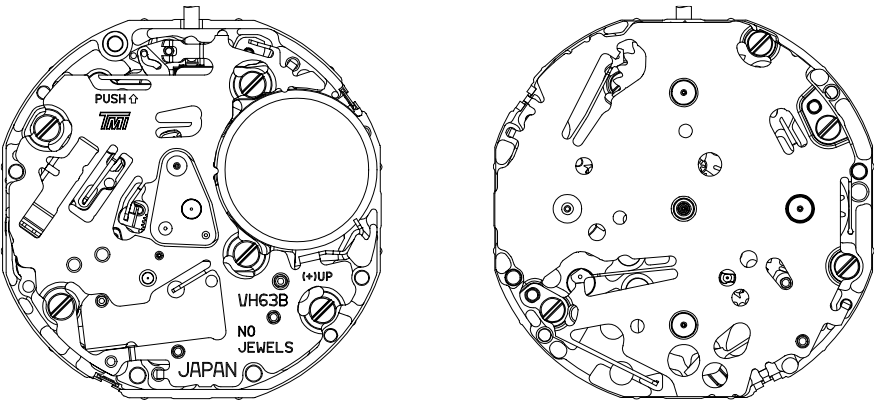


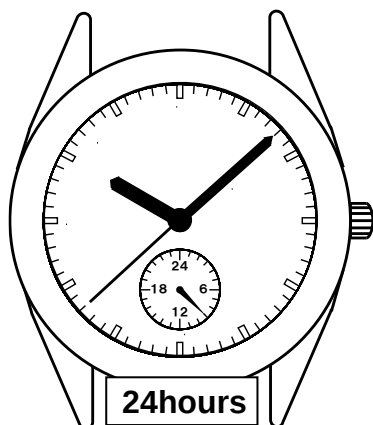
**TECHNICAL GUIDE  
&  
PARTS CATALOGUE**

**Cal.VH6 Series  
(VH60B/61B/63B/64B/65B/67B/68B)**

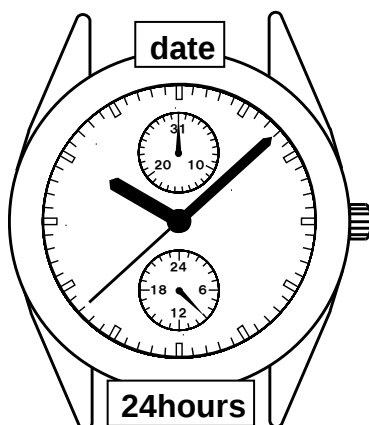
**ANALOGUE QUARTZ**

| Cal. No.                        |                                | VH63B                                                                                                                                                     |       |       |       |       |       |       |  |
|---------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|--|
| Item                            |                                |                                                                                                                                                           |       |       |       |       |       |       |  |
| Movement                        |                                |  <p><b>*Refer to the pages 2 for other Cal. No. specifications.</b></p> |       |       |       |       |       |       |  |
| Movement size                   | Outside diameter               | φ23.70 mm<br>22.60 mm : between 12 o'clock and 6 o'clock sides<br>22.60 mm : between 3 o'clock and 9 o'clock sides                                        |       |       |       |       |       |       |  |
|                                 | Casing diameter                | φ23.30 mm<br>22.10 mm : between 12 o'clock and 6 o'clock sides<br>21.40 mm : between 3 o'clock and 9 o'clock sides                                        |       |       |       |       |       |       |  |
|                                 | Total height                   | 3.45 mm                                                                                                                                                   |       |       |       |       |       |       |  |
| Time indication                 | Cal. No.                       | VH60B                                                                                                                                                     | VH61B | VH63B | VH64B | VH65B | VH67B | VH68B |  |
|                                 | 3 Hands (Hour, Minute, Second) | ○                                                                                                                                                         | ○     | ○     | ○     | ○     | ○     | ○     |  |
|                                 | 24 Hour hand (6H)              | ○                                                                                                                                                         | ○     | ○     | —     | —     | ○     | ○     |  |
|                                 | Date Calendar Hand (3H)        | —                                                                                                                                                         | —     | ○     | ○     | ○     | —     | —     |  |
|                                 | Date Calendar Hand (2H)        | —                                                                                                                                                         | —     | —     | —     | —     | —     | ○     |  |
|                                 | Date Calendar Hand (12H)       | —                                                                                                                                                         | ○     | —     | —     | —     | ○     | —     |  |
|                                 | Day Calendar Hand (9H)         | —                                                                                                                                                         | —     | ○     | ○     | —     | ○     | —     |  |
|                                 | Day Calendar Hand (10H)        | —                                                                                                                                                         | —     | —     | —     | —     | —     | ○     |  |
| Driving system                  |                                | Step motor                                                                                                                                                |       |       |       |       |       |       |  |
| Additional mechanism            |                                | Electronic circuit reset switch<br>Second setting device                                                                                                  |       |       |       |       |       |       |  |
| Antimagnetic                    |                                | ≥ 1600 A/m                                                                                                                                                |       |       |       |       |       |       |  |
| Accuracy                        |                                | Less than ± 15 seconds : Monthly rate at normal temperature range                                                                                         |       |       |       |       |       |       |  |
| Battery                         |                                | SR920SW (Silver oxide battery)<br>Battery life is approximately 2 years                                                                                   |       |       |       |       |       |       |  |
| Measuring gate by quartz tester |                                | Use 10 second gate<br>* Set the winding stem with crown at the normal position                                                                            |       |       |       |       |       |       |  |
| Jewels                          |                                | 0 Jewel                                                                                                                                                   |       |       |       |       |       |       |  |

