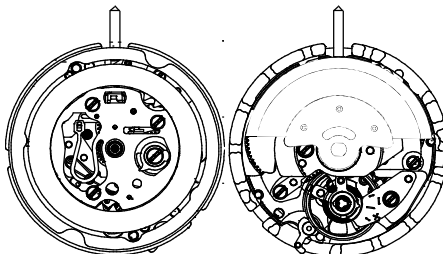
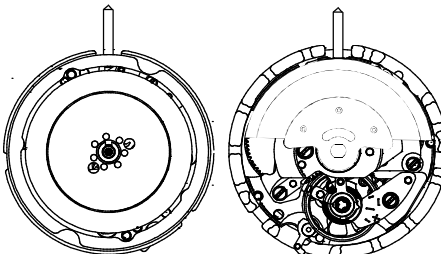


**TECHNICAL GUIDE
&
PARTS CATALOGUE**

**CaI.NH0 Series
(NH05B/06B)**

AUTOMATIC MECHANICAL

| Cal. No. | | NH05B | NH06B |
|------------------------|-----------------------|---|---|
| Item | | | |
| Movement | |  |  |
| Movement size | Outside diameter | Φ17.5 mm Φ19.8 mm (with Dial support) | Φ17.5 mm Φ19.8 mm (with Dial support) |
| | Casing diameter | Φ17.2 mm | Φ17.2 mm |
| | Total height | 5.92 mm (with Dial support) | 5.92 mm (with Dial support) |
| Time indication | | 3 Hands (Hour , Minute , Second) Date Calendar | 3 Hands (Hour , Minute , Second) Day & Date Calendar |
| Basic function | | Manual winding Automatic winding with ball bearing Quick date correction | Manual winding Automatic winding with ball bearing Quick day-date correction |
| Frequency | | 21,600 vibrations per hour | |
| Accuracy | 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. | |
| | Measurement time | 20 seconds * Equipment to be used : Witschi WATCH EXPERT | |
| | Posture difference | Difference is under 90 seconds within maximum value and minimum value. * 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) | - 35 ~ +35 seconds per day. * Direction of position. : Dial up * Difference of static accuracy of 24 h and 0 h | |
| Duration time | | More than 40 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. << 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 | |
| Jewels | | 21 jewels | |
| Crown position | | Counterclockwise | Clockwise |
| | Normal position | Free | Manual winding |
| | First click | Date setting | NH05B : Free NH06B : Day setting |
| | Second click | Time setting | Time setting |

Disassembling procedures Figs.
① → ⑥②
Reassembling procedures Figs.
⑥② → ①

Type of oil



Moebius 9010



A9a (S-6)

