

CALIBRE 8601 - 8611

	Version A
13 ^{'''} Ø 29.00 mm	
Height on movement 8601	7.00 mm
Height on movement 8611	7.10 mm
Power reserve	55 h
Number of jewels	39
Frequency	3.5 Hz (25'200 A/h)



Omega Co-axial movement, COSC-certified chronometer, self-winding, date, month and seconds at the centre. Instantaneous year jumper, functioning without manual date and month correction between 1 March and 28 February of the following year. Exclusive luxury decoration: Arabesque Geneva waves, red engravings, black components, twin barrel in series, one non-automatic barrel (without sliding clamp), one automatic barrel with anti-wear coating. Co-axial escapement wheel with 3-levels, impulse wheel, impulse pinion and drive pinion. Omega sprung-balance system without index, four white gold regulating screws. Adjusting mechanism for balance end-shake. Si14 balance-spring (silicon) recognisable by the unique engraving on the balance arm. New generation of shock-absorbers. Oscillating weight pivoting on plain bearing.



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General information for Calibre 8601 / 8611

Complete balance bridge (Ref. 1005818*)
 Chronometer balance bridges are not available
 (see CS-Info. Calibre No. 33).

Hand fitting height
 There are several versions of components marked with an asterisk
 (height, colour).

Measuring instruments depending on operation types

Operation	Minimum equipment required	Comments
Full or partial maintenance service Co-Axial 3.5 Hz	- Watch Expert II + III (white case) - Chronoscope M1 (updated version)	
Rate adjustment on new watches: (Co-Axial 3.5 Hz)	- Watch Expert (red case) - Wicamètre Professionnel - Chronoscope M1 (former version)	Important : the amplitude will not be indicated precisely. This is acceptable for the rate adjustment only!



Instantaneous rate
 Demagnetise the movement prior to checks according to
 Working Instruction No 34.

Tightening and untightening torques according to screw thread

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



Hand fitting
 To fit the hands, the movement must be held in a movement
 holder that supports the seconds wheel jewel.

Winding on Cyclotest equipment
 Only Cyclotest 4t/min equipment is permitted.

Lubricants	Ref.
 Moebius SYNT-A-LUBE 9010 (2ml)	504 200 0001
 Moebius SYNT HP-HP-500	504 5012
 Moebius SYNT HP-1300 Sans Colorant (HP-1300)	504 5013
 Moebius 9504	504 5014
 Kluber P125	504 100 0007
* An asterisk sign means: small quantity of lubricant required	

Cleaning and epilam coating
 Consult Working Instruction No. 27 for information on cleaning
 movement parts and coating them with epilam.

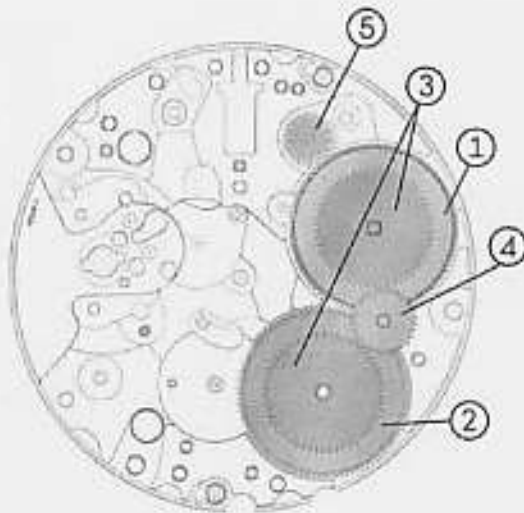
Operation symbols

-  Lubrication
-  Check
-  Important



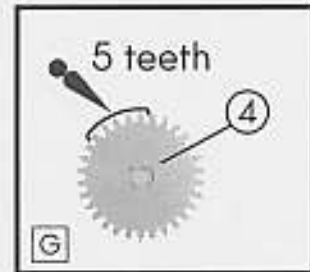
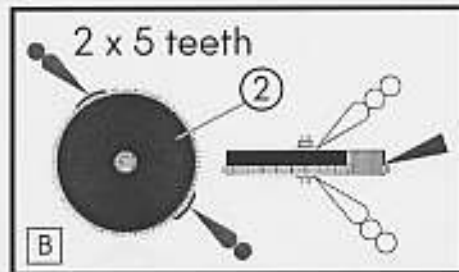
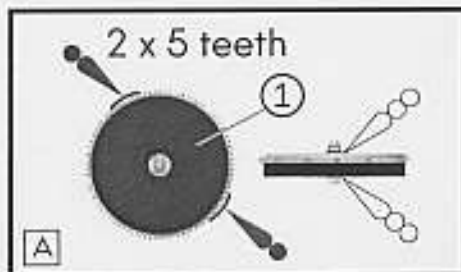
Fitting stages for Calibre 8601 / 8611











- Moebius 9504
- ▲ Klüber P125
- ◻ Moebius SYNT HP-1300 Sans Colorant

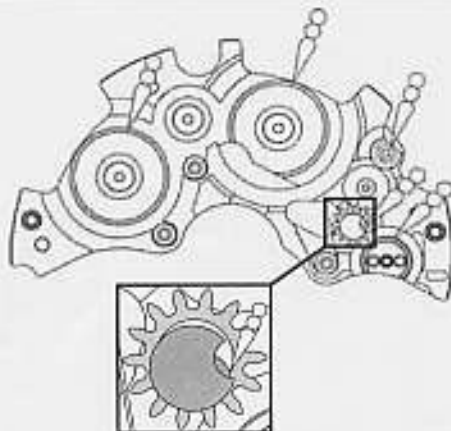


Barrel fitting

- A Lubricate barrel ①.
- B Lubricate barrel ②.
- C. Fit the complete barrel one, grey cover (mainspring with bridle) ①.
- D. Fit the complete barrel two, black cover (slipping spring) ②.
- E. Fit the two ratchet wheels ③.
- F. Fit the transmission wheel for ratchet ④.
- G Lubricate the teeth of transmission wheel for ratchet wheels.
- H. Fit the manual winding reduction wheel ⑤.



Movement holder	Barrel one, complete	Barrel two, complete	Ratchet wheels	Transmission for ratchet wheels	Reduction wheel for manual winding
Ref. 506 0058	①	②	③	④	⑤
	Ref. 20010	Ref. 20011	Ref. 31020	Ref. 3208319	Ref. 32029
					
					

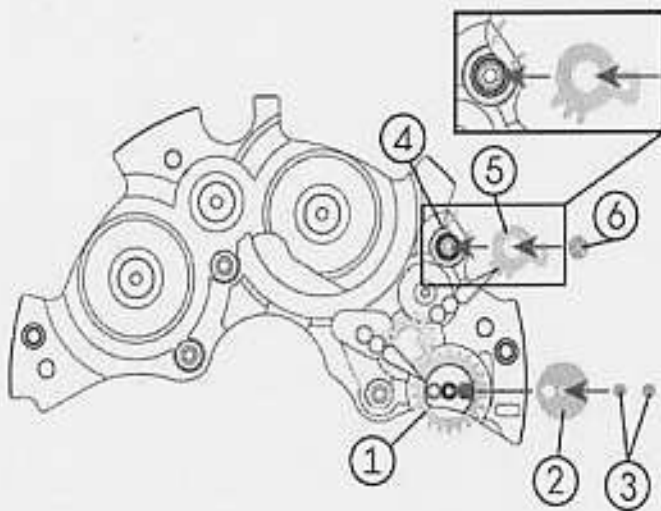


Barrel bridge lubrication

- A. Lubricate the barrel bridge.

Fitting stages for Calibre 8601 / 8611

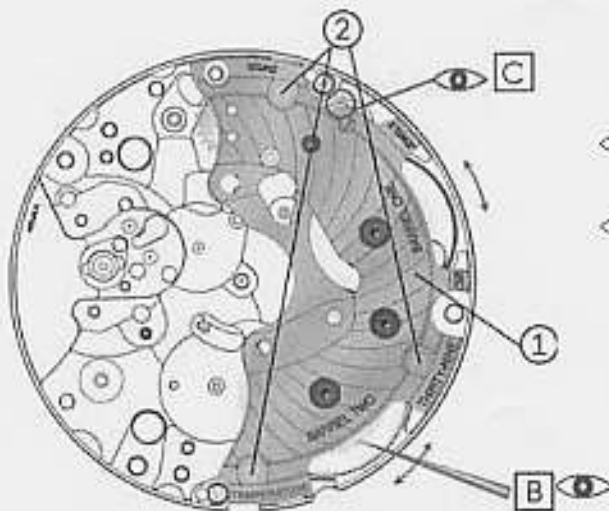
Moebius SYNT HP-1300 Sans Colorant



Barrel bridge pre-assembly

- A. Fit the crown wheel ①.
- B. Lubricate the crown wheel.
- C. Fit the crown core ②.
- D. Tighten the two screws ③.
- E. Fit the click spring ④.
- F. Fit the click ⑤.
- G. Fit the screw ⑥.
- H. Lubricate the click teeth ⑤.

Support for barrel bridge assembly	Crown wheel	Crown wheel core	Crown wheel core screw	Click spring	Click	Click screw
Ref. 506 0057	①	②	③	④	⑤	⑥
	Ref. 31023	Ref. 61136	Ref. 3545	Ref. 61080	Ref. 51120	Ref. 3544
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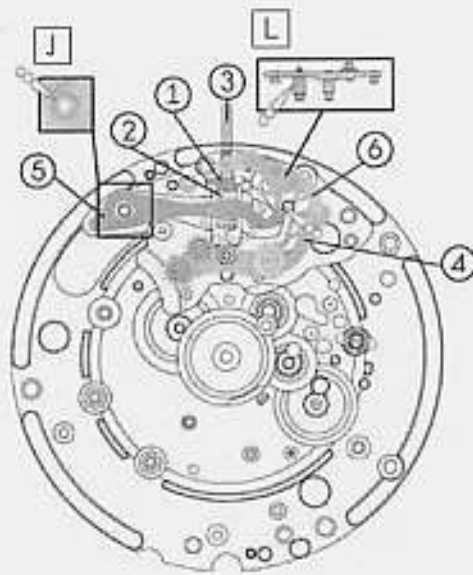


Barrel bridge assembly

- A. Fit the barrel bridge ①.
- B. Check barrel clearance (tip or brass tweezers).
- C. Check click function.
- D. Tighten the three screws ②.

Movement holder	Barrel bridge, pre-assembled	Screw for barrel bridge
Ref. 506 0058	①	②
	Ref. 1004118	Ref. 3534
	-----	▣

Fitting stages for Calibre 8601 / 8611



● Maebius 9504

☞ Maebius SYNT HP-1300 Sans Colorant

Mechanism 1 assembly

A. Fit the winding pinion ①.

☞ B. Lubricate the winding pinion ①.

C. Fit the sliding pinion ②.

☞ D. Lubricate the sliding pinion ②.

☞ E. Lubricate the winding stem ③.

F. Place the winding stem in position ③.

☞ G. Lubricate the pre-assembled operating lever for date corrector stud ④.

☞ H. Lubricate the pre-assembled operating lever for date corrector ④.

I. Fit the pre-assembled operating lever for date corrector ④.

☞ J. Lubricate the yoke stud ⑤.

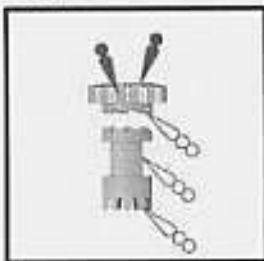
K. Fit the yoke ⑤.

☞ L. Lubricate the fulcrum pin and stop lever control pin on the pre-assembled setting lever ⑥.

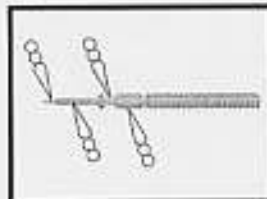
M. Fit the pre-assembled setting lever ⑥.

☞ N. Lubricate the pre-assembled setting lever ⑥ and yoke ⑤.

