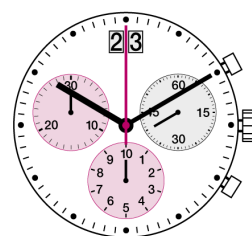


# RONDA startech 5000

Chronographs, Big Date & Date,  
different calendar systems, Alarm

*Caliber 5040.B – 12½'''*



## Product Specifications

Analog quartz movement

Line

startech

Caliber

5040.B

Size

12½'''

Version Swiss Made  
Swiss Parts

13 Jewels / gold plated  
6 Jewels / nickel plated

Standard battery life

54 months

Hand fitting height

1

## Features

- Hand Heights 1 and 2
- Repairable metal watch movement
- Very long battery life
- Power saving mechanism with pulled out stem: Reduction of consumption approximately 70%
- Very easy handling by two pushers

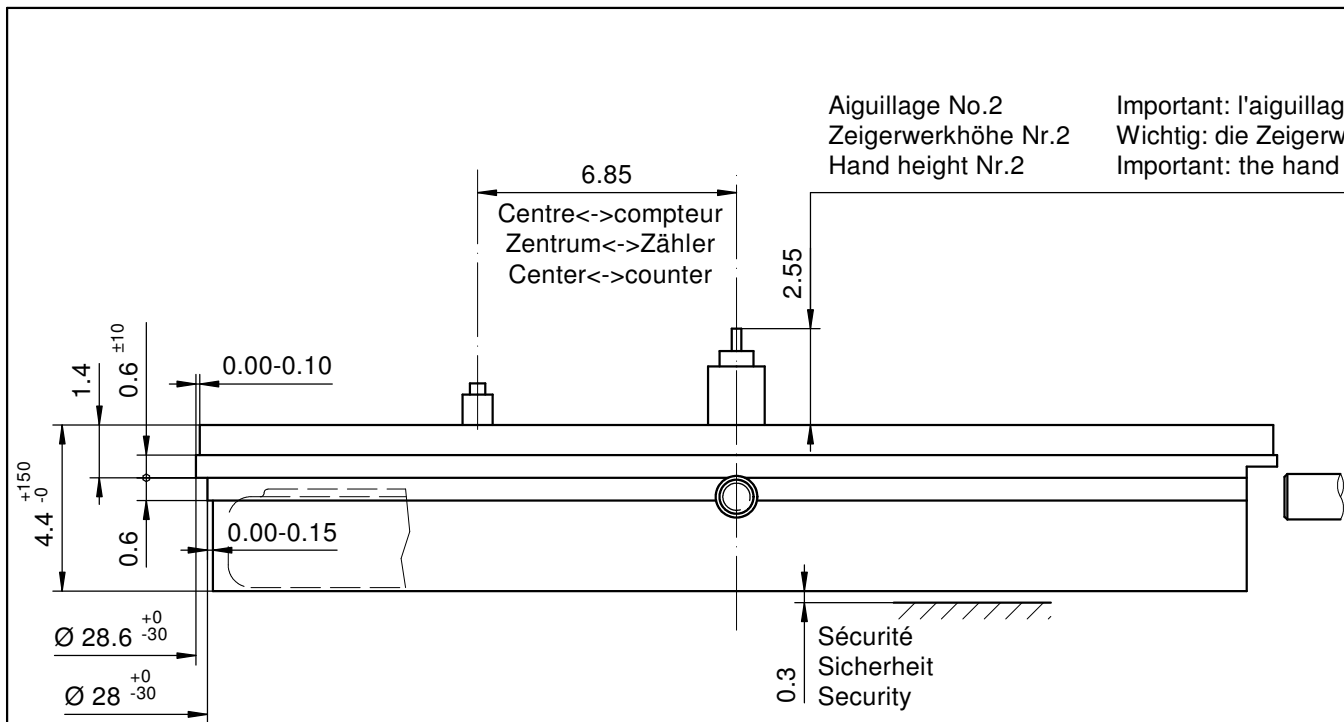
**Functions**

- 3 eyes
- Chronograph
- Center stop second (1/1 sec)
- 1/10 second
- 1/10 seconds up to 30 minutes
- 30 minute counter
- 10 hour counter
- ADD and SPLIT functions
- 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	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
Useful torque center stop second – typical	7 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



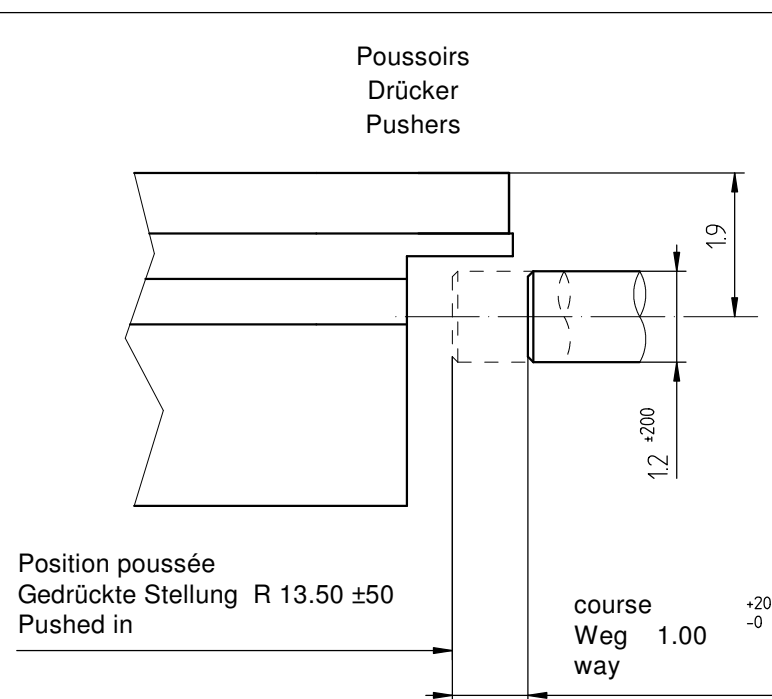


Aiguillage No.2  
Zeigerwerkhöhe Nr.2  
Hand height Nr.2

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:

Poussoirs  
Drücker  
Pushers



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.

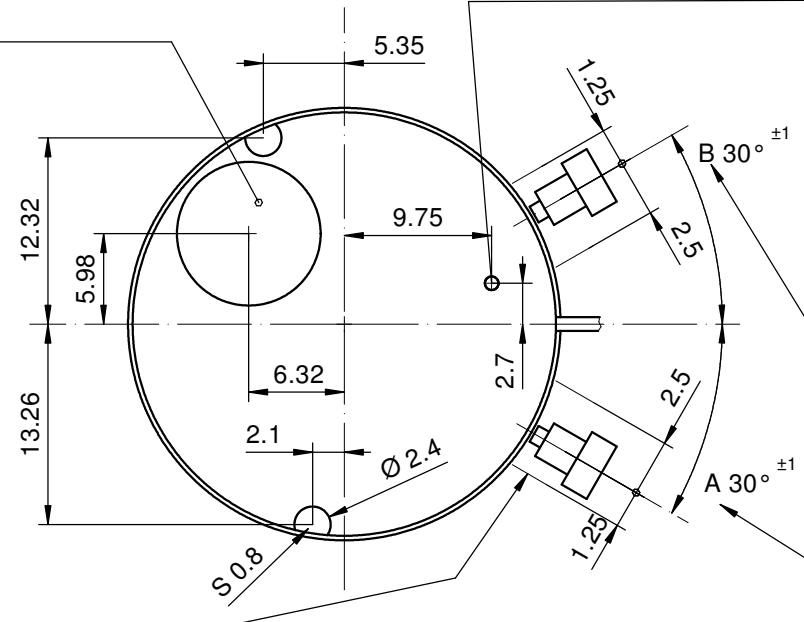
Die Weglänge des Drückers ist im Drücker selbst zu begrenzen. In der gedrückten Stellung ist seine Position zu kontrollieren

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

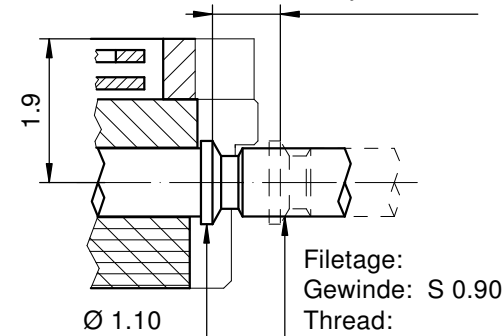
Position pour extraire la tige  
Position zum Entfernen der Stellwelle  
Position to remove the stem

Pile  
Batterie (395) Ø 9.50 x 2.60mm  
Battery

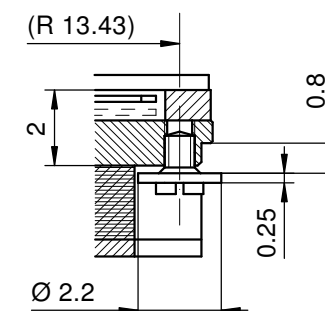


Stellwelle  
Tige  
Stem

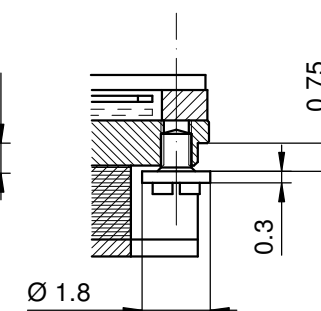
Chemin:  
Weg: 0.90  
Way:



