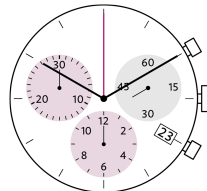
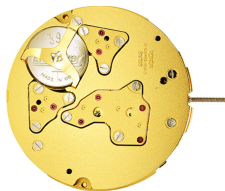


## Caliber 5030.D – 12½"



### Product Specifications

Analog quartz movement

Line startech

Caliber 5030.D

Size 12½"

Version Swiss Made 13 Jewels / gold plated

Version Swiss Parts 6 Jewels / nickel plated

Standard battery life 54 months

Standard hand fitting height 1

### Features

- Repairable metal watch movement
- Power saving mechanism with pulled out stem:  
Reduction of consumption approximately 70%
- Very easy handling by two pushers

### Functions

- 30 minute counter
- Center stop second (1/1 sec)
- 12 hour counter
- ADD and SPLIT functions
- Chronograph
- Small second
- Date

# Quartz Movements

## Chronographs

### RONDA startech

## Caliber 5030.D – 12½"

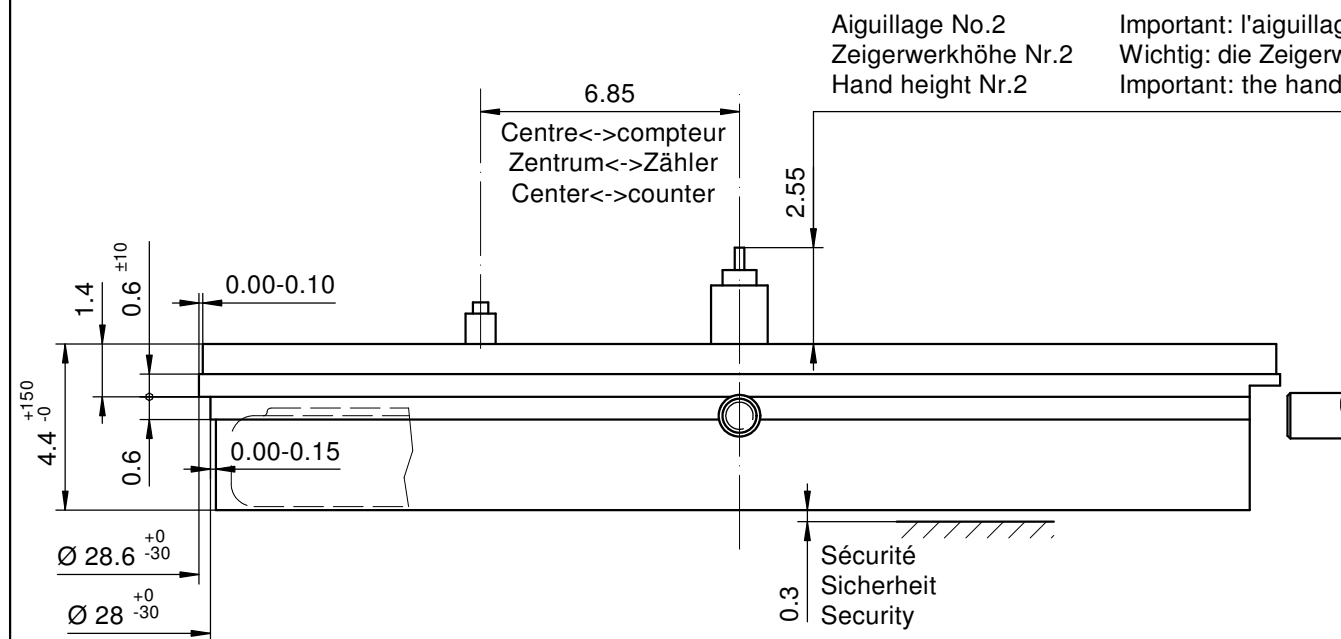
### Technical Specifications

Diameter Total	28.60 mm
Case fitting	28.00 mm
Movement height	4.40 mm
Height over standard battery	4.40 mm
Movement rest	0.60 mm
Height over stem	1.90 mm
Length of stem travel	0.90 mm
Stem thread	0.90 mm
Useful torque second – typical	6 µNm
Useful torque minute – typical	300 µNm
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



### Battery Specifications

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



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

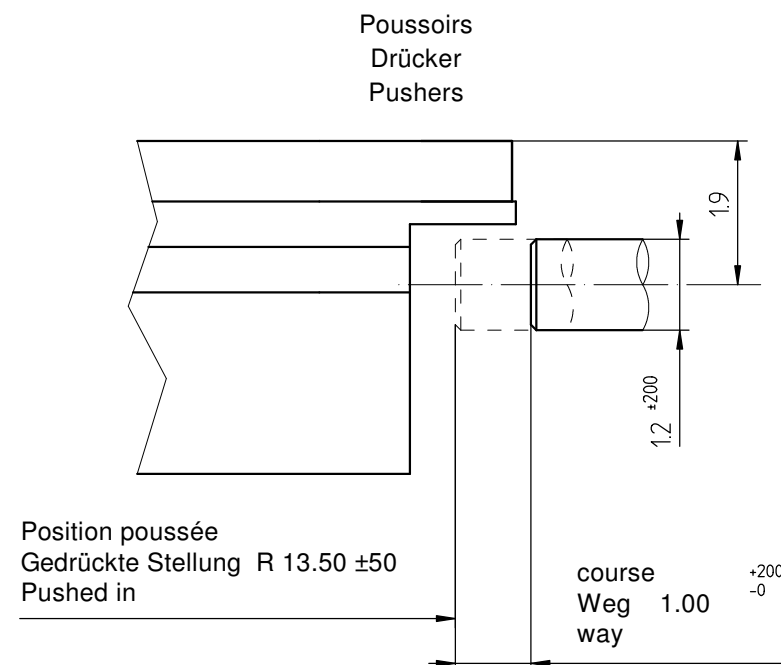
Sécurité entre l'aiguille des secondes et le verre:  
Sicherheit zwischen Sekundenzeiger und Glas: 0.30mm  
Security between second hand and glass:

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

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

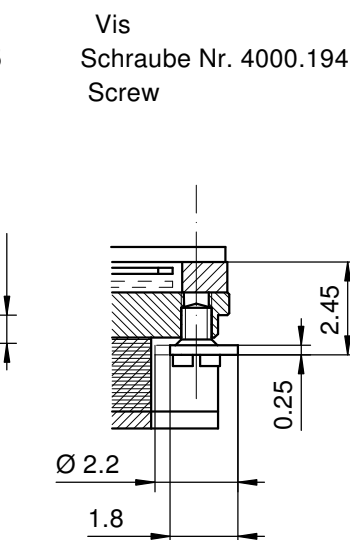
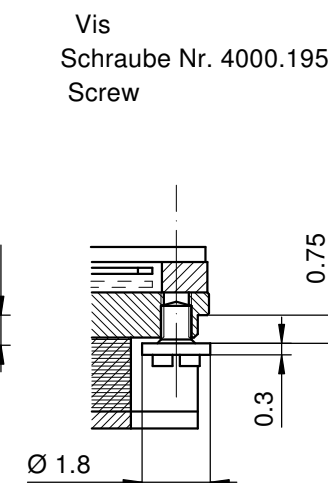
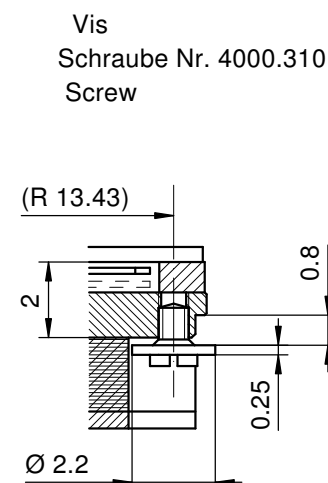
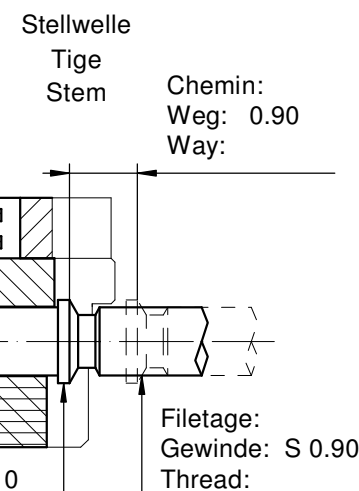
Die Weglänge des Drückers ist im Drücker selbst zu begrenzen. In der gedrückten Stellung ist seine Position zu kontrollieren

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



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

Pile  
Batterie (395) Ø 9.50 x 2.60mm  
Battery



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



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

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

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

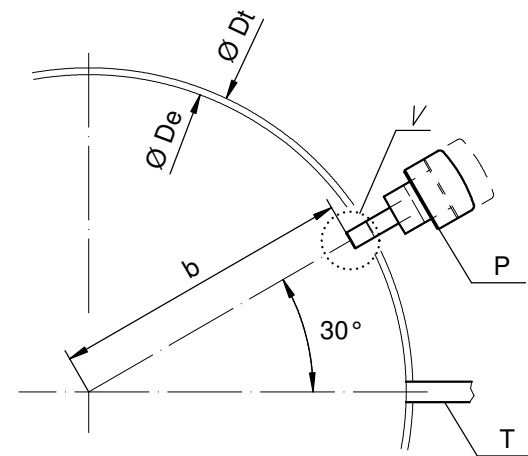
Cage  
Uhrwerkgestell 12½"  
Frame

RONDA

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

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

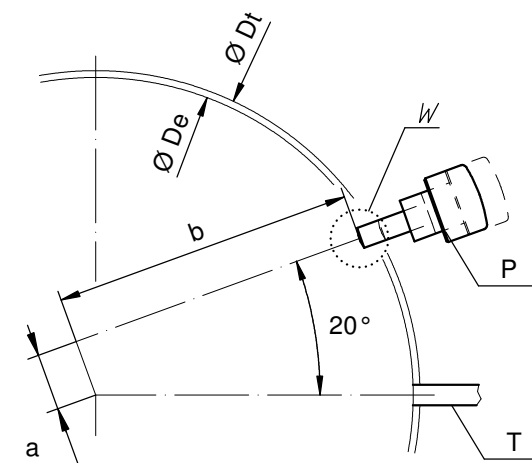
Angle Winkel Angle	30°	
Ø Dp	b	
1.00	13.50	
1.10	13.50	
1.20	13.50	
1.30	13.50	
1.40	13.50	



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

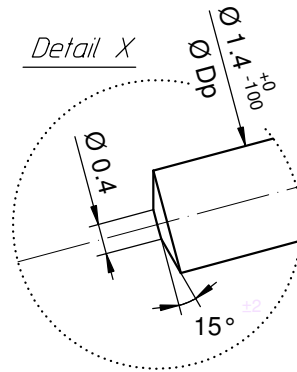
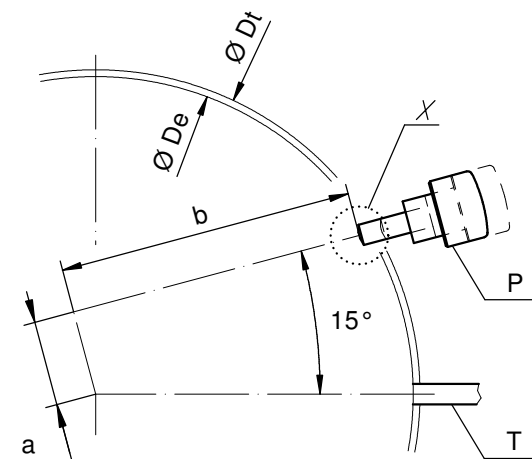
Ø Dp: diamètre du poussoir  
Drückerdurchmesser  
pusher-diameter

Ø Dt: diamètre total  
Totaldurchmesser  
total-diameter

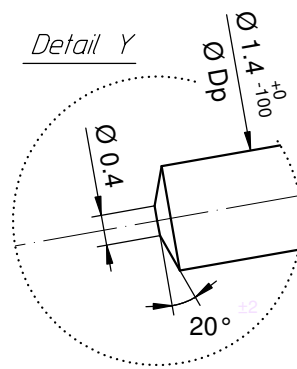
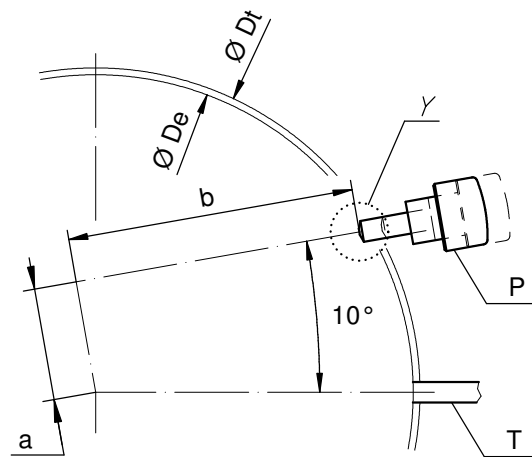
P: poussoir en position poussée  
Drücker in gedrückter Stellung  
pusher in pressed position

