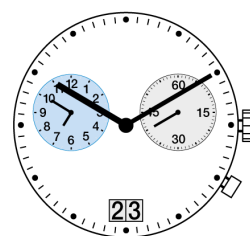
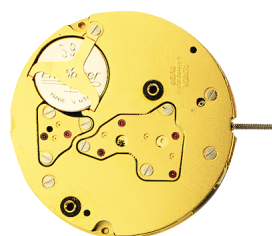


# RONDA startech 4000

Multifunctions with Big Date,  
Alarm, 2nd Time Zone

*Caliber 4120.B – 12½'''*



## Product Specifications

Analog quartz movement

Line startech

Caliber 4120.B

Size 12½'''

Version Swiss Made 7 Jewels / gold plated  
Swiss Parts 3 Jewels / nickel plated

Standard battery life 50 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**

- 2 eyes
- Multifunction
- Alarm
- Big date
- Small second

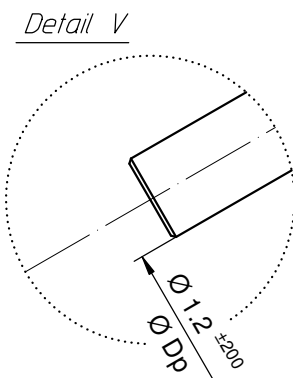
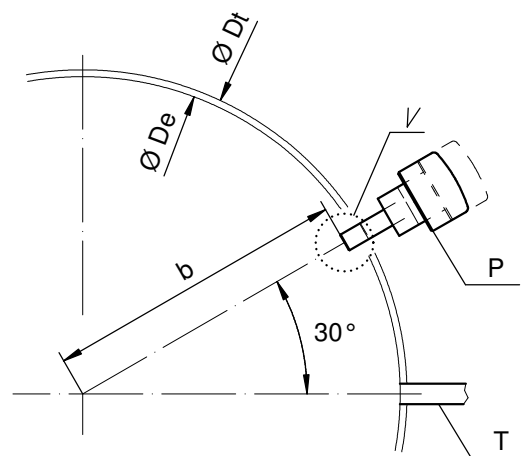
**Technical Specifications**

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	50 months
Battery voltage	1.5 V
Current consumption – typical	1.42 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

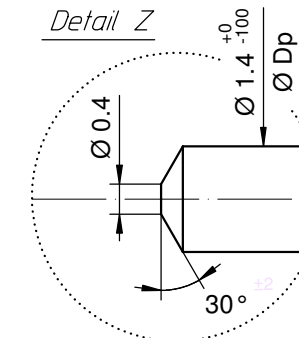
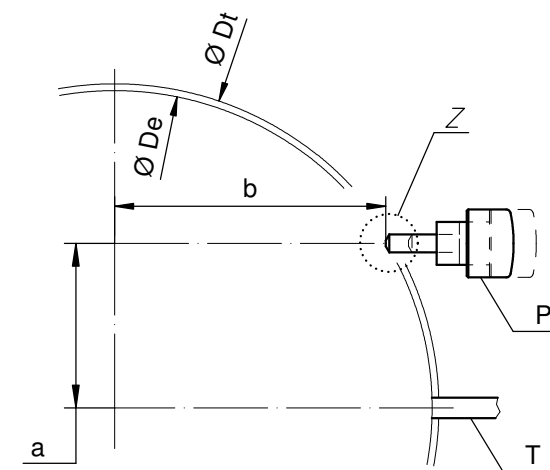




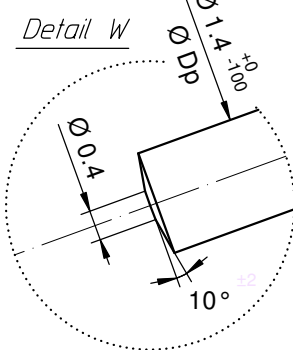
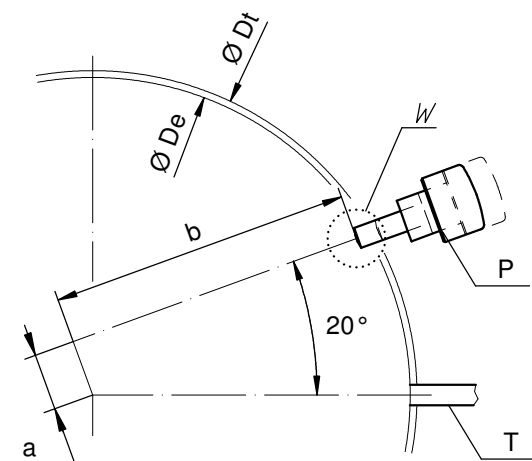
Angle Winkel Angle	30°	
Ø Dp	b	
1.00	13.50	
1.10	13.50	
1.20	13.50	
1.30	13.50	
1.40	13.50	



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

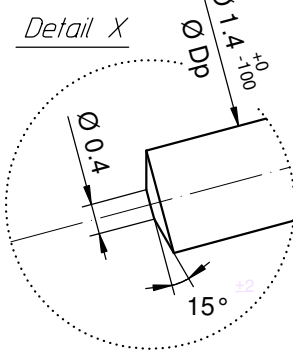
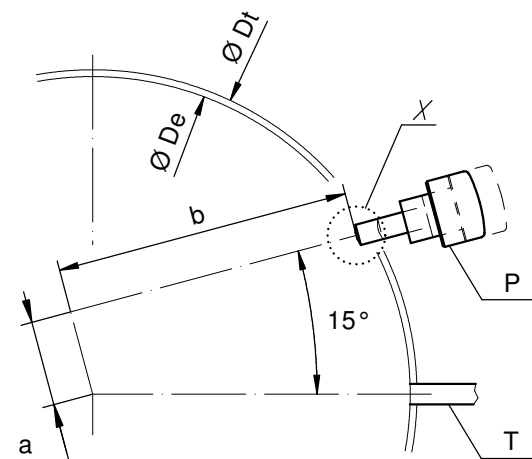
Ø Dp: diamètre du poussoir  
Drückerdurchmesser  
pusher-diameter

Ø Dt: diamètre total  
Totaldurchmesser  
total-diameter

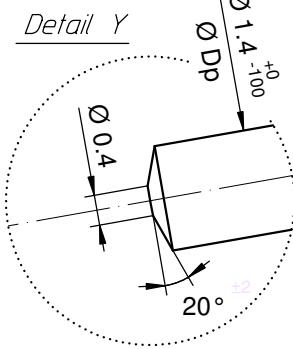
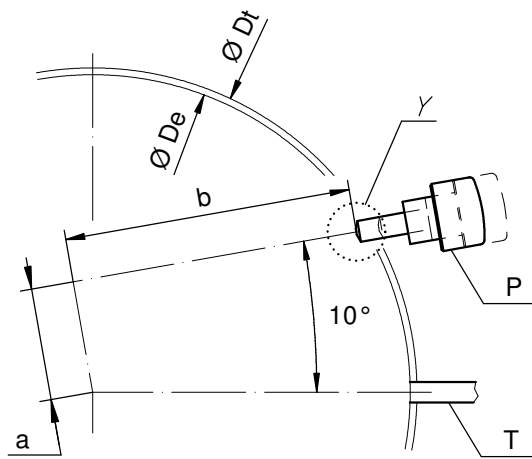
P: poussoir en position poussée  
Drücker in gedrückter Stellung  
pusher in pressed position

