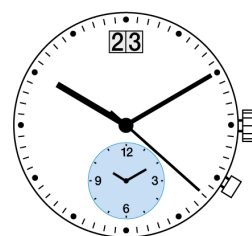


# RONDA startech 4000

Multifunctions with Big Date,  
Alarm, 2nd Time Zone

*Caliber 4210.B – 12½'''*



## Product Specifications

Analog quartz movement

Line

startech

Caliber

4210.B

Size

12½'''

Version Swiss Made  
Swiss Parts

8 Jewels / gold plated  
4 Jewels / nickel plated

Standard battery life

54 months

Hand fitting height

2

## Features

- Repairable metal watch movement
- Very long battery life
- Power saving mechanism with pulled out stem: Reduction of consumption approximately 70%
- Very easy handling by one pusher

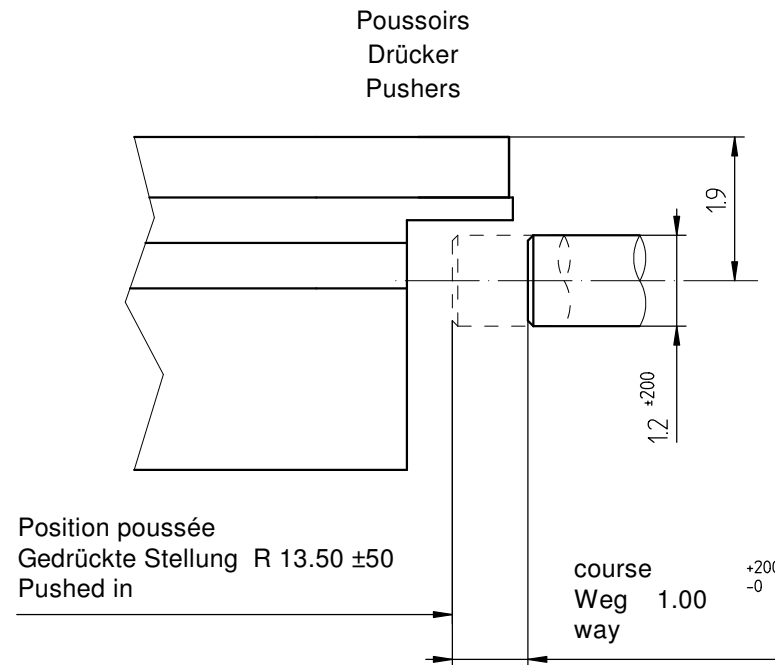
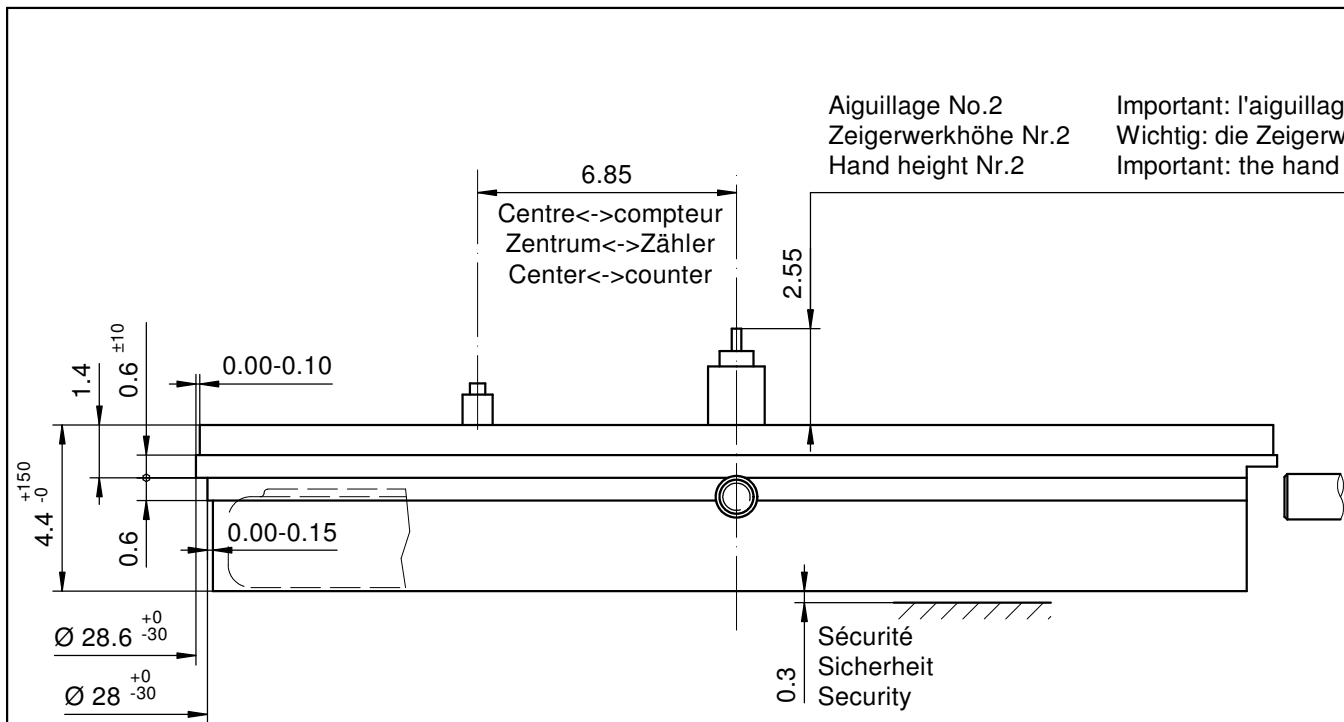
**Functions**

- 1 eye
- Multifunction
- Second time zone
- Big date

**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
Force to push the stem for screwed crown	10 / 15 N
Stem thread	0.90 mm
Standard battery	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)
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





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.

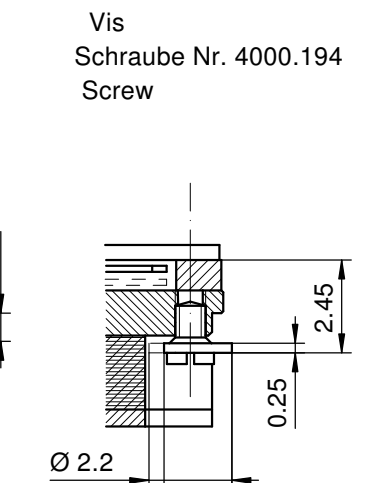
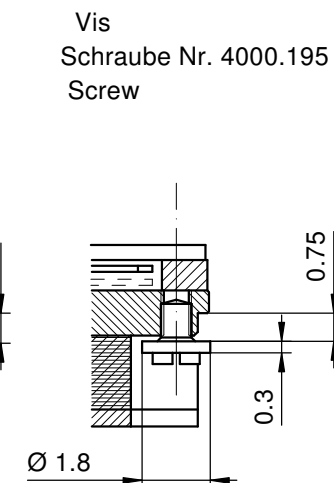
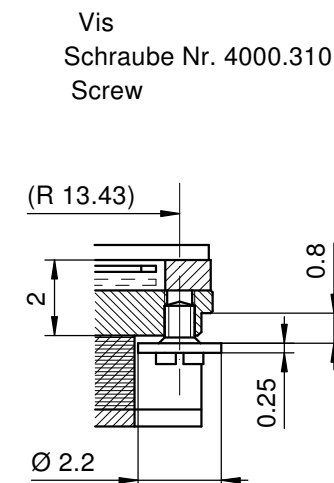
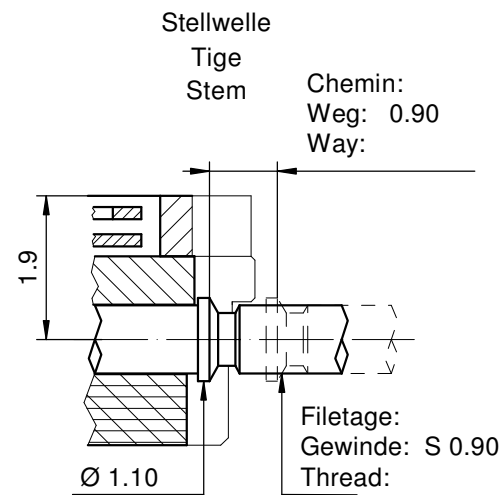
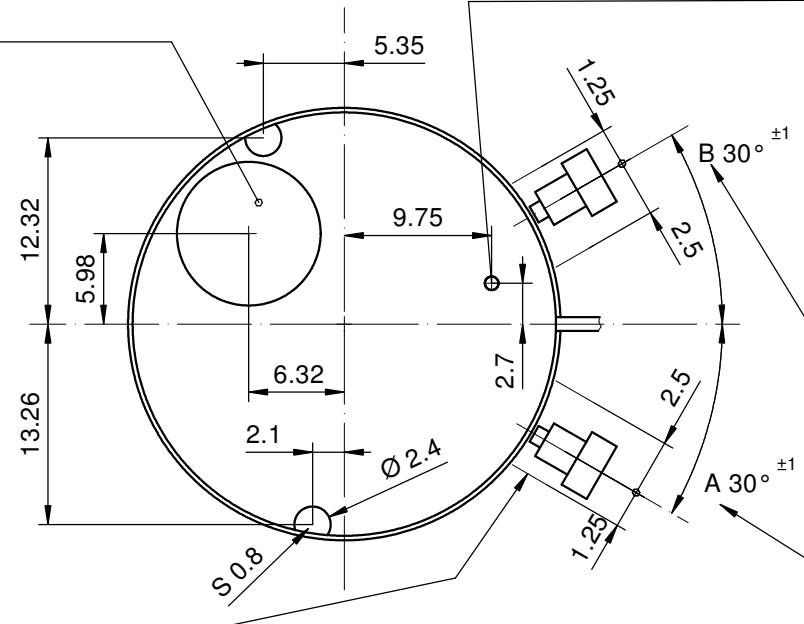
Die Weglänge des Drückers ist im Drücker selbst zu begrenzen. In der gedrückten Stellung ist seine Position zu kontrollieren

