
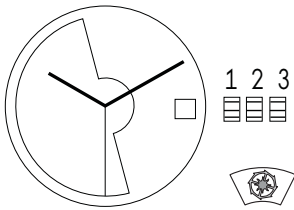


| | | | | |
|---|---------------------|------------------|---------------|------------------------------|
|  | Technical Guide | | TG-19-C-001-E | D |
| | Produced by: rendav | Date: 04.06.2009 | 3 | Modifications: See last page |

CALIBRE 2500

| | Version A | Version B | Version C |
|--|--|-----------|---------------------|
| <p>11 1/2''' Ø 25,60 mm</p> |  | | |
| Height on movement | 4.10 mm | | |
| Power reserve | 44 h | | 48 h |
| Number of rubies | 27 | | 27 |
| Frequency | 4 Hz (28'800 A/h) | | 3.5 Hz (25'200 A/h) |



Automatic movement, Co-Axial escapement, date, COSC-certified, Omega balance system without index. Hour, minute and second hands in centre.

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General information for Calibre 2500

Date correction

The date Correction is not recommended between 10 p.m. and 2 a.m.

Co-axial Escapement lubrication

See Working Instruction No 40.

Measuring instruments depending on operation type

| Operation | Minimum equipment required | Comments |
|--|--|---|
| Complete or partial maintenance service Co-Axial 3.5 Hz & 4 Hz | - Watch Expert II (white case) - Chronoscope M1 (current version) - Chronoscope S1 | |
| Rate adjustment on new watches: (Co-Axial 3.5 Hz & 4 Hz) | - Watch Expert (red case) - Wicomètre Professionnel - Chronoscope M1 (old version) | Important: The amplitude will not be indicated precisely. This is acceptable for the rate adjustment only! |

Complete balance bridge (Ref. 10.058°)

Chronometer balance bridges are not available (see CS-Info Calibre Nr. 33).

Tightening and untightening torques according to screw thread size

| Ø Screw | 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

Hand fitting tool kit

Movement holder for fitting hands

Reference

507 0011

507 0017

Movement

Mainspring winder

Timing key

Tool for checking the escapement functions

Ball bearing set

Key-bolt key for oscillating weight

Holder for oscillating weight

502 150 0009

506 0042

506 0002

502 S03 SET

502 200 0361

502 100 0381

Lubricants

☞ Moebius SYNT-A-LUBE 9010 (2ml)

☞ Moebius HP-500

☞ Moebius SYNT HP-1300 Sans Colorant

● Moebius 9504

▶ Kluber P125

⊕ Lubeta V105

* small quantity

Reference

504 200 0001

504 5012

504 5013

504 5014

504 100 0071



504 5005

General information for Calibre 2500

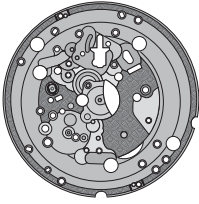
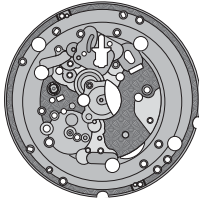
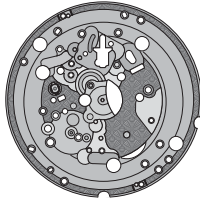
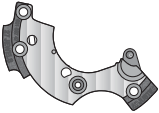
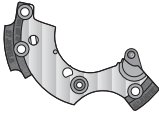
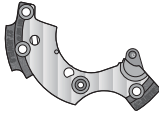






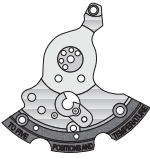
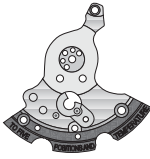
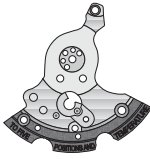



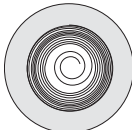
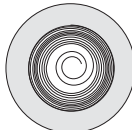
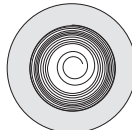






Improvements on version B

| Version A | Version B |
|--------------------------------|------------------------------------|
| Quality of adjustment: Good | Quality of adjustment: Improved |
| Self-starting: Medium | Self-starting: Good |




























Technical modifications on version «C»

| Intermediate escape wheel | | | | |
|---|---|---|--|--|
| Old version | Risiko | New version | Improvements | Notes |
| 7222500C30039 | | 7222500C30039 | | |
|  | Black residues within the engagement can cause low amplitude or a stop of the watch. The old version is yellow. |  | 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. |

Differences between version 2500A, 2500B and 2500C

| | 2500A (4 Hz) | 2500B (4 Hz) | 2500C (3.5 Hz) |
|---------------------------|--|--|---|
| Main plate |  ref. 72225001002007 Engraved 2500 |  ref. 7222500B1002007 Engraved 2500B |  ref. 7222500C1002007 Engraved 2500C |
| Barrel bridge |  ref. 72225001004107 |  ref. 7222500B1004107 |  ref. 7222500C1004107 |
| Wheel train bridge |  ref. 72225001004807 |  ref. 7222500B1004807 |  ref. 7222500B1004807 |
| Balance bridge |  ref. 72225001005824 |  ref. 7222500B1005824 |  ref. 7222500C1005824 |
| Automatic bridge |  ref. 72211201203007 |  ref. 7222500B1203007 |  ref. 7222500B1203007 |
| Barrel complete |  ref. 722112020010 |  ref. 7222500B20010 |  ref. 722112020010 |
| Mainspring |  ref. 722112020102 |  ref. 7222500B20102 |  ref. 722112020102 |
| Second wheel |  ref. 722112030027* 96 theeth with 8 arms |  ref. 722112030027* 96 theeth with 8 arms |  ref. 7222500C30027* 105 theeth with 5 arms |
| Intermediate escape wheel |  ref. 722250030039 Pinion with 8 leaves |  ref. 7222500B30039 Pinion with 8 leaves |  ref. 7222500C30039 Pinion with 10 leaves Nick on the upper side of the pivot shank. |

