TECHNICAL GUIDE
&
PARTS CATALOGUE

Cal.NH3 Series
(NH35A/36A/37A/38A/39A)

AUTOMATIC MECHANICAL
## SPECIFICATION

**Version-01**

**Cal.NH3 Series (NH35A/36A/37A/38A/39A)**

### Movement

<table>
<thead>
<tr>
<th></th>
<th>NH35A</th>
<th>NH36A</th>
<th>NH37A</th>
<th>NH38A</th>
<th>NH39A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outside diameter</td>
<td>Ф27.40 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Casing diameter</td>
<td>Ф29.36 mm (with dial holding spacer)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total height</td>
<td>5.32 mm</td>
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### Time indication

<table>
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<tr>
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<th>NH35A</th>
<th>NH36A</th>
<th>NH37A</th>
<th>NH38A</th>
<th>NH39A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date calendar</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Day calendar</td>
<td>-</td>
<td>-</td>
<td>O</td>
<td>-</td>
<td>O</td>
</tr>
<tr>
<td>24 hour indicator</td>
<td>-</td>
<td>-</td>
<td>O</td>
<td>-</td>
<td>O</td>
</tr>
<tr>
<td>3 Hands (hour, minute, second)</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
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### Basic function

<table>
<thead>
<tr>
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<th>NH35A</th>
<th>NH36A</th>
<th>NH37A</th>
<th>NH38A</th>
<th>NH39A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manual winding</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Automatic winding with ball bearing</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
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<tr>
<td>Stop-second device</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Quick date correction</td>
<td>O</td>
<td>-</td>
<td>O</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Quick day-date correction</td>
<td>-</td>
<td>O</td>
<td>-</td>
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### Frequency

- 21,600 vibrations per hour

### Accuracy

<table>
<thead>
<tr>
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<th>NH35A</th>
<th>NH36A</th>
<th>NH37A</th>
<th>NH38A</th>
<th>NH39A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Static accuracy</td>
<td>20 ~ 40 seconds per day</td>
<td>20 ~ 40 seconds per day</td>
<td>20 ~ 40 seconds per day</td>
<td>20 ~ 40 seconds per day</td>
<td>20 ~ 40 seconds per day</td>
</tr>
<tr>
<td>Measurement position</td>
<td>Direction of 3 positions. (1) Dial up (2) 9 o'clock up (3) 6 o'clock up</td>
<td>Direction of 3 positions. (1) Dial up (2) 9 o'clock up (3) 6 o'clock up</td>
<td>Direction of 3 positions. (1) Dial up (2) 9 o'clock up (3) 6 o'clock up</td>
<td>Direction of 3 positions. (1) Dial up (2) 9 o'clock up (3) 6 o'clock up</td>
<td>Direction of 3 positions. (1) Dial up (2) 9 o'clock up (3) 6 o'clock up</td>
</tr>
<tr>
<td>Lift angle</td>
<td>53 deg.</td>
<td>53 deg.</td>
<td>53 deg.</td>
<td>53 deg.</td>
<td>53 deg.</td>
</tr>
<tr>
<td>Measurement time</td>
<td>20 seconds</td>
<td>20 seconds</td>
<td>20 seconds</td>
<td>20 seconds</td>
<td>20 seconds</td>
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</tbody>
</table>

### Isochronisms (24h-0h)

- 20 ~ 40 seconds per day
- Direction of position : Dial up
- Difference of static accuracy of 24 h and 0 h

### Duration time

- More than 41 hours (Mainspring after fully wound up)
- Posture to confirmation : Dial up

### Winding the mainspring

- << Movements >>
  - Fully wound up by turning the crown minimum 55 times.
  - Fully wound 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 (Reference information)
    - (1) Rotary speed : 30 rpm (2) Operating time : 60 minutes

### Crown position

<table>
<thead>
<tr>
<th>Crown position</th>
<th>Normal position</th>
<th>First click</th>
<th>Second click</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Counterclockwise</td>
<td>Date setting</td>
<td>Time setting</td>
</tr>
<tr>
<td></td>
<td>Clockwise</td>
<td>Free</td>
<td>Free</td>
</tr>
<tr>
<td></td>
<td>Manual winding</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*All measurements are made without the calendar in function.*
<<NH35A/36A/37A>>

1. 0963 300 (Cal.NH36A only)
   Snap for day star with dial disk

2. *Day star with dial disk
   (Cal.NH36A only)

3. 0989 070 (Cal.NH36A only)
   Intermediate wheel for day corrector

4. 0012 354
   Date indicator maintaining plate screw

4. 0012 354
   Date indicator maintaining plate screw

5. 0808 183
   Date indicator maintaining plate

6. *Date dial

7. 0810 333
   Date jumper

*Refer to page 8 for each parts code
**PARTS CATALOGUE**

Version-01  
Cal.NH3 Series  
(NH35A/36A/37A/38A/39A)

