
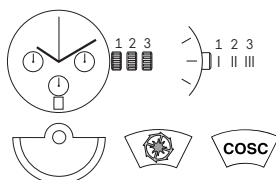
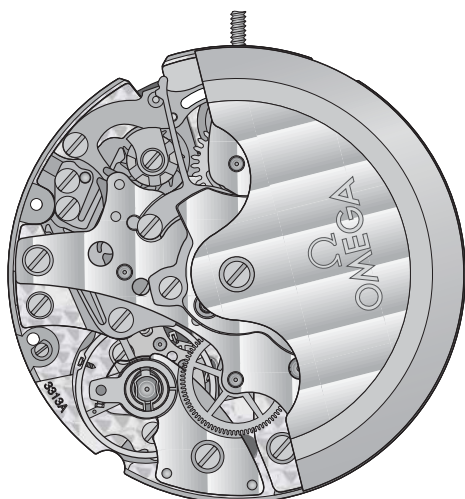


| | | | | |
|---|-----------------|------------------|---------------|------------------------------|
|  | Technical Guide | | TG-19-C-017-E | C |
| | Made by: rendav | Date: 27.08.2008 | 3 | Modifications: see last page |

CALIBRE 3313

| | Version A | Version B |
|--------------------------|--|-----------|
| <p>12''' Ø 27 mm</p> |  | |
| Height on movement | 6.85 mm | |
| Power reserve | 52 h | |
| Number of jewels | 37 | |
| Frequency | 4 Hz (28'800 A/h) | |



Automatic movement, exclusive Omega chronograph, date, COSC certified, Co-Axial escapement. Chronograph system with column-wheel. 30-min. minute counter and 12-h hour counter + small second hand at 9 o'clock. Omega balance system without index.

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Balance bridge and chronograph bridge

The bridges with serial numbers are not available (see CS-Info Calibre No 33). For exchange, see table:

| Exchanges | | with serial no |
|-----------|--|--|
| Version A | Chronograph bridge (ref. 7223313A1504018) | For exchanges always sent to Omega. Engravings at Omega within 4 weeks. |

| Exchanges | | with serial no |
|---------------|--|--|
| Version A + B | Balance bridge (ref. 7223313A1005818) (ref. 7223313B1005818) | For exchanges always sent to Omega. Engravings at Omega within 4 weeks. |

Key points

The three intermediate driving wheels for ratchet wheel (32.083) must be correctly lubricated with Moebius SYNT-HP-1300 Sans Colorant. Insufficient lubrication could lead to the formation of burrs or chips and hinder the correct winding of the barrel. Cleaning would not be sufficient to remove all this. (see page 6 and 7).

Due to the movement construction, there are various screw lengths. To avoid problems at assembly, group identical screws together for cleaning.

Co-axial Escapement lubrication

See Working Instruction No 40.

Tightening and untightening torques according to screw thread size

| Screw Ø | Tightening torque target cNm | Untightening torque mini cNm |
|-----------------------|------------------------------|------------------------------|
| Ø threads ≤ S 0.50 mm | 1.0 | 0.7 |
| Ø threads S 0.6 mm | 1.4 | 0.8 |
| Ø threads S 0.7 mm | 1.8 | 0.9 |
| Ø threads S 0.8 mm | 2.2 | 1.1 |
| Ø threads S 0.9 mm | 2.6 | 1.3 |
| Ø threads S 1.0 mm | 3.0 | 1.6 |
| Ø threads S 1.2 mm | 3.5 | 2.0 |
| Ø threads S 1.4 and > | 4.0 | 2.5 |

Mandatory tools:

To fit the hands, the movement must be placed in a suitable, well-adjusted movement holder.

Hand fitting

Movement holder for hand fitting
Hand fitting tool kit

Reference

507 0001
507 0011

Movement

Mainspring winder
Timing key
Movement holder
Tool for checking the escapement functions

Reference

502 150 0009
502 200 0501
506 0001
506 0004

Lubricants

Moebius SYNT-A-LUBE 9010 (2ml)
Moebius SYNT HP-1300 Sans Colorant
Moebius 9504
Moebius SYNT HP-500
Kluber P125

Reference


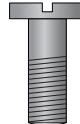
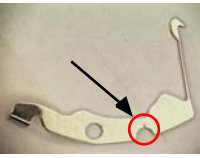


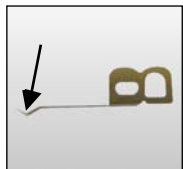



504 200 0001
504 5013
504 5014
504 5012
504 100 0071

General information for Calibre 3313



Date correction

Date correction should not be performed between 10 pm and 2 am.