Oil quantity mark

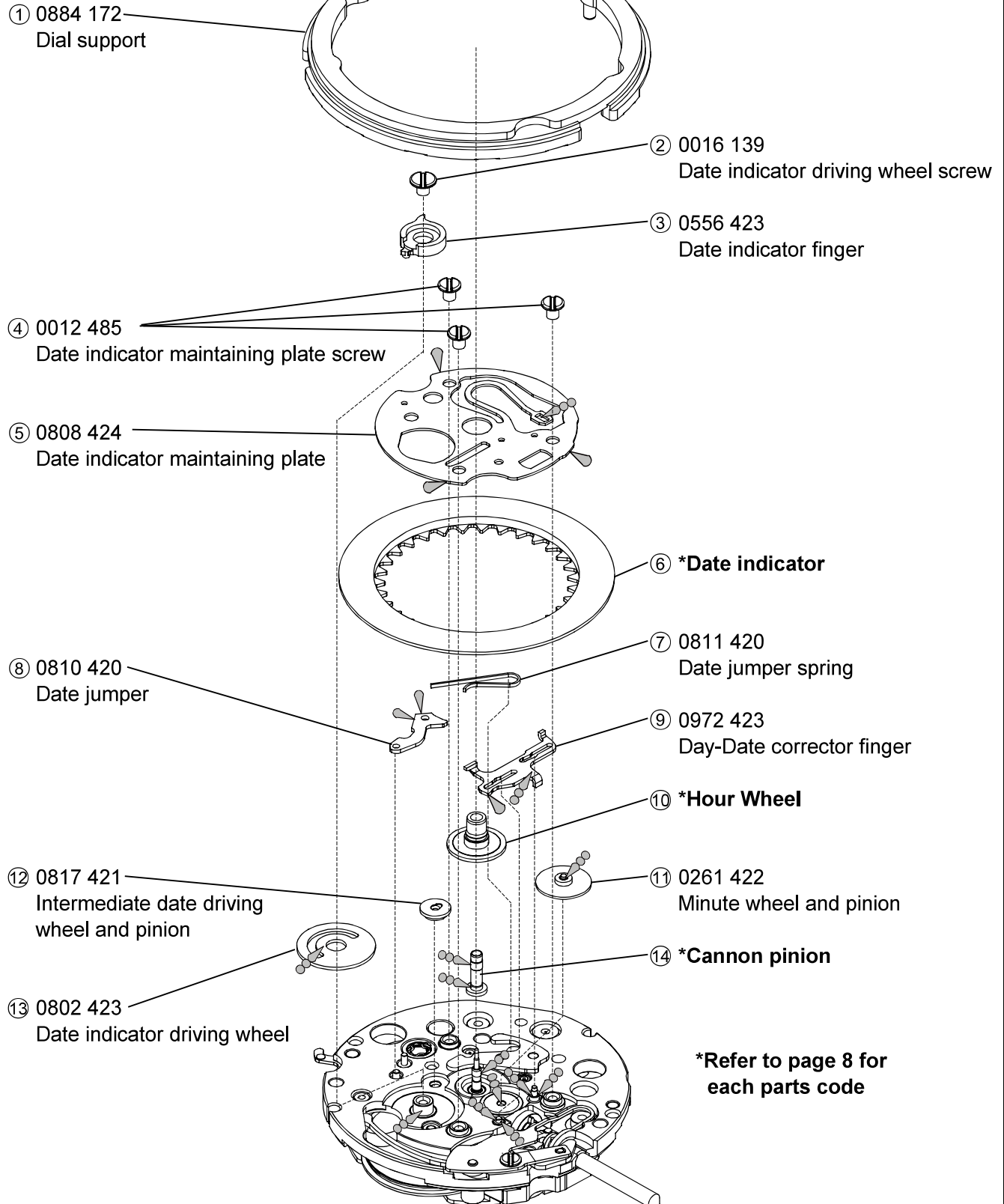


Normal quantity



Sufficient quantity

<<NH05B>>



Disassembling procedures Figs.
① → ⑥⑩
Reassembling procedures Figs.
⑥⑩ → ①

Type of oil



Moebius 9010



A9a (S-6)

Oil quantity mark

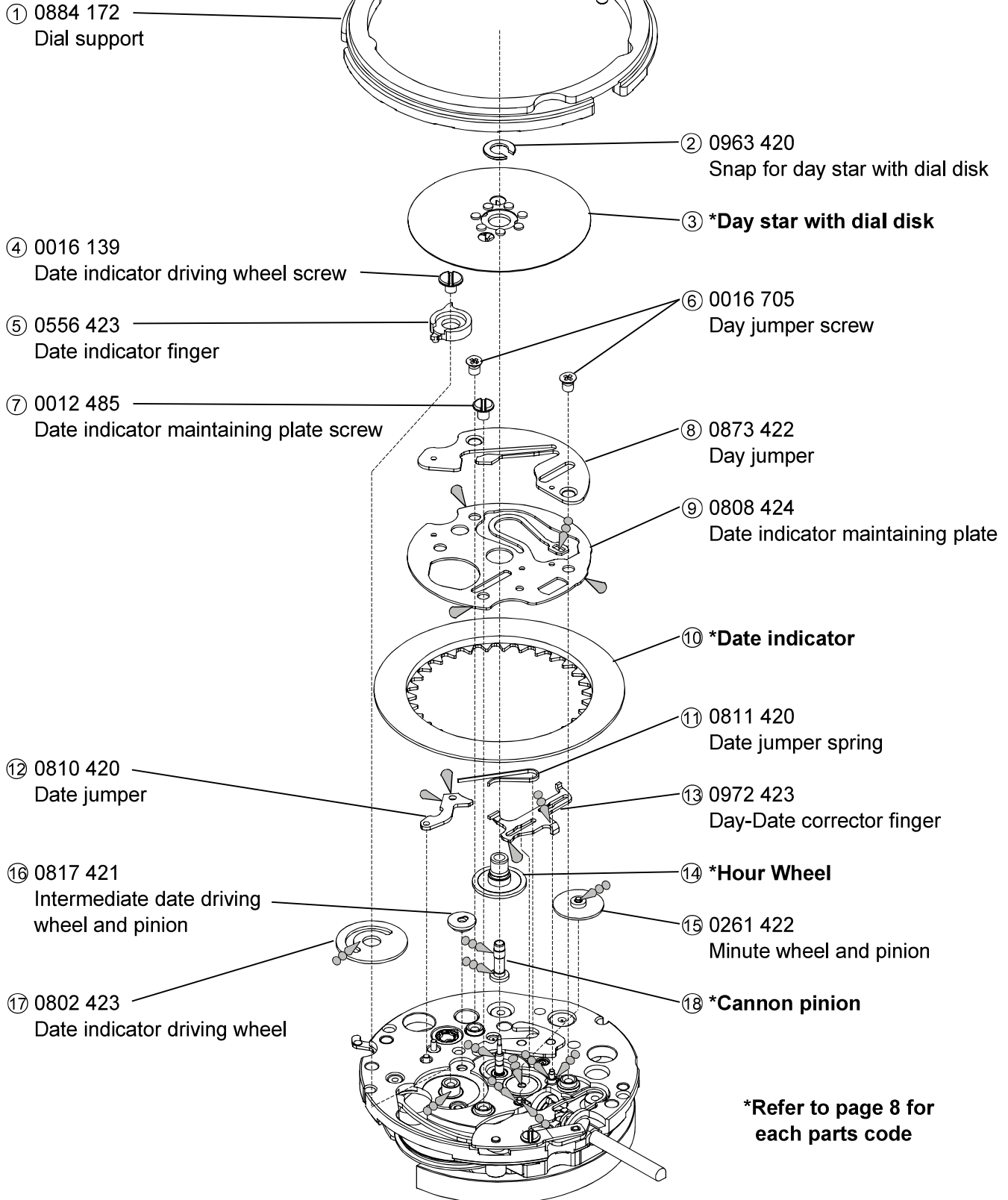


Normal quantity



Sufficient quantity

<<NH06B>>



Disassembling procedures Figs.
① → ⑥①
Reassembling procedures Figs.
⑥① → ①

Type of oil



Moebius 9010



A9a (S-6)

