## TECHNICAL GUIDE \& <br> PARTS CATALOGUE

## Cal.VK61/64

## ANALOGUE QUARTZ



Oil quantity mark
NORMAL QUANTITY
SUFFICIENT QUANTITY


SII Products


Lower plate for chronograph bridge
** Refer to page 9 for oiling spot.

Refer to page 8 for assembling of chronograph wheel.
(33) 0886007 ...Cal.VK64 only ** Minute counter intermediate wheel C
(34) 0886006 ...Cal.VK64 only ****

Minute counter intermediate wheel B
36) $0886004^{* * * *}$

Counter intermediate wheel and pinion
(37) $0886005^{\text {**** }}$

Minute counter intermediate wheel and pinion A
(42) 0701015

Fifth wheel and pinion

* VK64 only

* VK61 only

(a)


0016121
Lower plate for chronograph bridge screw

PARTS CATALOGUE
Remarks: Different parts for each CAL.

| No | Cal. |  | Parts code | Parts name | Parts form |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | VK61 | VK64 |  |  |  |
| (6) | - | O | 0817048 | Intermediate small hour hand wheel and pinion |  |
|  | 0 | - |  | Intermediate date wheel and pinion |  |
| (7) | - | 0 | 0157012 | Small hour hand wheel |  |
|  | 0 | - | 0802039 | Date indicator driving wheel |  |
| (16) | 0 | 0 | 4250058 4250059 | Switch spring <br> ( Differs by Cal. marking ) |  |
| (23) | - | 0 | 0685003 | Positioning arbor | $0$ |
|  | 0 | - | $\begin{gathered} 0902011 \\ \text { or } \\ 0902017 \\ \hline \end{gathered}$ | Minute counting wheel |  |
|  | - | 0 | $\begin{aligned} & \hline 0740002 \\ & \text { or } \\ & 0902017 \\ & \hline \end{aligned}$ | Minute counting wheel |  |
| (24) | 0 | - | 0685003 | Positioning arbor |  |

[ NOTE ]
How to distinguish "Parts code: 0902-011,0740-002 and 0902-017 "


Confirm shape difference to distinguish each parts.
(3) Date indicator ...Cal. / 64 common parts

| Cal. | Parts code | Crown <br> position | Date <br> position | Color of figure | Color of <br> background |
| :---: | :---: | :---: | :---: | :---: | :---: |
| VK61 | 0878328 | 3 H | $3 \mathrm{H}(4.5 \mathrm{H})$ | Black | White |
|  | 0878329 | 3 H | $3 \mathrm{H}(4.5 \mathrm{H})$ | White | Black |
| VK64 | 0148070 | 3 H | 6 H | Black | White |
|  | 0148071 | 3 H | 6 H | White | Black |

* All parts code are subject to change without notice.

TECHNICAL GUIDE
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.


| [Cal.VK64 ] |  |
| :---: | :---: |
| Mark | Parts name |
| B | (3) Minute counter intermediate wheel and pinion A |
| C | (36) Counter intermediate wheel and pinion |
| Nil | (35) Seconds counter intermediate wheel and pinion |
| F | (34) Minute counter intermediate wheel B |
| G | (33) Minute counter intermediate wheel C |


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

2.Oiling spot
(21) Hammer


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.


TECHNICAL GUIDE


## Switch lever B is set between the switch spring and hammer operating lever $A$

Switch lever A is set between the switch spring and chronograph coupling lever.

## 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

1) 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.


| Cal. | VK61 | VK64 |
| :---: | :---: | :---: |
|  |  |  |
| Second chronograph | "12" oclock (center) | "12" occlock (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

## << VK61 >>

<< VK64 >>


Note

| *1: Hour hand | *6: 24 hour hand | Crown at first position |
| :---: | :---: | :---: |
| *2: Minute hand | *7: Button A (START / STOP) | (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) |
| *5: $\begin{gathered}\text { Chronograph minute hand } \\ (60 \text { minute })\end{gathered}$ |  |  |

## 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 $1\left\{\begin{array}{l}\text { 1) Set the crown to the normal position. } \\ \text { 2) Touch the AC terminal of circuit block and the switch spring with conductive tweezers }\end{array}\right.$ to reset the circuit.
3) The small second hand will move at two-second interval for 10 seconds.(VK61 only)

Method $2\left\{\begin{array}{l}\text { 1) Pull out the crown to the second click position. } \\ \text { 2) Press the button } B \text { for two seconds and release the button. } \\ \text { 3) Push the }\end{array}\right.$
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 <br> (START) |
| :--- | | Button A |
| :---: |
| (STOP) |$\quad \searrow$| Button B |
| :--- |
| (RESET) |

## HOW TO USE THE CHRONOGRAPH

[ Standard measurement ]
Press the buttons in the following order: $\mathrm{A} \rightarrow \mathrm{A} \rightarrow \mathrm{B}$

( 20 minutes 10 seconds )

- Press button A again to stop the chronograph.
The chronograph hands stop to indicate the elapsed time.


## 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 ]

Press the buttons in the following order: $A \rightarrow A / A \cdots \rightarrow A \rightarrow B$ START $\longrightarrow$ STOP/RESTART $\longrightarrow$ STOP $\longrightarrow$ $\longrightarrow$ RESET

( 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