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

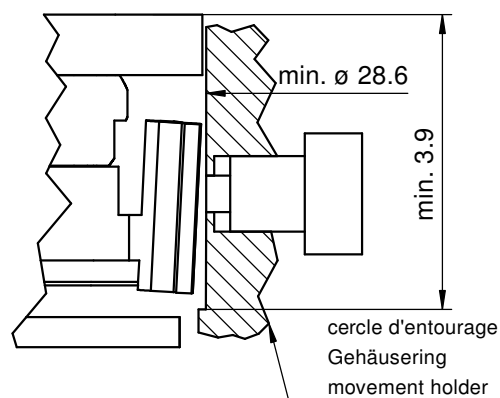
Côté fond de boîte  
Seite Gehäuseboden  
Case back side

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



Dégagement cercle d'entourage pour poussoir  
Freistellung Gehäuseering 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

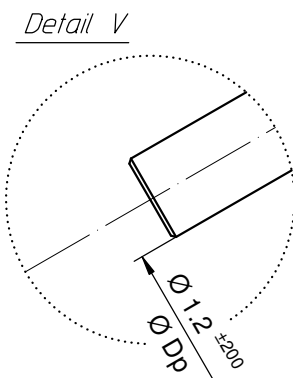
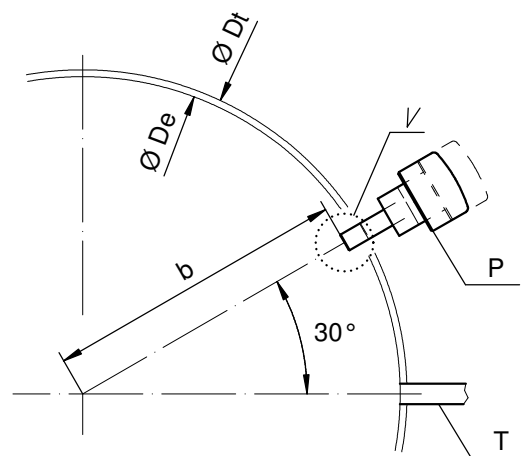
The indicated angle of the pusher direction and the position must be fulfilled. For pusher angles of 0° (pusher A and B), see drawing 5000.345.

Cage  
Uhrwerkgestell 12½"  
Frame

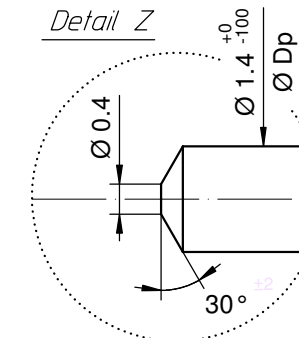
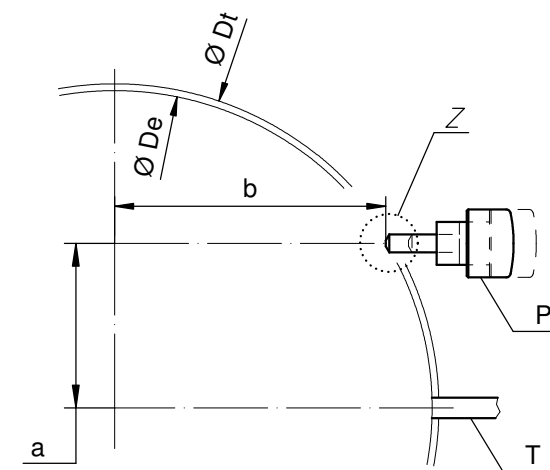
RONDA 4210.B

Issued	02 Mär 2004	mg
Modified	05 Sep 2016 ÄÄ 34777	dh
Released	YES	
Tolerance	+/- 20 µm	
Scale	10 : 1 (5 : 1) (A3H)	
Sous réserve de modifications Änderungen vorbehalten Modifications reserved		
No.	5000.331	04

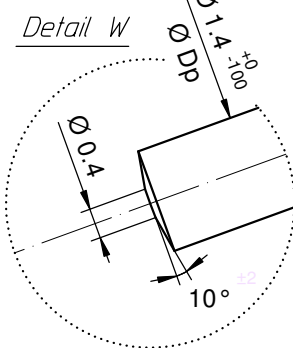
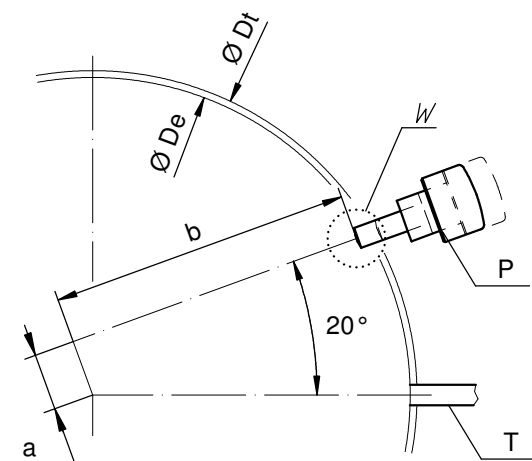
Angle Winkel Angle	30°	
Ø Dp	b	
1.00	13.50	
1.10	13.50	
1.20	13.50	
1.30	13.50	
1.40	13.50	



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

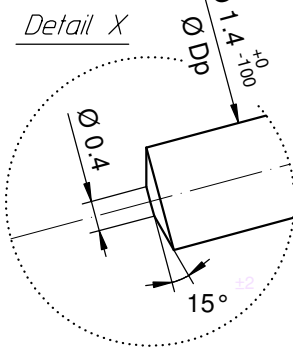
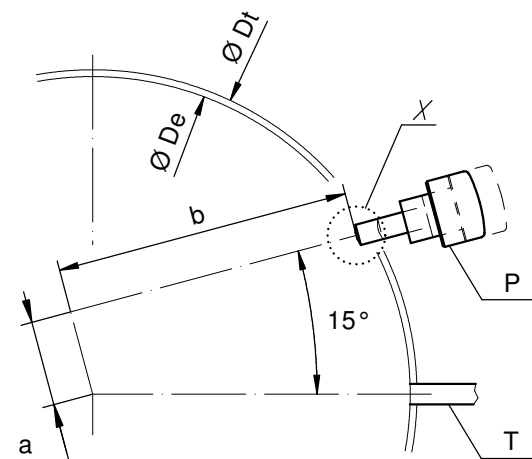
Ø Dp: diamètre du poussoir  
Drückerdurchmesser  
pusher-diameter

Ø Dt: diamètre total  
Totaldurchmesser  
total-diameter

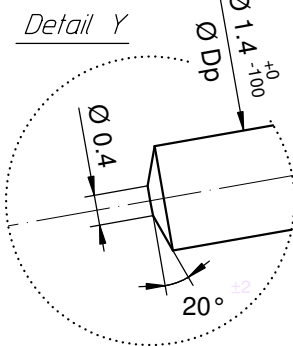
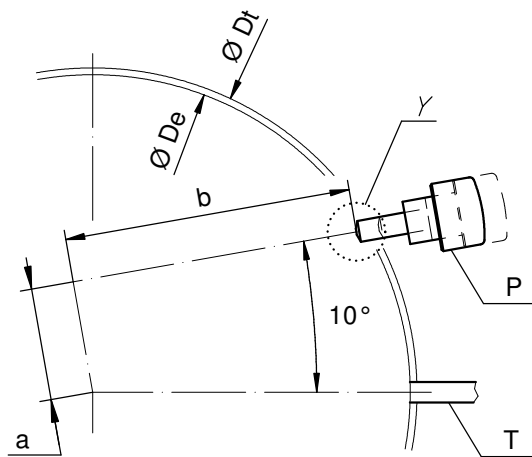
P: poussoir en position poussée  
Drücker in gedrückter Stellung  
pusher in pressed position

