

Technical Guide

TG-19-C-053-E

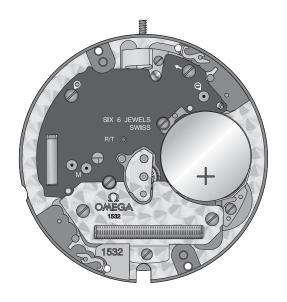
D

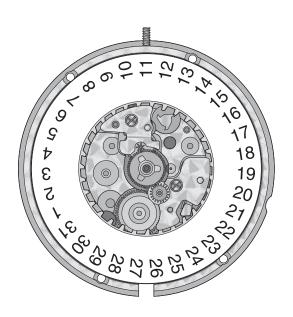
Prod. by: pelrom Date: 21.07.2011 3

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



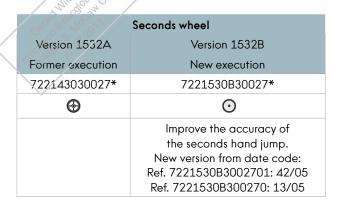


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Modifications of Technical Guide for Calibre 1532







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.

Version A / B / C



Ref. 722143030012 Ref. 7221530B30027* Old seconds wheel (grey) and intermediate wheel (yellow)

Version D



Kit Ref. 7221530D9999* New seconds wheel (yellow) and intermediate wheel (grey).

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. 1447014)

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 0017

Tweezers

Plastic tweezers 502 310 0051

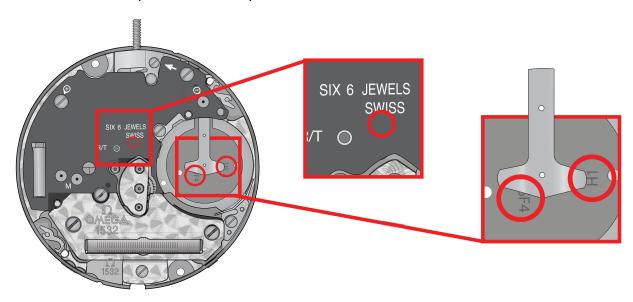




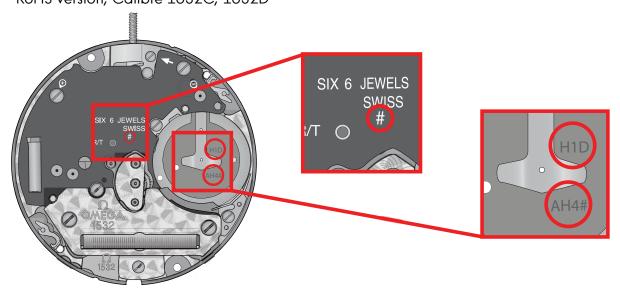


Differences between a non-RoHS version and a RoHS version

Non-RoHS version, Calibre 1532A, 1532B



RoHS version, Calibre 1532C, 1532D





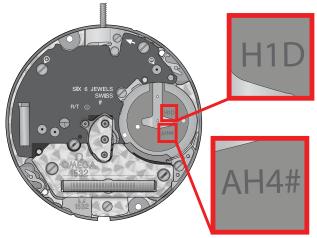
Mileou Osyrico.		
	Version	Référence
Figur wheel	1532A	
mesa lilat VI	1532B	
(a)	1532C	722143031046*
	1532D	
Battery	Version	Reference
,	1532A	
	1532B	
(+)	1532C	1447014
	1532D	
Battery insulator	Version	Reference
,	1532A	
	1532B	
	1532C	72214302065100
	1532D	
Bridle insulator	Version	Reference
	1532A	
	1532B	
	1532C	72214302065118
	1532D	
Ridle	Version	Reference
	1532A	
	1532B	
	1532C	72214209035
9	1532D	
Hand setting stem	10020	
Ø 0.90 mm / L 15.00 mm	Version	Reference
	1532A	
	1532B	72214305102021
	1532C	72214305102021
	1532D	
Hand setting half-stem movement side, beak	Version	Reference
	1532A	
⊃ —⊨	1532B	72214305102126
	1532C	, ZZ1400010Z1Z0
	1532D	
Ridle screw	Version	Reference
	1532A	
_	1532B	72200003987
T	1532C	/ 220000370/
	1532D	
Kit second wheel + intermediate wheel	Version	Reference
Transvir Transvir	1532A	-
Jannana, Jan	1532B	_
30.012 30.027*	1532C	_
Kif 7221530D9999*	1532D	7221530D9999*
0.1000	10020	, 2210000 / / 11





1.0 Information on height of hands

Fig. 1.0



Hand height (H1) and version (D)

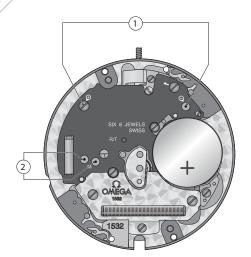
Manufacturing code

1.1 Runners for hand setting and hand setting force

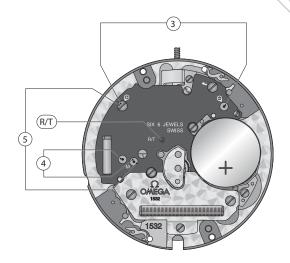
Description	Movement holder for hand setting	No of runners for hand setting	Minimum force (N)	Maximum force (N)	Support (jewel)
Hours hand		4	10	55	no
Minutes hand	507 0023	2	10	55	no
Seconds hand		1	10	30	yes



Fig. 2.0



2.0 Electrical tests



Pos.	Setting of apparatus	Measurement	Test	Remarks	
1	2 V (Ri \geq 10 k Ω / V)	1,55 V	Battery voltage	Measured with battery	
2	$\begin{array}{c} 1 \text{V} \\ \text{(Ri \geq 10 k$} \Omega / \text{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 μΑ	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 (7/1) 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 kΩ	1,3 - 1,8 kΩ	Coil continuity	Magazza d with out hottor:	
5	200 μΑ	110 - 155 μΑ	Coil isulation	Measured without battery.	

[•] Ohmmeters with measuring voltage greater than 0.40V inappropriate; recommended voltage 0.20V. Ambient temperature 20°C.

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

Catholic State Con	Technical G	uide versions	,	2-0 1/6 Quon
Date of first edition:	07.05.2007	Version A		selrom
Date of second edition:	22.01.2008	Version B]	0 0
Date of third edition:	24.10.2008	Version C	Made by:	rendav
Date of last edition:	21.07.2011	Version D		

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.	

Modifications of Technical Guide version D		
Old (version C) New (version)		
Ref. 1449936	Pictures (KIT) exchanged on the page 3 and new reference for the battery: Ref. 1447014	

