

TECHNICAL GUIDE & PARTS CATALOGUE Cal.NE15B

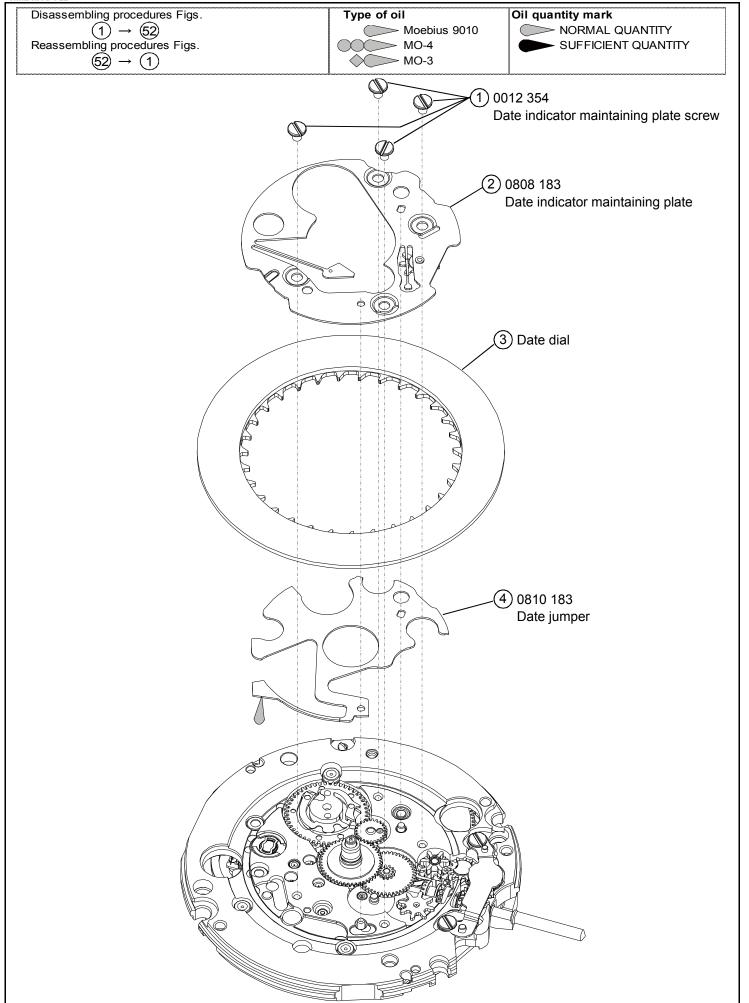
AUTOMATIC MECHANICAL



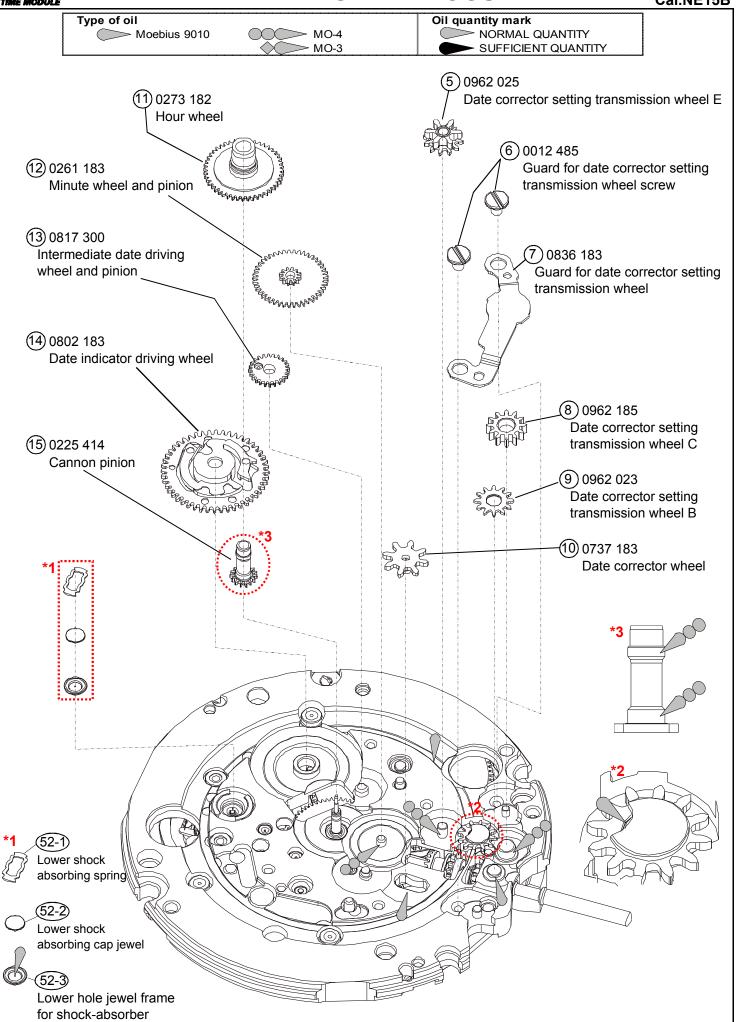
PARTS CATALOGUE / TECHNICAL GUIDE Cal.NE15B