### Disassembling procedures Figs.

① → ⑮

### Reassembling procedures Figs.

⑮ → ①

### Type of oil

- Moebius 9010
- S-6
- S-4

### Oil quantity mark

- NORMAL QUANTITY
- SUFFICIENT QUANTITY

<<NH35A/36A/37A>>

1. **Hour wheel**  
Refer to page 9 for each parts code

2. **Minute wheel and pinion**  
   0261 190

3. **Cannon pinion**  
   Refer to page 9 for each parts code

4. **Day-date corrector setting transmission wheel wheel E**  
   0962 025

5. **Guard for day-date corrector setting transmission wheel screw**  
   0012 485

6. **Guard for day-date corrector setting transmission wheel B**  
   0836 183

7. **Day-date corrector setting transmission wheel C**  
   0962 185

8. **Day-date corrector wheel**  
   0962 023

9. **Day-date corrector wheel B**  
   0737 183

10. **Dial holding spacer**  
    4408 172

11. **Lower shock absorbing spring**  
    ②

12. **Lower shock absorbing cap jewel**  
    ③

13. **Lower hole jewel frame for shock-absorber**  
    ①
<<NH38A/39A>>

1. 0012 354
   Hour wheel guard screw

2. 0376 184
   Hour wheel guard

3. 0157 184 (Cal.NH39A only)
   24-hour wheel

4. 0261 190
   Minute wheel and pinion

5. 0817 300 (Cal.NH39A only)
   Intermediate 24-hour wheel
   and pinion

6. 4408 172
   Dial holding spacer

Refer to page 9 for each parts code

Refer to page 8 for each parts code

Lower shock absorbing spring
Lower shock absorbing cap jewel
Lower hole jewel frame for shock-absorber
Oscillating weight with ball bearing
Refer to page 8 for each parts code

0012 100
Balance bridge screw

0171 353
Balance cock

0191 183
Automatic train bridge

0514 183
Second reduction wheel and pinion

0012 919
Ratchet wheel screw

0285 051
Ratchet wheel

0012 354
Pallet bridge screw

0161 300
Pallet bridge

0301 009
Pallet fork

Disassembling procedures Figs.
Reassembling procedures Figs.

Type of oil
Moebius 9010
S-6
S-4

Oil quantity mark
NORMAL QUANTITY
SUFFICIENT QUANTITY

Moebius 9010
NORMAL QUANTITY
S-6
SUFFICIENT QUANTITY
S-4

Disassembling procedures Figs.
Reassembling procedures Figs.

Lower shock absorbing spring

Lower shock absorbing cap jewel

Lower hole jewel frame for shock-absorber
0511 010
First reduction wheel
Refer to page 10 for oiling spot

0831 183
Pawl lever

0836 002
Reduction wheel holder

Fourth wheel and pinion
Refer to page 8 for each parts code

0012 100
Barrel and train wheel bridge screw

35-1
Cap jewelled spring

35-2
Cap jewel

0363 184
Ratchet sliding wheel spring

0114 183
Barrel and train wheel bridge with hole jewel frame
Refer to page 10 for oiling spot

0436 166
Lower plate for barrel and train wheel bridge

0012 354
Lower plate for barrel and train wheel bridge screw

0231 070
Third wheel and pinion

0381 004
Click

0201 083
Barrel complete with main spring
**PARTS CATALOGUE**

**Cal.NH3 Series (NH35A/36A/37A/38A/39A)**

<table>
<thead>
<tr>
<th>Part Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0012 354</td>
<td>Center wheel bridge screw</td>
</tr>
<tr>
<td>0122 302</td>
<td>Center wheel bridge</td>
</tr>
<tr>
<td>0251 300</td>
<td>Escape wheel and pinion</td>
</tr>
<tr>
<td>0012 168</td>
<td>Yoke spring screw</td>
</tr>
<tr>
<td>0388 177</td>
<td>Yoke spring</td>
</tr>
<tr>
<td>0601 183</td>
<td>Balance stop lever</td>
</tr>
<tr>
<td>0282 183</td>
<td>Clutch wheel</td>
</tr>
<tr>
<td>0283 020</td>
<td>Winding pinion</td>
</tr>
<tr>
<td>0962 183</td>
<td>Day-Date corrector setting transmission wheel A</td>
</tr>
<tr>
<td>0351 200</td>
<td>Winding stem</td>
</tr>
</tbody>
</table>

*Refer to page 8 for each parts code*

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**Disassembling procedures Figs.**

① → ⑧

**Reassembling procedures Figs.**

⑧ → ①

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**Type of oil**

- Moebius 9010

**Oil quantity mark**

- NORMAL QUANTITY
- SUFFICIENT QUANTITY

---

**Disassembling procedures Figs.**

- Type of oil
- Oil quantity mark
- Reassembling procedures Figs.

