

TECHNICAL GUIDE & PARTS CATALOGUE Cal. NH0*/1* Series

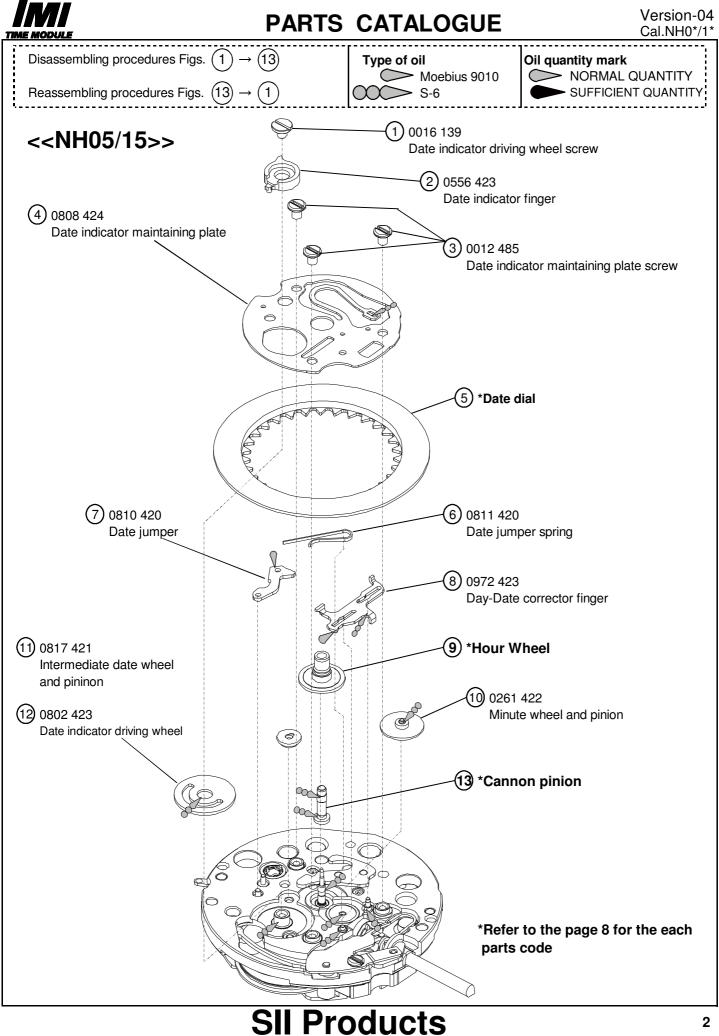
AUTOMATIC MECHANICAL

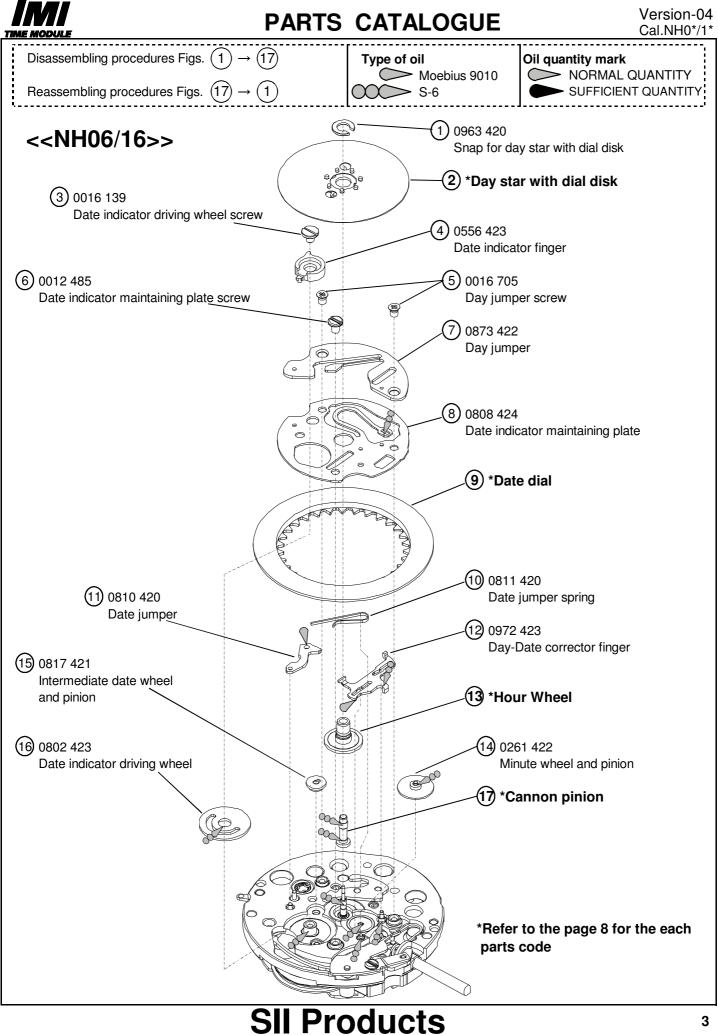