Version-01

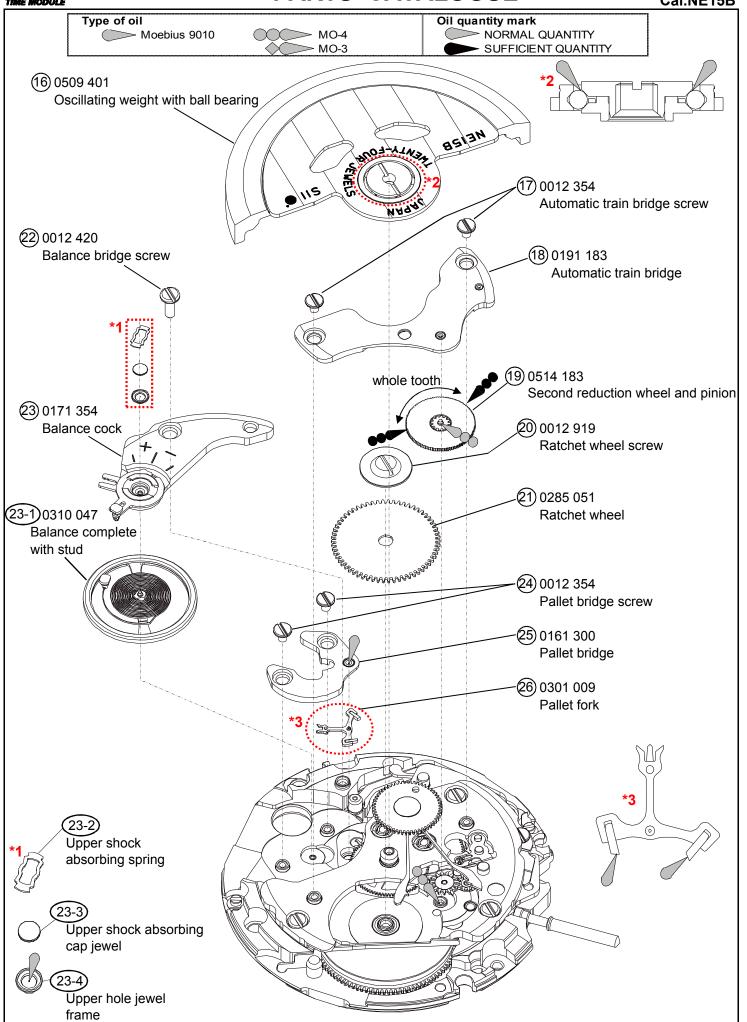
[SPECIFICAT	Cal. No.	NE1	Version-01			
Item		11				
Movement		SI III				
	Outside diameter	Φ27.40mm				
Movement size	Casing diameter	Φ27.00mm				
	Total height	5.32mm				
Time indication		3 Hands (Hour , Minute , Second) Date Calendar				
Basic function		Manual winding Automatic winding with ball bearing Time setting with stop second device Date display with quick date correction				
Frequency		21,600 vibrations per hour				
	Static accuracy	-15~+25 seconds per day * 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	53 deg.				
Accuracy	Measurement	20 seconds				
71000100y	time	* Equipment to be used : Witschi WATCH EXPERT				
	Daatuus	Difference is under 45 seconds within max value and minimum value.				
	Posture	* Measurement should be done within 10~60 minutes after fully wound up.				
	difference	* Direction of 4 positions. (1) 12 o'clock up (2) 9 o'clock up (3) 6 o'clock up (4) 3 o'clock up				
		-10~+20 seconds per day.				
	Isochronisms	* Direction of position. : Dial up				
	(24h-0h)	* Difference of static accuracy of 24h and 0h				
Duration time		More than 50 hours Mainspring after fully wound up.				
	10	* Posture to confirmation : Dial up				
		<< Movements >>				
		Fully wounded up by turning the crown minimum 55 times.				
		•Fully wounded up by turning the ratchet wheel screw 8 times.				
Winding the	mainspring	<< Complete Watch >>				
-	-	A winding machine is needed to wind up the mainspring. Full wind up conditions				
		Rotary speed: 30 rpm				
		Operating time: 60 minute				
Jewels		24 jewels				
		Left rotation	Right rotation			
Crown	Normal position		Manual winding			
position	First click	Date setting	Free			
•	Second click	<u> </u>				
-	-	Time setting with stop-second device				



