TIME MODULE

Revised on : 24. August. 2010

TECHNICAL GUIDE

&

PARTS CATALOGUE

Cal.VC10/11E

ANALOGUE QUARTZ

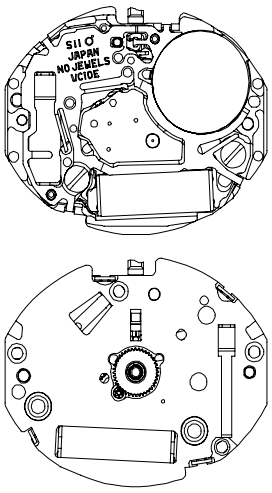
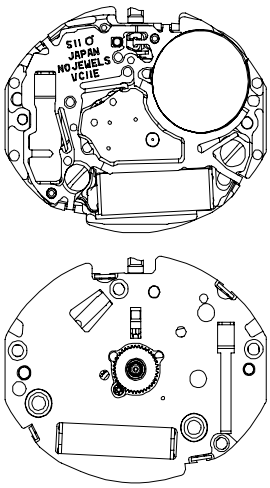
SII Products

PARTS CATALOGUE / TECHNICAL GUIDE

Cal.VC10 / 11E

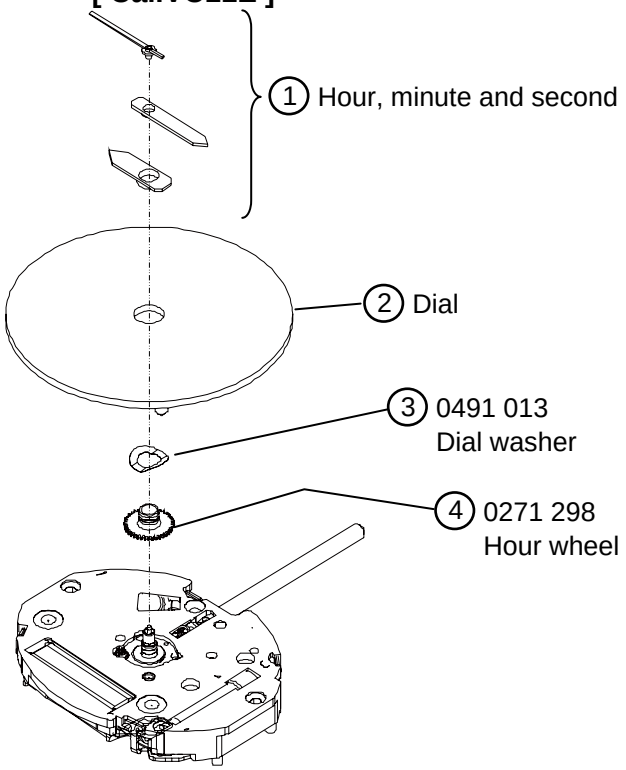
[SPECIFICATION]

Version-01

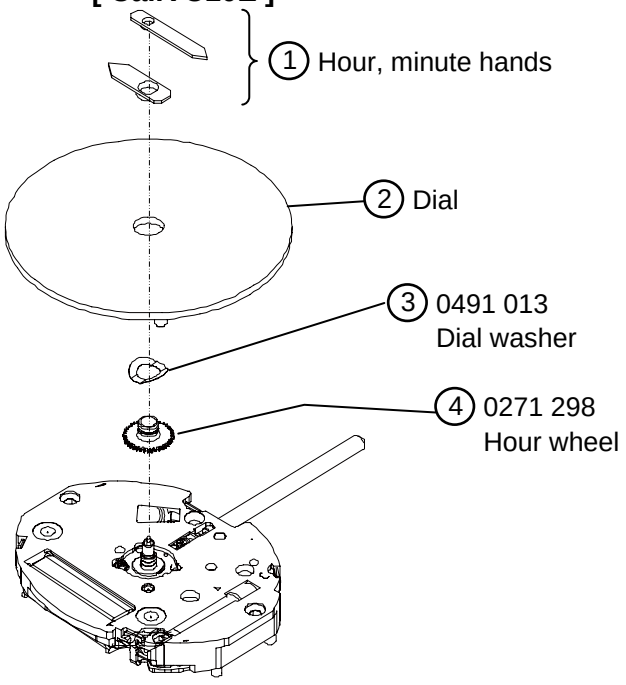
Item \ Cal. No.		VC10E	VC11E
Movement			
Movement size	Outside diameter	13.00 mm : between 3 o'clock and 9 o'clock sides 15.55 mm : between 6 o'clock and 12 o'clock sides	
	Casing diameter	15.15 mm : between 6 o'clock and 12 o'clock sides	
	Total height	2.38 mm (including the battery)	
Time indication		2 Hands	3 Hands
Driving system		Step motor (Load compensated driving pulse system type)	
Additional function		Electronic circuit reset switch	Electronic circuit reset switch Second setting device
Loss/Gain (Monthly rate) Frequency of crystal oscillator		Less than 20 seconds at normal temperature range 32,768 Hz	
Operational temperature range		-5℃ ~ +50℃	
Regulation system		Nil	
Measuring gate by QUARTZ TESTER		Use 10-second gate	
Battery		SR521SW (Silver oxide battery) Battery life is approximately 2 years Voltage : 1.55 V	
Jewels		0 jewel	