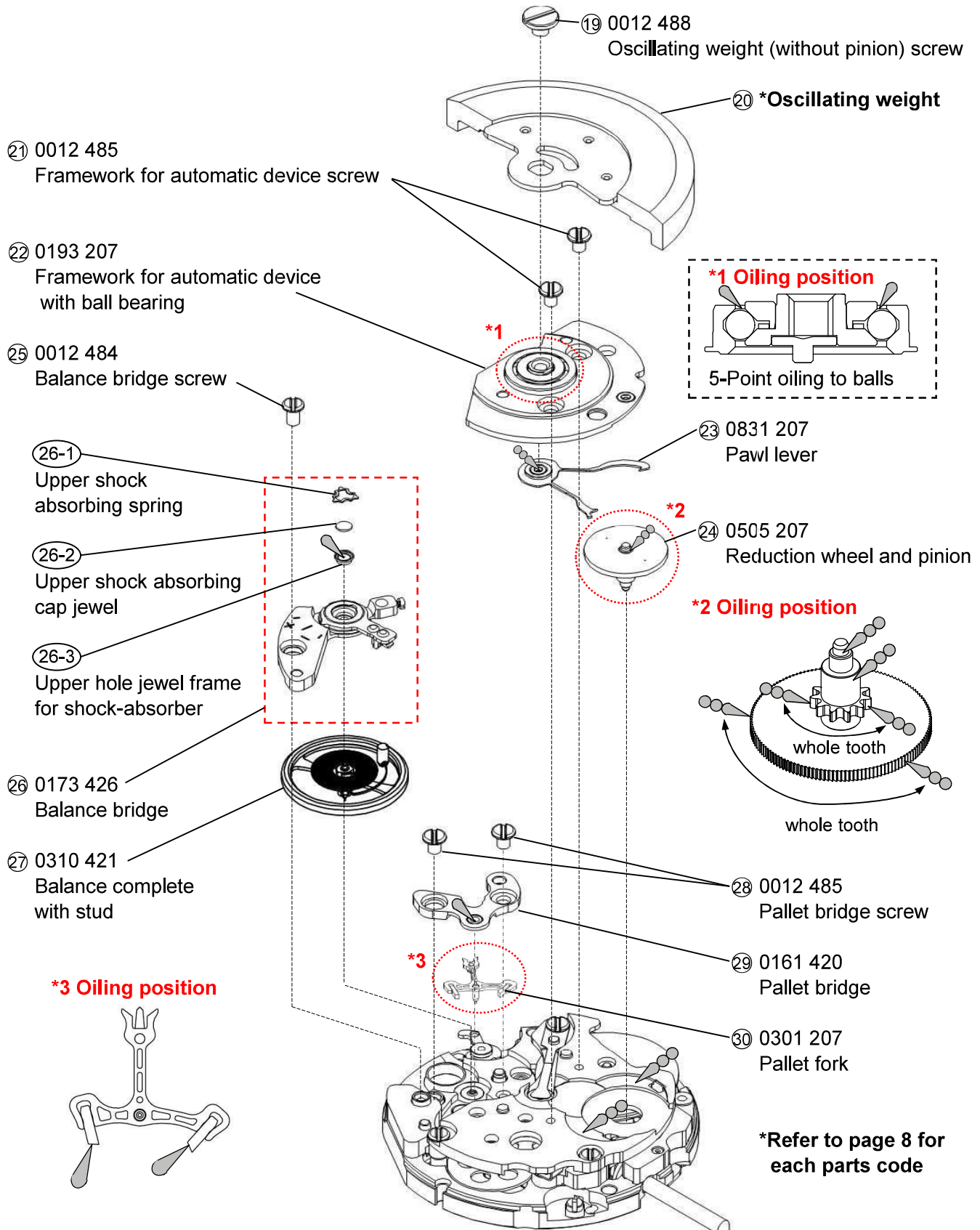
Oil quantity mark



Normal quantity



Sufficient quantity



Disassembling procedures Figs.