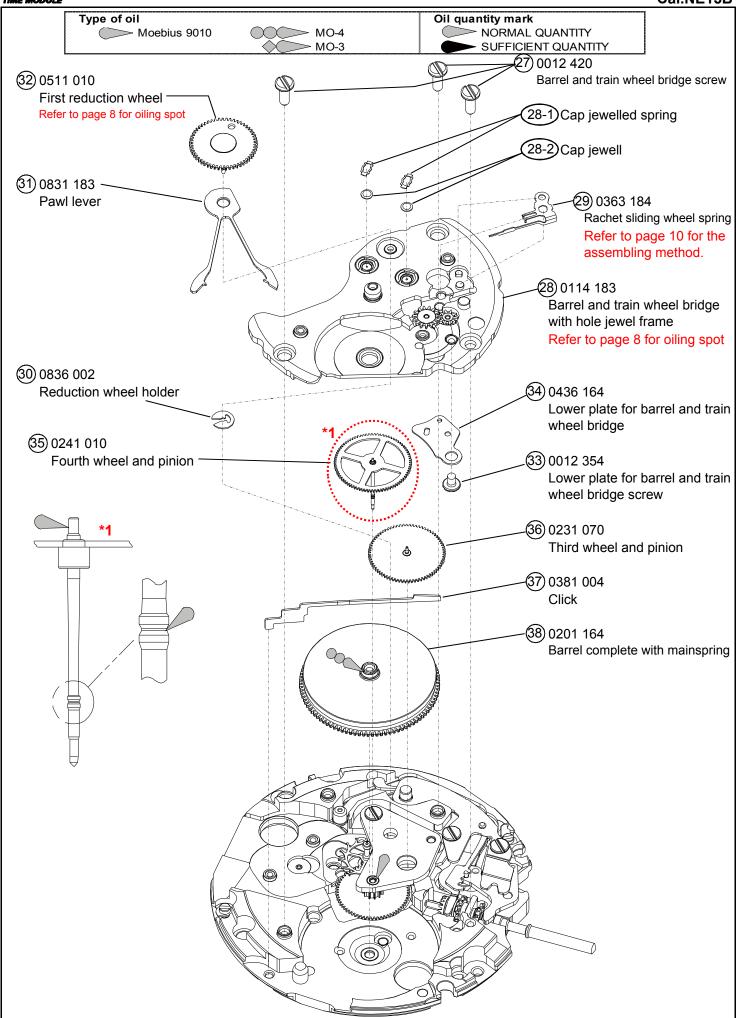




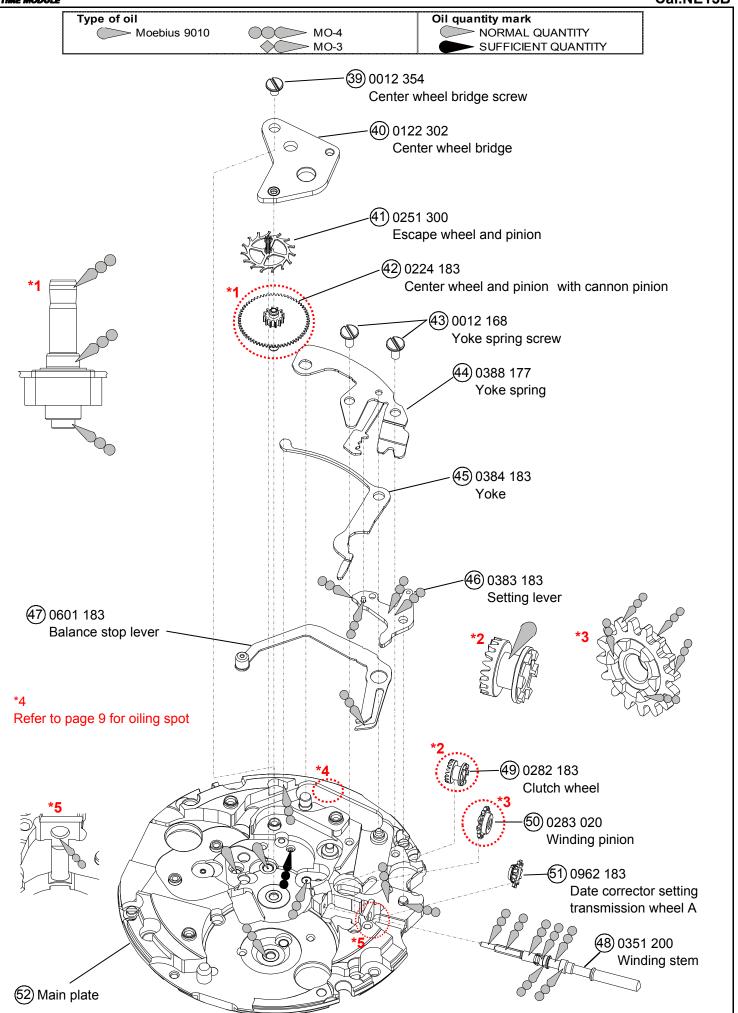












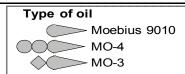


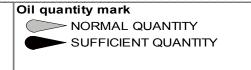
3 Date dial

<u> </u>								
Parts code	Position	Position of	Color of	Color of				
Faits code	of crown	day frame	letters	background				
0878 208 3H		3H	Black	White				

■ List of screw

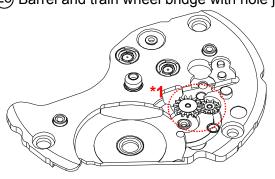
=:00	ist of sciew									
No	Parts code	Parts name	Parts form	No	Parts code	Parts name	Parts form			
1		Date indicator maintaining plate screw (x4)		6)	0012 495	Guard for date corrector setting transmission wheel				
17)		Automatic train bridge screw (x2)		0	0012 465	transmission wheel screw (x2)				