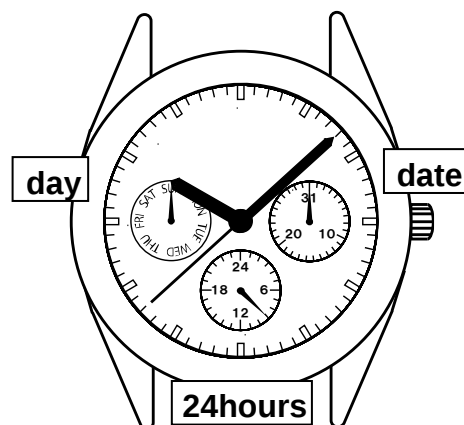
**VH60B**



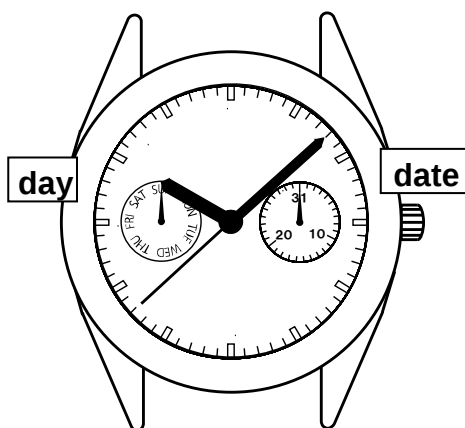
**VH61B**



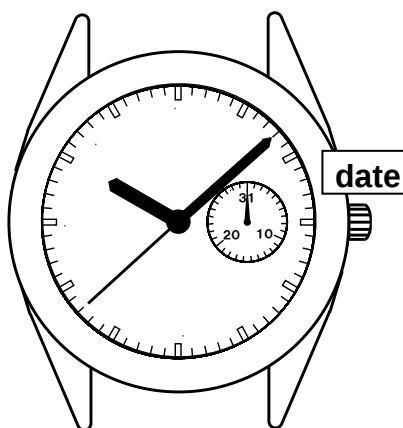
**VH63B**



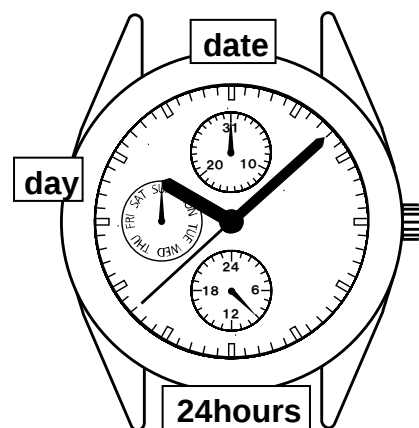
**VH64B**



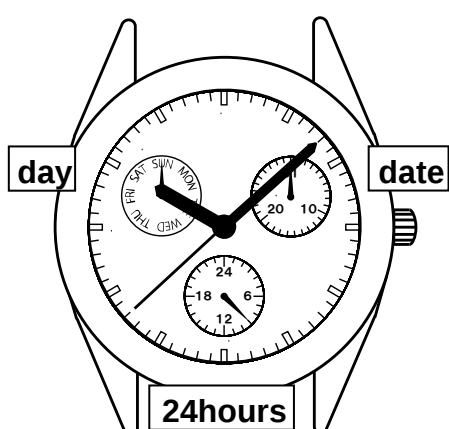
**VH65B**



**VH67B**

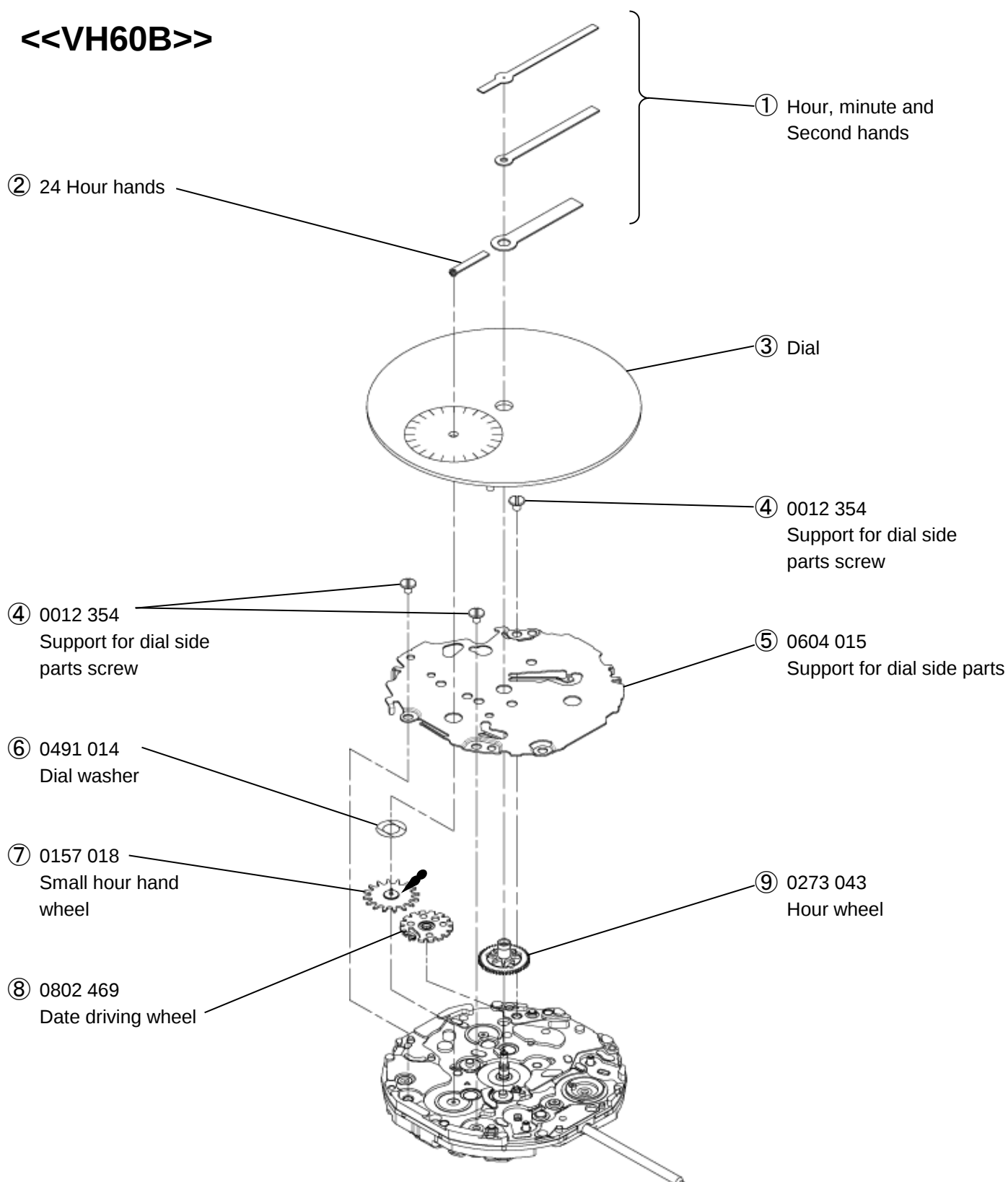


**VH68B**



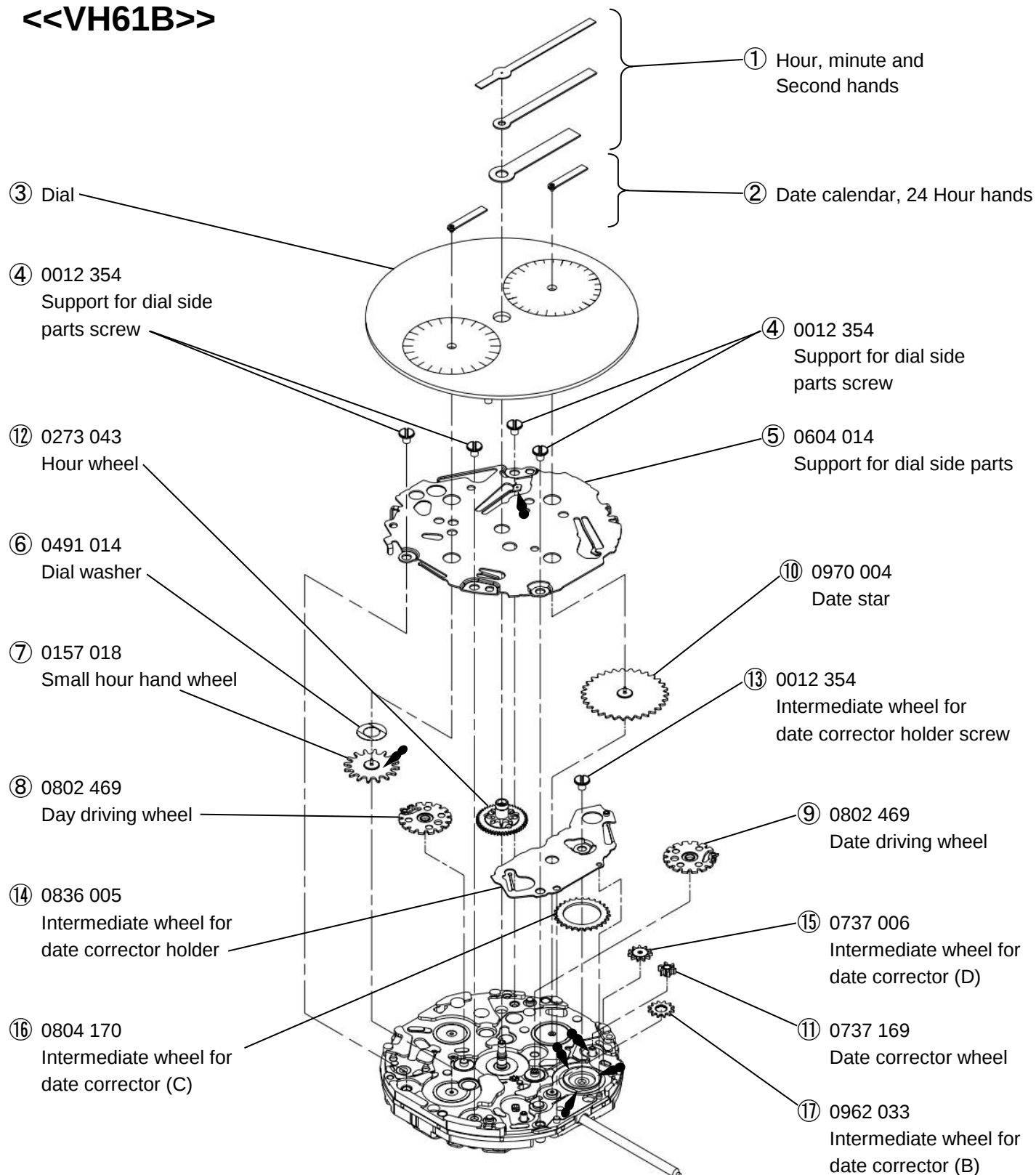
|                                       |                                                                                                                                                                                                                |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Disassembling procedures Figs. ① → ④⑥ | Lubricating : Types of oil                                                                                                                                                                                     |
| Reassembling procedures Figs. ④⑥ → ①  |  A3a / Moebius 9010<br> A2a / Moebius 9030 |
|                                       | Oil quantity                                                                                                                                                                                                   |
|                                       |  Normal quantity<br> Sufficient quantity   |