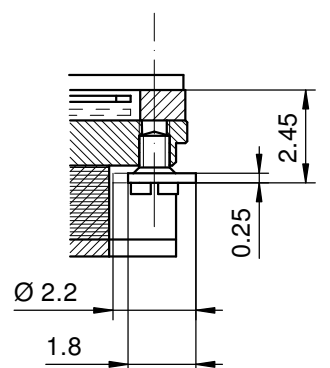
Vis  
Schraube Nr. 4000.310  
Screw



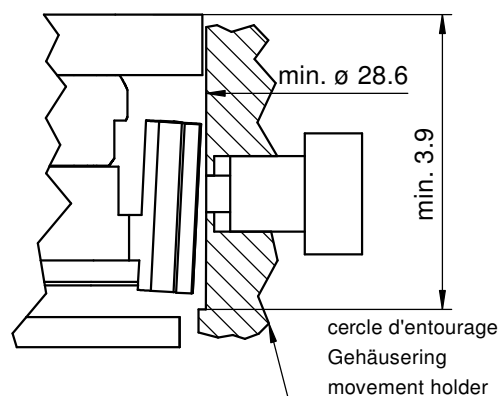
Vis  
Schraube Nr. 4000.195  
Screw



Vis  
Schraube Nr. 4000.194  
Screw



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.

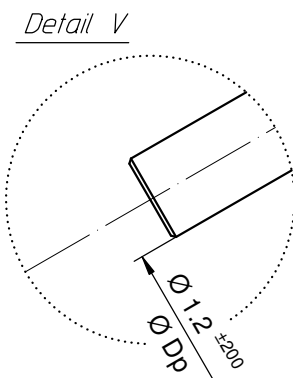
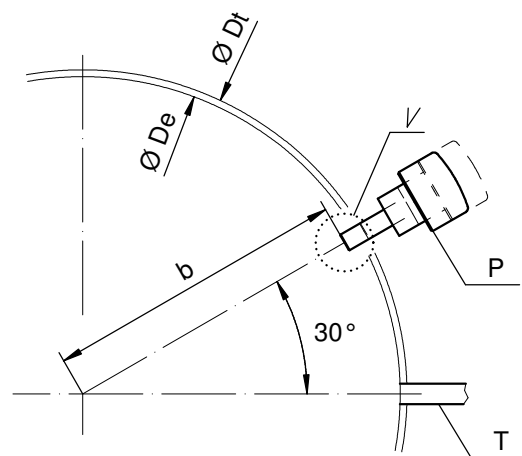
Cage  
Uhrwerkgestell 12½"  
Frame

RONDA

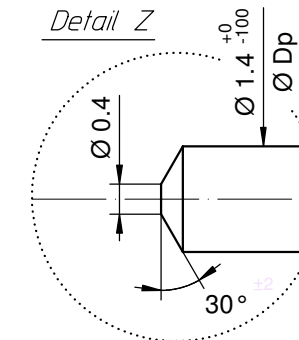
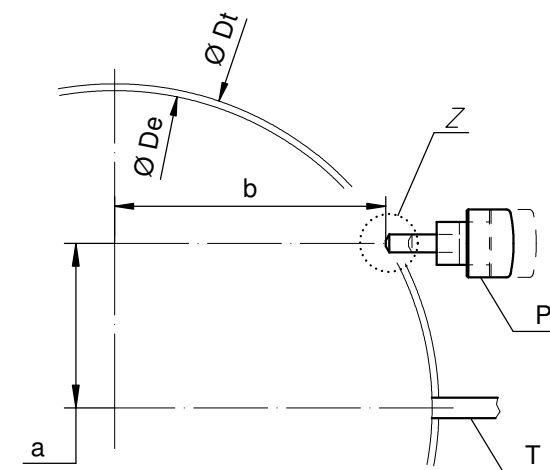
5040.B, 5040.D, 5030.D, 5021.D, 5040.E

Issued	08 Jan 2001	mg
Modified	31 Aug 2016 ÅA 34777	dh
Released	YES	
Tolerance	+/- 20 µm	
Scale	10 : 1 (5 : 1) (A3H)	
Sous réserve de modifications Änderungen vorbehalten Modifications reserved		
No.	5000.315	10

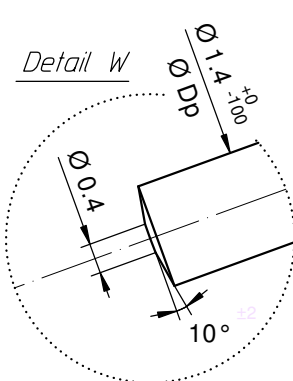
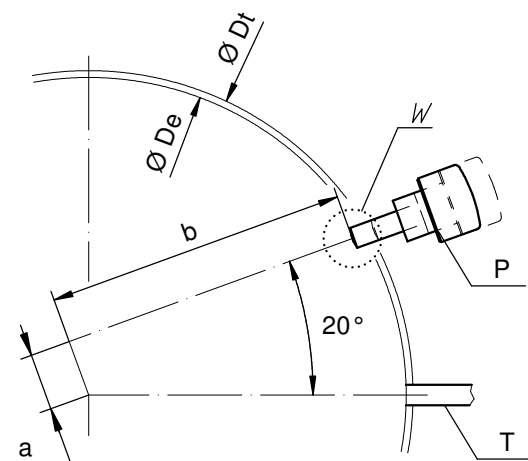
Angle Winkel Angle	30°	
Ø Dp	b	
1.00	13.50	
1.10	13.50	
1.20	13.50	
1.30	13.50	
1.40	13.50	



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

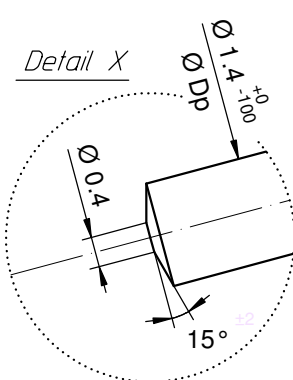
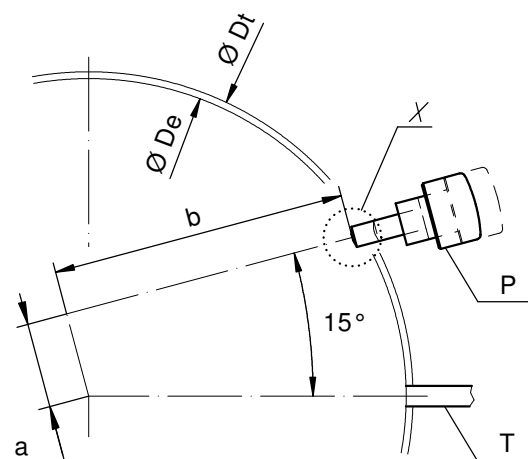
Ø Dp: diamètre du poussoir  
Drückerdurchmesser  
pusher-diameter

Ø Dt: diamètre total  
Totaldurchmesser  
total-diameter

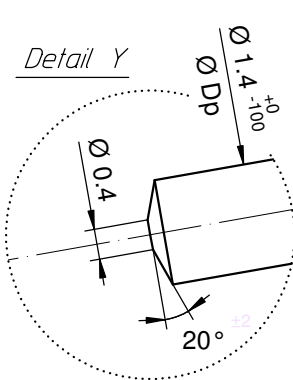
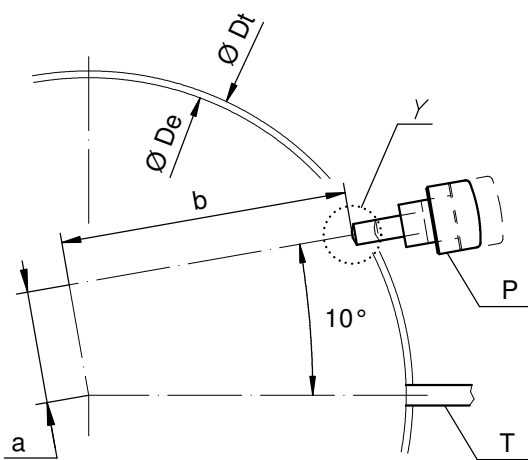
P: poussoir en position poussée  
Drücker in gedrückter Stellung  
pusher in pressed position