24)	0012 354	Pallet bridge screw (x2)		20	0012 919	Ratchet wheel screw				
33		Lower plate for barrel and train wheel bridge screw								
39		Center wheel bridge screw	ŭ		2)	Balance bridge screw				
43	0012 168 Yoke spring screw (x2)			27)	0012 420	Barrel and train wheel bridge screw (x3)				

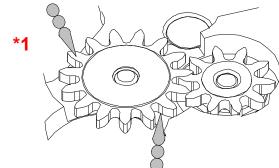




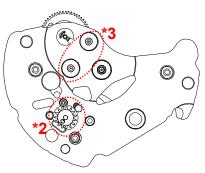
1.Oiling spot

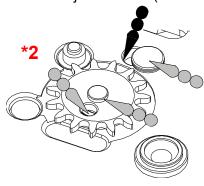
(28) Barrel and train wheel bridge with hole jewel frame

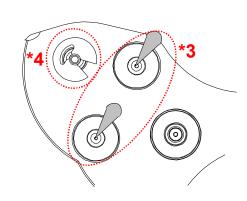




Barrel and train wheel bridge with hole jewel frame (back side)

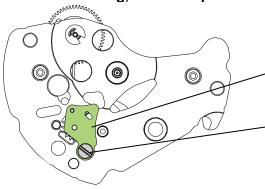






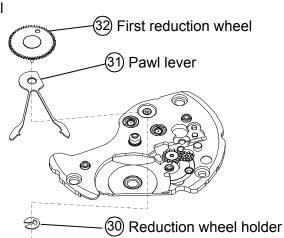
Note

*2 After oiling, set lower plate for barrel and train wheel bridge & screw.