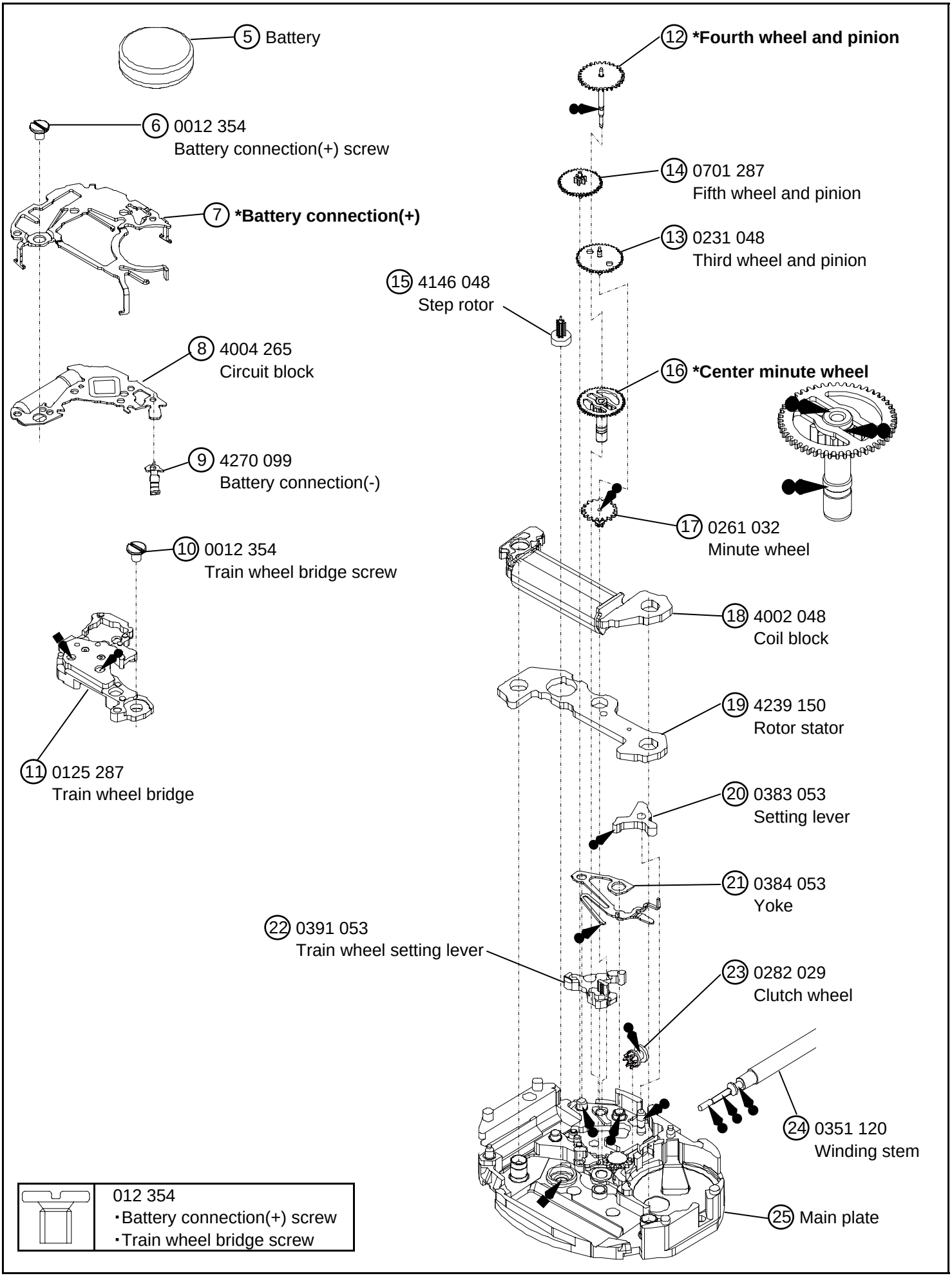
Disassembling procedures Figs.	①	⇒	㉕	Lubricating : Types of oil	Oil quantity
Reassembling procedures Figs.	㉕	⇒	①	Moebius A Moebius F	Normal quantity