Differences between version 2500A, 2500B and 2500C

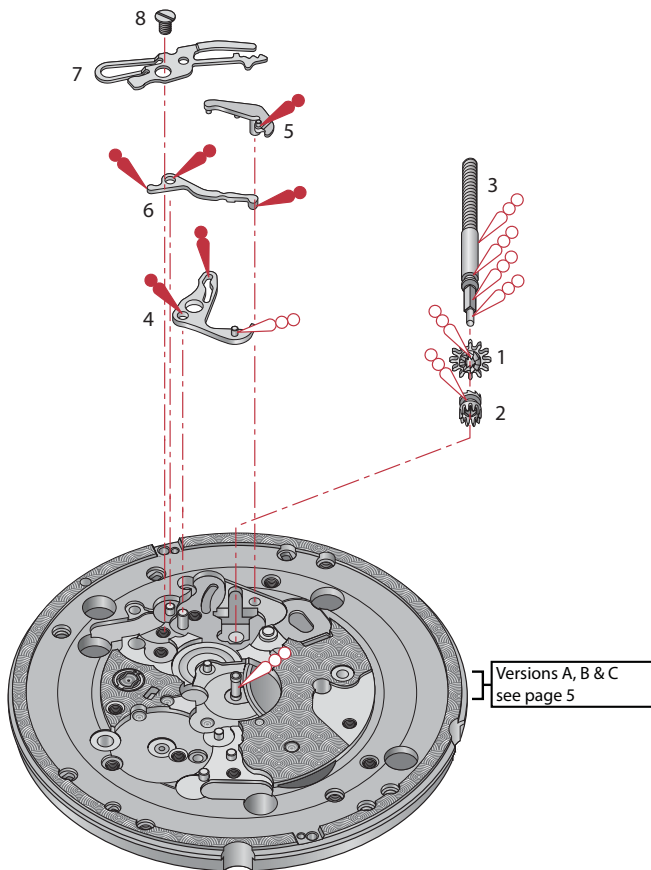
| | 2500A (4 Hz) | 2500B (4 Hz) | 2500C (3.5 Hz) |
|--|---|--|--|
| Co-Axial wheel |  ref. 722250030040 Ø pinion = 1.999 mm |  ref. 7222500B30040 Ø pinion = 1.999 mm |  ref. 7222500C30040 Ø pinion = 2.119 mm |
| Pallet fork |  Old shape ref. 722250040010 |  New shape ref. 7222500B40010 |  New shape ref. 7222500C40010 |
| Balance complete with stud |  ref. 72225004005021 |  ref. 7222500B4005021 |  ref. 7222500C4005021 |
| Inertia | 7.2 (mgcm ²) | 7.2 (mgcm ²) | 9.4 (mgcm ²) |
| Diameter | 8.54 mm | 8.54 mm | 8.70 mm |
| Thickness of balance rim | 0.37 mm | 0.37 mm | 0.45 mm |
| Pivots | 0.08 mm cylindric | 0.08 mm cylindric | 0.07 mm conical |
| Incabloc | 0.09 mm = Ø pivot hole | 0.09 mm = Ø pivot hole | 0.08 mm = Ø pivot hole |
| Rate correction with 1 screw-revolution (On both screws) | 57 seconds | 57 seconds | 86 seconds |
| Stud support |  ref. 722250040200 |  ref. 7222500B40200 |  ref. 7222500B40200 |
| Stop lever |  ref. 722250056070 |  ref. 722250056070 |  ref. 7222500C56070 |
| shock-absorber, upper |  ref. 722112070530 |  ref. 722112070530 |  ref. 7222500C70530 |
| shock-absorber, lower |  ref. 722112070531 |  ref. 722112070531 |  ref. 7222500C70531 |
| In settings, upper |  ref. 722112070640 |  ref. 722112070640 |  ref. 7222500C70640 |
| In settings, lower |  ref. 722112070641 |  ref. 722112070641 |  ref. 7222500C70641 |

Exploded views - Dial side for Calibre 2500

Parts listed in order of assembly

| | |
|-------------|---------------|
| 1 = 31120 | 5 = 5108006 |
| 2 = 31121 | 6 = 51050 |
| 3 = 5101021 | 7 = 51091 |
| 4 = 53022 | 8 = 3503 (1x) |





| | |
|---|------------------------------------|
|  | Moebius SYNT HP-1300 Sans Colorant |
|  | Moebius 9504 |



