



TECHNICAL GUIDE & PARTS CATALOGUE Cal.NE15

AUTOMATIC MECHANICAL

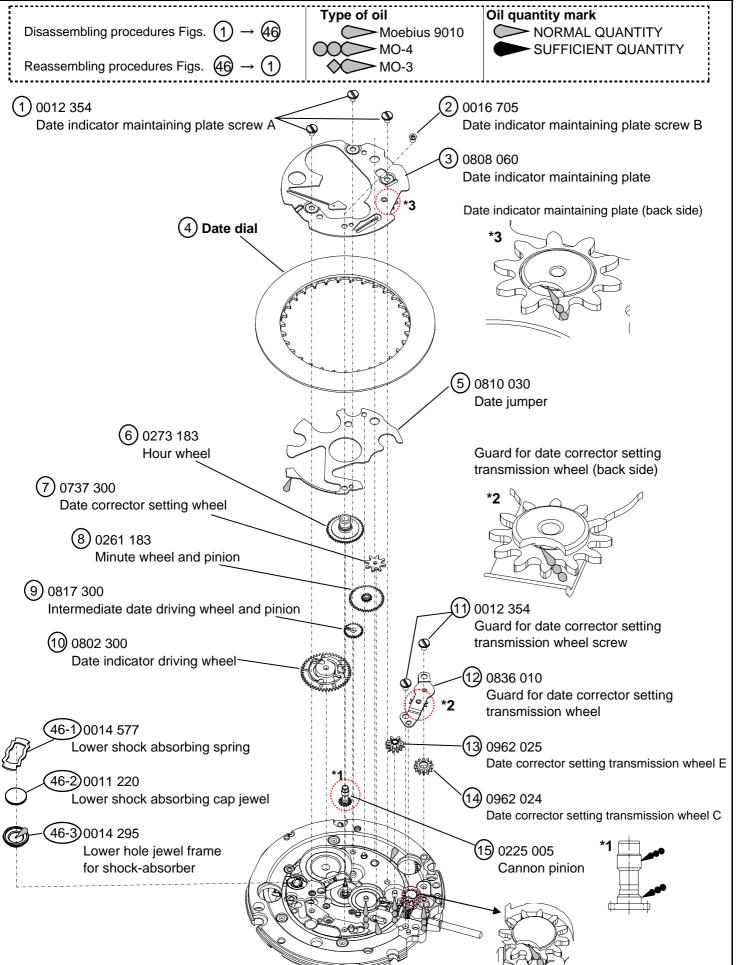


PARTS CATALOGUE / TECHNICAL GUIDE Cal.NE15

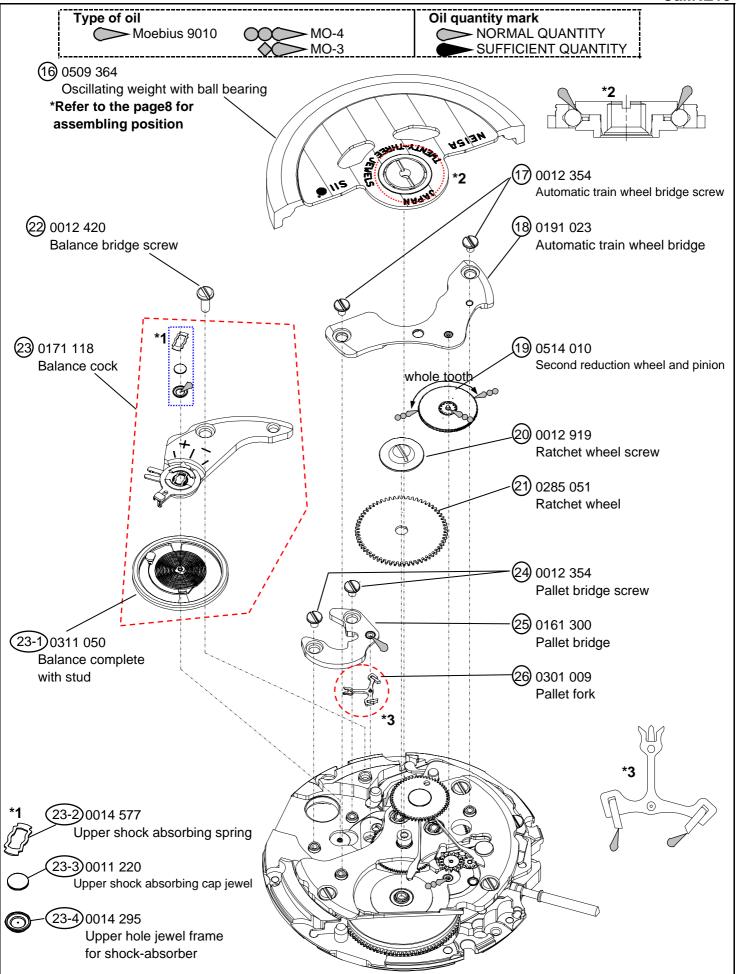
Version-01

Item	Cal. No.	NE15				
Movement						
	Outside diameter	Φ27.40mm				
Movement size	Casing diameter	Φ27.00mm				
0.20	Total height	5.32 mm				
Time indication		3 Hands (Hour , Minute , Second) Date Calendar				
Basic function		Manual winding Automatic winding with ball bearing Stop second device Date display with quick date correction				
Frequency		21,600 vibrations per hour				
	Static accuracy Measurement position	-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. Direction of 3 positions. (1) Dial up (2) 9 o'clock up (3) 6 o'clock up				
	Lift angle	53 deg.				
Accuracy	Measurement time	20 seconds * Equipment to be used : Witschi WATCH EXPERT Difference is under 45 seconds within max value and min value.				
	Posture difference	* 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 of position. : Dial up * Difference of static accuracy of 24h and 0h				
Duration tim	ie	More than 50 hours Mainspring after fully wound up. * Posture to confirmation : Dial up				
Winding the mainspring		<< Movements >> •Fully wounded up by turning the crown min 55 times. •Fully wounded 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 •Rotary speed: 30 rpm •Operating time: 60 minutes				
Jewels		23 jewels				
Crown	Normal position	Left rotation Free	Right rotation Manual winding			
position	First click	Date setting	Free			
	Second click	Hand setting	Hand setting			