Technical modifications on version «A»

| Screw for hammer-lever banking bridge | | | | |
|--|---|---|---|---|
| Old version | Risk | New version | Improvements | Notes |
| 72233036033 | Broken screw head. Old screw length 1.90 mm with guide. Consequence: start/stop function no longer works. The head or the bridge can block the movement. | 72233036034 | New screw length 1.95 mm without guide, threaded to the end, stronger. New version since week 35/2004. | The new version must be fitted during a maintenance service. If the screw thread cannot be removed from the limitation bridge, the full barrel bridge must be replaced (ref. 722330310041). |
|  | |  | | |
| Column wheel operating lever | | | | |
| Old version | Risk | New version | Improvements | Notes |
| 722330355040 | The column wheel control can bend at the weakest place (see arrow). Consequence: start/stop function does not work. | 722330355040 | Stronger. New version since week 32/2003. | The new version must be fitted during a maintenance service. The circled part must under no circumstances be bent or modified! |
|  | |  | | |
| Minute counter jumper | | | | |
| Old version | Risk | New version | Improvements | Notes |
| 722330355143 | The jumper breaks at the place where it is bent. Consequence: the minute counter can no longer be reset to zero. | 722330355143 | Stronger. New version since week 32/2003. | The new version must be fitted during a maintenance service. |
|  | |  | | |
| Hammer operating lever | | | | |
| Old version | Risk | New version | Improvements | Notes |
| 722330355047 | The first execution can bend. The second execution with reset to zero too strong. In both cases, the chronograph hand is not reset correctly to zero. | 7223303A55048 | The new shape ensures correct resetting to zero and that the hand is held firmly. New version since week 32/2003. | The new version must be fitted during a maintenance service. |
|   | |  | | |

Technical modifications on version «A» and «B»

| Rocking bar | | | | |
|---|---|---|--|---|
| Old version | Risk | New version | Improvements | Notes |
| 722330351052 | The setting lever might bend due pressure on stem. Consequence: Malfunction of time setting function. | 722330351052 | The finger on rocking bar is decreasing this risk. New version available since 27/2008 | The new version must automatically be assembled if this case happens. |
|  | |  | | |

Technical modifications on version «B»

| Intermediate escape wheel | | | | |
|--|---|--|---|--|
| Old version | Risk | New version | Improvements | Notes |
| 7223313B30039 | Black residues within the engagement can cause low amplitude or a stop of the watch. The old version is yellow. | 7223313B30039 | Improvement of surface and material. The new version is grey. Available since 33/2008 | The new version must automatically be assembled if black residues within the engagement are visible. |
|  | |  | | |

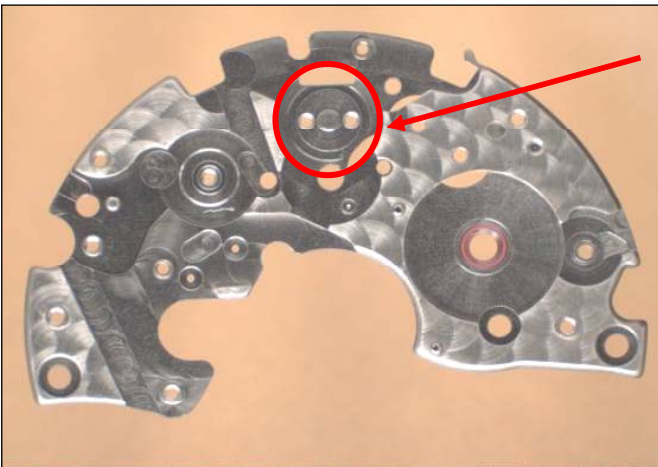
Customer Service lubrication of stud for crown wheel (31.023) and the 3 intermediate driving wheels for ratchet wheel (32.083):

With the aim of constantly improving the performances and reliability of Omega products, the lubrication in Customer Service has been updated.

Amount of lubricant to be applied :

- On the crown wheel stud and the stud for the three ratchets intermediate driving wheels during a service.