## <<VH60B>>



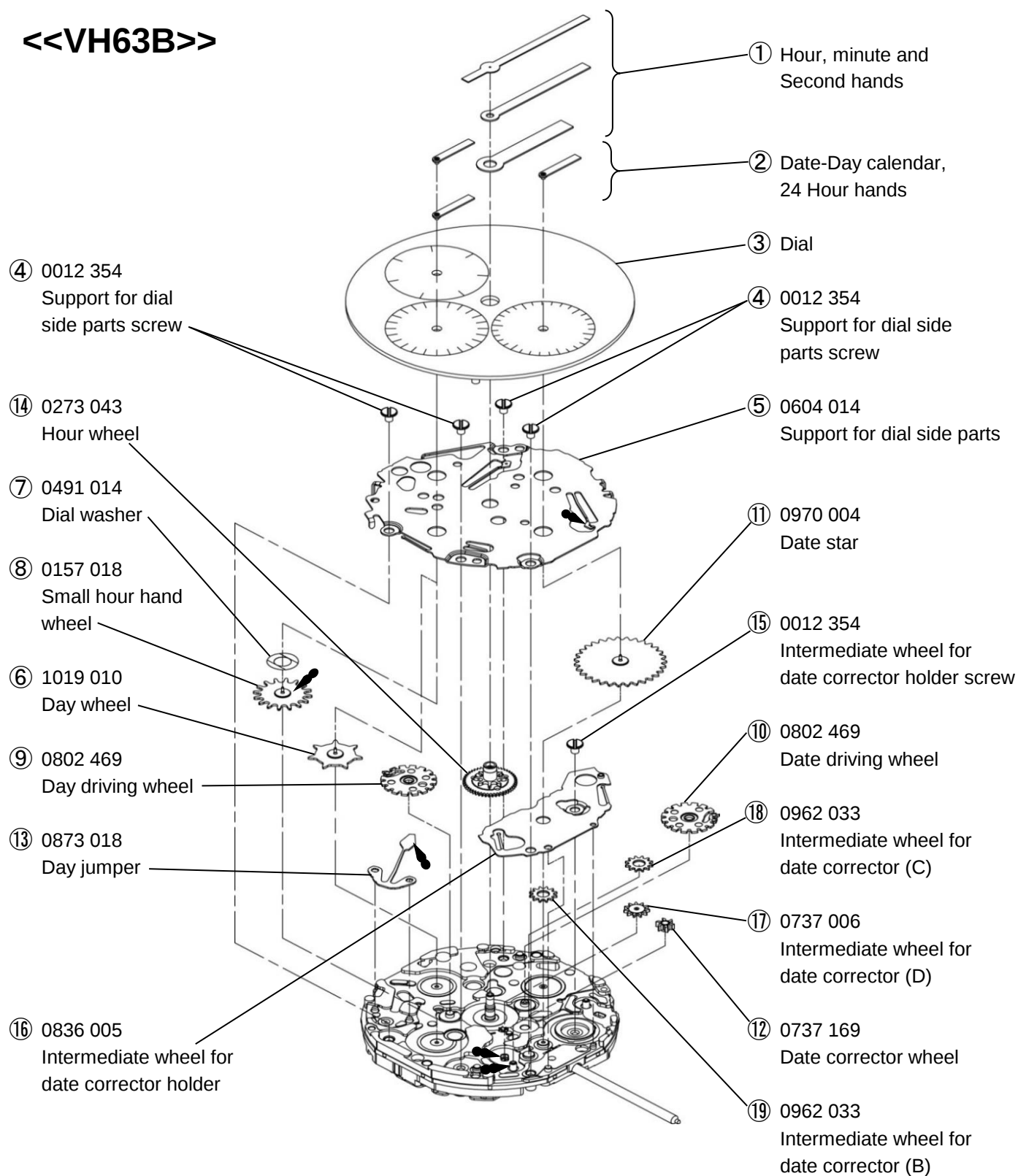
|                                       |                                                                                                                                                                                                                |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Disassembling procedures Figs. ① → ④⑥ | Lubricating : Types of oil                                                                                                                                                                                     |
| Reassembling procedures Figs. ④⑥ → ①  |  A3a / Moebius 9010<br> A2a / Moebius 9030 |
|                                       | Oil quantity                                                                                                                                                                                                   |
|                                       |  Normal quantity<br> Sufficient quantity   |

## <<VH61B>>



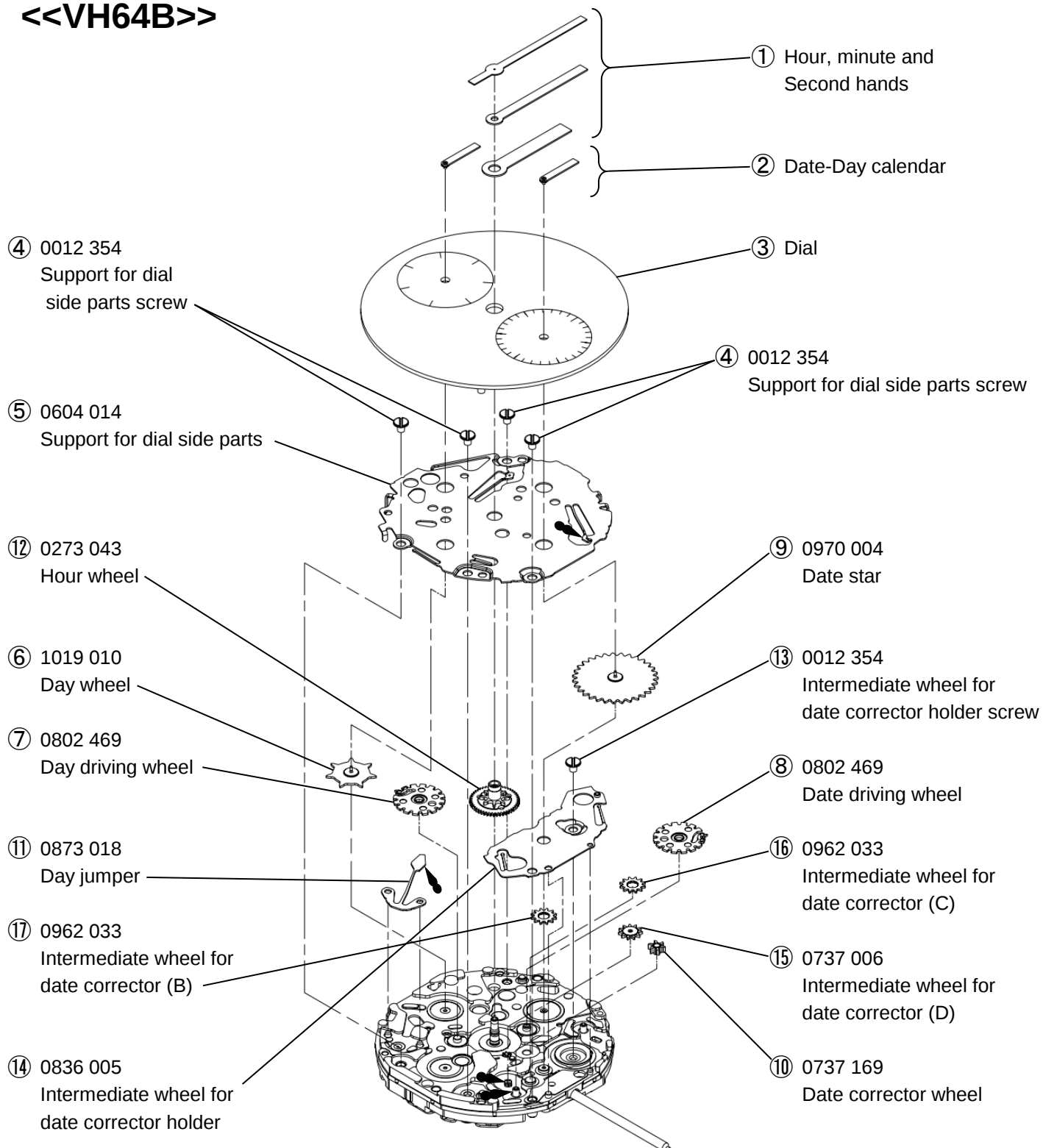
|                                       |                                                                                                                                                                                                                |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Disassembling procedures Figs. ① → ④⑥ | Lubricating : Types of oil                                                                                                                                                                                     |
| Reassembling procedures Figs. ④⑥ → ①  |  A3a / Moebius 9010<br> A2a / Moebius 9030 |
|                                       | Oil quantity                                                                                                                                                                                                   |
|                                       |  Normal quantity<br> Sufficient quantity   |