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

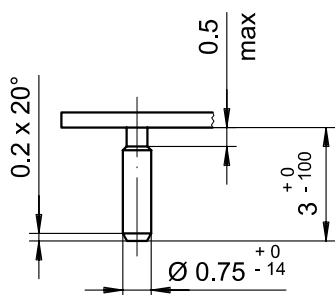
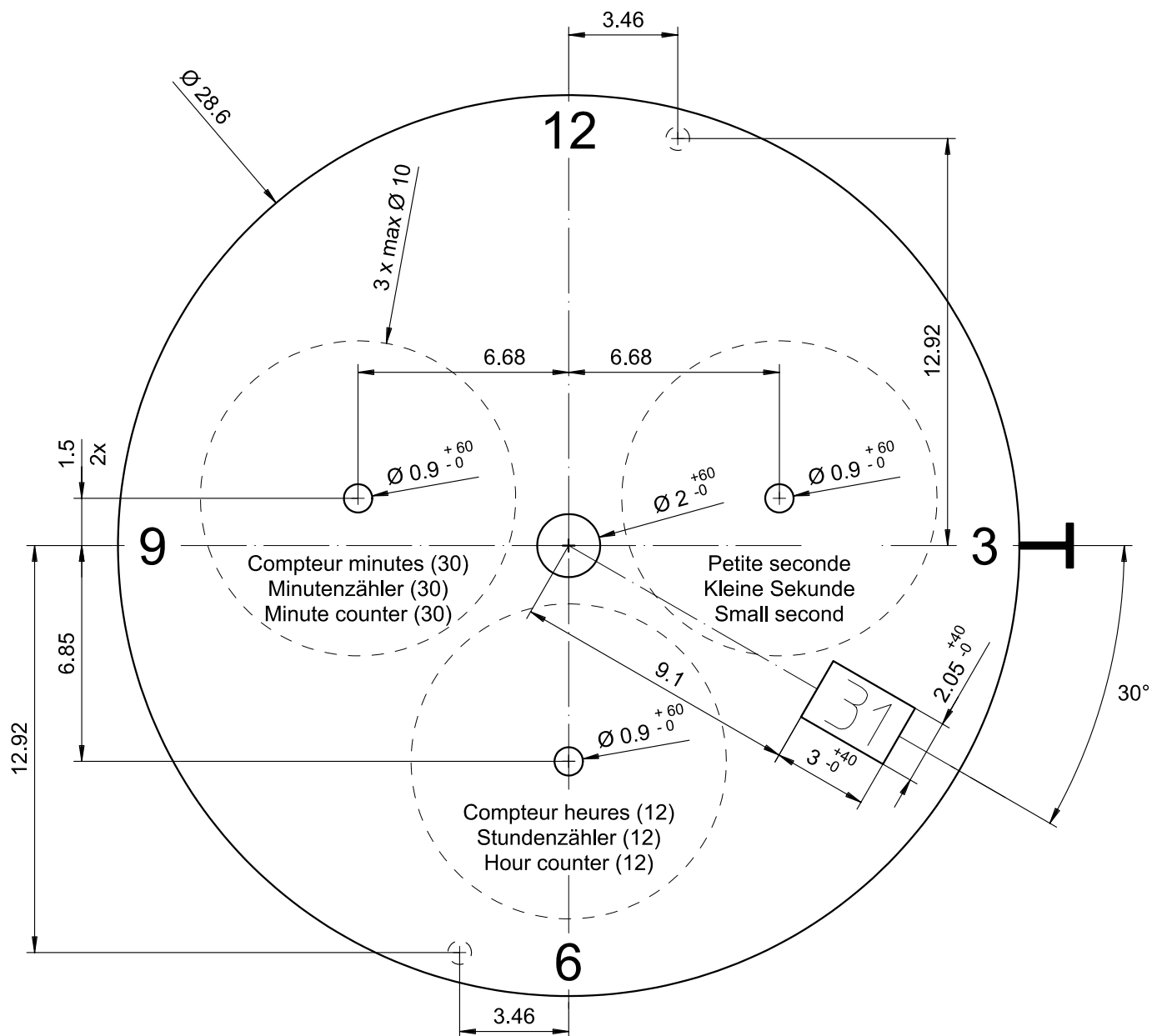


Angle des poussoirs A et B  
Winkel der Drücker A und B  
Angle of pusher A and B

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 Äenderungen 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
3H	4H

