Revised on : 13. 03. 2014



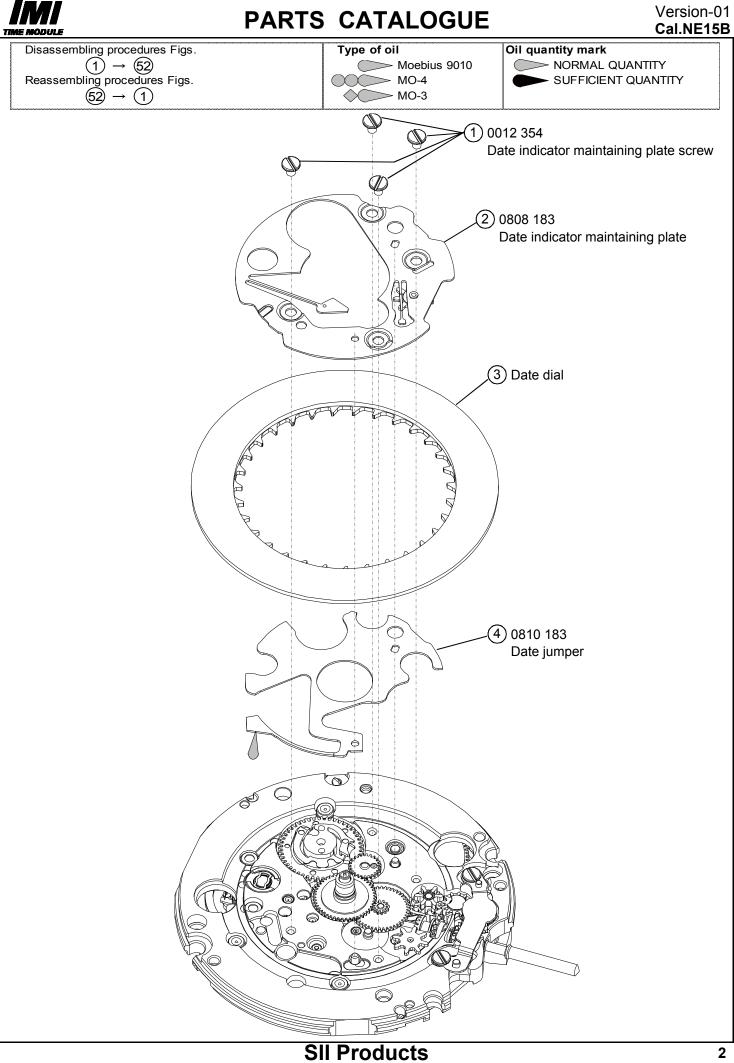
# TECHNICAL GUIDE & PARTS CATALOGUE Cal.NE15B