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



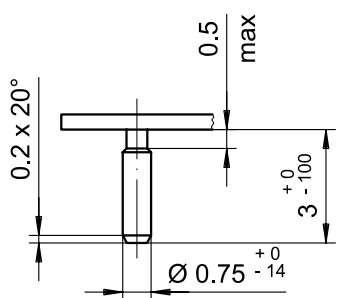
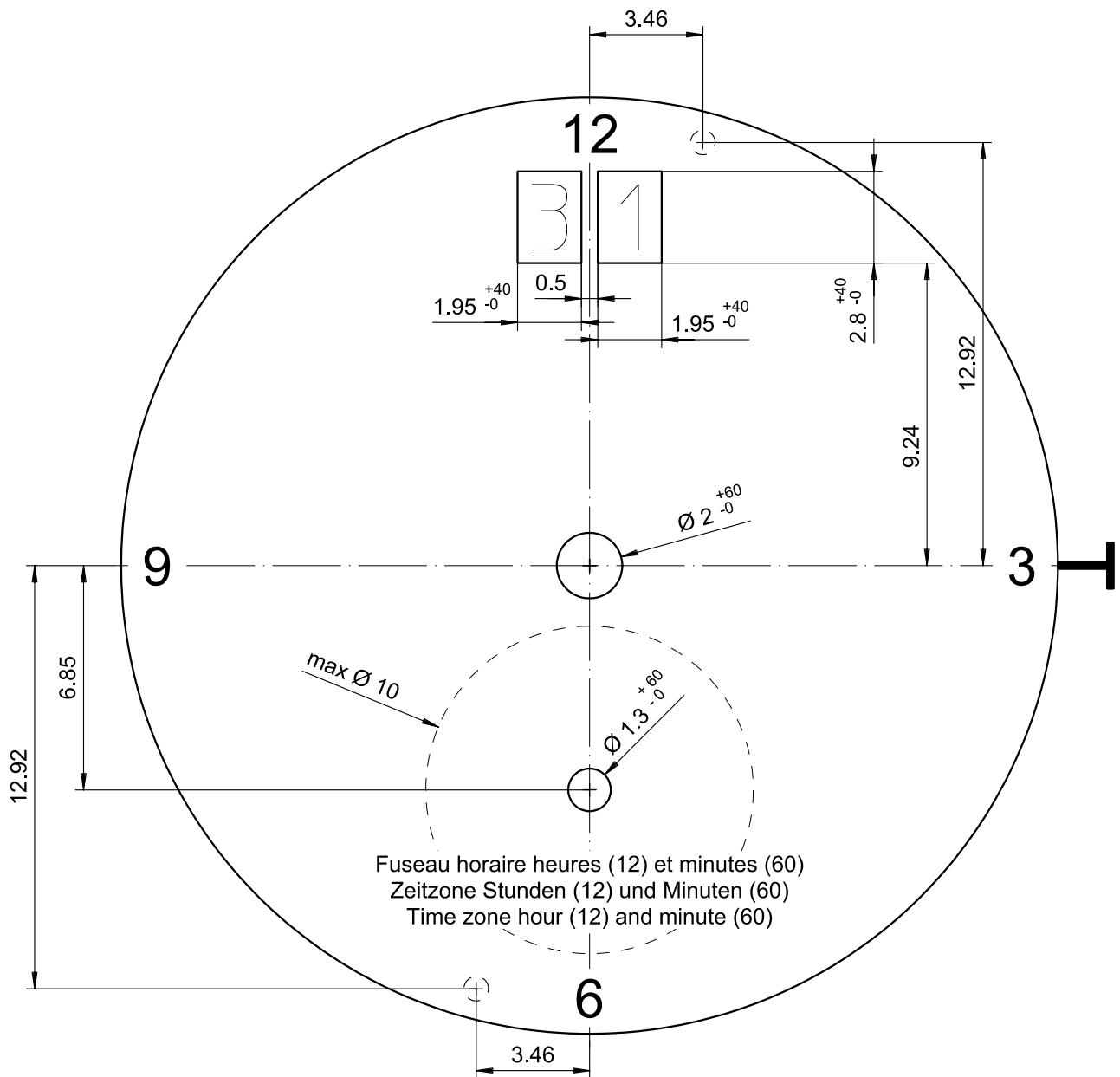
Angle Winkel Angle	10°	
Ø Dp	a	b
1.30	5.06	12.52
1.40	5.10	12.50



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

RONDA 4xxx.x, 5xxx.x

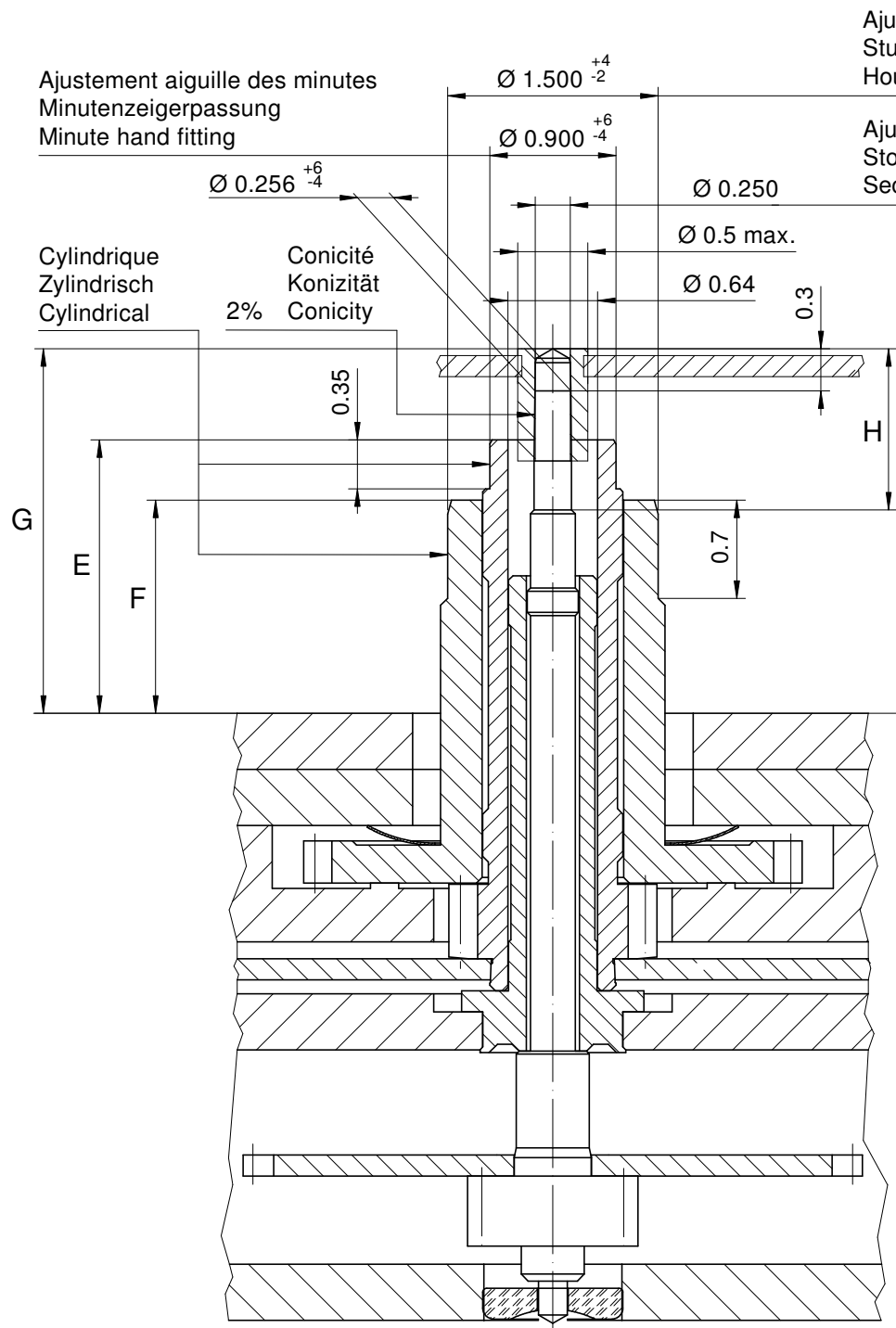
Issued	06 Sep 2004	mk
Modified	30.März 2005 ÄA 1784	mk
Released	YES	
Tolerance	+/- 20 µm	
Scale	10 : 1 (5 : 1) (A3H)	
Sous réserve de modifications Änderungen vorbehalten Modifications reserved		
No.	5000.345	01