## <<VH63B>>



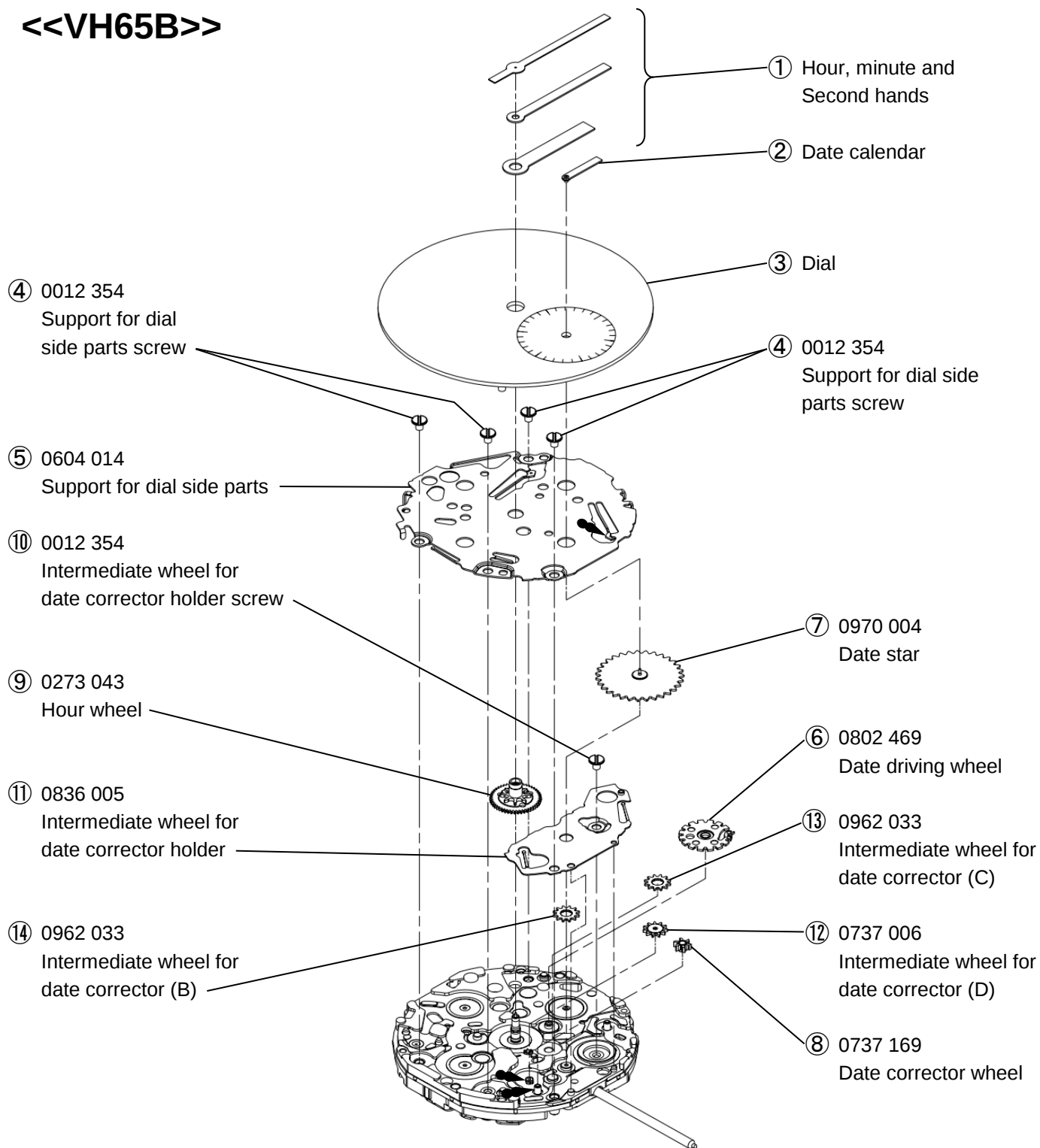
|                                       |                                                                                                                                                                                                                |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Disassembling procedures Figs. ① → ④⑥ | Lubricating : Types of oil                                                                                                                                                                                     |
| Reassembling procedures Figs. ④⑥ → ①  |  A3a / Moebius 9010<br> A2a / Moebius 9030 |
|                                       | Oil quantity                                                                                                                                                                                                   |
|                                       |  Normal quantity<br> Sufficient quantity   |

## <<VH64B>>



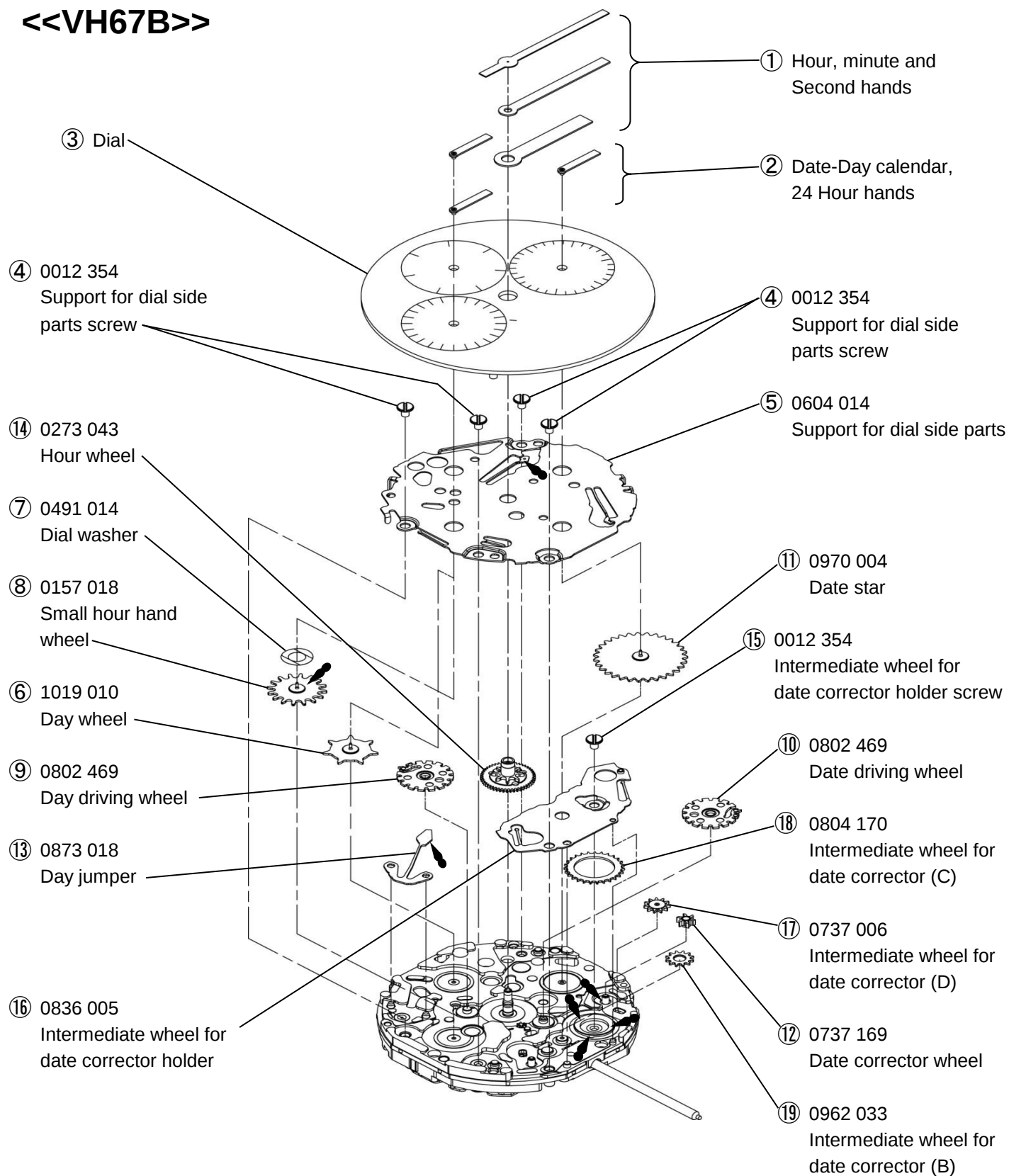
|                                       |                                                                                                 |                     |
|---------------------------------------|-------------------------------------------------------------------------------------------------|---------------------|
| Disassembling procedures Figs. ① → ④⑥ | Lubricating : Types of oil                                                                      |                     |
|                                       |               | A3a / Moebius 9010  |
| Reassembling procedures Figs. ④⑥ → ①  |               | A2a / Moebius 9030  |
|                                       | Oil quantity  | Normal quantity     |
|                                       |               | Sufficient quantity |