Exploded views - Movement side for Calibre 2500

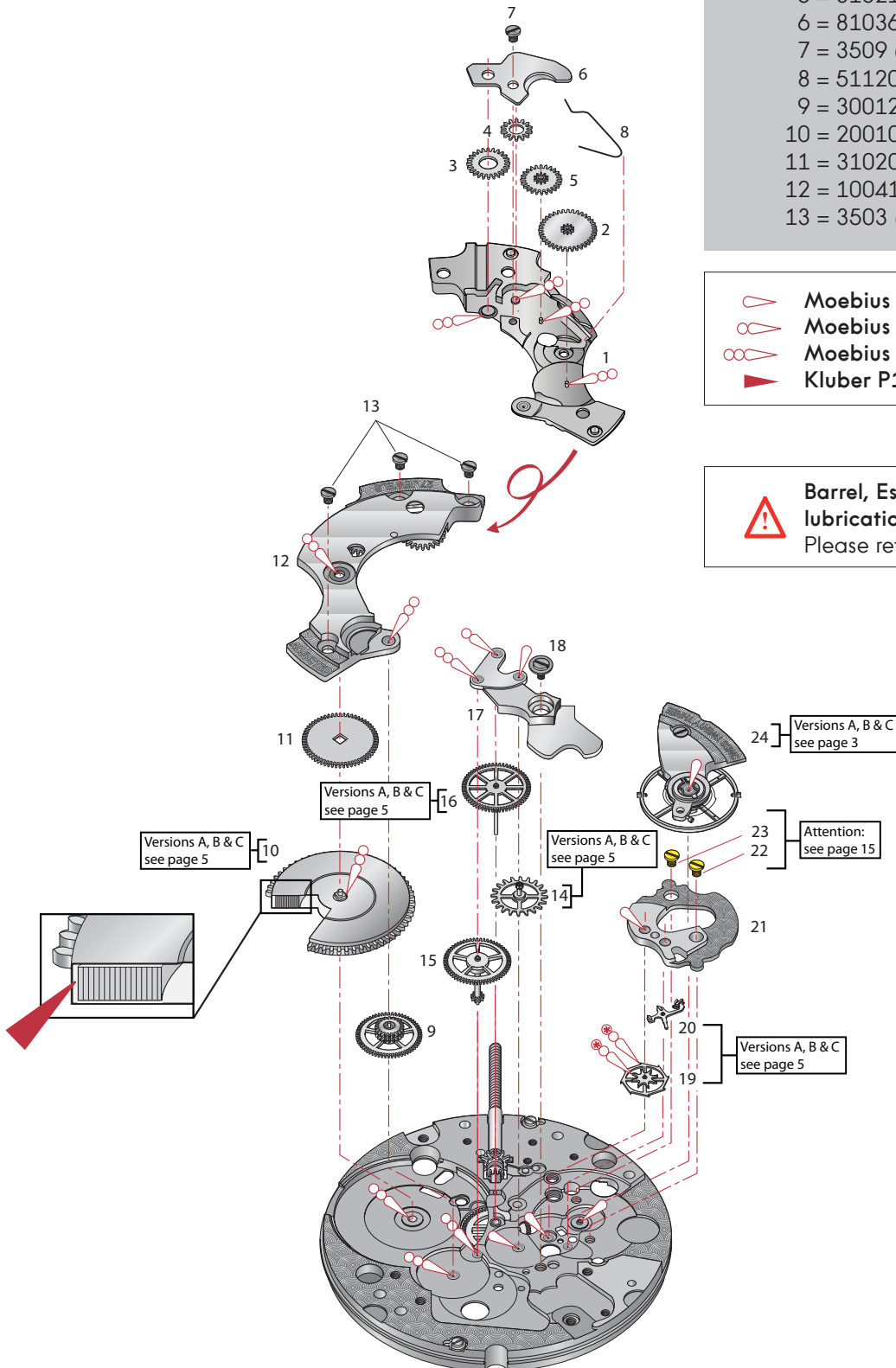
Parts listed in order of assembly

| | |
|----------------|----------------|
| 1 = 1004107 | 14 = 30039 |
| 2 = 32033 | 15 = 30025 |
| 3 = 31023 | 16 = 30027* |
| 4 = 31024 | 17 = 1004807 |
| 5 = 31021 | 18 = 3505 (1x) |
| 6 = 81036 | 19 = 30040 |
| 7 = 3509 (1x) | 20 = 40010 |
| 8 = 51120 | 21 = 1005707 |
| 9 = 30012 | 22 = 3511 (1x) |
| 10 = 20010 | 23 = 3511 (1x) |
| 11 = 31020 | 24 = 1005824 |
| 12 = 1004107 | 4005021 |
| 13 = 3503 (3x) | |

-  Moebius SYNT-A-LUBE 9010
-  Moebius SYNT HP-500
-  Moebius SYNT HP-1300 Sans Colorant
-  Kluber P125



Barrel, Escapement and Shock- absorber lubrication:
Please refer to WI 40



Exploded views - Movement side for Calibre 2500

Parts listed in order of assembly

| | |
|-------------|----------------|
| 1 = 56070 | 8 = 3504 (1x) |
| 2 = 1203007 | 9 = 2201006 |
| 3 = 32032 | 10 = 3507 (3x) |
| 4 = 32031 | 11 = 3503 (3x) |
| 5 = 32037 | 12 = 52041 |
| 6 = 52040 | 13 = 12124 |
| 7 = 1205107 | 14 = 3506 (1x) |