Epaisseur du cadran selon hauteur de l'aiguillage  
 Zifferblattdicke gemäss Zeigerwerkhöhen  
 Dial thickness according to hand fitting heights

Tige	Date
Stellw.	Datum
Stem	Date
<b>3H</b>	<b>12H</b>

<b>Cadran</b> <b>Zifferblatt</b> <b>Dial</b>	<b>12½"</b>	Issued	13 Dez 2006	cw
		Modified	15.Dez.2006 ÄÄ ----	cm
		Released	YES	
		Tolerance	+/- 20 µm	
		Scale	5 : 1 (A4V)	
<b>RONDA</b>	<b>4210.B</b>	Sous réserve de modifications Änderungen vorbehalten Modifications reserved		
		No.	5010.696	03



Ajustement aiguille des heures  
Stundenzeigerpassung  
Hour hand fitting

Ajustement compteur secondes  
Stopp-Sekundenzeigerpassung  
Second hand fitting

Ajustement aiguille des minutes  
Minutenzeigerpassung  
Minute hand fitting

Cylindrique  
Zylindrisch  
Cylindrical

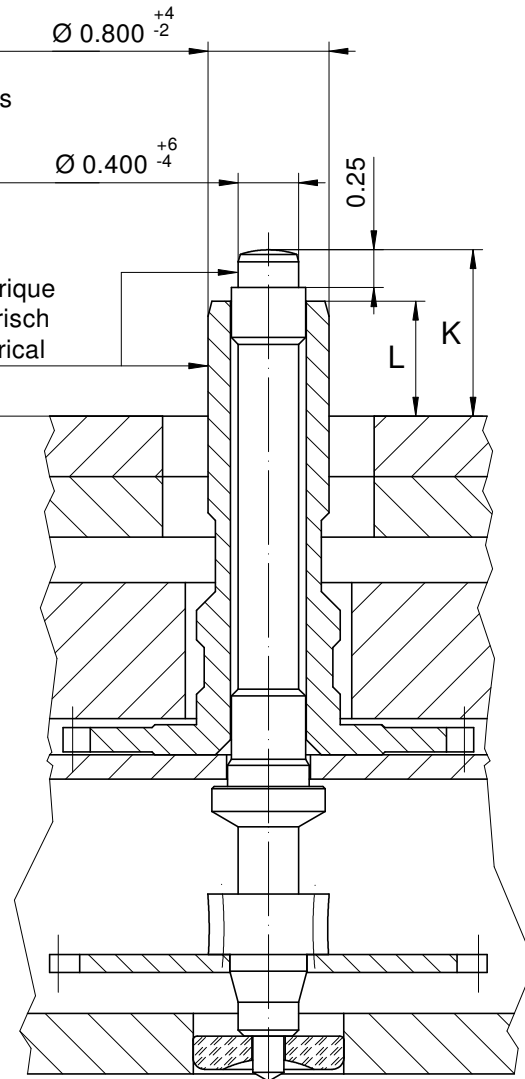
Conicité  
Konizität  
Conicity

Ajustement aiguille des heures  
Stundenzeigerpassung  
Hour hand fitting

Ajustement aiguille des minutes  
Minutenzeigerpassung  
Minute hand fitting

Appui cadran  
Zifferblattauflage  
Dial seat

Cylindrique  
Zylindrisch  
Cylindrical



Compteur 2 aiguille  
2 Zeiger Zähler  
2 Hand counter

Heures / minutes / secondes  
Stunden / Minuten / Sekunden  
Hours / minutes / seconds

		Aig. des secondes Sekundenzeiger Second hand	Aig. des minutes Minutenzeiger Minute hand	Aig. des heures Stundenzeiger Hour hand	Compteur 2 aiguille 2 Zeiger Zähler 2 Hand counter		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	
mg	max.	10	30	30	10	10	Masse / Masse / Weight *
µNm	max.	0.07	0.80	0.80	0.03	0.03	Balourd / Unwucht / Unbalance *
gmm <sup>2</sup>	max.	0.4	-	-	1.0	-	Inertie / Massenträgheit / Inertia *
N	max.	30	40	40	30	30	Force de chassage / Aufpresskraft / Force

Aiguillages Zeigerwerkhöhe Hand fitting height						
Dépassement Höhe über Zifferblattauflage Height over dial seat						
No	Pignon des secondes Stopp-Sekundentrieb Second pinion	Chaussée Minutenrohr Cannon-pinion	Roue des heures Stundenrad Hour wheel	H	Compteur 2 aig. 2 Zeiger Zähler 2 Hand counter	
					Chaussée Minutenrohr Cannon-pinion	Roue des heures Stundenrad Hour wheel
G	E	F	H	K	L	
2	2.60	1.95	1.52	1.15	1.10	0.76
-						

Aiguillages Zeigerwerkhöhe Hand fitting height						
Peinture comprise / inkl. Farbe / Paint included						
Epaisseur maximum du cadran Maximale Zifferblattstärke Maximum dial thickness						
No	Sous l'aiguille des secondes Unter Sekundenzeiger Under second hand	Sous l'aiguille des minutes Unter Minutenzeiger Under minute hand	Sous l'aiguille des heures Unter Stundenzeiger Under hour hand	Sous l'aiguille des minutes Unter Minutenzeiger Under minute hand	Compteur 2 aig. 2 Zeiger Zähler 2 Hand counter	
					Sous l'aiguille des heures Unter Stundenzeiger Under hour hand	Epaisseur des aiguilles Zeigerdicke Hands thickness
2	2.10	1.55	1.10	0.70	0.40	0.15
-						

## Aiguillages Zeigerwerkhöhen 12½" Hand fitting heights

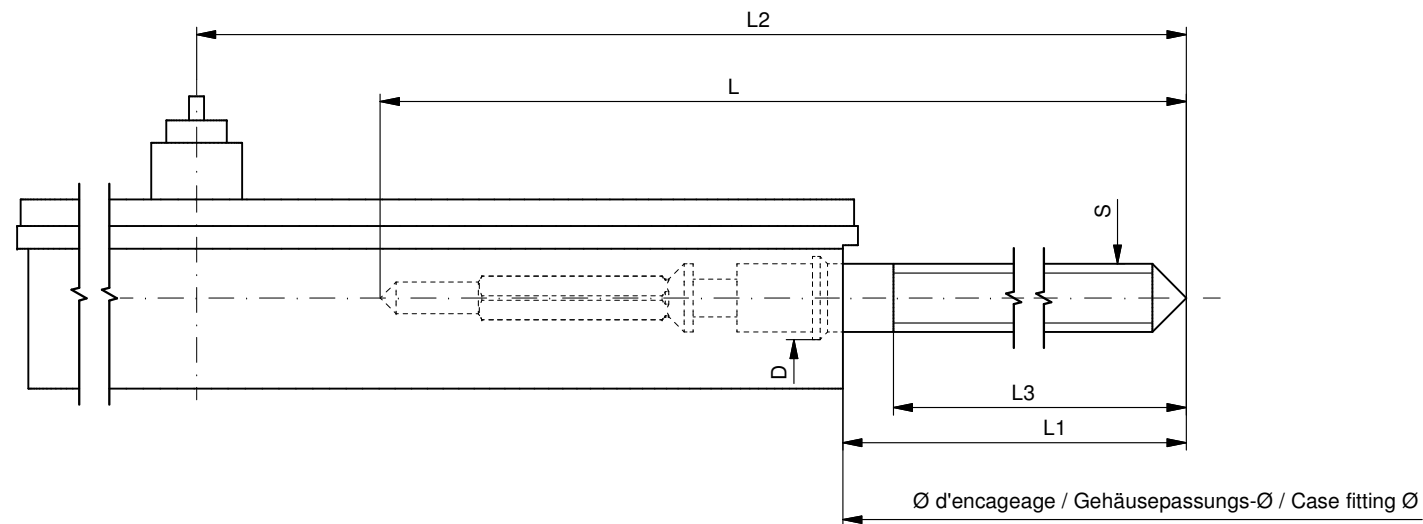
RONDA 4210.B

Issued	14 Nov 2003	mk
Modified	15 Okt 2014 ÄÄ 13275	dh
Released	Yes	
Tolerance	µm	
Scale	20 : 1 (A3H)	
Sous réserve de modifications Änderungen vorbehalten Modifications reserved		
No.	3316.084	03

