# TECHNICAL GUIDE <br> \& <br> PARTS CATALOGUE <br> Cal.VD50C 

## ANALOGUE QUARTZ

| Item | Cal. No. |
| :--- | :--- | PARTS CATALOGUE


| Disassembling procedures Figs. (1) $\rightarrow$ (56) <br> Reassembling procedures Figs. (56) $\rightarrow$ (1) | Lubricating : Types of oil |  |  |
| :---: | :---: | :---: | :---: |
|  |  |  | A3a / Moebius 9010 |
|  |  |  | A2a / Moebius 9030 A3a (S-6) |
|  | Oil quantity | 0 | Normal quantity |



| Disassembling procedures Figs. (1) $\rightarrow$ (56) <br> Reassembling procedures Figs. (56) $\rightarrow$ (1) | Lubricating : Types of oil |  |  |
| :---: | :---: | :---: | :---: |
|  |  |  | A3a / Moebius 9010 |
|  |  |  | A2a / Moebius 9030 АЗа (S-6) |
|  | Oil quantity | O | Normal quantity |

(30) 0012079

Train wheel bridge (B) screw
(31) 0125331

Train wheel bridge (B)
(32) 4146177

Step rotor (B)

(3) 4002021 Coil block (B)

(34) 4239357

Rotor stator (B)
(35) 0701014

Fifth wheel and pinion (B)


0351177
Winding stem
6) 0012079

Switch spring screw

4250104
Switch spring
(28) 4004339

Circuit block
9) 4270358

Battery connection (-)
(36) 0012079

Train wheel bridge (B) screw
(37) 0125331

Train wheel bridge (B)
(38) 4146177

Step rotor (B)
(39) 4002021

Coil block (C)

4239357
Rotor stator (B)
(41) 0701014

Fifth wheel and pinion (B)

| Disassembling procedures Figs. (1) $\rightarrow$ (56) <br> Reassembling procedures Figs. (56) $\rightarrow$ (1) | Lubricating: Types of oil |  |  |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
|  |  |  | A2a / Moebius 9030 A3a (S-6) |
|  | Oil quantity | $0 \times$ | Normal quantity |



PARTS CATALOGUE

Remark:
(6) Date dial

| Part code | Position of <br> crown | Position of <br> date frame | Color of <br> figure | Color of <br> background |
| :---: | :---: | :---: | :---: | :---: |
| 0878220 | 3 H | 3 H | Black | White |

*All parts code are subject to change without notice.
-The explanation here is only for the particular point of Cal.VD50C

## 1.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 short-circuit the AC terminal of circuit block and the switch spring with conductive tweezers to reset the circuit as illustrated at right.

2) When the battery replaced with a new one, the time information stored in the built-in IC and the time indicated by the stopwatch hands do not correspond with each other.
Reset the stopwatch hands to "0" position following the procedure below.
If the stopwatch hands should move improperly, also follow the same procedure.

## ORDER

(1) Pull the crown out to the second click position.
(2) Keep the buttons "A" and "B" pressed at the same time for 2 seconds, and then, release the buttons.
The stopwatch second hand move back and returned to where it was.
(3) Press button "A" or "B" to reset the stopwatch second and minute hands to " 0 " position.

* By pressing button "A", set the stopwatch $1 / 10$ second hand.
* By pressing button "B", set the stopwatch second and minute hands.
(4) Turn the crown to set the hour, and minute hands to the desired time, and push the crown back to the normal position.



## 2.REMARKS ON DISASSEMBLING AND REASSEMBLING

(1) Hand

- How to install the hands

Please put on the metal plate so as to avoid 6 protrusions.(Right figure: place of red circle)
*Install the hour, minute and second hands at the "12" o'clock position.
*Install the chrono minute, second and $1 / 10$ second hands
 " 0 " o'clock position.
[ Reference ] The power of press hands
Minute \& Hour Hands
$<5 \mathrm{~kg}$
Second Hand $<5 \mathrm{~kg}$
Chrono Minute \& Second \& 1/10 second hands < 3kg

(2) Battery
-How to install the battery
(1) Remove the hook of the switch springs battery clamp portion.
(2) Insert the battery sideways, and have the hook of the switch springs battery clamp portion catch the main plate.

(3) Winding stem
-How to remove
While pushing the indented portion of the arrow, pull out the winding stem.


## DISPLAY AND CROWN / BUTTON OPERATION


*The measurement time indicated by the stopwatch hands that move independently of center hands. *Stopwatch $1 / 10$ second hand moves for a first minute.
After one minute, it indicates the measurement time when it is stopped.

## ADJUSTING THE STOPWATCH HAND POSITION

Before setting the time, check if the stopwatch $1 / 10$ second, second and minute hands are in the " 0 " position. *If the stopwatch is in use, press the button in the following order to reset it, and then, check if the hands return to "0" position. (For details, see "HOW TO USE THE STOPWATCH")

* If the stopwatch is counting: $A \rightarrow B$
* If the stopwatch is stopped : B

If either of the stopwatch hands are not in the "0" position, reset them following the procedure below.


## TIME SETTING


1.Pull out the crown to the first click.

2. Turn the crown clockwise until the previous day's date appears.

3.Pull out the crown to the second click when the second hand is at the 12 o'clock position. It will stop on the spot and advance the hour and minute hands by turning the crown.
(Check that AM/PM is set correctly.)
*When the crown is at the second click position. Do not press any button. Otherwise, the chronograph hands will move.
*Do not set the date between 9:00 P.M. and 1:00 A.M.
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.

OPERATION

## HOW TO USE THE STOPWATCH

-The measurement time is indicated by the stopwatch hands that move independently of the center hands.

- The stopwatch can measure up to 60 minutes in second.
(The watch indicates the measurement time in second increments by ignoring off the $1 / 10$ seconds obtained.)
(Standard measurement)
Ex) 100 m race (Press the buttons in the following order START
$\longrightarrow \quad$ STOP (Finish)
$A \rightarrow A \rightarrow B$ )
$\xrightarrow{ } \rightarrow$ RESET (Reset to "0'00")

Stopwatch minute hand


9.8/10 second

(Accumulated elapsed time measurement)
Ex) Basketball game (Press the buttons in the following order $\mathrm{A} \rightarrow \mathrm{A} / \mathrm{A} \rightarrow \mathrm{A} \rightarrow \mathrm{B}$ ) START $\rightarrow$ STOP RESTART $\rightarrow$ STOP
(Start of game) $\rightarrow \underset{\text { (Time out) }}{ }{ }^{\prime} \underset{\text { (Restart of game) }}{\text { Res }} \rightarrow \underset{\text { (Game over) }}{\text { STOP }} \rightarrow$ RESET



5 minutes 10,8/10 seconds


20 minutes 00 seconds
*Restart and stop of the stopwatch can be repeated as many times as necessary by pressing button A.