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



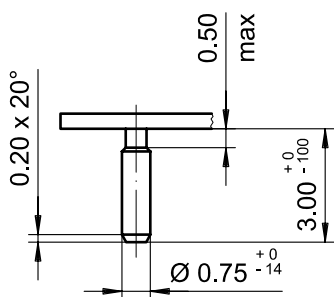
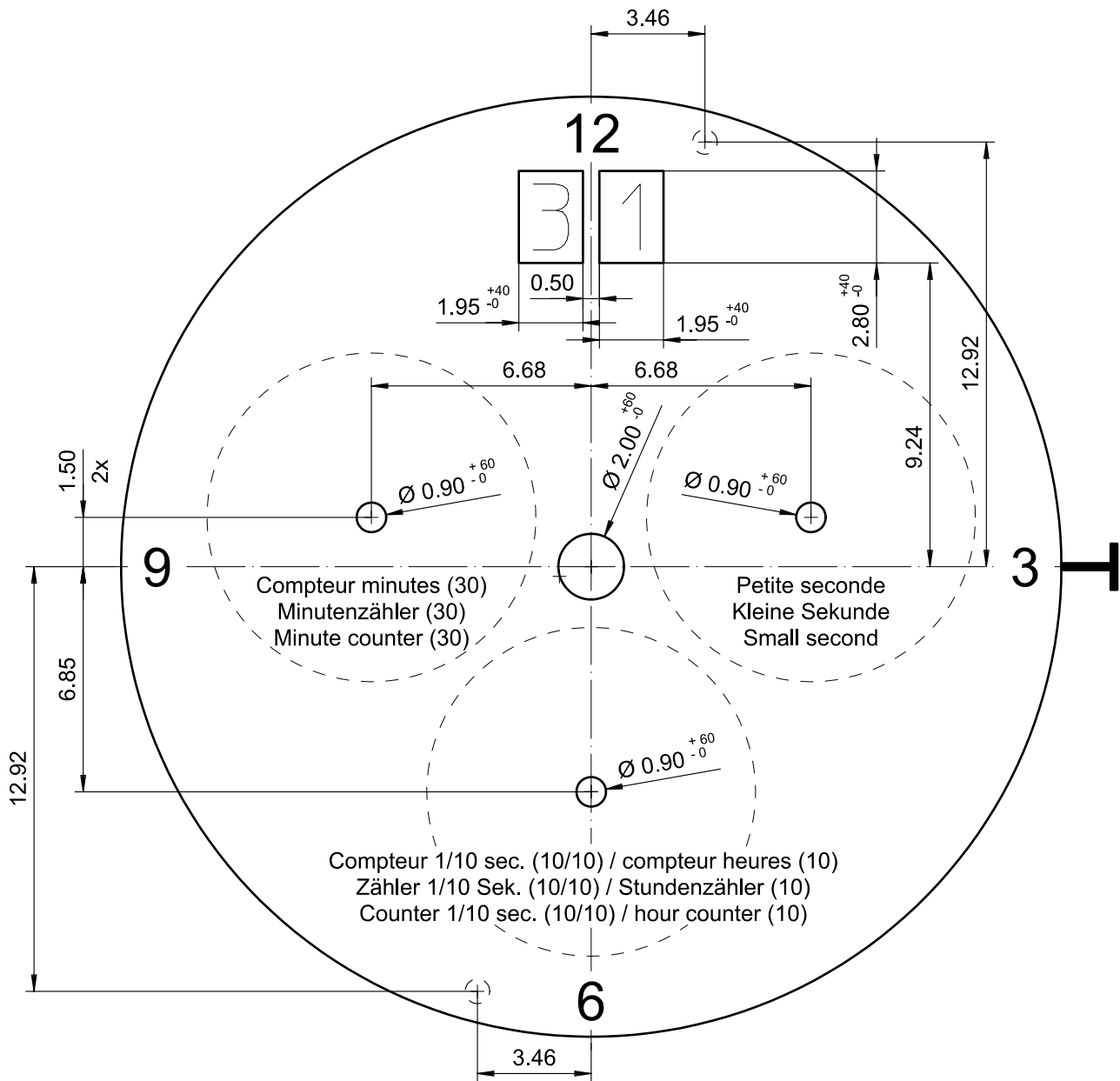
Angle Winkel Angle	10°	
Ø Dp	a	b
1.30	5.06	12.52
1.40	5.10	12.50



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



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>
	<input type="checkbox"/>

Cadran  
 Zifferblatt  
 Dial

12 1/2'''

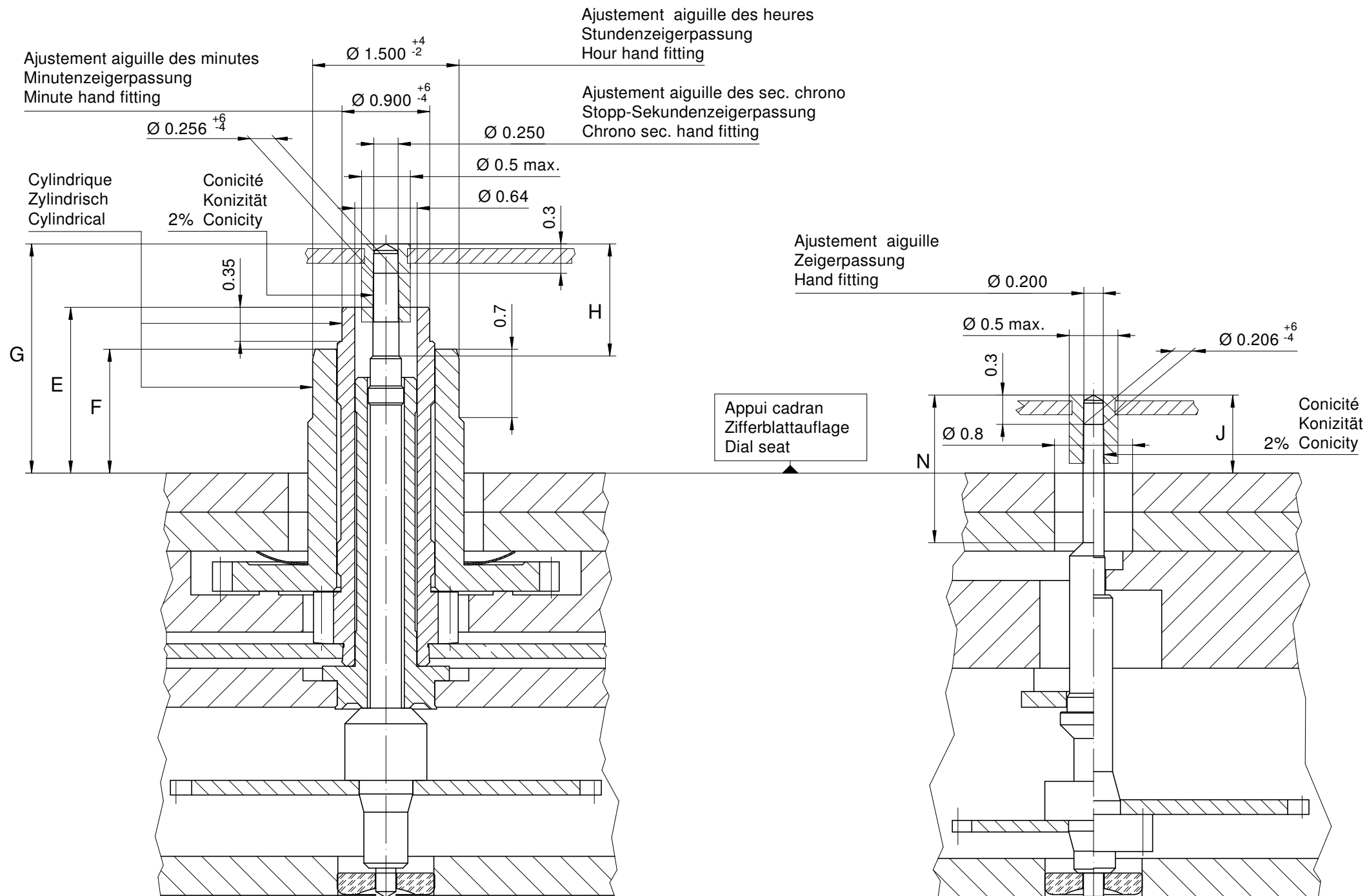
Issued	13 Dez 2006	cw
Modified	15.Dez.2006 ÄA ----	cm
Released	YES	
Tolerance	+/- 20 µm	
Scale	5 : 1 (A4V)	

RONDA

5040.B

Sous réserve de modifications  
 Aenderungen vorbehalten  
 Modifications reserved

No. 5010.692 03



Heures / minutes / secondes chrono  
 Stunden / Minuten / Stopp-Sekunden  
 Hours / minutes / chrono second

Compteur 1 aiguille / 1 Zeiger Zähler / 1 Hand counter  
 Petite seconde / Kleine Sekunde / Small second

Aiguillages Zeigerwerkhöhe Hand fitting height							
Dépassement Höhe über Zifferblattauflage Height over dial seat							
No	G	E	F	H	N	J	J
1	2.35	1.70	1.27	1.37	1.50	0.80	0.80
2	2.85	2.20	1.77	1.87	1.05	1.30	1.30

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 secondes chrono Unter Stopp-Sekundenzeiger Under chrono 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 de petite seconde Unter kleine Sekundenzeiger Under small second hand	Sous l'aiguille compteur 1 aiguille Unter Zeiger 1 Zeiger Zähler Under hand 1 hand counter	Epaisseur des aiguilles Zeigerdicke Hands thickness
1	1.85	1.30	0.85	0.40	0.40	0.15
2	2.35	1.80	1.35	0.90	0.90	0.15