① → ⑥⑩

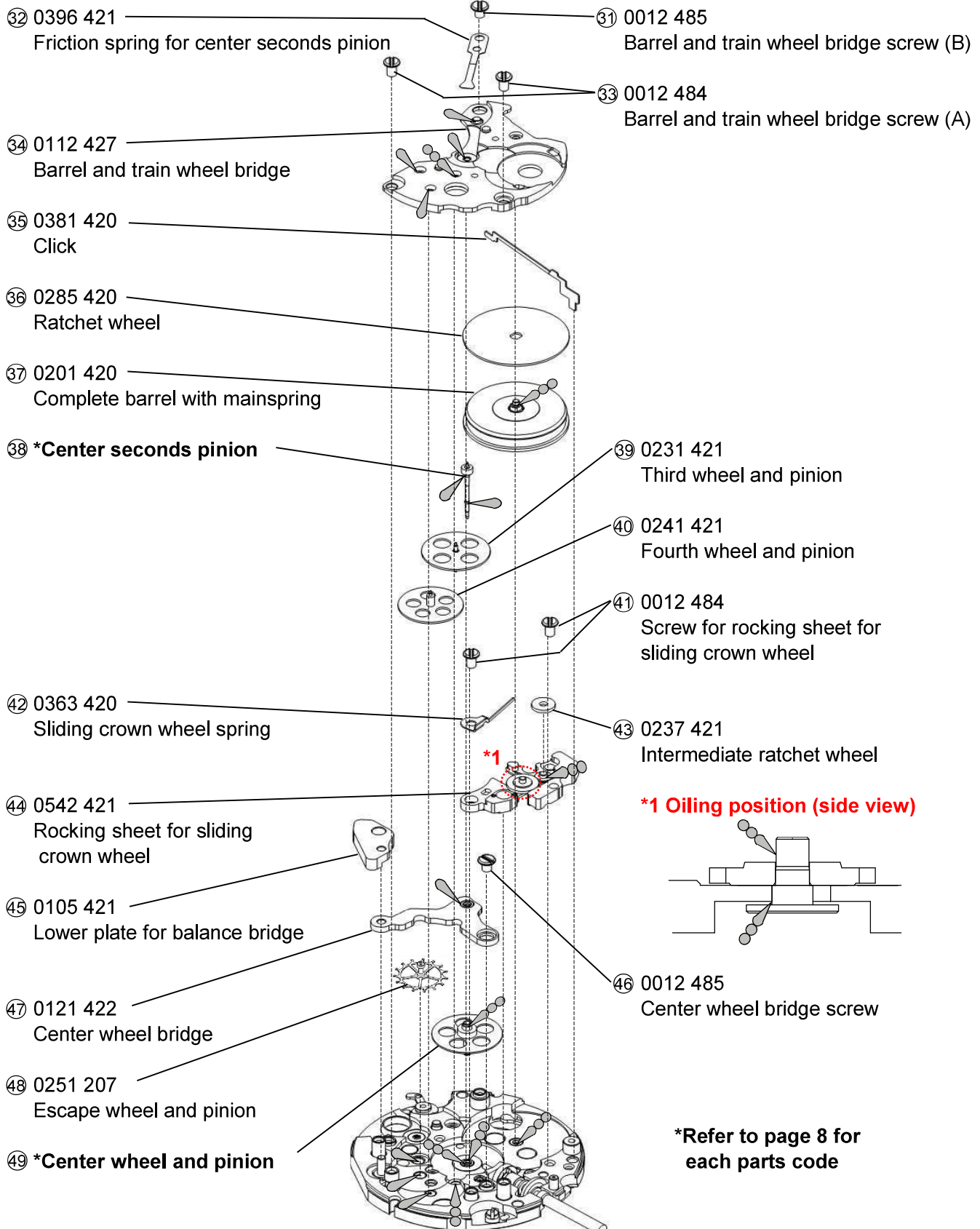
Reassembling procedures Figs.

⑥⑩ → ①

Type of oil
 Moebius 9010

 A9a (S-6)

Oil quantity mark
 Normal quantity

 Sufficient quantity


Disassembling procedures Figs.

① → ⑥①

Reassembling procedures Figs.

⑥① → ①

Type of oil

Moebius 9010

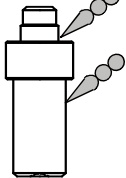
A9a (S-6)