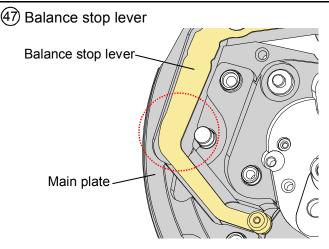
- (34) Lower plate for barrel and train wheel bridge
- 33 Lower plate for barrel and train wheel bridge screw

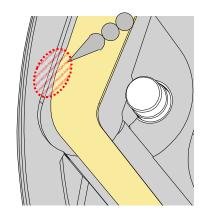
*4 After oiling, set <u>first reduction wheel</u> & <u>pawl lever</u> & <u>reduction wheel holder</u>. (32) First reduction wheel











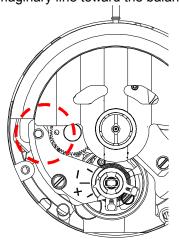
Contact part of main plate and balance stop lever

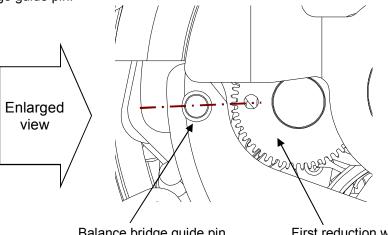
2. Setting position of oscillating weight

-Before assembling oscillating weight.

Match the center of the oscillating weight and winding stem. Set the hole of first reduction wheel gear on the

imaginary line toward the balance bridge guide pin.



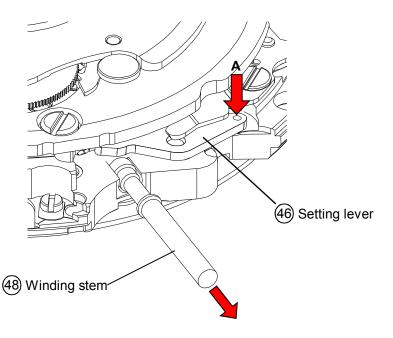


Balance bridge guide pin

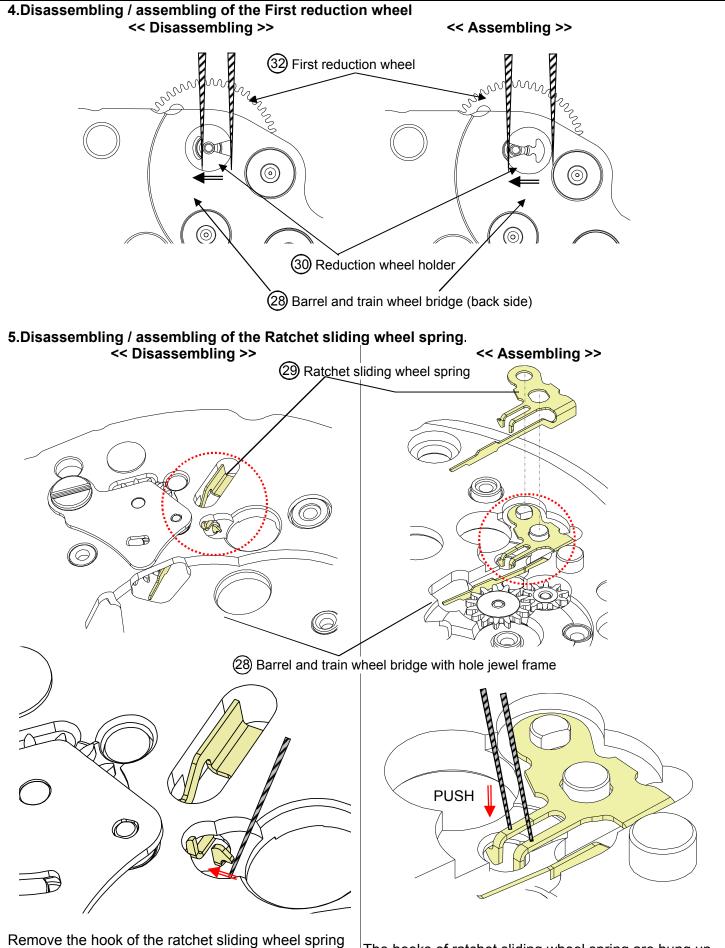
First reduction wheel gear

3.To remove the winding stem

- 1) Set the winding stem to normal position.
- 2) Pull out the winding stem, while pushing "A"





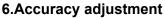


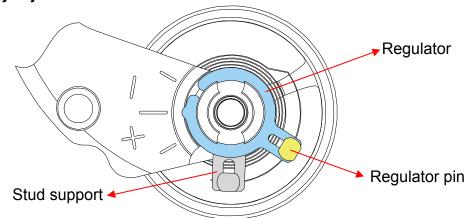
Remove the hook of the ratchet sliding wheel spring from barrel and train wheel bridge with hole jewel frame.