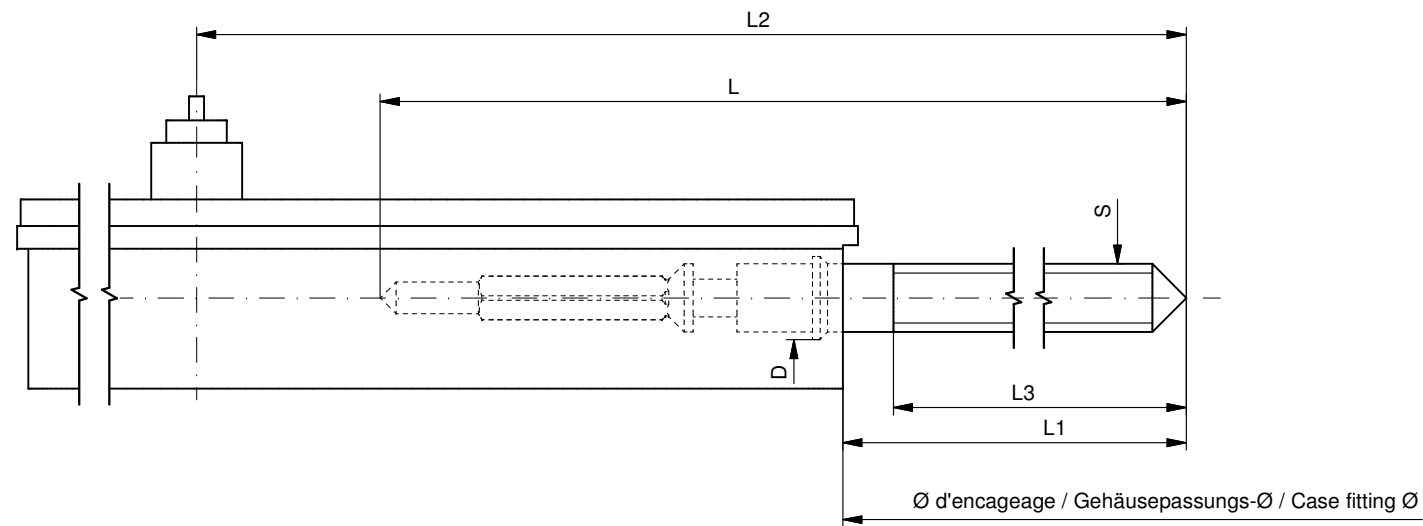
	Aig. des sec. chrono Stopp-Sekundenzeiger Chrono second hand	Aig. des minutes Minutenzeiger Minute hand	Aig. des heures Stundenzeiger Hour hand	Aig. petite secondes Kleine Sekundenzeiger Small second hand	Aiguille compteur (1 aig.) Zähler Zeiger (1 Zeiger) Counter hand (1 hand)	Lors de la pose d'aiguilles, le mouvement doit être soutenu. Beim Zeigersetzen muss das Werk abgestützt werden. The movement needs to be supported for hand setting.
mg max.	10	30	30	10	10	Masse / Masse / Weight *
µNm max.	0.06	0.80	0.80	0.07	0.02	Balourd / Unwucht / Unbalance *
gmm <sup>2</sup> max.	1.0	-	-	0.4	1.0	Inertie / Massenträgheit / Inertia *
N max.	30	40	40	30	30	Force de chassage / Aufpresskraft / Force

Aiguillages Zeigerwerkhöhen 12 1/2" Hand fitting heights		Issued	30 Sep 2002	mg
		Modified	15 Okt 2014 ÄA 13275	dh
RONDA 5040.B, 5040.D, 5040.E		Released	Yes	
		Tolerance	µm	
Sous réserve de modifications Änderungen vorbehalten Modifications reserved		Scale	20 : 1 (A3H)	
		No.	3316.075	08

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

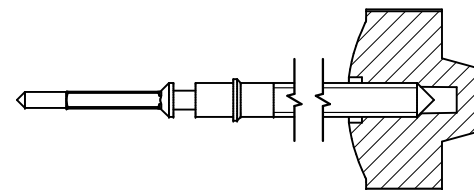
\* Bei abweichenden Werten, bitte technischen Kundendienst anfragen

\* 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)

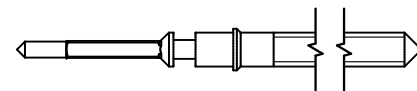
No. d'article Artikelnummer Part number	L	L1	L2	L3	S	D
3000.177.CO	20.00	10.23	24.23	10.15	0.90	1.10



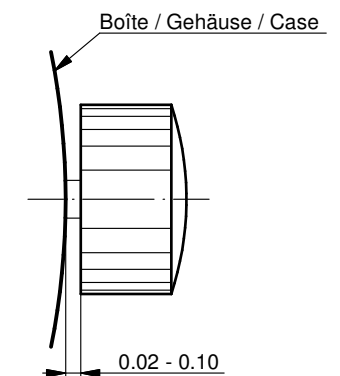
Couleur de la couronne Kronenfarbe Crown color	bleu foncé dunkelblau dark blue
Code	UN 5002

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

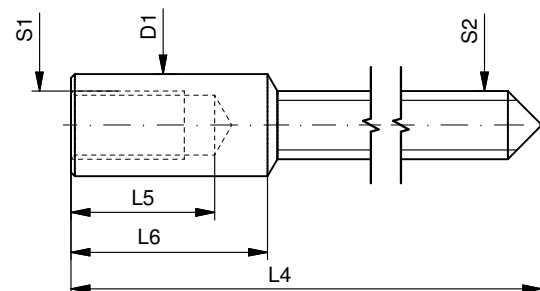


Couronne vissée  
 Geschraubte Krone  
 Screwed crown

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**

5010.B, 5020.B, 5021.D, 5030.D,  
 5040.B, 5040.D, 5040.E, 5040.F,  
 5050.B, 5050.C, 5051.C, 5130.B, 5130.D

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.	5030.019	01
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**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
- Zero chronograph hand\*
- Crown in position II
- Set date
- Crown in position I

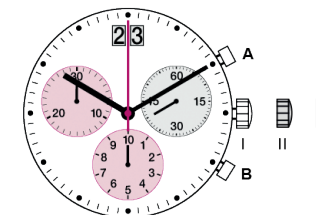
### Date switching duration

First and tenth digit discs

~2hrs

### \*Zeroing the Chronograph hand

- Activate pusher A and B for 2 seconds at the same time  
(Chrono seconds hand rotates once)
- Pusher A → to correct chrono seconds hand
- Pusher B → to jump to hour hand
- Pusher A → to correct hand position
- Pusher B → to jump to minute hand
- Pusher A → to correct hand position



### 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

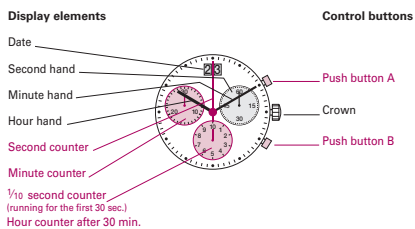
During quick date correction (setting stem in position II), a date switching speed of 5 d/s must not be exceeded.



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**



01

**Chronograph: Basic function**

(Start / Stop / Reset)

Example:

- Start:** Press push-button A.
- Stop:** to stop the timing, press push-button A once more and read the chronograph hands: **4min/38sec/7/10 sec**
- Zero positioning:** Press push-button B. (The chronograph hands will be reset to their zero positions.)

05

**Chronograph: Accumulated timing**

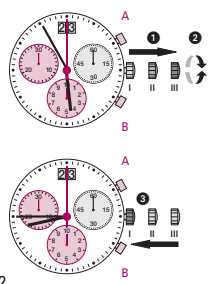
Example:

- Start:** (start timing)
- Stop:** (e.g. 15 min 5 sec following 1)
- Restart:** (timing is resumed)
- Stop:** (e.g. 5 min 12 sec following 3) = **20 min 17 sec**  
(The accumulated measured time is shown)
- Reset:** The chronograph hands are returned to their zero positions.

**Please note:**  
\* Following 4, the accumulation of the timing can be continued by pressing push-button A (Restart / Stop, Restart / Stop, ...).

06

**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

**Chronograph: Intermediate or interval timing**

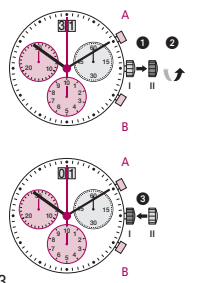
Example:

- Start:** (start timing)
- Display interval:** (e.g. 20 minutes 17 seconds (timing continues in the background))
- Making up the measured time:** (The chronograph hands are quickly advanced to the ongoing measured time.)
- Stop:** (Final time is displayed)
- Reset:** The chronograph hands are returned to their zero position.

**Please note:**  
\* Following 3, further intervals or intermediates can be displayed by pressing push-button B (display interval / make up measured time, ...).

07

**Setting the date (quick mode)**



- Pull out the crown to position II (the watch continues to run).
- Turn the crown until the correct date appears.
- 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).