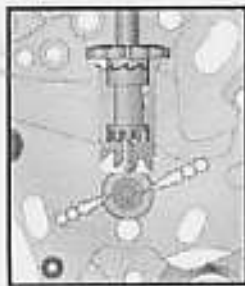
B D



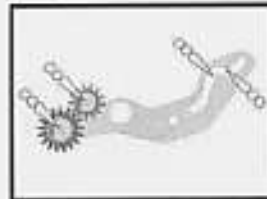
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G



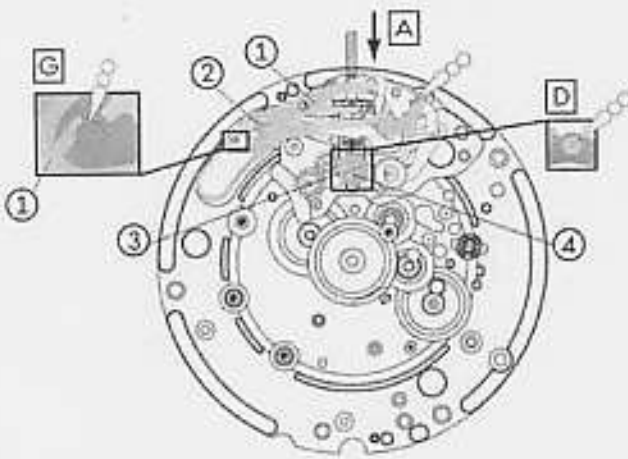
H



Movement holder	Winding pinion	Sliding pinion	Winding stem	Operating lever for date corrector	Yoke	Setting lever
	①	②	③	④	⑤	⑥
Ref. 506 0058	Ref. 31120	Ref. 31121	Ref. 51010	Ref. 6504006	Ref. 51050	Ref. 5108018

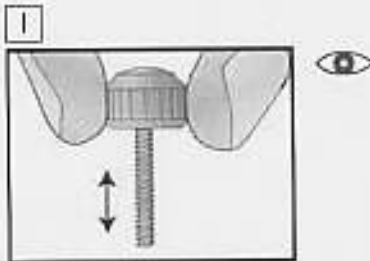
Fitting stages for Calibre 8601 / 8611

Moebius SYNT HP-1300 Sans Colorant

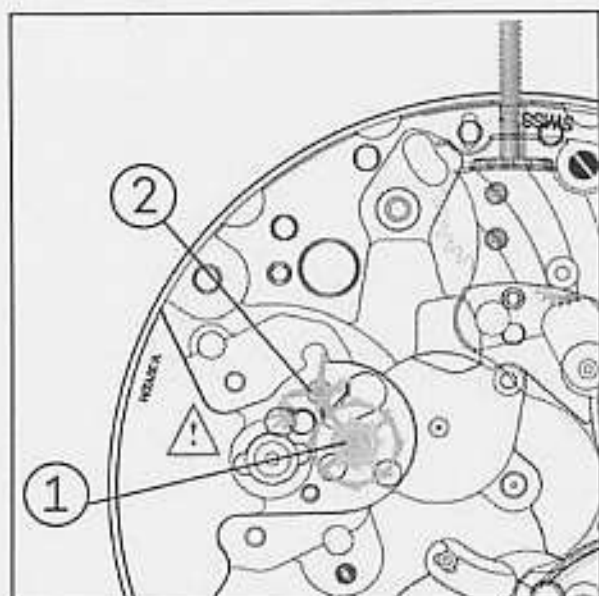


Mechanism 2 assembly

- Push the stem.
- B. Fit the combined setting lever jumper ①.
- C. Tighten the screw ②.
- Lubricate the stud of the intermediate corrector wheel ③.
- E. Fit the intermediate corrector wheel ④.
- F. Tighten the screw ④.
- Lubricate the combined setting lever jumper spring and the yoke stud.
- H. Lubricate the combined setting lever jumper spring and the pre-assembled setting lever stud.
- Push and pull the winding stem to check the stem positions 1, 2 and 3.



Movement holder	Setting lever jumper	Screw for setting lever jumper	Intermediate corrector wheel	Screw for intermediate corrector wheel
Ref. 506 0058	①	②	③	④
	Ref. 51091	Ref. 3540	Ref. 36051	Ref. 3539

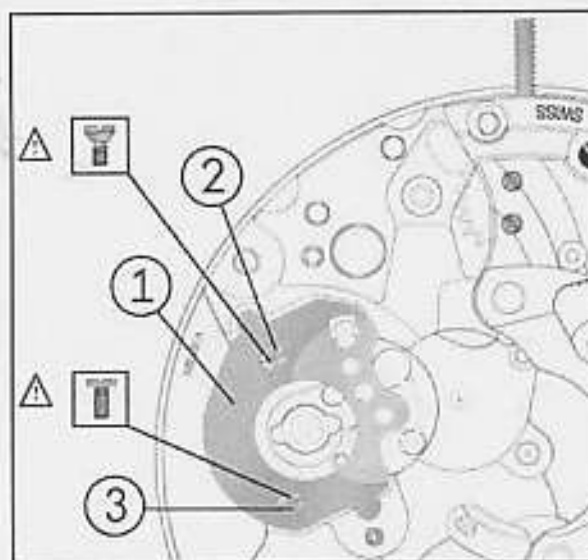


Pallet fork and Co-Axial wheel fitting

- A. Fit and position the co-axial wheel ①.
- B. Fit and position the pallet fork ②.

⚠ Never touch the inside of the fork

Movement holder	Co-axial wheel	Pallet fork
Ref. 506 0058	①	②
	Ref. 3004019	Ref. 40010
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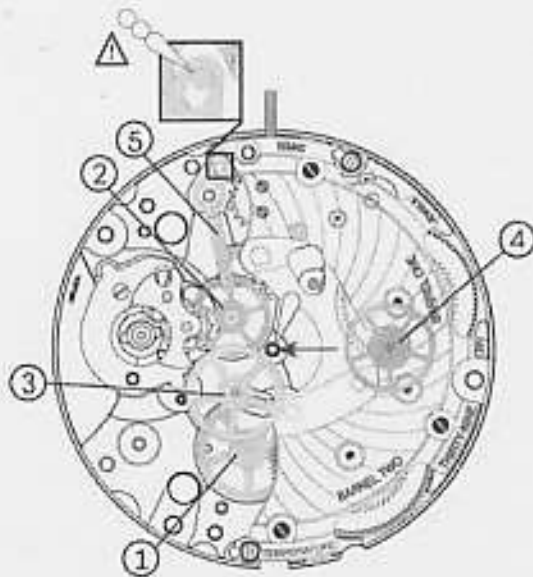


Pallet fork bridge assembly

- A. Fit and position the pre-assembled pallet fork bridge ①.
- ⚠ B. Tighten the screw (conical head) ② which holds the pallet fork bridge in position.
- ⚠ C. Tighten the screw (flat head) ③ which maintains the pallet fork bridge in position.

Movement holder	Pallet fork bridge, pre-assembled	Pallet fork bridge screw (conical head)	Pallet fork bridge screw (flat head)
Ref. 506 0058	①	②	③
	Ref. 1005718	Ref. 3538	Ref. 3537

Fitting stages for Calibre 8601 / 8611

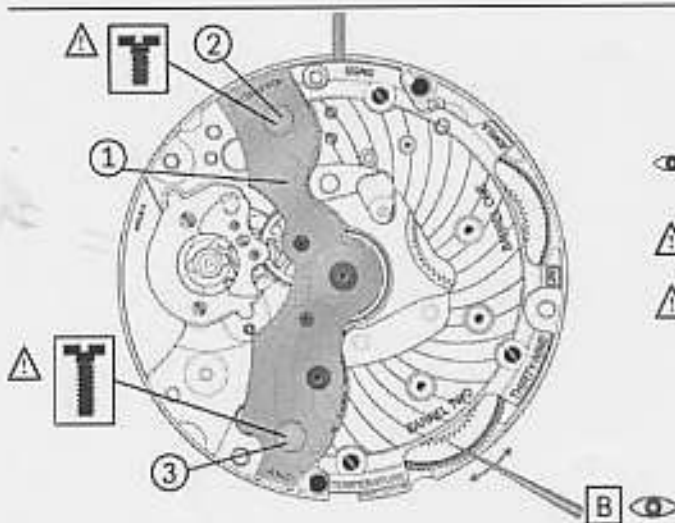


- ☞ Moebius SYNT-A-LUBE 9010
- ☞ Moebius SYNT HP-1300 Sans Colorant

Wheel train fitting

- A. Fit the first wheel ①.
- B. Fit the intermediate escapement wheel ②.
- C. Fit the intermediate train wheel ③.
- ☞ D. Lubricate the seconds wheel jewel.
- E. Fit the seconds wheel ④.
- ⚠ F. Fit the stop lever ⑤.
- ☞ G. Lubricate the stop lever.

Movement holder	First wheel	Intermediate escapement wheel	Intermediate train wheel	Seconds wheel	Stop lever
Ref. 506 0058	①	②	③	④	⑤
	Ref. 30014	Ref. 30039	Ref. 30025	Ref. 30027**	Ref. 56070



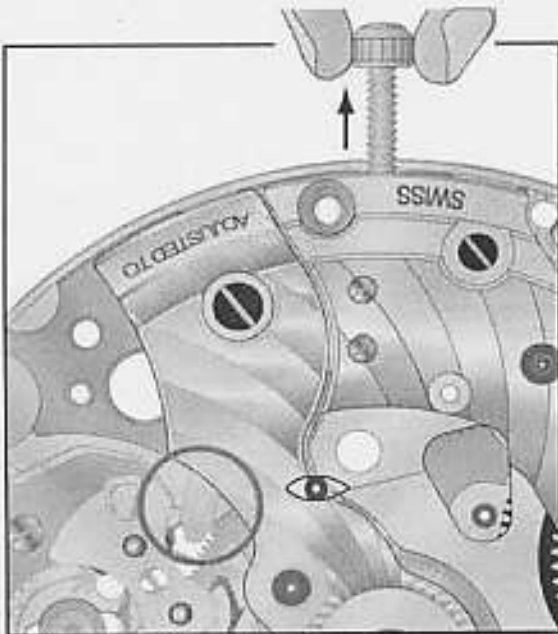
Wheel train bridge assembly

- A. Fit the pre-assembled barrel bridge ①.
- 👁 B. Check wheel train clearance (move barrel two slightly).
- ⚠ C. Tighten the screw (short) ②.
- ⚠ D. Tighten the screw (long) ③.

Movement holder	Wheel train bridge, pre-assembled	Screw for wheel train bridge (short)	Screw for wheel train bridge (long)
Ref. 506 0058	①	②	③
	Ref. 1004818	Ref. 3535	Ref. 3534



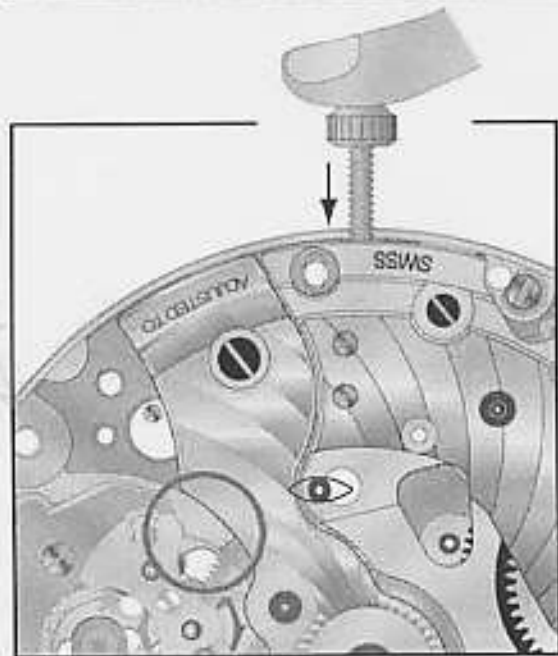
Fitting stages for Calibre 8601 / 8611



Stop lever function check

A. Pull the stem out fully.

👁 B. The stop lever should appear (see circled in green).



C. Push the stem in fully.

👁 D. The stop lever should disappear (see circled in green).

Movement holder

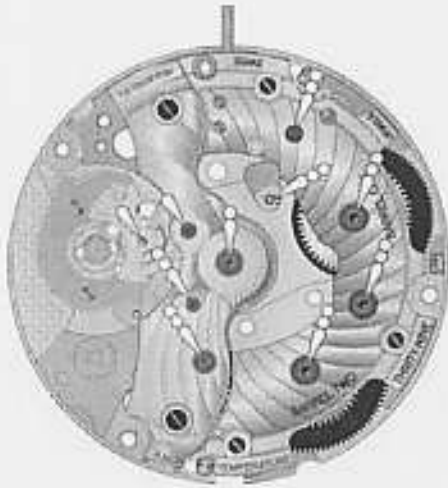
Ref. 506 0058

Fitting stages for Calibre 8601 / 8611

- ☞ Moebius SYNT HP-500
- ☞ Moebius SYNT-A-LUBE 9010
- ☞ Moebius SYNT HP-1300 Sans Colorant

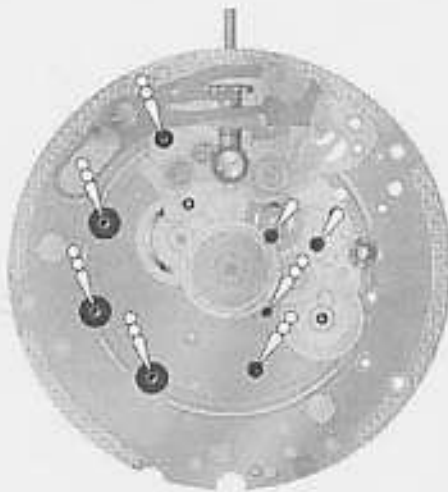
Wheel train and escapement lubrication

☞ A. Lubricate on wheel train side.