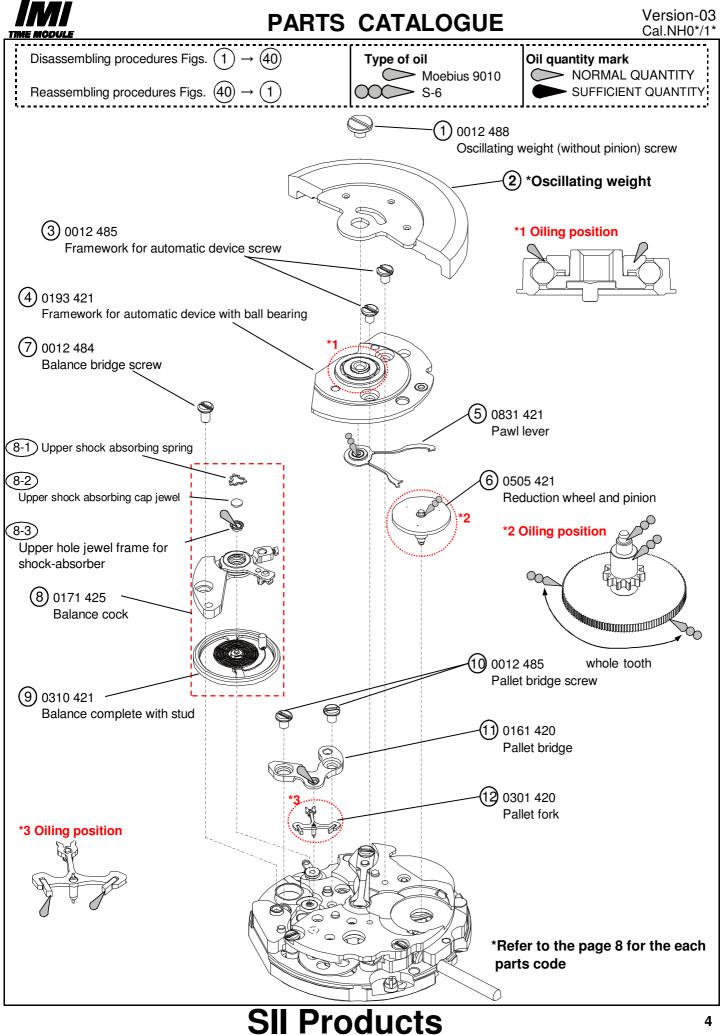


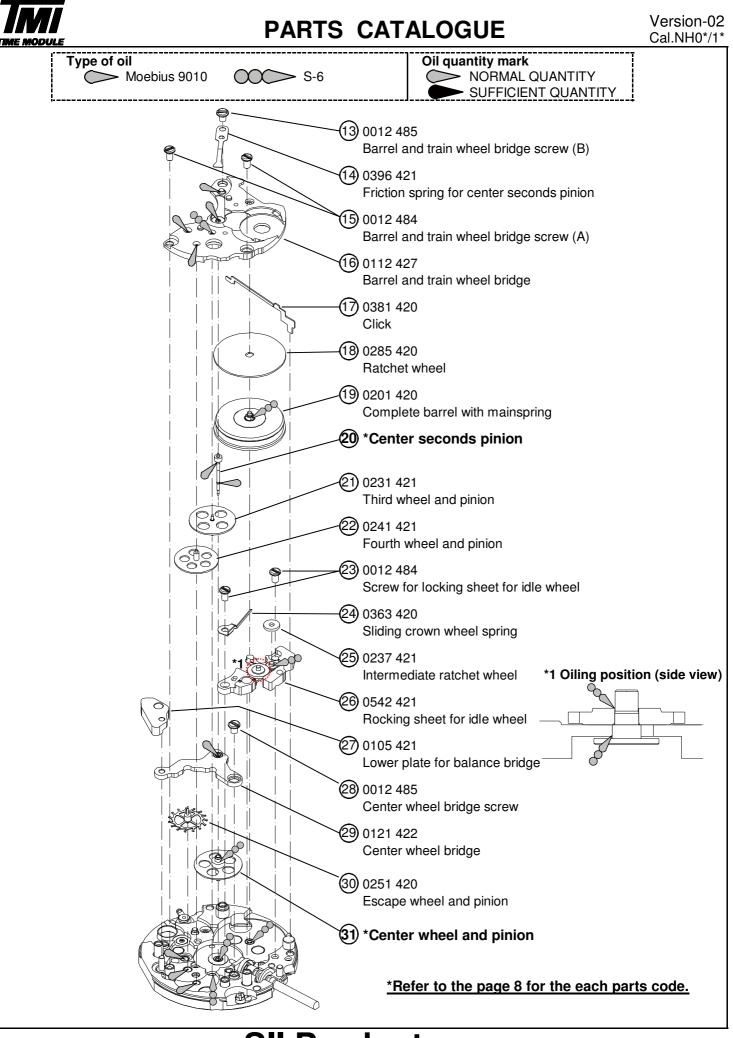
PARTS CATALOGUE / TECHNICAL GUIDE Cal.NH0*/1* Series

