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Prod. by: pelrom

Date: 24.10.2008 3

Modifications: see last page

# CALIBRE 1532

	Version A	Version B	Version C	Version D
11 1/2''' Ø 25,60 mm	1 2 3 ASS E.O.L COR			
Height on movement	1.95 mm			
Height on battery	2.15 mm			
Number of rubies	6			
RoHS model	No	No	Yes	Yes



Omega personalised quartz movement, featuring circular graining, rhodium-plating and gilded engraving. Three-hand display - hours and minutes and seconds, date. Stepper servo-motor, sixty impulses per minute, inhibition, EOL

## General information for Calibre 1532 Technical modifications on version «B» Technical modifications on version «D» Information on the battery / Movement exchange is recommended / Tools Differences between non Rohs 1532A, 1532B and Rohs 1532C, 1532D Spare parts list for Calibre 1532 Specific information for Calibre 1532

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Calibre 1532

WORLD SERVICE ORGANIZATION

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Seconds wheel			
Version 1532A Version 1532B			
Former execution	New execution		
722143030027*	7221530B30027*		
$\odot$	$\odot$		
	Improve the accuracy of the seconds hand jump. New version from date code: Ref. 7221530B3002701: 42/05 Ref. 7221530B300270: 13/05		

Wheel train bridge			
Version 1532A	Version 1532B		
Former execution	New execution		
7221538B1004807	7221538B1004807		
	A magnet to stabilise the seconds wheel has been added. New version from date code: 10/04		

#### The policy for local repair is:

We recommend a movement exchange (see Working Instruction no. 31).

In case of local repair, the exchange or replacement of spare parts must be made according to the movement version (see engraving on main plate). Example: On a movement calibre 1532B, the parts to exchange or replace are those mentioned under version 1532B.

#### Technical modifications on version «B»

#### Calibre 1532A + 1532B

#### Application :

When repairing a version A or B, the new components must be used systematically.

#### Goal of the technical modifications:

Improve the accuracy of the seconds hand jump in relation to the dial markers.



Reduction of the play of the wheel engagement to improve seconds hand jump.

New version from date code: 42/07

**Improvement of the seconds jumps on calibre 1532D** In order to better meet our customers requirements, the jump of the seconds hand on calibre 1532D has been further improved.

#### Technical modifications on version «D»

#### Calibre 1532D

#### **Application :**

When repairing a version D, the new components must be used systematically. When ordering one of the two components individually, an automated order of KIT ref. 7221530D9999\* is issued. It comprises: Seconds wheel ref. 7221530D30027\* Intermediate wheel ref. 7221530D30012

#### Goal of the technical modification:

Further improve the accuracy of the seconds hand jump in relation to the dial markers, including a reduction of the wheel engagement play.

#### Interchangeability

New and old wheel executions must not be mixed; there is a **serious risk of blocking**.

Calibre version 1532C was produced with old and new wheel executions. We therefore suggest to systematically using new wheels from the KIT ref. 7221530D9999\*.

#### Major points

#### Information on the battery (ref. 1449936)

1.55 V	«Low Drain»
Ø 9.50 mm,	H 1.60 mm
Renata	373
Vartachron	V373
UCAR, Energizer, Ray-O-Vac	373
Maxell, Panasonic, Sony	SR916SW

#### Mandatory tools:

Hand fitting	Ref.
Movement holder for hand setting	507 001
Tweezers	

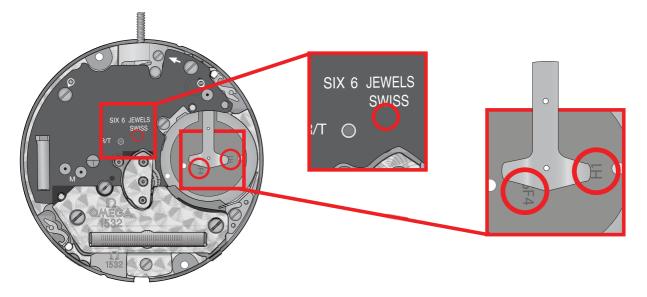
Plastic tweezers

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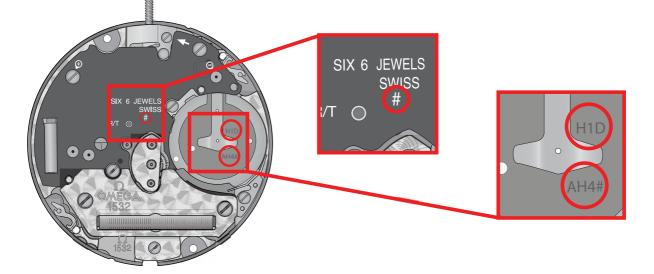
502 310 0051