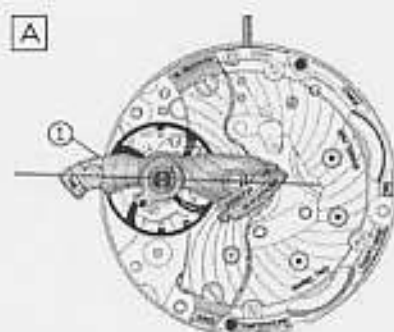


☞ B. Lubricate on dial side.

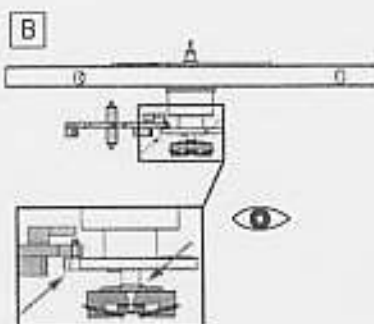
☞ C. Lubricate the escapement, see page 33.



Balance fitting



A Insert the balance bridge ①, with the serial number the facing the centre of the movement.

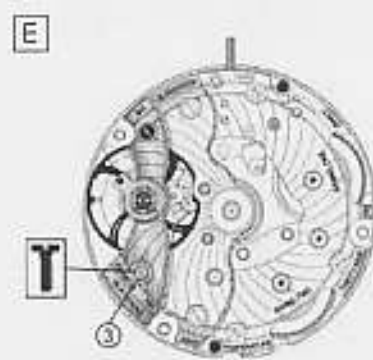
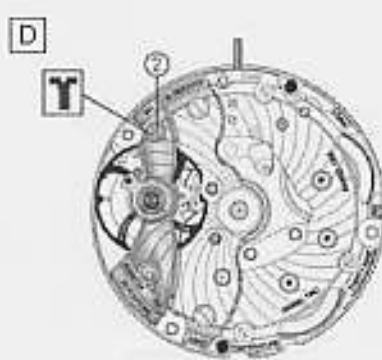
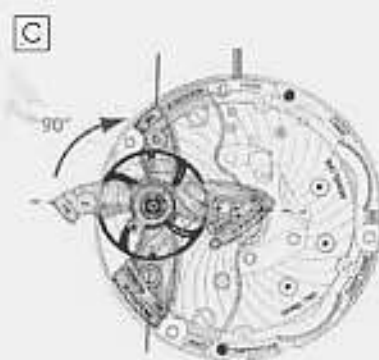





B Check the correct balance position. The pivots must be accurately fit into the shock-absorbers.

C Turn the bridge gently to its normal position.

D Tighten the screw ②.

E Tighten the screw ③.



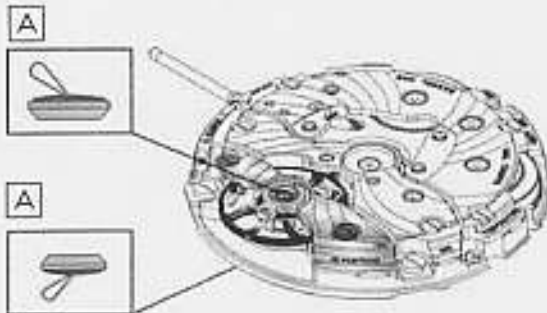
Movement holder	Balance with timing screws	Screw for balance bridge	Screw for balance bridge
Ref. 506 0058	①	②	③
	Ref. 4005119 + Ref. 1005818	Ref. 3535	Ref. 3536
			
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Fitting stages for Calibre 8601 / 8611

➤ Moebius SYNT-A-LUBE 9010

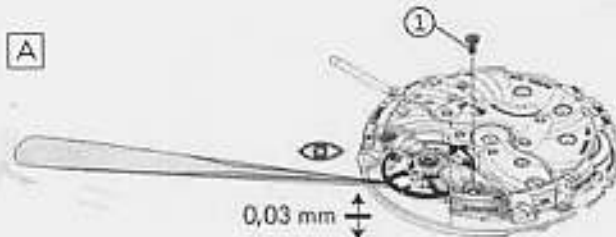
Shock-absorber lubrication

- ☉ Lubricate the two shock-absorbers.
- B. Fit the two shock-absorbers.



Movement holder	In-setting, upper	In-setting, lower	Cap jewel, upper	Cap jewel, lower	Shock-absorber spring, upper	Shock-absorber spring, lower
Ref. 506 0058	①	②	③	④	⑤	⑥
	Ref. 70640	Ref. 70641	Ref. 70900	Ref. 70901	Ref. 78004	Ref. 78005
	⊙	⊙	⊙	⊙	⊙	⊙
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Checking and adjusting the end-shake of balance

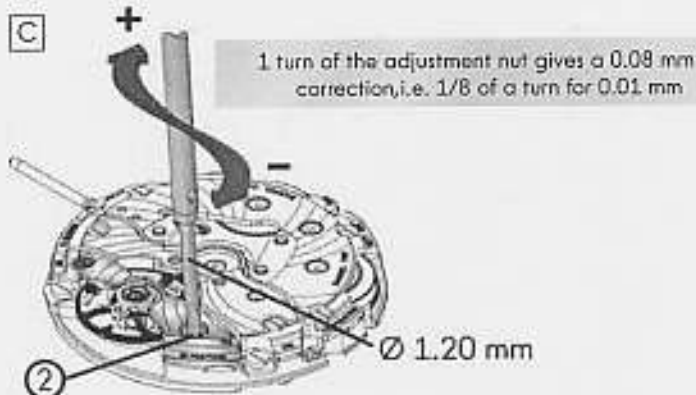


- ☉ Check the end-shake. (target value: 0.03 mm).

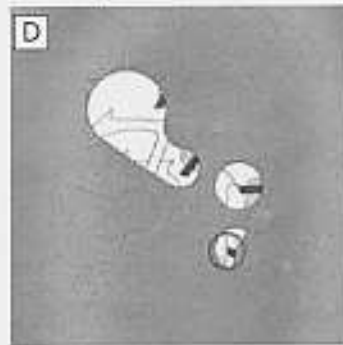
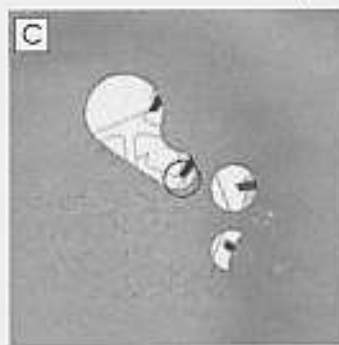
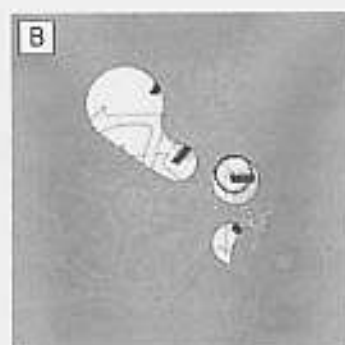
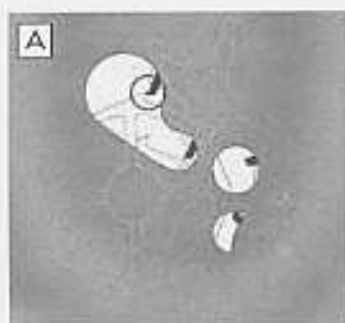
Correct the end-shake:
B. Remove the screw ① (long).

- ☉ Turn the balance bridge adjustment nut using a screwdriver ②.

D. Tighten the screw ①.



Fitting stages for Calibre 8601 / 8611

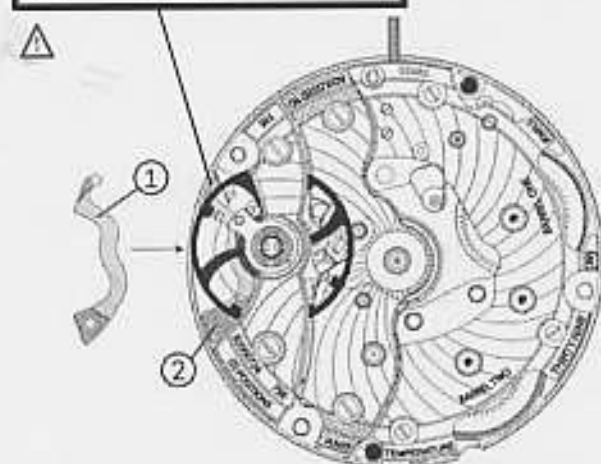
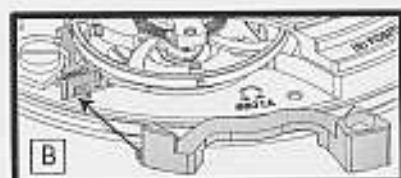


Escapement function check

- ⊠ All 8 teeth of the escape wheel must fall directly on the locking face of the pallet.
- ⊠ All 8 teeth of the escape wheel must fall directly on the locking face of the pallet.
- ⊠ The tip of the impulse pallet must pass all 8 teeth of the pinion without touching!
- ⊠ The tip of the impulse pallet must pass all 8 teeth of the pinion without touching!

Tool for checking the coaxial escapement functions

Ref. 506 0055

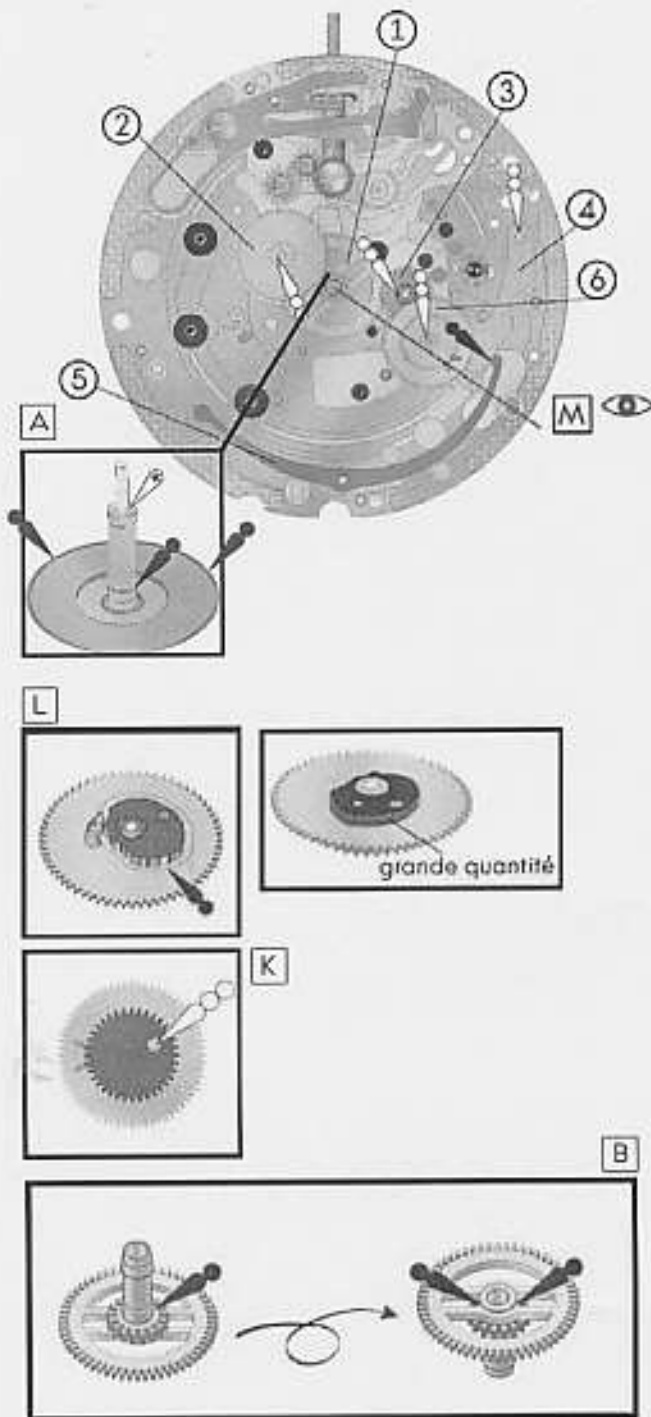


Limitation bridge assembly

- A. Fit the limitation bridge ①.
- ⊠ B. Engage the limitation bridge nose in its housing.
- C. Tighten the screw ②.

