

TECHNICAL GUIDE & PARTS CATALOGUE Cal.NH25/26

AUTOMATIC MECHANICAL

SII Products

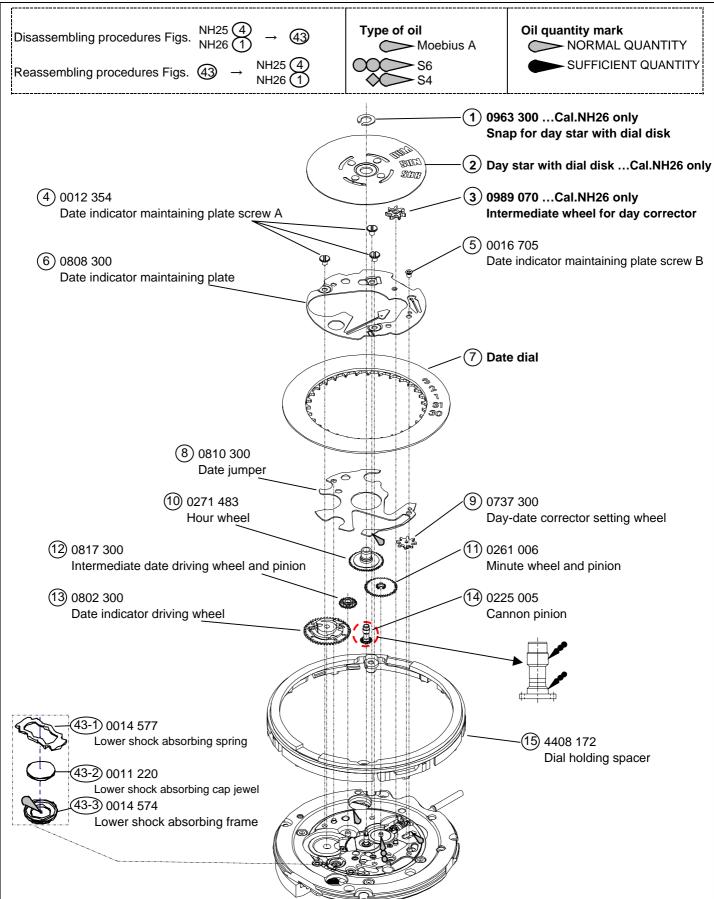


PARTS CATALOGUE / TECHNICAL GUIDE Cal.NH25/26

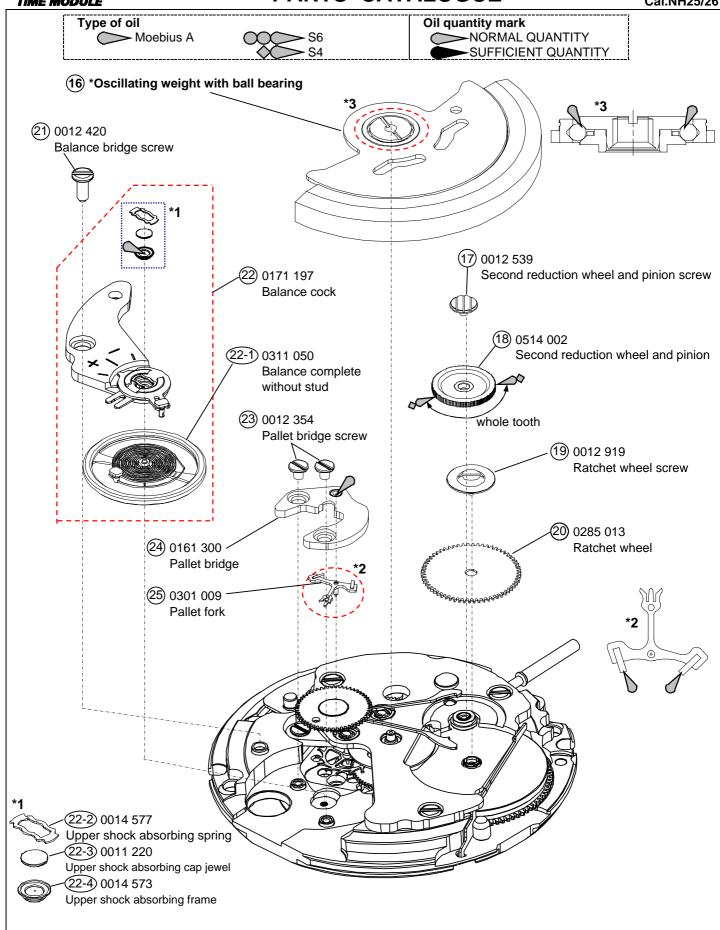
Version-01

Winding the mainspring Winding the mainspring 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 minutes Operating time: 60 minutes Left rotation NH25 NH26 Left rotation Right rotation Right rotation Normal position Free </th <th>Item</th> <th>Cal. No.</th> <th>NI</th> <th>H25</th> <th>NH:</th> <th>26</th>	Item	Cal. No.	NI	H25	NH:	26			
Movement size Total height Tot	Movement								
Casing diameter \$\textit{\$\sigma}\$ \$\text{29.255mm}\$ (with dial holding spacer) \$\text{31 Hands}\$ (Hour , Minute , Second) Day & Date Calendar Day & Date display with pall bearing Date display with pall bearing Date display with pall bearing Day & Date display with pall bearing Day & Date display with pall bearing Day & Date display with quick day & date correction Day & Date display with quick day & date correction Day & Date display with quick day & date correction Day & Date display with quick day & date correction Day & Date display with quick day & date correction Day & Date display with quick day & date correction Day & Date display with quick day & date correction Day & Date display with quick day & date correction Day & Date display with quick day & date correction Day & Date display with quick day & date correction Day & Date Calendar Day	Marrana	Outside diameter	Φ27.40mm	227.40mm					
Total height 5.32 mm Time indication 3 Hands (Hour , Minute , Second) Day & Date Calendar Day & Date Calendar Automatic winding with ball bearing Date display with quick date correction Day & Date display with quick date correction Day & Date display with quick date correction Day & Date display with quick date correction Frequency 21,600 vibrations per hour 21,600 vibrations per hour 225~+35 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 Direction of 3 positions. (1) Dial up (2) 9 o'clock (3) 6 o'clock Lift angle 53 deg. Measurement 20 seconds * Equipment to be used : Witschi WATCH EXPERT Difference is under 60 seconds within max value and min value. * Measurement house defence of seconds within 10~60 minutes after fully wound up. * Isochronisms (24h-0h) * Direction of 4 positions. (1) 12 o'clock (2) 9 o'clock (3) 6 o'clock (4) 3 o'clock * 10 o'clock (2) 9 o'clock (3) 6 o'clock (4) 3 o'clock * 10 o'clock (2) 9 o'clock (3) 6 o'clock (4) 3 o'clock * 10 o'clock (2) 9 o'clock (3) 6 o'clock (4) 3 o'clock * 10 o'clock (2) 9 o'clock (3) 6 o'clock (4) 3 o'clock * 10 o'clock (2) 9 o'clock (3) 6 o'clock (4) 3 o'clock * 10 o'clock (2) 9 o'clock (3) 6 o'clock (4) 10 o'clock * 10 o'clock (2) 9 o'clock (3) 6 o'clock (4) 10 o'clock * 10 o'clock (2) 9 o'clock (3) 6 o'clock (4) 10 o'clock * 10 o'clock (2) 9 o'clock (3) 6 o'clock (4) 10 o'clock * 10 o'clock (4) 10 o'clock (5) 10 o'clock (6) 10 o'clock (7) 10 o'clock * 10 o'clock (7) 10 o'clock (7) 10 o'clock (7) 10 o'clock * 10 o'clock (7) 10 o'clock (7) 10 o'clock (7) 10 o'clock * 10 o'clock (7) 10 o'clock (7) 10 o'clock (7) 10 o'clock * 10 o'clock (7) 10 o'clock (7) 10 o'clock * 10 o'clock (7) 10 o'clock (7) 10 o'clock * 10 o'clock		Casing diameter	Φ 29.255mm (with dia	I holding spacer)					