reversing wheel lubrication (32037):
Please refer to WI 40



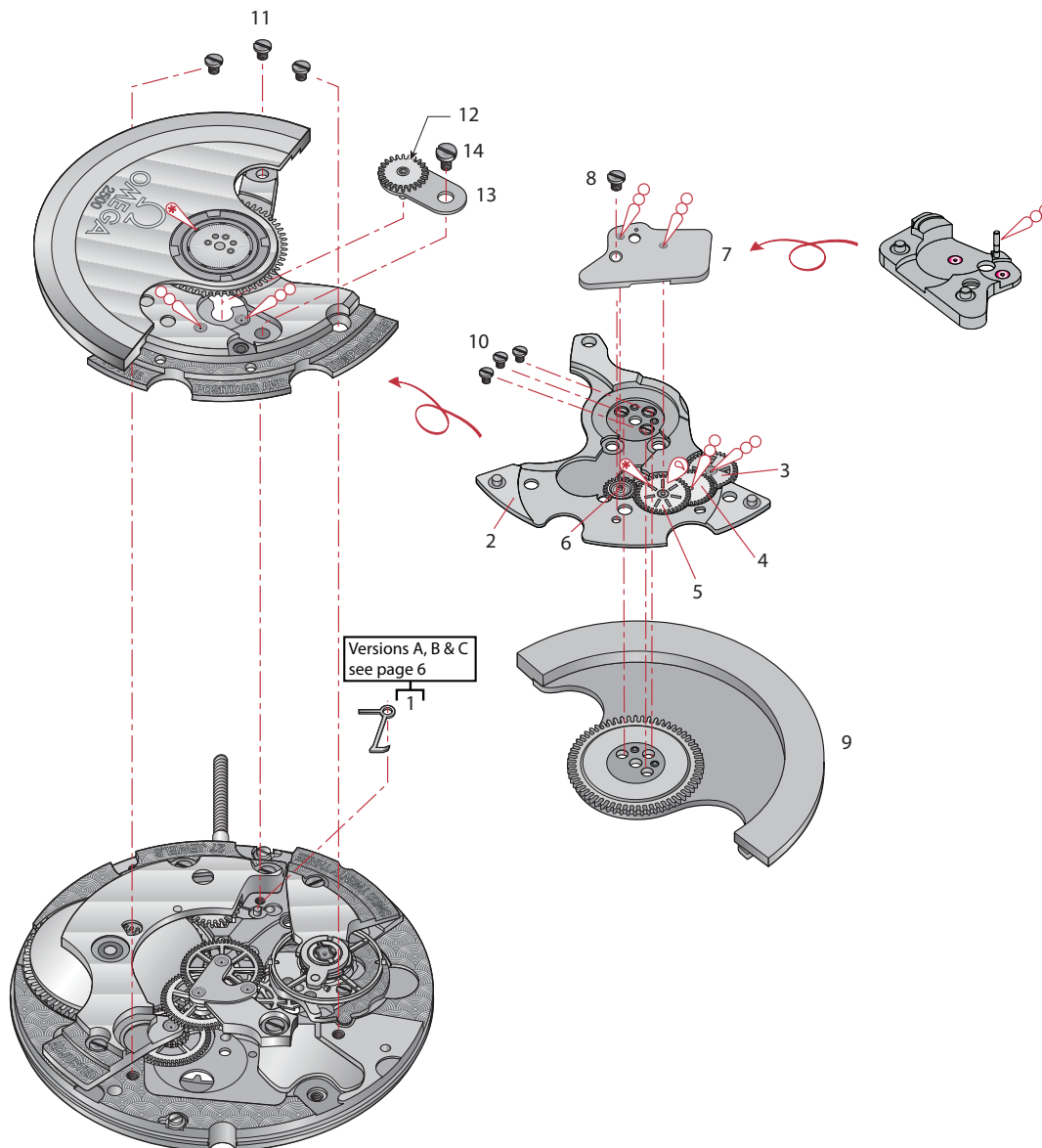
Moebius SYNT-A-LUBE 9010



Moebius SYNT HP-1300 Sans Colorant





Lubeta V105



Parts listed in order of assembly

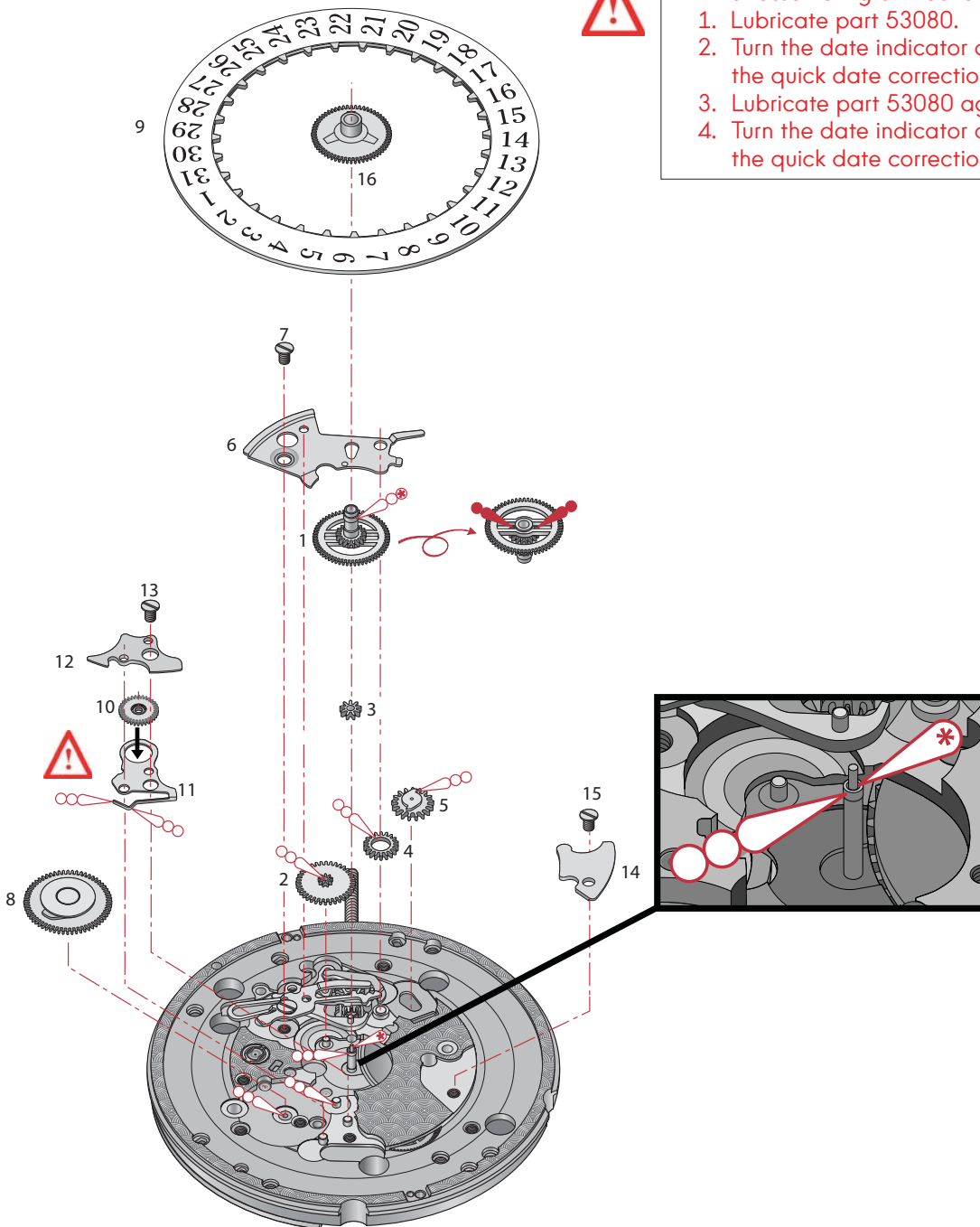
| | |
|---------------|----------------|
| 1 = 31083* | 9 = 91440*** |
| 2 = 31041 | 10 = 33011 |
| 3 = 31100 | 11 = 53080 |
| 4 = 31101 | 12 = 13111 |
| 5 = 53200 | 13 = 3503 (1x) |
| 6 = 10062 | 14 = 53251 |
| 7 = 3503 (1x) | 15 = 3508 (1x) |
| 8 = 33020 | 16 = 31046** |