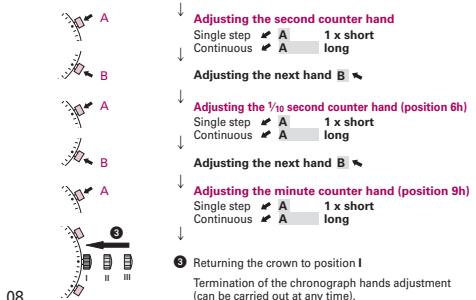
03

**Adjusting the chronograph hands to zero position**

Example:

One or several chronograph hands are not in their correct zero positions and have to be adjusted (e.g. following a battery change).

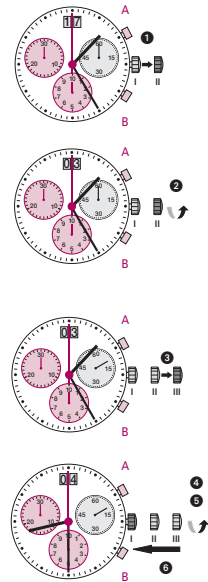
- Pull out the crown to position III (all chronograph hands are in their correct or incorrect zero position).
- Keep push-buttons A and B depressed simultaneously for at least 2 seconds (the second counter hand 360° → corrective mode is activated).



08

**Setting the date/time following a battery change**

Example:  
- Date / time on the watch: 17 / 1:25 AM  
- Present date / time: 24 / 8:30 PM



- Pull out the crown to position II (the watch continues to run).
- Turn the crown until yesterday's date appears.
- Pull out the crown to position III (the watch stops).
- Turn the crown until the correct date appears.
- Continue to turn the crown until the correct time 8:30 PM appears.
- Push the crown back into position I.

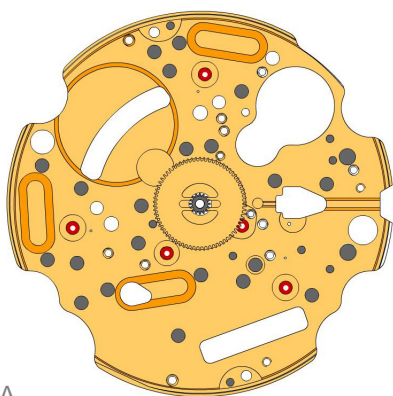
**Please note:**  
\* To set your watch to the exact second, please refer to the chapter entitled «setting the time».  
\*\*Please observe the AM/PM clock rhythm.

04

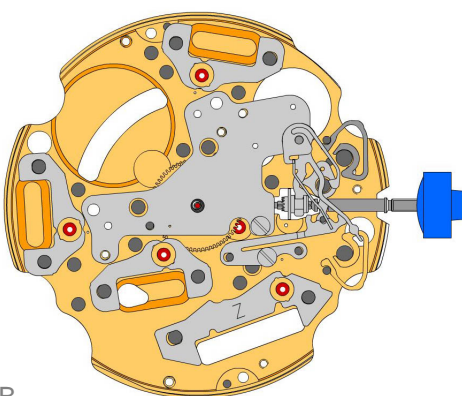


Battery type: 395 / SR927SW  
Accuracy: +20 / -10 seconds per month




















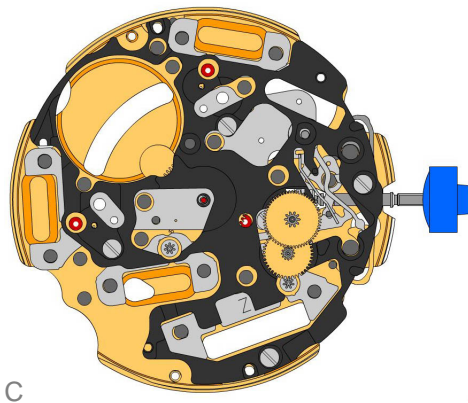








A

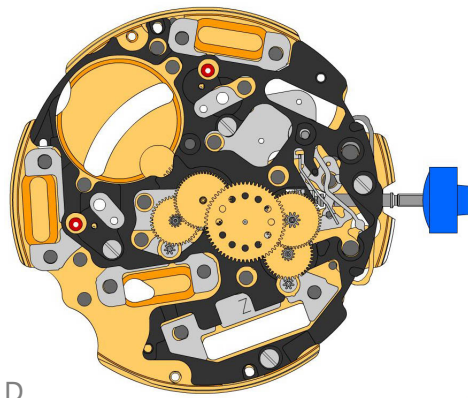





B

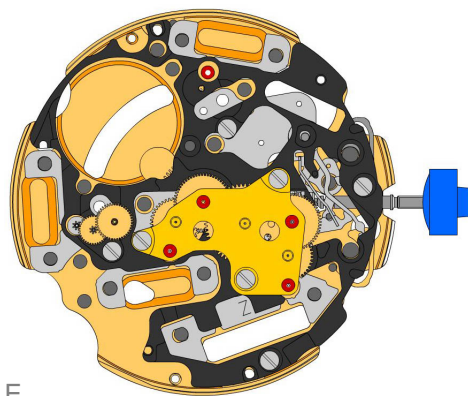
2000.574.G 1.		Main plate
3305.275.CO 2.		Cannon pinion with driver (Aig.1)
2030.032.CO 3.		Centre bridge Centre bridge held by 1 screw 4000.250.
4000.250 4.		Screw
3001.055.FI 5.		Sliding pinion
3000.177.CO 6.		Setting stem
3017.049 7.		Setting lever
3905.049 8.		Setting lever jumper (3 positions) Setting 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.
3622.040 14.		Stator Mark [Z] on stator.
3622.039 15.		Stator (counter 6h, 9h, chrono)
3622.039 16.		Stator (counter 6h, 9h, chrono)
3622.039 17.		Stator (counter 6h, 9h, chrono)








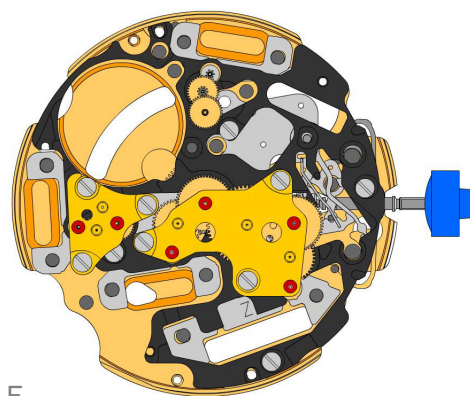
3603.079 18.		<b>Plastic bracket</b> Plastic bracket held by 4 screws 4000.250.
4000.250 19.		<b>Screw</b>
3715.094.RK 20.		<b>Rotor</b>
3715.094.RK 21.		<b>Rotor</b>
3147.046.CO 22.		<b>Intermediate wheel</b>
3136.142.CO 23.		<b>Second wheel (long)</b>








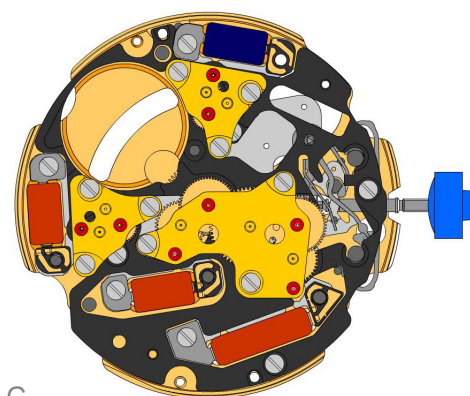
3147.047.CO 24.		<b>Intermediate wheel (chrono)</b>
3136.143.CO 25.		<b>Chronograph wheel (Aig.1)</b>
3122.056.CO 26.		<b>Third wheel</b>










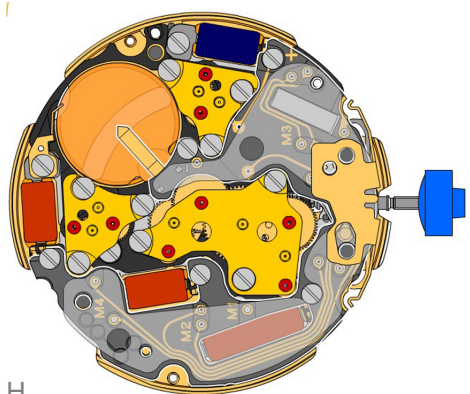
2020.148.G 27.		<b>Train wheel bridge</b> Train wheel bridge held by 3 screws 4000.250.
4000.250 28.		<b>Screw</b>
3715.095.RK 29.		<b>Rotor</b>
3147.048.CO 30.		<b>Intermediate wheel (counter)</b>
3402.006.CO 31.		<b>Minute counting wheel</b>