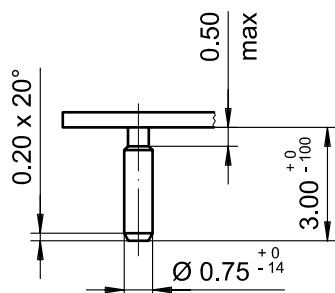
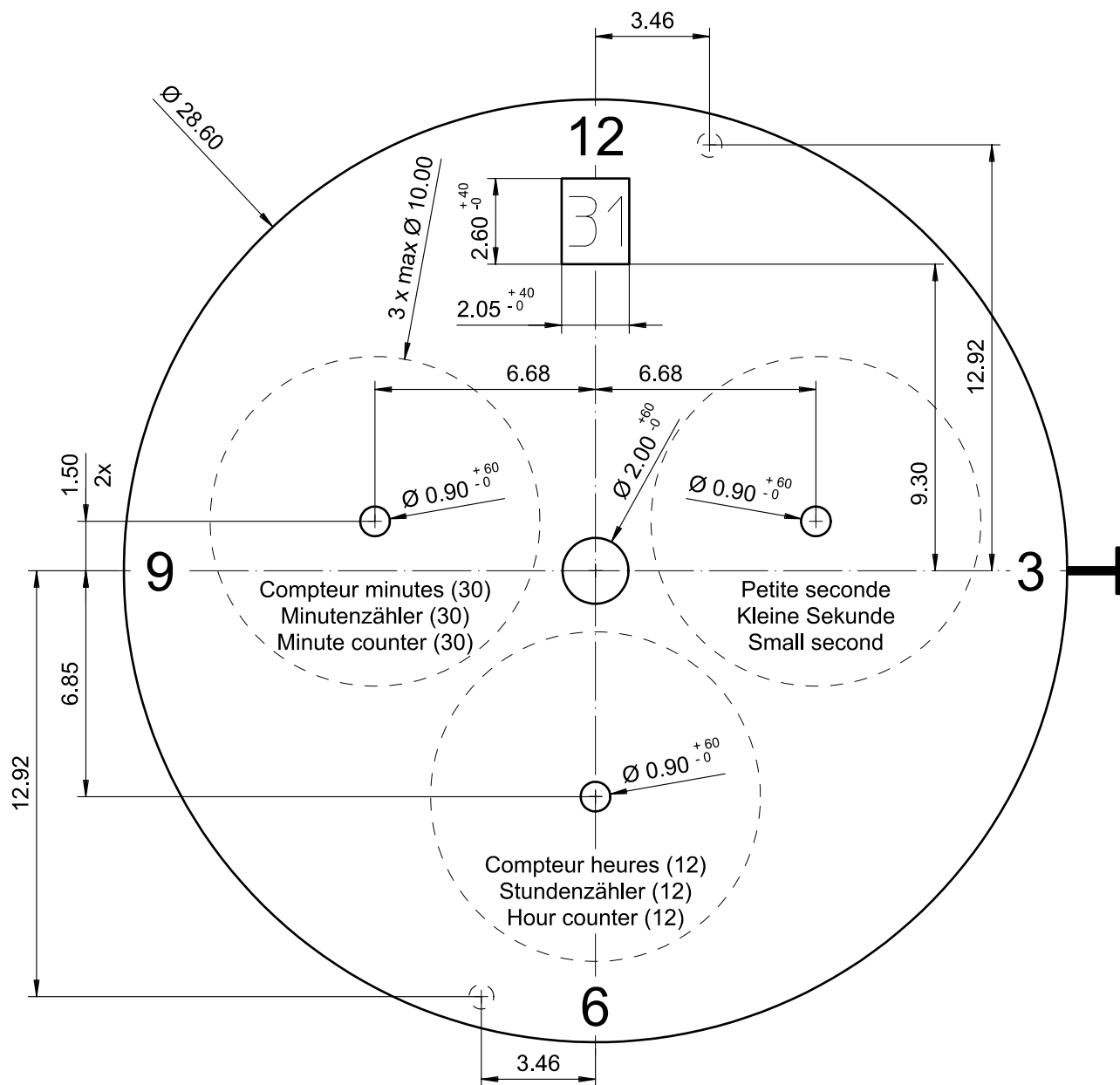
Cadran  
Zifferblatt  
Dial

12 1/2"

Issued	13 Dez 2006	cw
Modified	15.Dez.2006 ÄÄ ----	cm
Released	YES	
Tolerance	+/- 20 µm	
Scale	5 : 1 (A4V)	
Sous réserve de modifications Äenderungen vorbehalten Modifications reserved		
No.	5010.652	03

RONDA

5030.D



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

Tige	Date
Stellw.	Datum
Stem	Date
3H	12H

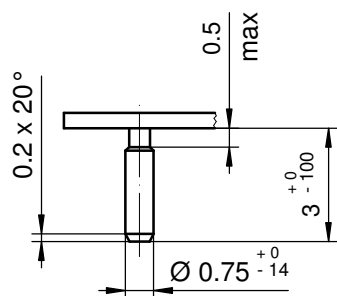
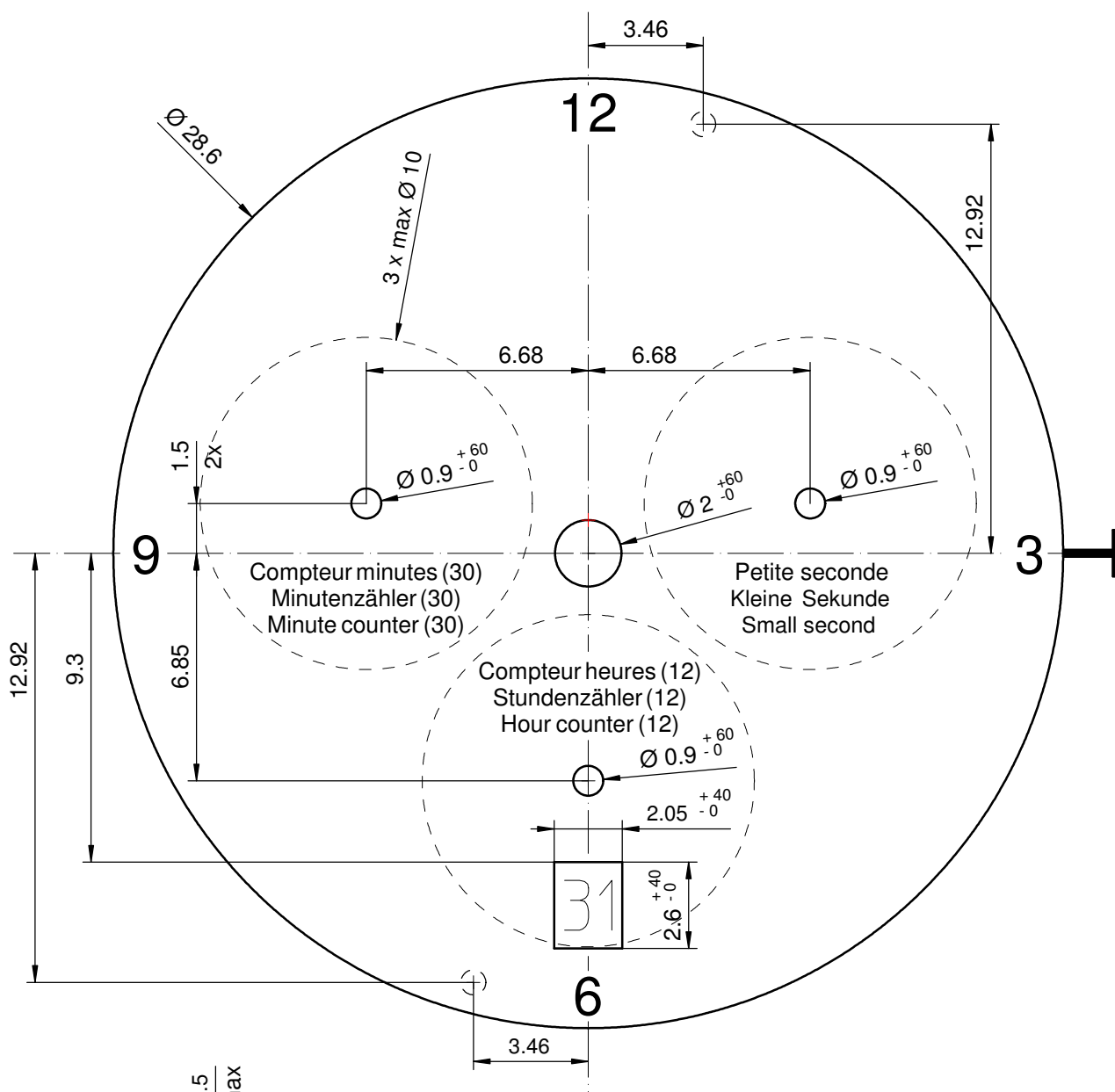
Cadran  
Zifferblatt  
Dial