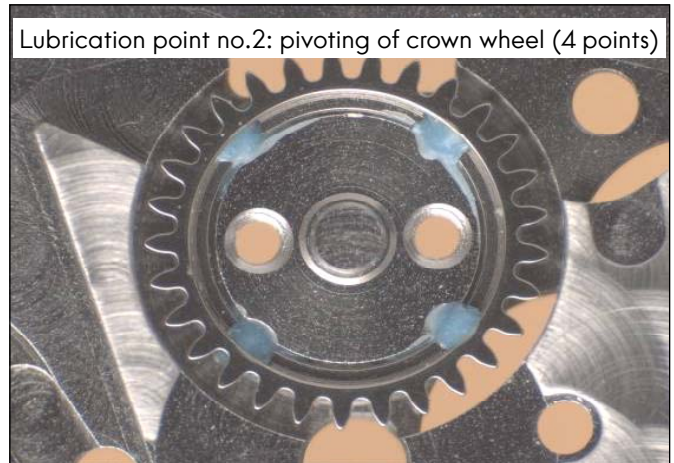
Lubrication of stud for crown wheel (Moebius 9504)



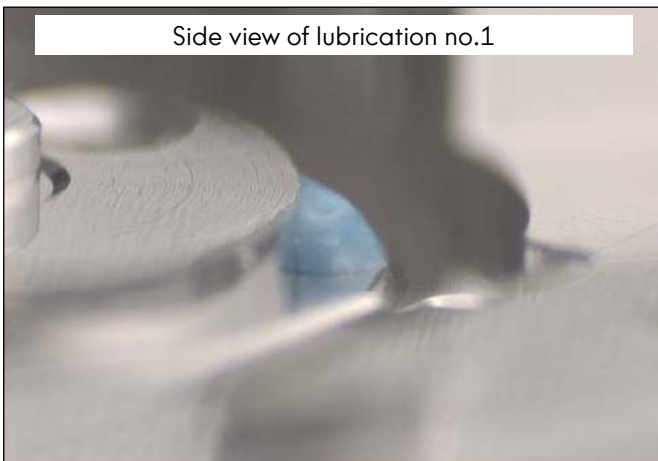
Stud for crown wheel



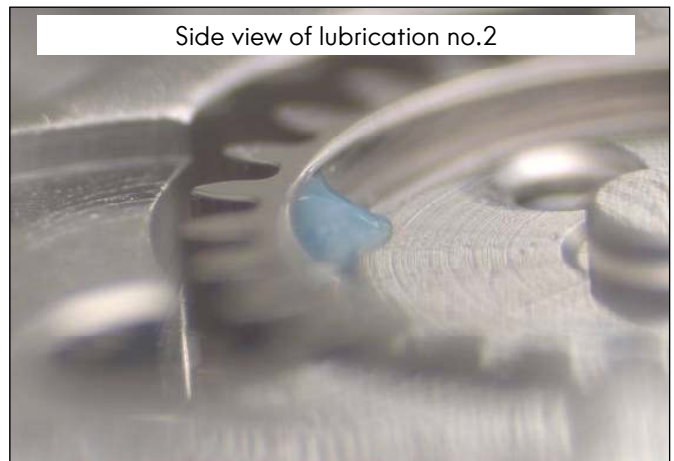
Lubrication point no.1: crown wheel support (4 points)



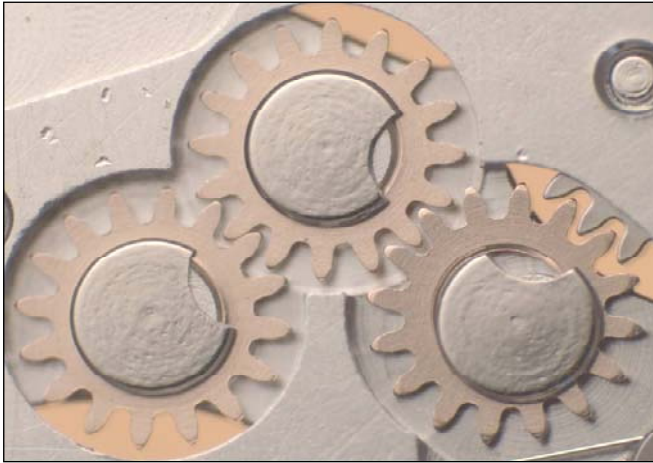
Lubrication point no.2: pivoting of crown wheel (4 points)



