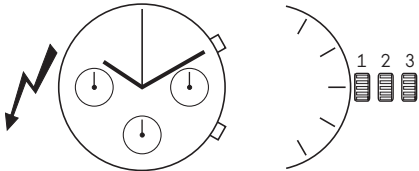
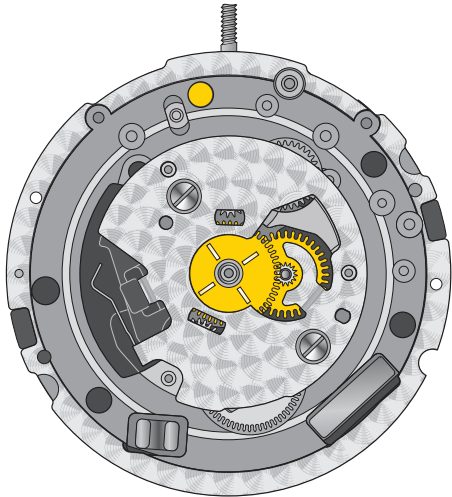
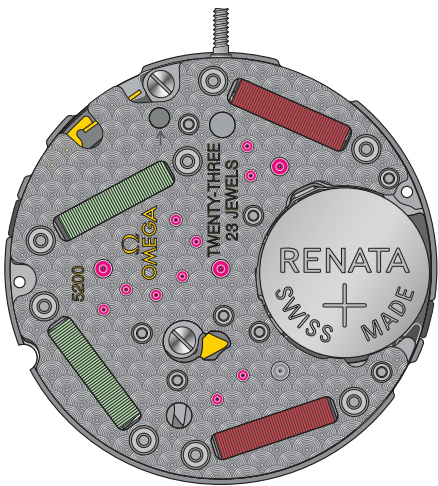


	Technical Guide		TG-19-C-052-E	A
	Prod. by: pelrom	Date: 23.05.2007		

CALIBRE 5200

	Version A	Version B
<div>10 1/2'''</div> <div>Ø 23.90 mm</div>		
Height on movement	4.70 mm	
Number of rubies	23	
RoHS model	No	Yes



Omega personalised quartz movement, featuring circular graining, rhodium-plating and gilded engraving. Three-hand display - hours, minutes and seconds. Chronograph with minute and 30-minute counters and 1/10 second and 60 second counters. Rate adjustment by inhibition. Stepper motor, with sixty impulses per minute. Chronograph with two push-pieces. Time zone. ADD, SPLIT.

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Differences between 5200A and 5200B	4
Spare parts list for Calibre 5200	5
Electrical tests	7

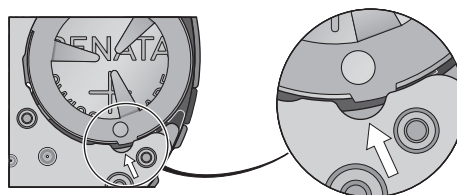


Major points

Information on the battery (ref. 1449917)

1,55 V	«Low Drain»
Ø 9,50 mm	H 3,60 mm
Renata	394
Vartachron	V394
UCAR, Energizer, Ray-O-Vac	394
Maxell, Sony, Panasonic	SR616SW

Battery limitation spring position



Points to comply with

The battery limitation spring **MUST** be used to keep the battery firmly in place.

Move the setting stem switch to position 3 to extract or insert the setting stem.

It is not recommended to remove the gear-train from the motor module without the specially-adapted holder, ref. 506 0005

Movement exchange is recommended

According to Working Instruction 31. Repair and movement exchange policy.

Information on setting of hands

The hands must be fitted by means of force-compensated broaches. All hands must be fitted with the appropriate movement-holder ref. 507 0041 with jewel support.

Mandatory tools :

Hand fitting

Movement-holder for fitting center & counter hands

Ref.