Movement holder	Limitation bridge	Screw for limitation bridge
Ref. 506 0058	①	②
	Ref. 10066	Ref. 3548
		•
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Fitting stages for Calibre 8601 / 8611



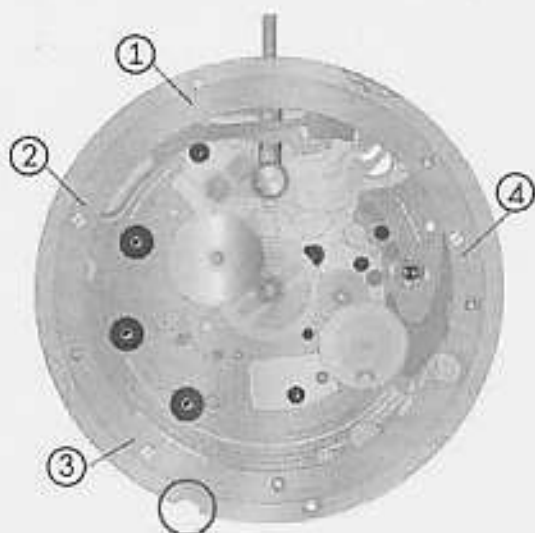
- Moebius 9504
- Moebius SYNT-A-LUBE 9010
- Moebius SYNT HP-1300 Sans Colorant
- Moebius SYNT HP-1300 Sans Colorant

Mechanism 3 assembly

- A** Lubricate the centre tube and the cannon pinion support on the plate.
- B** Lubricate the cannon pinion (the 2 grease points located under the wheel must be lubricated between the arms).
- C.** Fit the cannon pinion .
- D.** Lubricate the stud for minute wheel .
- E.** Fit the minute wheel .
- F.** Lubricate the stud for intermediate date wheel .
- G.** Fit the intermediate date wheel .
- H.** Fit the start lever .
- I.** Fit the lever spring .
- J.** Lubricate the spring that is in contact with the lever .
- K** Lubricate the stud for date indicator driving wheel .
- L** Lubricate beneath the wheel (mini-max), and the axis via the peephole.
- M** Fit the date indicator driving wheel , and align the wheel finger (see red line).
- N** Wind the spring with the plastic pin. After winding the spring, check that the spring and the lever are properly fitted against the plate.



Movement holder	Cannon pinion with driving wheel	Minute wheel	Intermediate date wheel	Start lever	Lever spring	Date indicator driving wheel
Ref. 506 0058	①	②	③	④	⑤	⑥
	Ref. 31083**	Ref. 31041	Ref. 33011	Ref. 53040	Ref. 61100	Ref. 33020

Fitting stages for Calibre 8601 / 8611



Fitting the dial holder

- A. Fit the dial holder ①, aligning the outer notch on the base with the notch on the plate at "10 o'clock".
- B. Tighten the 3 screws in the following order: ②, ③, ④.

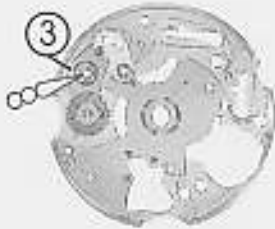
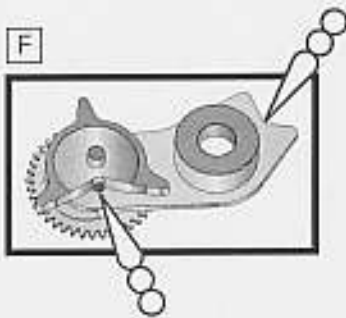
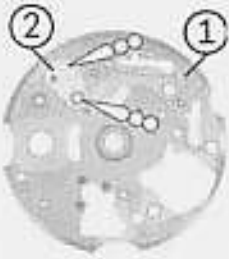
Movement holder	Dial holder	Dial holder screw
Ref. 506 0058	①	②
	Ref. 10106	Ref. 3552 (3x)
		
	-----	T

Fitting stages for Calibre 8601 / 8611

Moebius SYNT HP-1300 Sans Colorant

Complete assembly of the auxiliary plate

- A. Fit the auxiliary plate ① on the holder.
- B. Lubricate the stud for operating lever ②.
- C. Fit the corrector wheel operating lever ③.
- D. Lubricate the opening of the operating lever ④.
- E. Lubricate the stud for lever ③.
- F. Lubricate the corrector wheel lever ⑤.
- G. Fit the corrector wheel lever ⑤.
- H. Tighten the screw ④.
- I. Tighten the screw ⑤.



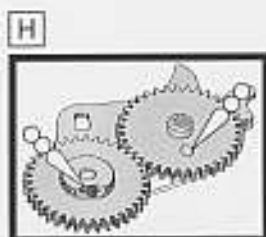
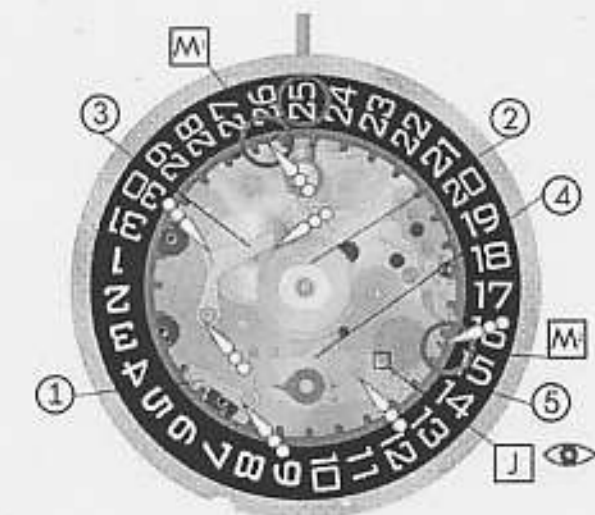
Movement holder	Auxiliary plate	Corrector wheel operating lever	Corrector wheel lever	Corrector wheel operating lever screw	Corrector wheel lever screw
	①	②	③	④	⑤
	Ref. 1002218	Ref. 53028	Ref. 53047	Ref. 3544	Ref. 3553
Ref. 506.0058					

Fitting stages for Calibre 8601 / 8611

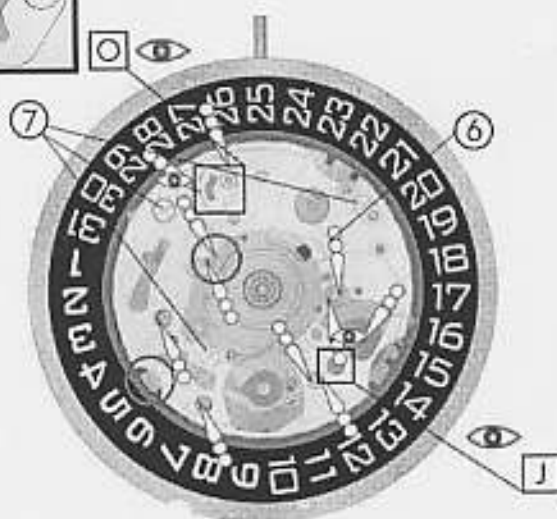
☞ Moebius SYNT HP-1300 Sans Colorant

Mechanism 4 + indicator assembly

- A. Lubricate the stud for date jumper Ⓞ.
- B. Fit the date jumper Ⓞ.
- C. Fit the hour wheel Ⓞ.
- D. Lubricate the stud for month jumper Ⓞ.
- E. Fit the month jumper Ⓞ at the centre of the minute pinion.
- F. Lubricate the jumpers (x2) Ⓞ.
- G. Lubricate the stud for additional driving lever Ⓞ.
- H. Lubricate (x3) the additional driving lever Ⓞ.
Ensure that the 3 drops flow all the way down.
- I. Fit the additional driving lever Ⓞ.
- J. Place the wheel of the additional driving lever so that the point is aligned with the point on the date indicator driving wheel.



Right quantity!



- K. Wheel teeth lubrication (HP-1300 sans colorant).
- L. Put the auxiliary plate into place carefully Ⓞ.
- M. Do not hold the auxiliary plate via the centre tube.
- N. Check the clearance of the date disc. Make sure that the jumpers are correctly positioned and check lubrication.

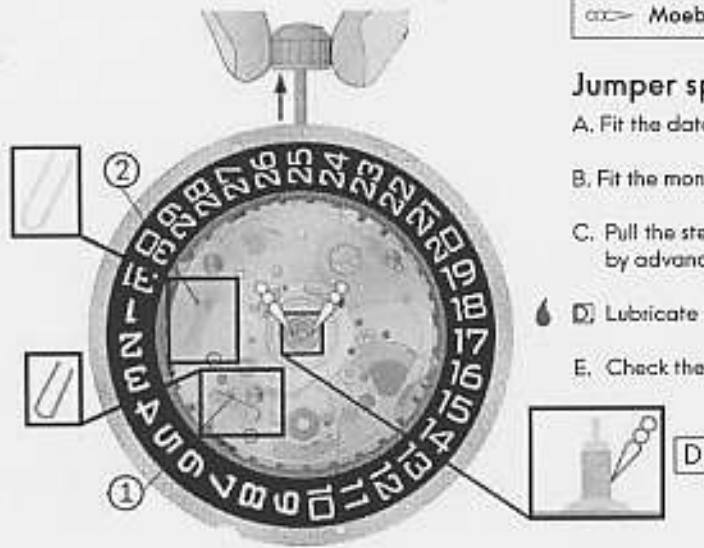


- O. Tighten the 3 screws Ⓞ.

Movement holder	Date jumper	Hour wheel	Month jumper	Additional driving lever	Date indicator	Auxiliary plate	Auxiliary plate screw
	①	②	③	④	⑤	⑥	⑦
	Ref. 53080	Ref. 31046**	Ref. 53082	Ref. 53048	Ref. 9143***	Ref. 1002218	Ref. 3551
Ref. 506 0058							
	-----		-----		-----	-----	

Fitting stages for Calibre 8601 / 8611

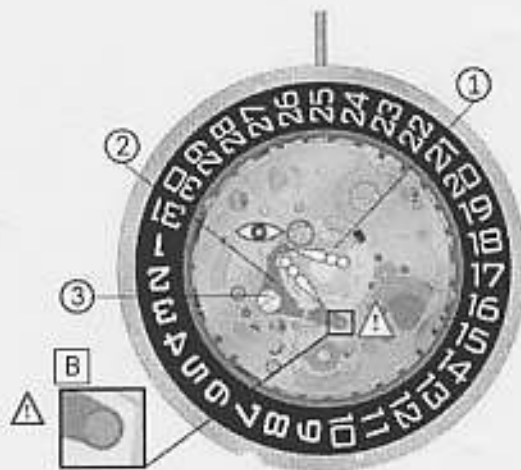
Moebius SYNT HP-1300 Sans Colorant



Jumper spring setting

- Fit the date jumper spring ① (short).
- Fit the month jumper spring ② (long).
- Pull the stem to position 2 and check the calendar jumps by advancing rapidly.
- Lubricate the stud.
- Check the clearance of the jumpers.

Movement holder	Date jumper spring	Month jumper spring
Ref. 506 0058	①	②
	Ref. 63032	Ref. 63033



Month star and lever setting

- Fit the month star ①.
- Loosen the month jumper!
- Fit the month lever ②.
- Lubricate the month lever (x2) ②.
- Tighten the month lever screw ③.
- Check the position and clearance of the month lever ② and the month star ①.
- Pull the stem to position 2 and check the calendar jumps by advancing rapidly.

Movement holder	Month star	Month lever	Month lever screw
Ref. 506 0058	①	②	③
	Ref. 33122	Ref. 63046	Ref. 3553

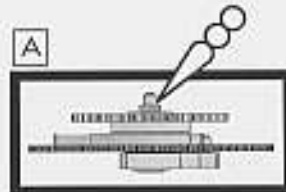
Fitting stages for Calibre 8601 / 8611

● Moebius 9504

☞ Moebius SYNT HP-1300 Sans Colorant

Maintaining plate setting

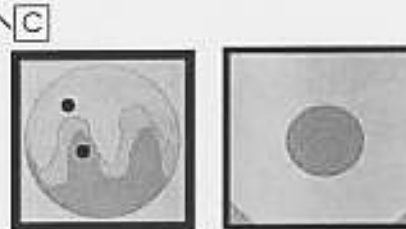
- ☞ Lubricate the pivot of the date indicator driving wheel.



- ☞ Lubrication of the month operating lever ⓐ.

- ☞ Fit the month operating lever ⓐ, and place the wheel of the month operating lever so that the points are aligned with the points of the date indicator driving wheel.

- ⚠ Be careful to position the month lever correctly.