 Moebius SYNT HP-1300 Sans Colorant
 Moebius 9504

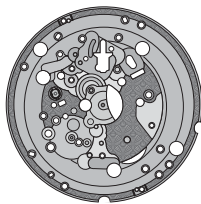

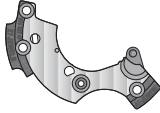








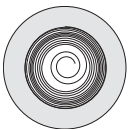


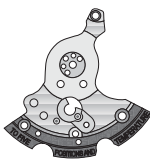





After assembling of mechanism:























1. Lubricate part 53080.
2. Turn the date indicator about ten teeth with the quick date correction.
3. Lubricate part 53080 again.
4. Turn the date indicator about ten teeth with the quick date correction.

























Spare parts list for Calibre 2500

| Main plate, pre-assembled | Version | Reference | Reverser maintaining plate | Version | Reference |
|---|---------|-----------------|--|---------|----------------|
|  | 2500A | 72225001002007 |  | 2500A | 722112012124 |
| | 2500B | 7222500B1002007 | | 2500B | |
| | 2500C | 7222500C1002007 | | 2500C | |
| Barrel bridge, pre-assembled | Version | Reference | Date jumper maintaining plate | Version | Reference |
|  | 2500A | 72225001004107 |  | 2500A | 722112013111 |
| | 2500B | 7222500B1004107 | | 2500B | |
| | 2500C | 7222500C1004107 | | 2500C | |
| Wheel train bridge | Version | Reference | Barrel complete | Version | Reference |
|  | 2500A | 72225001004807 |  | 2500A | 722112020010 |
| | 2500B | 7222500B1004807 | | 2500B | 7222500B20010 |
| | 2500C | | | 2500C | 722112020010 |
| Pallet bridge, pre-assembled | Version | Reference | Barrel drum and cover | Version | Reference |
|  | 2500A | 72225001005707 |  | 2500A | 722112020030 |
| | 2500B | | | 2500B | |
| | 2500C | | | 2500C | |
| Balance bridge, pre-assembled | Version | Reference | Barrel arbor | Version | Reference |
|  | 2500A | 72225001005824 |  | 2500A | 722112020060 |
| | 2500B | 7222500B1005824 | | 2500B | |
| | 2500C | 7222500C1005824 | | 2500C | |
| Minute train bridge | Version | Reference | Mainspring | Version | Reference |
|  | 2500A | 722112010062 |  | 2500A | 722112020102 |
| | 2500B | | | 2500B | 7222500B20102 |
| | 2500C | | | 2500C | 722112020102 |
| Dial fastener | Version | Reference | Oscillating weight, pre-assembled | Version | Reference |
|  | 2500A | 722112010300 |  | 2500A | 72225002201006 |
| | 2500B | | | 2500B | |
| | 2500C | | | 2500C | |
| Upper automatic bridge | Version | Reference | Ball bearing | Version | Reference |
|  | 2500A | 72211201203007 |  | 2500A | 722112022040 |
| | 2500B | 7222500B1203007 | | 2500B | |
| | 2500C | | | 2500C | |
| Lower automatic bridge | Version | Reference | Oscillating weight bolt | Version | Reference |
|  | 2500A | 72211201205107 |  | 2500A | 722112022042 |
| | 2500B | | | 2500B | |
| | 2500C | | | 2500C | |