---

**Normative QUANTITY**

- S-6

**Sufficient QUANTITY**

- S-4

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**Moebius 9010**

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**Reassembling procedures Figs.**

- Type of oil
- Oil quantity mark
- Disassembling procedures Figs.
### Day star with dial disk (Cal.NH36A only : Page 2)

<table>
<thead>
<tr>
<th>Parts code</th>
<th>Position of crown</th>
<th>Position of day frame</th>
<th>Color of letters</th>
<th>Color of background</th>
<th>Language</th>
</tr>
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<tbody>
<tr>
<td>0160 495</td>
<td>3H</td>
<td>3H</td>
<td>MON～FRI : Black</td>
<td>White</td>
<td>English &amp; Spanish</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>SAT : Blue</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>SUN : Red</td>
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### Date dial (Page 2)

<table>
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<th>Position of day frame</th>
<th>Color of letters</th>
<th>Color of background</th>
</tr>
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<tbody>
<tr>
<td>NH35</td>
<td>0878 208</td>
<td>3H</td>
<td>3H</td>
<td>Black</td>
<td>White</td>
</tr>
<tr>
<td>NH37</td>
<td>0878 206</td>
<td>3H</td>
<td>3H</td>
<td>Black</td>
<td>White</td>
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### Cannon pinion (Page 3)

<table>
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<th>Cal.</th>
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<tbody>
<tr>
<td>NH35</td>
<td>0225 420</td>
<td>NH37</td>
<td>0225 426</td>
</tr>
<tr>
<td>NH36</td>
<td>0225 420</td>
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### Oscillating weight with ball bearing (Page 5)

<table>
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<th>Marking</th>
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<tr>
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<td>0509 467</td>
<td>Japan mark</td>
</tr>
<tr>
<td></td>
<td>0509 468</td>
<td>Malaysia mark</td>
</tr>
<tr>
<td>NH36</td>
<td>0509 463</td>
<td>Japan mark</td>
</tr>
<tr>
<td></td>
<td>0509 464</td>
<td>Malaysia mark</td>
</tr>
<tr>
<td>NH37</td>
<td>0509 470</td>
<td>Japan mark</td>
</tr>
<tr>
<td></td>
<td>0509 471</td>
<td>Malaysia mark</td>
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### Balance complete with stud (Page 5)

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<td>0310 183</td>
<td>NH38</td>
<td>0310 184</td>
</tr>
<tr>
<td>NH36</td>
<td>0310 183</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NH37</td>
<td>0310 183</td>
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</table>

### Fourth wheel and pinion (Page 6)

<table>
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<tbody>
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<td>0241 010</td>
<td>NH37</td>
<td>0144 185</td>
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<td>NH36</td>
<td>0241 010</td>
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<tr>
<td>NH38</td>
<td>0241 010</td>
<td></td>
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### Center wheel and pinion (Page 7)

<table>
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<th>Cal.</th>
<th>Parts code</th>
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</thead>
<tbody>
<tr>
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<td>0224 203</td>
<td>NH37</td>
<td>0224 205</td>
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<tr>
<td>NH36</td>
<td>0224 203</td>
<td></td>
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</tr>
<tr>
<td>NH38</td>
<td>0224 203</td>
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### Yoke (Page 7)

<table>
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<tbody>
<tr>
<td>NH35</td>
<td>0384 183</td>
<td>NH37</td>
<td>0384 184</td>
</tr>
<tr>
<td>NH36</td>
<td>0384 183</td>
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<tr>
<td>NH38</td>
<td>0384 183</td>
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### Setting lever (Page 7)

<table>
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<th>Parts code</th>
</tr>
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<tbody>
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<td>0383 185</td>
<td>NH37</td>
<td>0383 186</td>
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<td>NH36</td>
<td>0383 185</td>
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</tr>
<tr>
<td>NH38</td>
<td>0383 185</td>
<td></td>
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</table>
### Remarks : Different parts for each CAL.

