

# TECHNICAL GUIDE & PARTS CATALOGUE Cal.NE20C

## AUTOMATIC MECHANICAL

### **SPECIFICATION**

NE20C

Version-01 Cal.NE20C

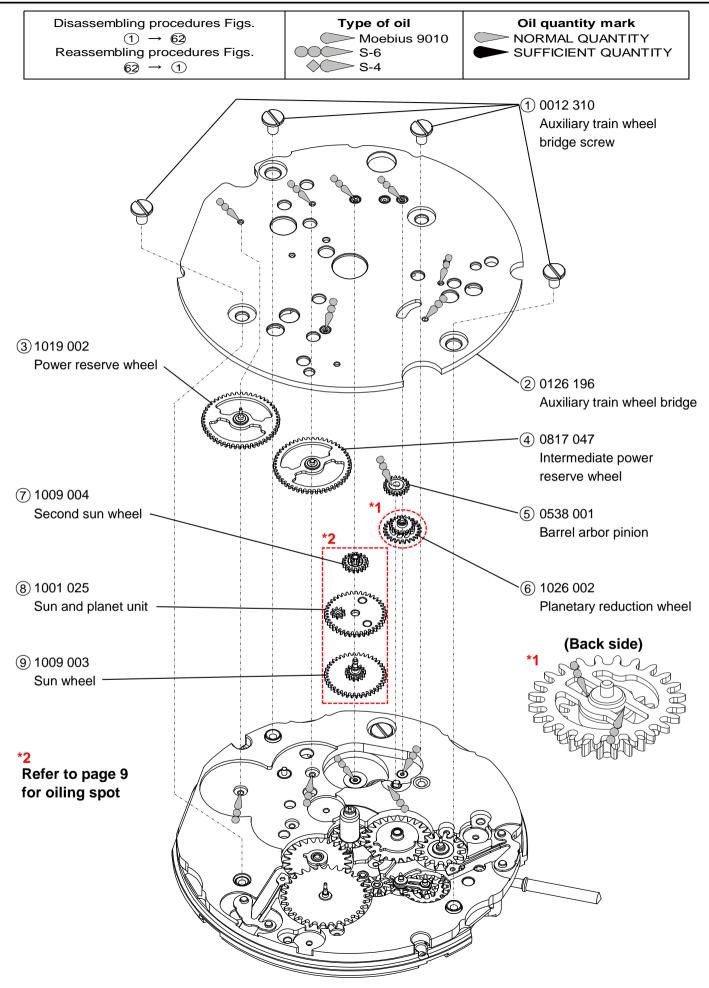
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Movement				
Movement size	Outside diameter	Φ27.4 mm		
	Casing diameter	Φ27.0 mm		
	Total height	6.15 mm		
	Ŭ	3 Hands ( Hour, Minute, Second )		
Time indication		Day-date calendar hands		
		Power reserve hand		
		Manual winding		
Basic function		Automatic winding with ball bearing		
		Stop-second device		
		Quick date correction		
Frequency		28,800 vibrations per hour		
rioquonoy		$-15 \sim +25$ seconds per day		
	Static accuracy	* Measurement should be done within 10 ~ 60 minutes after fully wound up.		
		* All measurements are made without the calendar in function.		
	Measurement			
	position	Direction of 3 positions (1) Dial up (2) 9 o'clock up (3) 6 o'clock up		
	Lift angle	52 deg		
	Measurement	20 seconds		
Accuracy	time	* Equipment to be used : Witschi WATCH EXPERT		
Recuracy	Posture difference	Difference is under 45 seconds within maximum value and minimum value.		
		* Measurement should be done within 10 ~ 60 minutes after fully wound up.		
		* Direction of 4 positions.		
		(1) 12 o'clock up (2) 9 o'clock up (3) 6 o'clock up (4) 3 o'clock up		
	Isochronisms (24h-0h)	- 10 ~ + 20 seconds per day		
		* Direction position : Dial up		
		* Difference of static accuracy of 24 h and 0 h		
		More than 45 hours (Mainspring after fully wound up)		
Duration time		* Posture to confirmation : Dial up		
Winding the mainspring		<< Movement >>		
		•Fully wound up by turning the crown minimum 55 times.		
		•Fully wound up by turning the ratchet wheel screw 8 times.		
		< Complete Watch >>		
		A winding machine is needed to wind up the mainspring.		
		*Full wind up conditions (Reference information)		
		(1) Rotary speed : 30 rpm (2) Operating time : 60 minutes		
Jewels		29 jewels		
Crown position		Counterclockwise	Clockwise	
	Normal position	Free	Manual winding	
	First click	Date setting	Day setting	
	Second click	Time setting	Time setting	
		rine setting	Time Setting	
			1	