507 0041

Movement holder for hand setting

507 0041

Tweezers

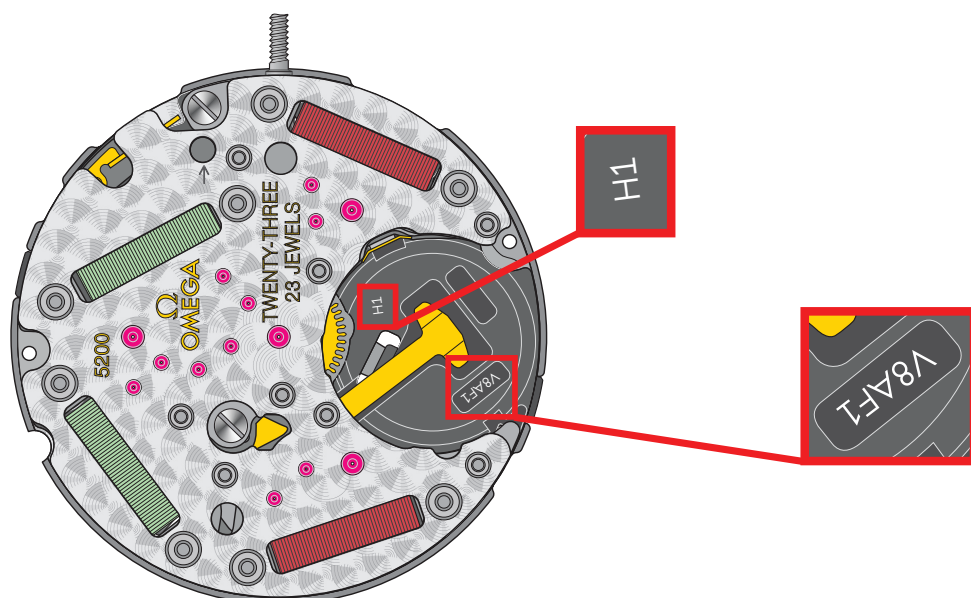
Plastic tweezers

502 310 0051

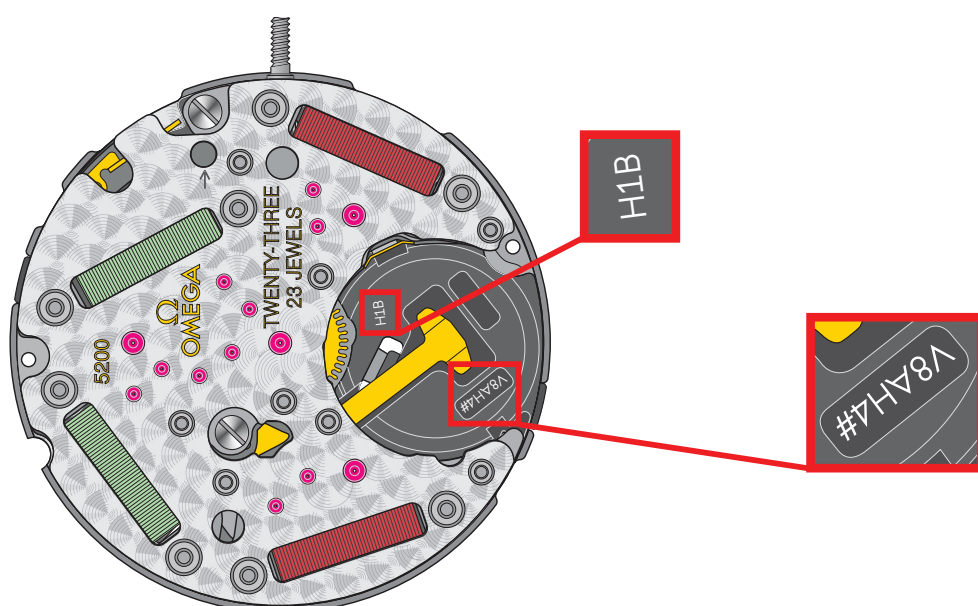
Differences between version 5200A and 5200B