Basic function Basic function Basic function Automatic winding with ball bearing Date display with quick date correction 21,600 vibrations per hour -25~+35 seconds per day Measurement position Lift angle Sa dag. Measurement position Lift angle So seconds Equipment to be used: Witschi WATCH EXPERT Difference is under 60 seconds within nax value and min value. Posture difference (24h-0h) Duration time Duration time Winding the mainspring Winding the mainspring Winding machine is needed to wind up the mainspring. Free Posture to Complete Watch > A winding machine is needed to wind up the mainspring. Free Pree Free Free Free Free Crown position Free Pree Date setting Day & Date Calendar Automatic winding with ball bearing Automatic winding with ball bearing Day & Date Calendar Automatic winding with ball bearing Automatic winding with ball bearing Day & Date display with quick date correction Automatic winding with ball bearing Day & Date display with quick date correction 21,400 vibrations procedures 22,5~+35 seconds per day Measurement should be done within 10~60 minutes after fully wound up. 20 seconds Equipment to be used: Witschi WATCH EXPERT Difference is under 60 seconds within max value and min value. * Direction of 4 positions. (1) 12 o'clock (2) 9 o'clock (3) 6 o'clock (4) 3 o'clock * Direction of 4 positions. (1) 12 o'clock (2) 9 o'clock (3) 6 o'clock (4) 3 o'clock * Direction of 4 positions. (1) 12 o'clock (2) 9 o'clock (3) 6 o'clock (4) 3 o'clock * Direction of 4 positions. (1) 12 o'clock (2) 9 o'clock (3) 6 o'clock (4) 3 o'clock * Direction of 4 positions. (1) 12 o'clock (2) 9 o'clock (4) 3 o'clock * Direction of 4 positions. (1) 12 o'clock (2) 9 o'clock (3) 6 o'clock (4) 3 o'clock * Direction of 4 positions. (1) 12 o'clock (2) 9 o'clock (4) 6 o'clock (4) 3 o'clock * Direction of 4 positions. (1) 12 o'clock (2) 9 o'clock (4) 3 o'clock (20 seconds * Difference o'clock (2) 9 o'clock (4) 3 o'clock * Direction of 4 positions. (1) 12 o'clock (2) 9 o'clock (SIZE	Total height	5.32 mm	5.32 mm					
Basic function Date display with quick date correction Day & Date display with quick date correction	Time indica	tion	Date Calendar	·	Day & Date Calendar	•			
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 Lift angle 53 deg. Measurement time *Equipment to be used: Witschi WATCH EXPERT Difference is under 60 seconds within max value and min value. *Neasurement should be done within 10~60 minutes after fully wound up. *Direction of 4 positions. (1) 12 o'clock (2) 9 o'clock (3) 6 o'clock Sochronisms (24h-0h) Sochronisms (24h-0h) Duration time Duration time There are no manual winding function for Cal. NH25/26. The following procedures are recommended for winding up the mainspring of Cal.NH2 << Movements >> The mainspring would be 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	Basic functi	on	Date display with quick Day & Date display with quick			quick			
