

TECHNICAL GUIDE & PARTS CATALOGUE

Cal.VD8 Series (Cal.VD84A/85A/86A/87A)

ANALOGUE QUARTZ



SPECIFICATION

Version-01 Cal.VD8 Series (VD84A/85A/86A/87A)

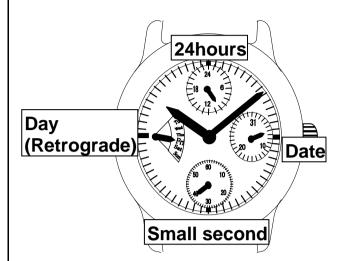
TIME MODULE (VD84A/85A/86A/87A) Cal. No.								
Item	Cai. NO.	VD84A						
Movement		*Refer to page 2 for other Cal. No. specifications.						
Movement size	Outside diameter	φ23.70 mm 22.60 mm: between 12 o'clock and 6 o'clock sides 22.60 mm: between 3 o'clock and 9 o'clock sides						
	Casing diameter	φ23.30 mm 22.10 mm: between 12 o'clock and 6 o'clock sides 21.40 mm: between 3 o'clock and 9 o'clock sides						
	Total height	3.45 mm						
	Cal. No.	VD84A	VD85A	VD86A	VD87A			
Time indication	Hands	6	5	5	5			
	2 Hands (hour, minute)	0	0	0	0			
	Small Second hand (6 H)	0	0	0	0			
	24 Hour hand (12 H)	0	×	×	×			
	Date Calendar hand (3 H)	0	0	×	×			
	Date Calendar hand (2 H)	×	×	0	0			
	Day Calendar hand (9 H) Retrograde	0	0	×	0			
	Day Calendar hand (10 H) Retrograde	×	×	0	×			
Driving system		Step motor						
Additional mechanism		Electronic circuit reset switch Second setting device Date setting						
Antimagnetic		≧ 1600 A/m						
Accuracy		Less than ± 20 seconds : Monthly rate at normal temperature range						
Battery		SR626SW (Silver oxide battery) Battery life is approximately 3 years						
Measuring gate by quartz tester		Use 10 second gate * Set the winding stem with crown at the normal position						
Jewels		0 Jewel						



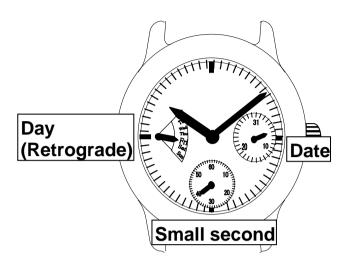
MOVEMENT VARIATION

Version-01 Cal.VD8 Series (VD84A/85A/86A/87A)

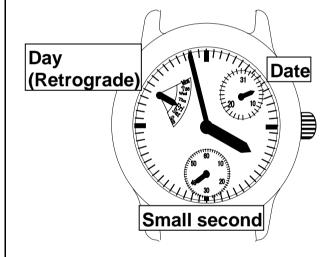
VD84A



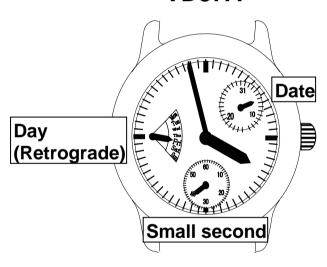
VD85A



VD86A



VD87A





Version-03 Cal.VD8 Series (VD84A/85A/86A/87A)