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

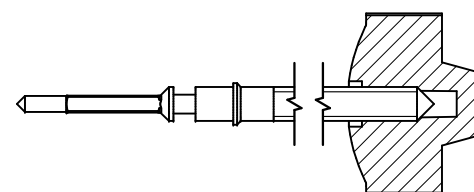
\* Bei abweichenden Werten, bitte technischen Kundendienst anfragen

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



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

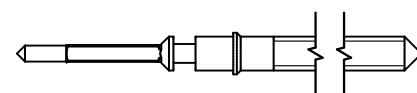
No. d'article Artikelnummer Part number	L	L1	L2	L3	S	D
3000.177.CO	20.00	10.23	24.23	10.15	0.90	1.10



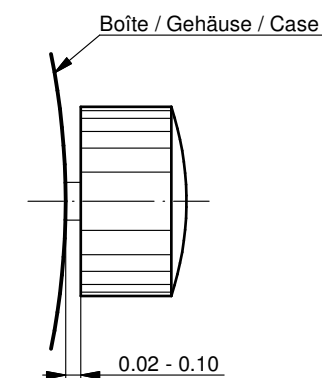
Couleur de la couronne Kronenfarbe Crown color	bleu foncé dunkelblau dark blue
Code	UN 5002

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 normale  
 Normale Krone  
 Normal crown

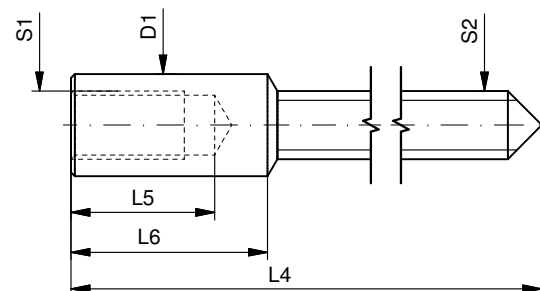


Couronne vissée  
 Geschraubte Krone  
 Screwed crown

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:

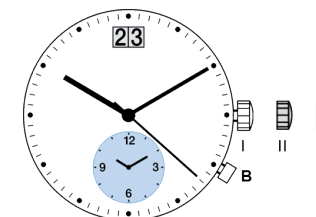
First and tenth digit discs

~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.



# RONDA startech – Movement Cal. 4210.B & 4220.B

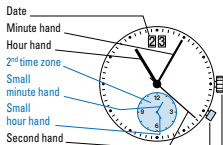
## User's Manual English

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.

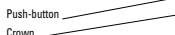
In case of repairs, guarantee claims and questions concerning the functioning of a watch, purchasers and consumers should contact their retailer or the watch manufacturer, for which the relevant information can be found in the sales or guarantee documentation provided with the watch.

### Description of the display and control buttons

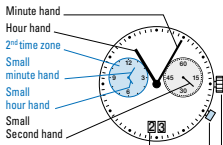
#### Display elements 4210.B



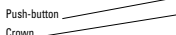
#### Control buttons



#### Display elements 4220.B

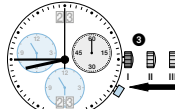
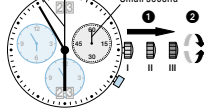


#### Control buttons



01

#### 4210.B Second 4220.B Small second



02

### 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, 3 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 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 12 PM, 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).

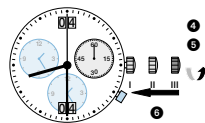
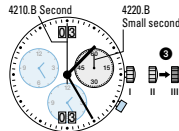
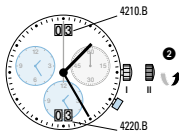
03

### 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.



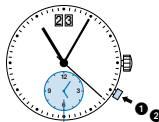
04

- 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.

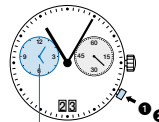
- 6 Push the crown back into position I.
- Please note:  
\* To set your watch to the exact second, please refer to the chapter entitled «setting the time».  
\*\* Please observe the AM/PM clock rhythm.

### Setting the 2nd time zone

#### 4210.B



#### 4220.B



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 seconds) 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.

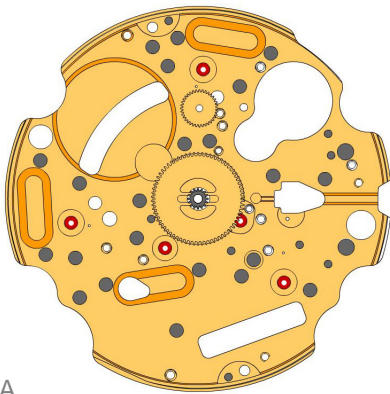
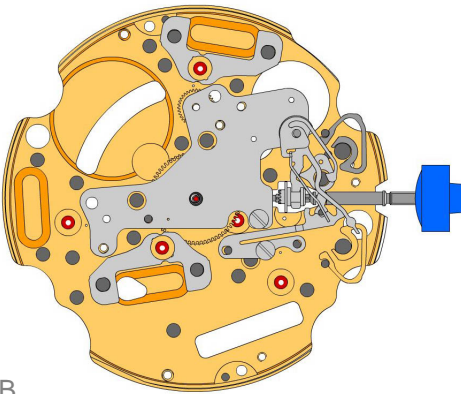
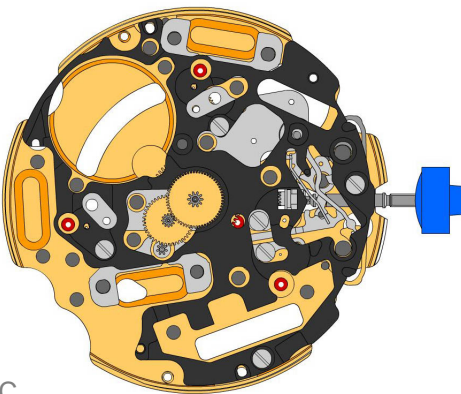
05

















Battery type: 395 / SR927SW  
Accuracy: +20 / -10 seconds per month






09/2017

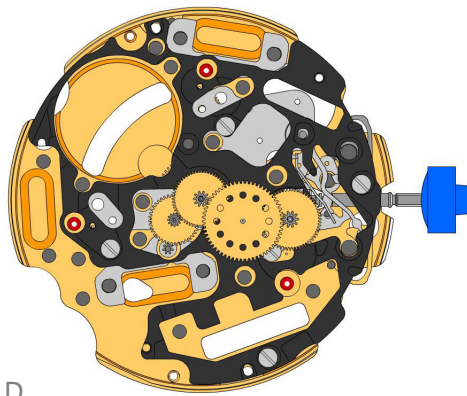




**A**

**B**

**C**

2000.574.G 1.		Main plate
3305.282.CO 2.		Cannon pinion with driver (Aig.2)
3301.243 3.		Hour wheel (counter 12h)


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

3603.079 15.		Plastic bracket Plastic bracket held by 4 screws 4000.250.
4000.250 16.		Screw
3715.094.RK 17.		Rotor
3147.047.CO 18.		Intermediate wheel (chrono)
3136.156.CO 19.		Second wheel (Aig.2)


**D**


3136.148.CO  
20.  Chronograph wheel (Aig.2)

3122.056.CO  
21.  Third wheel

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

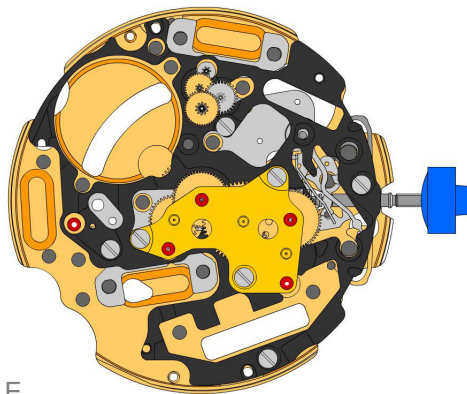
4000.250  
23.  Screw


3715.095.RK  
24.  Rotor

3147.048.CO  
25.  Intermediate wheel (counter)


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


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


**E**

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

4000.250  
29.  Screw

3621.055.RK  
30.  Coil (counter 6h)  
Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.

3621.079.RK  
31.  Coil (center)  
Attention: Please hold the coil only on the grey coil core.