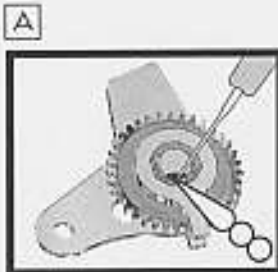
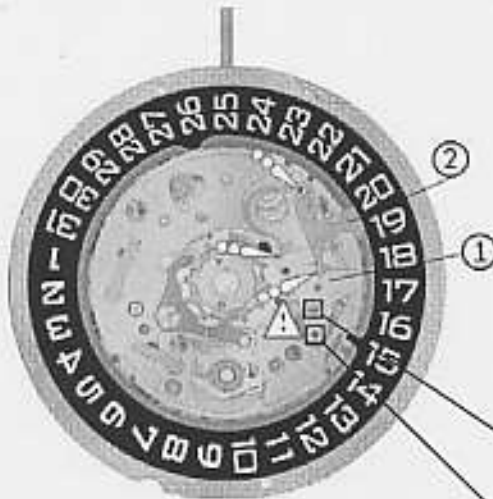


- D. Fit the control lever ⓑ.

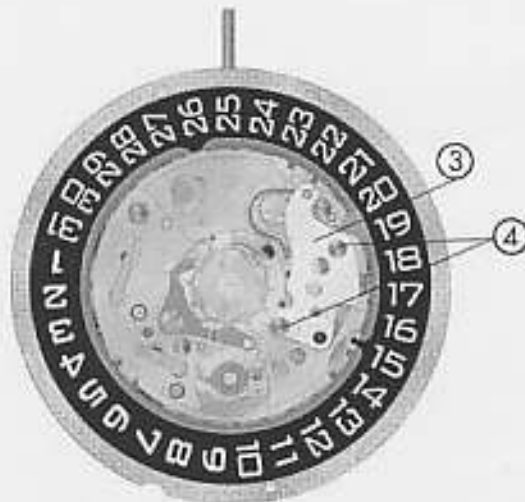
- ☞ E. Lubricate the control lever (x2) ⓑ.

- F. Fit the calendar indicator maintaining plate ⓓ.

- G. Tighten the 2 screws ⓓ.



Right quantity!

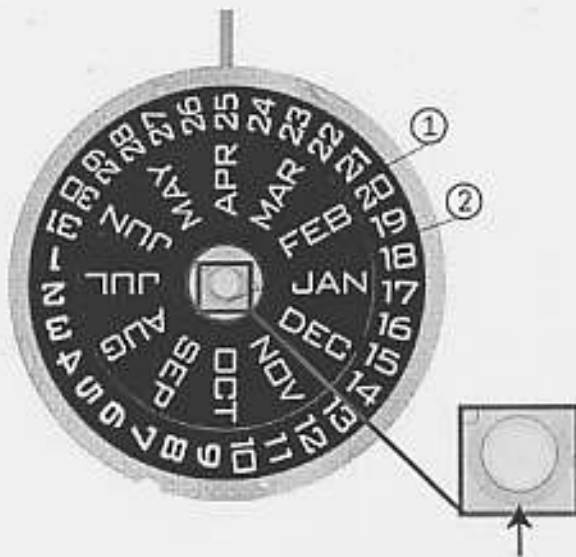


Movement holder	Month operating lever	Control lever	Calendar mechanism maintaining plate	Screw for calendar indicator maintaining plate
	①	②	③	④
	Ref. 53027	Ref. 55100	Ref. 13101	Ref. 3544
Ref. 506 0058				
		-----	-----	

Fitting stages for Calibre 8601 / 8611

Moebius SYNT HP-1300 Sans Colorant

Month indicator and spring clip setting



A. Check that the month jumper is positioned properly at the base of the teeth of the month star.



B. Fit the month indicator ①, and place the disc according to the 2 pins. Check that the month indicator is positioned accurately.

C. Fit the month indicator spring clip ③.

⚠ Attention: The spring clip must be placed properly in the slot.

D. Function check:

Movement holder	Month Indicator	Key-bolt for month indicator
Ref. 506 0058	①	②
	Ref. 9143***	Ref. 83174
	-----	-----

Year indicator function check

Rapid correction
Crown position 2:

Forward: check of rapid date correction. Make a full rotation of the disc.

Backward: check of rapid month correction. Make a full rotation of the disc.

Time setting
Crown position 3:

Check of date and month jump during time setting. Set the date to "29" and the month to "FEB" in rapid correction, then check the date jump from 29 to 30 when setting the time. Continue to turn the crown to trigger the double jump from 30 February to 1 March.

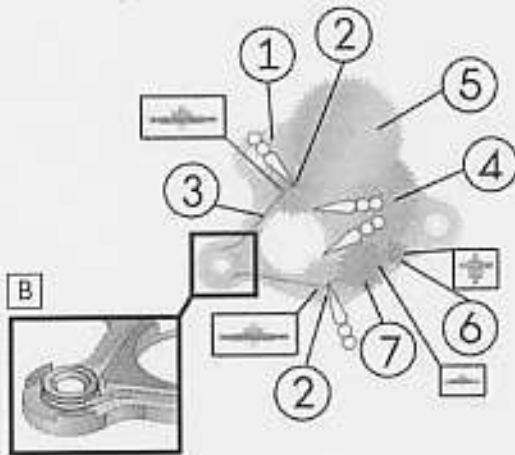
It is important to repeat these checks on the following dates:

30-31 March to 1 April	Single jump
29-30 April to 1 May	Double jump
29-30 June to 1 July	Double jump
29-30 September to 1 October	Double jump

Fitting stages for Calibre 8601 / 8611

Moebius SYNT HP-1300 Sans Colorant

Lower automatic bridge assembly



A. Fit the two wig-wag pinions ②.

B. Fit and slide the wig-wag pinion spring ③ under the screw foot.

C. Fit the reduction wheel ④.

D. Fit the barrel one driving wheel ⑤.

E. Fit the stop pinion ⑥.

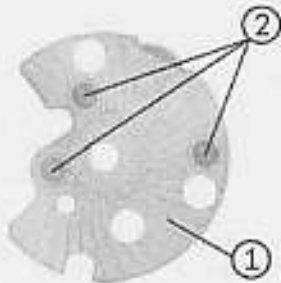
F. Fit the intermediate winding wheel ⑦.

⚠ Lubricate the spring for wig-wag pinions ③ and wig-wag pinions teeth ②.

Support	Lower automatic bridge	Wig-wag pinion	Spring for wig-wag pinion	Reduction wheel	Driving wheel for barrel one	Stop pinion	Intermediate winding wheel
	①	②	③	④	⑤	⑥	⑦
	Ref. 1205018	Ref. 32104	Ref. 62062	Ref. 32031	Ref. 31066	Ref. 32105	Ref. 32037
Ref. 506 0056							

Fitting stages for Calibre 8601 / 8611

Moebius SYNT HP-1300 Sans Colorant

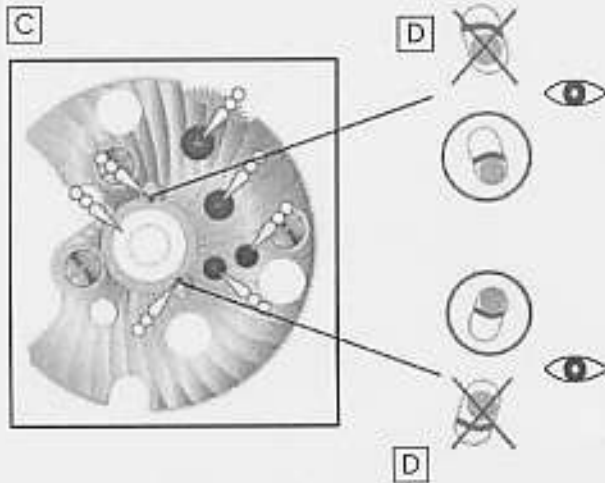


Upper automatic bridge assembly

A. Fit the assembled upper automatic bridge ①.

B. Tighten the three screws (grey) ②.

- Lubricate the pre-assembled upper automatic bridge.
- Check the tension on the wig-wag pinion spring.



Support	Upper automatic bridge, pre-assembled	Screw for pre-assembled upper automatic bridge
Ref. 506 0056	①	②
	Ref. 1203018	Ref. 3541

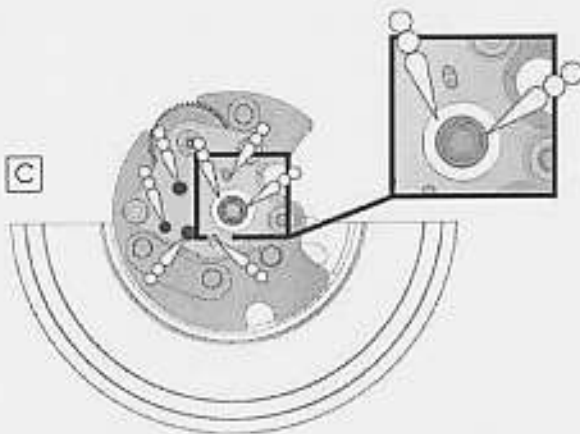
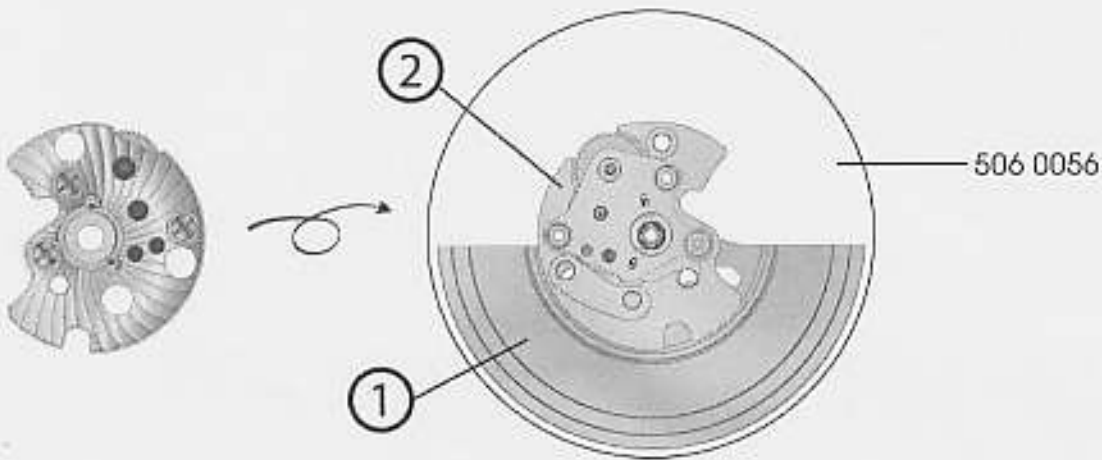
Fitting stages for Calibre 8601 / 8611

Moebius SYNT HP-1300 Sans Colorant

Fitting upper automatic bridge to oscillating weight and lubrication

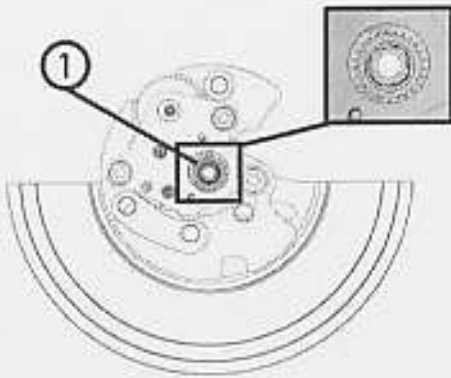
- A. Fit the oscillating weight ① to the holder.
- B. Reverse the pre-assembled upper automatic bridge and fit it to the oscillating weight ②.

 Lubricate the lower side.