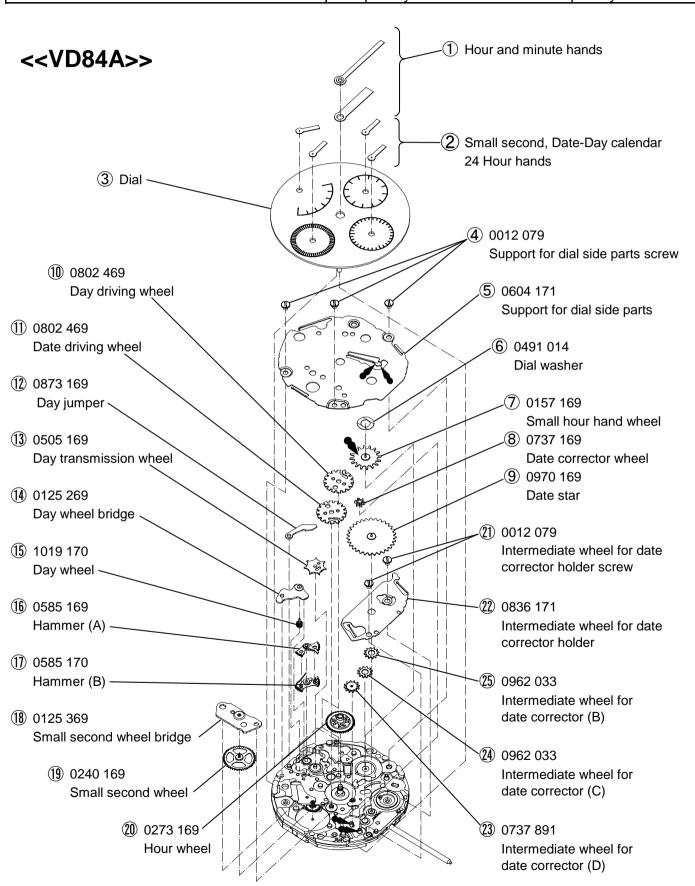
Disassembling procedures Figs. \bigcirc \rightarrow \bigcirc

Reassembling procedures Figs. $\textcircled{1} \rightarrow \textcircled{1}$

Lubricating : Types of oil

A3a / Moebius 9010 A2a / Moebius 9030

Oil quantity Normal quantity





Version-02 Cal.VD8 Series (VD84A/85A/86A/87A)

Disassembling procedures Figs. $\textcircled{1} \rightarrow \textcircled{1}$

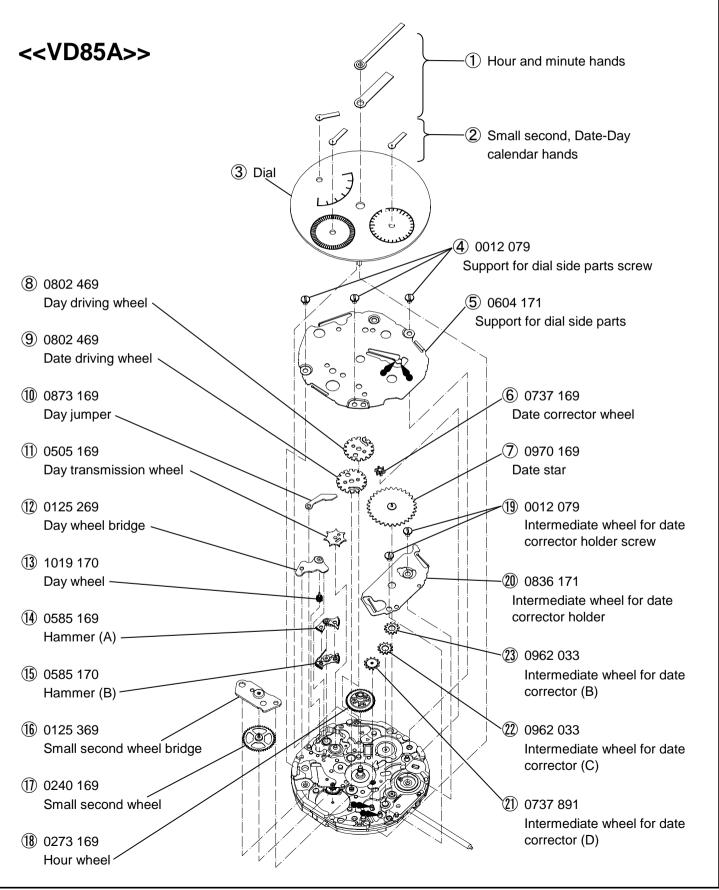
Reassembling procedures Figs. \P \rightarrow \P

Lubricating: Types of oil

A3a / Moebius 9010

A2a / Moebius 9030

Oil quantity Normal quantity





Version-02 Cal.VD8 Series (VD84A/85A/86A/87A)