Differences between a non-RoHS version and a RoHS version





Non-RoHS version, Calibre 5200A



RoHS version, Calibre 5200B

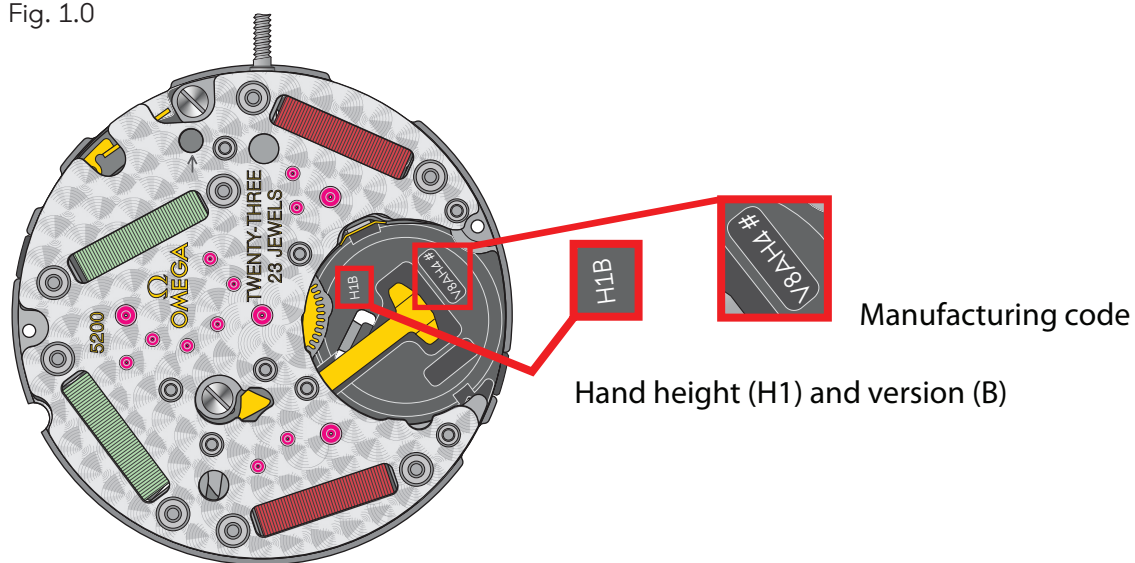


Spare parts list for Calibre 5200

Battery	Version	Reference
	5200A	1449917
	5200B	
Hand setting stem Ø 0.90 mm	Version	Reference
	5200A	722520051020
	5200B	
Battery limitation spring	Version	Reference
	5200A	722520010601
	5200B	
Screw for bridle +	Version	Reference
	5200A	72252003526
	5200B	

1.0 Information on height of hands

Fig. 1.0

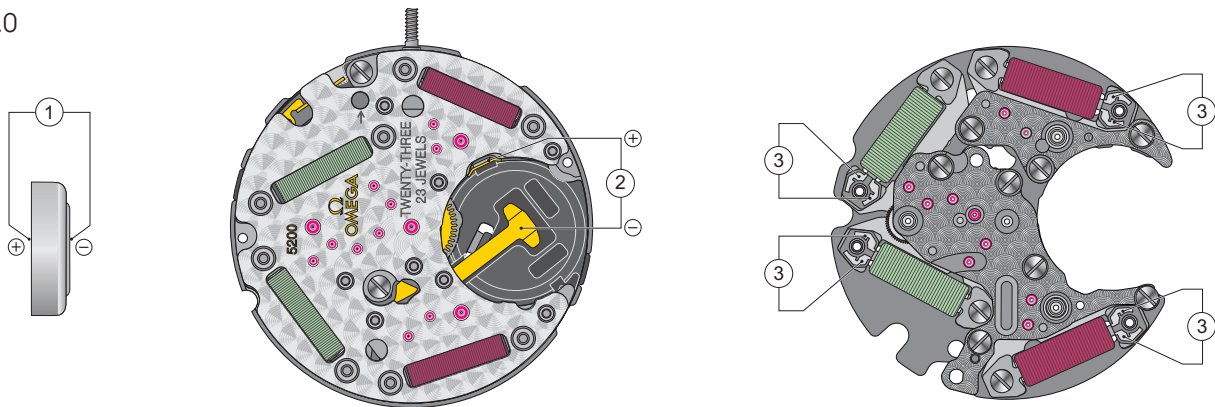


1.1 Runners for hand setting and hand setting force

Designation	Movement holder for hand setting	No of runners for hand setting	Minimum force (N)	Maximum force (N)	Support (jewel)
Hours hand	507 0041	5	10	30	no
Minutes hand		2	10	30	no
Seconds hand		1	10	20	yes
Hour counter hand		1	10	20	yes
Minute counter hand		1	10	20	yes
Chrono second hand		1	15	30	yes