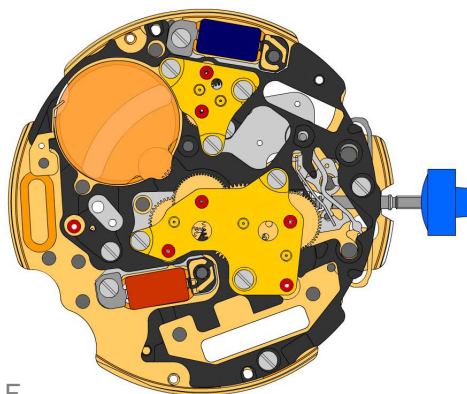
3503.071  
32.  Tube

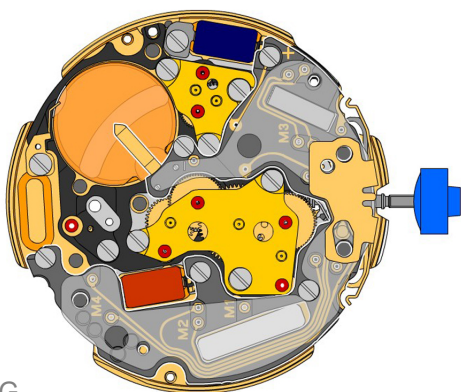
3601.118  
33.  Contact strip  
Contact strip held by 1 screw 4000.250.





4000.250  
34.  Screw

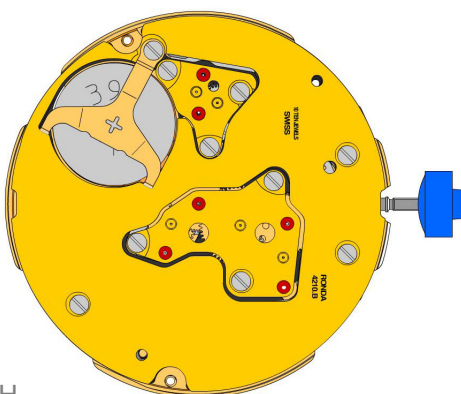
3603.034  
35.  Battery insulator





3503.054  
36.  Tube

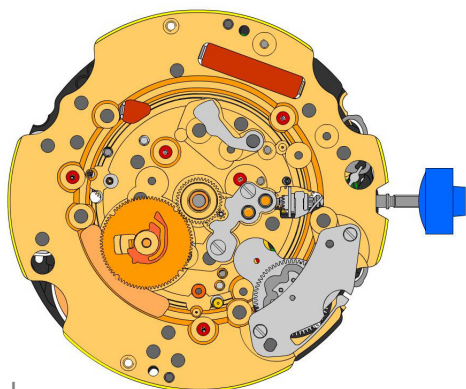
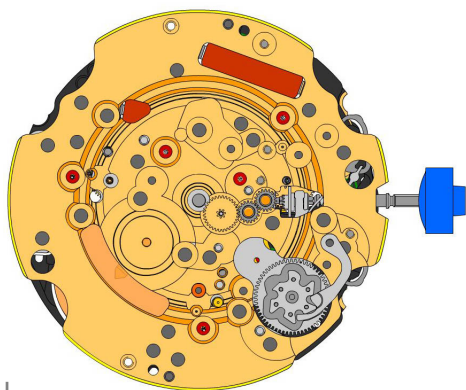

**F**















**G**

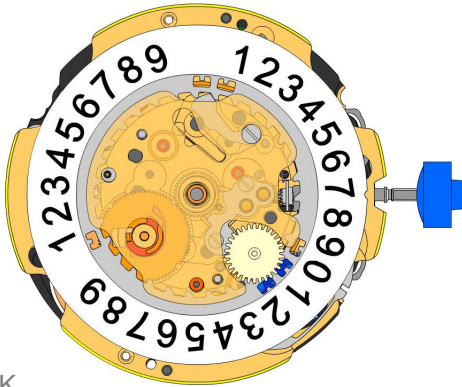
3612.146.4210 37.		<b>Electronic module</b> Electronic module held by 5 screws 4000.248. Electronic measurements may be realised now.
4000.248 38.		<b>Screw</b>
3603.069 39.		<b>Circuit insulator</b>
3601.107.G 40.		<b>Pusher contact spring</b>






**H**

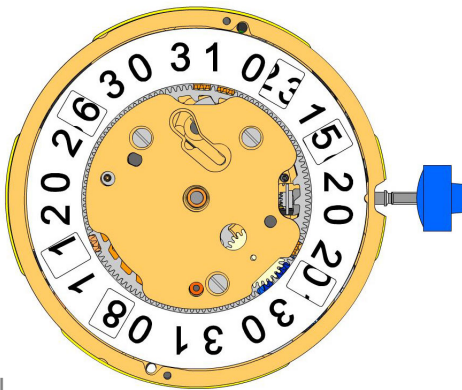
2130.139.G.M01.4210B 41.		<b>Electronic module cover</b> Electronic module cover held by 3 screws 4000.250.
3600.010.HGF 42.		<b>Battery 395</b>
3601.109.G 43.		<b>Bridle +</b> Bridle held by 1 screw 4000.250.
4000.250 44.		<b>Screw</b>











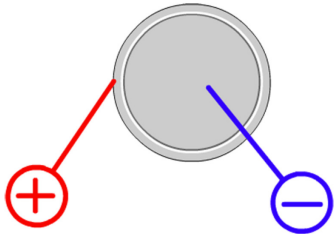
2000.574.G 45.		Main plate
3004.164 46.		Setting wheel
3007.054.CO 47.		Minute wheel
2130.143 48.		Minute train bridge Minute train bridge held by 2 screws 4000.305.
4000.305 49.		Screw
3004.227 50.		Tens indicator driving wheel The short tooth of the tens indicator driving wheel must point to the center of the movement.
3500.075 51.		Tens jumper
2130.142 52.		Tens jumper maintaining plate Tens jumper maintaining plate held by 2 screws 4000.306. Tensioning the spring arm.
4010.306 53.		Screw
3301.242 54.		Hour wheel (Aig.2)
3315.016 55.		Friction spring
3004.224.CO 56.		Date indicator driving wheel
3500.049 57.		Date jumper


**K**

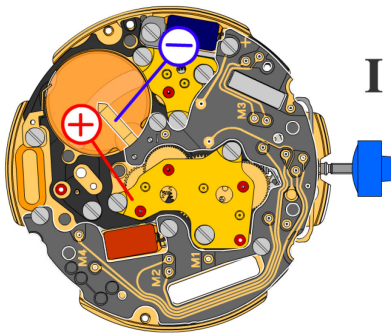
3504.214.AF.1.A 58.		<b>Units indicator (standard)</b> Nick of the indicator at 3 o'clock.
3147.054 59.		<b>Tens intermediate wheel</b>
2130.141 60.		<b>Date indicator maintaining plate</b> Date indicator maintaining plate held by 1 screw 4000.250.
3905.070 61.		<b>Date jumper spring</b> Insert the date jumper spring in the provided opening.


**L**

3504.216.AF.1.A 62.		<b>Tens indicator (standard)</b> Nick of the indicator at 3 o'clock.
2130.140.G 63.		<b>Date mechanism maintaining plate</b> Date mechanism maintaining plate held by 2 screws 4000.250.
4000.250 64.		<b>Screw</b>
3506.072.G 65.		<b>Dial support</b>
8200 66.		<b>Moebius 8200</b>
9014 67.		<b>Moebius 9014</b>
124 68.		<b>Jismaa 124</b>
9020 69.		<b>Moebius 9020</b>

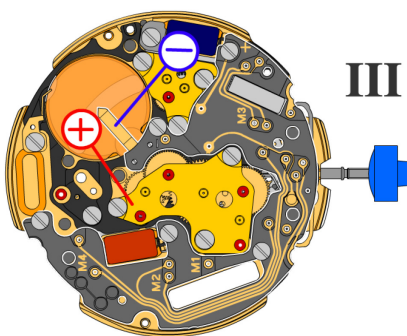


Battery	<b>395</b>
Voltage	<b>1.55 V</b>



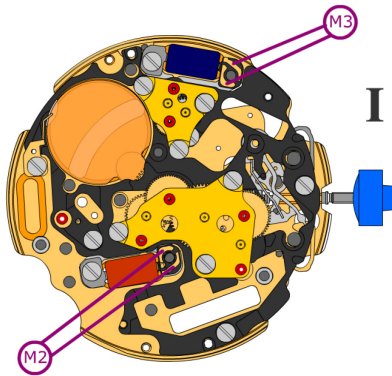
*Setting stem in position I, calendar not in gear,  
60 s measuring interval for rate and consumption:*