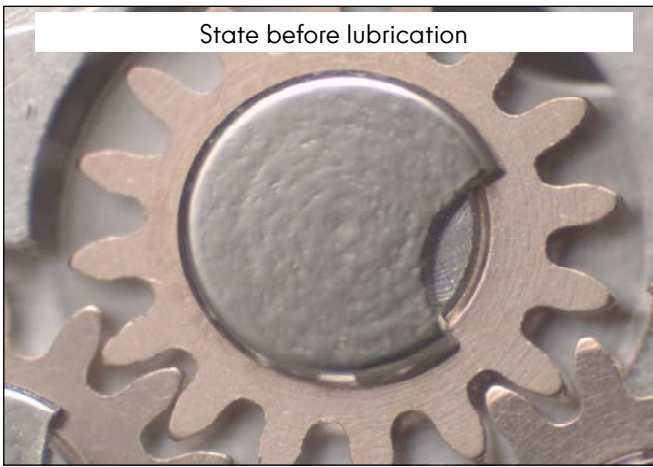
Side view of lubrication no.1



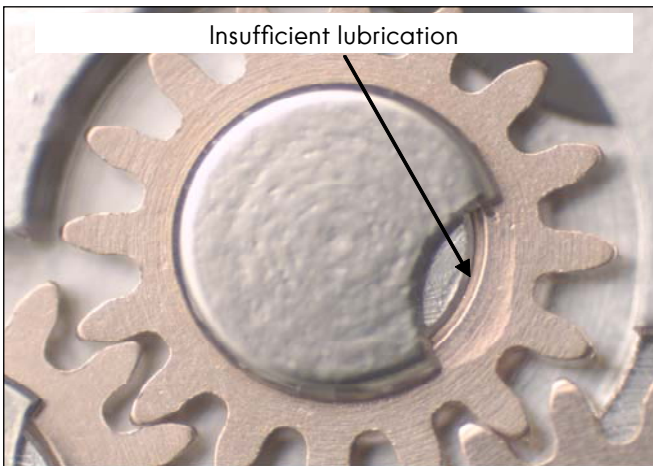
Side view of lubrication no.2



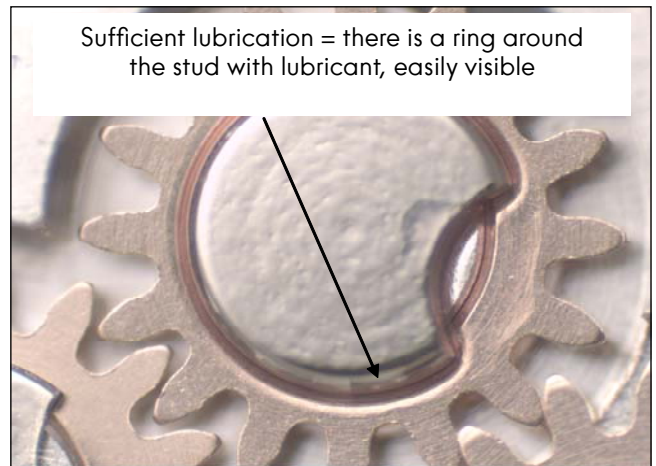
Lubrication of the 3 intermediate driving wheels for ratchet wheel (HP 1300 Sans Colorant)



State before lubrication

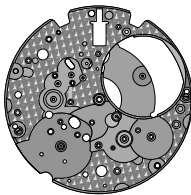
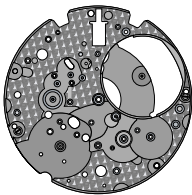

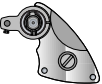


















Insufficient lubrication



Sufficient lubrication = there is a ring around the stud with lubricant, easily visible