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



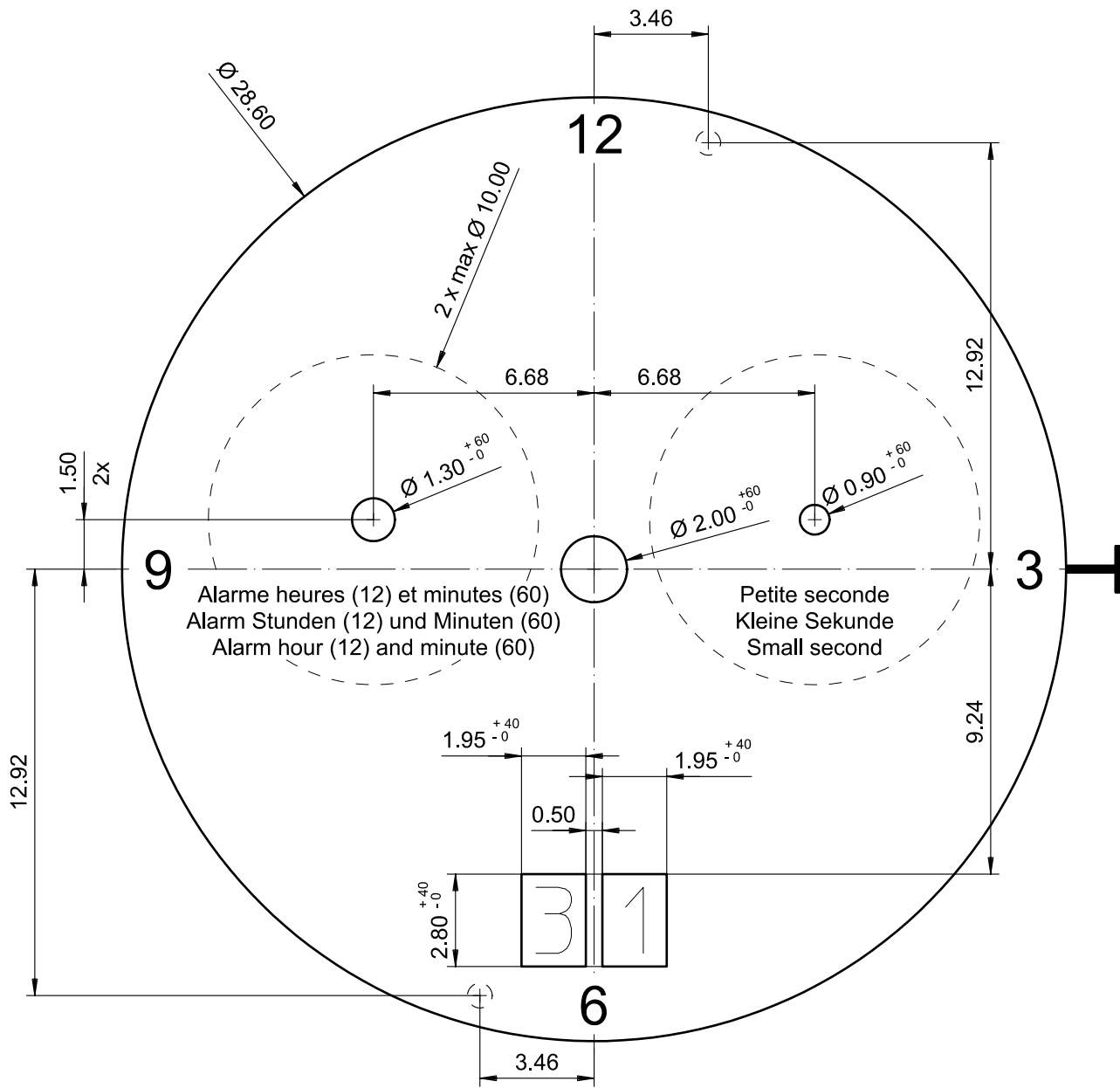
Angle Winkel Angle	10°	
Ø Dp	a	b
1.30	5.06	12.52
1.40	5.10	12.50



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

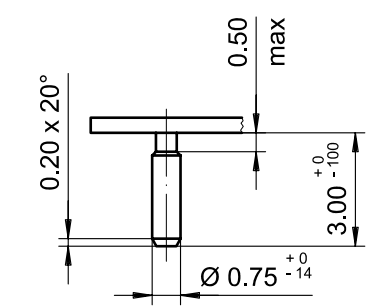
RONDA 4xxx.x, 5xxx.x

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



Alarme heures (12) et minutes (60)  
 Alarm Stunden (12) und Minuten (60)  
 Alarm hour (12) and minute (60)