Oil quantity mark

Normal quantity

Sufficient quantity

***1 Oiling position**



⑤⑧ Upper shock absorbing spring

⑤⑨ Upper shock absorbing cap jewel

⑥① Upper hole jewel frame for shock-absorber

⑤① 0012 484
Setting lever spring screw

⑤② 0388 420
Setting lever spring

⑤③ 0384 207
Yoke

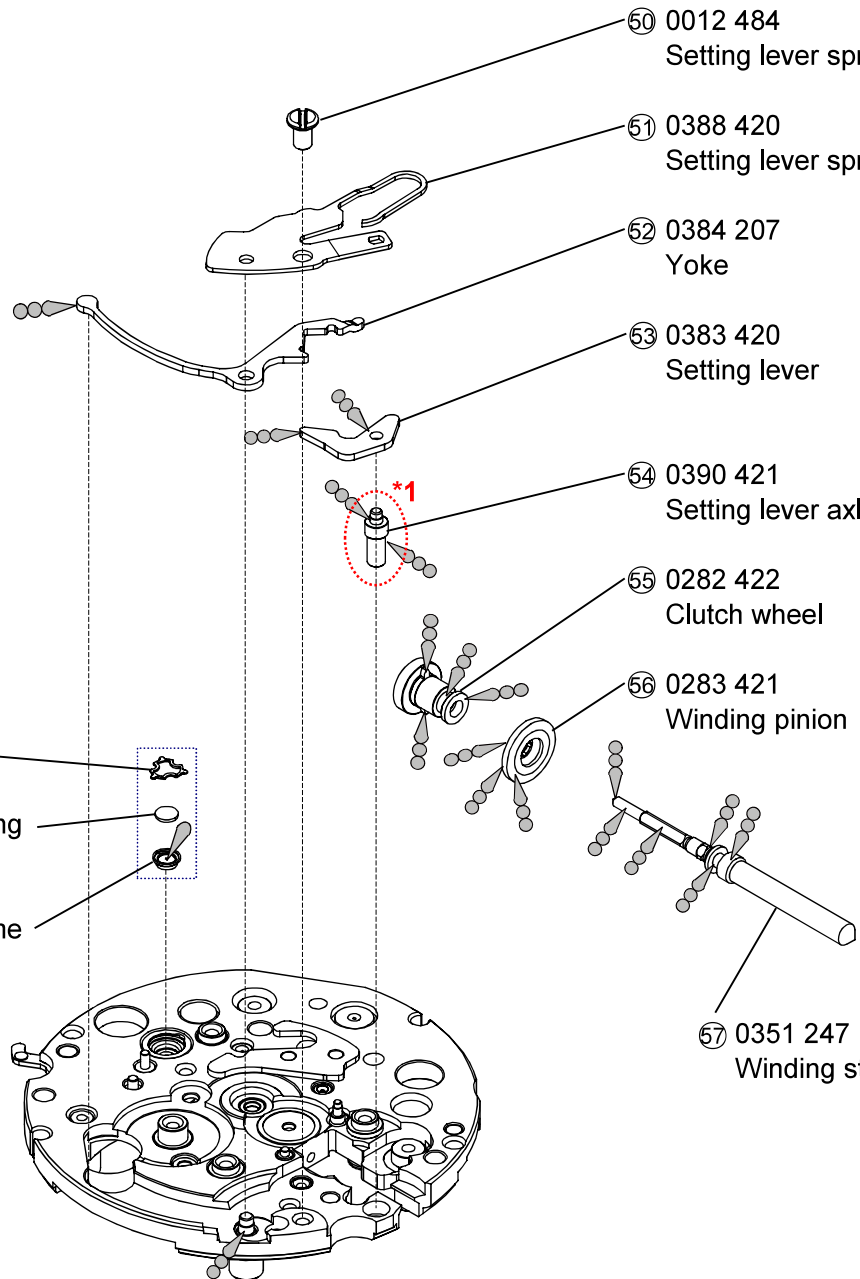
⑤④ 0383 420
Setting lever

⑤⑤ 0390 421
Setting lever axle

⑤⑥ 0282 422
Clutch wheel

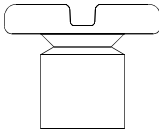
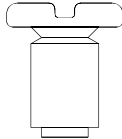
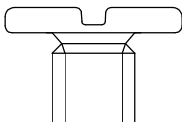
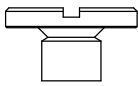
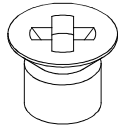
⑤⑦ 0283 421
Winding pinion

⑤⑧ 0351 247
Winding stem



Remarks

● List of screws

| Parts No. | Appearance | Page | Parts Name | Q'ty |
|-----------|---|------|---|------|
| 0012 485 |  | 2 | ④ Date indicator maintaining plate screw | 3 |
| | | 3 | ⑦ | 1 |
| | | 4 | ⑳ Framework for automatic device screw | 2 |
| | | 4 | ㉘ Pallet bridge screw | 2 |
| | | 5 | ㉛ Barrel and train wheel bridge screw (B) | 1 |
| | | 5 | ㉞ Center wheel bridge screw | 1 |
| 0012 484 |  | 4 | ㉝ Balance bridge screw | 1 |
| | | 5 | ㉛ Barrel and train wheel bridge screw (A) | 2 |
| | | 5 | ㉜ Screw for rocking sheet for sliding crown wheel | 2 |
| | | 6 | ㉞ Setting lever spring screw | 1 |
| 0016 139 |  | 2 | ② Date indicator driving wheel screw | 1 |
| | | 3 | ⑦ | |
| 0012 488 |  | 4 | ⑲ Oscillating weight (without pinion) screw | 1 |
| 0016 705 |  | 3 | ⑥ Day jumper screw | 2 |

***All parts code are subject to change without notice.**

Remarks

③ Day star with dial disk (Page 3)

| Cal. | Parts code | Position of crown | Position of day frame | Color of letters | Color of background | Language |
|-------|------------|-------------------|-----------------------|--|---------------------|-------------------|
| NH06B | 0160 355 | 3H | 3H | MON ~ FRI : Black SAT : Blue SUN : Red | White | English & Chinese |

⑥ Date indicator (Page 2)

| Cal. | Parts code | Position of crown | Position of date frame | Color of numbers | Color of background |
|-------|------------|-------------------|------------------------|------------------|---------------------|
| NH05B | 0878 425 | 3H | 3H | Black | White |