Differences between Calibre 3313A and 3313B

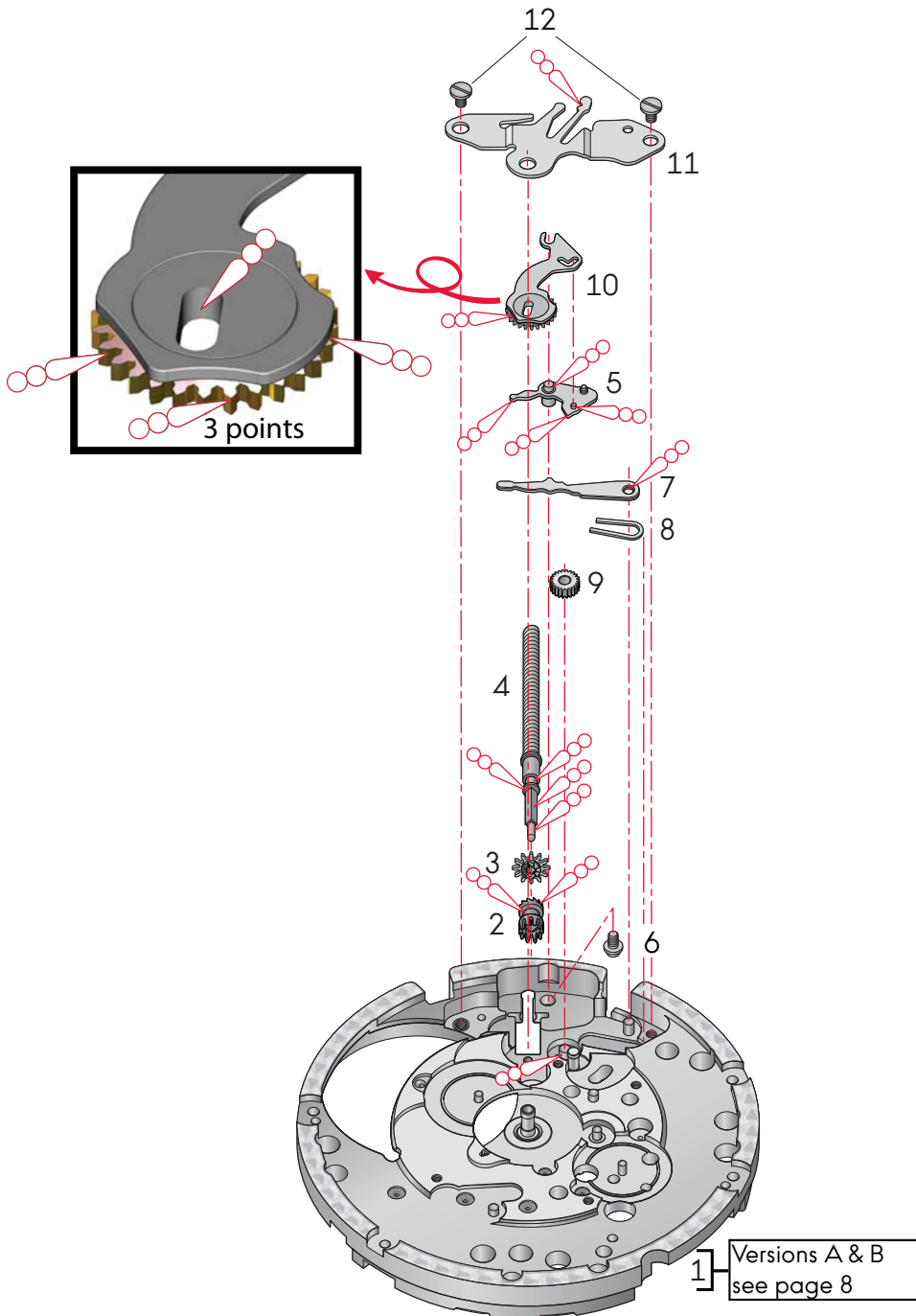
| | 3313A (4 Hz) | 3313B (4 Hz) |
|---------------------------|--|--|
| Main plate |  Ref. 722331310020 Ø Hole for dial fastener: 0.80 mm |  Ref. 7223313B10020 Ø Hole for dial fastener: 1.00 mm |
| Balance bridge, complete |  Ref. 7223313A1005818 |  Ref. 7223313B1005818 |
| Intermediate escape wheel |  Ref. 7223313A30039 |  Ref. 7223313B30039 |
| Co-Axial wheel |  Ref. 7222500B30040 |  Ref. 7222500C30040 |
| Pallet fork |  Ref. 7222500B40010 |  Ref. 7222500C40010 |
| Balance, complete |  Ref. 722331340055 Cylindrical pivots Ø 0.08 mm |  Ref. 7223313B40055 Conical pivots Ø 0.07 mm |
| Schock-absorber, upper |  Ref. 722330332025 Jewel hole Ø 0.09 mm Nickel-plated |  Ref. 7223313B32027 Jewel hole Ø 0.08 mm Gold-plated |
| Schock-absorber, lower |  Ref. 7223313A70531 Jewel hole Ø 0.09 mm Nickel-plated |  Ref. 7223313B32068 Jewel hole Ø 0.08 mm Gold-plated |
| In settings, upper |  Ref. 7223303A32127 Jewel hole Ø 0.09 mm |  Ref. 7223313B32127 Jewel hole Ø 0.08 mm |
| In settings, lower |  Ref. 7223303A32167 Jewel hole Ø 0.09 mm |  Ref. 7223313B32167 Jewel hole Ø 0.08 mm |



Parts listed in order of assembly





| | |
|---------------|----------------|
| 1 = 10020 | 7 = 51050 |
| 2 = 31121 | 8 = 61100 |
| 3 = 31120 | 9 = 33082 |
| 4 = 51010 | 10 = 51052 |
| 5 = 51083 | 11 = 51090 |
| 6 = 6407 (1x) | 12 = 7035 (2x) |