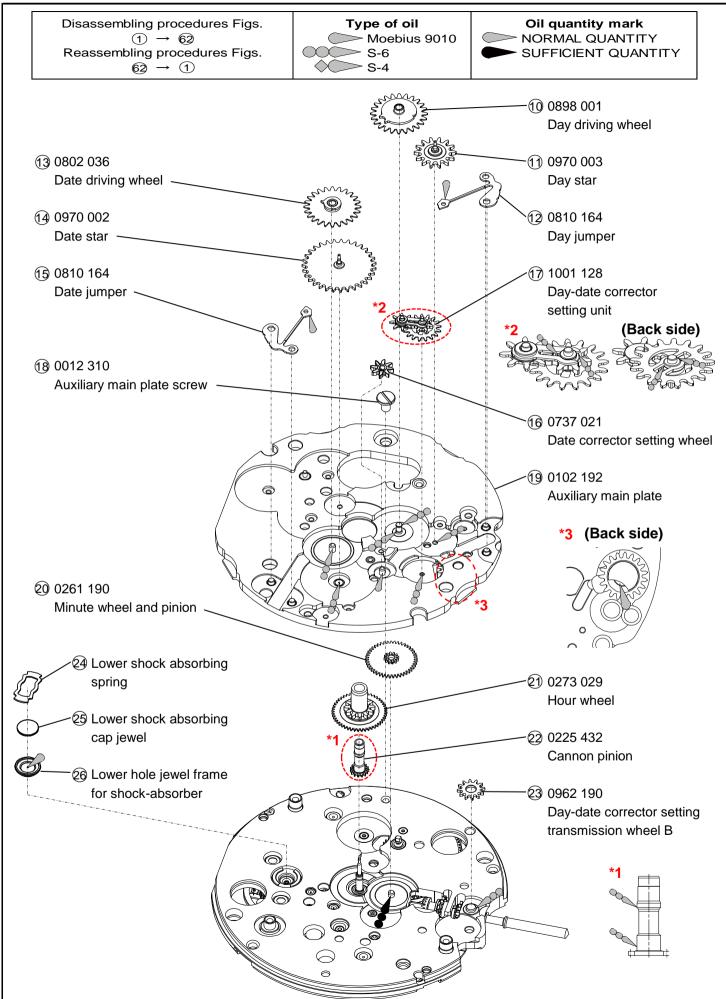
Item

Cal. No.

