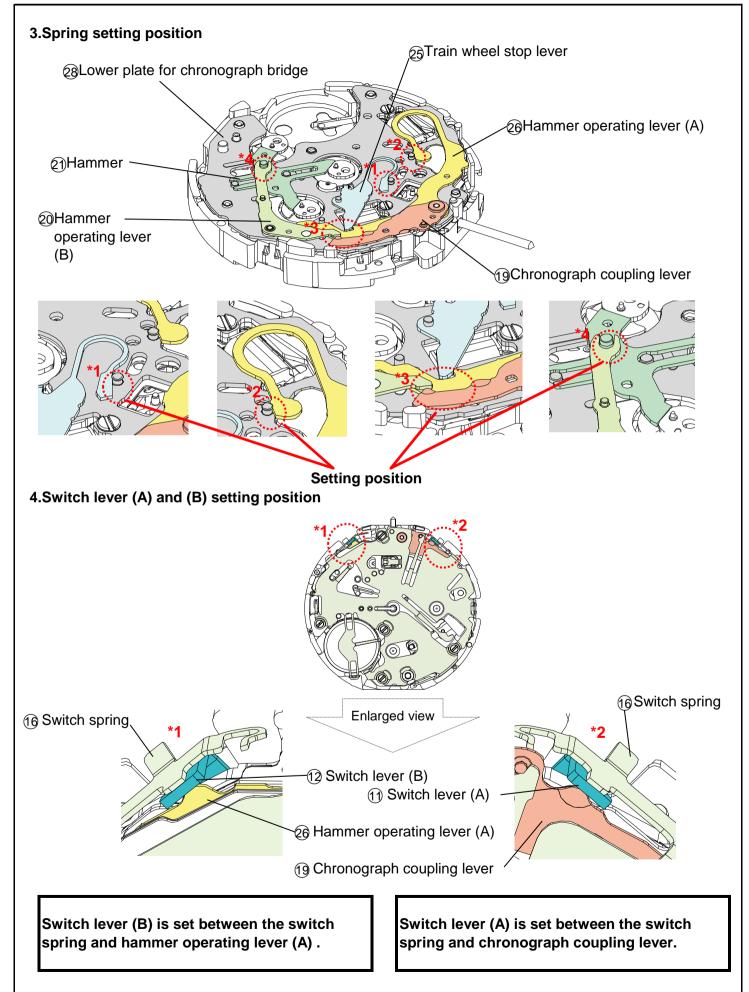
*Oiling spot and spring setting position.



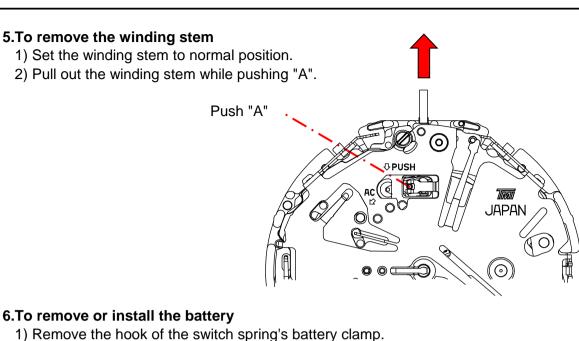


*Oiling should be done on the contact spot of the spring and the pin.

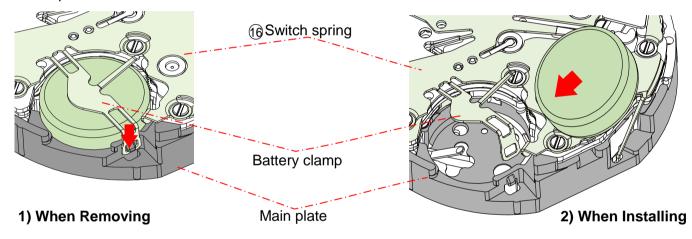






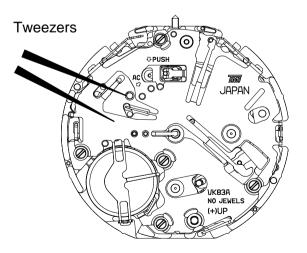


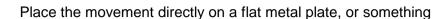
2) Insert the battery sideways, and have the hook of the switch spring's battery clamp catch the main plate.