12 1/2"

Issued	13 Dez 2006	cw
Modified	15.Dez.2006 ÄA ----	cw
Released	YES	
Tolerance	+/- 20 µm	
Scale	5 : 1 (A4V)	
Sous réserve de modifications Äenderungen vorbehalten Modifications reserved		
No.	5010.658	02

RONDA

5030.D



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

Tige	Date
Stellw.	Datum
Stem	Date
3H	6H

Cadran  
Zifferblatt  
Dial

12 1/2"

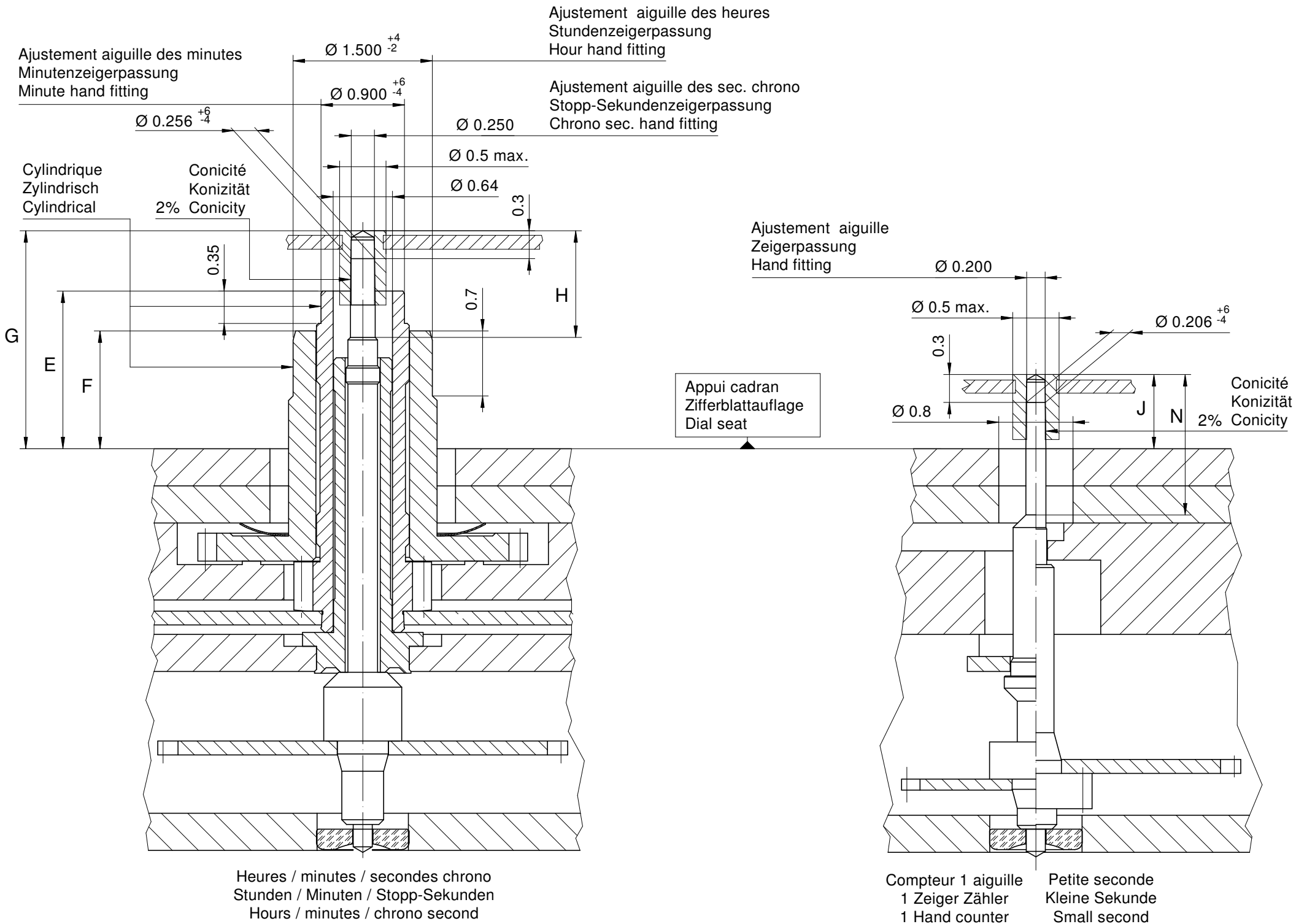
Date	20 Jun 2007	mK
Checked		
Tolerance	+/- 20 µm	
Scale	5 : 1 (A4V)	