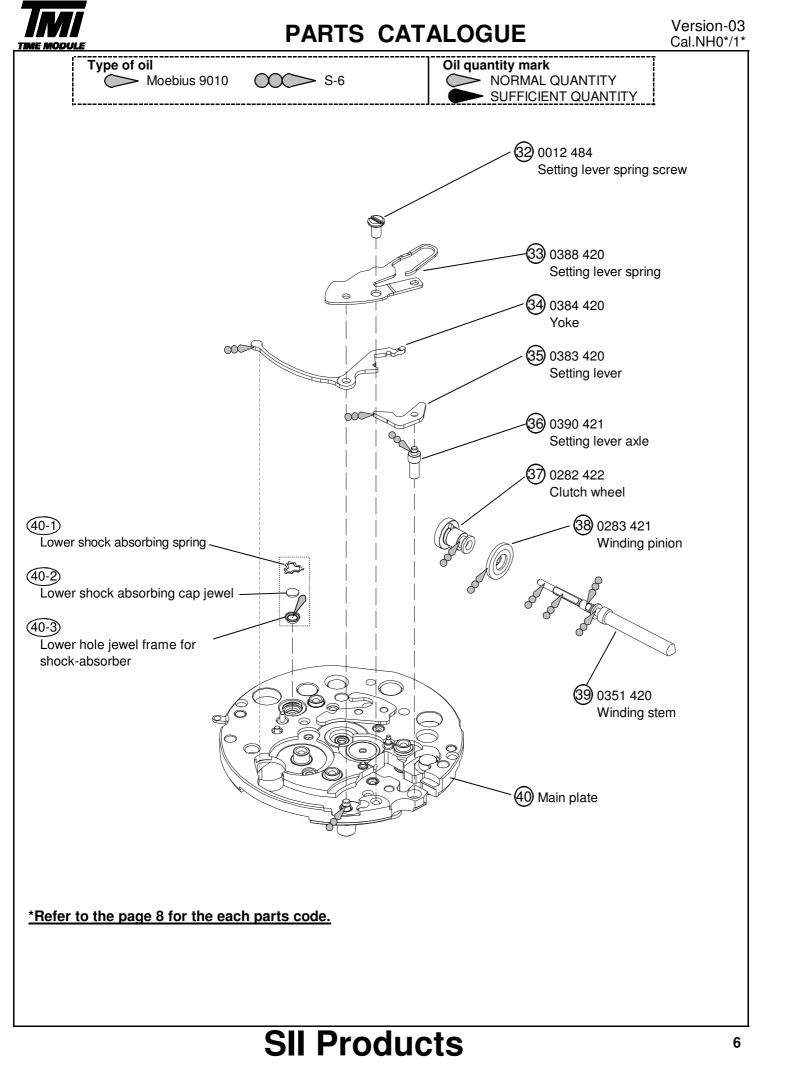
	Cal. No.				Version-					
em		NH05	NH15	NH06	NH16					
Movement										
Movement										
	Outside diameter	Ф17.5mm	Φ23.8mm	Φ17.5mm	Ф23.8mm					
Movement size	Casing diameter	Φ 17.2mm	Φ23.4mm	Φ17.2mm	Ф23.4mm					
	Total height	5.92 mm	6.01 mm	5.92 mm	6.01 mm					
Time indicati	ion	3 Hands (Hour , Minu Date Calendar	3 Hands (Hour , Minu Day & Date Calendar	te , Second)						
Basic functic	on	Manual winding Automatic winding witl Date display with quicl		Manual winding Automatic winding with ball bearing Day & Date display with quick day & date correction						
Frequency		21,600 vibrations per hour								
	Static accuracy	-35~+55 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	52 deg.								
		20 seconds								
	Measurement		* Equipment to be used : Witschi WATCH EXPERT							
Accuracy	time	* Equipment to be use								
Accuracy	time	* Equipment to be use Difference is under 90	seconds within max v	alue and min value.						
Accuracy	time Posture	* Equipment to be use Difference is under 90 * Measurement should) seconds within max v d be done within 10~60		nd up.					
Accuracy	time	 * Equipment to be use Difference is under 90 * Measurement should * Direction of 4 positio) seconds within max v d be done within 10~60 ns.	alue and min value.) minutes after fully wou						
Accuracy	time Posture difference	 * Equipment to be use Difference is under 90 * Measurement should * Direction of 4 positio (1) 12 o'clock up (2) 	e seconds within max v d be done within 10~60 ns.) 9 o'clock up (3) 6 o'd	alue and min value.						
Accuracy	time Posture difference Isochronisms	 * Equipment to be use Difference is under 90 * Measurement should * Direction of 4 positio (1) 12 o'clock up (2) -35~+35 seconds per 	e seconds within max v d be done within 10~60 ns.) 9 o'clock up (3) 6 o'd day.	alue and min value.) minutes after fully wou						
Accuracy	time Posture difference	 * Equipment to be use Difference is under 90 * Measurement should * Direction of 4 positio (1) 12 o'clock up (2) -35~+35 seconds per * Direction of position. 	e seconds within max v d be done within 10~60 ns.) 9 o'clock up (3) 6 o'd day. : Dial up	alue and min value.) minutes after fully wou clock up (4) 3 o'clock up						
