

Omega 3313,3313A Movement Parts (1)

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Technical Guide

TG-19-C-017-E

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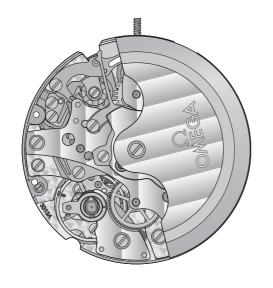
Date: 27.08.2008

Modifications: see last page

CALIBRE 3313

	Version A	Version B
12''' Ø 27 mm		
Height on movement	6.85	mm
Power reserve Number of jewels Frequency	52 3 4 Hz (28'	7

VINTAGE RESTORATIONS





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:

Exchange	s		with serial no
Version A	Chronograph bridge (ref. 7223313A1504018)	For exchanges always sent to Engravings at Omega within	9

Exchange	s		with serial no
Version A + B	Balance bridge (ref. 7223313A1005818) (ref. 7223313B1005818)	For exchanges always sent to Engravings at Omega within	9

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 ≤ \$ 0.50 mm	AGE RESTORA	[O N S 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:

Hand fitting

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

Movement holder for hand fitting Hand fitting tool kit	507 0001 507 0011
Movement Mainspring winder Timing key Movement holder Tool for checking the escapement	Reference 502 150 0009 502 200 0501 506 0001
functions	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

Reference

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		722330355040		
	The column wheel control can bend at the weakest place (see arrow). Consequence: start/stop function does not work.		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 modifi ed!

	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		7223303A55048		
	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.		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.

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Technical modifications on version «A» and «B»

	Rocking bar				
Old version	Risk	New version	Improvements	Notes	
722330351052		722330351052			
	The setting lever might bend due pressure on stem. Consequence: Malfunction of time setting function.		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		7223313B30039		
	Black residues within the engagement can cause low amplitude or a stop of the watch. The old version is yellow.	NO.	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.

VINTAGE RESTORATIONS

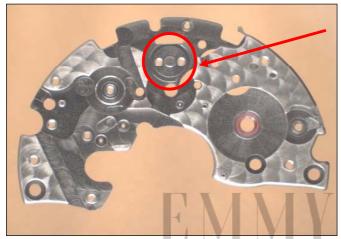
Customer Service lubrication of stud for crown wheel (31.023) and the 3 intermediate driving wheels for ratchet wheel (32.083):

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:

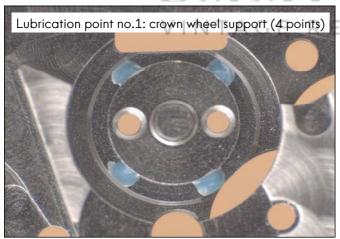
- On the crown wheel stud and the stud for the three ratchets intermediate driving wheels during a service.

Lubrication of stud for crown wheel (Moebius 9504)

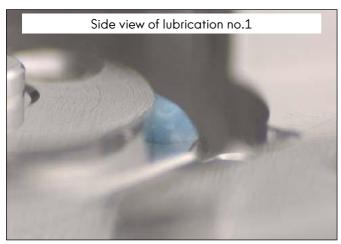


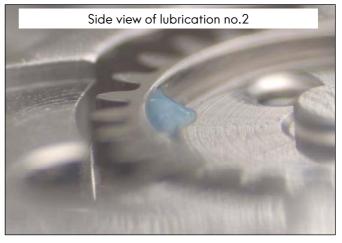
Stud for crown wheel









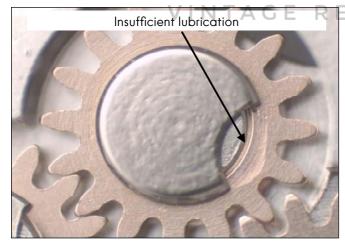


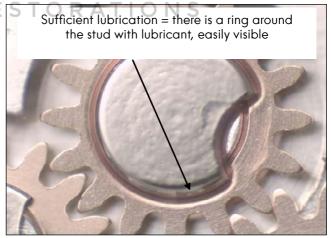


Lubrication of the 3 intermediate driving wheels for ratchtet wheel (HP $1300\ Sans\ Colorant)$