2.0 Electrical tests

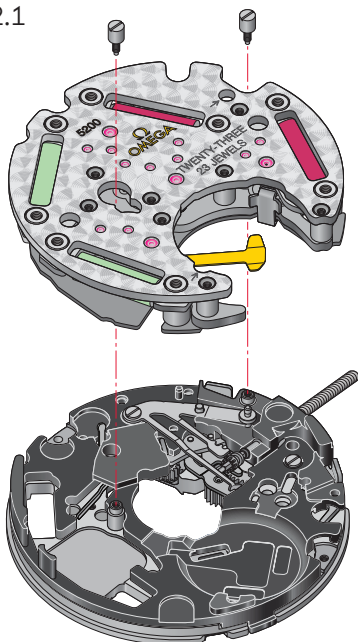
Fig. 2.0



Pos.	Setting of apparatus	Measurement	Test	Remarks
1	2 V ($R_i \geq 10 \text{ k}\Omega / \text{V}$)	1,55 V	Battery voltage	
2	10 μA	< 0,50 μA	IC current: Reset: stem position 3 = IC only.	Measured without battery, external supply, 1.55 V
		< 3,20 μA	Basic movement current: Stop chrono: stem position 1 = basic movement	
		< 5,80 μA	Current with chronograph activated: Start chrono (< 60 sec): stem position 1 = basic movement + second counter	
	2 V	$\leq 1,30 \text{ V}$	Lower limit for operating voltage. Counter reset to 0 (start)	Measured without battery, variable external supply, dropping by 1.55 V when motor(s) stopped.
3	$\bullet 10 \text{ k}\Omega$	ROUGE 1,5 - 2,1 $\text{k}\Omega$ VERT 1,2 - 1,8 $\text{k}\Omega$	Coil continuity	Coils are checked when the basic movement of the motor modul has been separated and the electronic module is dismantled, see Fig. 2.1

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

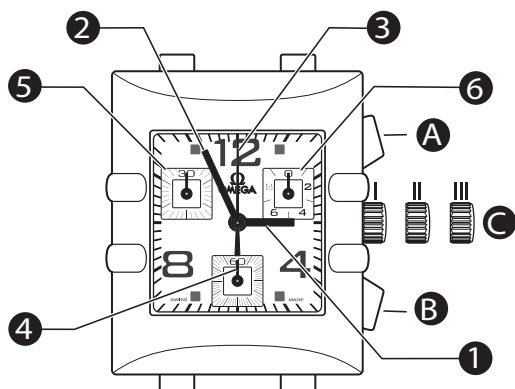
Fig. 2.1



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.

3.0 Display

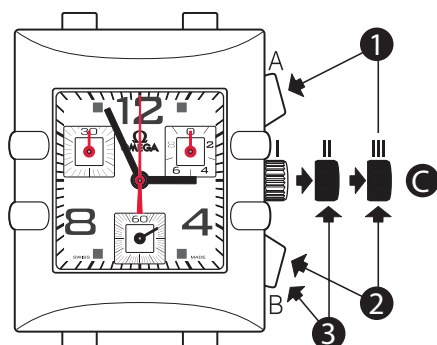
Watch hands



A	Pusher A (Start, Stop)
B	Pusher B (Reset, Split second)
C	Crown position I, II, III
1	Hour hand
2	Minute hand
3	60 second counter
4	Second hand
5	30 minute counter
6	1/10 second counter

3.1 Counter initialisation

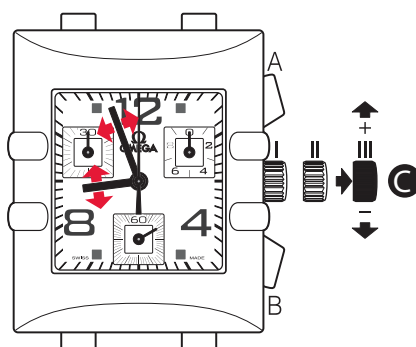
Crown in position II or III



1	Initialisation of the 60-second counter hand
2	Initialisation of the 1/10-second counter hand
3	Initialisation of the 30-minute counter hand