	time Posture difference Isochronisms (24h-0h)	 * Equipment to be use Difference is under 90 * Measurement should * Direction of 4 positio (1) 12 o'clock up (2) -35~+35 seconds per * Direction of position. 	e seconds within max v d be done within 10~60 ns.) 9 o'clock up (3) 6 o'd day. : Dial up accuracy of 24h and 0h	alue and min value.) minutes after fully wou clock up (4) 3 o'clock up 1						
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Duration time Winding the Jewels Crown	time Posture difference Isochronisms (24h-0h) e mainspring	 * Equipment to be use Difference is under 90 * Measurement should * Direction of 4 positio (1) 12 o'clock up (2) -35~+35 seconds per * Direction of position. * Difference of static a More than 40 hours * Posture to confirmat << Movements >> • Fully wounded up by < Complete Watch > A winding machine is a Full wind up conditions • Rotary speed : 30 rp • Operating time: 60 rm 21 jewels 	e seconds within max v d be done within 10~60 ns.) 9 o'clock up (3) 6 o'd day. : Dial up accuracy of 24h and 0h . Mainspring after fully ion : Dial up turning the crown min > needed to wind up the som hinutes	alue and min value.) minutes after fully wou clock up (4) 3 o'clock up m wound up. 55 times. mainspring. Right r Manual	rotation winding					
Duration time Winding the Jewels	time Posture difference Isochronisms (24h-0h) e mainspring	 * Equipment to be use Difference is under 90 * Measurement should * Direction of 4 positio (1) 12 o'clock up (2) -35~+35 seconds per * Direction of position. * Difference of static a More than 40 hours * Posture to confirmat << Movements >> • Fully wounded up by << Complete Watch > A winding machine is a Full wind up conditions • Rotary speed : 30 rp • Operating time: 60 m 21 jewels Left re 	e seconds within max v d be done within 10~60 ns.) 9 o'clock up (3) 6 o'c day. : Dial up accuracy of 24h and 0h . Mainspring after fully ion : Dial up turning the crown min -> needed to wind up the som ninutes	alue and min value.) minutes after fully wou clock up (4) 3 o'clock up wound up. 55 times. mainspring. Right r	rotation winding					













