

Quartz Movements

Multifunctions

RONDA xtratech

Caliber 4220.B – 12½"



Product Specifications

Analog quartz movement

Line xtratech

Caliber 4220.B

Size 12½"

Version Swiss Made 7 Jewels / gold plated

Standard battery life 54 months

Standard hand fitting height 2

Features

- Repairable metal watch movement
- Power saving mechanism with pulled out stem:
Reduction of consumption approximately 70%
- Very easy handling by one pusher
- Big date with quick change

Functions

- Multifunction
- Second time zone
- Big date
- Small second
- 2 hands

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RONDA xtratech

Caliber 4220.B – 12½"

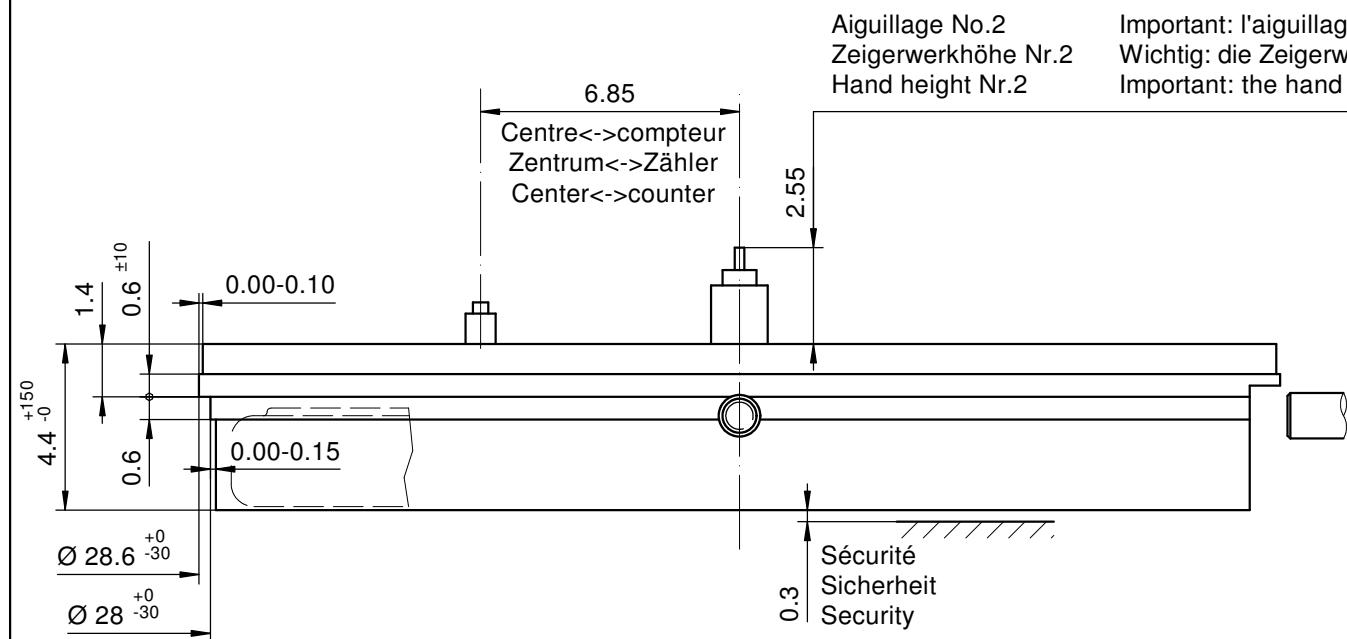
Technical Specifications

Diameter Total	28.60 mm
Case fitting	28.00 mm
Movement height	4.40 mm
Height over standard battery	4.40 mm
Movement rest	0.60 mm
Height over stem	1.90 mm
Length of stem travel	0.90 mm
Stem thread	0.90 mm
Useful torque second – typical	6 µNm
Useful torque minute – typical	300 µNm
Operating temperature	0 - 50 °C
Instantaneous rate	-10/ +20 sec/month
Resistance to magnetic fields	18.8 Oe
Resistance against shock	NIHS 91-10



Battery Specifications

Standard battery	No. 395
Standard battery life	54 months
Battery voltage	1.5 V
Current consumption – typical	1.32 µA (Date Mechanism not in Gear)
Current consumption – maximum	1.65 µA (Date Mechanism not in Gear)



Important: l'aiguillage peut varier selon le modèle
Wichtig: die Zeigerwerkhöhe kann bei verschiedenen Modellen unterschiedlich sein
Important: the hand height can vary between different models

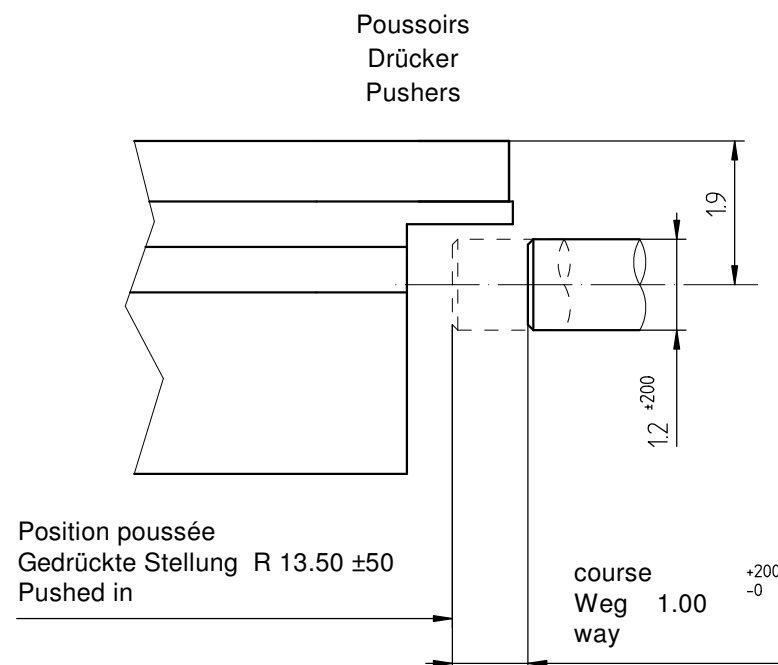
Sécurité entre l'aiguille des secondes et le verre:
Sicherheit zwischen Sekundenzeiger und Glas: 0.30mm
Security between second hand and glass:

Le cadran doit être tenu par la boîte
Das Zifferblatt muss durch die Schale gehalten werden
The dial must be hold by the case

La course du poussoir doit être limitée dans le poussoir lui-même. Sa position poussée doit être contrôlée.

Die Weglänge des Drückers ist im Drücker selbst zu begrenzen. In der gedrückten Stellung ist seine Position zu kontrollieren

The way of the pusher has to be limited in the pusher itself. Its position must be checked while pushed in.

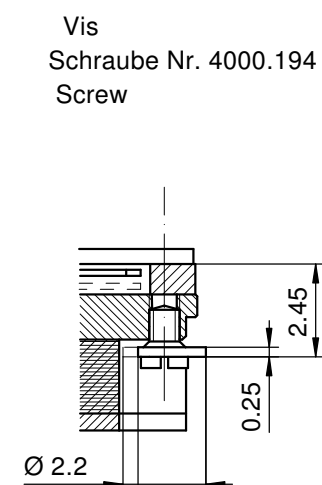
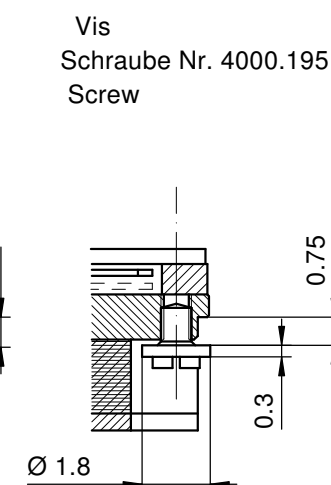
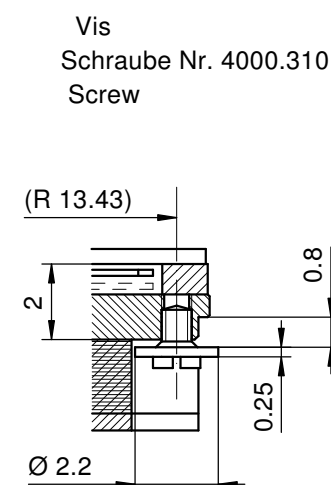
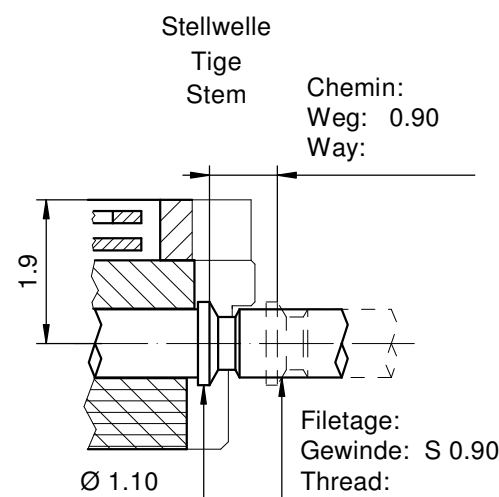