RONDA

5030.D

Sous réserve de modifications  
Änderungenvorbehalten  
Modifications reserved

No. 5010.661 00



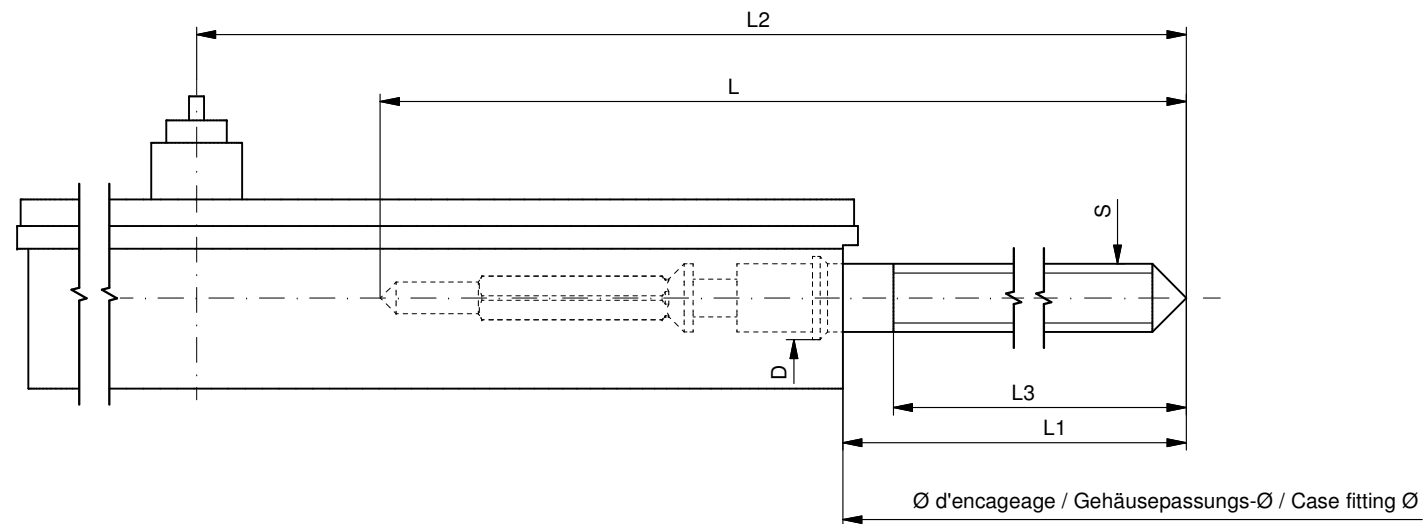
Aiguillages Zeigerwerkhöhe Hand fitting height							
Dépassement Höhe über Zifferblattauf­lage Height over dial seat							
No	Pignon des secondes chrono Stopp-Sekundentrieb Chrono second pinion	Chaussée Minutenrohr Cannon-pinion	Roue des heures Stundenrad Hour wheel			Petite seconde Kleine Sekunde Small second	1 aig. 1 Zeiger 1 Hand
	G	E	F	H	N	J	J
1	2.35	1.70	1.27	1.15	1.50	0.80	0.80
-							

Aiguillages Zeigerwerkhöhe Hand fitting height						
Peinture comprise / inkl. Farbe / Paint included						
Epaisseur maximum du cadran Maximale Zifferblatt­dicke Maximum dial thickness						
No	Sous l'aiguille des 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
-						

		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	0.03	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

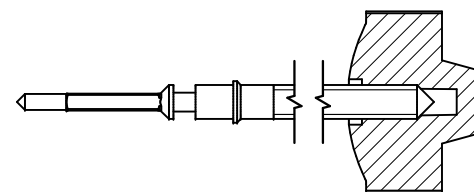
Aiguillages Zeigerwerkhöhen 12½" Hand fitting heights		Issued	07 Juli 2009	ps
		Modified	15 Okt 2014 ÄA 13275	dh
		Released	Yes	
		Tolerance	µm	
		Scale	20 : 1 (A3H)	
RONDA	5030.D	Sous réserve de modifications Änderungen vorbehalten Modifications reserved		
		No.	3316.132	02

\* En cas de données différentes, veuillez contacter le service après-vente      \* Bei abweichenden Werten, bitte technischen Kundendienst anfragen      \* In case of different values, please contact the customer service



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

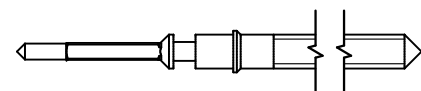
No. d'article Artikelnummer Part number	L	L1	L2	L3	S	D
3000.177.CO	20.00	10.23	24.23	10.15	0.90	1.10



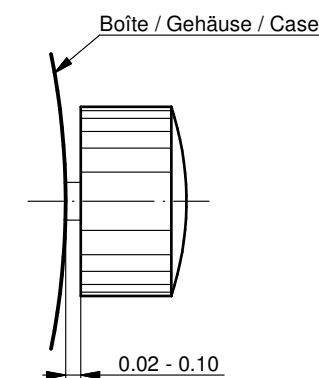
Couleur de la couronne Kronenfarbe Crown color	bleu foncé dunkelblau dark blue
Code	UN 5002

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

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



Couronne normale  
Normale Krone  
Normal crown

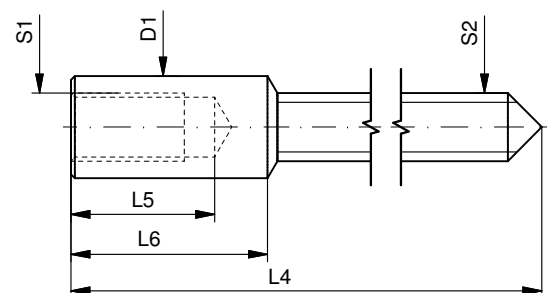


Couronne vissée  
Geschraubte Krone  
Screwed crown

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

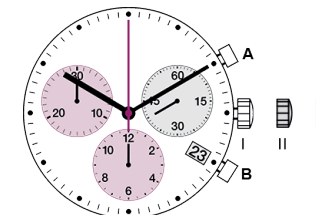
- Crown in position III
- Wind crown forwards, until date changes
- Remove working stem
- Fit dial
- Point all hands towards 12 o'clock
- Set time
- Zero chronograph hand\*
- Crown in position II
- Set date
- Crown in position I

## Date switching duration:

~1¼hrs

## \*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**

**Display elements**

- Second hand
- Minute hand
- Hour hand
- Second counter
- Minute counter
- Hour counter (only 5030.D)
- Date 5021.B
- Date 5030.D

**Control buttons**

- Push button A
- Crown
- Push button B

**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: **1h / 20min / 38 sec.**
- Zero positioning:** Press push-button B. (The chronograph hands will be reset to their zero positions.)

**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.

**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, ...).

**Setting the date (quick mode)**

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

**Please note:**  
During the date changing phase between approx. 9 PM and midnight the date must be set to the date of the following day.

**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 2, further intervals or intermediates can be displayed by pressing push-button B (display interval / make up measured time, ...).