The hooks of ratchet sliding wheel spring are hung up on barrel and train wheel bridge with hole jewel frame.



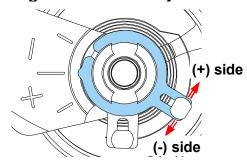




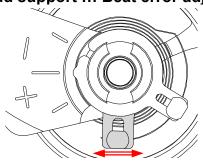


Note:

•Regulator ... Time adjustment

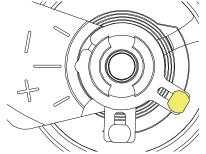


•Stud support ... Beat error adjustment

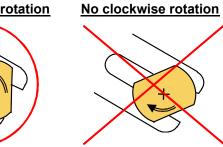


•Regulator pin ... Gap adjustment of balance spring and regulator pin

Anticlockwise rotation No clockwise



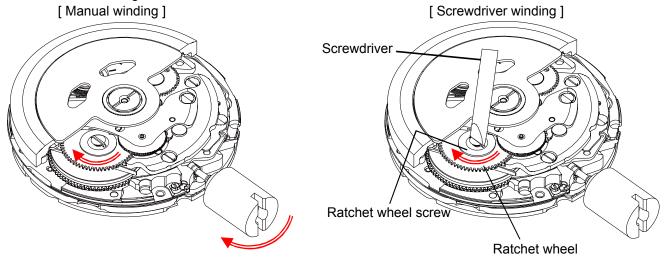




7.To wind up the mainspring

<<Movement>>

The mainspring would be fully wound up by turning the ratchet wheel screw 8 times clockwise. (Manual winding or Screwdriver)
Manual winding ... Rotate crown clockwise at normal position by min 55 times. (Equal to ratchet wheel screw 8 times)
Screwdriver winding ... Turn the ratchet wheel screw 8 times clockwise.



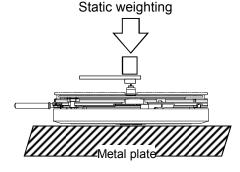
8. How to attach hands

Place the movement directly on a flat metal plate or something similar to attach the hands.

We recommend the use of movement holder to attach hands.

For hands attachment, please use a special equipment.

When the movement receives a strong shock, it may be damaged.



9. Accuracy measurement condition

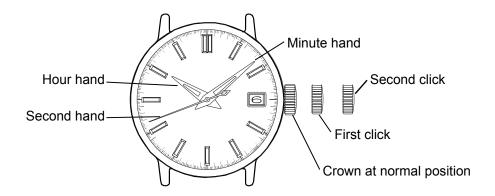
Static Accuracy: -15~+25 seconds per day

Measurement Conditions

- 1) Measurement should be done within 10~60 minutes after fully wound up.
- 2) Lift angle: 53 deg
- 3) Measurement position: (1) Dial up (2) 9 o'clock up (3) 6 o'clock up
- 4) Minimum measurement Time: 20 seconds
- 5) Stabilizing Time:

Leave the watch for at least 20 seconds to stabilize after you change its measurement position.





1.Time setting

- 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.

2.Date setting

- 1) Pull out the crown to the first click position.
- 2) Turn the crown to left for date setting.
 - * Do not set the calendar between 10:00 P.M. and 1:00 A.M. If the setting of the calendar is made during this period, the date will not change to the next date. Please set the calendar after changing the time other than the above period.
- 3) Push the crown back into the normal position.

3.To wind up the mainspring

a) Manual winding ... Rotate the crown clockwise at normal position.

Wind turning the ratchet wheel screw 8 times. It will start to move naturally after shaking slightly.

b) To wind up with winding machine.

Full wind up conditions

Rotary speed : 30 rpmOperating time : 60 minutes