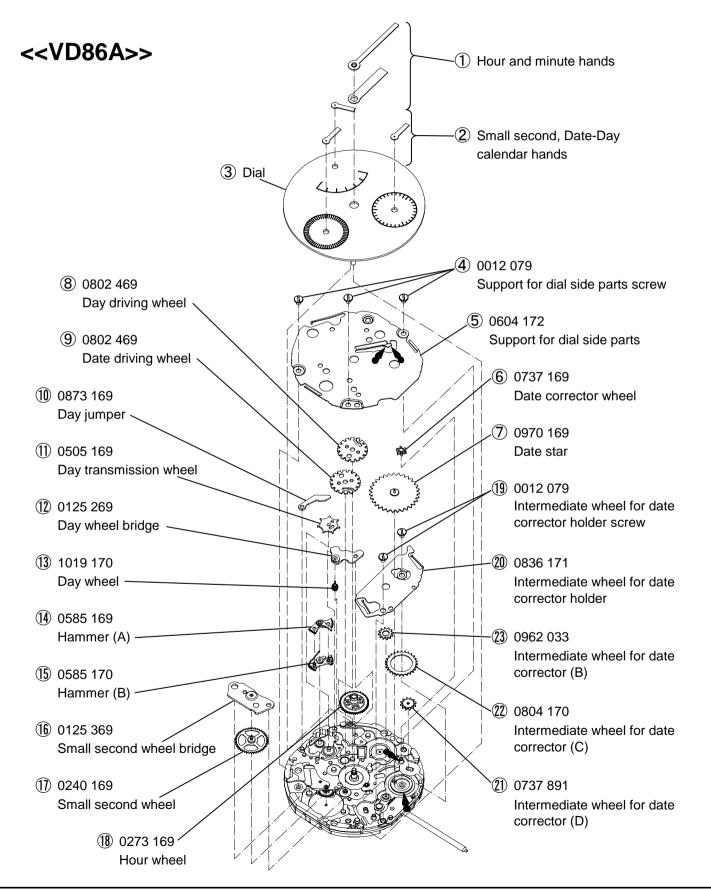
Disassembling procedures Figs. $\textcircled{1} \rightarrow \textcircled{1}$

Reassembling procedures Figs. ④ → ①

Lubricating : Types of oil

A3a / Moebius 9010 A2a / Moebius 9030

Oil quantity Normal quantity





Version-02 Cal.VD8 Series (VD84A/85A/86A/87A)

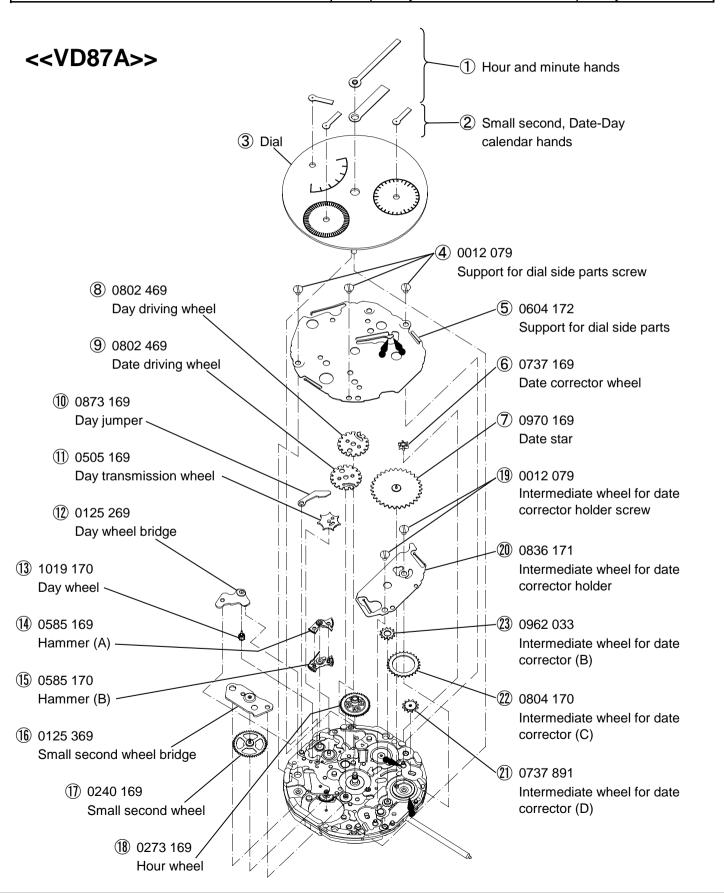
Disassembling procedures Figs. ① \rightarrow ④

Reassembling procedures Figs. \P \rightarrow 1

Lubricating: Types of oil

A3a / Moebius 9010

A2a / Moebius 9030



Version-03 Cal.VD8 Series (VD84A/85A/86A/87A)