Côté fond de boîte
Seite Gehäuseboden
Case back side
Position pour extraire la tige
Position zum Entfernen der Stellwelle
Position to remove the stem

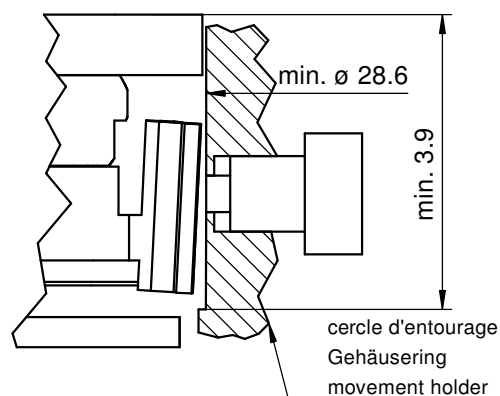
Pile
Batterie (395) Ø 9.50 x 2.60mm
Battery



Seulement 1 poussoir est nécessaire
Nur 1 Drücker wird benötigt
Only 1 pusher is required



Dégagement cercle d'entourage pour poussoir
Freistellung Gehäuse ring für Drücker
Opening movement holder for pusher



L'angle indiqué pour la direction du poussoir et la position doivent être respectés.
Pour un angle de 0° des poussoirs A et B, voir plan 5000.345

Der angegebene Winkel für die Drückerrichtung und die Position müssen eingehalten werden.
Für einen Drückerwinkel von 0° bei A und B, siehe Zeichnung 5000.345

The indicated angle of the pusher direction and the position must be fulfilled. For pusher angles of 0° (pusher A and B), see drawing 5000.345.

Cage
Urwerkgestell 12½"
Frame

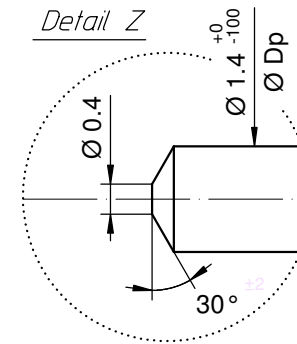
RONDA 4220.B

Issued	02 Mär 2004	mk
Modified	05 Sep 2016 ÄÄ 34777	dh
Released	YES	
Tolerance	+/- 20 µm	
Scale	10 : 1 (5 : 1) (A3H)	
Sous réserve de modifications Äenderungen vorbehalten Modifications reserved		
No.	5000.348	02

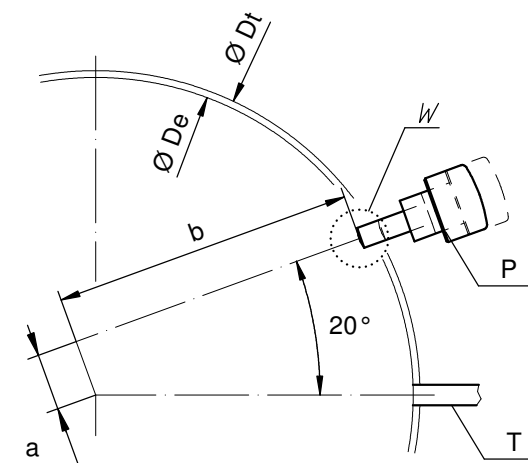
Angle Winkel Angle	30°	
Ø Dp	b	
1.00	13.50	
1.10	13.50	
1.20	13.50	
1.30	13.50	
1.40	13.50	



Angle Winkel Angle	0°	
Ø Dp	a	b
1.30	7.40	11.43
1.40	7.45	11.40



Angle Winkel Angle	20°	
Ø Dp	a	b
1.30	2.57	13.22
1.40	2.59	13.21



Ø De: diamètre d'encageage
Durchmesser der Gehäusepassung
fitting-diameter

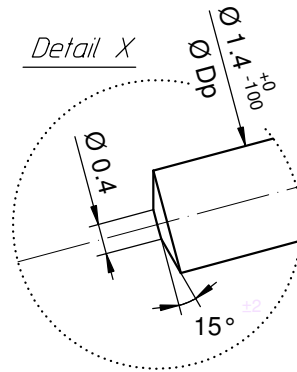
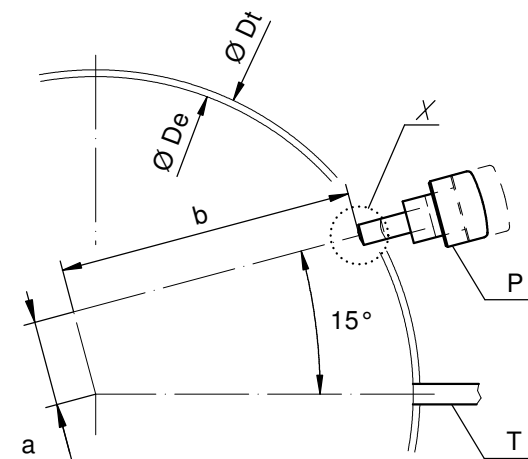
Ø Dp: diamètre du poussoir
Drückerdurchmesser
pusher-diameter

Ø Dt: diamètre total
Totaldurchmesser
total-diameter

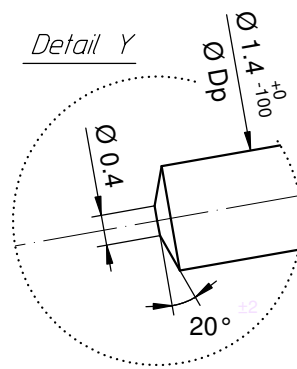
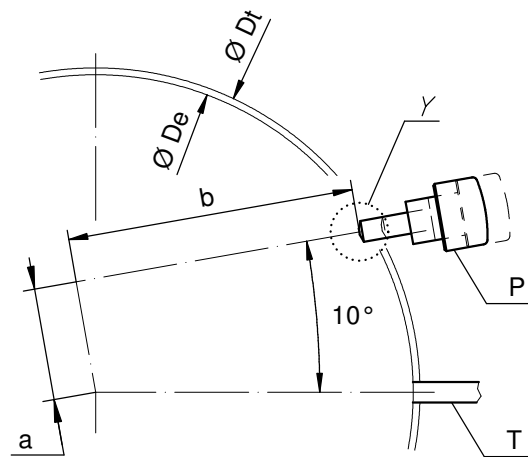
P: poussoir en position poussée
Drücker in gedrückter Stellung
pusher in pressed position

T: tige de mise à l'heure
Stellwelle
stem

Angle Winkel Angle	15°	
Ø Dp	a	b
1.30	3.83	12.92
1.40	3.86	12.91



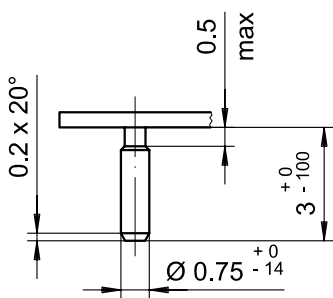
Angle Winkel Angle	10°	
Ø Dp	a	b
1.30	5.06	12.52
1.40	5.10	12.50