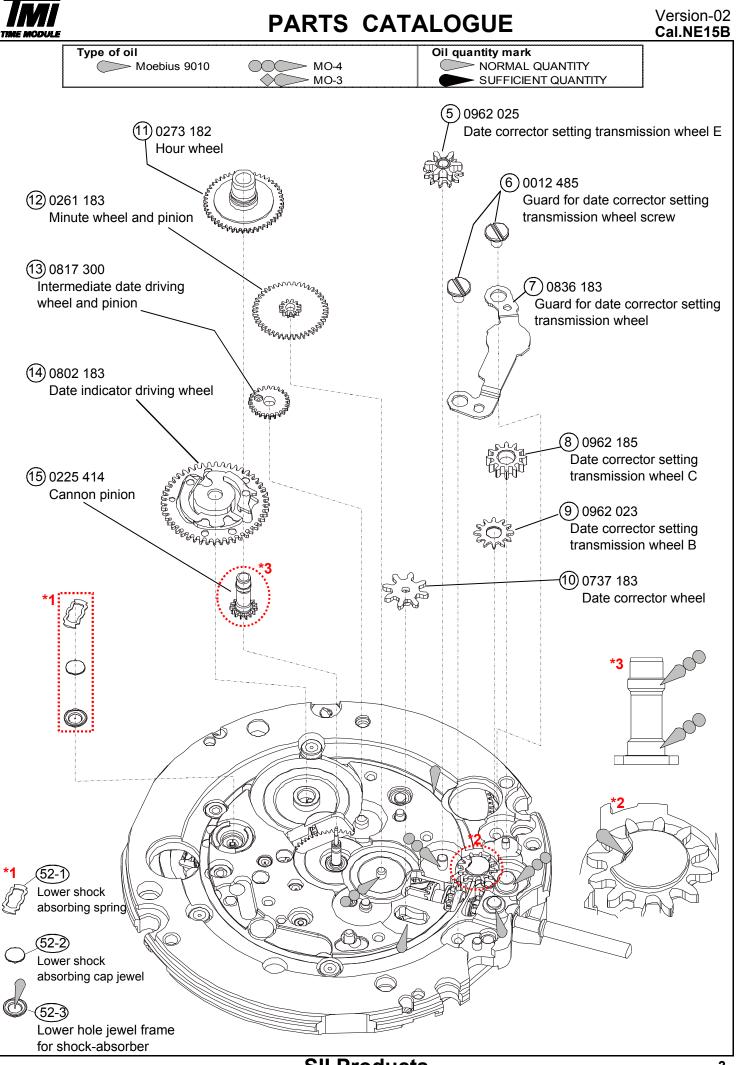
## AUTOMATIC MECHANICAL

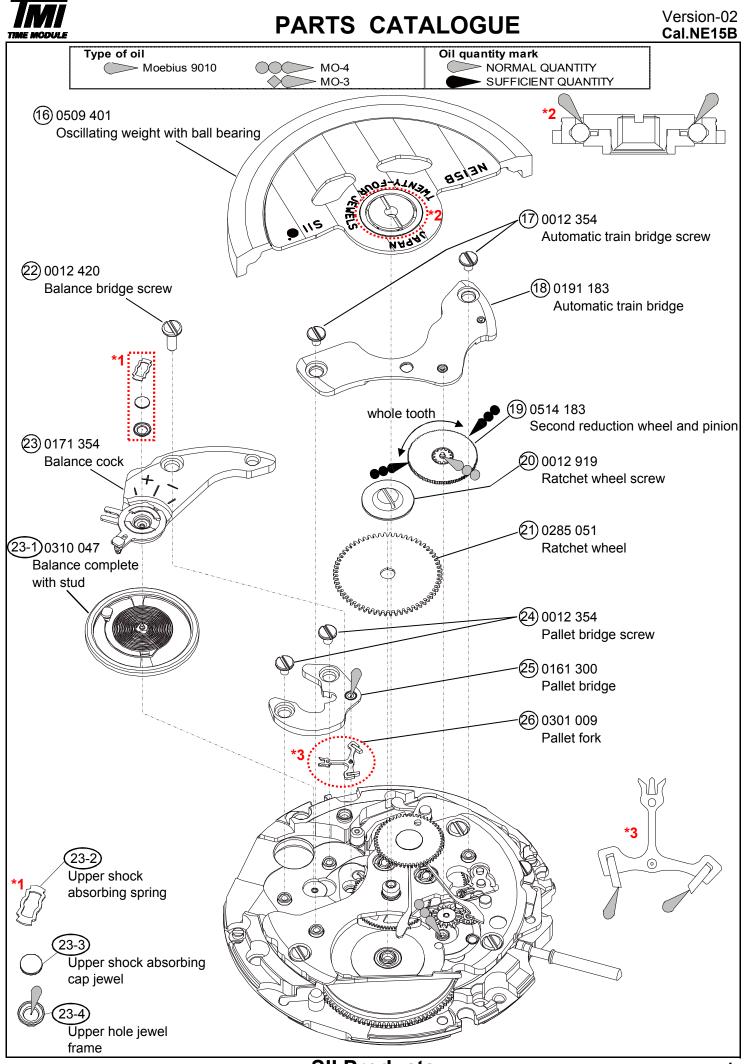


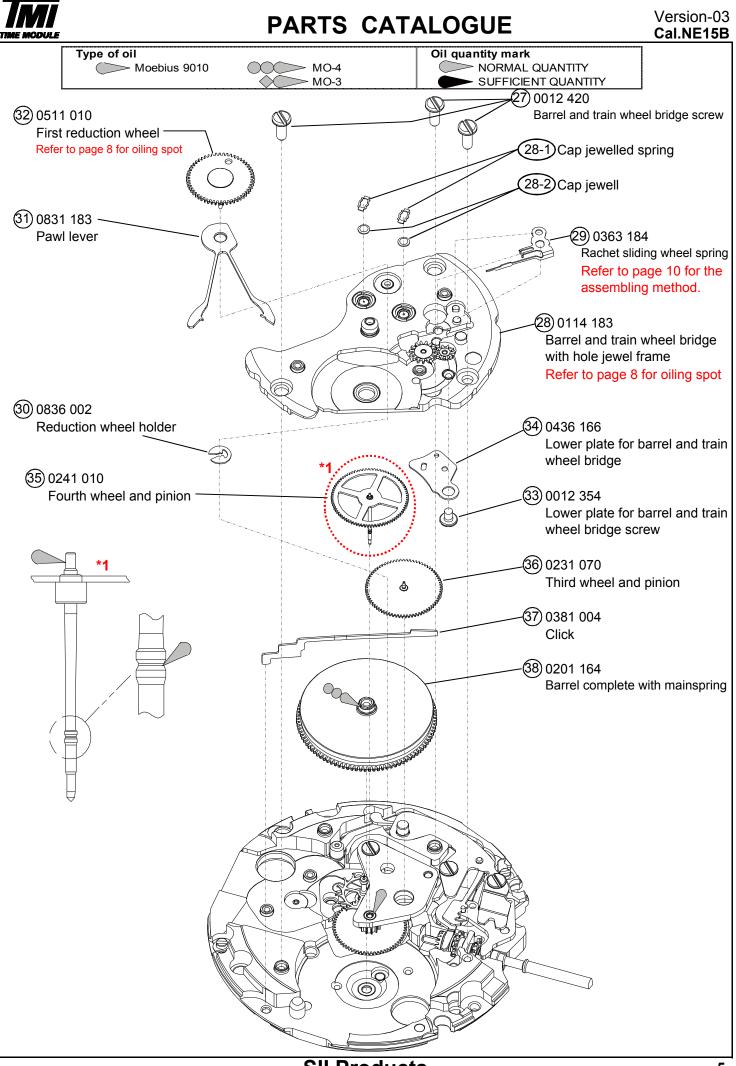
## PARTS CATALOGUE / TECHNICAL GUIDE Cal.NE15B

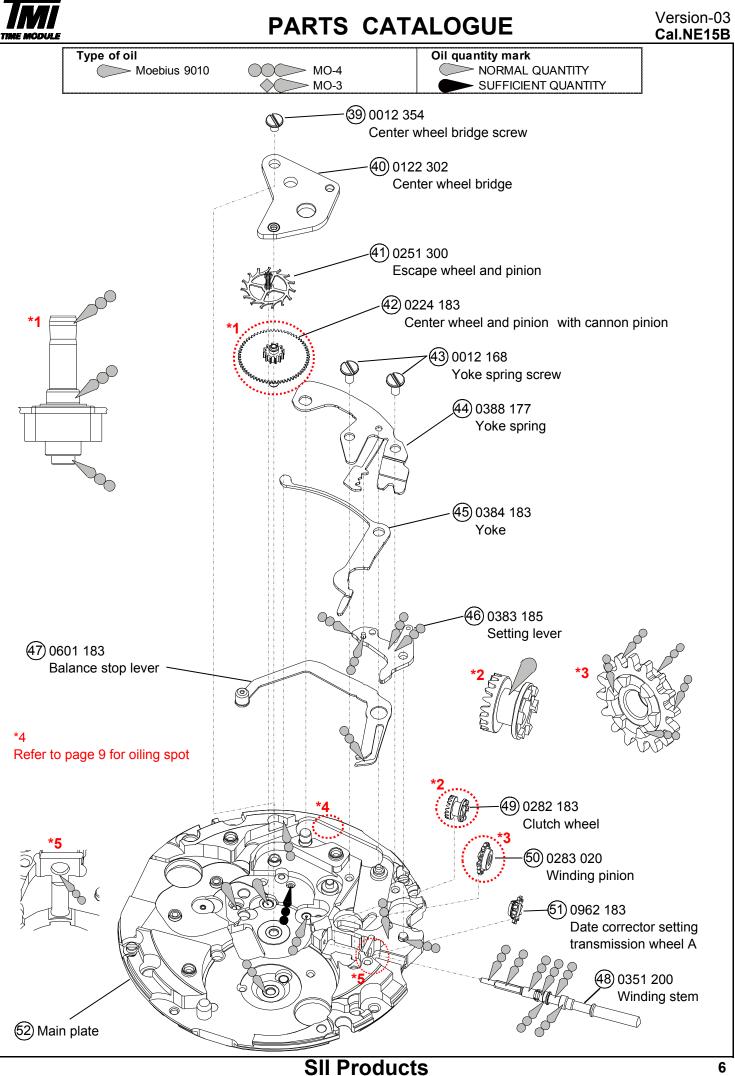
<b>TIME MODUL</b> SPECIFICA		Janie I.		Version-0		
tem	Cal. No.	NE15B				
Movement						
Movement size	Outside diameter	Φ27.40mm				
	Casing diameter	Φ27.00mm				
	Total height	5.32mm				
Time indication		3 Hands ( Hour , Minute , Second )				
Basic function		Date Calendar Manual winding Automatic winding with ball bearing Time setting with stop second device Date display with quick date correction				
Frequency		21,600 vibrations per hour				
	Static accuracy	<ul> <li>-15~+25 seconds per day</li> <li>* Measurement should be done within 10~60 minutes after fully wound up.</li> <li>* All measurements are made without the calendar in function.</li> </ul>				
	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 time	20 seconds				
	Posture difference	<ul> <li>* Equipment to be used : Witschi WATCH EXPERT</li> <li>Difference is under 45 seconds within max value and minimum value.</li> <li>* Measurement should be done within 10~60 minutes after fully wound up.</li> <li>* Direction of 4 positions.</li> <li>(1) 12 o'clock up (2) 9 o'clock up (3) 6 o'clock up (4) 3 o'clock up</li> </ul>				
	lsochronisms (24h-0h)	-10~+20 seconds per day. * Direction of position. : Dial up * Difference of static accuracy of 24h and 0h				
Duration tim	ne	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 minimum 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 minute				
Jewels		24 jewels				
Crown position		Left rotation	Right rotation			
	Normal position First click	Free Date setting	Manual winding Free			
	Second click	Time setting with st				
		SII Products				