Disassembling procedures Figs. ① → ④

Reassembling procedures Figs. ④ → ①

Oil quantity

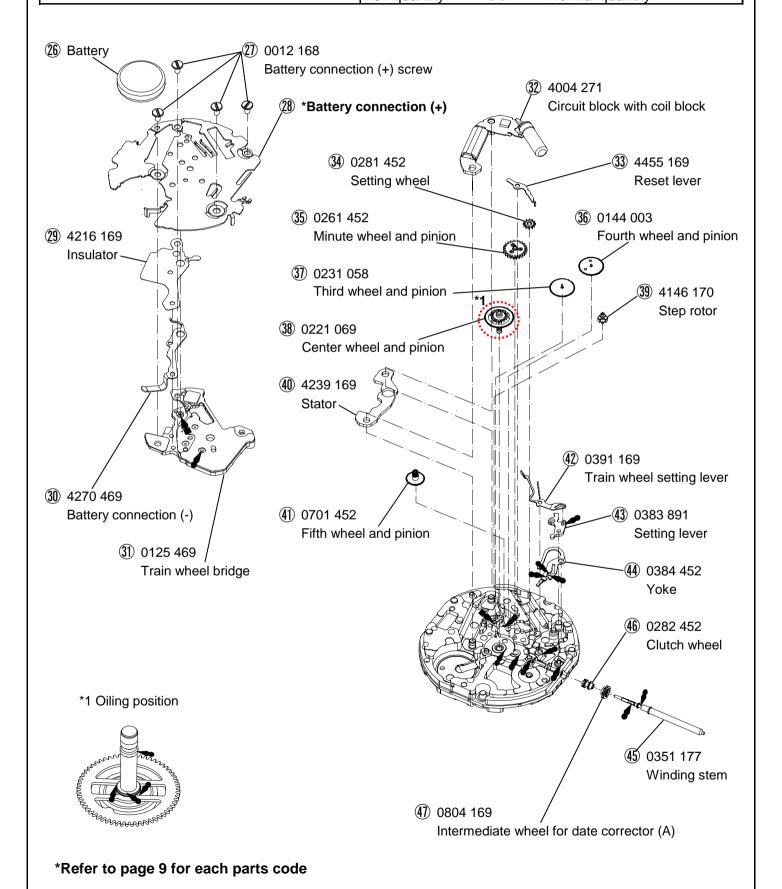
Lubricating : Types of oil

A3a / Moebius 9010

A2a / Moebius 9030

Oil quantity

Normal quantity





Version-01 Cal.VD8 Series (VD84A/85A/86A/87A)

Remarks:

O Different parts for each CAL.

Parts name	Parts code	VD84A	VD85A	VD86A	VD87A
	4271 476	0			_
Pattory connection (1)	4271 477		0		_
Battery connection (+)	4271 478	_		0	_
	4271 494	_	_	_	0

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

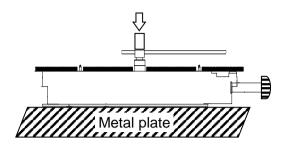
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•The explanation here is only for the particular point of Cal.VD84A/VD85A/VD86A/VD87A

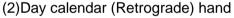
REMARKS ON DISASSEMBLING AND REASSEMBLING (1)HAND

 How to install hands
 Place the movement directly on a flat metal plate or the like to install the hands.

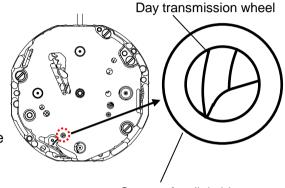


Note: How to procedure hands

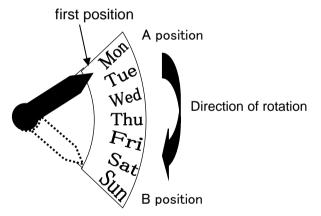
- ①The state of movement is confirmed by the position of a right picture.
 - Pull out the crown to the second click position and rotation. The position is setting.
- 2Dial setting.
- 3 Install the Day calendar hand at the first position.
- (4) Install the Date calendar and small second hands at the 12 o'clock position.
- ⑤Pull out the crown to the second click position and rotation it clockwise the change date.
- ©Install the 24 hour and hour and minute hands at the 12 o'clock position.



•Be quick in Day calendar hand The hand instantaneously returns from B position to A position when one week passes.

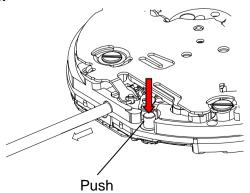


Support for dial side parts



(3)Winding stem

•How to remove While pushing the indented portion of the arrow pull out the winding stem.