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.



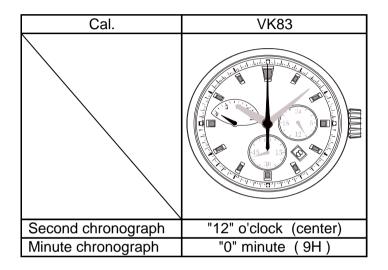


alike to install the hands.

8. How 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.



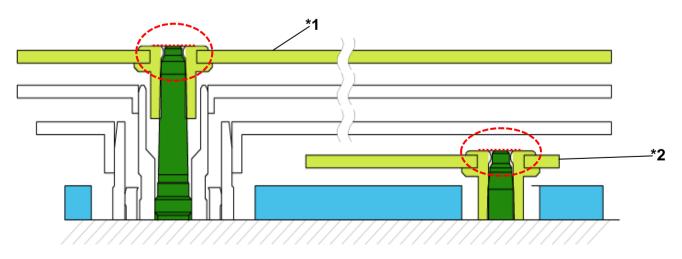
*Do not reuse the chronograph hands once detached. Please change and use new hands.

[Note: To install 24 hour hand]

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.

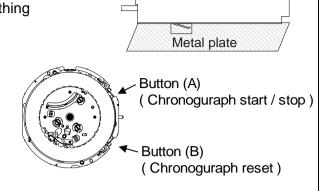
9.How to check correct hands attachment

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



Application hands

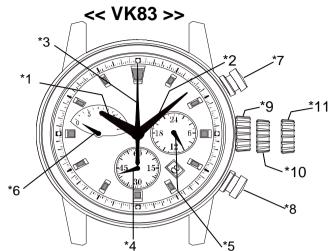
- *1: Second chronograph hand
- *2: Chronograph minute hand and Small second hand and 24 hour hand



Ъ



DISPLAY AND CROWN / BUTTON OPERATION



Note

*1: Hour hand	*6: Chronograph minute hand	*10. Crown at first position			
*2: Minute hand	(20 minute)	(Date setting)			
*3: Chronograph second hand	*7: Button (A) (START / STOP)	*11. Crown at second position			
*4: Small second hand	*8: Button (B) (RESET)	(Time setting)			
*5: 24 hour hand	*9: 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.



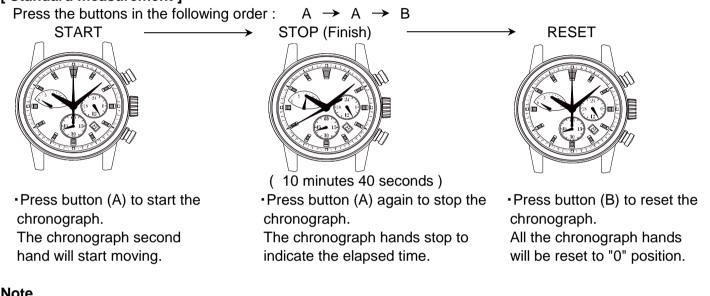
[Note]

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]



Note

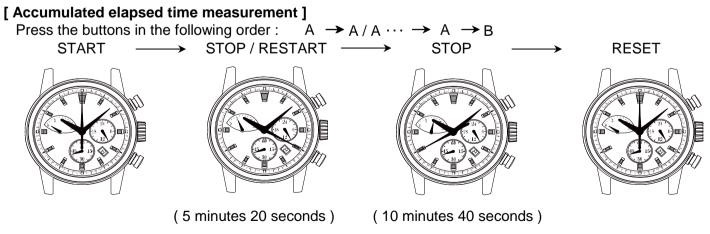
The chronograph can measure up to 20 minutes.

The chronograph stops after a measurement for 20 minutes.

*Restart in the following procedure.

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

*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)