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

Example:  
– Date / time on the watch: 17 / 1:25 AM  
– Present date / time: 4 / 8:30 PM

- Pull out the crown to position II (the watch continues to run).
- Turn the crown until yesterday's date appears 3.
- \* Pull out the crown to position III (the watch stops).
- Turn the crown until the correct date 4 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.

**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 rotates by 360° → corrective mode is activated).

**Adjusting the second counter hand**  
Single step A 1 x short  
Continuous A long

**Adjusting the next hand B**

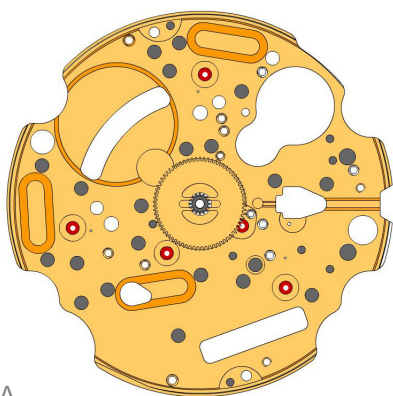
**Adjusting the hour counter hand at 5030.D (position 6h)**  
Single step A 1 x short  
Continuous A long

**Adjusting the next hand B**

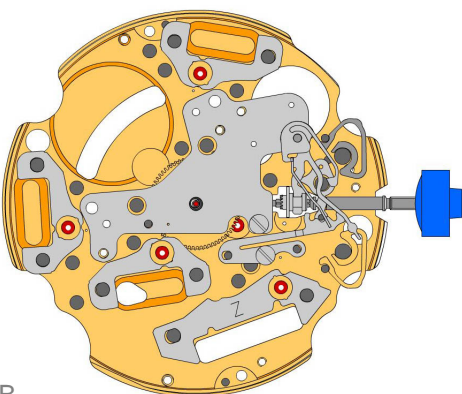
**Adjusting the minute counter hand (position 9h)**  
Single step A 1 x short  
Continuous A long

**Returning the crown to position I**  
Termination of the chronograph hands adjustment (can be carried out at any time).




















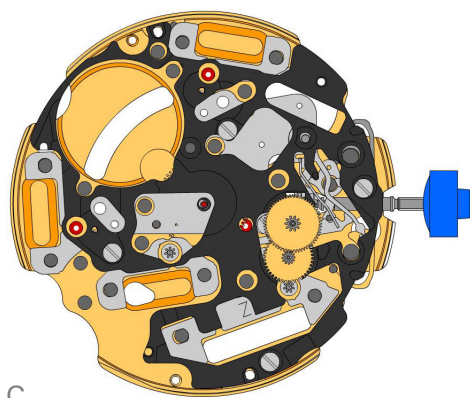


A



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.
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 and chrono)
3622.039 16.		Stator (counter 6h, 9h and chrono)
3622.039 17.		Stator (counter 6h, 9h and chrono)



C


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

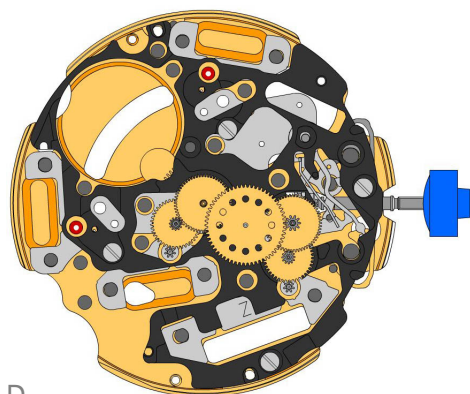
4000.250  
19.  Screw

3715.094.RK  
20.  Rotor


3715.094.RK  
21.  Rotor


3147.046.CO  
22.  Intermediate wheel

3136.142.CO  
23.  Second wheel (long)

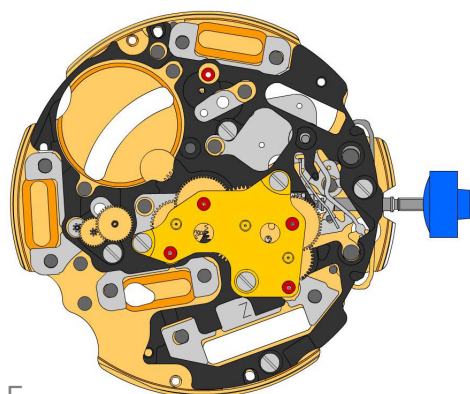


D


3147.047.CO  
24.  Intermediate wheel (chrono)

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

3122.056.CO  
26.  Third wheel



E

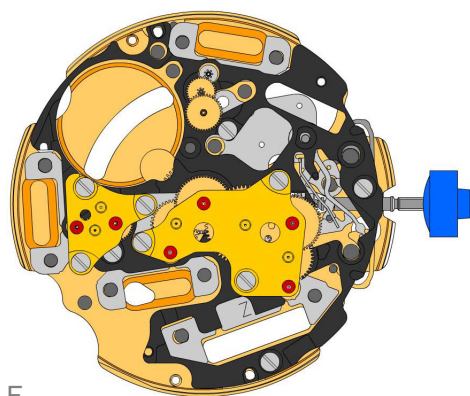
2020.148.G  
27.  Train wheel bridge  
Train wheel bridge held by 3 screws 4000.250.

4000.250  
28.  Screw


3715.095.RK  
29.  Rotor

3147.048.CO  
30.  Intermediate wheel (counter)

3402.006.CO  
31.  Minute counting wheel



F

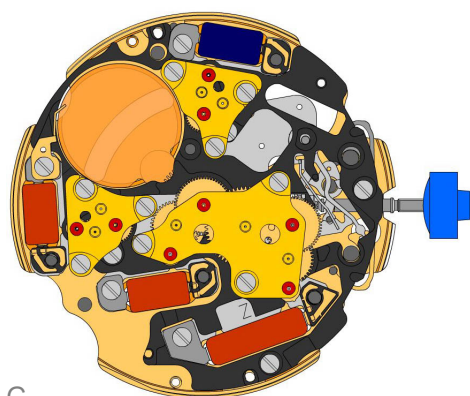
2020.149.G  
32.  Counter train wheel bridge  
Counter train wheel bridge held by 3 screws 4000.250.

4000.250  
33.  Screw


3715.095.RK  
34.  Rotor

3147.048.CO  
35.  Intermediate wheel (counter 12h)


3402.006.CO  
36.  Minute counting wheel





G


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

4000.250  
38.  Screw

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

3621.054.RK  
40.  Coil (counter 9h, chrono)  
Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.