Angle des poussoirs A et B
Winkel der Drücker A und B
Angle of pusher A and B

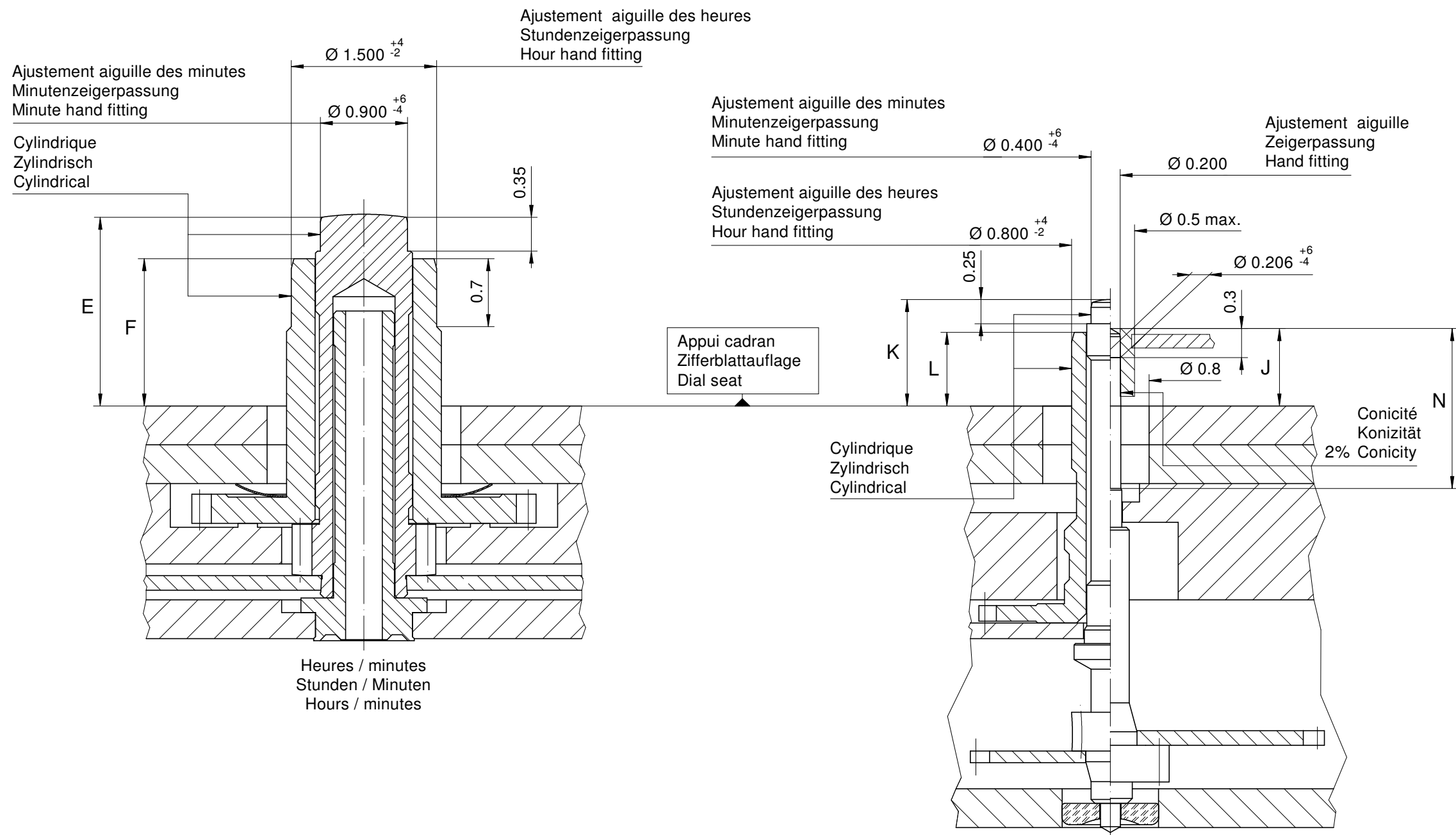
RONDA 4xxx.x, 5xxx.x

Issued	06 Sep 2004	mk
Modified	30.März 2005 ÄA 1784	mk
Released	YES	
Tolerance	+/- 20 µm	
Scale	10 : 1 (5 : 1) (A3H)	
Sous réserve de modifications Änderungen vorbehalten Modifications reserved		
No.	5000.345	01



Tige	Date
Stellw.	Datum
Stem	Date
3H	6H
	<input type="text"/>

Cadran Zifferblatt Dial		Issued		13 Dez 2006	cw
		Modified		15.Dez.2006 ÄÄ ----	cm
		Released		YES	
		Tolerance		+/- 20 µm	
		Scale		5 : 1 (A4V)	
RONDA	4220.B	Sous réserve de modifications Änderungen vorbehalten Modifications reserved			
		No.	5010.698	01	



Heures / minutes
Stunden / Minuten
Hours / minutes

Compteur 2 aiguille
2 Zeiger Zähler
2 Hand counter

Petite seconde
Kleine Sekunde
Small second

		Aig. des minutes Minutenzeiger Minute hand	Aig. des heures Stundenzeiger Hour hand	Compteur 2 aiguille 2 Zeiger Zähler 2 Hand counter		Aig. petite secondes Kleine Sekundenzeiger Small second hand	Lors de la pose d'aiguilles, le mouvement doit être soutenu. Beim Zeigersetzen muss das Werk abgestützt werden. The movement needs to be supported for hand setting.
		Aig. des minutes Minutenzeiger Minute hand	Aig. des heures Stundenzeiger Hour hand	Aig. des minutes Minutenzeiger Minute hand	Aig. des heures Stundenzeiger Hour hand	Aig. petite secondes Kleine Sekundenzeiger Small second hand	
mg	max.	30	30	10	10	10	Masse / Masse / Weight *
µNm	max.	0.80	0.80	0.03	0.03	0.07	Balourd / Unwucht / Unbalance *
gmm ²	max.	-	-	1.0	-	0.4	Inertie / Massenträgheit / Inertia *
N	max.	40	40	30	30	30	Force de chassage / Aufpresskraft / Force

Aiguillages Zeigerwerkhöhe Hand fitting height						
Dépassement Höhe über Zifferblattauflage Height over dial seat						
No	Chaussée Minutenrohr Cannon-pinion	Roue des heures Stundenrad Hour wheel		Compteur 2 aig. 2 Zeiger Zähler 2 Hand counter		
				Chaussée Minutenrohr Cannon-pinion	Roue des heures Stundenrad Hour wheel	Petite seconde Kleine Sekunde Small second
2	E	F	N	K	L	J
2	1.95	1.52	1.65	1.10	0.76	0.80
-						