Support

Ref. 506 0056



Oscillating weight pinion assembly

A. Fit the oscillating weight pinion ①.

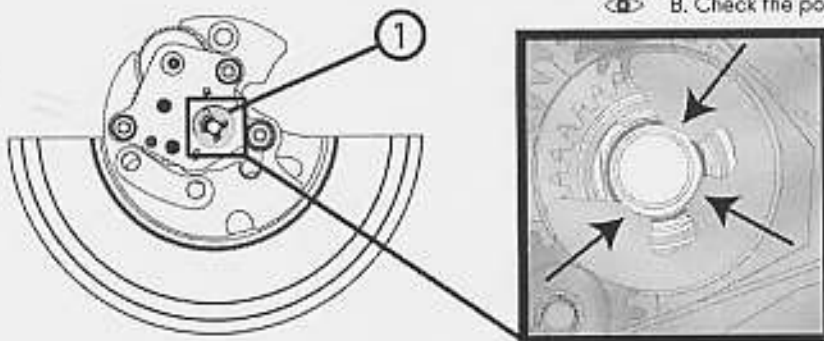


Support	Oscillating weight pinion
Ref. 506 0056	①
	Ref. 32100

Oscillating weight slide fitting

A. Fit the key-bolt using tweezers.

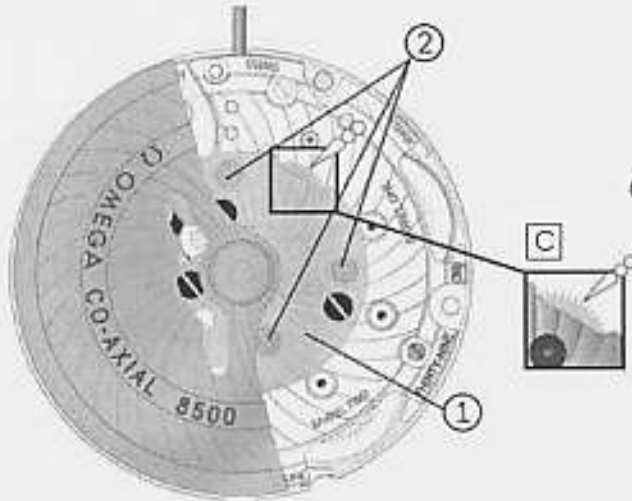
B. Check the position.



Support	Oscillating weight bolt
Ref. 506 0056	①
	Ref. 52120

Fitting stages for Calibre 8601 / 8611

0000 Moebius SYNT HP-1300 Sans Colorant



Assembled weight bridge assembly



















A. Fit the assembled weight bridge ①.

B. Tighten the three screws (black) ②.

Lubricate the teeth of driving wheel for barrel one.

Movement holder	Upper automatic bridge with oscillating weight	Screw for pre-assembled upper automatic bridge
Ref. 506 0058	①	②
		Ref. 3542

























Spare parts list for Calibre 8601 / 8611

Main plate, pre-assembled	Version	Reference	Lower automatic bridge, pre-assembled	Version	Reference
	8601A	7228601A100207*		8601A	7228500A1205018
	8611A	7228611A100207*		8611A	
Auxiliary plate, pre-assembled	Version	Reference	Date mechanism maintaining plate	Version	Reference
	8601A	7228601A1002218		8601A	7228601A13101
	8611A			8611A	
Barrel bridge, pre-assembled	Version	Reference	Barrel one, complete	Version	Reference
	8601A	7228500A1004118		8601A	7228500A20010
	8611A			8611A	
Wheel train bridge, pre-assembled	Version	Reference	Barrel two, complete	Version	Reference
	8601A	7228500A1004818		8601A	7228500A20011
	8611A			8611A	
Pallet fork bridge, pre-assembled	Version	Reference	Barrel drum one	Version	Reference
	8601A	7228500A1005718		8601A	7228500A20040
	8611A			8611A	
Balance bridge, pre-assembled	Version	Reference	Barrel drum two	Version	Reference
	8601A	7228500A10058°		8601A	7228500A20041
	8611A			8611A	
Limitation bridge	Version	Reference	Barrel cover one	Version	Reference
	8601A	7228500A10066		8601A	7228500A20050
	8611A			8611A	
Dial holder	Version	Reference	Barrel cover two	Version	Reference
	8601A	7228601A10106		8601A	7228500A20061
	8611A			8611A	
Upper automatic bridge, pre-assembled	Version	Reference	Barrel arbour one	Version	Reference
	8601A	7228500A1203018		8601A	7228500A20060
	8611A			8611A	




























Spare parts list for Calibre 8601 / 8611

Barrel arbour two	Version	Reference	Driving wheel for barrel one	Version	Reference
	8601A 8611A	7228500A20061		8601A 8611A	7228500A31066
Mainspring with bridle	Version	Reference	Canon pinion with driving wheel	Version	Reference
	8601A 8611A	7228500A2010019		8601A 8611A	7228601A31083**
Slipping mainspring	Version	Reference	Winding pinion	Version	Reference
	8601A 8611A	7228500A20101		8601A 8611A	7228500A31120
Oscillating weight, pre-assembled	Version	Reference	Sliding pinion	Version	Reference
	8601A 8611A	7228601A2201018		8601A 8611A	7228500A31121
First wheel	Version	Reference	Reduction wheel for manual winding	Version	Reference
	8601A 8611A	7228500A30014		8601A 8611A	7228500A32029
Intermediate train wheel	Version	Reference	Reduction wheel	Version	Reference
	8601A 8611A	7228500A30025		8601A 8611A	7228500A32031
Seconds wheel	Version	Reference	Intermediate winding wheel	Version	Reference
	8601A 8611A	7228601A30027**		8601A 8611A	7228500A32037
Intermediate escapement wheel	Version	Reference	Transmission wheel for ratchet	Version	Reference
	8601A 8611A	7228500A30039		8601A 8611A	7228500A3208319
Co-axial wheel	Version	Reference	Oscillating weight pinion	Version	Reference
	8601A 8611A	7228500A3004019		8601A 8611A	7228500A32100
Ratchet wheel	Version	Reference	Wig-wag pinion	Version	Reference
	8601A 8611A	7228500A31020		8601A 8611A	7228500A32104
Crown wheel	Version	Reference	Stop pinion	Version	Reference
	8601A 8611A	7228500A31023		8601A 8611A	7228500A32105
Minute wheel	Version	Reference	Intermediate date wheel	Version	Reference
	8601A 8611A	7228500A31041		8601A 8611A	7228601A33011
Hour wheel	Version	Reference	Date indicator driving wheel	Version	Reference
	8601A 8611A	7228601A31046**		8601A 8611A	7228601A33020

Spare parts list for Calibre 8601 / 8611

Month star	Version	Reference	Month and date corrector wheel operating lever	Version	Reference
	8601A	7228601A33122		8601A	7228601A53028
	8611A				
Intermediate corrector wheel	Version	Reference	Start lever	Version	Reference
	8601A	7228500A36051		8601A	7228601A53040
	8611A				
Pallet fork	Version	Reference	Month lever	Version	Reference
	8601A	7228500A40010		8601A	7228601A53046
	8611A				
Balance with timing screws	Version	Reference	Month and date corrector wheel operating lever	Version	Reference
	8601A	7228500A4005119		8601A	7228601A53047
	8611A				
Stud support	Version	Reference	Additional driving lever	Version	Reference
	8601A	7228500A40200		8601A	7228601A53048
	8611A				
Winding stem	Version	Reference	Date jumper	Version	Reference
	8601A	7228500A51010		8601A	7228601A53090
	8611A				
Yoke	Version	Reference	Month star jumper	Version	Reference
	8601A	7228500A51050		8601A	7228601A53082
	8611A				
Setting lever, pre-assembled	Version	Reference	Month and date corrector wheel	Version	Reference
	8601A	7228500A5108018		8601A	7228601A55040
	8611A				
Setting lever jumper	Version	Reference	Control lever	Version	Reference
	8601A	7228500A51091		8601A	7228601A55100
	8611A				
Click	Version	Reference	Stop lever	Version	Reference
	8601A	7228500A51120		8601A	7228500A56070
	8611A				
Oscillating weight bolt	Version	Reference	Click spring	Version	Reference
	8601A	7228500A52120		8601A	7228500A61080
	8611A				
Month operating lever	Version	Reference	Start lever spring	Version	Reference
	8601A	7228601A53027		8601A	7228601A6110019
	8611A				

Spare parts list for Calibre 8601 / 8611

Spring for wig-wag pinion	Version	Reference	Date and day indicator mechanism	Version	Reference
	8601A	7228500A62062		8601A	7228601A9143***
	8611A				
Date jumper spring	Version	Reference	Screw for barrel bridge	Version	Reference
	8601A	7228601A63032		8601A	7228500A3534
	8611A				
Month star jumper spring	Version	Reference	Screw for wheel train bridge	Version	Reference
	8601A	7228601A63033		8601A	7228500A3534
	8611A				
Shock-absorber, upper	Version	Reference	Screw for wheel train bridge	Version	Reference
	8601A	7228500A70530		8601A	7228500A3535
	8611A				
Shock-absorber, lower	Version	Reference	Screw for balance bridge	Version	Reference
	8601A	7228500A70531		8601A	7228500A3535
	8611A				
In-setting, upper	Version	Reference	Screw for balance bridge	Version	Reference
	8601A	7228500A70640		8601A	7228500A3536
	8611A				
In-setting, lower	Version	Reference	Screw for pallet fork bridge	Version	Reference
	8601A	7228500A70641		8601A	7228500A3537
	8611A				
Cap jewel, upper	Version	Reference	Screw for pallet fork bridge	Version	Reference
	8601A	7228500A70900		8601A	7228500A3538
	8611A				
Cap jewel, lower	Version	Reference	Screw for intermediate corrector wheel	Version	Reference
	8601A	7228500A70901		8601A	7228500A3539
	8611A				
Shock-absorber spring, upper	Version	Reference	Screw for setting lever jumper	Version	Reference
	8601A	7228500A78004		8601A	7228500A3540
	8611A				
Shock-absorber spring, lower	Version	Reference	Screw for automatic device	Version	Reference
	8601A	7228500A78005		8601A	7228500A3541
	8611A				
Adjustment nut for balance bridge, pre-assembled	Version	Reference	Screw for lower automatic bridge	Version	Reference
	8601A	7228500A8070318		8601A	7228500A3542
	8611A				
Crown wheel core	Version	Reference	Click screw	Version	Reference
	8601A	7228500A81136		8601A	7228500A3544
	8611A				
Key-bolt for month indicator	Version	Reference			
	8601A	7228601A83174			
	8611A				



Spare parts list for Calibre 8601 / 8611

Crown wheel core screw	Version	Reference
•	8601A	7228500A3545
	8611A	
Dial fastener	Version	Reference
—	8601A	7228500A3546
	8611A	
Stud screw	Version	Reference
•	8601A	7228500A3547
	8611A	
Screw for limitation bridge	Version	Reference
⌋	8601A	7228500A3548
	8611A	
Auxiliary plate screw	Version	Reference
⌋	8601A	7228601A3551
	8611A	
Dial holder screw	Version	Reference
⌋	8601A	7228601A3551
	8611A	
Screw for calendar indicator maintaining plate	Version	Reference
⌋	8601A	7228601A3552
	8611A	
Month and date corrector wheel operating lever screw	Version	Reference
⌋	8601A	7228601A3544
	8611A	
Month lever screw	Version	Reference
⌋	8601A	7228601A3553
	8611A	
Month and date corrector wheel lever screw	Version	Reference
⌋	8601A	7228601A3544
	8611A	
Kit black screw cal. 8500	Version	Reference
(4x) ⌋ (2x) ⌋ (1x) ⌋ (3x) ▾	8601A	7228500A9999
	8611A	

Specific Information for Calibre 8601 / 8611

1.0 Mandatory tools

Tools	Ref.
Torx timing key	506 0044
Tool for checking the coaxial escapement functions	506 0055
Holder for assembly of automatic device	506 0056
Holder for barrel bridge assembly	506 0057
Movement holder with pushers, 2-side use	506 0058
Mainspring winders	506 0059
8500 calibre kit	506 0061
Movement holder for hand setting	507 0104

2.0 Dual barrel systems

Major points

The motor component includes two barrels ref. 20010 & 20011 and a transmission wheel for ratchet wheels ref. 3208319. Barrel one ref. 20010 is with fixed spring. Barrel two ref. 20011 is with slipping spring. An anti-wear coating is applied to its inside wall to guarantee a very long life. The upper winding torque on barrel one is slightly lower than the barrel two torque. The two barrels are series mounted. Their revolutions are added together.

2.1 Manual winding principle (Fig. 2.1)

The system is wound by the barrel one driving wheel ref. 31066 which meshes with the barrel one teeth. This barrel has a ratchet wheel ref. 31020 which meshes with the ratchet wheel transmission wheel ref. 3203819 this in turn meshes with the ratchet wheel ref. 31020 held by barrel two.

2.2 Automatic winding principle (Fig. 2.1)

For winding with the automatic device, barrel one is wound by the driving wheel on the ratchet wheel transmission wheel ref. 31066. The barrel one torque is transmitted to barrel two by the ratchet wheels and ratchet wheel transmission wheel. There is balanced torque between the two barrels during winding.

The upper winding torque on barrel one (mainspring with bridge) is transmitted directly to barrel two until the slipping mainspring slips.

2.3 Unwinding principle (Fig. 2.3)

Barrel two meshes with the first wheel ref. 30014. The barrel two torque decreases as the wheel train rotates. When the barrel two torque has decreased to the same level as the barrel one torque, the linkage system between the two barrels will produce a balanced torque. The two barrels will then unwind simultaneously.