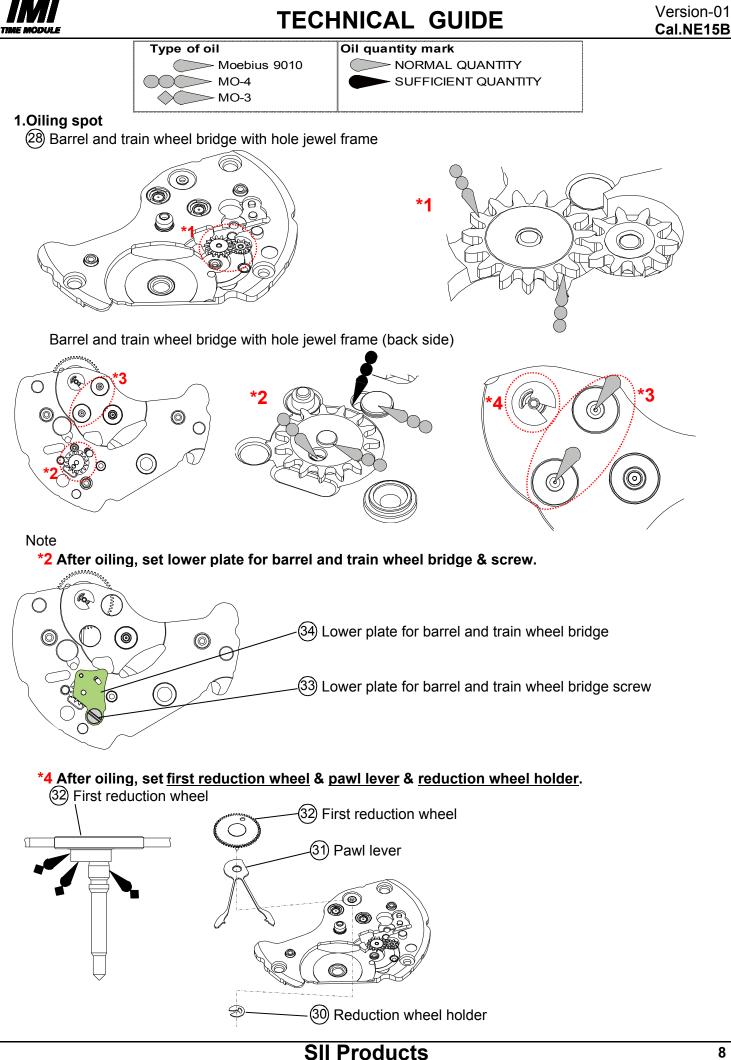


## PARTS CATALOGUE

3	Date dial									
•	Parts code	Position	Position of	Color of	Color of					
	T ans coue	of crown	day frame	letters	background					
	0878 208	3H	3H	Black	White					