## <<VH65B>>



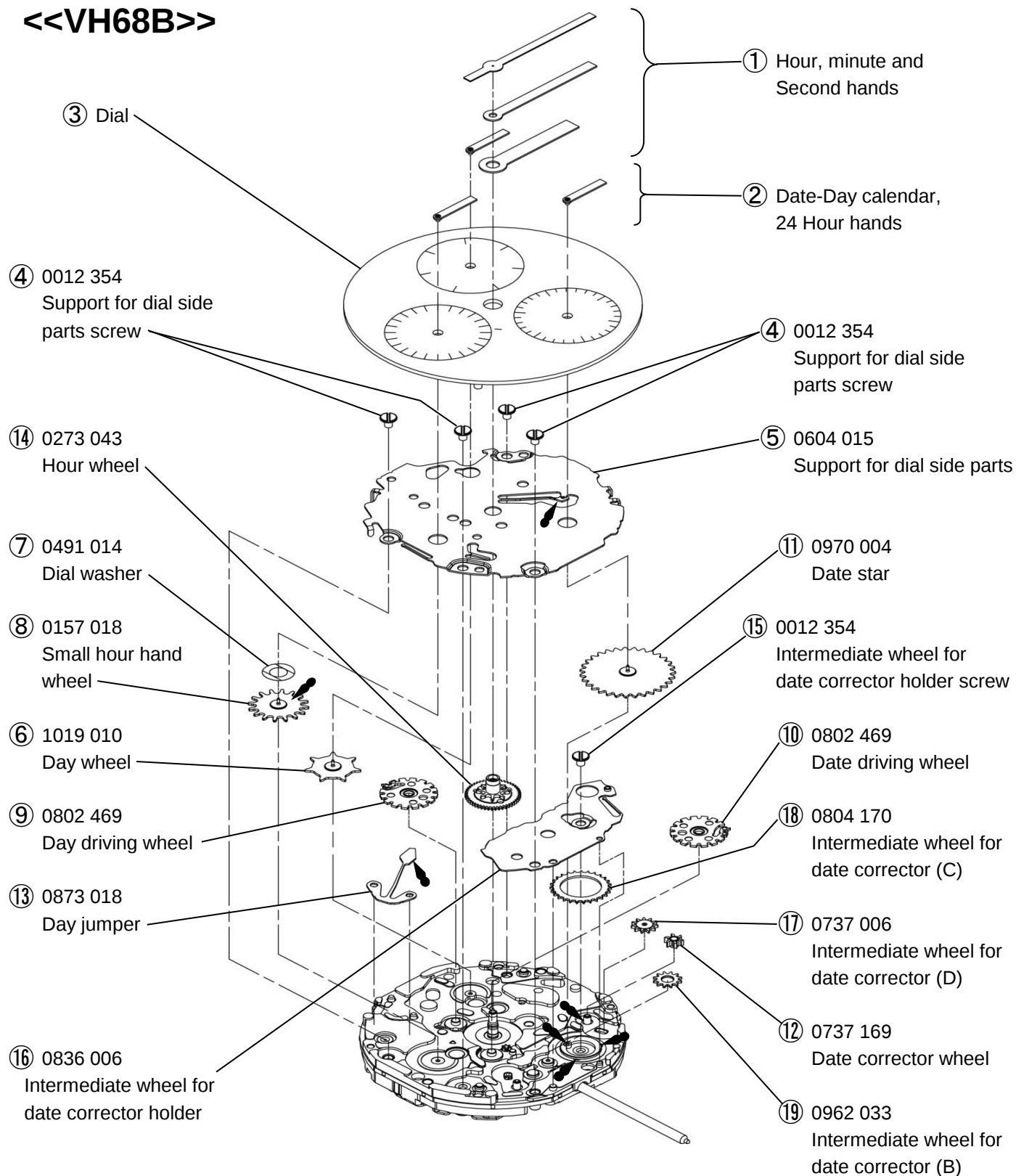
|                                       |                                                                                                                                                                                                                |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Disassembling procedures Figs. ① → ④⑥ | Lubricating : Types of oil                                                                                                                                                                                     |
| Reassembling procedures Figs. ④⑥ → ①  |  A3a / Moebius 9010<br> A2a / Moebius 9030 |
|                                       | Oil quantity                                                                                                                                                                                                   |
|                                       |  Normal quantity<br> Sufficient quantity   |