Fig. 2.1

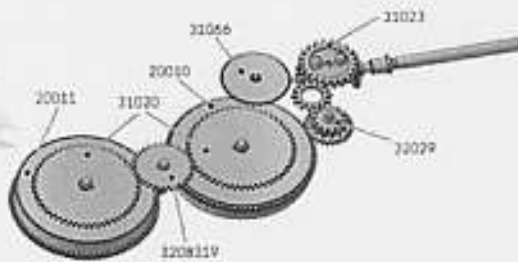


Fig. 2.3

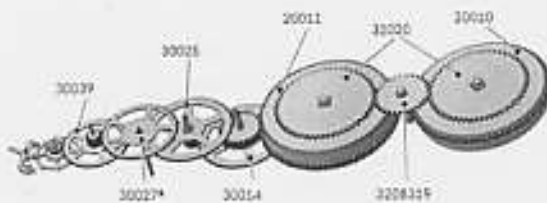


Fig. 3.0



Fig. 3.0.1



3.0 Lubrication of the escapement

The escapement lubrication should be inspected under a microscope. We recommend lubricating the escapement directly under a microscope.

Escapement wheel:

Place a tiny drop of HP-1300 on the tip of one tooth and then move the escapement forward by one tooth. Repeat this step eight times so that all the teeth are lubricated.

Quantity:

Lubricant quantity tolerances are shown above (see Fig. 3.0).

Pinion:

Place a tiny drop of HP-1300 on the tip of one pinion tooth. Once you have placed the first drop, move the escapement forward by three or four teeth. Place another drop on a second tooth.

Quantity:

The required quantity of lubricant is indicated in the diagram (see Fig. 3.0.1).

Fig. 4.0



4.0 Balance bridge

The balance bridge is a cross bridge fitted to a fixed seat (side opposite the movement number) and an upper, mobile seat (movement number side) used to adjust the balance end-shake. As the balance roller is located under the pallet fork, special care should be taken when fitting-in the balance together with the bridge.

Fig. 5.01



Fig. 5.02



Fig. 5.03



5.0 Sprung-balance

The sprung-balance ref. 4005119 has four micro timing-screws located inside the balance rim. These screws work in pairs, in opposite positions.

The screw head shape has been improved to make it easier to access the screw with the timing key. The key can be inserted every 60 degrees.

The engraving on the two adjoining balance arms marks the position of each pair of screws. One arm is engraved Si 14, the other OMEGA.

A rate deviation is corrected by moving one opposed pair of timing-screws (towards the centre of the balance, Figure 5.02), which reduces its moment of inertia and makes it running faster.

A gain of time is corrected by moving one opposed pair of timing-screws (towards the balance rim, Figure 5.03), which increases its moment of inertia and makes it running slower.

5.1 Si14 balance-spring

The physical properties and unique geometry of the Si14 balance-spring improve the chronometric performances of OMEGA watches equipped with this new oscillator. The watch rate is more stable over time and less sensitive to external interference.

Major points:

Amagnetic: the Si14 balance-spring is not affected when subjected to a magnetic field.

Impact resistance: excellent resistance factor (maintenance of properties despite shocks). Extremely low influence of fatigue (ageing). No plastic deformation.

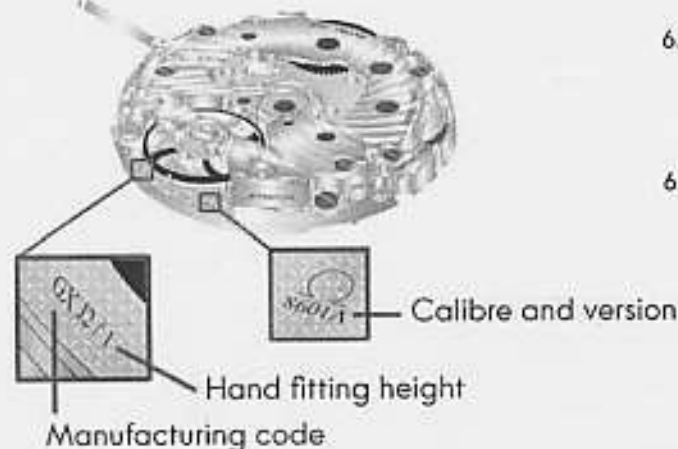
Ischronism: improved isochronism owing to its specific geometry. The variances between the different vertical positions of the watch are significantly reduced.



Recommendations:

Cleaning: Manipulation: the sprung-balance system must be handled with care. However, the Si14 balance-spring must not be adjusted. Adjustment, i.e. vertical and horizontal centring of the collat must never be performed on this component.

Fig. 6.0



6.0 Information on the movement

6.1.1 Calibre, version, manufacturing code and height of hands

As shown in Figure 6.0

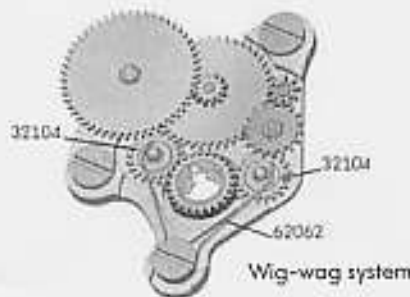
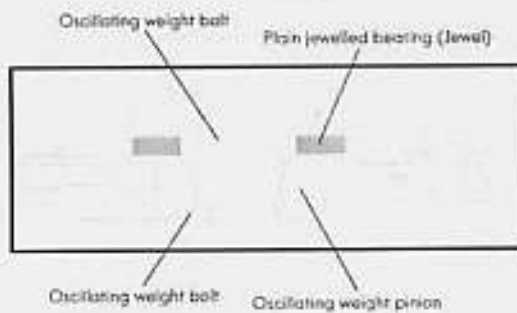
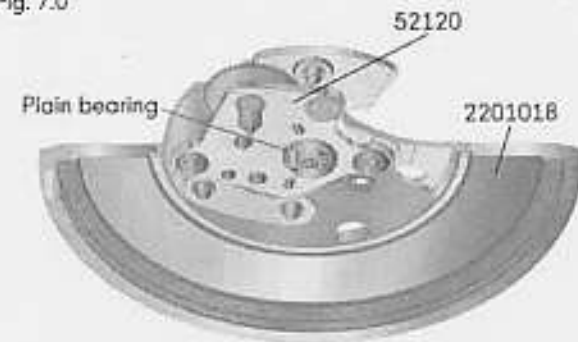
6.1.2 Ordering starred parts

Movement spare parts should be ordered as follows, in Figure 6.0

Example 7228601A3108301.

The final figure indicates the height of the cannon pinion with driving wheel.

Fig. 7.0



7.0 Automatic system

The automatic system winds the watch by rotating the oscillating weight ref. 2201018 in both directions. The oscillating weight pivots on a plain jewelled bearing (jewel in ZrO_2 , zirconium oxide), without noise or vibration. The weight has an open hole to absorb shocks without damaging the bearing.

The oscillating weight bolt ref. 2201018 is fixed to the automatic device using a key-bolt ref. 52120. There is no risk of it becoming unscrewed.

Two wig-wag pinions ref. 32104 reverse the system; these are held in place by a wig-wag pinion spring ref. 62062.

The entire system may be dismantled, cleaned and assembled, with no need for special lubrication treatments.

The automatic system is modular and may be removed from the movement. It is fixed to the movement with three black screws ref. 3541.

Fig. 8.1

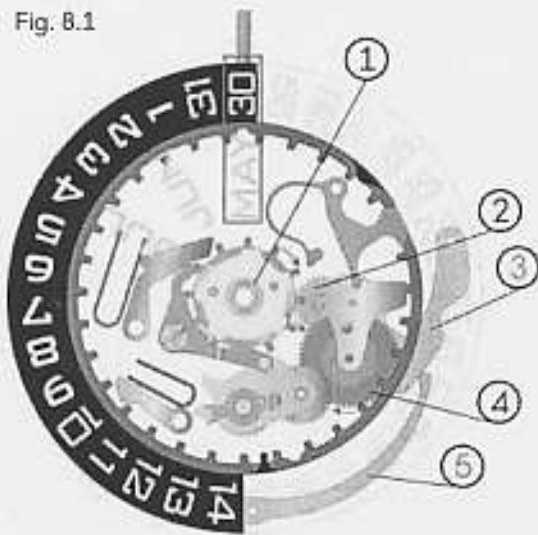


Fig. 8.2

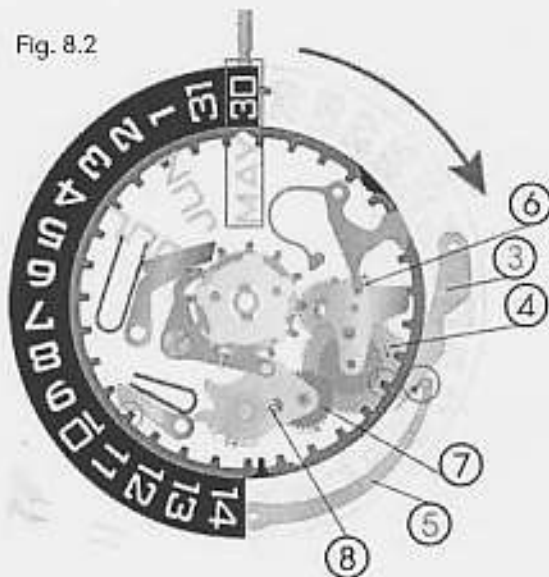


Fig. 8.3



8.0 Calendar

Annual calendar with instantaneous jump

The annual calendar with instantaneous jump functions without manual date and month correction between 1st March and 28th February of the following year.

Release of "normal" instantaneous date jump (e.g. from 5th to 6th, etc.)

Using the 8500 Manufacture calibre as a base, we have integrated an instant releasing system for the date indicator. Starting at the cannon pinion with driving wheel ref. 31083, the torque is transmitted to the minute wheel ref. 31041 then to the hour wheel \odot ref. 31046*, to the intermediate date wheel \odot ref. 33011 and finally to the date indicator driving wheel \odot ref. 33020.

The date indicator driving wheel \odot consists of 4 levels (see illustration below): an intermediate date wheel cam (d) on which is pressed in a pin, above is placed the plate of the date indicator driving wheel is placed (c), a date finger indicator (b) and a driving pinion (a).

The initial position of the date indicator driving wheel \odot is ensured by the geometry of the cam and by the force applied through the unlocking yoke \odot ref. 53040 by its spring for unlocking yoke \odot ref. 61100.

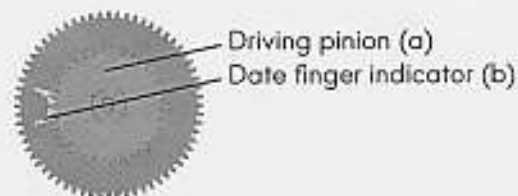
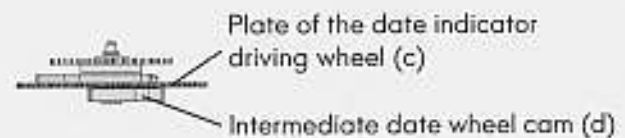
The plate of the date indicator driving wheel (c) is the only component that turns constantly; the other components are attached together. These are moved when the pin reaches its stroke end in the opening of the plate of the date indicator driving wheel (c).

The unlocking yoke \odot ref. 53040 is wound up gradually on the cam. The system is released when the maximum force is attained. The finger and the driving pinion drive their respective parts instantly.

Information regarding the "normal" date jump

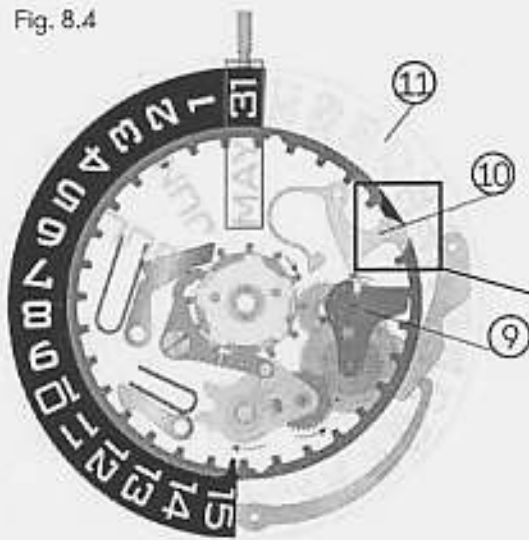
The date indicator is moved only by the finger indicator driving wheel ref. 33020 \odot . (see Fig. 8.1, Fig 8.2 and Fig 8.3 on left).

Date indicator driving wheel



Specific Information for Calibre 8601 / 8611

Fig. 8.4



Month jumper

The month disc is moved by the month finger operating lever ref. 53027 Ⓞ in instant jump.