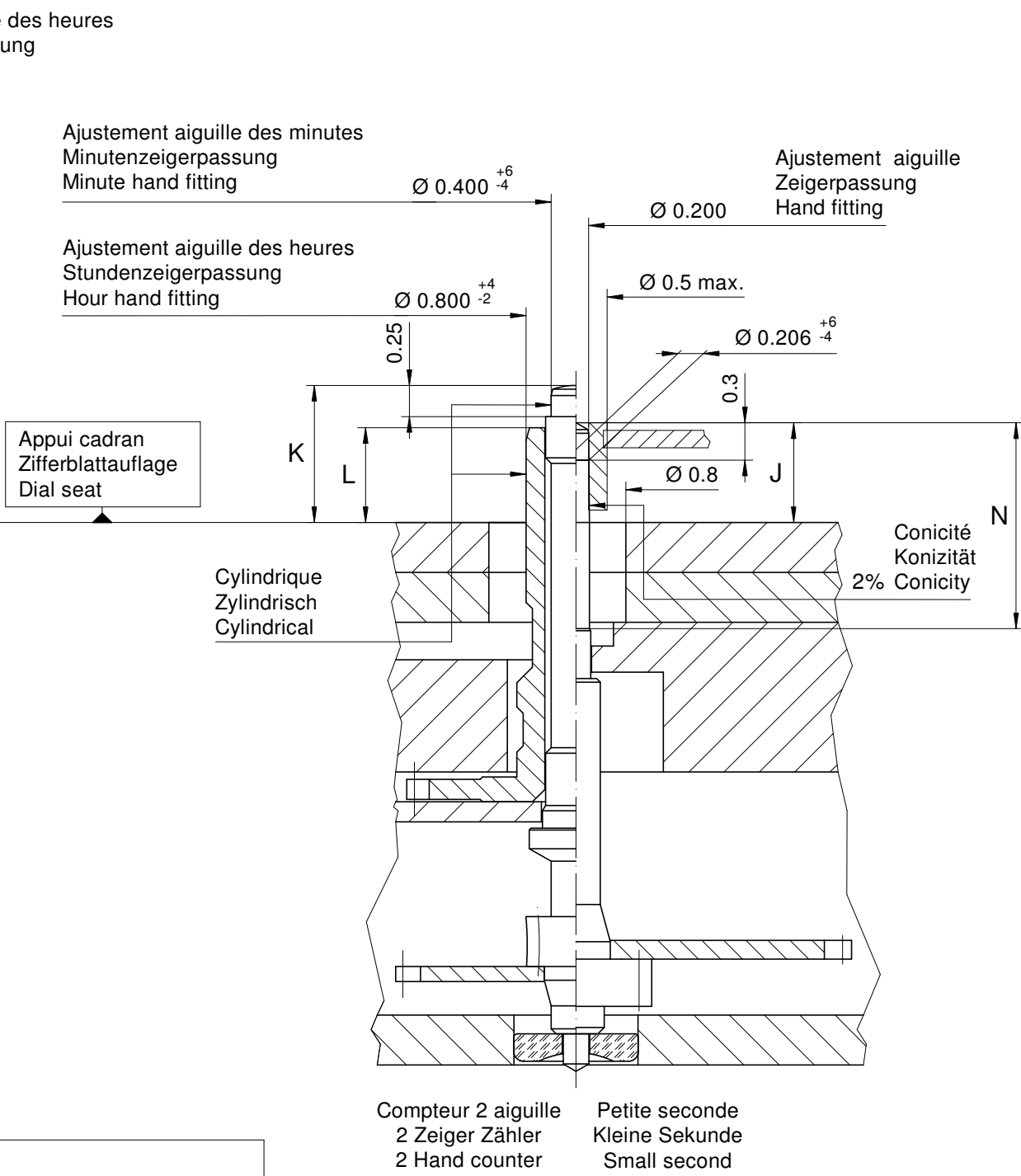
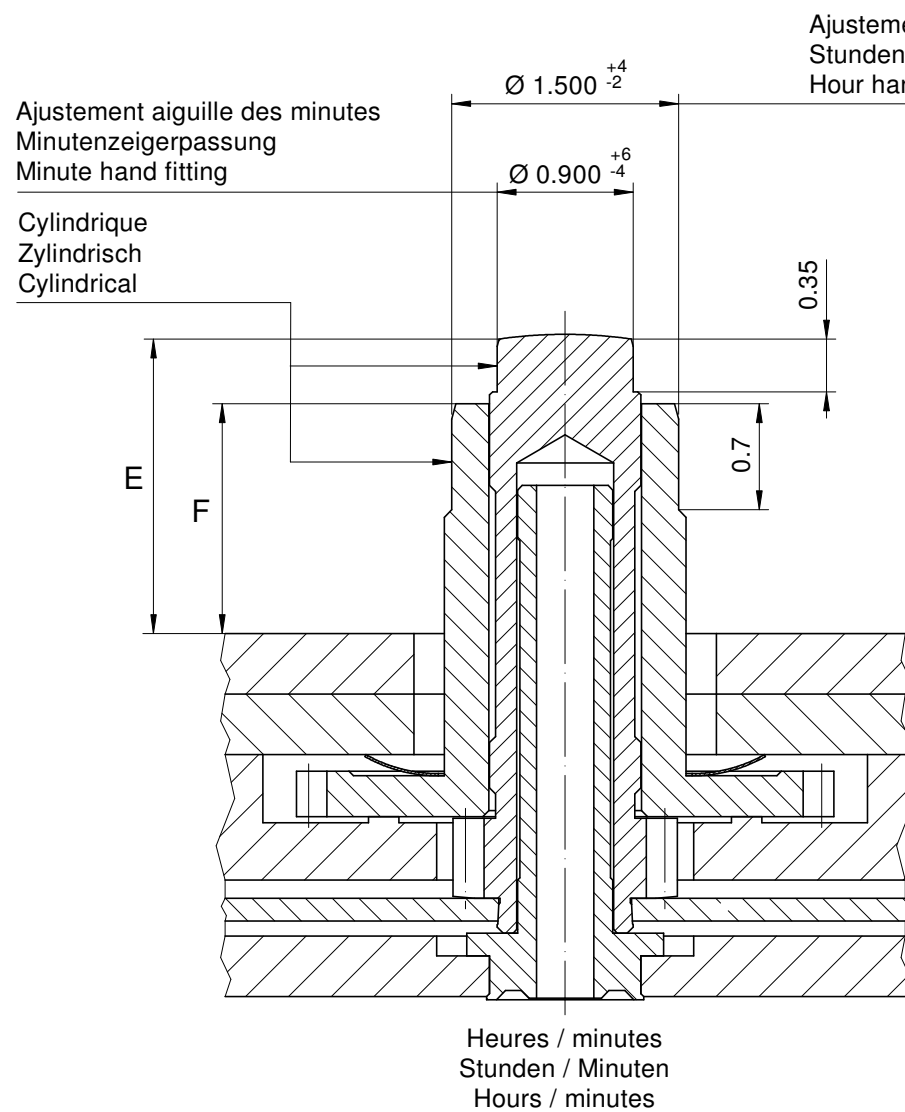
Petite seconde  
 Kleine Sekunde  
 Small second



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>6H</b>
□	

<b>Cadran</b> <b>Zifferblatt</b> <b>Dial</b>	<b>12½"</b>	Issued	13 Dez 2006	cw
		Modified	15.Dez.2006 ÄA ----	cm
		Released	YES	
		Tolerance	+/- 20 µm	
		Scale	5 : 1 (A4V)	
<b>RONDA</b>	<b>4120.B</b>	Sous réserve de modifications Änderungen vorbehalten Modifications reserved		
		No.	5010.695	02



Aiguillages Zeigerwerkhöhe Hand fitting height						
Dépassement Höhe über Zifferblattaufgabe Height over dial seat						
No	Chaussée Minutenrohr Cannon-pinion	Roue des heures Stundenrad Hour wheel	Compteur 2 aig. 2 Zeiger Zähler 2 Hand counter		Petite seconde Kleine Sekunde Small second	J
			K	L		
2	E	F	N	K	L	J
	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 Zifferblattstärke 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 de petite seconde Unter kleine Sekundenzeiger Under small second hand	Epaisseur des aiguilles Zeigerdicke Hands thickness
			K	L		
2	1.50	1.10	0.70	0.40	0.40	0.15
-						

	mg max.	µNm max.	gmm <sup>2</sup> max.	N max.	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.
Masse / Masse / Weight *	30	0.80	-	40	30	10	10	10		
Balourd / Unwucht / Unbalance *	30	0.80	-	40	0.03	0.03	0.03	0.07		
Inertie / Massenträgheit / Inertia *	-	-	1.0	-	1.0	-	-	0.4		
Force de chassage / Aufpresskraft / Force	40	40	30	30	30	30	30	30		

**Aiguillages  
Zeigerwerkhöhe 12½"  
Hand fitting heights**

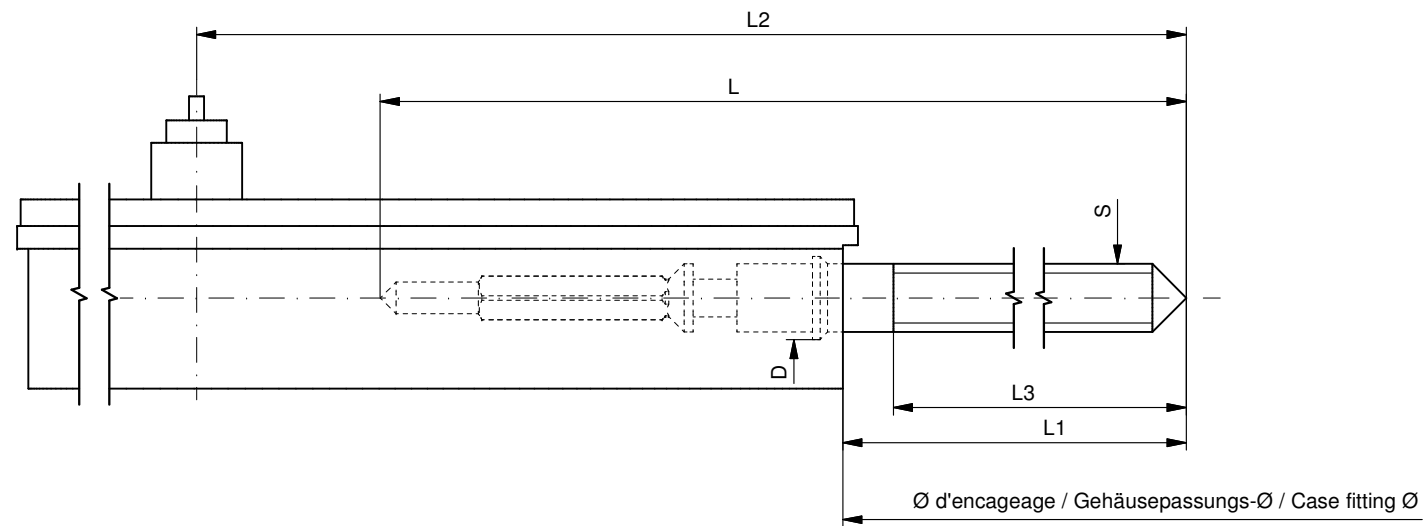
**RONDA 4120.B, 4220.B**

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.	3316.083	04

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

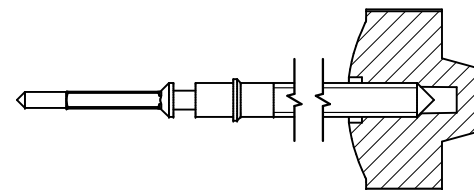
\* Bei abweichenden Werten, bitte technischen Kundendienst anfragen