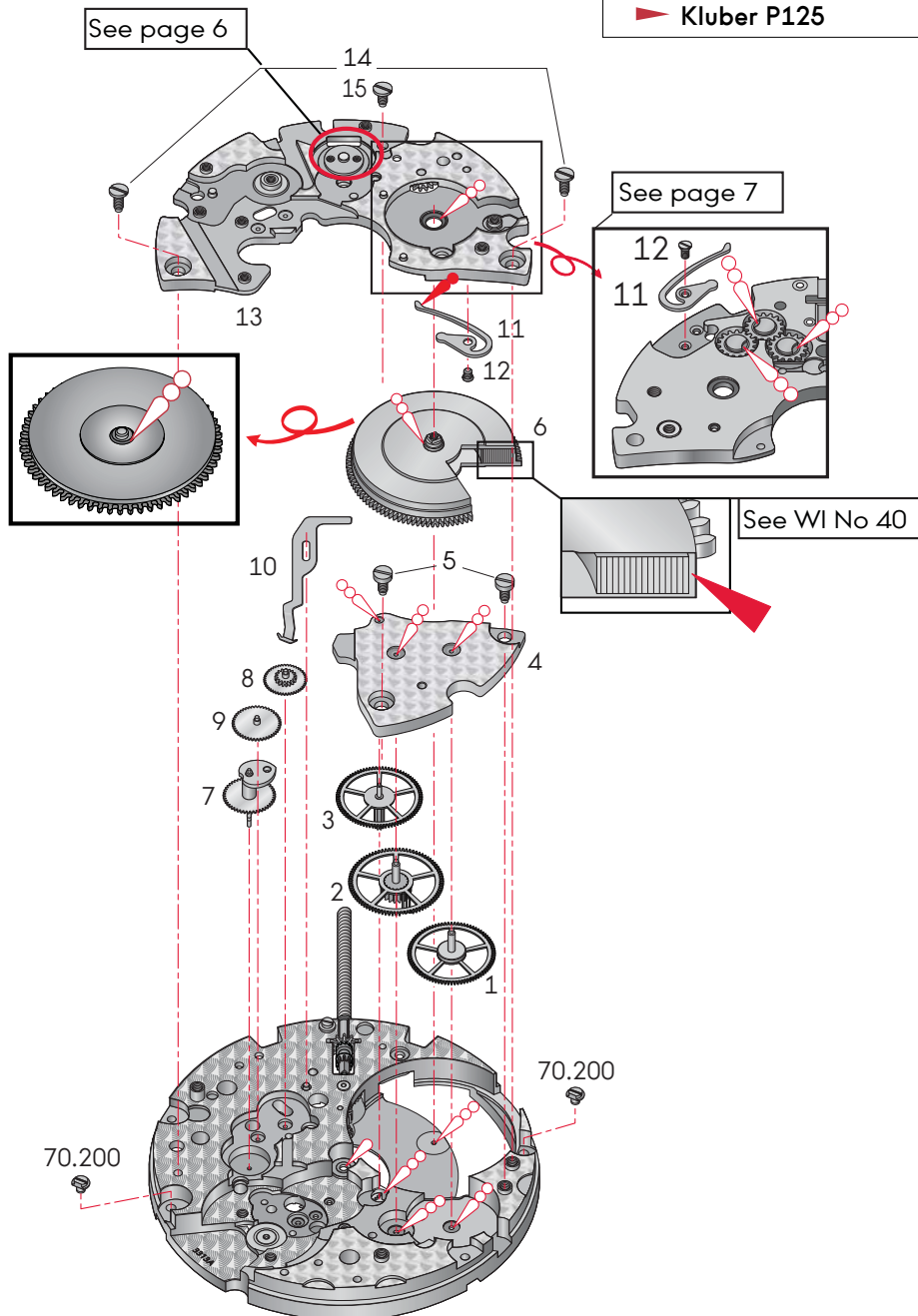
 Moebius SYNT HP-1300 Sans Colorant



Parts listed in order of assembly

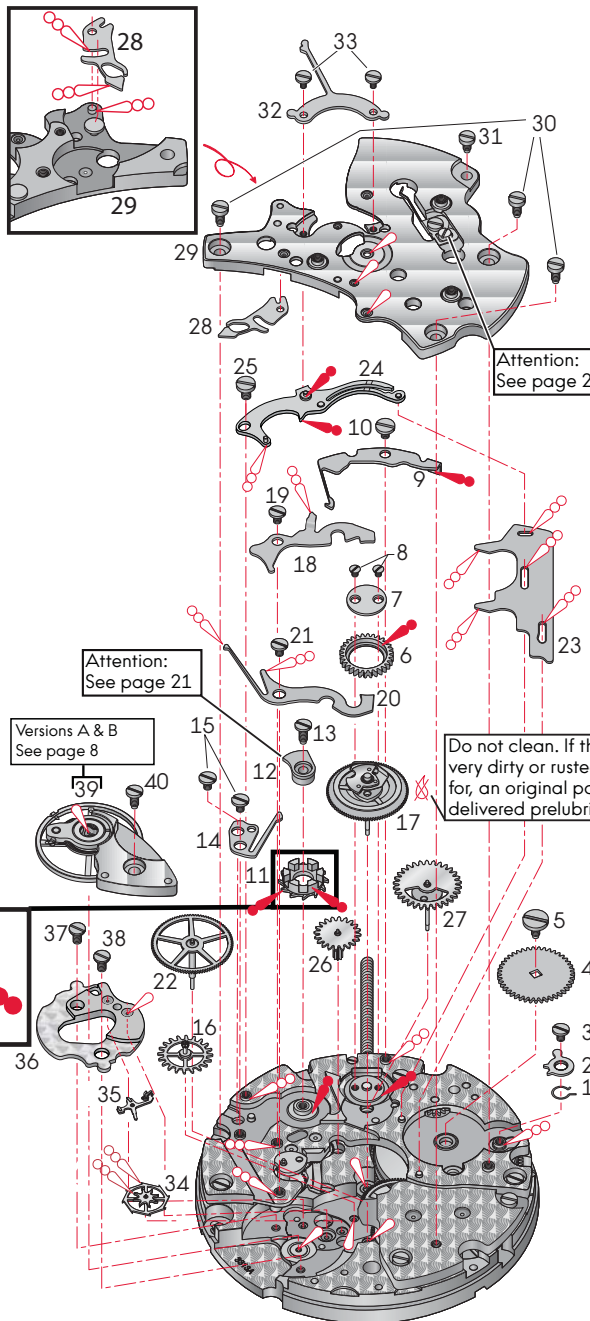
| | |
|---------------|----------------|
| 1 = 30012 | 9 = 35033 |
| 2 = 30014 | 10 = 56070 |
| 3 = 30025 | 11 = 65040 |
| 4 = 10048 | 12 = 6204 (1x) |
| 5 = 7031 (2x) | 13 = 10041 |
| 6 = 20010 | 14 = 7031 (2x) |
| 7 = 35030 | 15 = 6011 (1x) |
| 8 = 35032 | |

-  Moebius SYNT HP-1300 Sans Colorant
-  Moebius SYNT-A-LUBE 9010
-  Moebius 9504
-  Kluber P125



Parts listed in order of assembly

| | |
|----------------|------------------|
| 1 = 61080 | 21 = 6004 (1x) |
| 2 = 51120 | 22 = 30027 |
| 3 = 7008 (1x) | 23 = 55240 |
| 4 = 31022 | 24 = 55048 |
| 5 = 6019 (1x) | 25 = 6004 (1x) |
| 6 = 31023 | 26 = 35031 |
| 7 = 81136 | 27 = 35012 |
| 8 = 6204 (2x) | 28 = 55248 |
| 9 = 55040 | 29 = 15040 |
| 10 = 6022 (1x) | 30 = 7031 (3x) |
| 11 = 55180 | 31 = 7033 (1x) |
| 12 = 10615 | 32 = 65047 |
| 13 = 6034 (1x) | 33 = 6012 (2x) |
| 14 = 55130 | 34 = 30040 |
| 15 = 6004 (2x) | 35 = 40010 |
| 16 = 30039 | 36 = 10056 |
| 17 = 35010 | 37 = 8204 (1x) |
| 18 = 55100 | 38 = 8204 (1x) |
| 19 = 6004 (1x) | 39 = 10058/40055 |
| 20 = 55090 | 40 = 7031 (1x) |