Spare parts list for Calibre 2500

| Intermediate wheel | Version | Reference | Cannon pinion with driving wheel | Version | Reference |
|---|---------|----------------|---|---------|---------------|
|  | 2500A | 722112030012 |  | 2500A | 722112031083* |
| | 2500B | | | | |
| | 2500C | | | | |
| Third wheel | Version | Reference | Setting wheel | Version | Reference |
|  | 2500A | 722112030025 |  | 2500A | 722112031100 |
| | 2500B | | | | |
| | 2500C | | | | |
| Second wheel | Version | Reference | Intermediate setting wheel | Version | Reference |
|  | 2500A | 722112030027* |  | 2500A | 722112031101 |
| | 2500B | | | | |
| | 2500C | 7222500C30027* | | | |
| Intermediate escape wheel | Version | Reference | Winding pinion | Version | Reference |
|  | 2500A | 722250030039 |  | 2500A | 722112031120 |
| | 2500B | 7222500B30039 | | | |
| | 2500C | 7222500C30039 | | | |
| Co-Axial wheel | Version | Reference | Sliding pinion | Version | Reference |
|  | 2500A | 722250030040 |  | 2500A | 7221120311211 |
| | 2500B | 7222500B30040 | | | |
| | 2500C | 7222500C30040 | | | |
| Ratchet wheel | Version | Reference | Reduction wheel | Version | Reference |
|  | 2500A | 722112031020 |  | 2500A | 722112032031 |
| | 2500B | | | | |
| | 2500C | | | | |
| Intermediate ratchet wheel | Version | Reference | Intermediate reduction wheel | Version | Reference |
|  | 2500A | 722112031021 |  | 2500A | 722112032032 |
| | 2500B | | | | |
| | 2500C | | | | |
| Crown wheel | Version | Reference | Ratchet wheel driving wheel | Version | Reference |
|  | 2500A | 722112031023 |  | 2500A | 722112032033 |
| | 2500B | | | | |
| | 2500C | | | | |
| Intermediate crown wheel | Version | Reference | Reversing wheel | Version | Reference |
|  | 2500A | 722112031024 |  | 2500A | 722112032037 |
| | 2500B | | | | |
| | 2500C | | | | |
| Minute wheel | Version | Reference | Intermediate date wheel | Version | Reference |
|  | 2500A | 722112031041 |  | 2500A | 722112033011 |
| | 2500B | | | | |
| | 2500C | | | | |
| Hour wheel | Version | Reference | Date indicator driving wheel | Version | Reference |
|  | 2500A | 722112031046** |  | 2500A | 722112033020 |
| | 2500B | | | | |
| | 2500C | | | | |

Spare parts list for Calibre 2500

| Pallet fork | Version | Reference | Date jumper | Version | Reference |
|---|---------|-----------------|---|---------|--------------|
|  | 2500A | 722250040010 |  | 2500A | 722112053080 |
| | 2500B | 7222500B40010 | | 2500B | |
| | 2500C | 7222500C40010 | | 2500C | |
| Balance complete with stud | Version | Reference | Date corrector | Version | Reference |
|  | 2500A | 72225004005021 |  | 2500A | 722112053200 |
| | 2500B | 7222500B4005021 | | 2500B | |
| | 2500C | 7222500C4005021 | | 2500C | |
| Stud support | Version | Reference | Additional indicator maintaining small plate | Version | Reference |
|  | 2500A | 722250040200 |  | 2500A | 722112053251 |
| | 2500B | 7222500B40200 | | 2500B | |
| | 2500C | | | 2500C | |
| Winding stem | Version | Reference | Stop lever | Version | Reference |
|  | 2500A | 72211205101021 |  | 2500A | 722250056070 |
| | 2500B | | | 2500B | |
| | 2500C | | | 2500C | |
| Yoke | Version | Reference | Shock-absorber, upper | Version | Reference |
|  | 2500A | 722112051050 |  | 2500A | 722112070530 |
| | 2500B | | | 2500B | |
| | 2500C | | | 2500C | |
| Setting lever | Version | Reference | Shock-absorber, lower | Version | Reference |
|  | 2500A | 72211205108006 |  | 2500A | 722112070531 |
| | 2500B | | | 2500B | |
| | 2500C | | | 2500C | |
| Setting lever jumper | Version | Reference | In settings, upper | Version | Reference |
|  | 2500A | 722112051091 |  | 2500A | 722112070640 |
| | 2500B | | | 2500B | |
| | 2500C | | | 2500C | |
| Click | Version | Reference | In settings, lower | Version | Reference |
|  | 2500A | 722112051120 |  | 2500A | 722112070641 |
| | 2500B | | | 2500B | |
| | 2500C | | | 2500C | |
| Reverser | Version | Reference | Cap jewels, upper | Version | Reference |
|  | 2500A | 722112052040 |  | 2500A | 722112070900 |
| | 2500B | | | 2500B | |
| | 2500C | | | 2500C | |
| Auxiliary reverser | Version | Reference | Cap jewels, lower | Version | Reference |
|  | 2500A | 722112052041 |  | 2500A | 722112070901 |
| | 2500B | | | 2500B | |
| | 2500C | | | 2500C | |
| Date corrector operating lever | Version | Reference | Incabloc-spring, upper | Version | Reference |
|  | 2500A | 722112053022 |  | 2500A | 722112078004 |
| | 2500B | | | 2500B | |
| | 2500C | | | 2500C | |