## <<VH67B>>

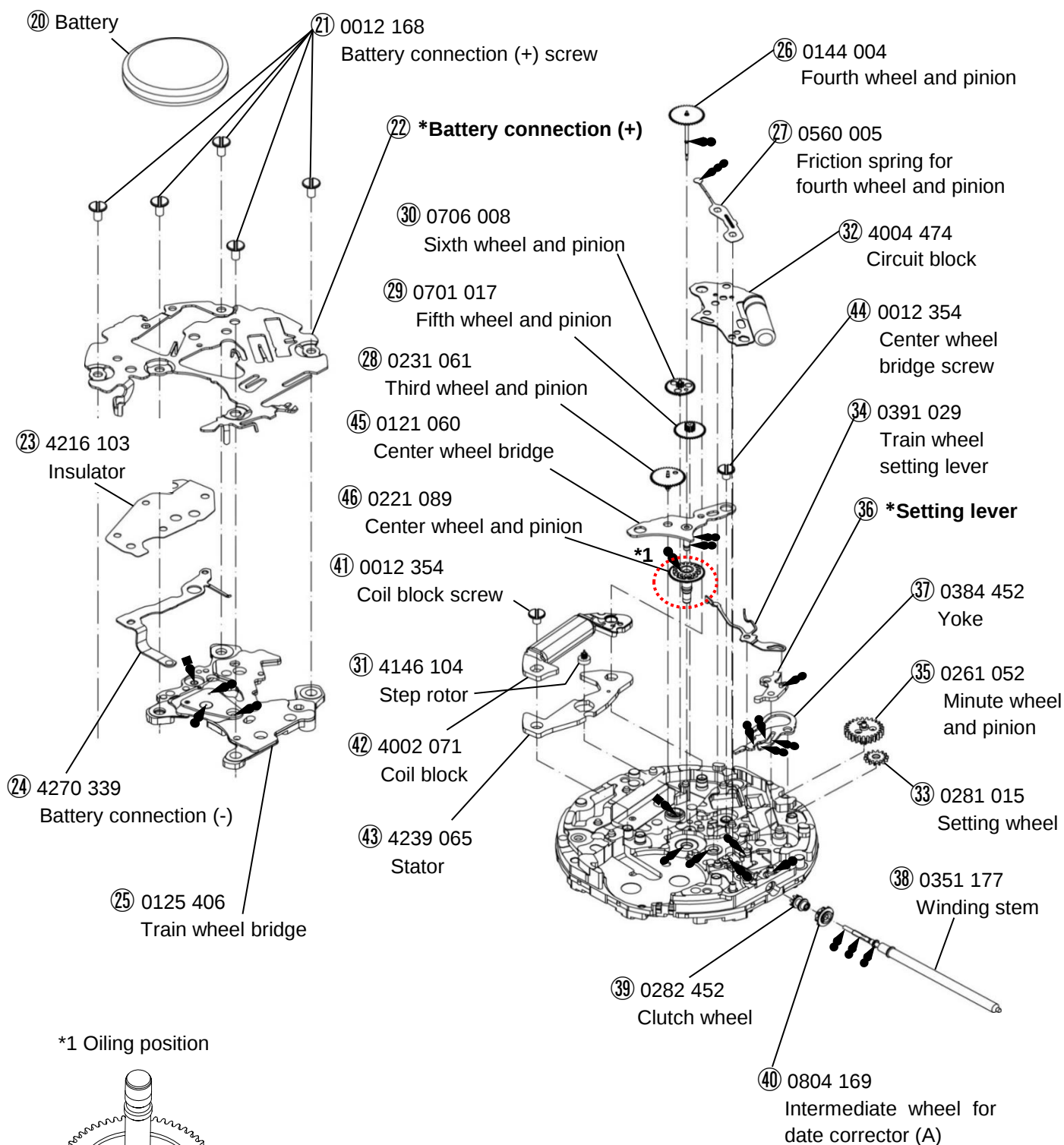


|                                       |                                                                                                                                                                                                                |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Disassembling procedures Figs. ① → ④⑥ | Lubricating : Types of oil                                                                                                                                                                                     |
| Reassembling procedures Figs. ④⑥ → ①  |  A3a / Moebius 9010<br> A2a / Moebius 9030 |
|                                       | Oil quantity                                                                                                                                                                                                   |
|                                       |  Normal quantity<br> Sufficient quantity   |

## <<VH68B>>



|                                       |                                                                                                                                                                                                                |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Disassembling procedures Figs. ① → ④⑥ | Lubricating : Types of oil                                                                                                                                                                                     |
| Reassembling procedures Figs. ④⑥ → ①  |  A3a / Moebius 9010<br> A2a / Moebius 9030 |
|                                       | Oil quantity                                                                                                                                                                                                   |
|                                       |  Normal quantity<br> Sufficient quantity   |



\*Refer to pages 11 for each parts code

Remarks:

O Different parts for each CAL.

| Parts name                | Parts code | VH60B | VH61B | VH63B | VH64B | VH65B | VH67B | VH68B |
|---------------------------|------------|-------|-------|-------|-------|-------|-------|-------|
| ②② Battery connection (+) | 4268 153   | —     | —     | O     | —     | —     | —     | —     |
|                           | 4268 167   | —     | —     | —     | —     | —     | —     | O     |
|                           | 4268 163   | —     | —     | —     | —     | —     | O     | —     |
|                           | 4268 149   | —     | O     | —     | —     | —     | —     | —     |
|                           | 4268 158   | —     | —     | —     | O     | —     | —     | —     |
|                           | 4268 161   | —     | —     | —     | —     | O     | —     | —     |
|                           | 4268 146   | O     | —     | —     | —     | —     | —     | —     |
| ③⑥ Setting lever          | 0383 891   | —     | O     | O     | O     | O     | O     | O     |
|                           | 0383 154   | O     | —     | —     | —     | —     | —     | —     |

**\* All parts code are subject to change without notice.**

- The explanation here is only for the particular point of Cal.VH60B/VH61B/VH63B/VH64B/VH65B/VH67B/VH68B

## REMARKS ON DISASSEMBLING AND REASSEMBLING

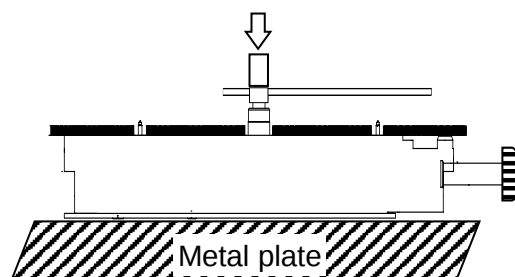
### (1) HAND

- How to install hands:

Place the movement directly on a flat metal plate or such a hard plate when you install the hands.

Necessary procedure to setting hands:

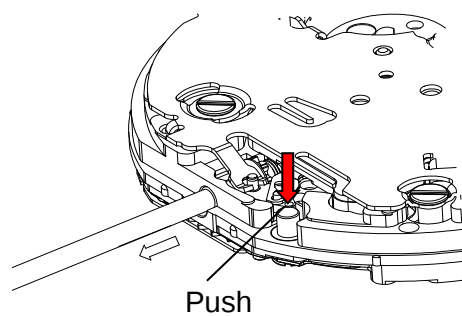
- ① Set the dial.
- ② Install the date calendar hand at the 12 o'clock position.
- ③ Pull out the crown to the second click position, and change the date by rotating the crown clockwise.
- ④ Install the day calendar and 24 hour and hour and minute and second hands at the 12 o'clock position.



### (2) Winding stem

- How to remove:

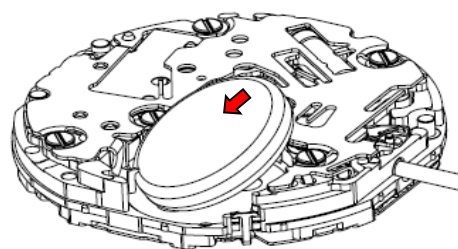
Pull out the winding stem while pushing the indented portion of the arrow.



### (3) Battery

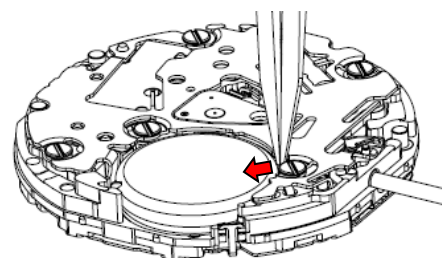
- How to install:

Insert the battery in the aslant direction as shown by the arrow. Check the battery connection (+) securely touches the side face of the battery.



- How to remove:

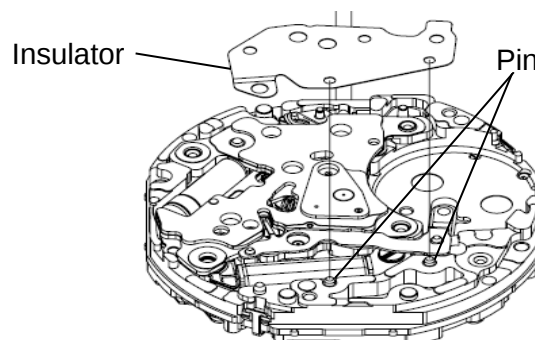
Firstly slide the battery in the direction of the arrow with tweezers, and then lift the battery.



### (4) Insulator

- How to set:

To insulate between the battery connection (+) and the battery connection (-), the insulator should be put at the two pins securely as bellow.