Typical consumption	<b>1.32 <math>\mu</math>A</b>
Maximal consumption	<b>1.65 <math>\mu</math>A</b>
Rate	<b>-10s/M. .. +20s/M.</b>
Lower working voltage limit	<b>1.20 V</b>



*Setting stem in position III, 60 s measuring interval:*

Typical consumption	<b>0.10 <math>\mu</math>A</b>
Maximal consumption	<b>0.30 <math>\mu</math>A</b>

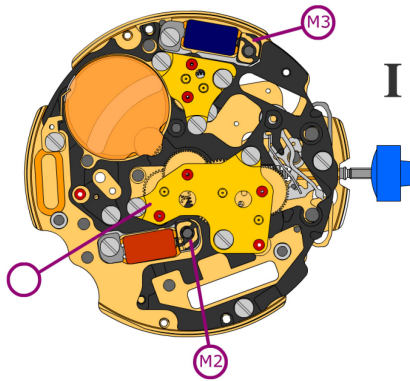


Coil resistance M2

**2.20 kΩ .. 2.40 kΩ**

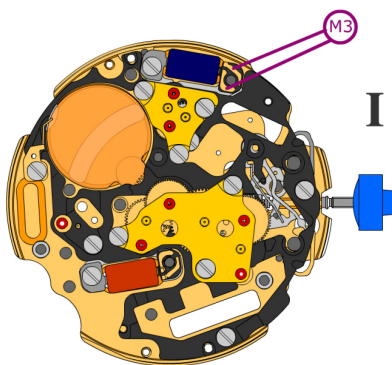
Coil resistance M3

**1.68 kΩ .. 1.88 kΩ**



Coil isolation M2/M3

**∞ kΩ**

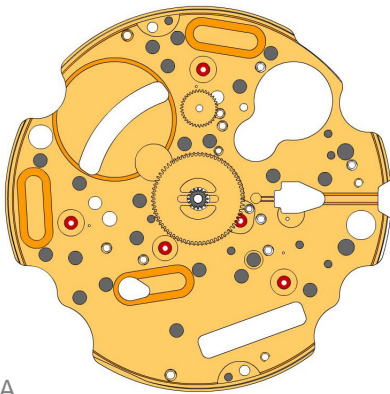
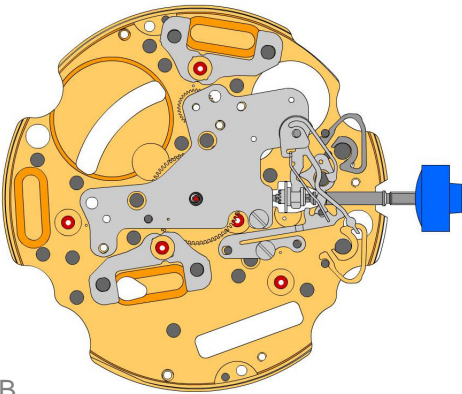
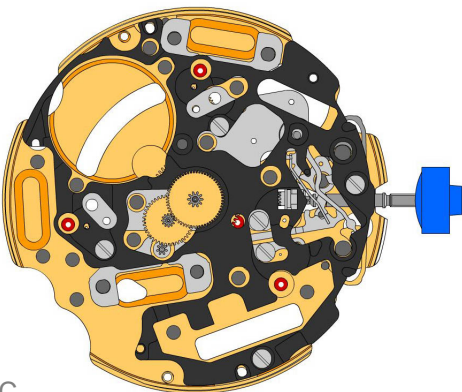
















*Signal generator (4.9 ms, 8 Hz):*

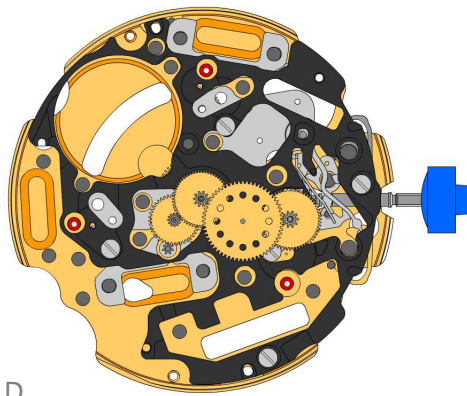
Lower working voltage limit M3


**1.20 V**





**A**

**B**

**C**

2000.574.G 1.		Main plate
3305.282.CO 2.		Cannon pinion with driver (Aig.2)
3301.243 3.		Hour wheel (counter 12h)
2030.017.CO 4.		Centre bridge Centre bridge held by 1 screw 4000.250. Parts 2030.017.CO, 3004.223 and 3500.059 must be exchanged together.
3001.055.FI 5.		Sliding pinion
3000.177.CO 6.		Setting stem
3017.049 7.		Setting lever
3905.049 8.		Setting lever jumper (3 positions) Setting lever jumper held by 1 screw 4000.250.
4000.250 9.		Screw
3015.081 10.		Yoke (3 positions) Parts 3015.081 and 3905.067 must be exchanged together.
3905.067 11.		Yoke spring Tensioning the spring arm. Parts 3015.081 and 3905.067 must be exchanged together.
3406.030 12.		Pusher jumper B Put the grey jumper between the two posts on the further side.
3406.038 13.		Pusher jumper A Put the yellow jumper between the two posts on the closer side.
3622.039 14.		Stator (6h, 9h, chrono)
3603.079 15.		Plastic bracket Plastic bracket held by 4 screws 4000.250.
4000.250 16.		Screw
3715.094.RK 17.		Rotor
3147.047.CO 18.		Intermediate wheel (chrono)
3136.156.CO 19.		Second wheel (Aig.2)


**D**

3136.148.CO  
20.  Chronograph wheel (Aig.2)

3122.056.CO  
21.  Third wheel

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

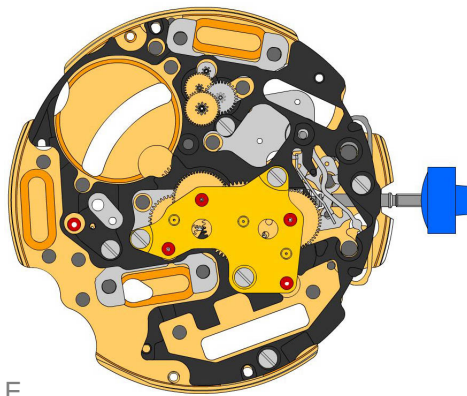
4000.250  
23.  Screw


3715.095.RK  
24.  Rotor

3147.048.CO  
25.  Intermediate wheel (counter)


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


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


**E**

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

4000.250  
29.  Screw

3621.055.RK  
30.  Coil (counter 6h)  
Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.

3621.079.RK  
31.  Coil (center)  
Attention: Please hold the coil only on the grey coil core.

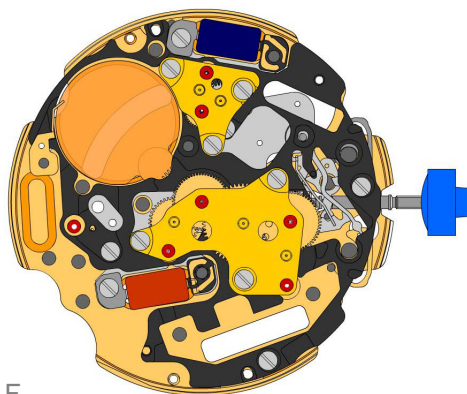
3503.071  
32.  Tube

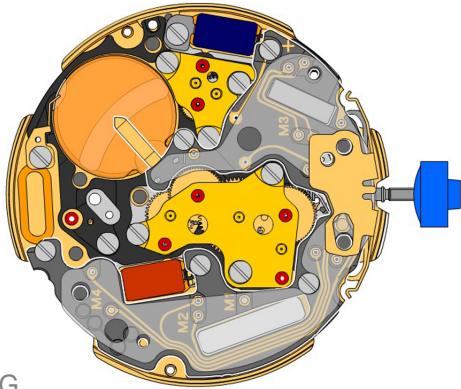
3601.118  
33.  Contact strip  
Contact strip held by 1 screw 4000.250.