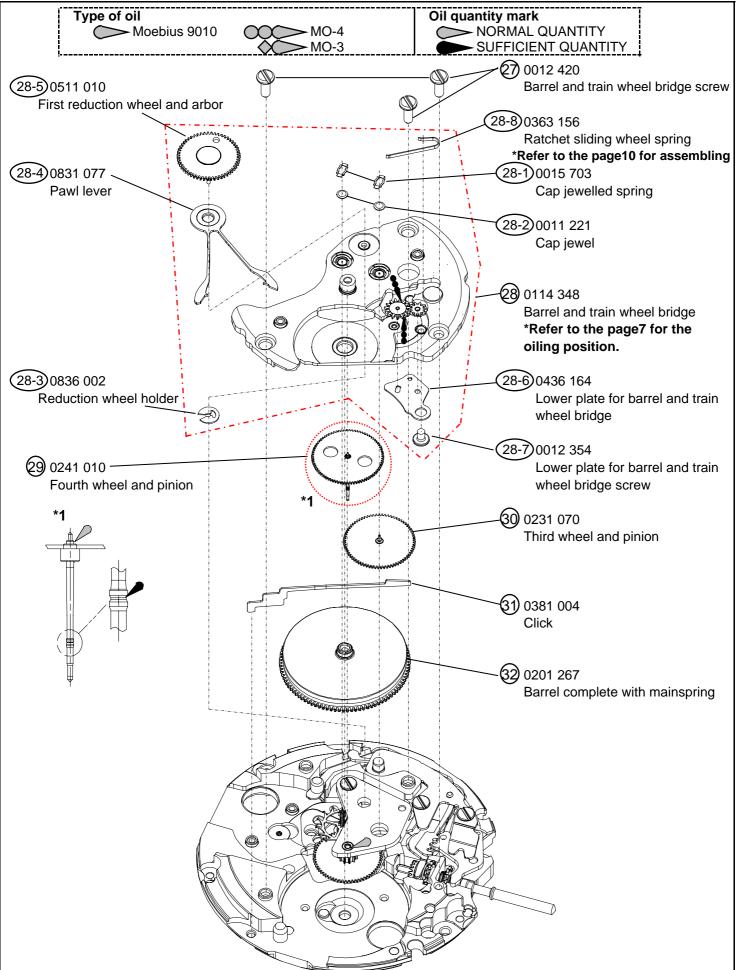




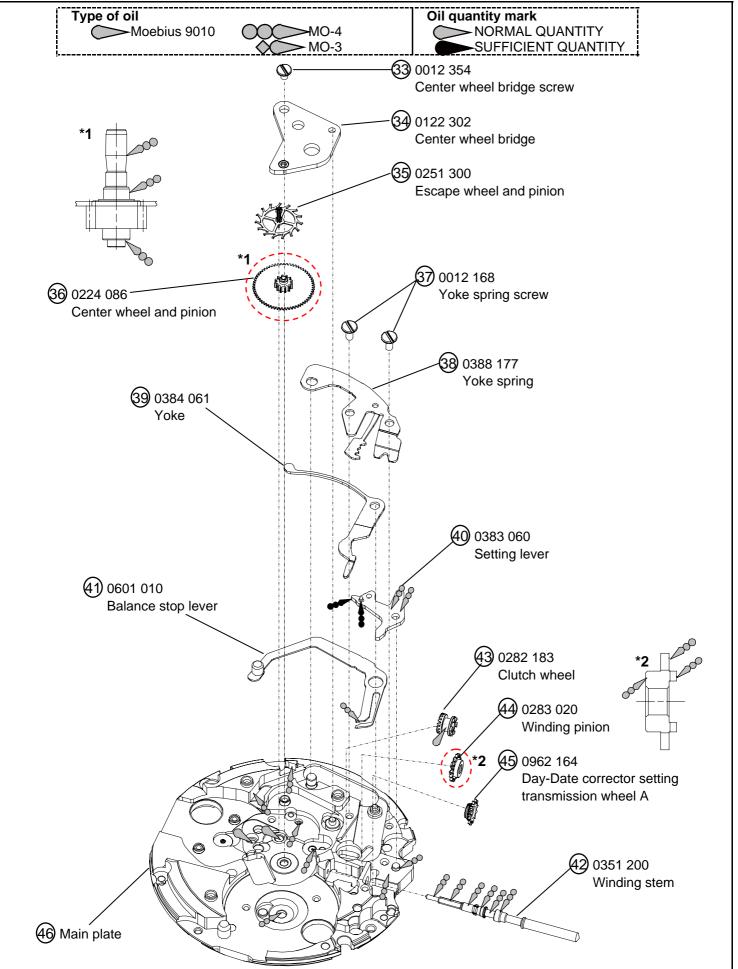














Remarks

4 Date dial

Cal. code	Parts code	Position of crown	Position of date frame	Color of numbers	Color of background
NE15	0878 080	3H	3H	Black	White

List of screws

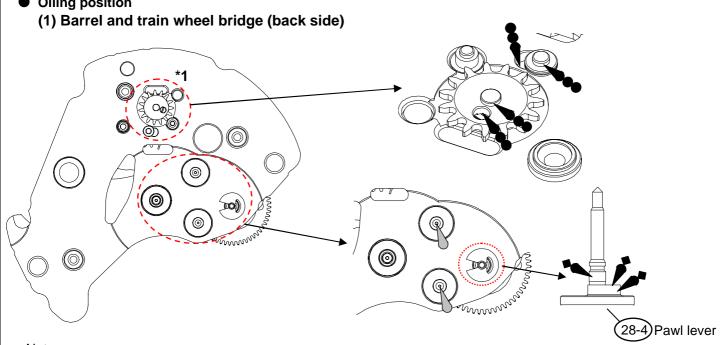
Unit of screws									
Parts No	Name	Parts No	Name	Parts No	Name				
0012 919	② Ratchet wheel screw	0016 705	Date indictor (2) maintaining plate screw (B)	0012 354	Center wheel bridge screw Date indicator maintaining plate screw (A) (×3)				
0012 168	Yoke spring screw (x2)	0012 420	Barrel and train (27) wheel bridge screw (×3) Balance bridge	0012 334	Guard for date corrector setting transmission wheel screw (×2)				
			screw		Pallet bridge screw (x2) 28 Lower plate for barrel and train wheel bridge screw				
					Automatic train wheel bridge screw (x2)				

*All parts code are subject to change without notice.