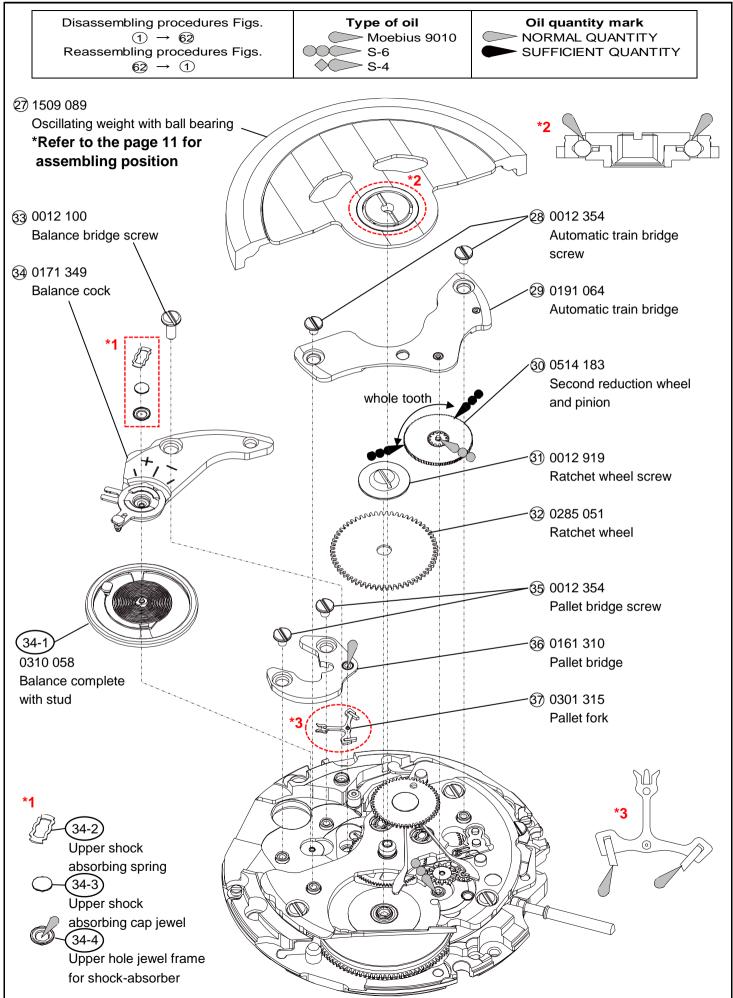




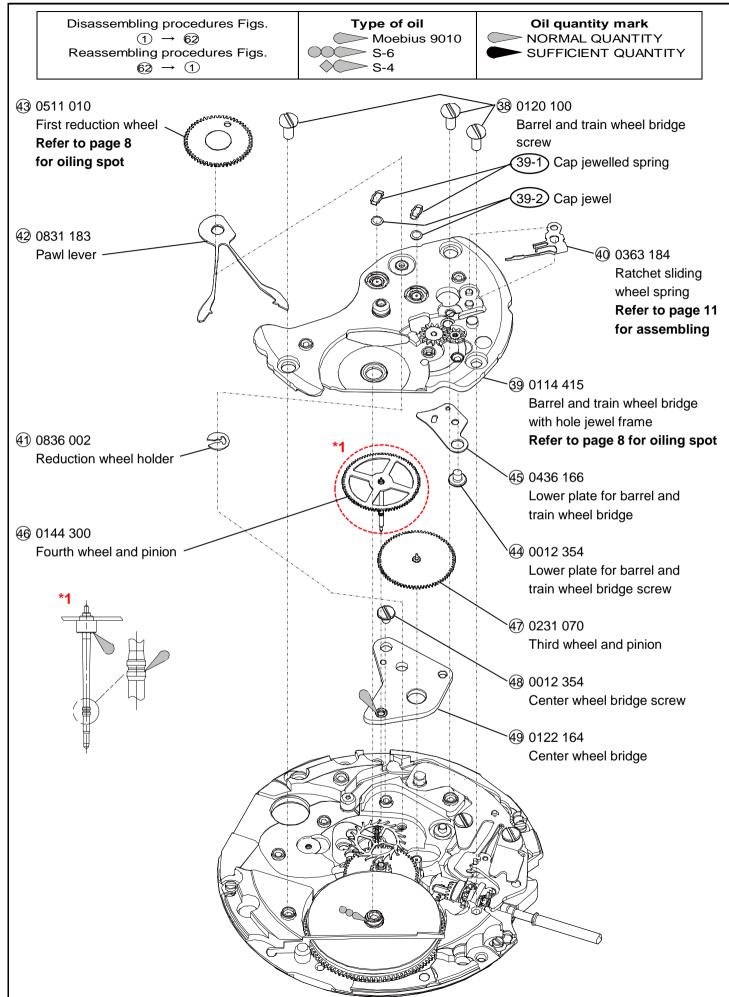




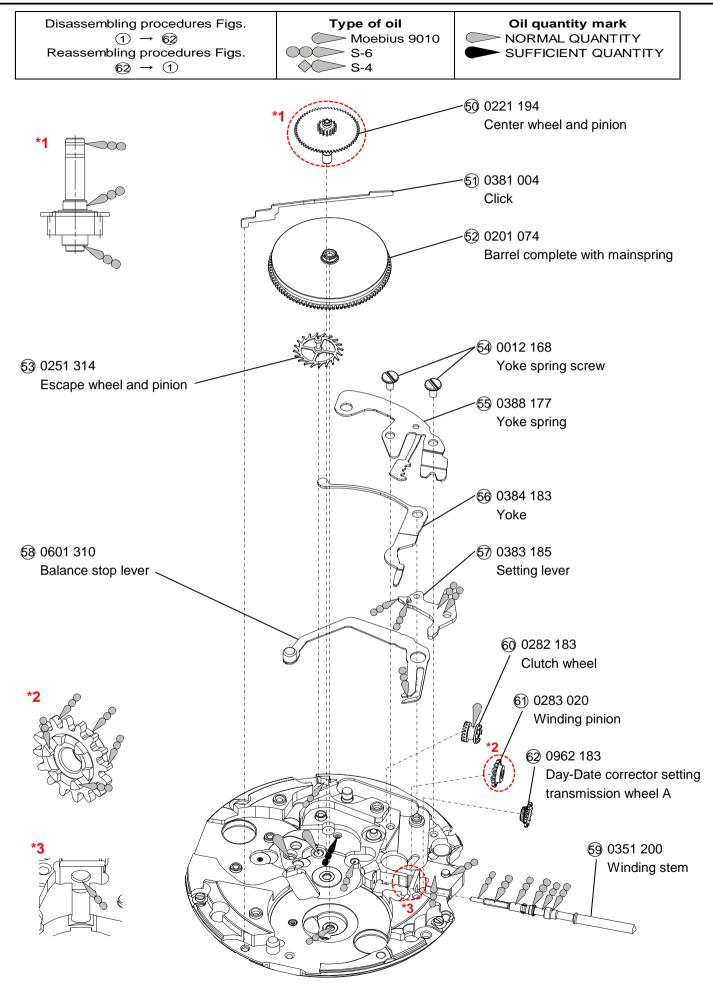














#### Remarks

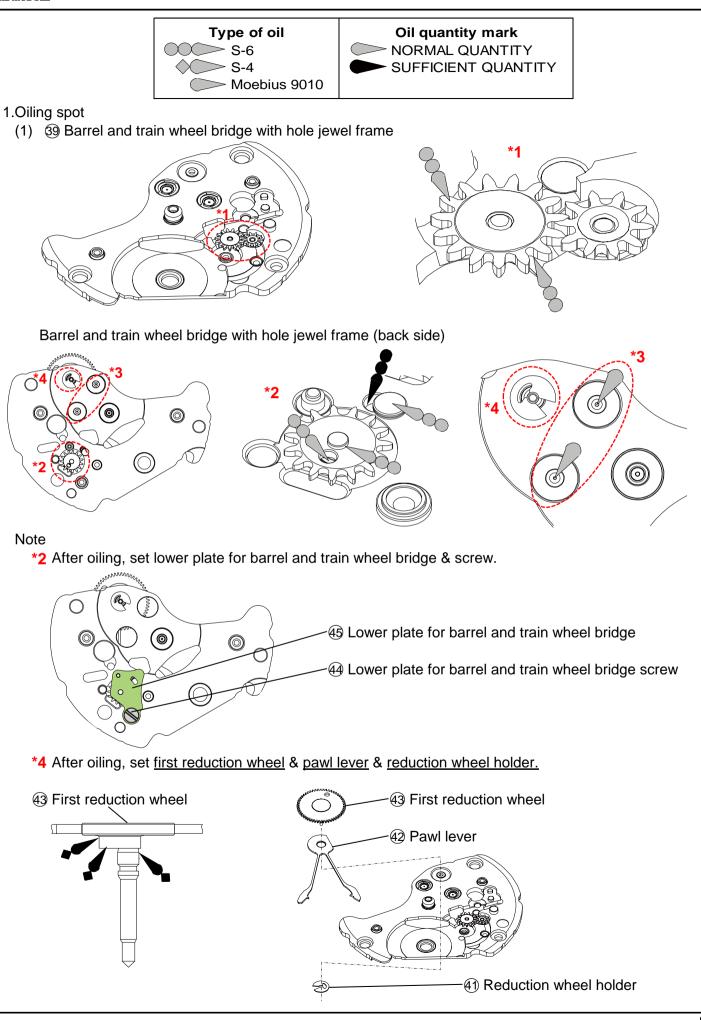
#### • List of screws

Parts No	Name	Parts No	Name
0012 919	31) Ratchet wheel screw	0012 354	Center wheel bridge screw
	<u> </u>		Pallet bridge screw (×2)
0012 168	6 Yoke spring screw (×2)		Lower plate for barrel and train wheel bridge screw Automatic train bridge screw (x2)
0012 100	Barrel and train 38 wheel bridge screw (×3)	0012 310	Auxiliary main plate screw
	Balance bridge screw		<ol> <li>Auxiliary train wheel bridge screw (×4)</li> </ol>