[Cal.VC11E]



[Cal.VC10E]




5 Battery
6 0012 354
Battery connection(+) screw
7 *Battery connection(+)
8 4004 265
Circuit block
9 4270 099
Battery connection(-)
10 0012 354
Train wheel bridge screw
11 0125 287
Train wheel bridge
12 *Fourth wheel and pinion
14 0701 287
Fifth wheel and pinion
13 0231 048
Third wheel and pinion
15 4146 048
Step rotor
16 *Center minute wheel
17 0261 032
Minute wheel
18 4002 048
Coil block
19 4239 150
Rotor stator
20 0383 053
Setting lever
21 0384 053
Yoke
22 0391 053
Train wheel setting lever
23 0282 029
Clutch wheel
24 0351 120
Winding stem
25 Main plate
012 354
・Battery connection(+) screw
・Train wheel bridge screw

Remarks :

Fourth wheel and pinion
Center minute wheel
Battery connection(+)

[Cal.VC10E]

Center minute wheel	: 0270 082
Fourth wheel and pinion	: 0241 329
Battery connection(+)	: 4271 216

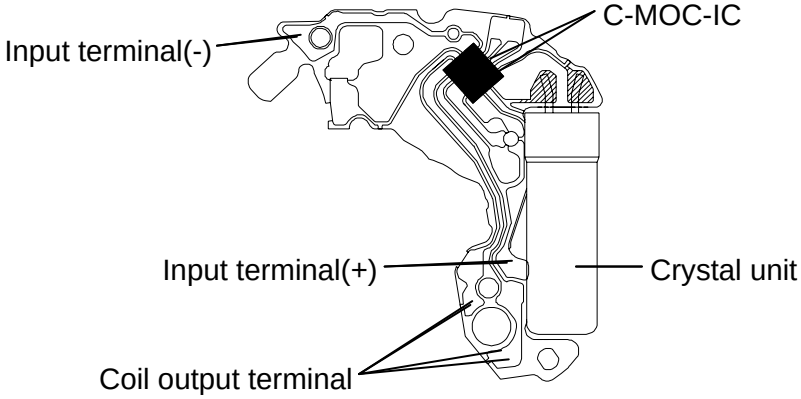
[Cal.VC11E]

Center minute wheel	: 0270 298
Fourth wheel and pinion	: 0241 133
Battery connection(+)	: 4271 217

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

・The explanation here is only for the particular points of Cal.VC10/11E

1. STRUCTURE OF THE CIRCUIT BLOCK



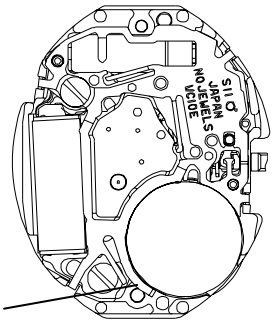
2. REMARKS ON DISASSEMBLING ANA REASSEMBLING

(1) Hands

・How to install

Notes:

・When installing the hands, place the movement directly on a flat metal plate or the like, escaping the spring portion of the battery connection(+).

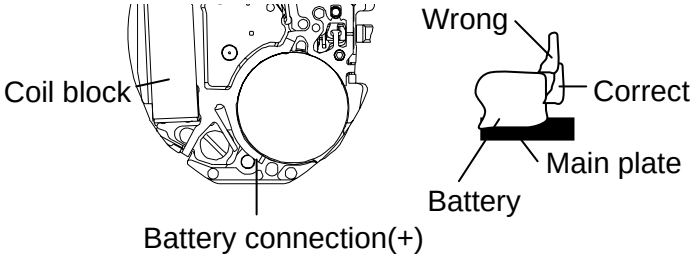


(2) Battery

・How to install

Notes:

・When installing the battery, check that the battery connection(+) securely touches the side face of the battery.