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<th>NH35</th>
<th>NH36</th>
<th>NH37</th>
<th>NH38</th>
<th>NH39</th>
<th>Parts code</th>
<th>Parts name</th>
<th>Parts form</th>
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<td>14</td>
<td></td>
<td>O</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0273 182</td>
<td>Hour wheel</td>
<td>0273 182 &amp; 0273 184 (Height difference)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-</td>
<td>-</td>
<td>O</td>
<td>-</td>
<td>-</td>
<td>0273 183</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>3</td>
<td></td>
<td></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>O</td>
<td>0273 183</td>
<td>Hour wheel</td>
<td>0273 183 &amp; 0273 185 (Height difference)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0273 185</td>
<td></td>
<td></td>
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<tr>
<td>3</td>
<td>16</td>
<td></td>
<td>O</td>
<td>O</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0817 300</td>
<td>Intermediate date driving wheel and pinion</td>
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</tr>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>O</td>
<td></td>
<td>Intermediate 24hour wheel and pinion</td>
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<tr>
<td>3</td>
<td>17</td>
<td></td>
<td>O</td>
<td>O</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0802 183</td>
<td>Date indicator driving wheel</td>
<td></td>
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<td>24hour wheel</td>
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### List of screw

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<th>Page</th>
<th>No</th>
<th>Parts code</th>
<th>Parts name</th>
<th>Parts form</th>
<th>Page</th>
<th>No</th>
<th>Parts code</th>
<th>Parts name</th>
<th>Parts form</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>4</td>
<td>0012 354</td>
<td>Date indicator maintaining plate screw (x4)</td>
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<td>3</td>
<td>9</td>
<td>0012 485</td>
<td>Guard for day-date corrector setting transmission wheel screw (x2)</td>
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<tr>
<td>4</td>
<td>1</td>
<td></td>
<td>Hour wheel guard screw (x4)</td>
<td></td>
<td>5</td>
<td>24</td>
<td>0012 919</td>
<td>Ratchet wheel screw</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>24</td>
<td>0012 354</td>
<td>Automatic train bridge screw (x2)</td>
<td></td>
<td>5</td>
<td>29</td>
<td>0012 100</td>
<td>Balance bridge screw</td>
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</tr>
<tr>
<td></td>
<td>51</td>
<td></td>
<td>Pallet bridge screw (x2)</td>
<td></td>
<td>6</td>
<td>46</td>
<td></td>
<td>Barrel and train wheel bridge screw (x3)</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>41</td>
<td></td>
<td>Lower plate for barrel and train wheel bridge screw</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>46</td>
<td></td>
<td>Center wheel bridge screw</td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>50</td>
<td>0012 168</td>
<td>Yoke spring screw (x2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
1. Oiling spot

Barrel and train wheel bridge with hole jewel frame

<table>
<thead>
<tr>
<th>Type of oil</th>
<th>Oil quantity mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-6</td>
<td>NORMAL QUANTITY</td>
</tr>
<tr>
<td>S-4</td>
<td>SUFFICIENT QUANTITY</td>
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<td>Moebius 9010</td>
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Note

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

*4 After oiling, set first reduction wheel & pawl lever & reduction wheel holder.
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.

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

<< Disassembling >>

First reduction wheel

Reduction wheel holder

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

<< Assembling >>

5. Disassembling / assembling of the Ratchet sliding wheel spring

<< Disassembling >>

Ratchet sliding wheel spring

Barrel and train wheel bridge with hole jewel frame

<< Assembling >>

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

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

Note:
- Regulator (Time adjustment)
- Stud support (Beat error adjustment)
- Regulator pin (Gap adjustment of balance spring and regulator pin)

Anticlockwise rotation
No clockwise rotation
7. To wind up the mainspring

<<Movement>>
- Manual winding (Fully wound up by turning the crown minimum 55 times)
- Screwdriver winding (Fully wound up by turning the ratchet wheel screw 8 times)

8. How to install hands

Place the movement directly on a flat metal plate or something similar to install the hands.
We recommend the use of movement holder to install hands.
For hands attachment, please use a special equipment.
When the movement receives a strong shock, it may be damaged.
*Install the 24-hour hand (Cal.NH37A/39A)
Pull out the crown to the second click position and rotation it clockwise to install 24-hour hand.

9. Accuracy measurement condition

Static Accuracy : - 20 ~ + 40 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.

10. About the handling (Cal.NH38A/39A)

⚠️ Part is processed as a mirror surface. It is damaged when touching with tweezers.
Please be careful about the handling.
1. How to set the time
   1) Pull out the crown to the second click position. (Cal.NH35A/36A/37A)
      Pull out the crown to the first click position. (Cal.NH38A/39A)
   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. How to set the Date (Cal.NH35A/36A/37A)
   1) Pull out the crown to the first click position.
   2) Turn the crown to left for date setting.
   3) Turn the crown to right for day setting. (Cal.NH36A only)
      *Do not set the date between 9:00 P.M. and 4:00 A.M. as this will cause a malfunction.
   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)
      Fully wound up by turning the crown minimum 55 times. It will start to move naturally
      after shaking slightly.
   b) To wind up with winding machine.
      Full wind up conditions (Reference information)
      • Rotary speed : 30 rpm
      • Operating time : 60 minutes