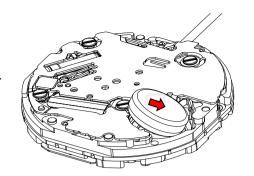


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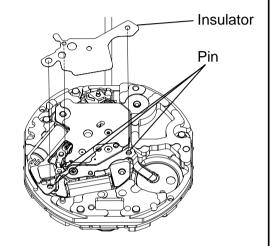
(4)Battery

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



(5)Insulator

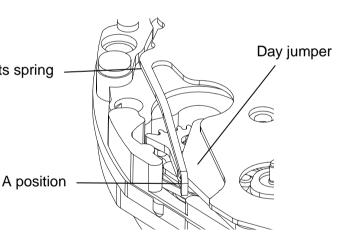
Notes: To insulate between the battery connection (+) and the battery connection (-), the insulator should put at the three pin securely as bellow.



(6) Day jumper and support for dial side parts

•Reassembling procedures
The support for dial side parts spring set to the day jumper. (A position)

support for dial side parts spring

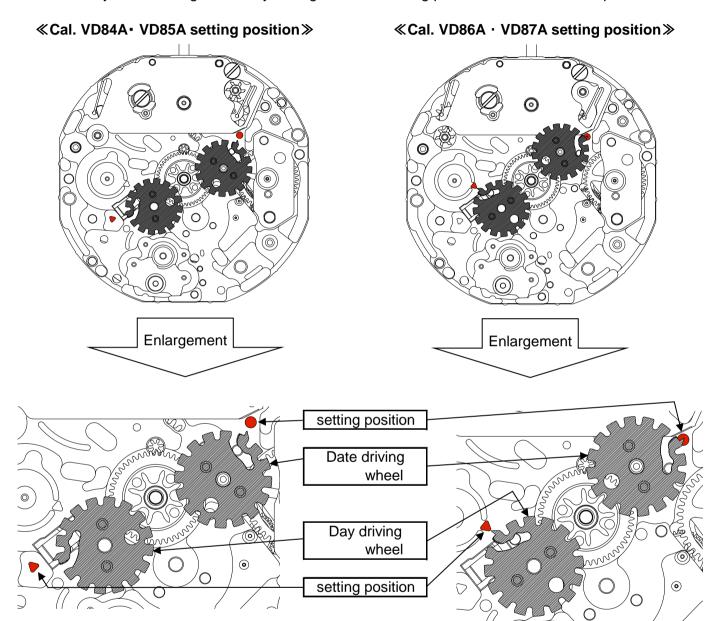


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(7) Setting position (Notes at the time of disassembling and a reassembling)

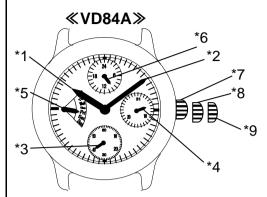
- •How to Date-Day driving wheels setting position
- Note:
 - •The Date indicator finger of a Date driving wheels is setting position "O"mark of Main plate.
 - •The Day indicator finger of a Day driving wheels is setting position "△"mark of Main plate.

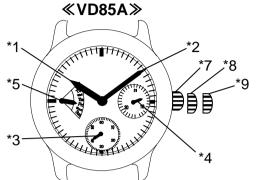






DISPLAY AND CROWN OPERATION

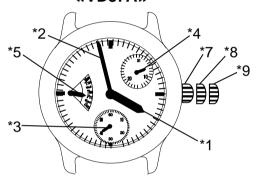




≪VD86A≫







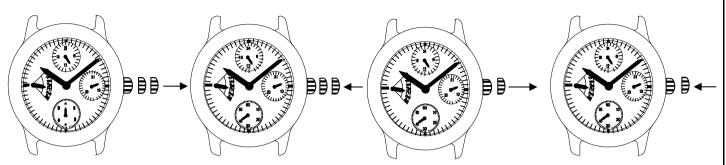
Note:

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



OPERATION

TIME SETTING



- 1.Pull out the crown to the second click when the small second hand is at the 12 O'clock position.
- 2.Push the crown back in to the normal position in signal.Pull out the crown to the first click.
- 3.Pull out the crown to the first click. turn the crown counterclockwise to set the date. (Quick change function)
- 4. Push the crown back in to 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, set the date and then reset the correct time.