Static accuracy	Frequency		21,600 vibrations per	hour					
Accuracy Distriction of 3 positions City Dial up (2) 9 0 clock (3) 8 0 clock		Static accuracy	Measurement should be done within 10~60 minutes after fully wound up.						
Accuracy Measurement time Posture difference Measurement tshould be done within max value and min value. * Measurement should be done within 10~60 minutes after fully wound up. * Direction of 4 positions. (1) 12 o'clock (2) 9 o'clock (3) 6 o'clock (4) 3 o'clock Isochronisms (24h-0h) Duration time More than 41 hours Mainspring after fully wound up. * Posture to confirmation : Dial up There are no manual winding function for Cal. NH25/26. The following procedures are recommended for winding up the mainspring of Cal.NH2 < Movements >> The mainspring would be 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 Crown position Normal position Free			Direction of 3 positions. (1) Dial up (2) 9 o'clock (3) 6 o'clock						
# Equipment to be used: Witschi WATCH EXPERT Difference is under 60 seconds within max value and min value.		Lift angle	53 deg.						
# Measurement should be done within 10~60 minutes after fully wound up. # Direction of 4 positions. # Direction of 4 positions. # Direction of 4 positions. # Direction of 9 o'clock (3) 6 o'clock (4) 3 o'clock # Direction of position.: Dial up # Difference of static accuracy of 24h and 0h # Posture to confirmation: Dial up # Posture to confirmation: Di	Accuracy		* Equipment to be used : Witschi WATCH EXPERT						
Isochronisms (24h-0h) -20~+40 seconds per day.			 * Measurement should be done within 10~60 minutes after fully wound up. * Direction of 4 positions. 						
Duration time * Posture to confirmation : Dial up There are no manual winding function for Cal. NH25/26. The following procedures are recommended for winding up the mainspring of Cal.NH2 << Movements >> The mainspring would be 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 21 jewels NH25 NH26 Left rotation Right rotation Normal position Free Free Free Free Free Free Free Fre			-20~+40 seconds per day. * Direction of position. : Dial up						
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Crown position	Winding the mainspring		The following procedures are recommended for winding up the mainspring of Cal.NH25/26. << Movements >> The mainspring would be 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						
Crown position	Jewels								
position Normal position Free Free Free Free Free Free Free Date setting Day setting Date setting									
First click Free Date setting Day setting Date setting		Name of the state of				Right rotation			
First click Free Date setting Day setting Date setting									
Second click Hand setting Hand setting	-			•					