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



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

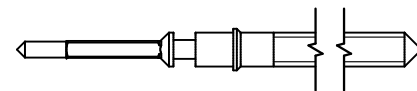
No. d'article Artikelnummer Part number	L	L1	L2	L3	S	D
3000.177.CO	20.00	10.23	24.23	10.15	0.90	1.10



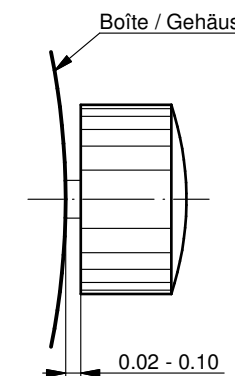
Couleur de la couronne Kronenfarbe Crown color	bleu foncé dunkelblau dark blue
Code	UN 5002

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

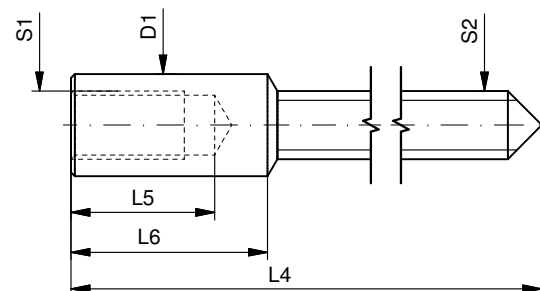


Couronne vissée  
 Geschraubte Krone  
 Screwed crown

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

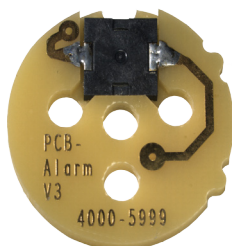
No.	5030.018	02
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**Movement holder**  
Removing setting stem  
H5XXX.1T



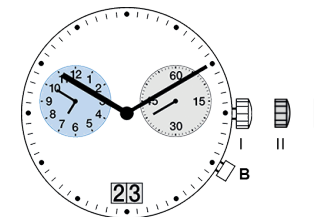
**Movement holder**  
Setting hands  
H5XXX.1A4



**PCB-Alarm**  
Installing Piezo function for  
H5XXX.1A4  
H5XXX.1P

### 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 hand
- Fit dial
- Point all hands towards 12 o'clock
- Set time
- Set alarm reference time\*\*
- Crown in position II
- Set date
- Crown in position I



### Date switching duration:

First and tenth digit discs

~2hrs

### \*\*Setting alarm reference time

- Activate pusher B min. 2 secs (activating reference time mode)
- Synchronise reference time with actual time by pressing pusher B:
  - Short press (< 1 sec.) → +1 minute
  - Medium press (1-2 secs) → +1 hour
  - Long press (> 2 secs) → continuously

**Details:** See Instructions 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 watch-maker 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

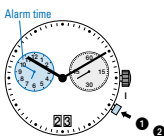
#### Display elements

Minute hand  
Hour hand  
Alarm and reference time (hour and minute)  
Second hand  
Date

#### Control buttons

Crown  
Push-button

01

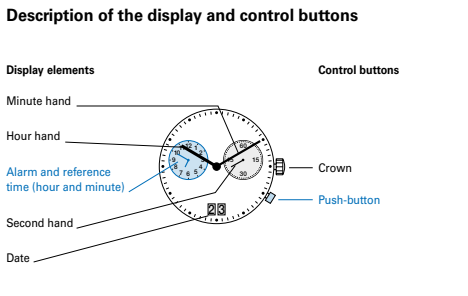


05

### Setting the alarm time

- Activate the setting mode**  
Press the push-button for at least 2 seconds. As soon as the small minute hand jumps forward 1 minute, this mode is active.
- Setting**  
**Short pressing** (less than 1 second): the alarm time is moved forward by the minute.  
**Long pressing** (longer than 2 seconds): the alarm time is moved forward until the push-button is released.

**Please note:**  
If the push-button is not activated for 10 seconds, the setting mode of the alarm time deactivates itself. At the same time, 2 beeps are emitted to indicate that the alarm is switched on.



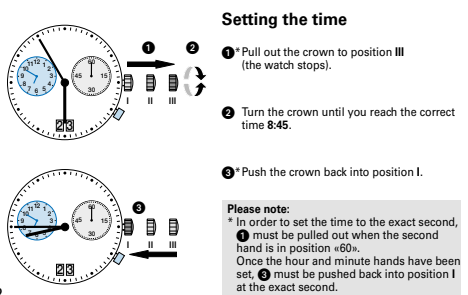
06

### Switching the alarm on/off

- The alarm is switched on/off by briefly pressing the push-button:  
**2 beeps** → alarm switched on  
**1 beep** → alarm switched off

**Please note:**  
The alarm can be set maximum 12 hours before the desired alarm time.

Once the set alarm time has been reached, a signal is emitted for 20 seconds. This signal is repeated after two minutes. Following brief pressing of the push-button, the signal is immediately switched off.

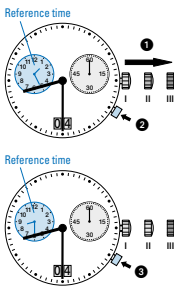


### Setting the time

- Pull out the crown to position III (the watch stops).
- Turn the crown until you reach the correct time 8:45.
- 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, 2 must be pushed back into position I at the exact second.

02



### Setting the reference time

- Pull out the crown to position III (second hand stops. The display changes from alarm time to reference time.)
- Activating the setting mode**  
Press the push-button for at least 2 seconds. As soon as the small minute hand jumps forwards one minute, this mode is active.
- Short pressing** (less than 1 second): the reference time is moved forwards by the minute.  
**Medium pressing** (1-2 seconds): the reference time is moved forwards by the hour.  
**Long pressing** (longer than 2 seconds): the reference time is moved forwards until the push-button is released.

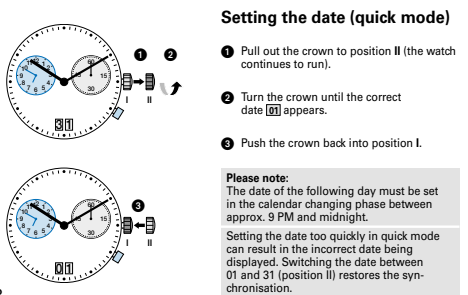
- Push the crown back into position I (the display changes from reference time to alarm time). A 1 beep signal indicates that the alarm is switched off.

**Please note:**  
The reference time must display the same time as the current time. This means that resetting the current time also requires the identical correction of the reference time. Afterwards, the alarm time has to be reset.

07

### What is the reference time?

The current time is displayed by means of the hour and minute hand.  
Parallel to the current time, the reference time runs in the background; the alarm time refers itself to this reference time. Thus, resetting the time also requires the identical correction of the reference time.  
If the reference time is not synchronised with the current time, this results in the alarm signal being emitted at a different time to the set alarm time.