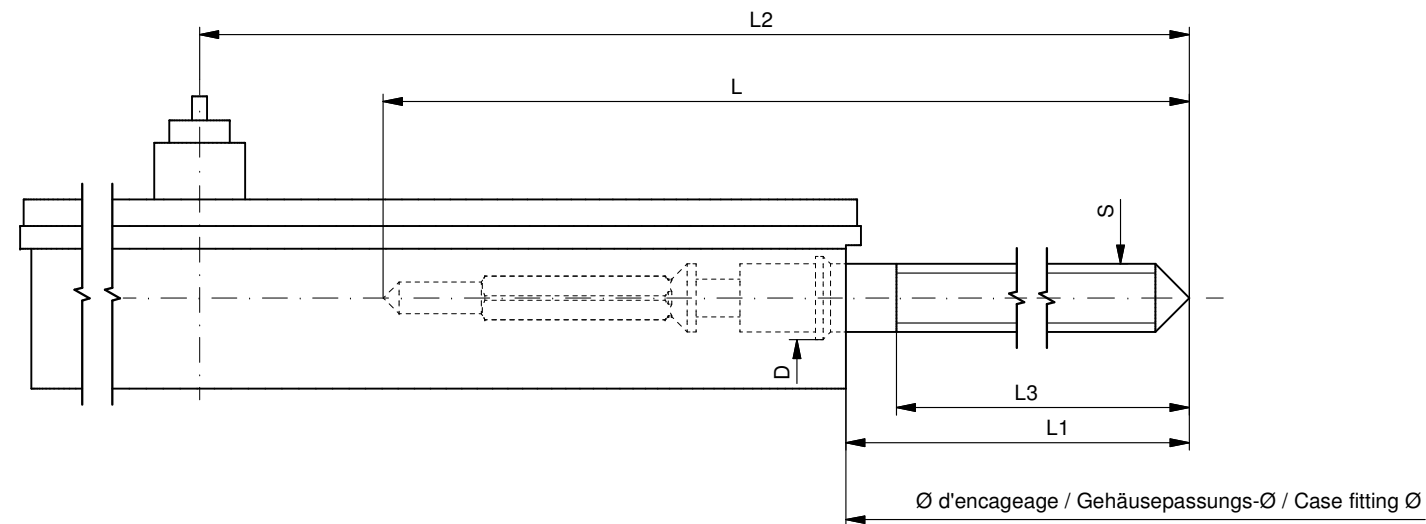
Aiguillages Zeigerwerkhöhe Hand fitting height						
Peinture comprise / inkl. Farbe / Paint included						
Epaisseur maximum du cadran Maximale Zifferblattdicke Maximum dial thickness						
No	Sous l'aiguille des minutes Unter Minutenzeiger Under minute hand	Sous l'aiguille des heures Unter Stundenzeiger Under hour hand	Compteur 2 aig. 2 Zeiger Zähler 2 Hand counter	Sous l'aiguille des minutes Unter Minutenzeiger Under minute hand	Sous l'aiguille des heures Unter Stundenzeiger Under hour hand	Sous l'aiguille de petite seconde Unter kleine Sekundenzeiger Under small second hand
2	1.50	1.10	0.70	0.40	0.40	0.15
-						

Aiguillages Zeigerwerkhöhe 12½" Hand fitting heights		Issued	14 Nov 2003	mk
		Modified	15 Okt 2014 ÄA 13275	dh
		Released	Yes	
		Tolerance	µm	
		Scale	20 : 1 (A3H)	
RONDA	4120.B, 4220.B	Sous réserve de modifications Änderungen vorbehalten Modifications reserved		
		No.	3316.083	04

* En cas de données différentes, veuillez contacter le service après-vente

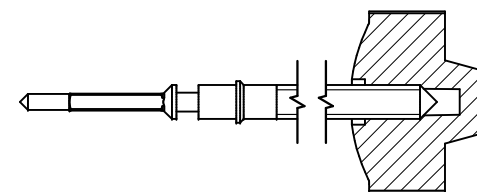
* Bei abweichenden Werten, bitte technischen Kundendienst anfragen

* In case of different values, please contact the customer service



Tige de travail (intégrée dans le mouvement)
Arbeitsstellwelle (im Werk eingebaut)
Working stem (implemented in the movement)

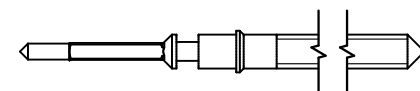
No. d'article Artikelnummer Part number	L	L1	L2	L3	S	D
3000.177.CO	20.00	10.23	24.23	10.15	0.90	1.10



Couleur de la couronne Kronenfarbe Crown color	bleu foncé dunkelblau dark blue
Code	UN 5002

Tige (normale) / Stellwelle (normal) / Stem (normal)

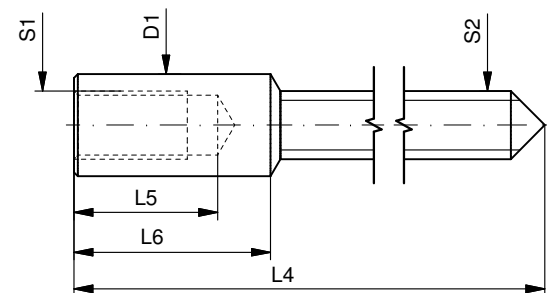
No. d'article Artikelnummer Part number	L	L1	L2	L3	S	D
3000.177	20.00	10.23	24.23	10.15	0.90	1.10
3000.191	32.00	22.23	36.23	22.15	0.90	1.10



Couronne vissée Geschraubte Krone Screwed crown	
Force ⇐ min. Kraft ⇐ min. Force ⇐ min.	10 N
Force ⇐ max. Kraft ⇐ max. Force ⇐ max.	15 N

Rallonge de tige / Stellwelle Verlängerung / Stem extension

No. d'article Artikelnummer Part number	L4	L5 (min)	L6	S1	S2	D1
3000.040	12.00	1.90	2.60	0.90	0.90	1.35



Tige (dimensions / forces)
Stellwelle (Dimensionen / Kräfte)
Stem (dimensions / forces)

RONDA

4002.B, 4003.B, 4120.B,
4210.B, 4220.B

Issued	05 Sep 2012	ds5222
Modified	17 Mär 2017 ÄA 34582	mg5224
Released	YES	
Tolerance	---	
Scale	10:1 (A3)	
Sous réserve de modifications Änderungen vorbehalten Modifications reserved		
No.	5030.018	02



Movement holder
Removing setting stem
H5XXX.1T



Movement holder
Setting hands
H5XXX.1A

Fitting dial and hands

- Crown in position II
- Wind crown, until date 02 appears
- Crown in position III
- Wind hour hand forwards, until date changes to 03
- Remove working stem
- Fit dial
- Point all hands towards 12 o'clock
- Set time
- Crown in position II
- Set date
- Install second time zone**
- Crown in position I

Date switching duration:

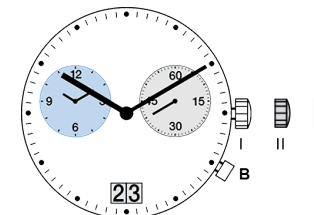
First and tenth digit discs

~2hrs

**Installing second time zone

- Activate pusher B for at least 2 seconds
(You are in active mode, if small minute hand jumps forward 1 min.)
- Install second time zone, using pusher B:
 - Short press (< 1 sec.) → +1 minute
 - Medium press (1-2 secs.) → +1 hour
 - Long press (> 2 secs.) → continuous time display

Details: See Instruction Manual



General Instructions

Removing the setting stem can only be effected in Pos. I.

The use of supporting screws is essential when mounting the hands.

Permitted hand setting strengths:

Hr / min. hands: <40N

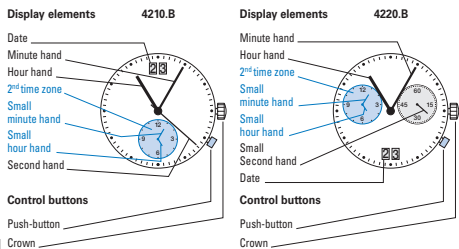
Other hands: <30N

During quick date correction (setting stem in position II), a date switching speed of 5 d/s must not be exceeded.

You have decided to buy a watch, which was assembled by a watchmaker using a Ronda movement. Please note that no watches are produced or distributed under the Ronda brand.

In case of repairs, guarantee claims and questions concerning the functioning of a watch, purchasers and consumers should contact their retailer or the watch manufacturer, for which the relevant information can be found in the sales or guarantee documentation provided with the watch.

Description of the display and control buttons



Setting the date/time

Example:
 - Date / time on the watch: 17 / 1:25 AM
 - Present date / time: 04 / 8:30 PM

- 1 Pull out the crown to position II (the watch continues to run).
- 2 Turn the crown until yesterday's date appears 03.
- 3* Pull out the crown to position III (the watch stops).
- 4 Turn the crown until the correct date 04 appears.
- 5** Continue to turn the crown until the correct time 8:30 PM appears.
- 6 Push the crown back into position I.