(5) Setting position adjustment (at the time of disassembling and reassembling)

• How to set the Date & Day driving wheels in the correct position:

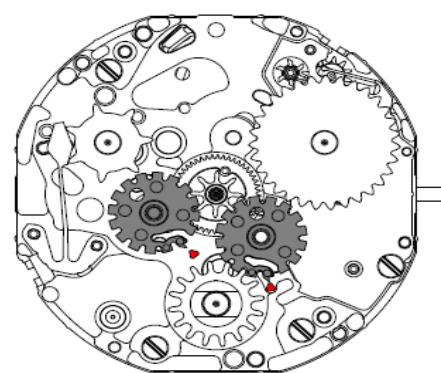
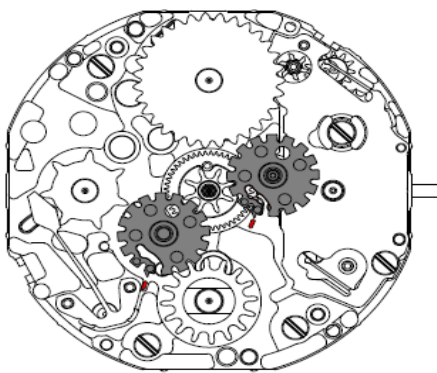
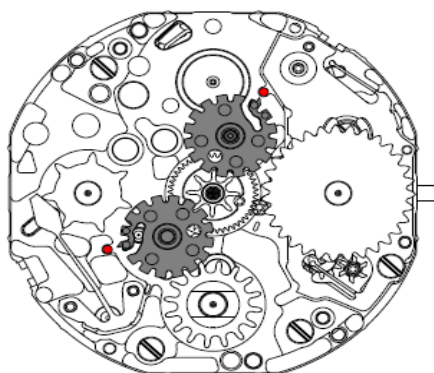
Note:

Set the indicator finger of a Date & Day driving wheels to the setting position mark on the Main plate.  
An adjustment is unnecessary for VH60B/VH61B/VH65B.

«Cal.VH63B/64B setting position»

«Cal.VH67B setting position»

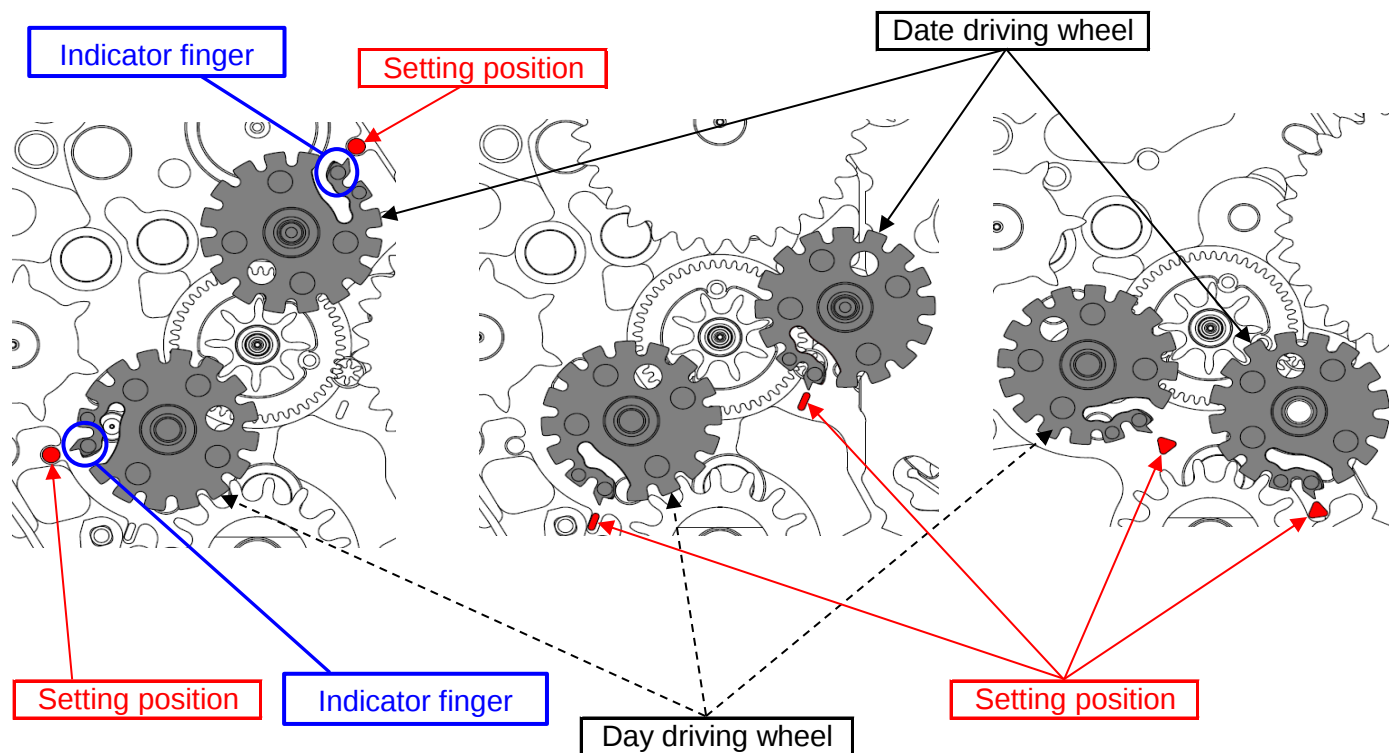
«Cal.VH68B setting position»



Enlargement

Enlargement

Enlargement



- How to assemble and set the Date & Day jumpers of the support of dial side parts:  
 There are two hooks on the support for dial side parts. (Fig.1)  
 Assemble the two hooks on the support for dial side parts  
 to the position of the built-in height A of the base plate. (Fig.2)  
 Set the Date & Day jumper to the teeth of the Date star & Day wheel.  
 Assemble the two hooks on the position of the built-in height B of the base plate. (Fig.3)

example VH63B

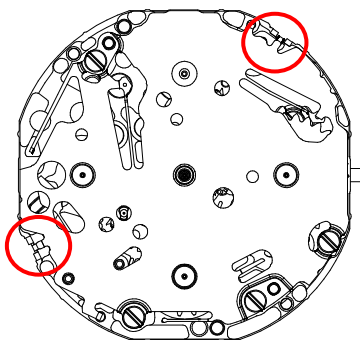


Fig.1 (example VH63B)

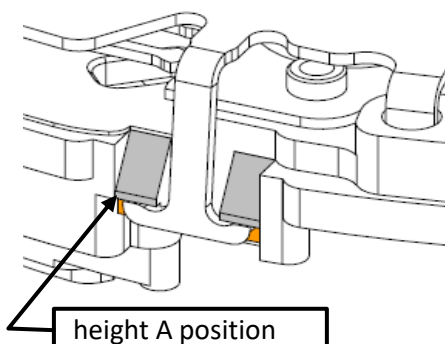


Fig.2 (built-in height A)

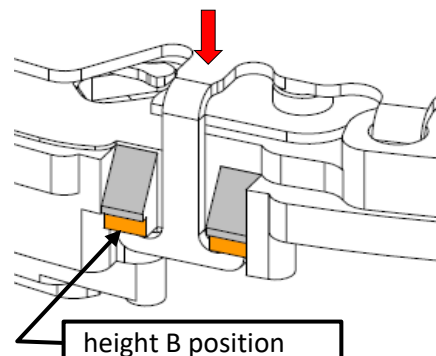
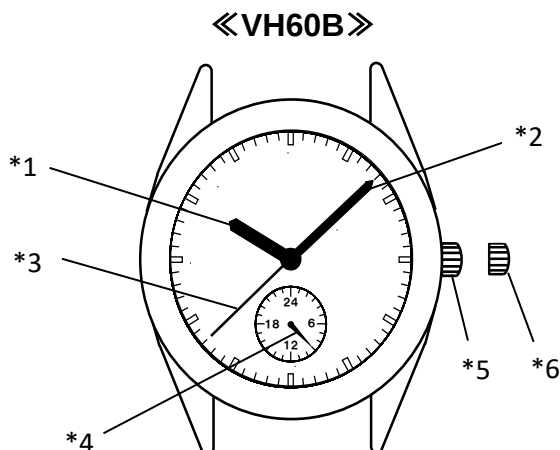


Fig.3 (built-in height B)

## DISPLAY AND CROWN OPERATION



Note:

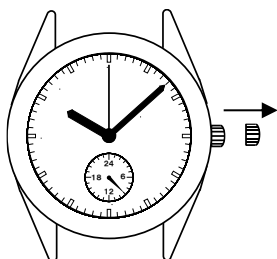
\*1: Hour hand  
\*2: Minute hand

\*3: Second hand  
\*4: 24Hour hand

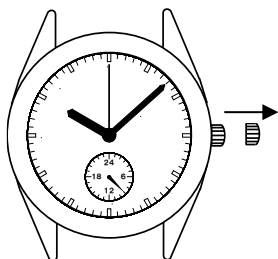
\*5: Crown at normal position  
\*6: First click  
• Time setting

## TIME SETTING

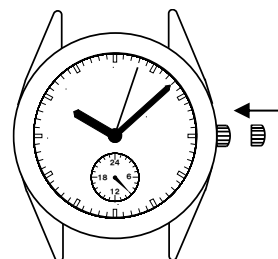
《VH60B》



1. pull out the crown to the first click when the second hand is at the 12 O'clock position.