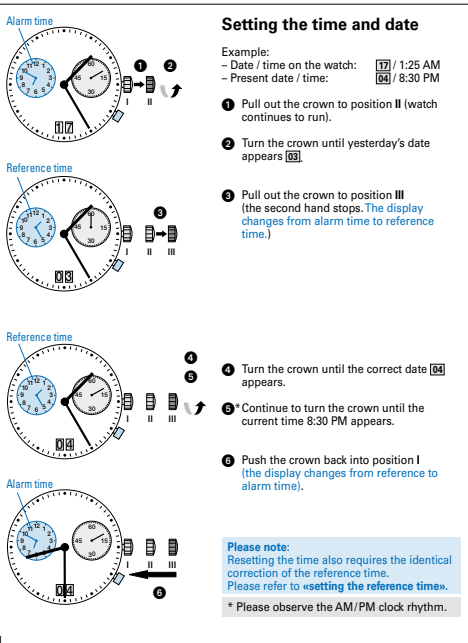


### Setting the date (quick mode)

- Pull out the crown to position II (the watch continues to run).
- Turn the crown until the correct date 09 appears.
- Push the crown back into position I.

**Please note:**  
The date of the following day must be set in the calendar changing phase between approx. 9 PM and midnight.  
Setting the date too quickly in quick mode can result in the incorrect date being displayed. Switching the date between 01 and 31 (position II) restores the synchronisation.

03



### Setting the time and date

Example:  
- Date / time on the watch: 07 / 1:25 AM  
- Present date / time: 04 / 8:30 PM

- Pull out the crown to position II (watch continues to run).
- Turn the crown until yesterday's date appears 03.
- Pull out the crown to position III (the second hand stops. The display changes from alarm time to reference time.)
- Turn the crown until the correct date 04 appears.
- Continue to turn the crown until the current time 8:30 PM appears.
- Push the crown back into position I (the display changes from reference to alarm time).

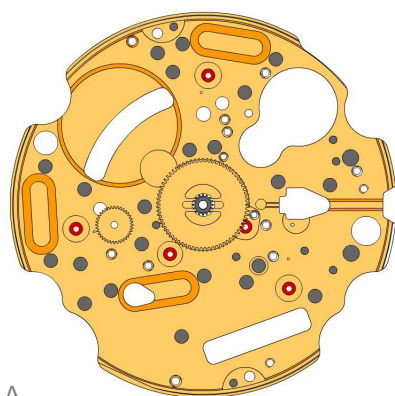
**Please note:**  
Resetting the time also requires the identical correction of the reference time. Please refer to «setting the reference time».  
\* Please observe the AM/PM clock rhythm.

04

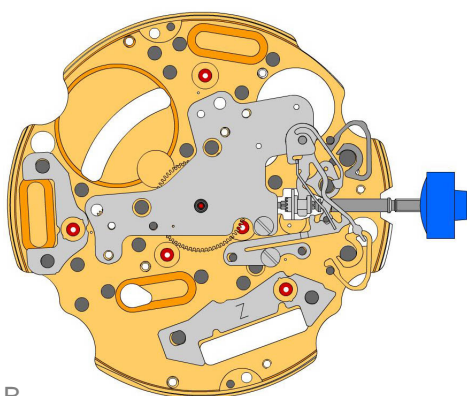


Battery type: 395 / SR927SW  
Accuracy: +20 / -10 seconds per month

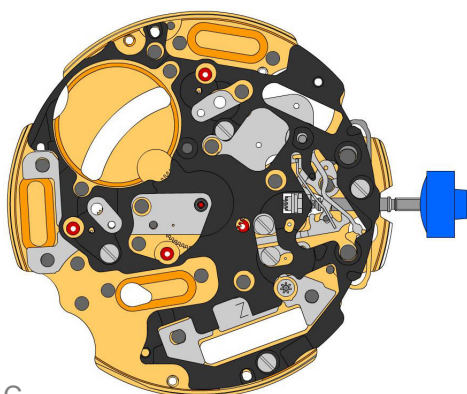







A



















B

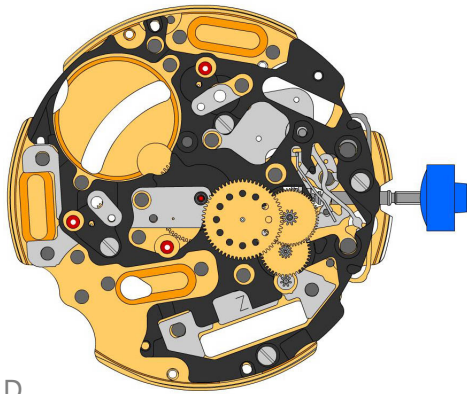


C

2000.574.G 1.		Main plate
3305.290.CO 2.		Cannon pinion with driver (Aig.2, closed)
3301.243 3.		Hour wheel (counter 24h)

2030.024.CO 4.		Centre bridge Center 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 held by 1 screw 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 4 screws 4000.250.
4000.250 18.		Screw
3715.094.RK 19.		Rotor

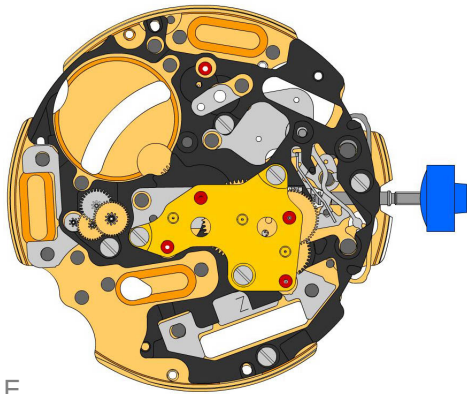


D


3147.046.CO  
20.  Intermediate wheel

3136.142.CO  
21.  Second wheel (long)

3122.056.CO  
22.  Third wheel




E

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

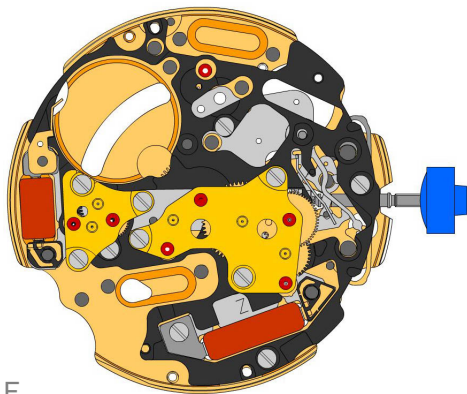
4000.250  
24.  Screw

3715.095.RK  
25.  Rotor


3147.048.CO  
26.  Intermediate wheel (counter)

3007.055.CO  
27.  Minute wheel (counter 24h)


3402.007.CO  
28.  Minute counting wheel (24h)




F

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

4000.250  
30.  Screw

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.

4000.250  
33.  Screw

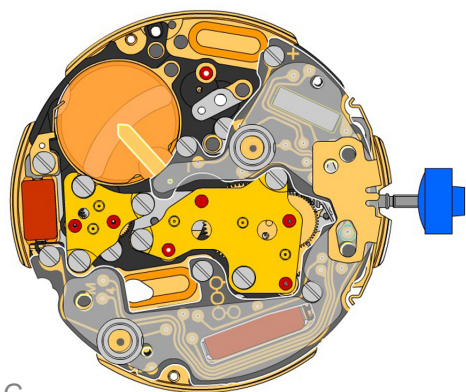
3601.118  
34.  Contact strip  
Contact strip held by 1 screw 4000.250.