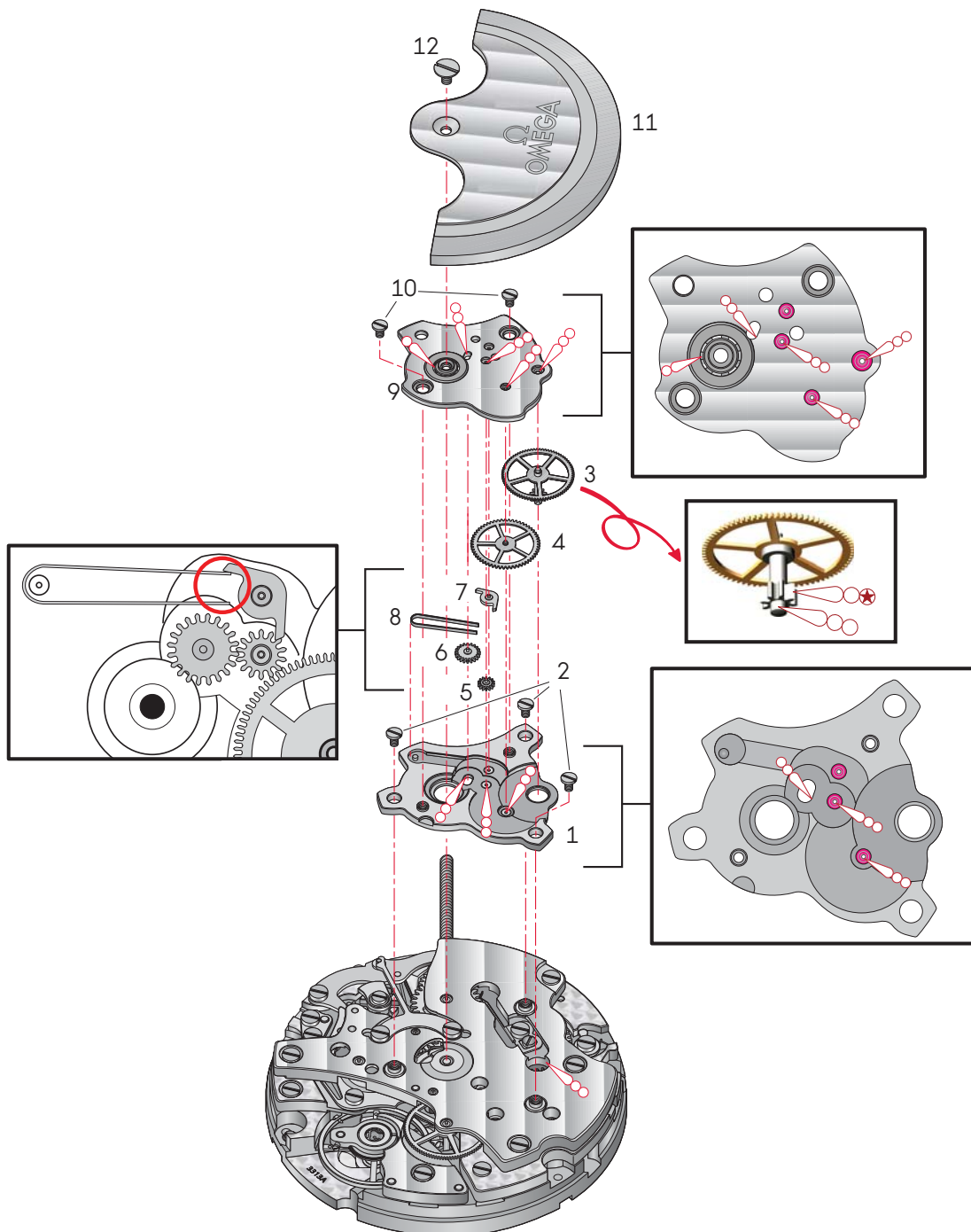


Moebius SYNT HP-1300 Sans Colorant
 Moebius SYNT-A-LUBE 9010
 Moebius 9504

Parts listed in order of assembly




| | |
|---------------|-----------------|
| 1 = 12030 | 7 = 52053 |
| 2 = 7033 (3x) | 8 = 62101 |
| 3 = 3203301 | 9 = 12050 |
| 4 = 32031S2 | 10 = 6003 (2x) |
| 5 = 32105 | 11 = 22019 |
| 6 = 32104 | 12 = 8200B (1x) |

 **Moebius SYNT HP-500**
 **Moebius SYNT HP-1300 Sans Colorant**



Parts listed in order of assembly

| | |
|-------------|----------------|
| 1 = 31102 | 8 = 53080 |
| 2 = 33083 | 9 = 91440 |
| 3 = 53200 | 10 = 63030 |
| 4 = 31080 | 11 = 13105 |
| 5 = 31041S2 | 12 = 6210 (4x) |
| 6 = 33020 | 13 = 31046 |
| 7 = 33011 | 14 = 66220 |

-  Moebius SYNT-A-LUBE 9010
-  Moebius 9504
-  Moebius SYNT HP-1300 Sans Colorant