WATCH



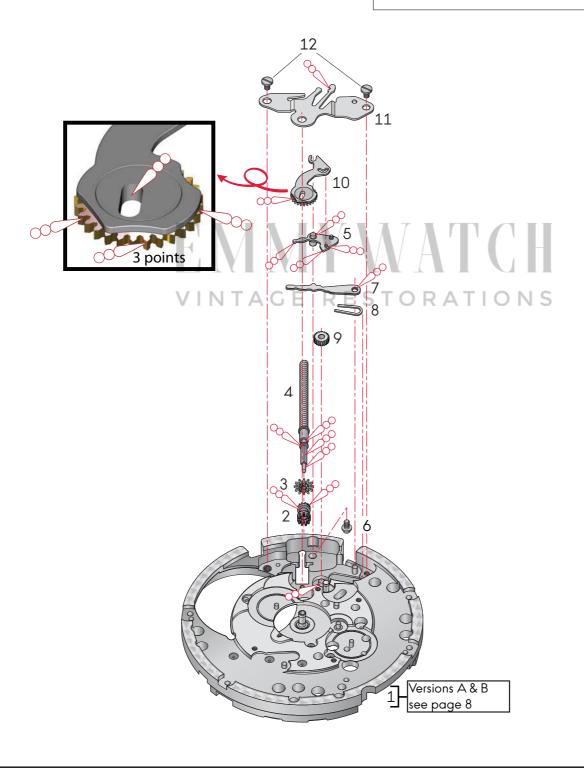


	3313A (4 Hz)	3313B (4 Hz)
Main plate		
	Ref. 722331310020 Ø Hole for dial fastener: 0.80 mm	Ref. 7223313B10020 Ø Hole for dial fastener: 1.00 mm
Balance bridge, complete	Ref. 7223313A1005818	Ref. 7223313B1005818
Intermediate escape wheel		
Co-Axial wheel	Ref. 7223313A30039 Ref. 7222500B30040	Ref. 7223313B30039 Ref. 7222500C30040
Pallet fork Balance, complete	Ref. 7222500B40010	Ref. 7222500C40010
VIN	Ref. 722331340055 Cylindrical pivots Ø 0.08 mm	Ref. 7223313B40055 Conical pivots Ø 0.07 mm
Schock-absorber, upper	6	6
	Ref. 722330332025 Jewel hole Ø 0.09 mm Nickel-plated	Ref. 7223313B32027 Jewel hole Ø 0.08 mm Gold-plated
Schock-absorber, lower	ō	<u> </u>
	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

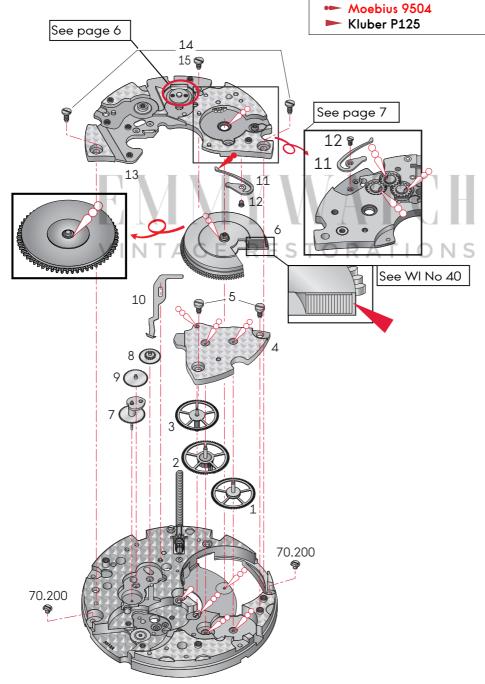


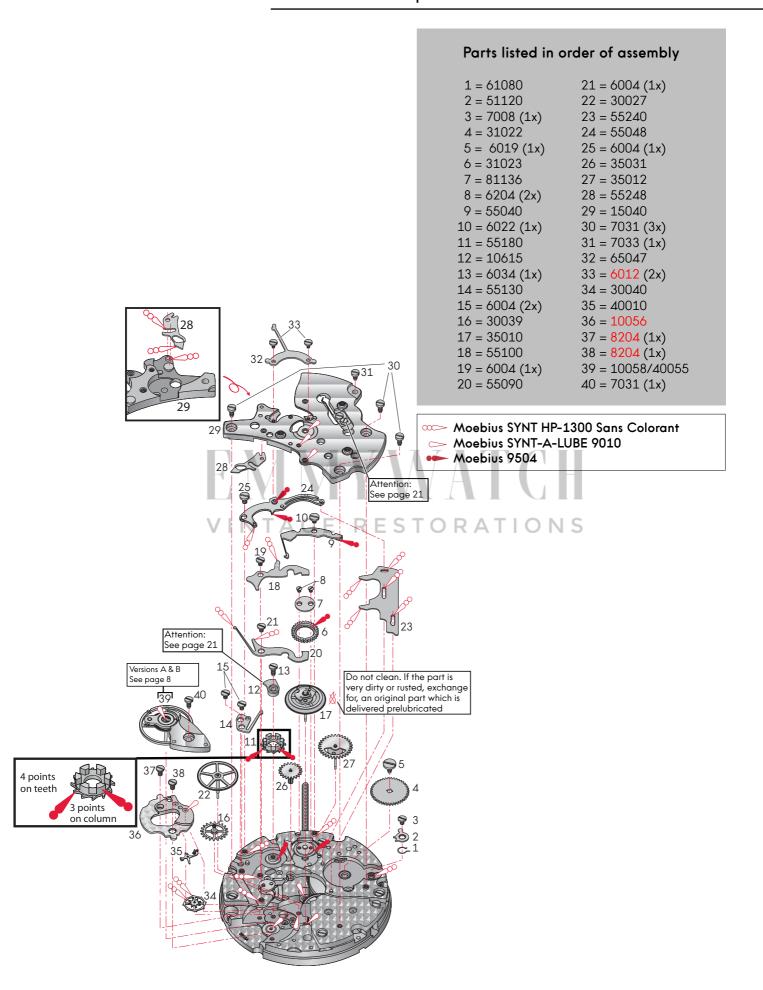
1 = 10020 7 = 51050 2 = 31121 8 = 61100 3 = 31120 9 = 33082 4 = 51010 10 = 51052 5 = 51083 11 = 51090 6 = 6407 (1x) 12 = 7035 (2x)