Spare parts list for Calibre 2500


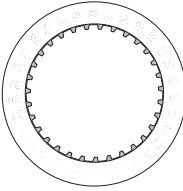





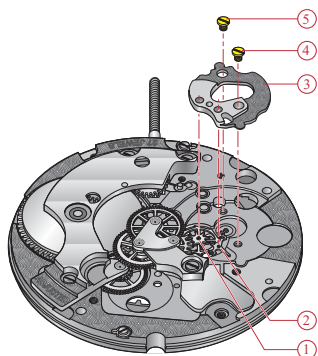
| Incabloc-spring, lower | Version | Reference | Screw for automatic device lower bridge | Version | Reference |
|---|---------|---|---|---------|-------------|
|  | 2500A | 722112078005 |  | 2500A | 72211203504 |
| | 2500B | | | 2500B | |
| | 2500C | | | 2500C | |
| Centre tube | Version | Reference | Screw for train wheel bridge | Version | Reference |
|  | 2500A | 722112080400 |  | 2500A | 72211203505 |
| | 2500B | | | 2500B | |
| | 2500C | | | 2500C | |
| Click plate | Version | Reference | Screw for reverser maintaining plate | Version | Reference |
|  | 2500A | 722112081036 |  | 2500A | 72211203506 |
| | 2500B | | | 2500B | |
| | 2500C | | | 2500C | |
| Date indicator | Version | Reference | Screw for ball bearing | Version | Reference |
|  | 2500A | 722250091440A06 |  | 2500A | 72211203507 |
| | 2500B | 722112091440*** 722250091440*** | | 2500B | |
| | 2500C | 722112091440*** 722250091440*** 7222500C9144*** | | 2500C | |
| Screw for barrel bridge | Version | Reference | Screw for additional indicator maintaining plate | Version | Reference |
|  | 2500A | 72211203503 |  | 2500A | 72211203508 |
| | 2500B | | | 2500B | |
| | 2500C | | | 2500C | |
| Screw for setting lever jumper | Version | Reference | Screw for click plate | Version | Reference |
|  | 2500A | 72211203503 |  | 2500A | 72211203509 |
| | 2500B | | | 2500B | |
| | 2500C | | | 2500C | |
| Screw for date jumper maintaining plate | Version | Reference | Screw for casing clamp | Version | Reference |
|  | 2500A | 72211203503 |  | 2500A | 72211203510 |
| | 2500B | | | 2500B | |
| | 2500C | | | 2500C | |
| Screw for balance bridge | Version | Reference | Screw for pallet bridge | Version | Reference |
|  | 2500A | 72211203503 |  | 2500A | 72225003511 |
| | 2500B | | | 2500B | |
| | 2500C | | | 2500C | |
| Screw for minute train bridge | Version | Reference | Screw for stud | Version | Reference |
|  | 2500A | 72211203503 |  | 2500A | 72225003512 |
| | 2500B | | | 2500B | |
| | 2500C | | | 2500C | |
| Screw for automatic device framework | Version | Reference | | | |
|  | 2500A | 72211203503 | | | |
| | 2500B | | | | |
| | 2500C | | | | |

Fig. 1.0



1.0 Assembling of the escapement system

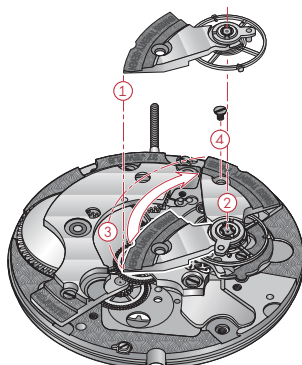
Key points

After assembling, the escapement functions must be checked accurately with the corresponding tool.

The pallet fork bridge holds the coaxial wheel in place as well as the pallet fork. The assembly order below must be respected for the escapement to function correctly:

1. Fit the coaxial wheel.
2. Fit the pallet fork.
3. Fit the pallet fork bridge and check that the respective pivots are firmly engaged in the housings.
4. **The assembly order for the two pallet fork bridge screws must be respected.** To position the pallet fork bridge, screw (4) must be screwed in first.
5. The second screw (5) ensures that the bridge is held firmly in place.

Fig. 2.0

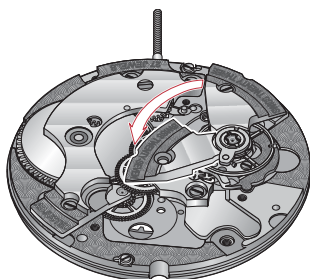


2.0 Balance bridge installation

As the table roller is under the pallet fork, the balance must be assembled carefully.

1. Position the balance bridge with its balance, the position of the bridge must be in a 90° angle to its normal place.
2. Check the correct balance position. The pivots must be accurately fit into the shock-absorbers.
3. Turn the bridge carefully to its normal position.
4. Tighten the bridge screw.

Fig. 2.1



2.1 Disassembling of the balance bridge

The balance bridge must be disassembled by removing the parts in the opposite order of procedure 2.0.

To avoid any risk of damaging the balance, the bridge has to be turned 90° degrees in the direction of the arrow. In this position the bridge may be disassembled without any risk.

3.0 Runners for hand setting and hand setting force

| Description | Movement holder for hand setting | No. of runners for hand setting | Minimum force (N) | Maximum force (N) | Support (Stein) |
|-------------|----------------------------------|---------------------------------|-------------------|-------------------|-----------------|
| Hour hand | 507 0017 | 5 | 10 | 55 | no |
| Minute hand | | 2 | 10 | 55 | no |
| Second hand | | 1 | 10 | 30 | yes |

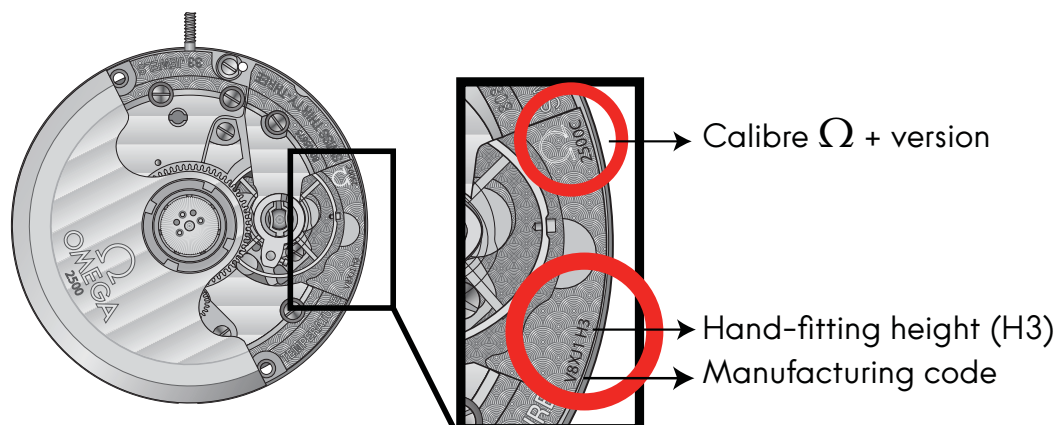
4.0 Hand height

A star (*) next to a supply reference in the parts list means that several hand heights exist.
E.g.: 722112031083*.