⑩ Date indicator (Page 3)

| Cal. | Parts code | Position of crown | Position of date frame | Color of numbers | Color of background |
|-------|------------|-------------------|------------------------|------------------|---------------------|
| NH06B | 0148 085 | 3H | 3H | Black | White |

⑩ Hour Wheel (Page 2)

| Cal. | Parts code |
|-------|------------|
| NH05B | 0271 425 |

⑭ Hour Wheel (Page 3)

| Cal. | Parts code |
|-------|------------|
| NH06B | 0271 425 |

⑭ Cannon pinion (Page 2)

| Cal. | Parts code |
|-------|------------|
| NH05B | 0225 422 |

⑩ Cannon pinion (Page 3)

| Cal. | Parts code |
|-------|------------|
| NH06B | 0225 422 |

⑳ Oscillating weight (Page 4)

| Cal. | Parts code | Marking | Cal. | Parts code | Marking |
|-------|------------|---------------|-------|------------|---------------|
| NH05B | 1500 436 | Japan mark | NH06B | 1500 438 | Japan mark |
| | 1500 446 | Malaysia mark | | 1500 448 | Malaysia mark |
| | 1500 487 | China mark | | 1500 489 | China mark |

㉓ Center second pinion (Page 5)

| Cal. | Parts code |
|----------------|------------|
| NH05B NH06B | 0245 425 |

㉔ Center wheel and pinion (Page 5)

| Cal. | Parts code |
|----------------|------------|
| NH05B NH06B | 0224 425 |

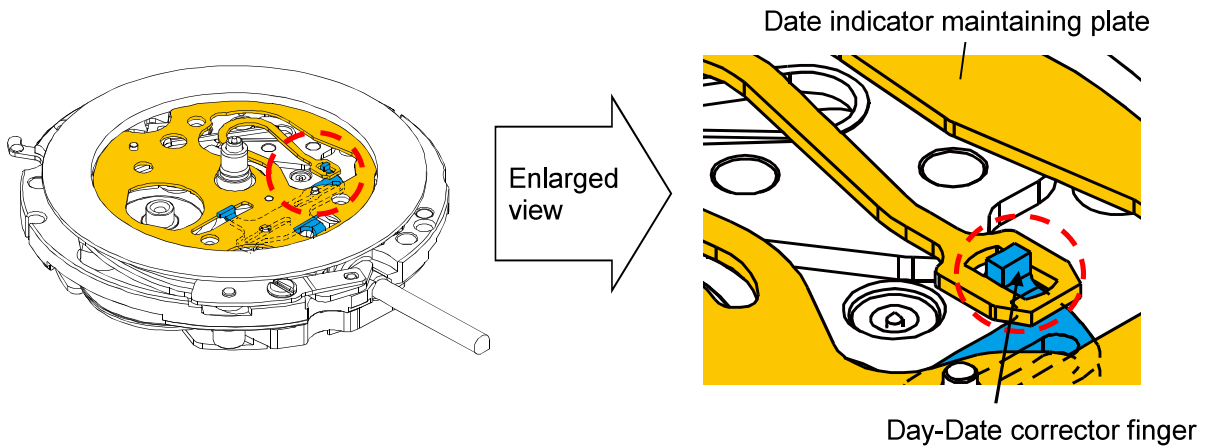
***All parts code are subject to change without notice.**

• The following explanation is only for Cal.NH05/06B.

NH05B ⑤ (Page 2) Date indicator maintaining plate

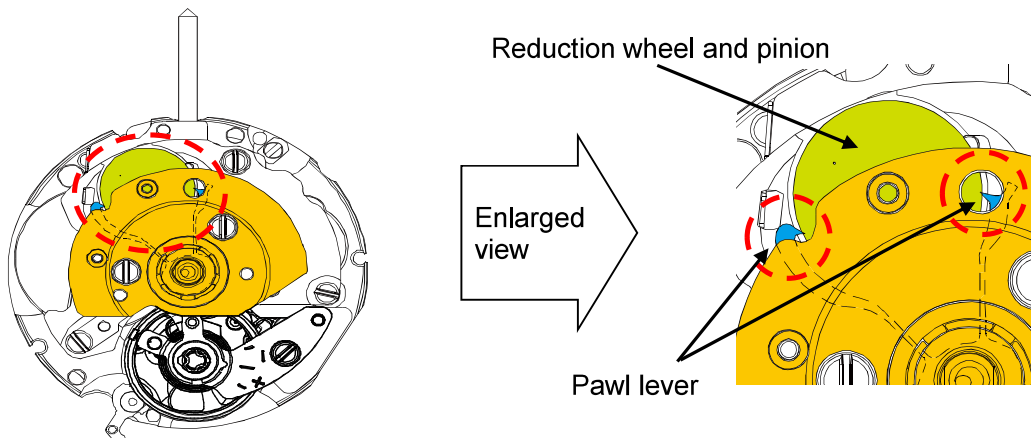
NH06B ⑨ (Page 3)

Day-Date corrector finger is set to the hole of Date indicator maintaining plate.