The month finger is moved constantly via the plate of the indicator wheel; it moves the month star only when the engagement lever ref. 55100 Ⓞ comes into contact with the catch of the date disc ref. 9143*** Ⓞ.

The torque is transmitted to the finger of the month operating lever via the date indicator wheel then to the plate of the indicator wheel, where the finger is inserted.



Fig. 8.5

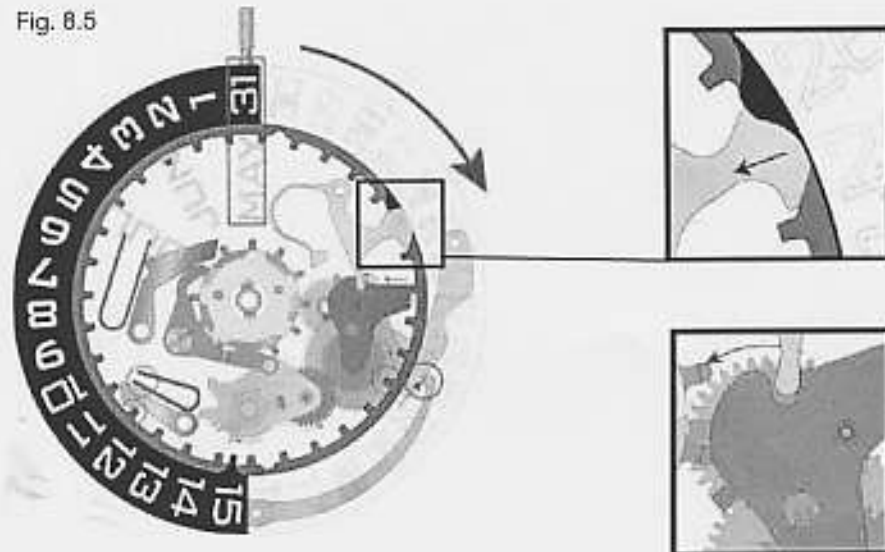


Fig. 8.6

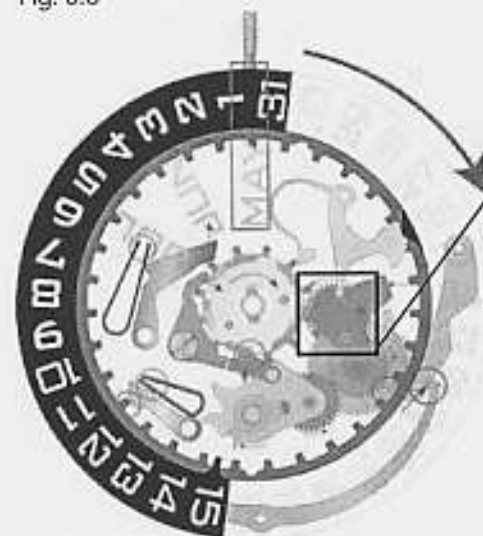


Fig. 8.7



Specific Information for Calibre 8601 / 8611

Fig. 8.8



Double jump (from 30 to 1 of following month)

The double jump is broken down as follows. The finger of the assembled additional driving lever ref. 53048 ⑩ moves the tooth of the upper date disc to skip from 30 to 31. The date finger indicator driving wheel ref. 33020 ⑪ then takes over to move the disc from 31 to 1. These functions are performed instantly. The torque is transmitted to the finger of the additional assembled lever, via the date indicator driving wheel ⑪, then by the additional intermediate date wheel and its additional driving wheel.

The movement of the date disc by the finger of the additional lever is defined by the position of the assembled additional driving lever ⑩ ref. 53048, which, in turn, is determined by the month star ⑫ ref. 33122 via the month lever ⑬ ref. 53046.

Fig. 8.9



Fig. 8.10



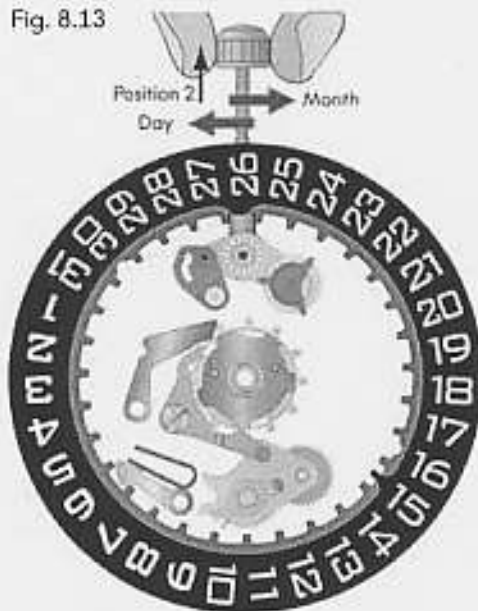
Fig. 8.11



Fig. 8.12



Fig. 8.13



Rapid correction

The date and month can be corrected independently; corrections are made with the stem in position 2.

The date is corrected by turning the crown clockwise and the month by turning the crown anticlockwise.

The torque is transmitted from the sliding pinion ref. 31121 to the intermediate wheel for corrector ref. 36051, then to the intermediate wheel fixed on yoke for month and date corrector ref. 53047.

On the same axis of the intermediate wheel on the yoke for month and date corrector is a corrector fixed which drives either the month star (for month correction) or the date indicator (for date correction).

A spring is mounted between the intermediate wheel for corrector ref. 36051 and the yoke for month and date corrector ref. 53047.

The purpose of the spring is to make the yoke pivot, via friction, from the month correction position to the day correction position and back.

9.0 Crown functions

The crown has three positions:

1. Normal position, when worn: water-resistance is ensured by the crown leaning against the case.
Occasional winding: wind the watch by means of the crown (position 1), if the watch has not been worn for 55 hours or more.

2. Date correction: pull the crown to position 2.
 Turn the crown forward; the date disc jumps 1 day.
 Push the crown back to position 1.

The day following 28 or 29 February (depending on whether it is a leap year), the date needs to be adjusted by one or two days (crown in position 2). Ideally, the date correction should be adjusted after setting the time.

When date correction is between 0h and 10h, the force required for the first jump is slightly more than for the following.











Month correction: Pull the crown to position 2.
 Turn the crown backward; the month disc jumps 1 month.
 Push the crown back to position 1.

3. Hand-setting: hours-minutes-seconds.
 Pull the crown completely out to position 3. The second hand stops. Turn the crown forwards or backwards until the hands are in the desired position. Synchronise the seconds by pushing the crown into position 1 at the time signal.

Note: When changing the date backwards in time setting mode, it is necessary to wind the hands back to 2pm to ensure the date changes. Make sure the month has been set prior to setting the time.

Specific Information for Calibre 8601 / 8611






10.0 Components that should not be epilam-treated after cleaning

Description	Reference	
Balance assembled on the balance bridge	4005119 + 1005818	
Complete balance	4005119	
Pallet fork	40010	
Shock-absorber, upper *	70640	
Shock-absorber, lower *	70641	
Pallet fork bridge	1005718	
Barrel one, complete **	20010	
Mainspring	2010019	
Barrel two, complete **	20011	
Slipping mainspring	20101	



* Do not treat the shock-absorber settings with epilam; the cap jewels should however be treated
 ** Do not treat the complete barrels with epilam, only the drums, covers and arbours.

10.1 Compulsory epilam treatment required

Description	Reference	
Lever spring	61100	
Corrector wheel operating lever	53028	
Control lever	55100	
Month lever	53046	
Month jumper	53082	

11.0 Technical data

11.1 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 (pivot)
Hour hand	507 0104	5	10	50	no
Minute hand		2	10	50	no
Second hand		1	10	30	yes

11.2 Winding time on Cyclotest (4 rpm)

Complete winding takes 4 hours 10 minutes (movement stopped before the winding, stem in position 3).

11.3 Instantaneous rate

11.3.1 Control of instantaneous rate

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



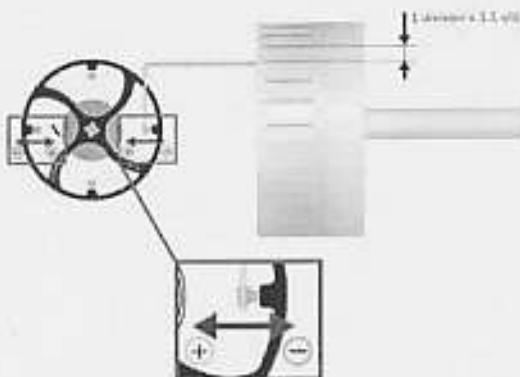
The function and amplitude checks at 0 and 24 hours must be done when the year indicator is engaged, when the force is at its maximum. This period is between 22:00 and 23:30.

Special parameter settings

Instrument type	Coaxial, 3.5 Hz calibres Lift angle, set to 38°	Comments
Former Witschi instruments - Watch Expert (red case) - Wicomètre Professionnel - Chronoscope M1 (former version)	The amplitude is not measured correctly	3.5 Hz calibres: The frequency parameters (25'200 A/h) should be set manually so that instant-on is displayed correctly.
New Witschi instruments - Watch Expert II (white case) - Chronoscope M1 (updated version)	Lift angle, set to 38° All measurements are correct	Test mode: Parameters must be set for «Spe1»!

11.3.2 Adjustment of the rate

Fig. 11.3.2



A special timing key tool has been developed to adjust the rate even when the movement is cased in. (see point 5). A line on the scale on the outside of the tool corresponds to 1.1 s/d (Figure 11.3.2).

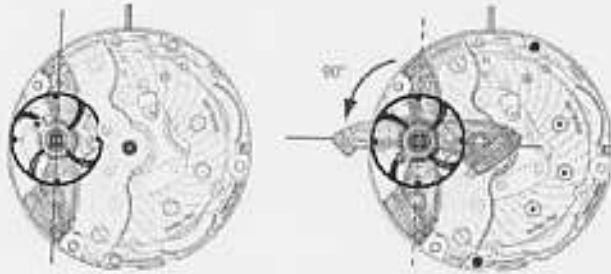
The correction is always made on the pair of opposed screws located between the non-engraved arms. The other pair of screws between the engraved arms is used for timing during production.



Timing corrections must always be made to the pair of timing-screws between the two, non-engraved arms to prevent an unbalance of the balance.

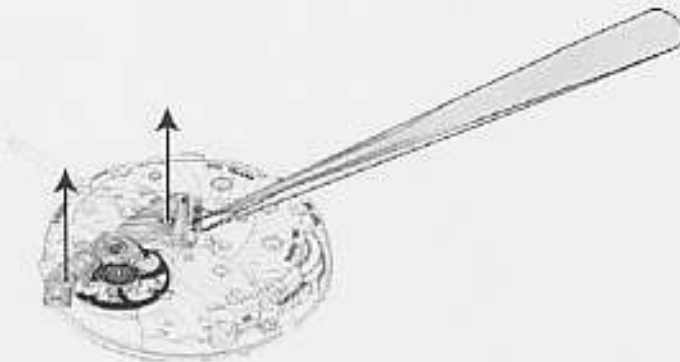
Fig. 12.0

12.0 disassembling



12.1 Disassembling the balance bridge

The balance bridge 10056° is always removed in the reverse direction of the procedure on page 12. The bridge must be turned towards the centre of movement to avoid damaging the balance during the dismantling operation. The bridge may be removed without danger in this position.



12.2 Disassembling the date mechanism maintaining plate

The spring remains on the plate once the date mechanism maintaining plate has been removed (see circled in green).

12.3 Components to not be cleaned

All the black screws	Ref. 3534 (4x)	T
	Ref. 3535 (2x)	T
	Ref. 3536 (1x)	T
	Ref. 3541 (3x)	=

Spring for wig-wag pinion	Ref. 62062	
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Do not clean inside the machine, this may deform it.



Specific Information for Calibre 8601 / 8611

Technical Guide versions				
First version:	20.08.2008	Version A	Made by:	Pelrom
Last version:	26.03.2010	Version B		

Modifications of Technical Guide version B			
Old version (A)		New Version (B)	
7228601A3553	Corrector wheel operating lever screw Screw for calendar indicator maintaining plate	7228500A3544	Corrector wheel operating lever screw Screw for calendar indicator maintaining plate
-----		<p>Add of text on page 39: The day following 28 or 29 February (depending on whether it is a leap year), the date needs to be adjusted by one or two days (crown in position 2). Ideally, the date correction should be adjusted after setting the time. When date correction is between 0h and 10h, the force required for the first jump is slightly more than for the following.</p> <p>Note: When changing the date backwards in time setting mode, it is necessary to wind the hands back to 2pm to ensure the date changes. Make sure the month has been set prior to setting the time.</p>	