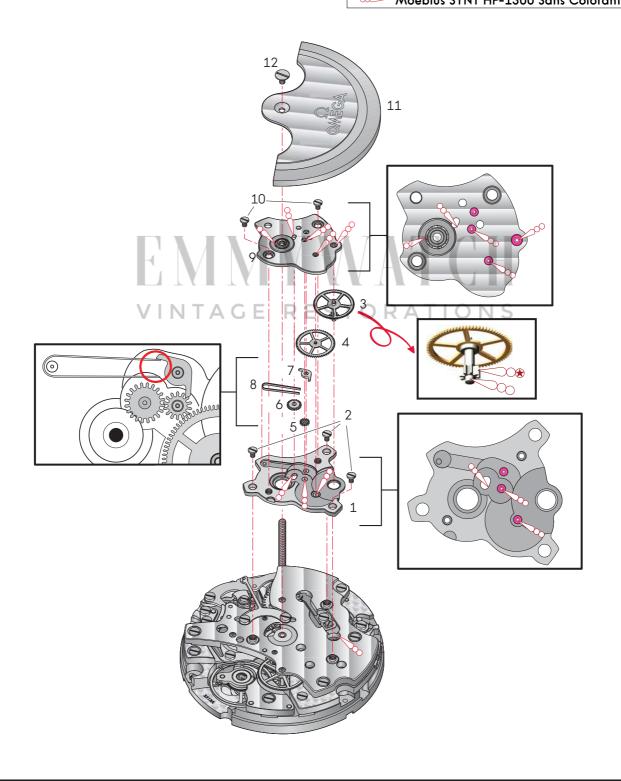
Moebius SYNT HP-1300 Sans Colorant



 ∞ Moebius SYNT HP-1300 Sans Colorant



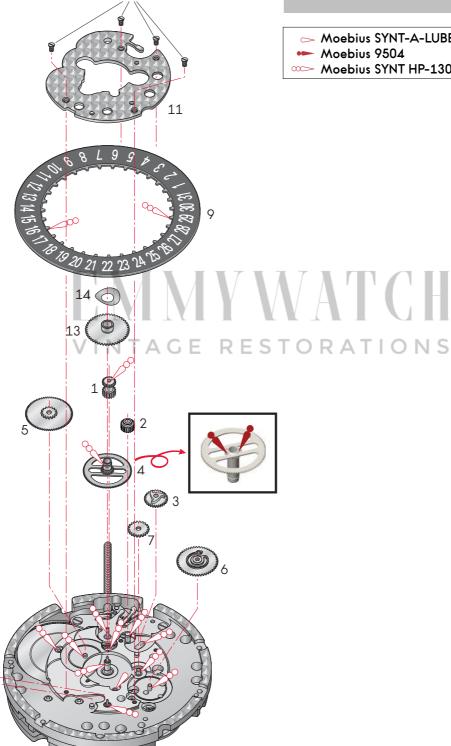




1 = 31102 8 = 530802 = 330839 = 91440 3 = 5320010 = 63030 4 = 31080 11 = 13105 12 = 6210 (4x)5 = 31041S2 6 = 33020 13 = 31046 7 = 3301114 = 66220

→ Moebius SYNT-A-LUBE 9010

∞ Moebius SYNT HP-1300 Sans Colorant



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