Movement spare parts should be ordered as follows:
E.g.: 7221120310833.











The final figure indicates the height of the wheel.

Fig. 4.0



5.0 Epilame coating

5.1 Components that should not be epilam-treated after cleaning

| Description | Reference | |
|-------------------------------------|--------------------------------|--|
| Balance assembled on balance bridge | Ref. 40055 + Ref. 10058° |  |
| Balance complete | Ref. 40055 |  |
| Pallet fork | Ref. 40010 |  |
| In settings, upper * | Ref. 70640 |  |
| In settings, lower * | Ref. 70641 |  |
| Pallet bridge | Ref. 1005707 |  |
| Barrel** | Ref. 20010 |  |
| Mainspring | Ref. 20102 |  |
| Reversing wheel | Ref. 32037 |   |

* Do not treat the shock-absorber settings with epilam; the cap jewels should however be treated.

** Do not treat the complete barrel with epilam, only the drum, cover and arbour separately.

For additional information see Working Instructions Nr. 27.

6.0 Instantaneous rate

6.1 Check of the instantaneous rate

Demagnetise the movement before the checks according to Working Instructions No 34.

The timing of the movement has to be according to the Omega timing specification list.

Please consult Working Instructions 5 and 28 for instruction and tolerances.

Measure particularities according to instrument type used

| Instrument type | Co-Axial Version 4 Hz | Co-Axial Version 3,5 Hz | Comments |
|---|-----------------------------|----------------------------------|---|
| Old Witschi measuring instrument - Watch Expert (red case) - Wicomètre Professionnel - Chronoscope M1 (old version) | Lift angle to be set at 30° | Lift angle to be set at 38° | Version 3.5 Hz: The frequency (25'200 A/h), has to be set manually in order to have the rate correctly indicated. |
| | All measures good | Amplitude not correctly measured | |
| Neue Witschi-Geräte - Watch Expert II (white case) - Chronoscope M1 (updated Version) | Lift angle to be set at 38° | Lift angle to be set at 38° | Test mode: «Spe1» must be set! |
| | All measures good | All measures good | |

Fig. 7.0

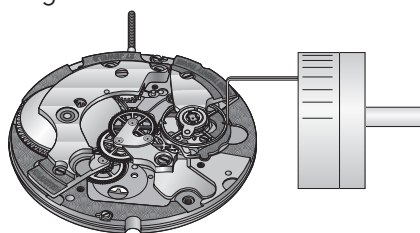
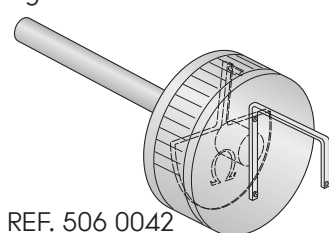
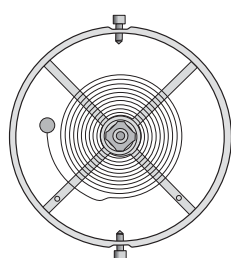


Fig. 7.1



REF. 506 0042

Fig. 7.2



7.0 Rate adjustment

A special timing key tool (see Figure 7.1) has been developed to adjust the rate even when the movement is cased in. The rate can be corrected according to the table below by turning the two balance screws a complete turn. A scale is found on the outside of the tool. A division corresponds to a rate correction of 1 second. (according to the table below). One screw is located between two arms on the balance which are specially marked by points (see Figure 7.2) for easy identification of each screw during the correction process.

Balance

The annular balance has two adjusting micro-screws. A slow rate deviation is corrected by tightening the micro-screws (towards the centre of the balance), which reduces its moment of inertia and makes it run faster. A fast rate deviation is corrected by loosening the micro-screws (away from the centre of the balance). This increases its moment of inertia and makes it run slower.

Important:

The rate is always corrected using **both adjustment screws** to prevent an unbalance of the balance.

| Version A | Version B |
|--|--|
| One correction revolution = 52 seconds | One correction revolution = 86 seconds |
| One graduation = 1 second | One graduation = 1.5 second |

Modifications of Technical Guide for Calibre 2500

| Technical Guide versions | | | | |
|--------------------------|------------|-----------|----------|--------|
| Date of first edition: | 01.07.1999 | Version A | Made by: | Pelrom |
| Date of second edition: | 01.05.2001 | Version B | | |
| Date of third edition: | 07.07.2004 | Version C | | |
| Date of last edition: | 04.06.2009 | Version D | | Rendav |

| Modifications of Technical Guide version B | |
|--|---|
| Old (version A) | New (version B) |
| Moebius Microgliss D5 | Moebius SYNT-HP - 1300 |
| Moebius 9501 | Moebius 9504 |
| | Introduction of a new oil (Moebius SYNT-HP-500) |

| Modifications of Technical Guide version D | |
|--|--|
| Old (version C) | New (version D) |
| | Exploded views updated Lubrication updated Miscellaneous information |