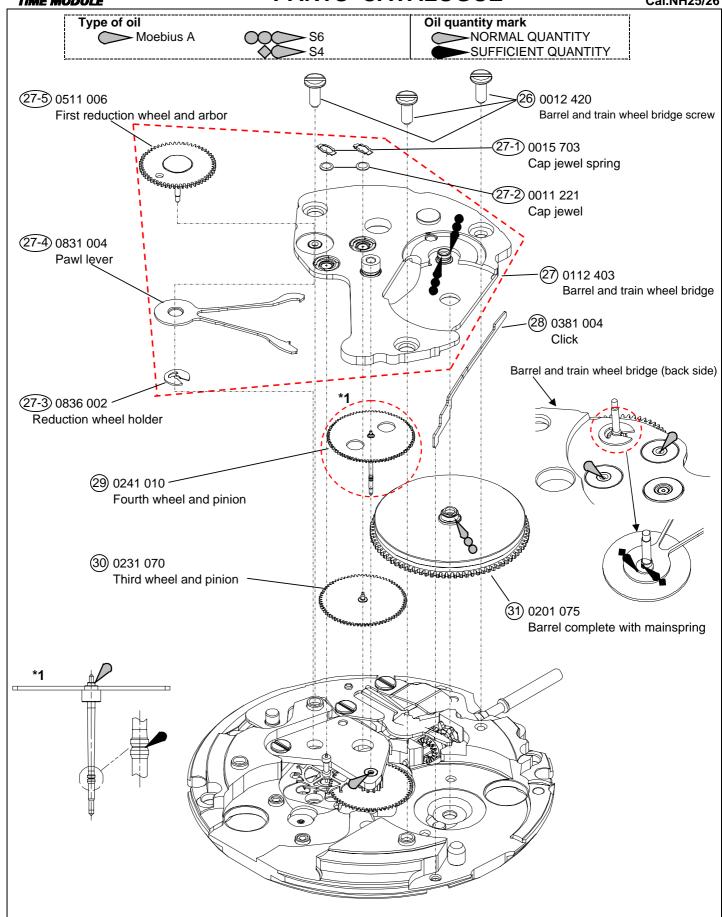




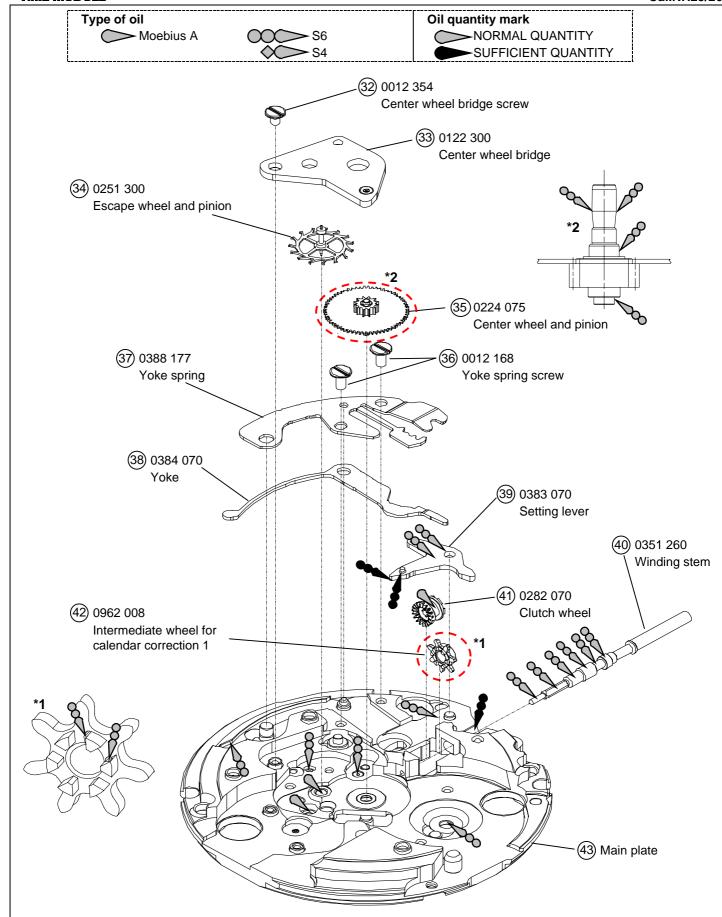












SII Products





Remarks

2 Day star with dial disk ... Cal.NH26 only

Parts code	Position of crown	Position of day frame	Color of letters	Color of background	Language
0160 242	ЗН	ЗН	MON~FRI : Black SAT :Blue SUN :Red	White	English & Spanish

7 Date dial

Ι.	Date diai						
	Cal code	Parts code	Position of	Position of	Color of numbers	Color of	
	Cal. Code		crown	date frame	Color of Hullibers	background	
	NH25	0878 270	3H	3H	Black	White	
INITZ	INI IZS	0878 274	ЗН	6H	Black	White	
	NH26	0878 280	ЗН	3H	Black	White	

16 Oscillating weight with ball bearing

Cal. code	Parts code	Marking	Cal. code	Parts code	Marking