(3) Battery connection(+)

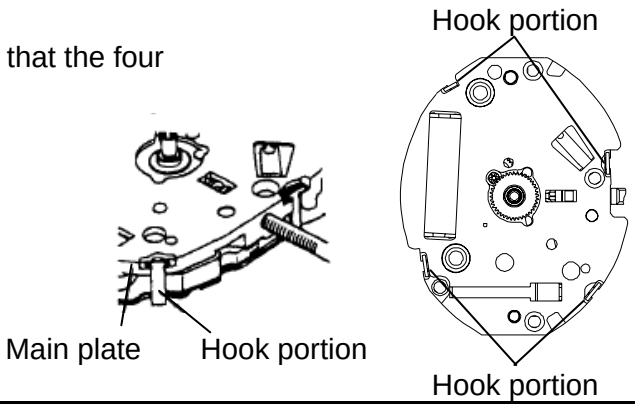
・How to install

Notes:

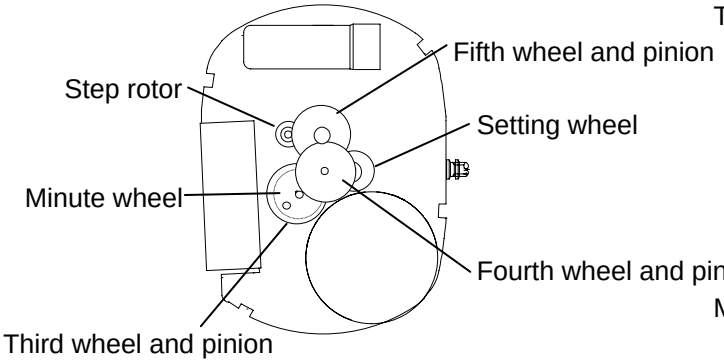
・Have the hook portions (4places) catch the main plate

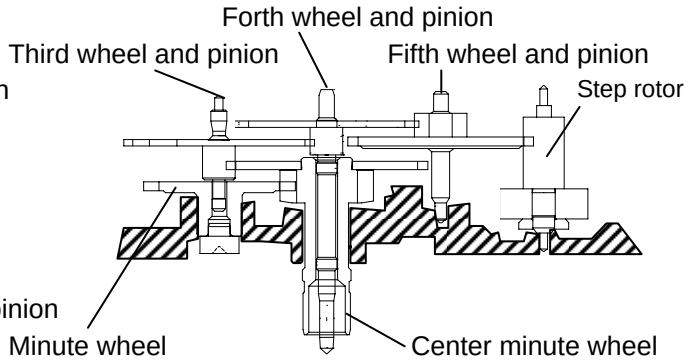
・In disassembling and reassembling, take care not to deform the hook portions.

・After installing the battery connection(+), check that the four hook portions securely catch the main plate.

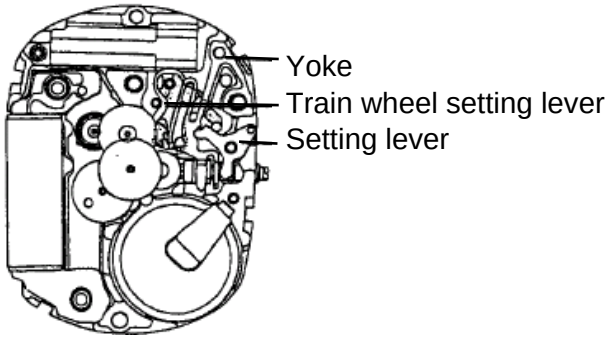


(4) Train wheel bridge
・Setting position
Notes:
・Since the fifth wheel and pinion and step rotor are made of plastics, take care not to damage them in disassembling and reassembling.

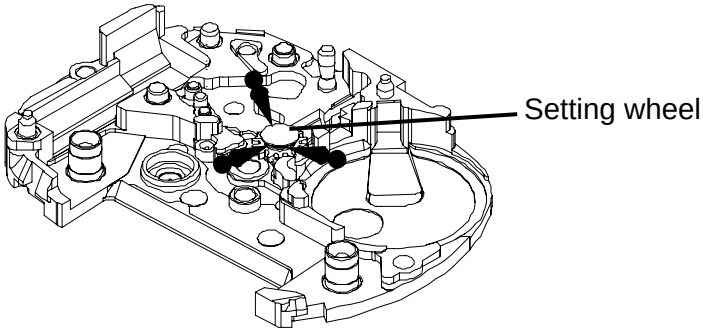




(5) Setting lever
(6) Yoke
(7) Train wheel setting lever
・Setting position
Notes:
・Take care not to deform the spring portion of the Yoke.
・Since the train wheel setting lever is made of plastics and easily damaged, Lightly catch it with tweezers taking care not to touch the portion engaging with the fifth wheel and pinion.



(8) Main plate
・Lubricating
Notes:
・Since the setting wheel is fixed securely to the main plate with a pin, never disassemble them apart.
・Apply a liberal quantity of Moebius A to the setting wheel.



3. VALUE CHECKING

Coil block resistance : 2.70 KΩ ~ 2.90 KΩ

Current consumption

For the wheel of the movement : less than 1.1μA
For the circuit block alone : less than 0.3μA