4000.250  
35.  Screw

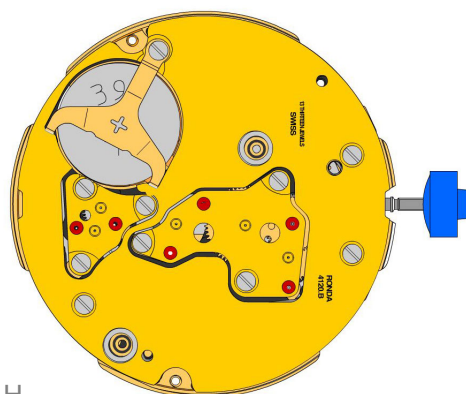
3603.034  
36.  Battery insulator





3503.054  
37.  Tube

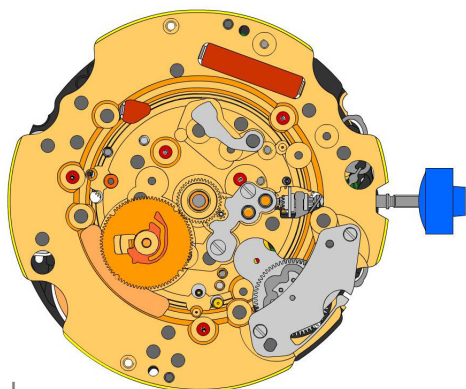
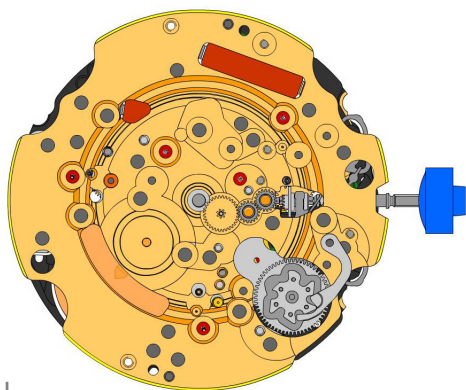
3503.054  
38.  Tube
















**G**

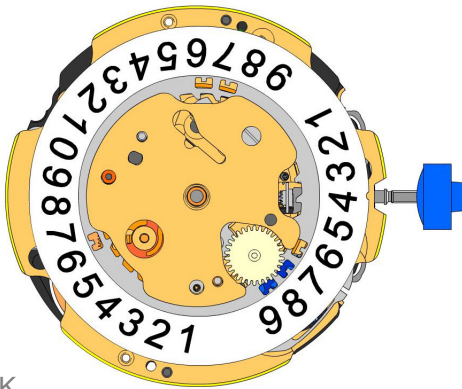
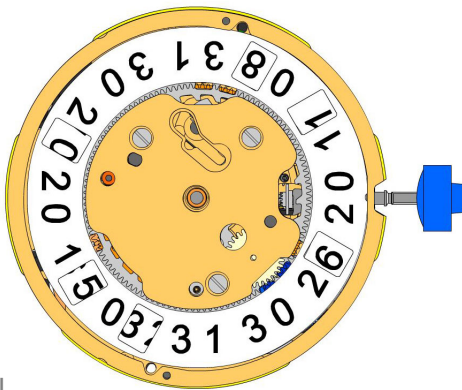
3612.176.4120 39.		<b>Electronic module</b> Electronic module held by 5 screws 4000.248. Electronic measurements may be realised now.
4000.248 40.		<b>Screw</b>
3603.069 41.		<b>Circuit insulator</b>
3603.070 42.		<b>Contact insulator</b>
3603.070 43.		<b>Contact insulator</b>
3601.107.G 44.		<b>Pusher contact spring</b>






**H**





2130.160.G.M01.4120B 45.		<b>Electronic module cover</b> Electronic module held by 5 screws 4000.248.
3600.010.HGF 46.		<b>Battery 395</b>
3601.109.G 47.		<b>Bridle +</b> Bridle held by 1 screw 4000. 250.
4000.250 48.		<b>Screw</b>







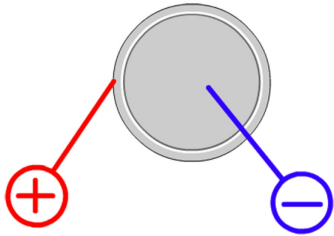
2000.574.G 49.		Main plate
3004.164 50.		Setting wheel
3004.164 51.		Setting wheel
3007.054.CO 52.		Minute wheel
2130.143 53.		Minute train bridge Minute train bridge held by 2 screws 4000.250.
4000.305 54.		Screw
3004.227 55.		Tens indicator driving wheel The short tooth of the tens indicator driving wheel must point to the center of the movement.
3500.075 56.		Tens jumper
2130.142 57.		Tens jumper maintaining plate Tens jumper maintaining plate held by 2 screws 4000.306. Tensioning the spring arm.
4010.306 58.		Screw
3301.242 59.		Hour wheel (Fig.2)
3315.016 60.		Friction spring
3004.224.CO 61.		Date indicator driving wheel
3500.049 62.		Date jumper


**K**

**L**

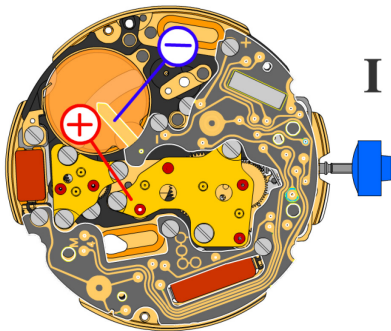
3504.214.AD.1.A 63.		<b>Units indicator (standard)</b> Nick of the indicator at 3 o'clock.
3147.054 64.		<b>Tens intermediate wheel</b>
2130.141 65.		<b>Date indicator maintaining plate</b> Date indicator maintaining plate held by 1 screw 4000.250.
3905.070 66.		<b>Date jumper spring</b> Insert the date jumper spring in the provided opening.

3504.215.AD.1.A 67.		<b>Tens indicator (standard)</b> Nick of the indicator at 3 o'clock.
2130.140.G 68.		<b>Date mechanism maintaining plate</b> Date mechanism maintaining plate held by 2 screws 4000.250.
4000.250 69.		<b>Screw</b>
3506.072.G 70.		<b>Dial support</b>

8200 71.		<b>Moebius 8200</b>
9014 72.		<b>Moebius 9014</b>
124 73.		<b>Jismaa 124</b>
9020 74.		<b>Moebius 9020</b>

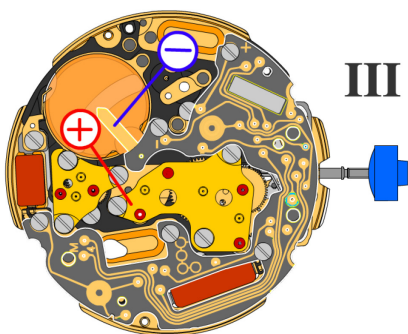


Battery	<b>395</b>
Voltage	<b>1.55 V</b>



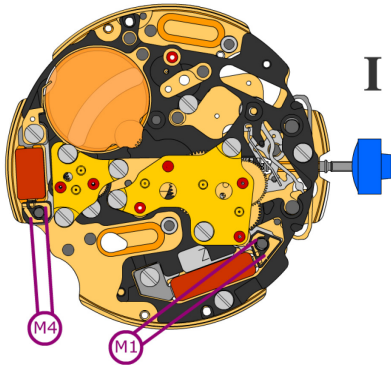
*Setting stem in position I, calendar not in gear,  
60 s measuring interval for rate and consumption:*

Typical consumption	<b>1.42 <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:*

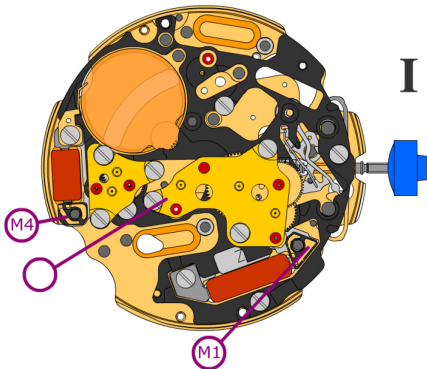
Typical consumption	<b>0.10 <math>\mu</math>A</b>
Maximal consumption	<b>0.30 <math>\mu</math>A</b>