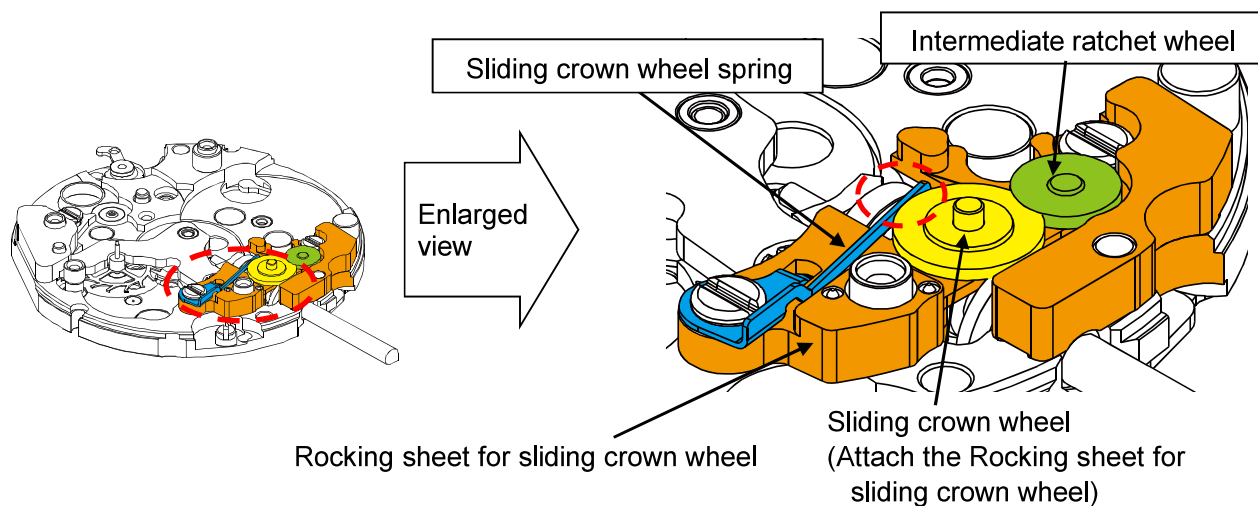
㉓ Pawl lever (Page 4)

Pawl lever has to be set to engage with the teeth of Reduction wheel and pinion.



㉔ Sliding crown wheel spring (Page 5)

Please set Sliding crown wheel spring to the side of Sliding crown wheel.