**F**

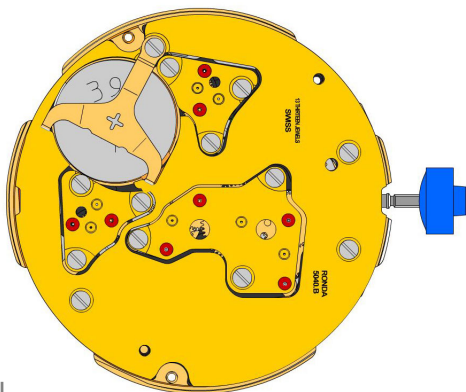
2020.149.G 32.		<b>Counter train wheel bridge</b> Counter train wheel bridge held by 3 screws 4000.250.
4000.250 33.		<b>Screw</b>
3715.095.RK 34.		<b>Rotor</b>
3147.053.CO 35.		<b>Intermediate wheel (counter 1/10sec)</b>
3402.016.CO 36.		<b>Counting wheel 1/10 sec</b>


**G**

2020.149.G 37.		<b>Counter train wheel bridge</b> Counter train wheel bridge held by 3 screws 4000.250.
4000.250 38.		<b>Screw</b>
3621.053.RK 39.		<b>Coil</b> Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.
3621.054.RK 40.		<b>Coil (counter 9h, chrono)</b> Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.
3621.054.RK 41.		<b>Coil (counter 9h, chrono)</b> Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.
3621.055.RK 42.		<b>Coil (counter 6h)</b> Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.
4000.250 43.		<b>Screw</b>


**H**

3601.118 44.		<b>Contact strip</b> Contact strip held by 1 screw 4000.250.
4000.250 45.		<b>Screw</b>
3603.034 46.		<b>Battery insulator</b>
3612.144.5040 47.		<b>Electronic module</b> Electronic module held by 5 screws 4000.248. Electronic measurements may be realised now.
4000.248 48.		<b>Screw</b>
3603.069 49.		<b>Circuit insulator</b>
3601.107.G 50.		<b>Pusher contact spring</b>

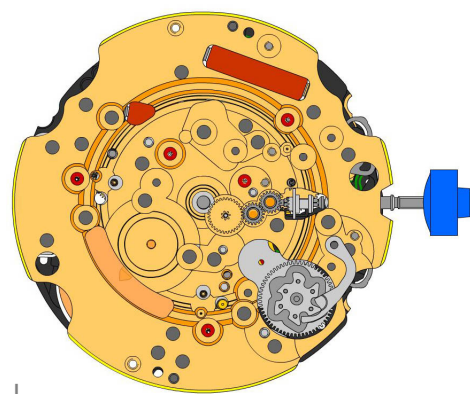


2130.137.G.M01.5040B  
51.  **Electronic module cover**  
Electronic module cover held by 3 screws 4000.250.

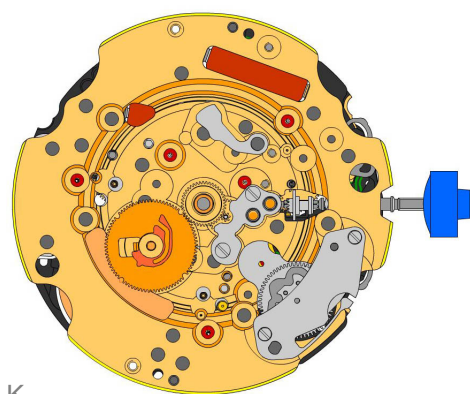
3600.010.HGF  
52.  **Battery 395**

3601.109.G  
53.  **Bridge +**  
Bridge held by 1 screw 4000.250.















4000.250  
54.  **Screw**

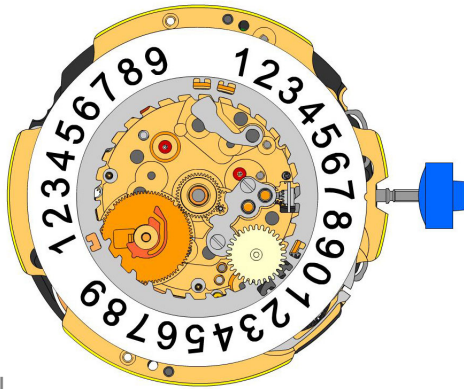


J



K

2000.574.G 55.		Main plate
3004.164 56.		Setting wheel
3004.164 57.		Setting wheel
3007.054.CO 58.		Minute wheel
2130.143 59.		Minute train bridge Minute train bridge held by 2 screws 4000.305.
4000.305 60.		Screw
3004.227 61.		Tens indicator driving wheel The short tooth of the tens indicator driving wheel must point to the center of the movement.
3500.075 62.		Tens jumper
2130.142 63.		Tens jumper maintaining plate Tensioning the spring arm. Tens jumper maintaining plate held by 2 screws 4000.306.
4010.306 64.		Screw
3301.241 65.		Hour wheel (Fig.1)
3315.016 66.		Friction spring
3004.224.CO 67.		Date indicator driving wheel
3500.049 68.		Date jumper





L

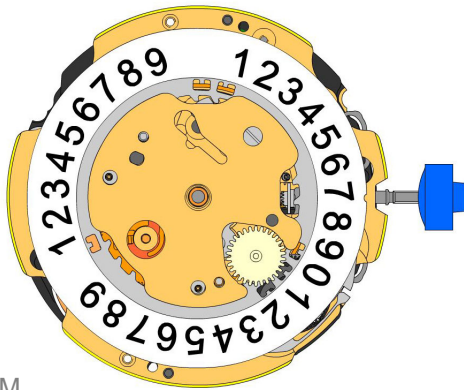
3504.214.AF.1.A  
69.  Units indicator (standard)

3147.054  
70.  Tens intermediate wheel

2130.141  
71.  Date indicator maintaining plate  
Date indicator maintaining plate

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

3504.216.AF.1.A  
73.  Tens indicator (standard)  
Nick of the indicator at 3 o'clock.

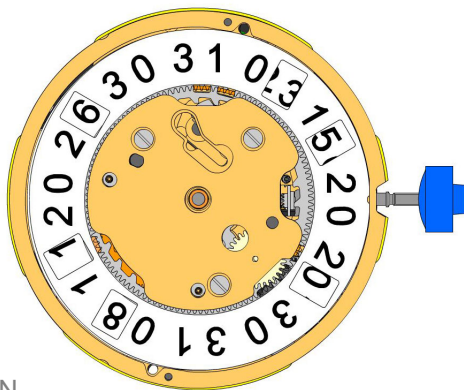


M

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

4000.250  
75.  Screw

3506.072.G  
76.  Dial support



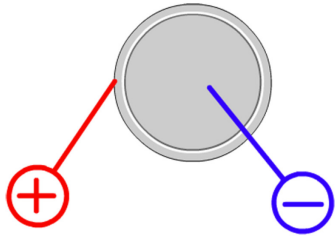
N

8200  
77.  Moebius 8200

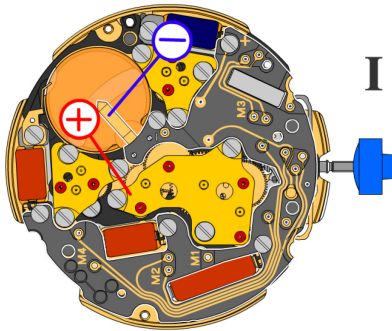
9014  
78.  Moebius 9014

124  
79.  Jismaa 124

9020  
80.  Moebius 9020

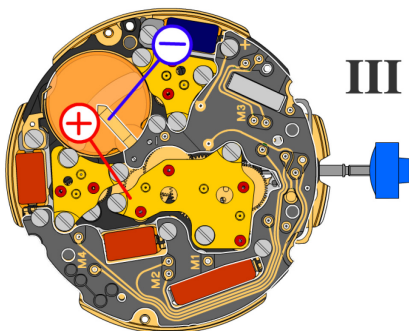


Battery	<b>395</b>
Voltage	<b>1.55 V</b>



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

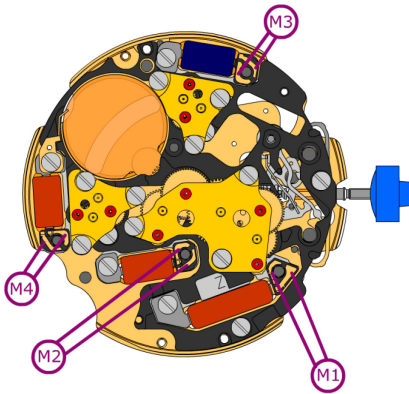
Typical consumption	<b>1.32 <math>\mu</math>A</b>
Maximal consumption	<b>1.65 <math>\mu</math>A</b>
Rate	<b>-10s/M. .. +20s/M.</b>
Lower working voltage limit	<b>1.20 V</b>



*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>



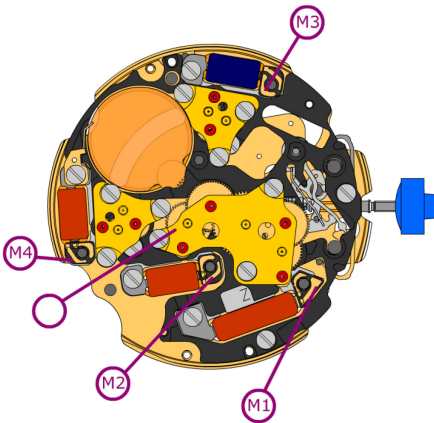


Coil resistance M1 **1.90 k $\Omega$  .. 2.10 k $\Omega$**

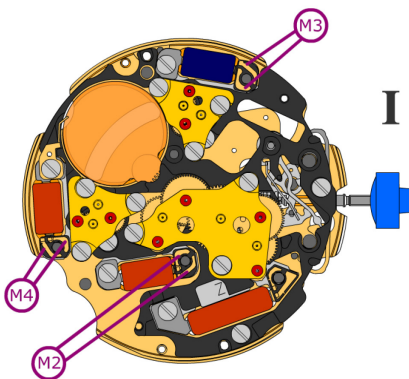
Coil resistance M2 **1.68 k $\Omega$  .. 1.88 k $\Omega$**