#### List of screw

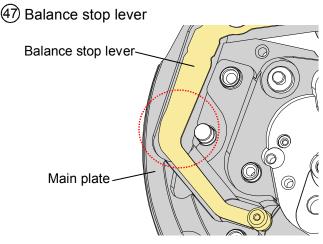
No	Parts code	Parts name	Parts form	No	Parts code	Parts name	Parts form
1		Date indicator maintaining plate screw (x4)		6	0012 495	Guard for date corrector setting transmission wheel	
(17)		Automatic train bridge screw (x2)		0		transmission wheel screw (x2)	
24)	0012 354	Pallet bridge screw (x2)		20	0012 919	Ratchet wheel screw	
33		Lower plate for barrel and train wheel bridge screw					
39		Center wheel bridge screw		22	0040 400	Balance bridge screw	
43	0012 168	Yoke spring screw (x2)		27	0012 420	Barrel and train wheel bridge screw (x3)	

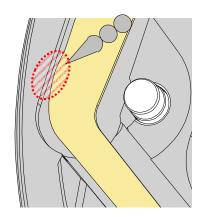




## **TECHNICAL GUIDE**

## Version-01 Cal.NE15B





Contact part of main plate and balance stop lever

First reduction wheel gear

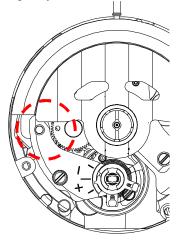
#### 2.Setting position of oscillating weight

·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.