NH25	0509 242	Japan mark	NH26	0509 245	Japan mark
	0509 243	Malaysia mark	NHZO	0509 246	Malaysia mark

List of screws

<u> </u>					
Parts No	Name	Parts No	Name	Parts No	Name
0012 919 0012 539	Second reduction (17) wheel and pinion screw	0012 354	Center wheel bridge screw Pallet bridge screw (x2) Date indicator maintaining plate screw (A) (x3)	0012 420	Barrel and train (26) wheel bridge screw (x3) Balance bridge screw
0012 168	36 Yoke spring screw (×2)	0016 705	Date indictor (5) maintaining plate screw (B)		

^{*}All parts code are subject to change without notice.





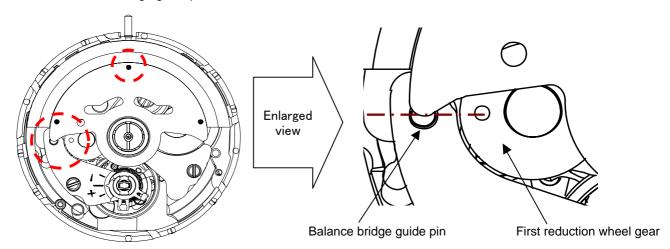
•The following explanation is only for Cal.NH25/26.