Coil resistance M3 **1.68 k $\Omega$  .. 1.88 k $\Omega$**

Coil resistance M4 **1.68 k $\Omega$  .. 1.88 k $\Omega$**

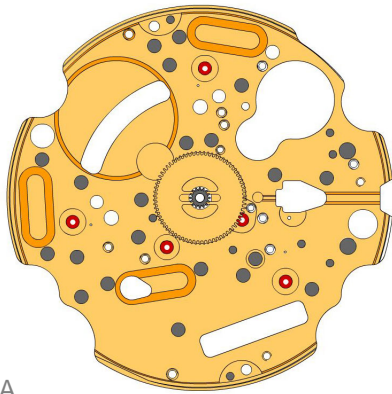


Coil isolation M1/M2/M3/M4  **$\infty$  k $\Omega$**

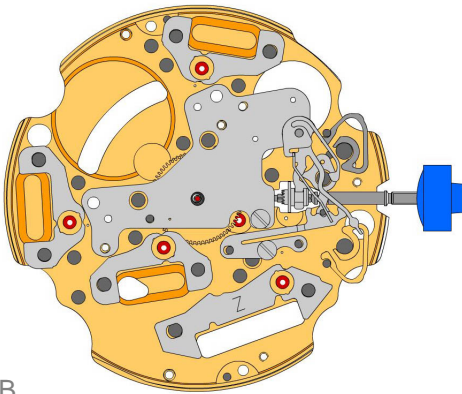


**I**  
*Signal generator (4.9 ms, 8 Hz):*










Lower working voltage limit  
M2/M3/M4 **1.20 V**

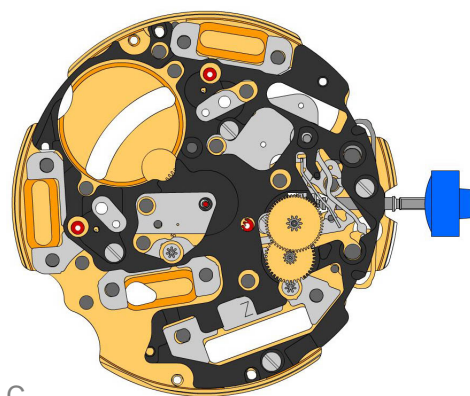


A



B

2000.574.G 1.		Main plate
3305.275.CO 2.		Cannon pinion with driver (Aig.1)
2030.017.CO 3.		Centre bridge Centre bridge held by 1 screw 4000.250. Parts 2030.017.CO, 3402.009.CO, 3004.223 and 3500.59 must be exchanged together.
4000.250 4.		Screw
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.
3622.040 14.		Stator Mark [Z] on stator.
3622.039 15.		Stator (counter 6h, 9h, chrono)
3622.039 16.		Stator (counter 6h, 9h, chrono)
3622.039 17.		Stator (counter 6h, 9h, chrono)


**C**

3603.079  
18.  **Plastic bracket**  
Plastic bracket held by 4 screws 4000.250.

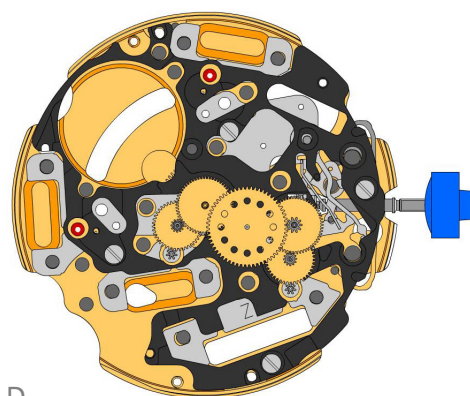
4000.250  
19.  **Screw**


3715.094.RK  
20.  **Rotor**


3715.094.RK  
21.  **Rotor**

3147.046.CO  
22.  **Intermediate wheel**

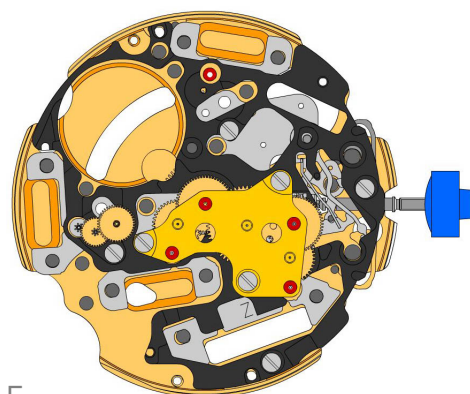
3136.142.CO  
23.  **Second wheel (long)**



**D**

3147.047.CO  
24.  **Intermediate wheel (chrono)**

3136.143.CO  
25.  **Chronograph wheel (Aig.1)**

3122.056.CO  
26.  **Third wheel**


**E**

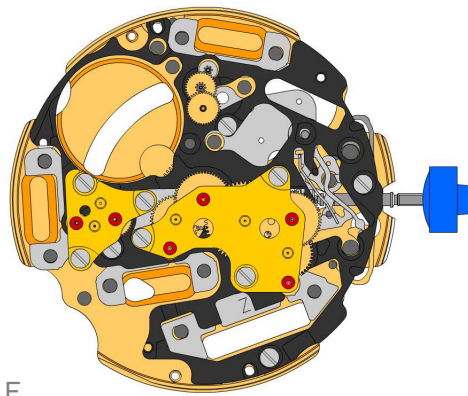
2020.148.G  
27.  **Train wheel bridge**  
Train wheel bridge held by 3 screws 4000.250.






4000.250  
28.  **Screw**

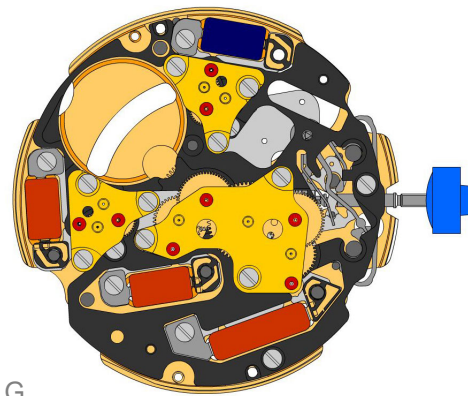
3715.095.RK  
29.  **Rotor**








3147.048.CO  
30.  **Intermediate wheel (counter)**

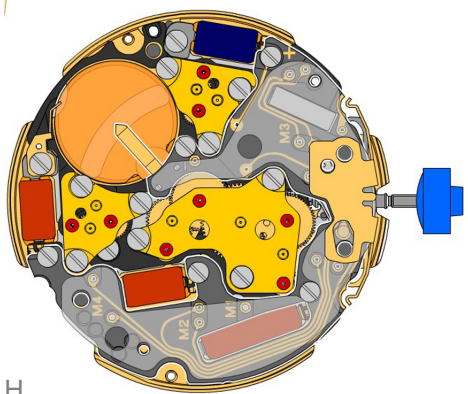
3402.006.CO  
31.  **Minute counting wheel**









**F**

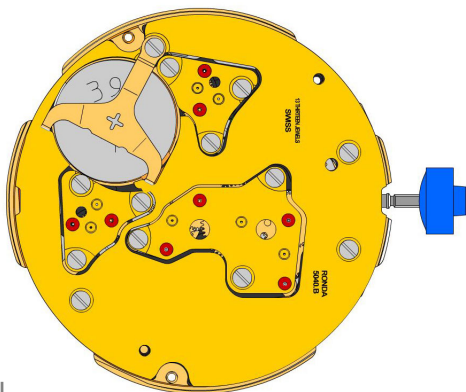
2020.149.G 32.		<b>Counter train wheel bridge</b> Counter train wheel bridge held by 3 screws 4000.250.
4000.250 33.		<b>Screw</b>
3715.095.RK 34.		<b>Rotor</b>
3147.053.CO 35.		<b>Intermediate wheel (counter 1/10sec)</b>
3402.009.CO 36.		<b>Counting wheel 1/10 sec</b> Parts 2030.017.CO, 3402.009.CO, 3004.223 and 3500.59 must be exchanged together.