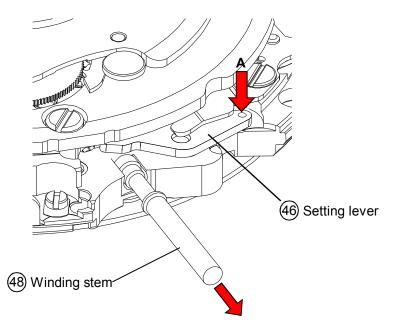
Balance bridge guide pin

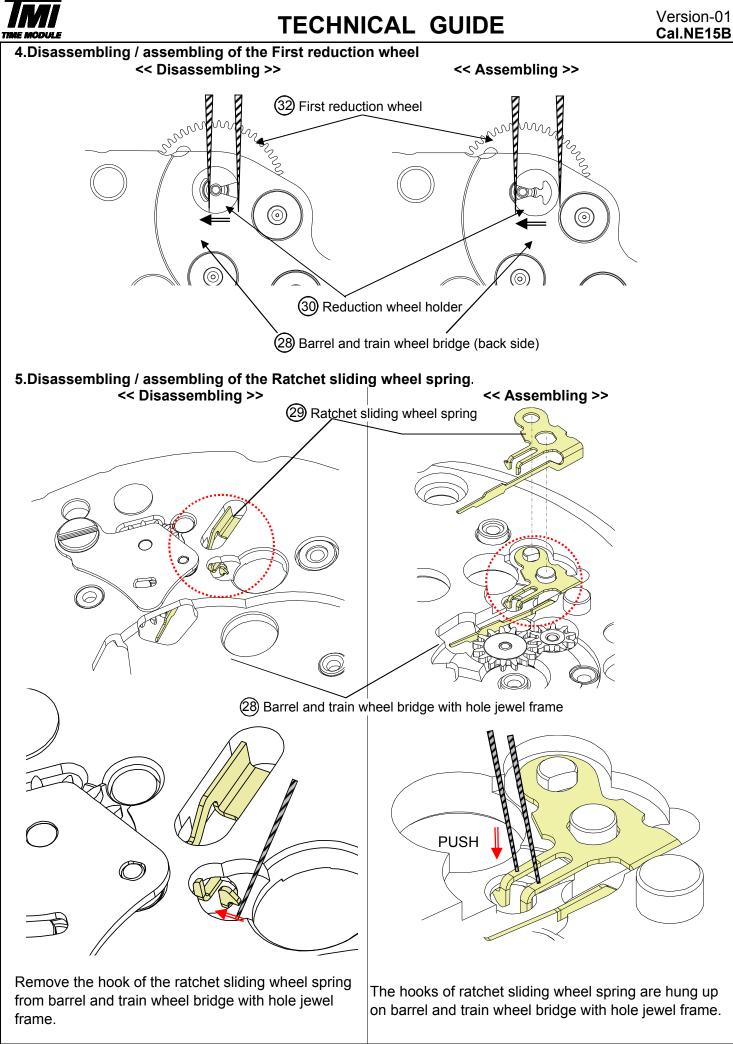
Enlarged view

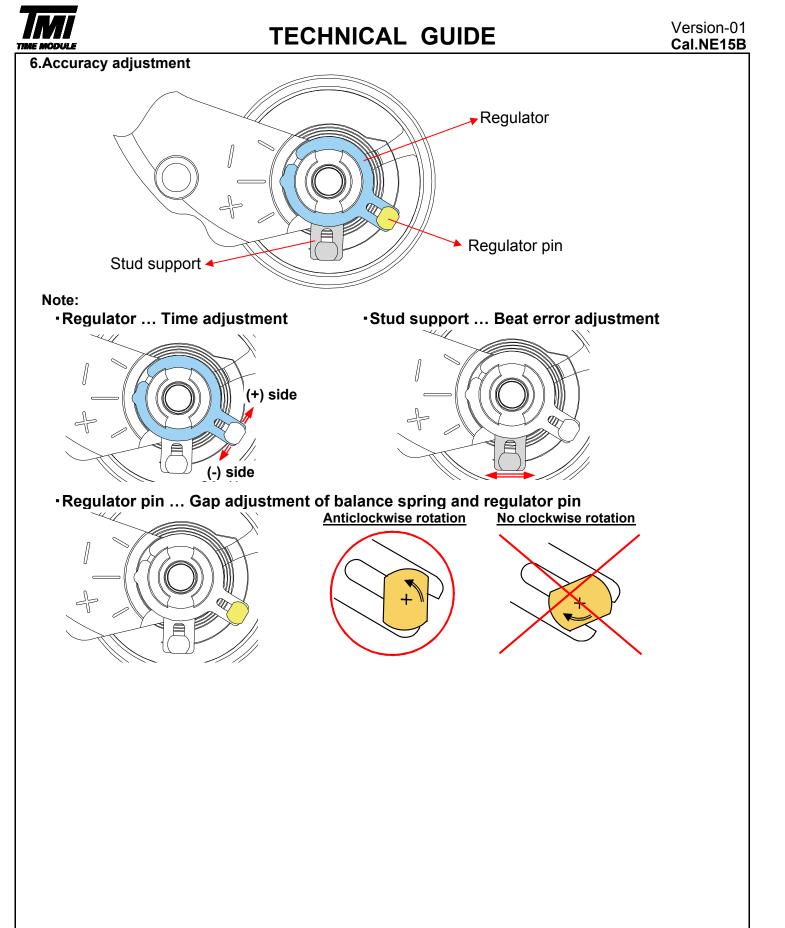


#### 3.To remove the winding stem

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







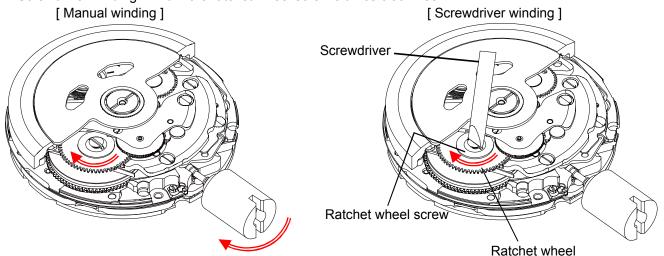


Static weighting

#### 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. S For hands attachment, please use a special equipment. When the movement receives a strong shock, it may be damaged.

#### 9. Accuracy measurement condition

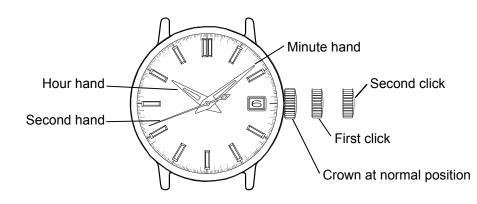
Static Accuracy : -15~+25 seconds per day Measurement Conditions

- 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.



### **OPERATION**



#### 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 rpm
- •Operating time : 60 minutes