Please note:

- * To set your watch to the exact second, please refer to the chapter entitled «setting the time».
- ** Please observe the AM/PM clock rhythm.

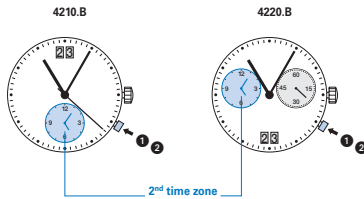
Setting the time

- 1* Pull out the crown to position III (the watch stops).
- 2 Turn the crown until you reach the correct time 8:45.
- 3* Push the crown back into position I.

Please note:

* In order to set the time to the exact second, 1 must be pulled out when the second hand is in position «60». Once the hour and minute hands have been set, 3 must be pushed back into position I at the exact second.

Setting the 2nd time zone



Any 2nd time zone can be set using the small hour hand and small minute hand.

- 1 **Activation:** Press the push button for at least 2 seconds.
 As soon as the small minute hand jumps forward one minute, this mode of operation is activated.
- 2 **Brief pressing:** (less than 1 second)
 Moves forward individual minutes.
Medium pressing: (1 to 2 second)
 Moves forward 1 hour.
Long pressing (longer than 2 seconds)
 The time zone is moved forward until the push button is released.

Please note:

If the push button is not pushed for ten seconds, the setting mode is deactivated. Please see point no 1 for activation.

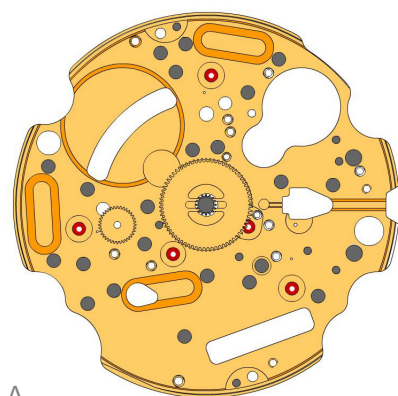
Setting the date (quick mode)

- 1 Pull out the crown to position II (the watch continues to run).
- 2 Turn the crown until the correct date 01 appears.
- 3 Push the crown back into position I.

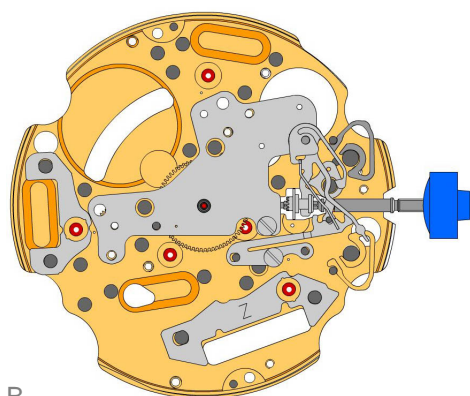
Please note:

During the date changing phase between approx. 9 PM and midnight, the date must be set to the date of the following day.

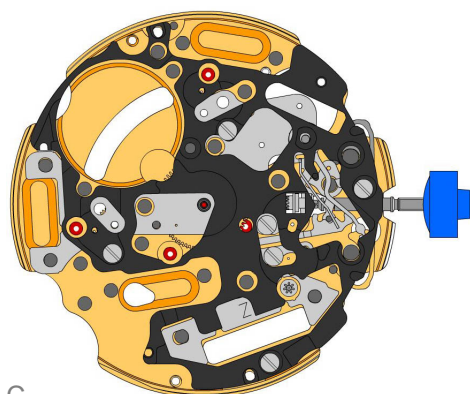
An extreme acceleration in setting the date with quick mode can induce a false date indication. The synchronization is re-established by setting the date from 01 till 31 (crown in position II).






A



















B

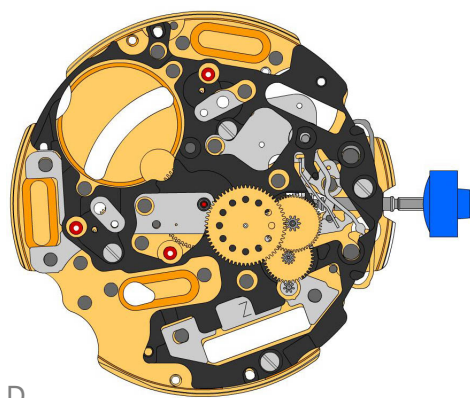


C

2000.574.G		Main plate
1.		
3305.290.CO		Cannon pinion with driver (Aig.2, closed)
2.		
3301.243		Hour wheel (counter 12h)
3.		

2030.017.CO		Centre bridge
4.		Centre bridge held by 1 screw 4000.250. Parts 2030.017.CO, 3004.223 and 3500.059 must be exchanged together.
4000.250		Screw
5.		
3001.055.FI		Sliding pinion
6.		
3000.177.CO		Setting stem
7.		
3017.049		Setting lever
8.		
3905.049		Setting lever jumper (3 positions) Setting lever jumper tenue par 1 vis 4000.250.
9.		
4000.250		Screw
10.		
3015.081		Yoke (3 positions)
11.		
3905.067		Yoke spring Tensioning the spring arm. Parts 3015.081 and 3905.067 must be exchanged together.
12.		
3406.030		Pusher jumper B Put the grey jumper between the two posts on the further side.
13.		
3406.038		Pusher jumper A Put the yellow jumper between the two posts on the closer side.
14.		
3622.040		Stator Mark [Z] on stator.
15.		
3622.039		Stator (counter 6h, 9h, chrono)
16.		

3603.079		Plastic bracket
17.		Plastic bracket held by 1 screw 4000.250.
4000.250		Screw
18.		
3715.094.RK		Rotor
19.		




D

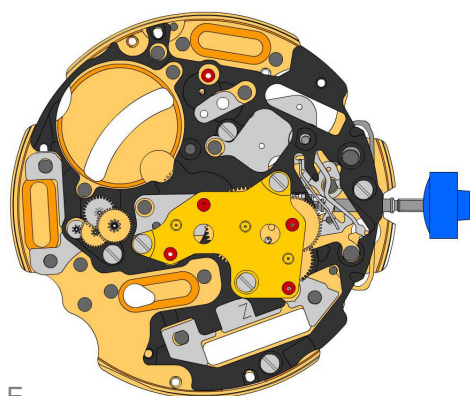
3147.046.CO
20.  Intermediate wheel

3136.142.CO
21.  Second wheel (long)

3122.056.CO
22.  Third wheel


2020.148.G
23.  Train wheel bridge
Train wheel bridge held by 3 screws 4000.250.

4000.250
24.  Screw




E

3715.095.RK
25.  Rotor

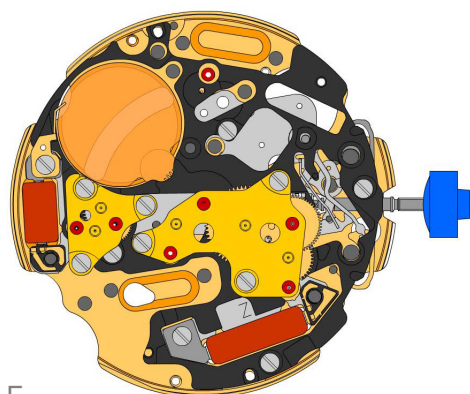
3147.048.CO
26.  Intermediate wheel (counter)

3007.055.CO
27.  Minute wheel (counter 12h)


3402.007.CO
28.  Minute counting wheel (12h)


2020.149.G
29.  Counter train wheel bridge
Counter train wheel bridge held by 3 screws 4000.250.

4000.250
30.  Screw



F

3621.053.RK
31.  Coil
Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.

3621.054.RK
32.  Coil (counter 9h, chrono)
Attention: Please hold the coil only on the grey coil core.