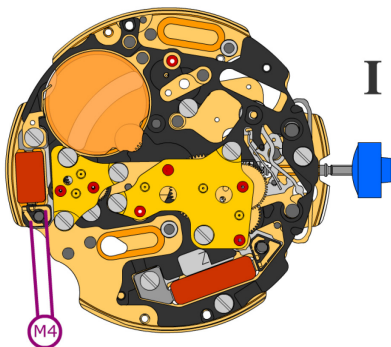
Coil resistance M1

**1.90 k $\Omega$  .. 2.10 k $\Omega$** 

Coil resistance M4

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


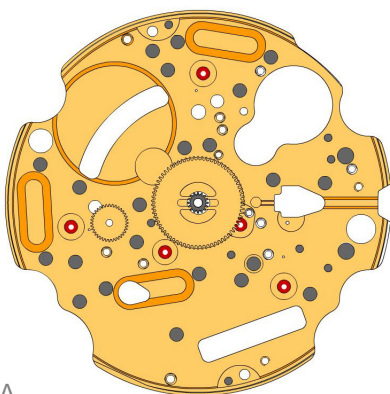
Coil isolation M1/M4

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

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

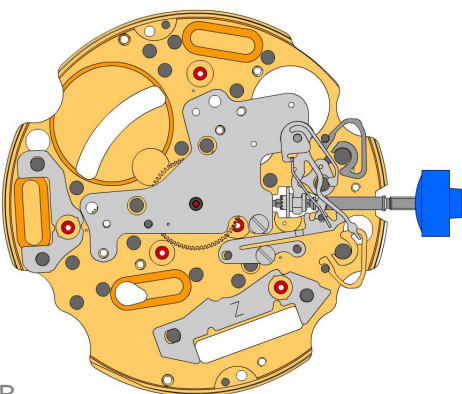
Lower working voltage limit M4

**1.20 V**

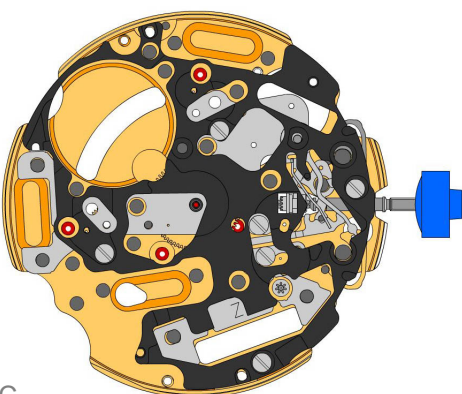







A




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 24h)

2030.017.CO 4.		Centre bridge Center bridge held by 1 screw 4000.250. Parts 2030.017.CO, 3004.223 and 3500.059 must be exchanged together.
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4000.250 5.		Screw
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3001.055.FI 6.		Sliding pinion
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3000.177.CO 7.		Setting stem
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3017.049 8.		Setting lever
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3905.049 9.		Setting lever jumper (3 positions) Setting lever jumper held by 1 screw 4000.250.
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4000.250 10.		Screw
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3015.081 11.		Yoke (3 positions) Parts 3015.081 and 3905.067 must be exchanged together.
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3905.067 12.		Yoke spring Tensioning the spring arm. Parts 3015.081 and 3905.067 must be exchanged together.
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3406.030 13.		Pusher jumper B Put the grey jumper between the two posts on the further side.
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3406.038 14.		Pusher jumper A Put the yellow jumper between the two posts on the closer side.
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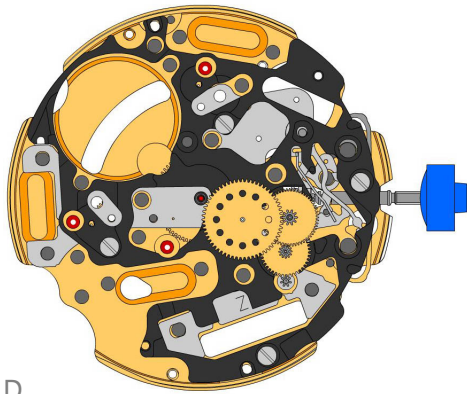
3622.040 15.		Stator Mark [Z] on stator.
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3622.039 16.		Stator (counter 6h, 9h, chrono)
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3603.079 17.		Plastic bracket Plastic bracket held by 4 screws 4000.250.
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4000.250 18.		Screw
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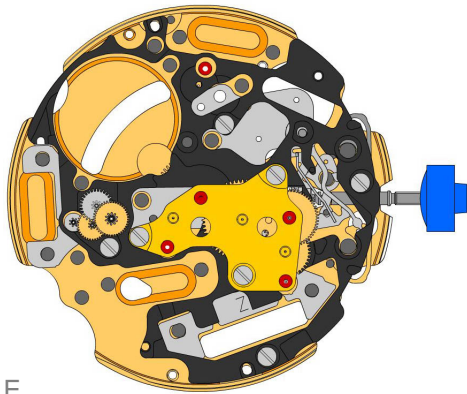
3715.094.RK 19.		Rotor
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**D**

3147.046.CO  
20.  Intermediate wheel

3136.142.CO  
21.  Second wheel (long)

3122.056.CO  
22.  Third wheel


**E**

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

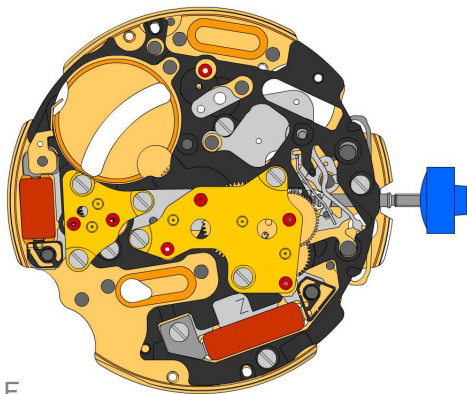
4000.250  
24.  Screw


3715.095.RK  
25.  Rotor

3147.048.CO  
26.  Intermediate wheel (counter)


3007.055.CO  
27.  Minute wheel (counter 24h)


3402.007.CO  
28.  Minute counting wheel (24h)


**F**

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

4000.250  
30.  Screw

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.

4000.250  
33.  Screw

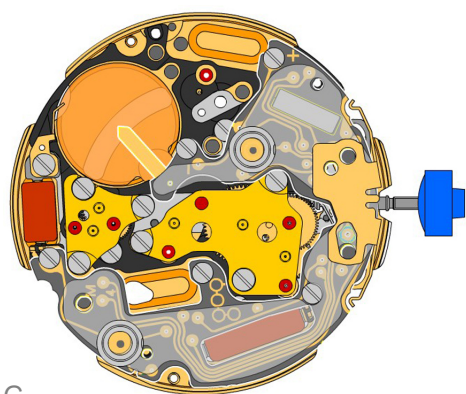
3601.118  
34.  **Contact strip**  
Contact strip held by 1 screw 4000.250.







4000.250  
35.  Screw

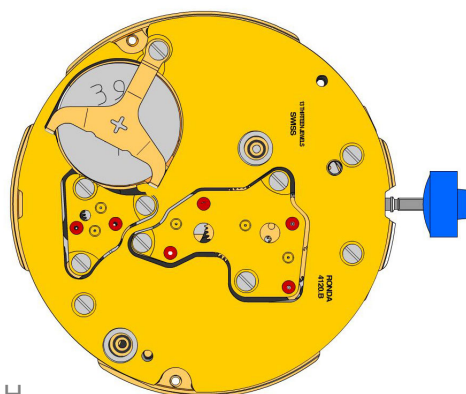
3603.034  
36.  **Battery insulator**





3503.054  
37.  Tube

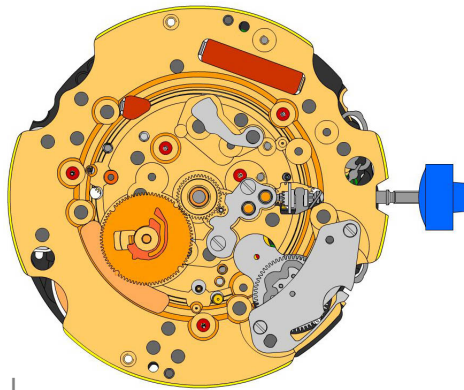
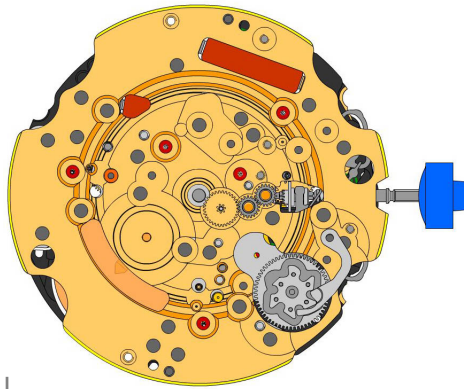
3503.054  
38.  Tube
