3.2 Setting the time

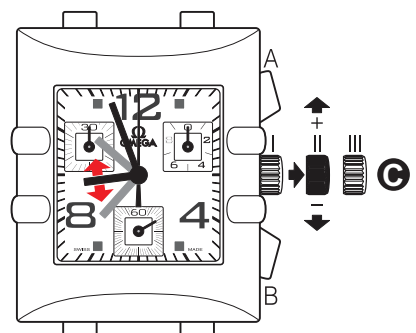
Crown in position III



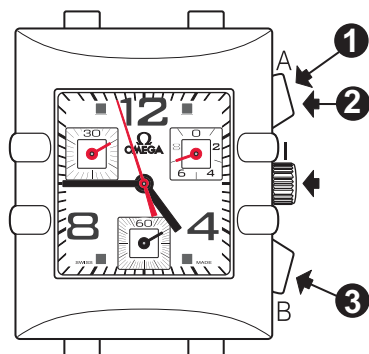
C	Setting the hour and minute hand
	Stop second

3.3 Correction mode

Crown in position II



C	Time zone correction
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3.4 Timing mode, timing function

Crown in position I

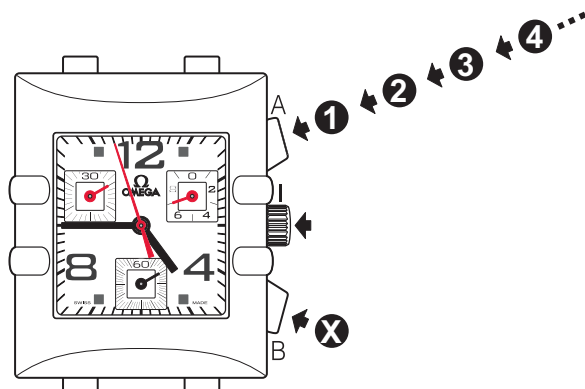
①	START
②	STOP Reading the time Example: - 5 minutes - 57 seconds - 7/10 second
③	RESET

Caution:

The chronograph hands must be in their original position before starting a new timing operation.
See: **Counter initialisation (3.1)**

3.5 Timing mode, addition function (ADD)

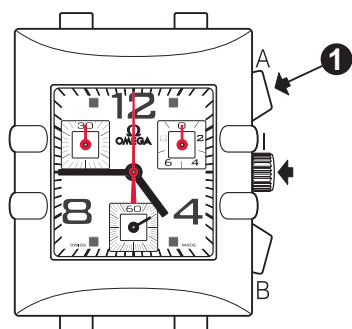
Crown in position I



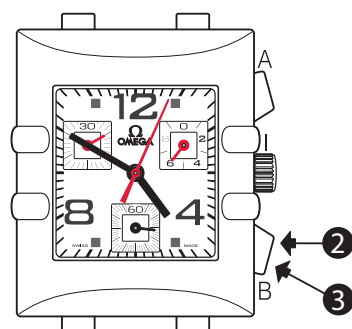
①	START
②	STOP - Reading the time
③	RESTART Timing restarts
④	STOP - Reading the time The chronograph indicates the total time
X	Reset

3.6 Timing mode, split-second function

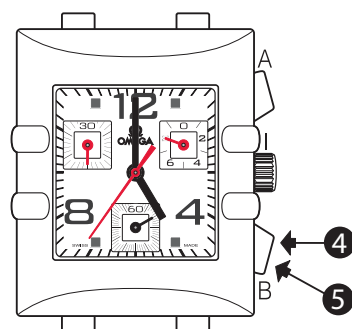
Crown in position I



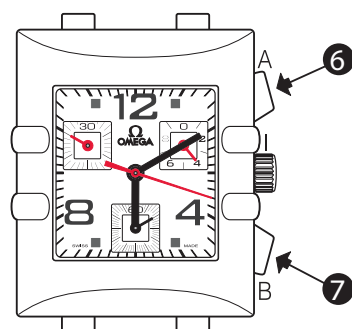
1	START
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2	STOP 1: Reading the intermediate time Example time 1: - 5 minutes - 4 seconds - 6/10 seconds
3	RESTART (split-second) The chronograph hands make up the time elapsed during the reading.



4	STOP 2: Reading the intermediate time Example time 2: - 15 minutes - 36 seconds - 8/10 seconds
5	RESTART (split-second) The chronograph hands make up the time elapsed during the reading.



6	STOP 3: Reading the final time For the last stop and display of total time. Example of final time: - 25 minutes - 18 seconds - 4/10 seconds
7	RESET