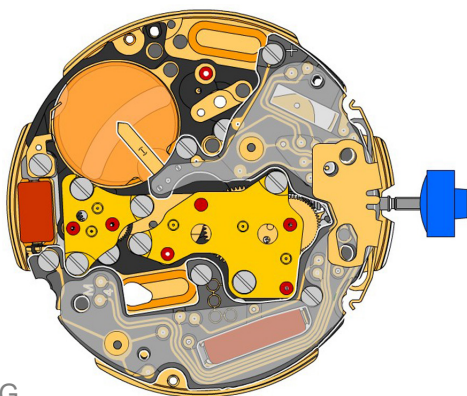
3601.118
33.  Contact strip
Contact strip held by 1 screw 4000.250.

4000.250
34.  Screw





3503.054
35.  Tube

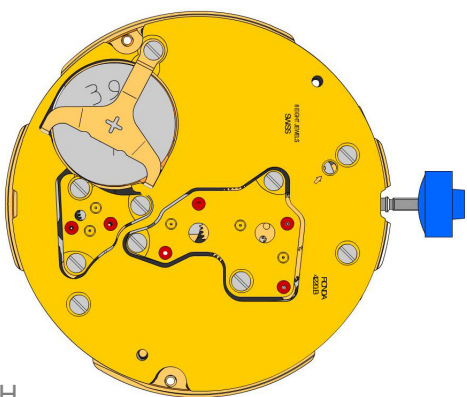
3503.054
36.  Tube

3603.034
37.  Battery insulator







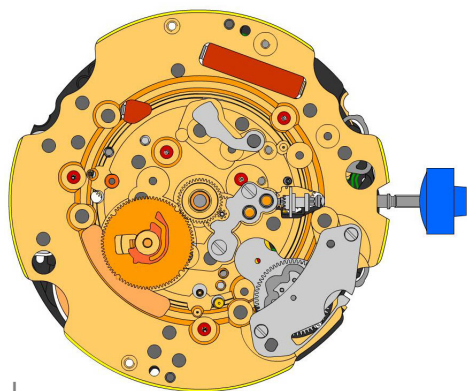
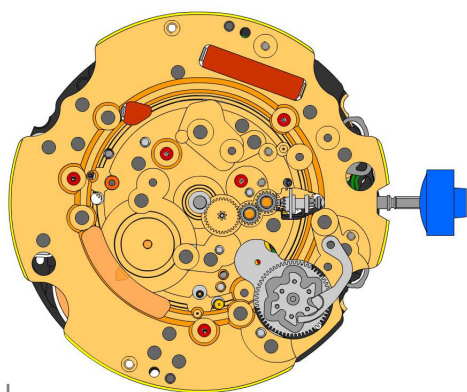
G















3612.144.4220 38.		Electronic module Electronic module held by 5 screws 4000.248. Electronic measurements may be realised now.
4000.248 39.		Screw
3603.069 40.		Circuit insulator
3601.107.G 41.		Pusher contact spring

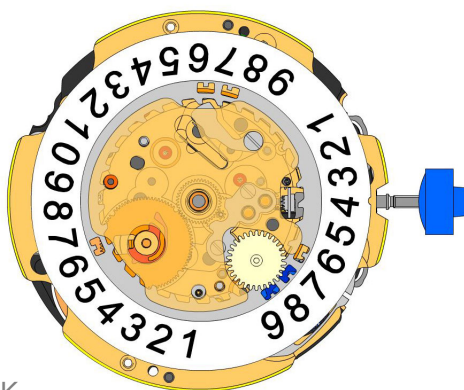


H

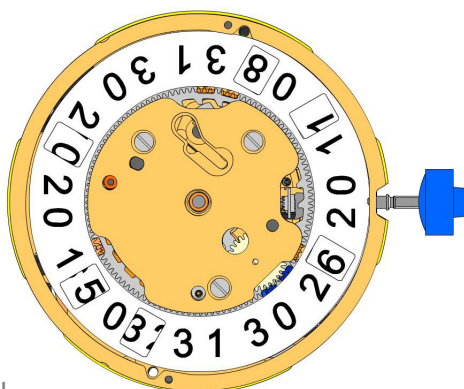
2130.138.G.M01.4220B 42.		Electronic module cover Electronic module cover held by 3 screws 4000.250.
3600.010.HGF 43.		Battery 395
3601.109.G 44.		Bridle + Bridle held by 1 screw 4000.250.
4000.250 45.		Screw



2000.574.G 46.		Main plate
3004.164 47.		Setting wheel
3004.164 48.		Setting wheel
3007.054.CO 49.		Minute wheel
2130.143 50.		Minute train bridge Minute train bridge held by 2 screws 4000.305.
4000.305 51.		Screw
3004.223 52.		Tens indicator driving wheel Parts 2030.017.CO, 3004.223 and 3500.059 must be exchanged together. The short tooth of the tens indicator driving wheel must point to the center of the movement.
3500.059 53.		Tens jumper Parts 2030.017.CO, 3004.223 and 3500.059 must be exchanged together.
2130.142 54.		Tens jumper maintaining plate Tens jumper maintaining plate held by 2 screws 4000.306. Tensioning the spring arm.
4010.306 55.		Screw
3301.242 56.		Hour wheel (Fig.2)
3315.016 57.		Friction spring
3004.224.CO 58.		Date indicator driving wheel
3500.049 59.		Date jumper



K



L

3504.214.AD.1.A
60. Units indicator (standard)
Nick of the indicator at 3 o'clock.



3147.054
61. Tens intermediate wheel



2130.141
62. Date indicator maintaining plate
Date indicator maintaining plate held by 1 screw 4000.250.



3905.070
63. Date jumper spring
Insert the date jumper spring in the provided opening.



3504.215.AD.1.A
64. Tens indicator (standard)
Nick of the indicator at 3 o'clock



2130.140.G
65. Date mechanism maintaining plate
Date mechanism maintaining plate held by 2 screws 4000.250.



4000.250
66. Screw



3506.072.G
67. Dial support



8200
68. Moebius 8200



9014
69. Moebius 9014

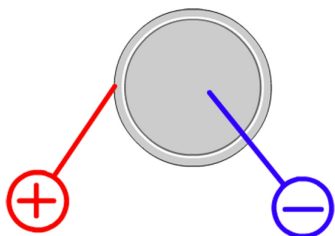


124
70. Jismaa 124

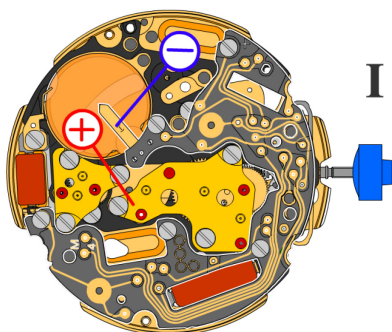


9020
71. Moebius 9020



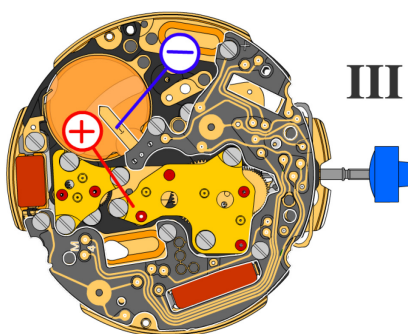


Battery	395
Voltage	1.55 V



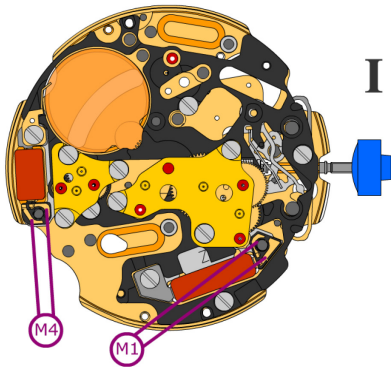
*Setting stem in position I, calendar not in gear,
60 s measuring interval for rate and consumption:*

Typical consumption	1.32 μA
Maximal consumption	1.65 μA
Rate	-10s/M. .. +20s/M.
Lower working voltage limit	1.20 V



Setting stem in position III, 60 s measuring interval:

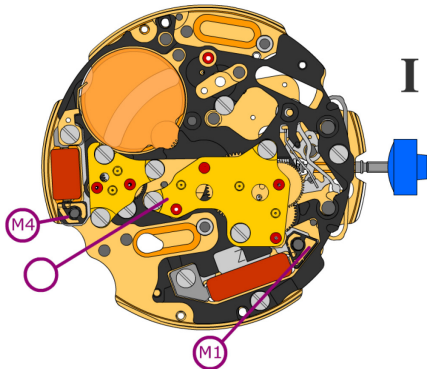
Typical consumption	0.10 μA
Maximal consumption	0.30 μA



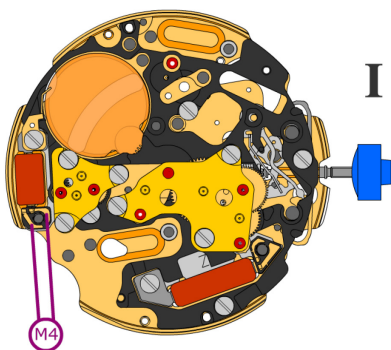
Coil resistance M1

1.90 k Ω .. 2.10 k Ω

Coil resistance M4

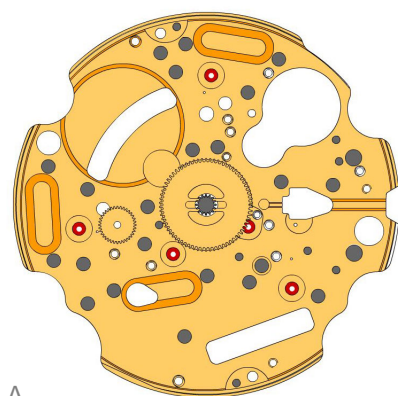
1.68 k Ω .. 1.88 k Ω


Coil isolation M1/M4

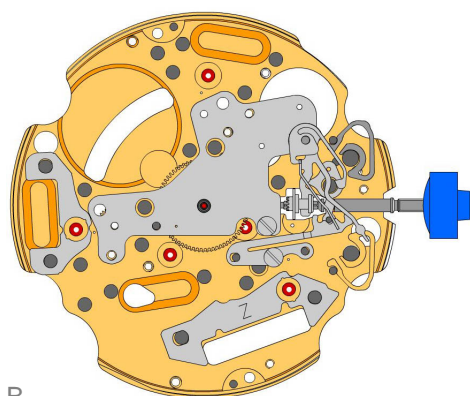
 ∞ k Ω

Signal generator (4.9 ms, 8 Hz):

Lower working voltage limit M4

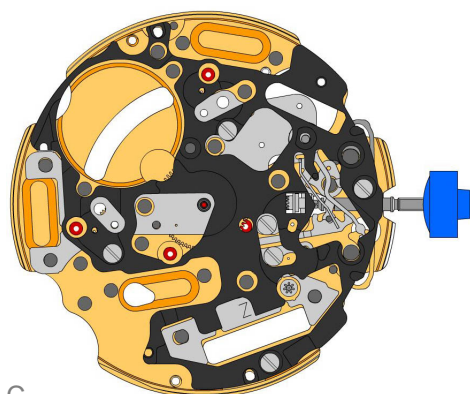
1.20 V






A



















B

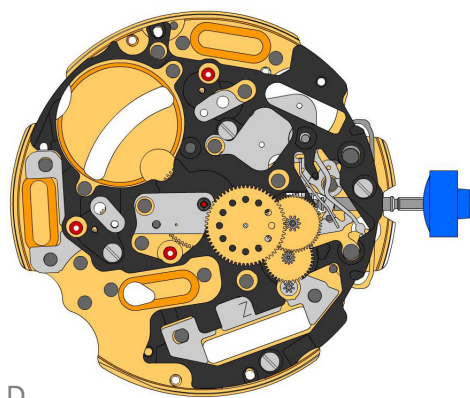


C

2000.574.G 1.		Main plate
3305.290.CO 2.		Cannon pinion with driver (Aig.2, closed)
3301.243 3.		Hour wheel (counter 12h)

2030.024.CO 4.		Centre bridge Centre bridge held by 1 screw 4000.250.
4000.250 5.		Screw
3001.055.FI 6.		Sliding pinion
3000.177.CO 7.		Setting stem
3017.049 8.		Setting lever
3905.049 9.		Setting lever jumper (3 positions) Setting lever jumper tenue par 1 vis 4000.250.
4000.250 10.		Screw
3015.081 11.		Yoke (3 positions)
3905.067 12.		Yoke spring Tensioning the spring arm.
3406.030 13.		Pusher jumper B Put the grey jumper between the two posts on the further side.
3406.038 14.		Pusher jumper A Put the yellow jumper between the two posts on the closer side.
3622.040 15.		Stator Mark [Z] on stator.
3622.039 16.		Stator (counter 6h, 9h, chrono)

3603.079 17.		Plastic bracket Plastic bracket held by 1 screw 4000.250.
4000.250 18.		Screw
3715.094.RK 19.		Rotor




D

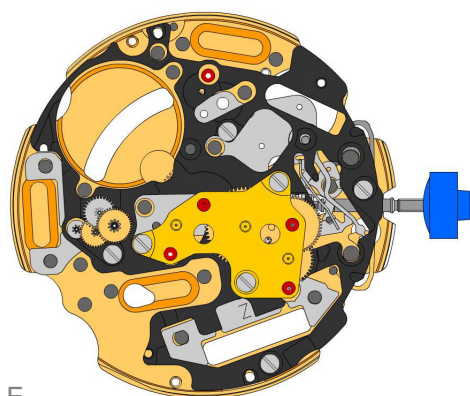
3147.046.CO
20.  Intermediate wheel

3136.142.CO
21.  Second wheel (long)

3122.056.CO
22.  Third wheel


2020.148.G
23.  Train wheel bridge
Train wheel bridge held by 3 screws 4000.250.

4000.250
24.  Screw




E

3715.095.RK
25.  Rotor

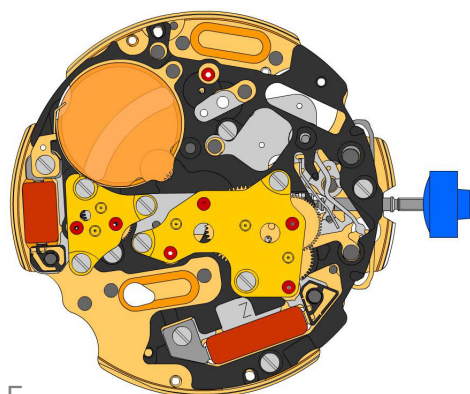
3147.048.CO
26.  Intermediate wheel (counter)

3007.055.CO
27.  Minute wheel (counter 12h)


3402.007.CO
28.  Minute counting wheel (12h)


2020.149.G
29.  Counter train wheel bridge
Counter train wheel bridge held by 3 screws 4000.250.

4000.250
30.  Screw



F

3621.053.RK
31.  Coil
Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.

3621.054.RK
32.  Coil (counter 9h, chrono)
Attention: Please hold the coil only on the grey coil core.

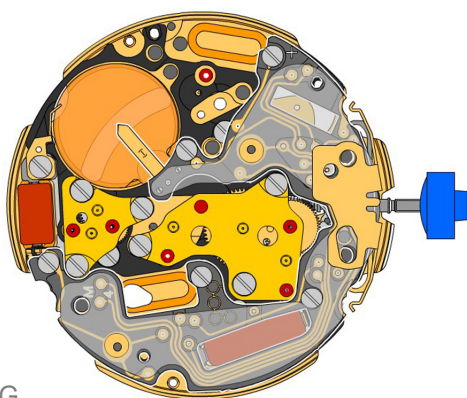
3601.118
33.  Contact strip
Contact strip held by 1 screw 4000.250.