1.Setting position of oscillating weight

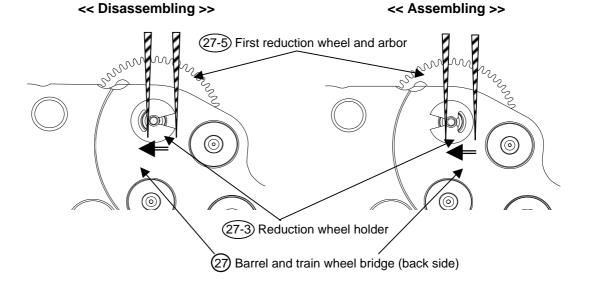
•Before assembling oscillating weight.

Match the center of the oscillating weight with winding stem.

Set the hole of first reduction wheel gear on the imaginary line toward the balance bridge guide pin.



2.Disassembling / assembling of the First reduction wheel





TECHNICAL GUIDE

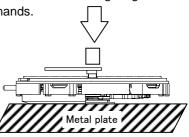
3. How to attach hands

Place the movement directly on a flat metal plate or the 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 movement receives a strong shock, it may damage the movement.



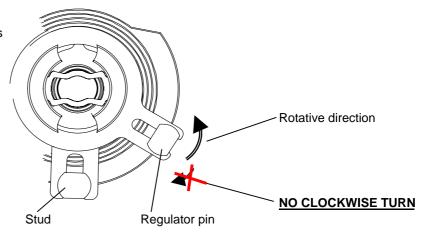
Static weighting

4. Rotative direction of regulator pin

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

⟨Note⟩

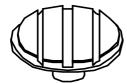
Please do the following when a movement's accuracy is out of the guaranteed range, or after disassembly.



5. Second reduction wheel and pinion screw

•The direction to tightens a screw : Counterclockwise

•The direction to loosens a screw : Clockwise



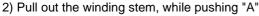
17 Second reduction wheel and pinion screw

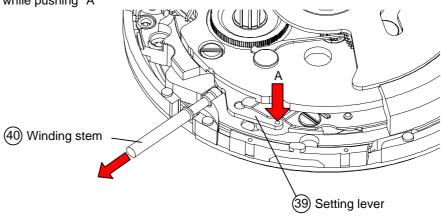




6.To remove the winding stem

1) Set the winding stem to normal position.





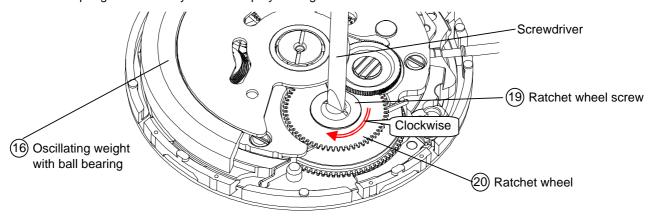
7.To wind up the mainspring

Cal. NH25/26 have no manual winding function.

The following procedures are recommended for winding up the mainspring for Cal. NH25/26.

<<Movement>>

The mainspring would be fully wounded up by turning the ratchet wheel screw 8 times clockwise.



<<Complete watch>>

A winding machine is needed to wind up the mainspring.

Full wind up conditions
•Rotary speed : 30 rpm

Operating time : 60 minutes

8. Accuracy measurement condition

Static Accuracy: -25~+35 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 positions: (1) Dial up (2) 9 o'clock up (3) 6 o'clock up

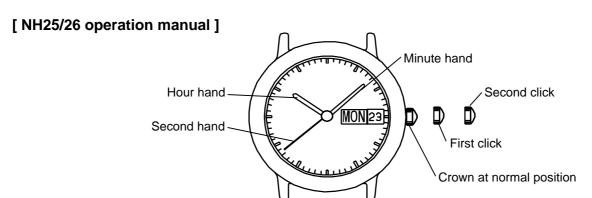
4) Minimum measurement time: 20 seconds

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 in to the normal position.

2.Day and date setting

- 1) Pull out the crown to the first click position.
- 2) Turn the crown to right for date setting.
- 3) Turn the crown to left for day setting. ... Cal. NH26 only.
 - * Do not set the calendar between 9:00 P.M. and 4:00 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.
- 4) Push the crown back in to the normal position.