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

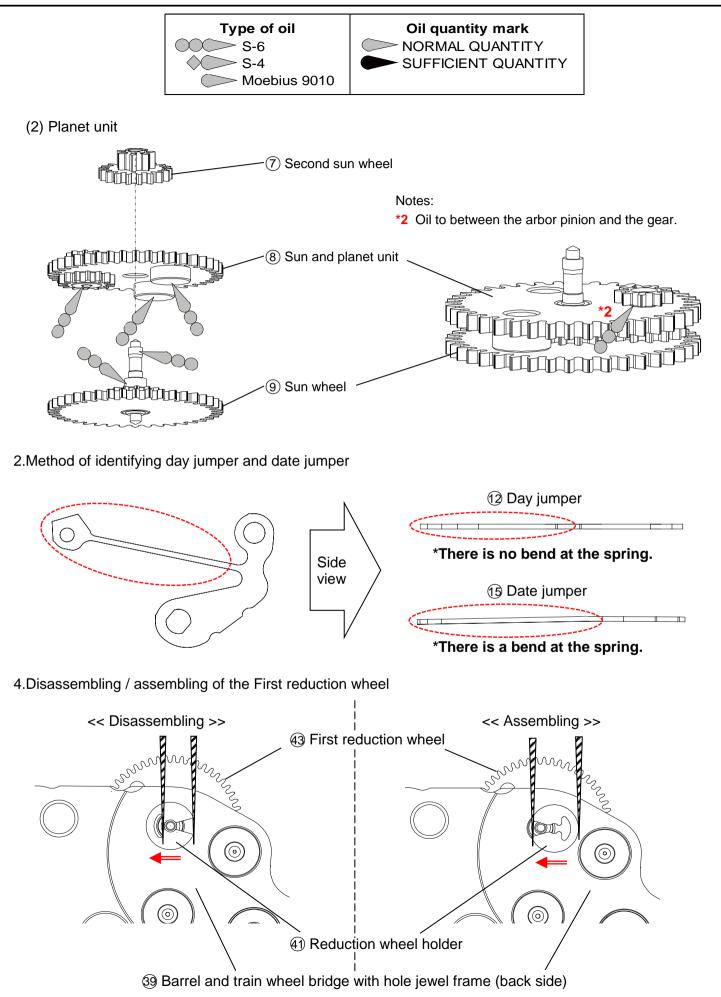


### **TECHNICAL GUIDE**

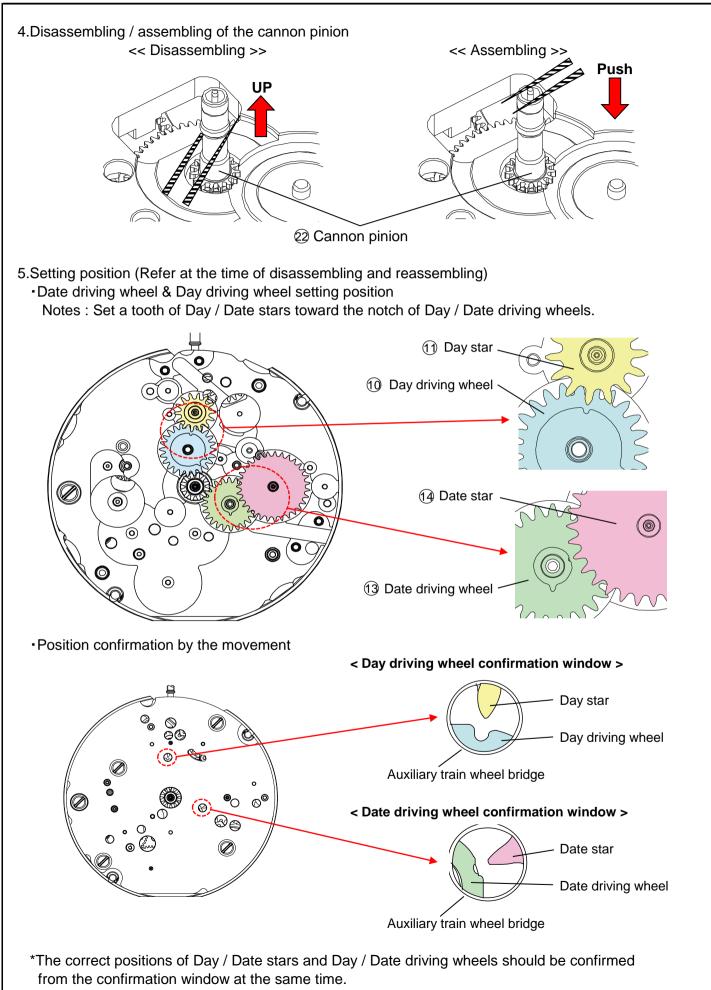