4000.250  
34.  Screw





3603.034  
35.  Battery insulator

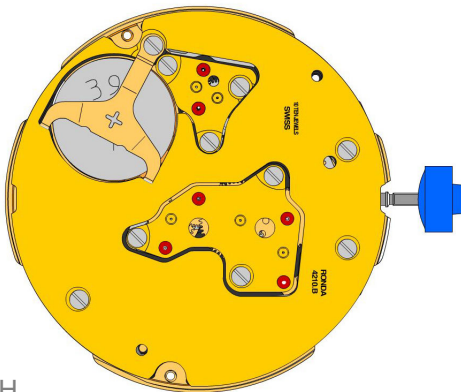
3503.054  
36.  Tube


**F**







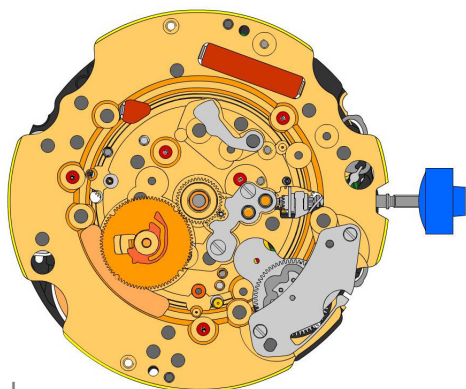
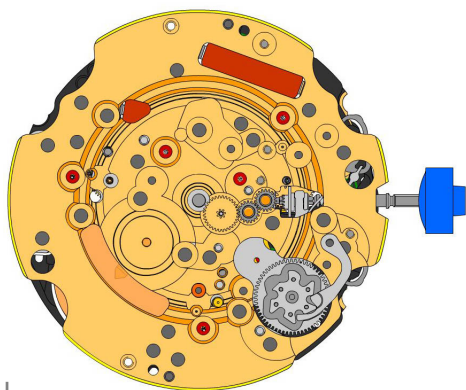
G














3612.146.4210 37.		<b>Electronic module</b> Electronic module held by 5 screws 4000.248. Electronic measurements may be realised now.
4000.248 38.		<b>Screw</b>
3603.069 39.		<b>Circuit insulator</b>
3601.107.G 40.		<b>Pusher contact spring</b>

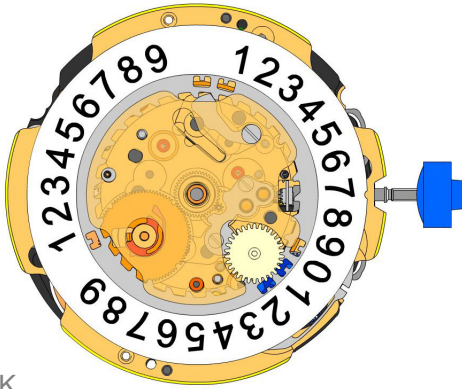






H

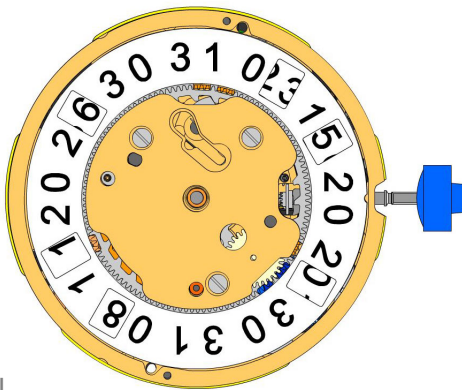
2130.139.G.M01.4210B 41.		<b>Electronic module cover</b> Electronic module cover held by 3 screws 4000.250.
3600.010.HGF 42.		<b>Battery 395</b>
3601.109.G 43.		<b>Bridle +</b> Bridle held by 1 screw 4000.250.
4000.250 44.		<b>Screw</b>











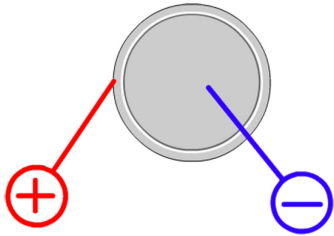
2000.574.G 45.		Main plate
3004.164 46.		Setting wheel
3007.054.CO 47.		Minute wheel
2130.143 48.		Minute train bridge Minute train bridge held by 2 screws 4000.305.
4000.305 49.		Screw
3004.223 50.		Tens indicator driving wheel Parts 2030.017.CO, 3004.223 and 3500.059 must be exchanged together. The short tooth of the tens indicator driving wheel must point to the center of the movement.
3500.059 51.		Tens jumper Parts 2030.017.CO, 3004.223 and 3500.059 must be exchanged together.
2130.142 52.		Tens jumper maintaining plate Tens jumper maintaining plate held by 2 screws 4000.306. Tensioning the spring arm.
4010.306 53.		Screw
3301.242 54.		Hour wheel (Aig.2)
3315.016 55.		Friction spring
3004.224.CO 56.		Date indicator driving wheel
3500.049 57.		Date jumper


**K**

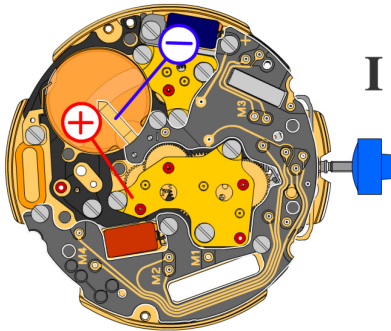
3504.214.AF.1.A 58.		<b>Units indicator (standard)</b> Nick of the indicator at 3 o'clock.
3147.054 59.		<b>Tens intermediate wheel</b>
2130.141 60.		<b>Date indicator maintaining plate</b> Date indicator maintaining plate held by 1 screw 4000.250.
3905.070 61.		<b>Date jumper spring</b> Insert the date jumper spring in the provided opening.


**L**

3504.216.AF.1.A 62.		<b>Tens indicator (standard)</b> Nick of the indicator at 3 o'clock.
2130.140.G 63.		<b>Date mechanism maintaining plate</b> Date mechanism maintaining plate held by 2 screws 4000.250.
4000.250 64.		<b>Screw</b>
3506.072.G 65.		<b>Dial support</b>
8200 66.		<b>Moebius 8200</b>
9014 67.		<b>Moebius 9014</b>
124 68.		<b>Jismaa 124</b>
9020 69.		<b>Moebius 9020</b>

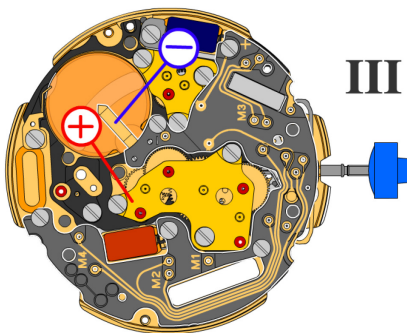


Battery	<b>395</b>
Voltage	<b>1.55 V</b>



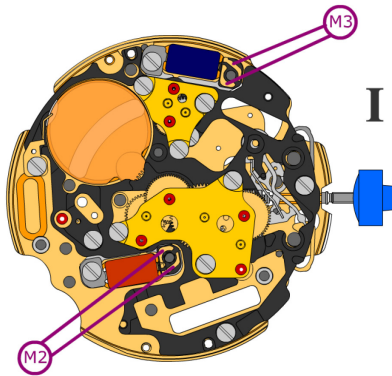
*Setting stem in position I, calendar not in gear,  
60 s measuring interval for rate and consumption:*

Typical consumption	<b>1.32 <math>\mu</math>A</b>
Maximal consumption	<b>1.65 <math>\mu</math>A</b>
Rate	<b>-10s/M. .. +20s/M.</b>
Lower working voltage limit	<b>1.20 V</b>



*Setting stem in position III, 60 s measuring interval:*

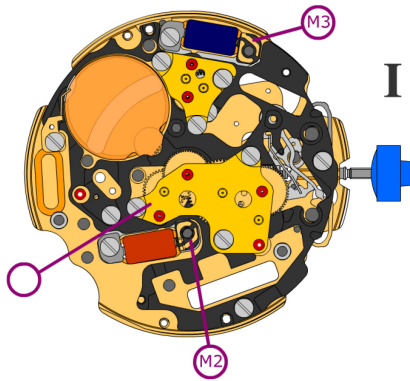
Typical consumption	<b>0.10 <math>\mu</math>A</b>
Maximal consumption	<b>0.30 <math>\mu</math>A</b>



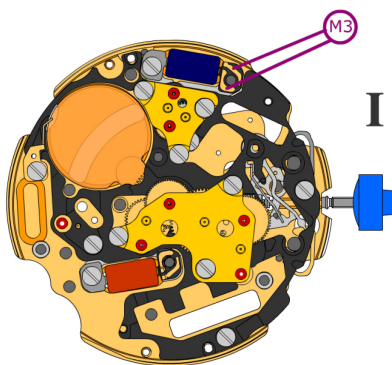
Coil resistance M2

**2.20 k $\Omega$  .. 2.40 k $\Omega$** 

Coil resistance M3

**1.68 k $\Omega$  .. 1.88 k $\Omega$** 


Coil isolation M2/M3

 **$\infty$  k $\Omega$** 

*Signal generator (4.9 ms, 8 Hz):*

Lower working voltage limit M3

**1.20 V**