PARTS CATALOGUE

Remarks

List of screws

Parts No.	Appearance	Parts Name	
		P-2 ③ Date indicator maintaining plate screw P-3 ⑥	3 1
0012 485		P-4 ③ Framework for automatic device screw	2
0012 405		P-4 (10) Pallet bridge screw	2
		P-5 (13) Barrel and train wheel bridge screw (B)	1
		P-5 (28) Center wheel bridge screw	1
		P-4 (7) Balance bridge screw	1
0012 484		P-5 (15) Barrel and train wheel bridge screw (A)	2
0012 464		P-5 23 Screw for locking sheet for idle wheel	2
		P-6 ③ Setting lever spring screw	1
0016 140		P-2 (1) Date indicator driving wheel screw	1
0010140		P-3 3	1
0012 488		P-4 ① Oscillating weight (without pinion) screw	1
0016 705		P-3 (5) Day jumper screw	2

*All parts code are subject to change without notice.



lemarks							
(2) Day st	ar with dia		NH06/16 on	<u>y (P-3)</u>		-	
Cal. code	Parts code	Position of crown	Position of day frame	Color of letters	Color of background	Language	
NH06A	0160 224	3H	3H	MON~FRI :Black SAT :Blue SUN :Red	Silver (Plain Metal)	English & Spanish	
NH16A	0150 172	3H	3H	MON~FRI :Black SAT :Blue SUN :Red	Silver (Plain Metal)	English & Spanish	
5 Date d	ial Cal.N	IH05/15 (P-2))				
Cal. code	Parts code	Position of crown	Position of date frame	Color of numbers	Color of background		
NH05A	0801 423	ЗH	3H	Black	Silver (Plain Metal)		
NH15A	0878 422	3H	3H	Black	Silver (Plain Metal)		
(9) Date d	ial Cal.N	IH06/15 (P-3)	· · · · · · · · · · · · · · · · · · ·			
	Parts code	Position of crown	Position of date frame	Color of numbers	Color of background		
NH06A	0801 274	ЗH	3H	Black	Silver (Plain Metal)		
NH16A	0878 420	ЗH	3H	Black	Silver (Plain Metal)		

(9) Hour Wheel ... Cal.NH05/15 (P-2) (13) Hour Wheel ... Cal.NH06/16 (P-3)

Cal. code Par		[Parts code	
NH05A 02				

(13) Cannon pinion ... Cal.NH05/15 (P-2) (17) Cannon pinion ... Cal.NH06/16 (P-3)

Cal	. code	Parts code	Cal. code	Parts code	Cal. code	Parts code	Cal. code	Parts code
NF	105A	0225 422	NH15A	0225 424	NH06A	0225 422	NH16A	0225 424

2 Oscillating weight (P-4)

	Cal. code	Parts code	Marking	Cal. code	Parts code	Marking
	NH05A	0500 436	Japan mark	NH15A	0500 437	Japan mark
		0500 446	Malaysia mark	NIIISA	0500 465	Malaysia mark
	NH06A	0500 438	Japan mark	NH16A	0500 439	Japan mark
		0500 448	Malaysia mark	NITIOA	0500 467	Malaysia mark

(20) Center second pinion (P-5)

Cal. code	Parts code	Cal. code	Parts code
NH05A	0245 425	NH15A	0245 429
NH06A	0245 425	NH16A	0245 429

(31) Center wheel and pinion (P-5)

Cal. code	Parts code	Cal. code	Parts code
NH05A	0004 405	NH15A	0224 429
NH06A	0224 425	NH16A	0224 429

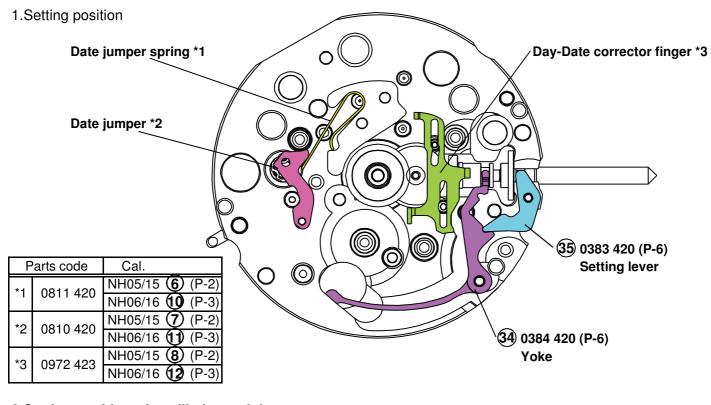
*All parts code are subject to change without notice.