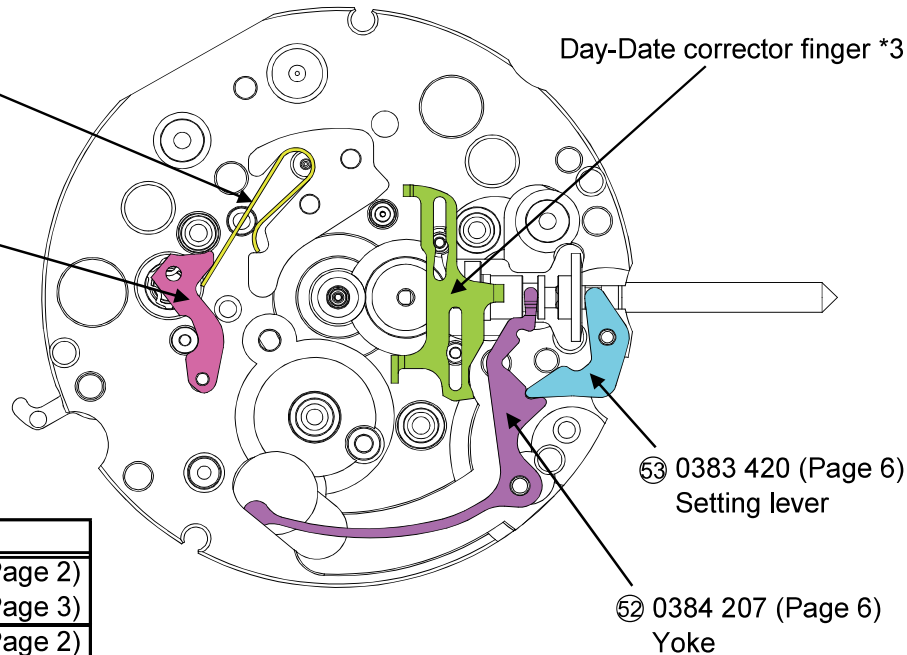


1.Setting position

Date jumper spring *1

Date jumper *2

Day-Date corrector finger *3

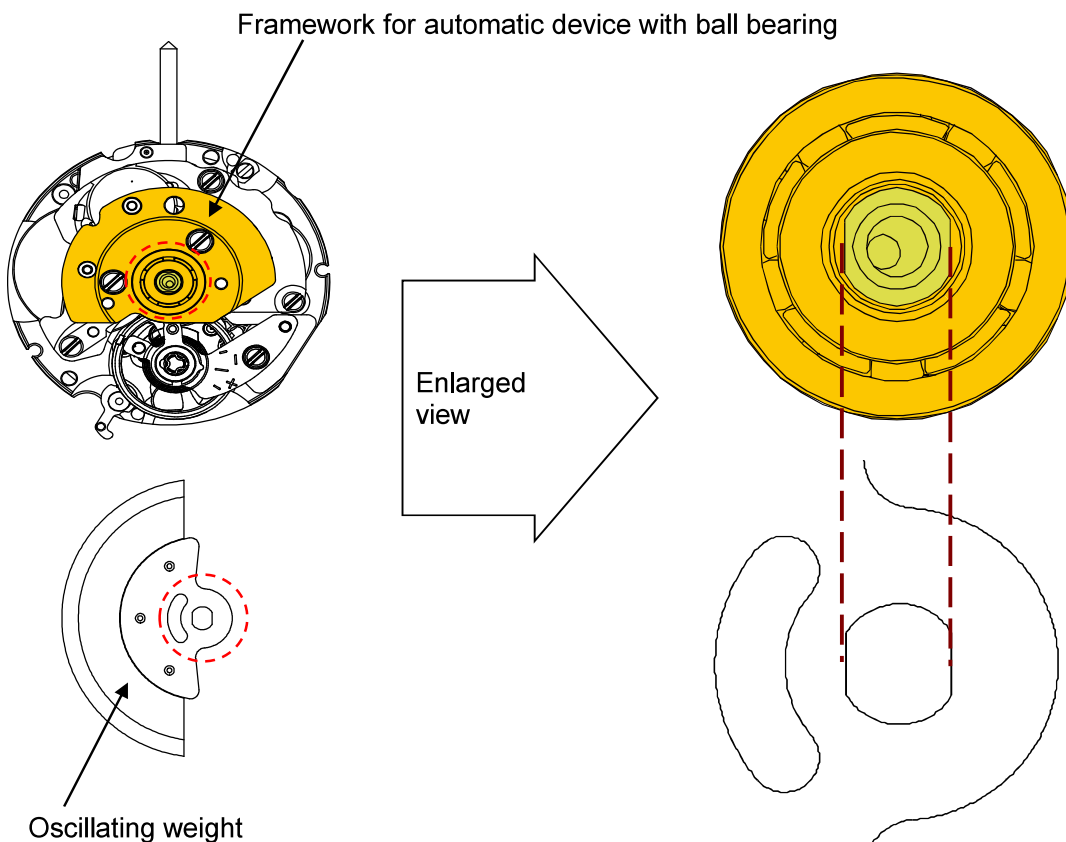


| Parts code | Cal. |
|-------------|--------------------------------------|
| *1 0811 420 | NH05B ⑦ (Page 2) NH06B ⑪ (Page 3) |
| *2 0810 420 | NH05B ⑧ (Page 2) NH06B ⑫ (Page 3) |
| *3 0972 423 | NH05B ⑨ (Page 2) NH06B ⑬ (Page 3) |

2.Setting position of oscillating weight

•Before assembling oscillating weight.

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



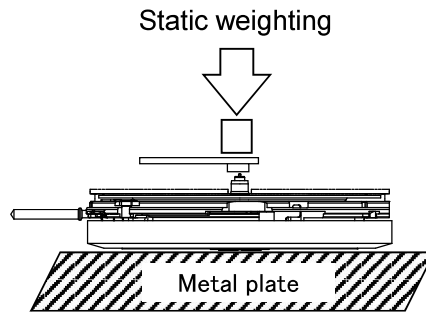
3.How to install hands

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.



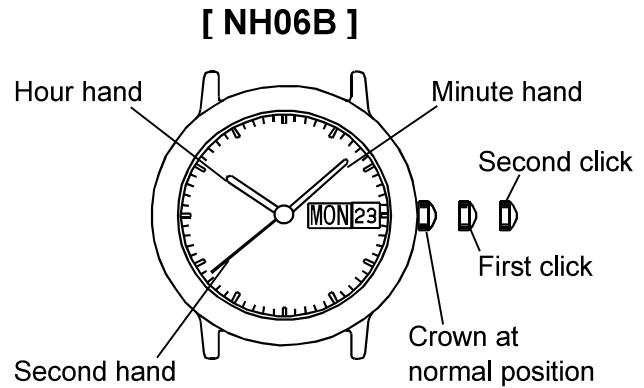
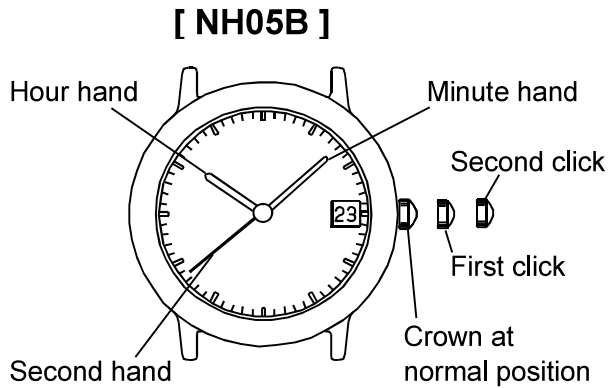
4.Accuracy measurement condition

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.NH06B only)
- 4) 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.
- b) To wind up with winding machine.
 Full wind up conditions (Reference information)
 - Rotary speed : 30 rpm
 - Operating time : 60 minutes