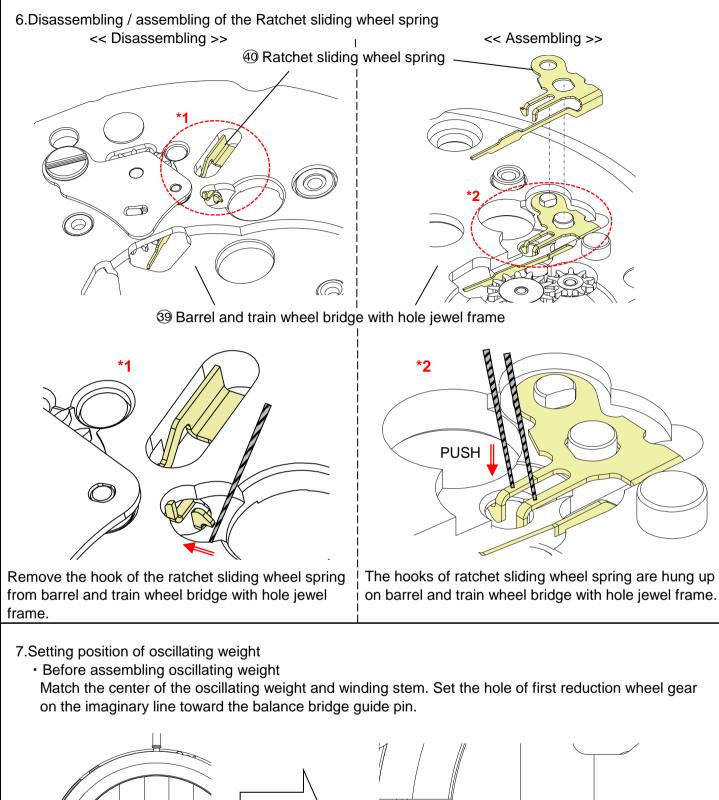
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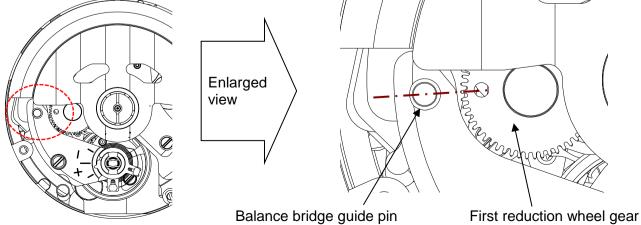