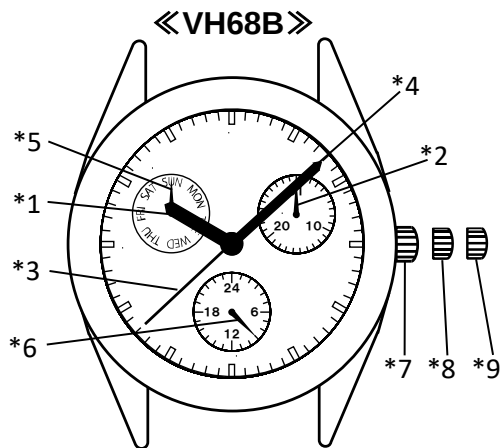
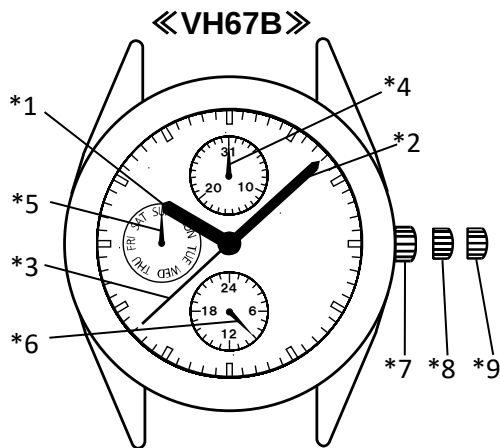
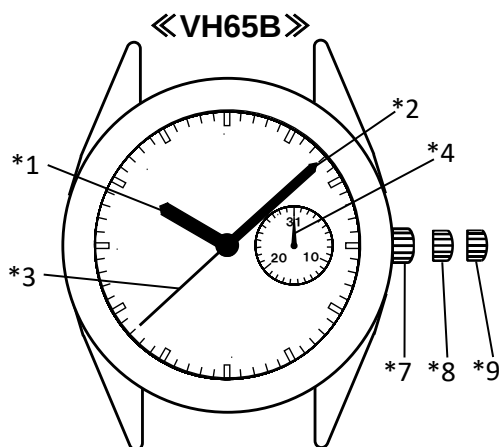
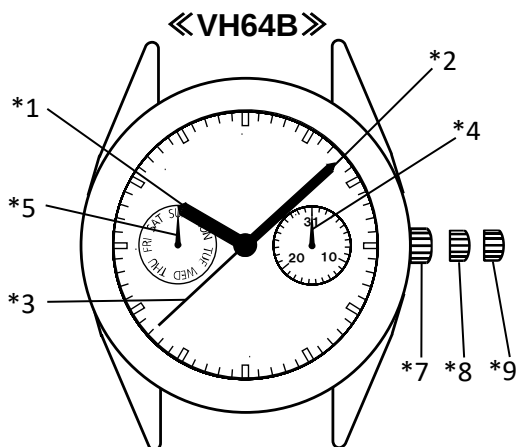
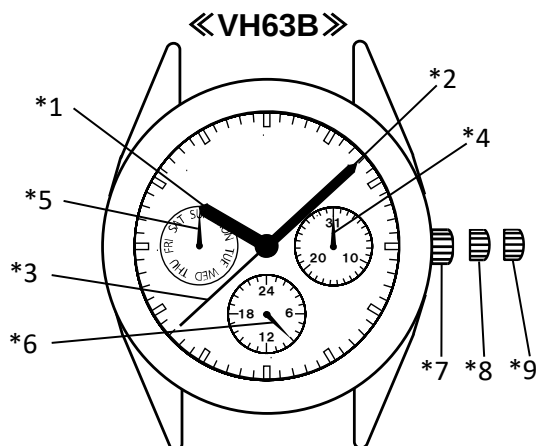
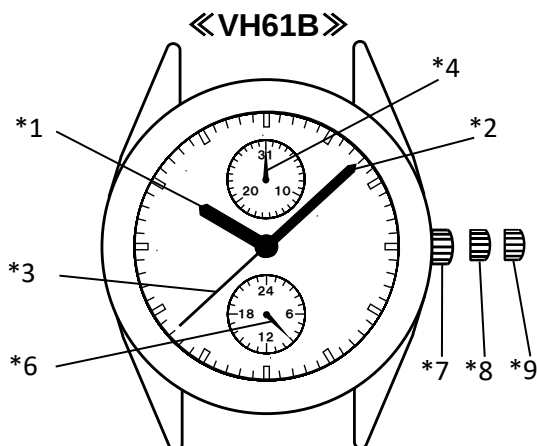


2. Turn the crown to set the hour and minute hands to the time.  
(Check that AM / PM is set correctly)



3. Push the crown back in to the normal position in accordance with a time signal.

## DISPLAY AND CROWN OPERATION

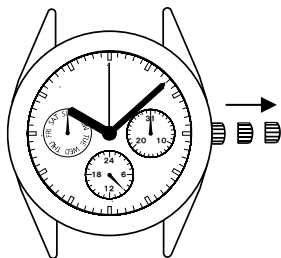


**Note:**

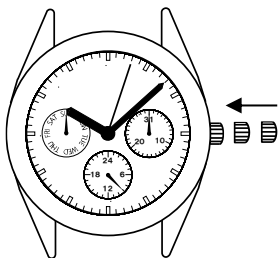
- |                 |                        |                                        |                  |
|-----------------|------------------------|----------------------------------------|------------------|
| *1: Hour hand   | *4: Date calendar hand | *7: Crown at normal position           | *9: Second click |
| *2: Minute hand | *5: Day calendar hand  | *8: First click                        | • Time setting   |
| *3: Second hand | *6: 24 Hour hand       | • Date setting (Quick change function) |                  |

## TIME SETTING

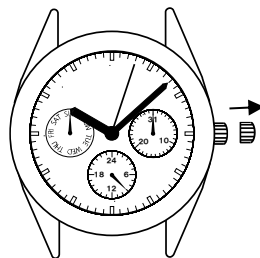
《VH61B/VH63B/VH64B/VH65B/VH67B/VH68B》



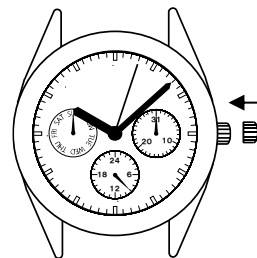
- 1.Pull out the crown to the second click when the second hand is at the 12 O'clock position.



- 2.Push the crown back into the normal position in signal.



- 3.Pull out the crown to the first click.  
Turn the crown counter-clockwise to set the date.



- 4.Push the crown back into the normal position.

Turn the crown rotation to set the day of the week.

Turn the crown to set the hour and minute hands to the time.

(Check that AM / PM is set correctly)

\*Do not set the date between 10:00 PM and 2:00 AM

Otherwise, the day may not change properly. If it is necessary to set the date during that time period, first change the time to any time outside it and set the date, and then reset the correct time.