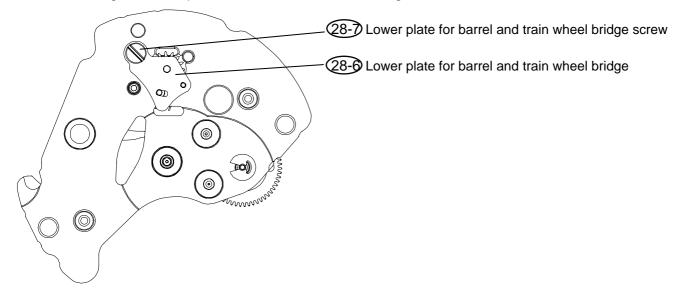


Oiling position



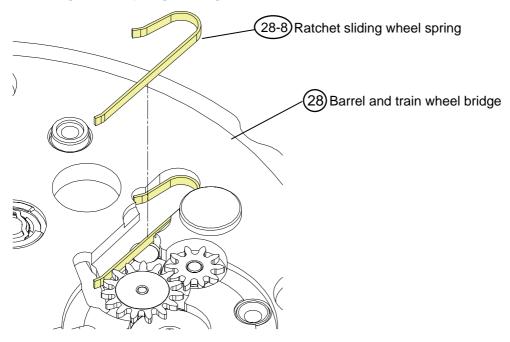
Notes:

*1 After oiling, set Lower plate for barrel and train wheel bridge & screw.





1.Rachet sliding wheel spring setting

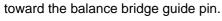


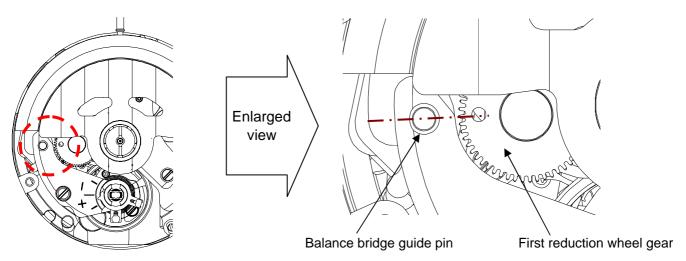
2. Setting position of oscillating weight

•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



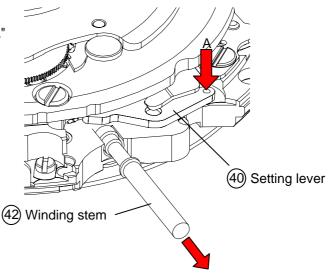




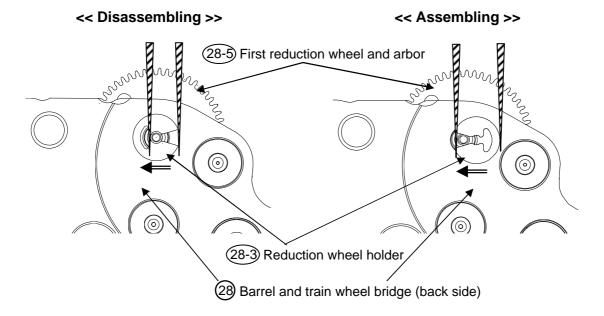


3.To remove the winding stem

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



4.Disassembling / assembling of the First reduction wheel

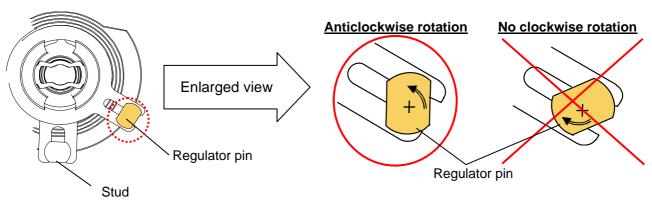


5. Rotative direction of regulator pin

- ·Rotative direction of regulator pin : Anticlockwise only
- •Hair spring can be damaged by clockwise rotation.

⟨Note⟩

Please do the following when a movement's accuracy is out of the guaranteed range, or after disassembly.





TECHNICAL GUIDE

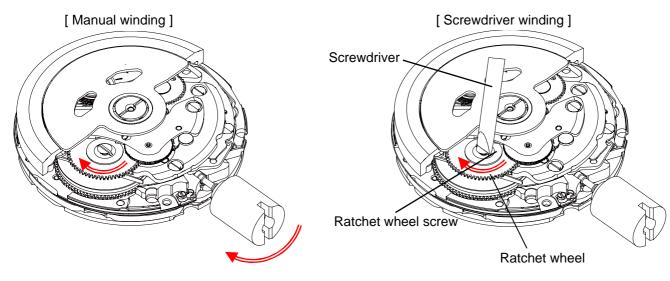
6.To wind up the mainspring

<<Movement>>

The mainspring would be fully wounded 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.



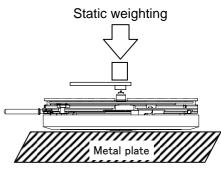
7. How to attach hands

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.



8. 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.



First click

Crown at normal position



[NE15 operation manual] Hour hand Second click

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