**G**

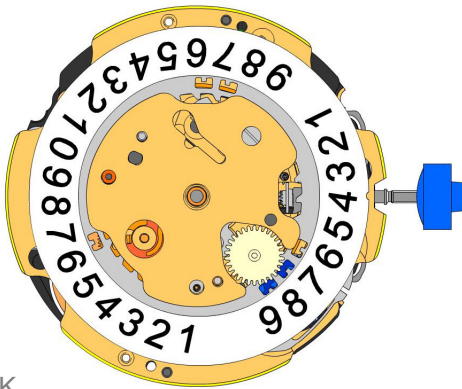
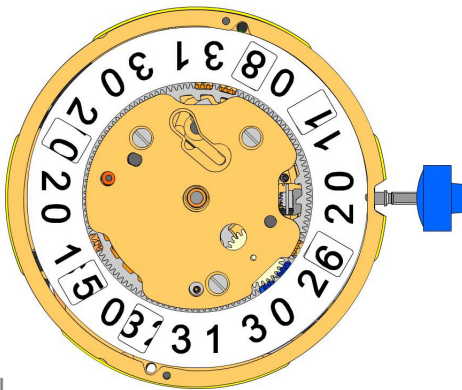
3612.176.4120 39.		<b>Electronic module</b> Electronic module held by 5 screws 4000.248. Electronic measurements may be realised now.
4000.248 40.		<b>Screw</b>
3603.069 41.		<b>Circuit insulator</b>
3603.070 42.		<b>Contact insulator</b>
3603.070 43.		<b>Contact insulator</b>
3601.107.G 44.		<b>Pusher contact spring</b>






**H**





2130.160.G.M01.4120B 45.		<b>Electronic module cover</b> Electronic module held by 5 screws 4000.250.
3600.010.HGF 46.		<b>Battery 395</b>
3601.109.G 47.		<b>Bridle +</b> Bridle held by 1 screw 4000. 250.
4000.250 48.		<b>Screw</b>







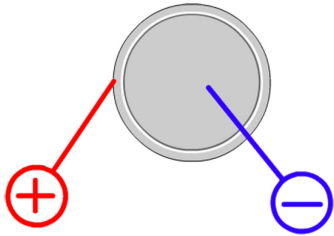
2000.574.G 49.		Main plate
3004.164 50.		Setting wheel
3004.164 51.		Setting wheel
3007.054.CO 52.		Minute wheel
2130.143 53.		Minute train bridge Minute train bridge held by 2 screws 4000.305.
4000.305 54.		Screw
3004.223 55.		Tens indicator driving wheel Parts 2030.017.CO, 3004.223 and 3500.059 must be exchanged together. The short tooth of the tens indicator driving wheel must point to the center of the movement.
3500.059 56.		Tens jumper Parts 2030.017.CO, 3004.223 and 3500.059 must be exchanged together.
2130.142 57.		Tens jumper maintaining plate Tens jumper maintaining plate held by 2 screws 4000.306. Tensioning the spring arm.
4010.306 58.		Screw
3301.242 59.		Hour wheel (Aig.2)
3315.016 60.		Friction spring
3004.224.CO 61.		Date indicator driving wheel
3500.049 62.		Date jumper


**K**

**L**

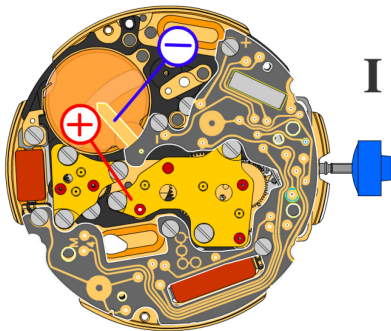
3504.214.AD.1.A 63.		<b>Units indicator (standard)</b> Nick of the indicator at 3 o'clock.
3147.054 64.		<b>Tens intermediate wheel</b>
2130.141 65.		<b>Date indicator maintaining plate</b> Date indicator maintaining plate held by 1 screw 4000.250.
3905.070 66.		<b>Date jumper spring</b> Insert the date jumper spring in the provided opening.

3504.215.AD.1.A 67.		<b>Tens indicator (standard)</b> Nick of the indicator at 3 o'clock.
2130.140.G 68.		<b>Date mechanism maintaining plate</b> Date mechanism maintaining plate held by 2 screws 4000.250.
4000.250 69.		<b>Screw</b>
3506.072.G 70.		<b>Dial support</b>

8200 71.		<b>Moebius 8200</b>
9014 72.		<b>Moebius 9014</b>
124 73.		<b>Jismaa 124</b>
9020 74.		<b>Moebius 9020</b>

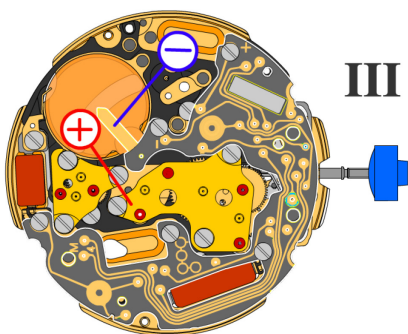


Battery	<b>395</b>
Voltage	<b>1.55 V</b>



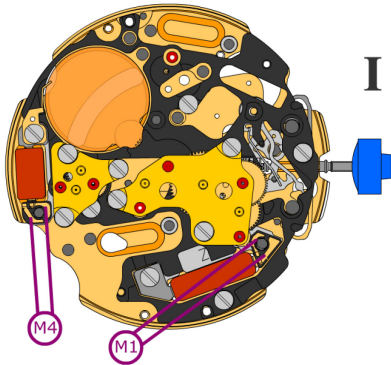
*Setting stem in position I, calendar not in gear,  
60 s measuring interval for rate and consumption:*

Typical consumption	<b>1.42 <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:*

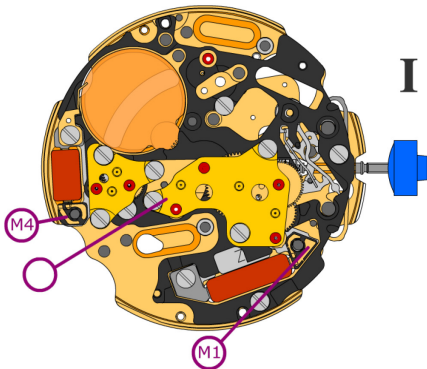
Typical consumption	<b>0.10 <math>\mu</math>A</b>
Maximal consumption	<b>0.30 <math>\mu</math>A</b>



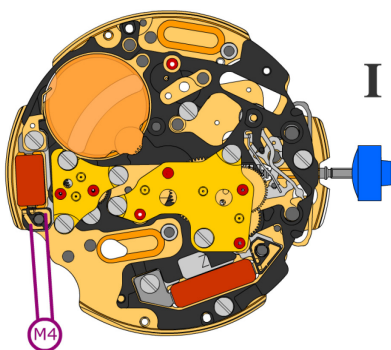
Coil resistance M1

**1.90 k $\Omega$  .. 2.10 k $\Omega$** 

Coil resistance M4

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


Coil isolation M1/M4

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

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

Lower working voltage limit M4

**1.20 V**