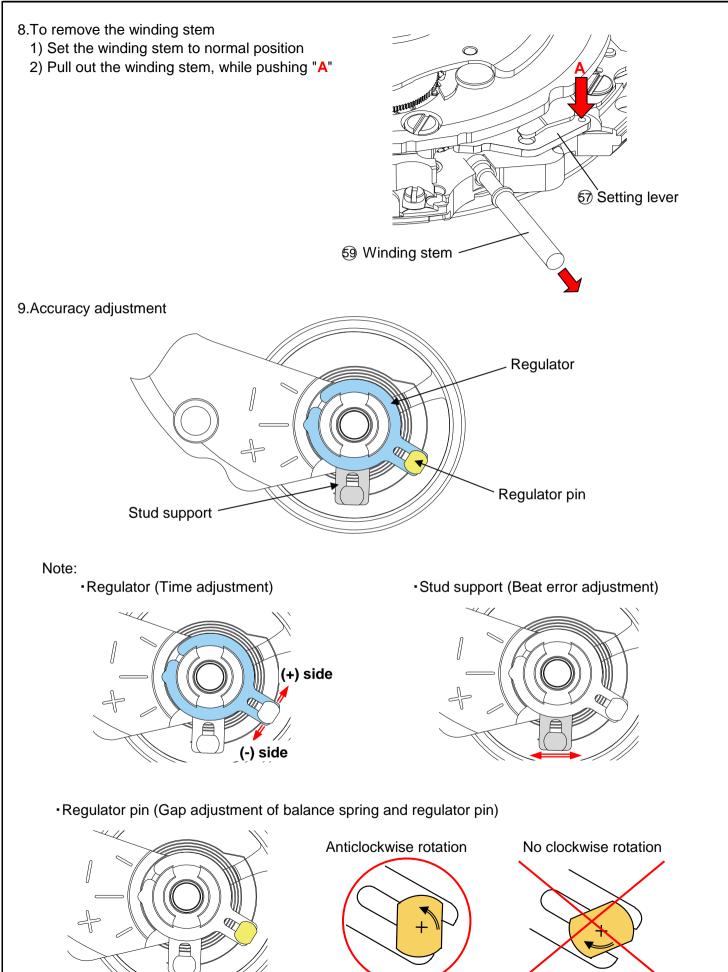




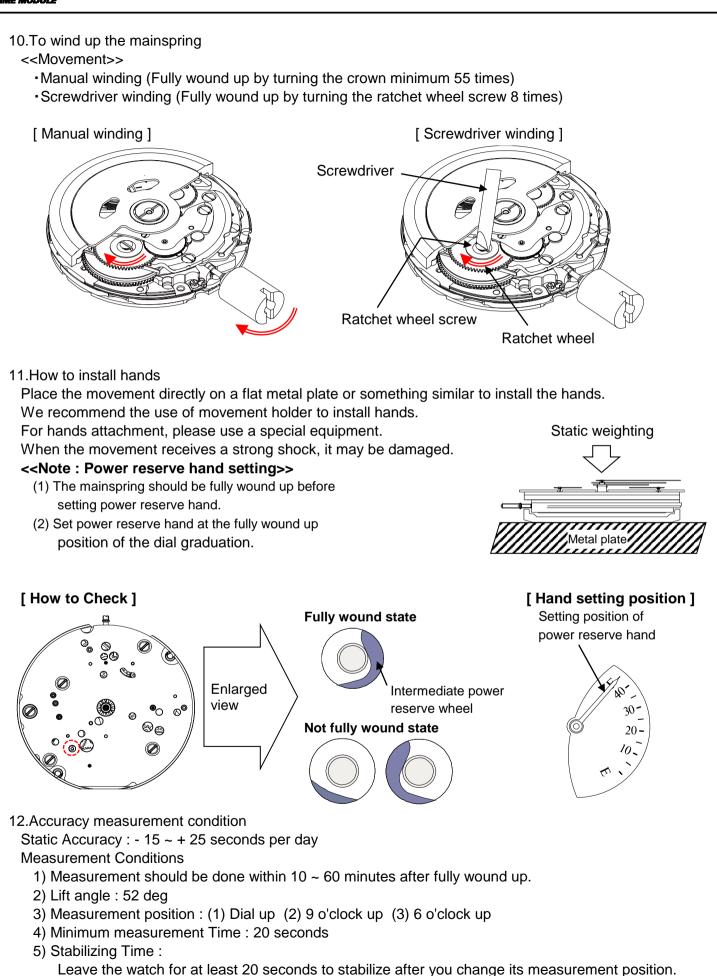




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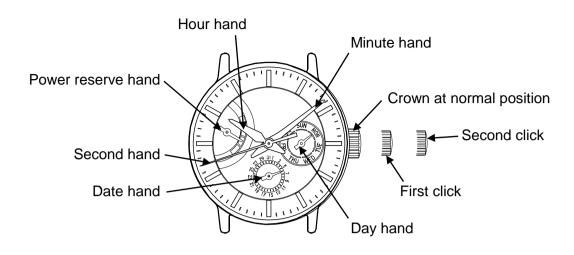








#### [Operation manual]



#### 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.
   \*When time setting is performed in counterclockwise, day and date hands reverses. Please reset by day-date correction.

#### 2.How to set the Day-date

- 1) Pull out the crown to the first click position.
- 2) Turn the crown to left for date setting.
- 3) Turn the crown to right for day setting.
- \* Do not set the calendar between 9:00 P.M. and 2:00 A.M. If the setting of the calendar is made during this period, the day or date will not change to the next day or date. Please set the calendar after changing the time other than the above period.
- Please set the calendar after changing the time other than the
- 4) Push the crown back into the normal position.

#### 3.To wind up the mainspring

- a) Manual winding (Rotate the crown clockwise at normal position)
   Fully wound up by turning the crown minimum 55 times. It will start to move naturally after shaking slightly.
- b) To wind up with winding machine.
  - Full wind up conditions (Reference information)
  - Rotary speed : 30 rpm
  - Operating time : 60 minutes