Differences between a non-RoHS version and a RoHS version

Non-RoHS version, Calibre 1532A, 1532B

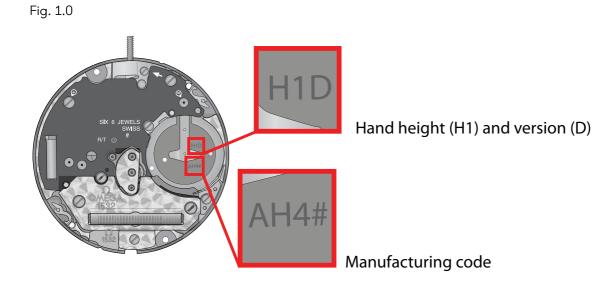


RoHS version, Calibre 1532C, 1532D



Hour wheel	Version	Référence	
HOUI WIEEL	1532A	Reference	
-			
(B)	1532B	722143031046*	
	1532C		
	1532D		
Battery	Version	Reference	
	1532A		
	1532B	1 4 4000 4	
+	1532C	1449936	
<u> </u>	1532D		
Battery insulator	Version	Reference	
1	1532A		
$\wedge$	1532B		
	1532C	72214302065100	
	1532D		
Bridle insulator	Version	Reference	
	1532A		
	1532B	72214302065118	
	1532C		
	1532D		
Ridle	Version	Reference	
	1532A		
J	1532B		
- C	1532C	72214209035	
	1532D		
Hand setting stem Ø 0.90 mm / L 15.00 mm	Version	Reference	
	1532A		
	1532B		
		72214305102021	
	15320		
-0	1532C		
Land setting half stom	1532C 1532D		
Hand setting half-stem movement side, beak		Reference	
	1532D	Reference	
movement side, beak	1532D Version		
	1532D Version 1532A	Reference 72214305102126	
movement side, beak	1532D Version 1532A 1532B		
movement side, beak	1532D Version 1532A 1532B 1532C		
movement side, beak	1532D Version 1532A 1532B 1532C 1532D	72214305102126	
movement side, beak	1532D Version 1532A 1532B 1532C 1532D Version 1532A	72214305102126	
movement side, beak	1532D Version 1532A 1532B 1532C 1532D Version 1532A 1532B	72214305102126	
movement side, beak	1532D Version 1532A 1532B 1532C 1532D Version 1532A 1532B 1532C	72214305102126 Reference	
movement side, beak	1532D Version 1532A 1532B 1532C 1532D Version 1532A 1532B	72214305102126 Reference	
movement side, beak	1532D Version 1532A 1532B 1532C 1532D Version 1532A 1532B 1532C 1532D Version	72214305102126 Reference 72200003987	
movement side, beak	1532D Version 1532A 1532B 1532C 1532D Version 1532A 1532D Version 1532A	72214305102126 Reference 72200003987	
movement side, beak	1532D Version 1532A 1532C 1532C 1532D Version 1532A 1532C 1532D Version 1532A 1532A	72214305102126 Reference 72200003987	
movement side, beak	1532D Version 1532A 1532B 1532C 1532D Version 1532A 1532D Version 1532A	72214305102126 Reference 72200003987	
r Kit second wheel + intermediate wheel intermediate wheel	1532D Version 1532A 1532C 1532C 1532D Version 1532A 1532C 1532D Version 1532A 1532A	72214305102126 Reference 72200003987	

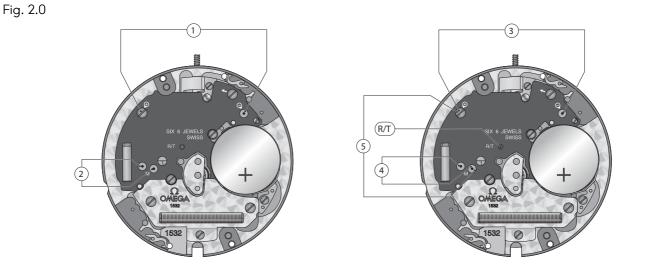
## 1.0 Information on height of hands



1.1	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 (jewel)
Hours hand		4	10	55	no
Minutes hand	507 0023	2	10	55	no
Seconds hand		1	10	30	yes

### 2.0 Electrical tests



Pos.	Setting of apparatus	Measurement	Test	Remarks
1	2 ∨ (Ri ≥ 10 kΩ / V)	1,55 V	Battery voltage	Measured with battery
2	$\begin{array}{c} 1 \lor \\ (Ri \ge 10 \; k \Omega \; / \; V) \end{array}$	For Witschi Q 6000: the motor LED lights up at each impulse.	Impulses per minute at the integrated circuit output 1 per second.	Measured with checked battery.
		1,20 µA	Movement consumption	Measured without battery, external supply, 1.55 V
	10 µA	Jump of four steps every four seconds until supply voltage < 1,30 V	EOL. Consumption higher than normal.	Measurement without battery, with supply voltage < 1.40 V, EOL function after ~ 2 minutes.
3		0,5 μΑ	Operation of the time setting stem switch in position 3	Measured without battery, external supply, 1.55 V.
	2 V	≤ 1,30 V Bring the R/T point and track ⊙. Control of motor with 8 steps/sec at 1.55 V and 32 steps/ sec under voltage ≤ 1,30 V (EOL).	Lower limit for operating voltage.	Measured without battery, variable external supply, starting with 1.55V, continually reduce voltage until movement stops.
4	• 10 k $\Omega$	1,3 - 1,8 k $\Omega$	Coil continuity	
5	200 µA	110 - 155 µA	Coil isulation	Measured without battery.
1	mmeters with measuring bient temperature 20°0	g voltage greater than 0.40V inappro C.	priate; recommended voltage 0.20\	Ι.

Adjustment of the operation by inhibition. The operation can only be measured with a device used to measure intervals of 60 seconds or multiples of 60 seconds. The rate must be measured with ambient temperature between 20°C and 30°C.

## Modifications of Technical Guide for Calibre 1532

Technical Guide versions				
Date of first edition:	07.05.2007	Version A		pelrom
Date of second edition:	22.01.2008	Version B	Made by:	no nolou i
Date of last edition:	24.10.2008	Version C		rendav

Modifications of Technical Guide version B		
Old (version A) New (version B)		
	Additional Kit second wheel + intermediate wheel ref. 7221530D9999*.	

Modifications of Technical Guide version C	
Old (version B)	New (version )
	All the information's that are mentioned in red have been modified or updated.