**G**

2020.149.G 37.		<b>Counter train wheel bridge</b> Counter train wheel bridge held by 3 screws 4000.250.
4000.250 38.		<b>Screw</b>
3621.053.RK 39.		<b>Coil</b> Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.
3621.054.RK 40.		<b>Coil (counter 9h, chrono)</b> Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.
3621.054.RK 41.		<b>Coil (counter 9h, chrono)</b> Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.
3621.055.RK 42.		<b>Coil (counter 6h)</b> Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.
4000.250 43.		<b>Screw</b>


**H**

3601.118 44.		<b>Contact strip</b> Contact strip held by 1 screw 4000.250.
4000.250 45.		<b>Screw</b>
3603.034 46.		<b>Battery insulator</b>
3612.144.5040 47.		<b>Electronic module</b> Electronic module held by 5 screws 4000.248. Electronic measurements may be realised now.
4000.248 48.		<b>Screw</b>
3603.069 49.		<b>Circuit insulator</b>
3601.107.G 50.		<b>Pusher contact spring</b>

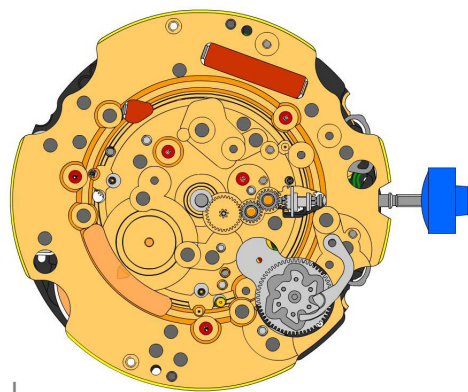
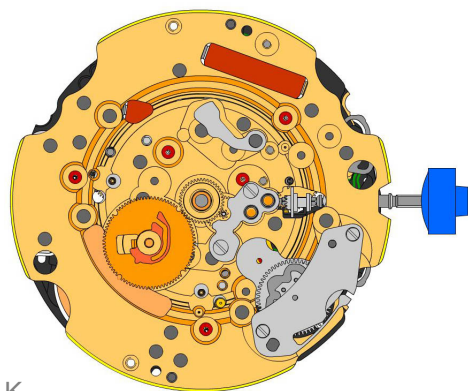
















2130.137.G.M01.5040B  
51.  **Electronic module cover**  
Electronic module cover held by 3 screws 4000.250.

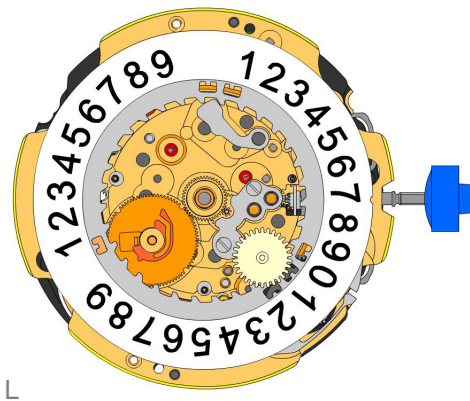
3600.010.HGF  
52.  **Battery 395**

3601.109.G  
53.  **Bridge +**  
Bridge held by 1 screw 4000.250.


4000.250  
54.  **Screw**



**J**

**K**

2000.574.G 55.		Main plate
3004.164 56.		Setting wheel
3004.164 57.		Setting wheel
3007.054.CO 58.		Minute wheel
2130.143 59.		Minute train bridge Minute train bridge held by 2 screws 4000.305.
4000.305 60.		Screw
3004.223 61.		Tens indicator driving wheel Parts 2030.017.CO, 3402.009.CO, 3004.223 and 3500.59 must be exchanged together. The short tooth of the tens indicator driving wheel must point to the center of the movement.
3500.075 62.		Tens jumper Parts 2030.017.CO, 3402.009.CO, 3004.223 and 3500.59 must be exchanged together.
2130.142 63.		Tens jumper maintaining plate Tensioning the spring arm. Tens jumper maintaining plate held by 2 screws 4000.306.
4010.306 64.		Screw
3301.241 65.		Hour wheel (Fig.1)
3315.016 66.		Friction spring
3004.224.CO 67.		Date indicator driving wheel
3500.049 68.		Date jumper





L

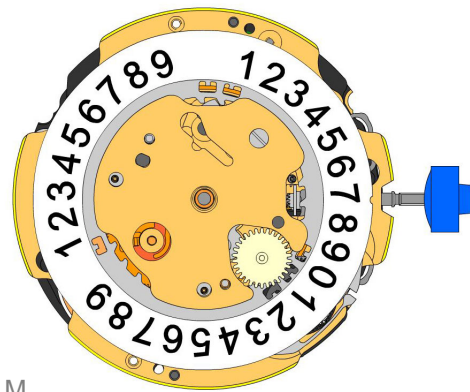
3504.214.AF.1.A  
69.  Units indicator (standard)

3147.054  
70.  Tens intermediate wheel

2130.141  
71.  Date indicator maintaining plate  
Date indicator maintaining plate

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

3504.216.AF.1.A  
73.  Tens indicator (standard)  
Nick of the indicator at 3 o'clock.

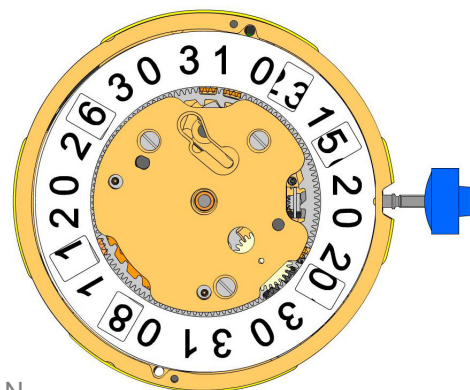


M

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

4000.250  
75.  Screw

3506.072.G  
76.  Dial support



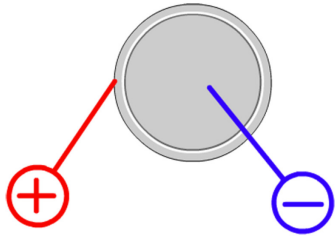
N

8200  
77.  Moebius 8200

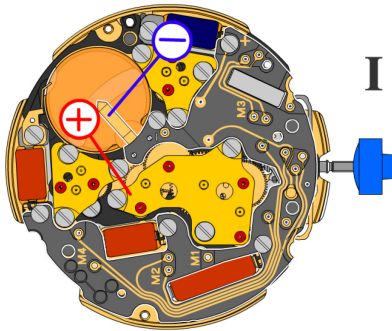
9014  
78.  Moebius 9014

124  
79.  Jismaa 124

9020  
80.  Moebius 9020

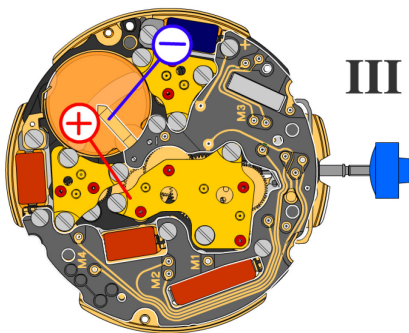


Battery	<b>395</b>
Voltage	<b>1.55 V</b>



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

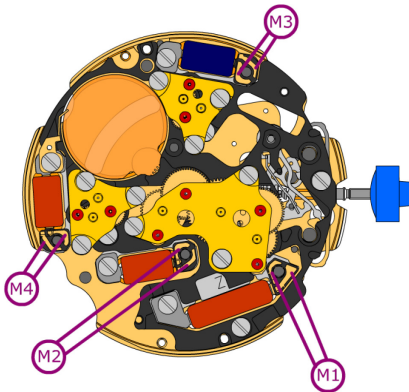
Typical consumption	<b>1.32 <math>\mu</math>A</b>
Maximal consumption	<b>1.65 <math>\mu</math>A</b>
Rate	<b>-10s/M. .. +20s/M.</b>
Lower working voltage limit	<b>1.20 V</b>



*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>



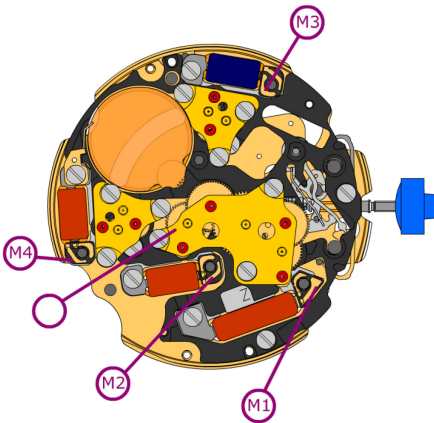


Coil resistance M1 **1.90 kΩ .. 2.10 kΩ**

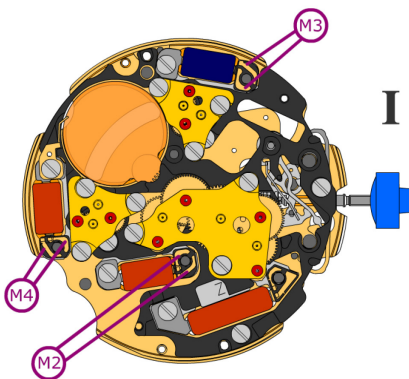
Coil resistance M2 **1.68 kΩ .. 1.88 kΩ**

Coil resistance M3 **1.68 kΩ .. 1.88 kΩ**

Coil resistance M4 **1.68 kΩ .. 1.88 kΩ**



Coil isolation M1/M2/M3/M4 **∞ kΩ**



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

Lower working voltage limit  
M2/M3/M4 **1.20 V**