• The following explanation is only for Cal.NH05/15/06/16. NH05/15 (4) (P-2) NH06/16 (8) (P-3) Date indicator maintaining plate Day-Date corrector finger is set to the hole of Date indicator maintaining plate. Date indicator maintaining plate Enlarged view (5) Pawl lever (P-4) Day-Date corrector finger Pawl lever has to be set to engage with the teeth of Reduction wheel and pinion. Reduction wheel and pinion \mathbf{O} Enlarged view Pawl lever (24) Sliding crown wheel spring (P-5) Please set Sliding crown wheel spring to the side of Sliding crown wheel. Intermediate ratchet wheel Sliding crown wheel spring (\bigcirc) Enlarged view Sliding crown wheel Rocking sheet for idle wheel (Attach the Rocking sheet for idle wheel)



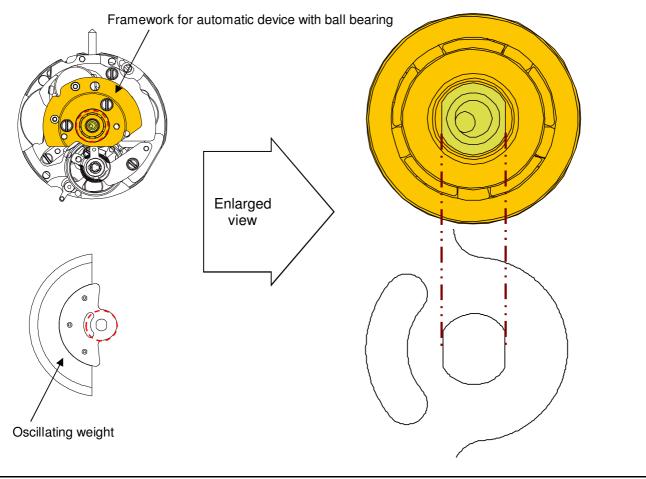
TECHNICAL GUIDE



2.Setting position of oscillating weight

 \cdot Before assembling oscillating weight.

Please set Oscillating weight according to the straight part of Framework for automatic device.





TECHNICAL GUIDE

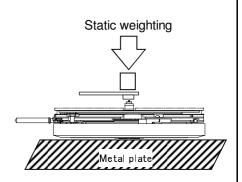
3. How to attach hands

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.



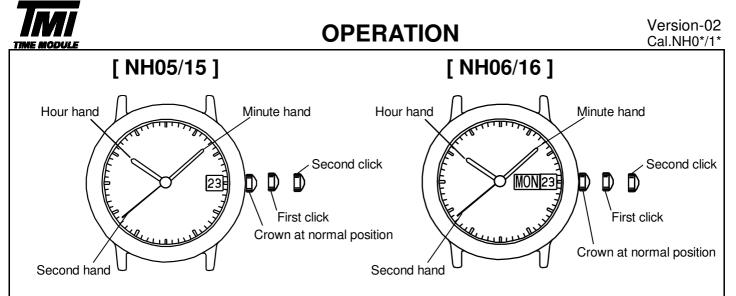
4. Accuracy measurement condition

Static Accuracy : -35~+55 seconds per day

Measurement Conditions

- 1) Measurement should be done within 10~60 minutes after fully wound up.
- 2) Lift angle : 52 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) Turn the crown to right for day setting. ... Cal.NH06 / 16 only
- 4) Push the crown back into the normal position.

3.To wind up the mainspring

- 1) Manual winding Rotate crown clockwise at normal position by min 55 times.
- 2) To wind up with winding machine.
 - Full wind up conditions
 - ·Rotary speed : 30 rpm
 - ·Operating time : 60 minutes

Note in time setting

When time setting is done with counterclockwise, date dial & day dial be reversed.

The function, there is no problem.

Please set the date & day by using the quick change function when the date & day shown was incorrect.