4000.250
34.  Screw





3503.054
35.  Tube

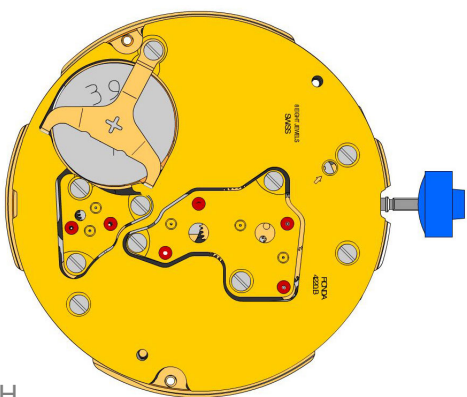
3503.054
36.  Tube

3603.034
37.  Battery insulator







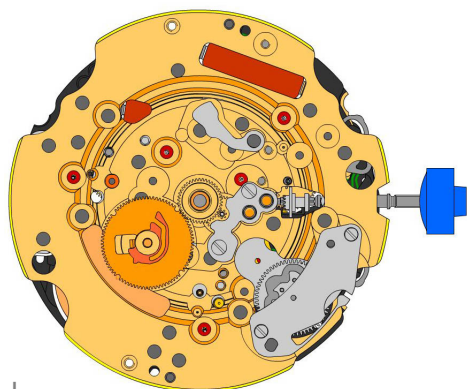
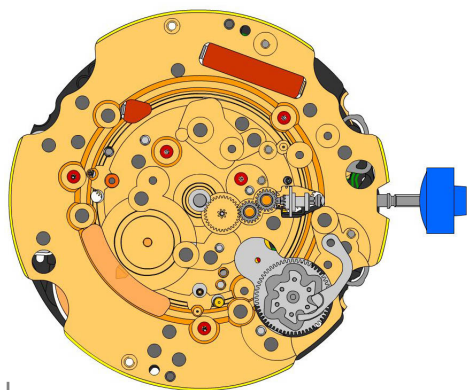
G






3612.144.4220 38.		Electronic module Electronic module held by 5 screws 4000.248. Electronic measurements may be realised now.
4000.248 39.		Screw
3603.069 40.		Circuit insulator
3601.107.G 41.		Pusher contact spring

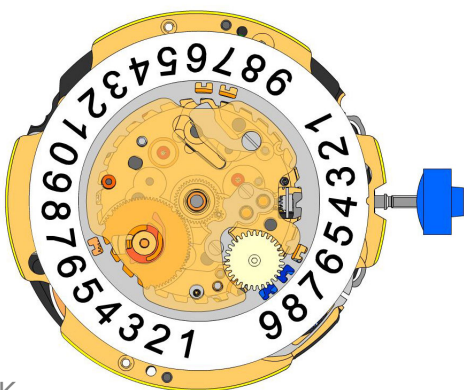


H

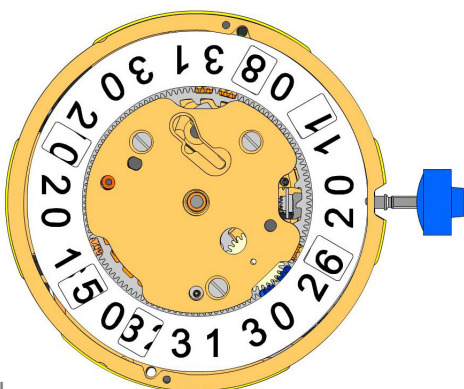
2130.138.G.M01.4220B 42.		Electronic module cover Electronic module cover held by 3 screws 4000.250.
3600.010.HGF 43.		Battery 395
3601.109.G 44.		Bridle + Bridle held by 1 screw 4000.250.
4000.250 45.		Screw



2000.574.G 46.		Main plate
3004.164 47.		Setting wheel
3004.164 48.		Setting wheel
3007.054.CO 49.		Minute wheel
2130.143 50.		Minute train bridge Minute train bridge held by 2 screws 4000.305.
4000.305 51.		Screw
3004.227 52.		Tens indicator driving wheel The short tooth of the tens indicator driving wheel must point to the center of the movement.
3500.075 53.		Tens jumper
2130.142 54.		Tens jumper maintaining plate Tens jumper maintaining plate held by 2 screws 4000.306. Tensioning the spring arm.
4010.306 55.		Screw
3301.242 56.		Hour wheel (Aig.2)
3315.016 57.		Friction spring
3004.224.CO 58.		Date indicator driving wheel
3500.049 59.		Date jumper



K



L

3504.214.AD.1.A
60. Units indicator (standard)
Nick of the indicator at 3 o'clock.



3147.054
61. Tens intermediate wheel



2130.141
62. Date indicator maintaining plate
Date indicator maintaining plate held by 1 screw 4000.250.



3905.070
63. Date jumper spring
Insert the date jumper spring in the provided opening.



3504.215.AD.1.A
64. Tens indicator (standard)
Nick of the indicator at 3 o'clock



2130.140.G
65. Date mechanism maintaining plate
Date mechanism maintaining plate held by 2 screws 4000.250.



4000.250
66. Screw



3506.072.G
67. Dial support



8200
68. Moebius 8200



9014
69. Moebius 9014



124
70. Jismaa 124

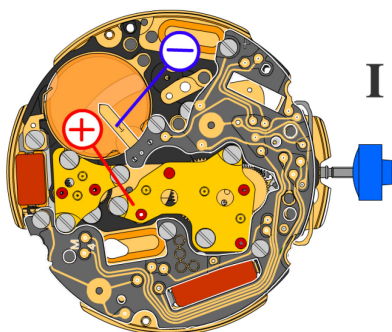


9020
71. Moebius 9020



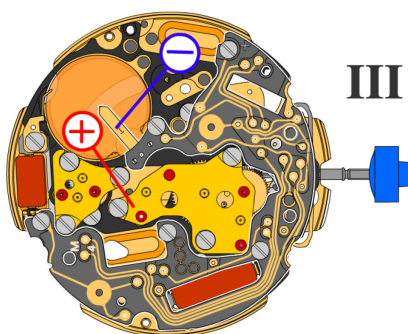


Battery	395
Voltage	1.55 V



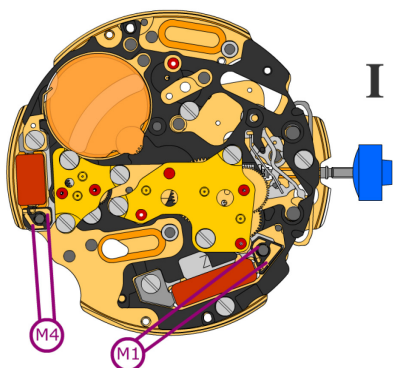
*Setting stem in position I, calendar not in gear,
60 s measuring interval for rate and consumption:*

Typical consumption	1.32 μA
Maximal consumption	1.65 μA
Rate	-10s/M. .. +20s/M.
Lower working voltage limit	1.20 V



Setting stem in position III, 60 s measuring interval:

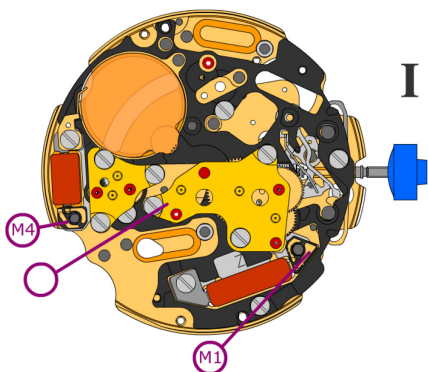
Typical consumption	0.10 μA
Maximal consumption	0.30 μA



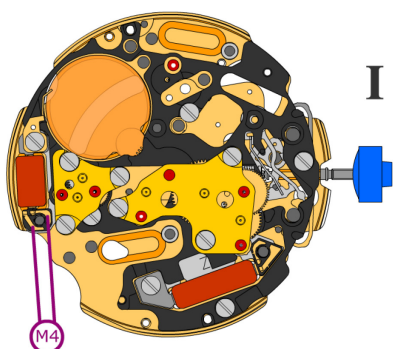
Coil resistance M1

1.90 k Ω .. 2.10 k Ω

Coil resistance M4

1.68 k Ω .. 1.88 k Ω


Coil isolation M1/M4

 ∞ k Ω

Signal generator (4.9 ms, 8 Hz):

Lower working voltage limit M4

1.20 V