3621.054.RK  
41.  Coil (counter 9h, chrono)  
Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.

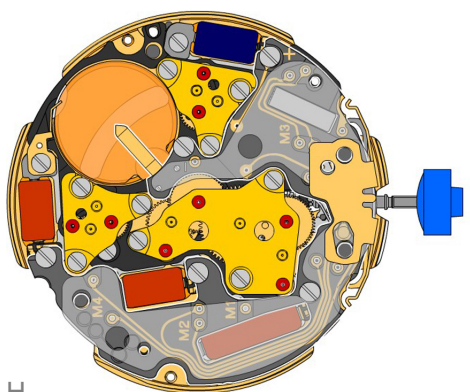
3621.055.RK  
42.  Coil (counter 6h)  
Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.

4000.250  
43.  Screw


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

4000.250  
45.  Screw

3603.034  
46.  Battery insulator



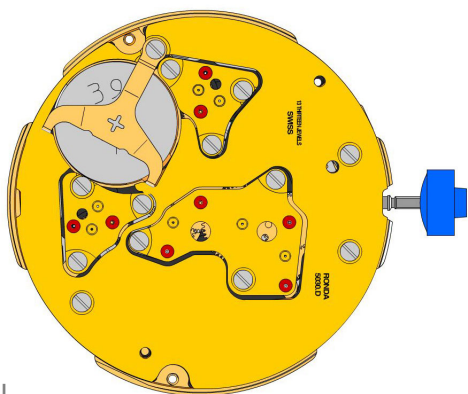
H

3612.144.5030  
47.  Electronic module  
Electronic module held by 5 screws 4000.248. Electronic measurements may be realised now. Parts 3612.144.5030, 3715.095.RK and 3147.048.CO must be exchanged together.

4000.248  
48.  Screw

3603.069  
49.  Circuit insulator

3601.107.G  
50.  Pusher contact spring

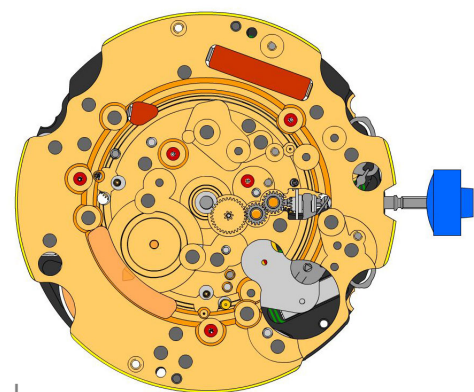


2130.137.G.M01.5030D  
51.  **Electronic module cover**  
Electronic module cover held by 3 screws 4000.250.

3600.010.HGF  
52.  **Battery 395**

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

4000.250  
54.  **Screw**



J

2000.574.G  
55.



Main plate

3004.164  
56.



Setting wheel

3004.164  
57.

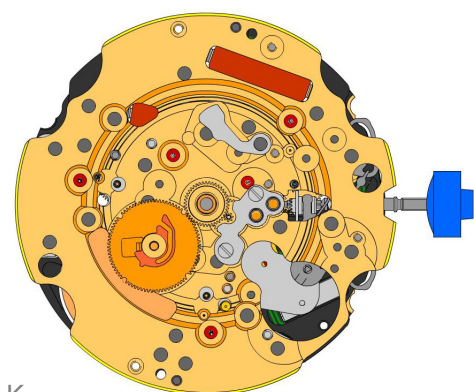


Setting wheel

3007.054.CO  
58.



Minute wheel



K

2130.143  
59.



Minute train bridge

Minute train bridge held by 2 screws 4000.305.

4000.305  
60.



Screw

3301.241  
61.



Hour wheel (Aig.1)

3315.016  
62.



Friction spring

3004.224.CO  
63.

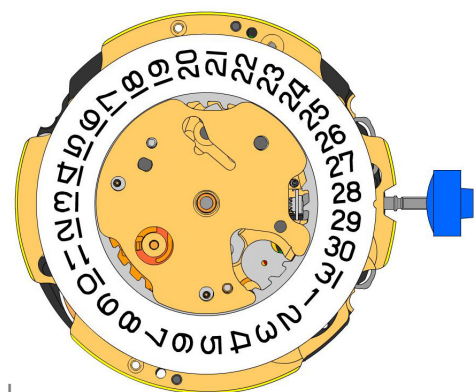


Date indicator driving wheel

3500.049  
64.



Date jumper



L

3504.208.AB.1.A  
65.



Date indicator (standard)

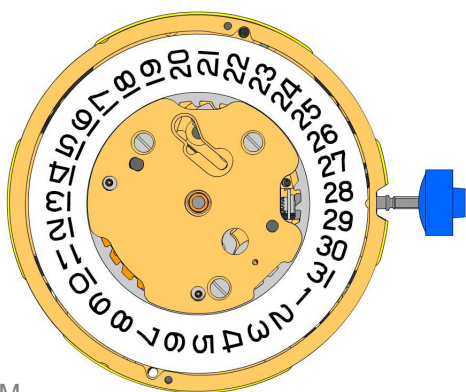
Nick of the indicator at 3 o'clock.

2130.141  
66.











Date indicator maintaining plate

Date indicator maintaining plate held by 1 screw 4000.250.



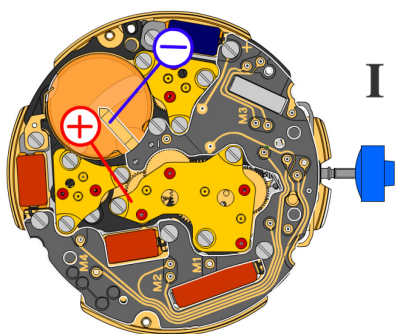
M

3905.070 67.		<b>Date jumper spring</b> Insert the date jumper spring in the provided opening.
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>



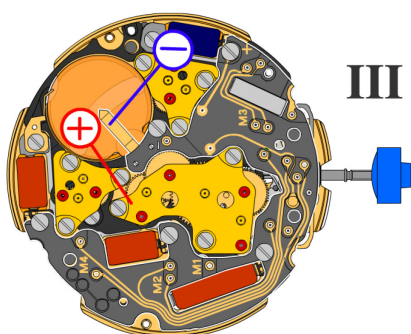


Battery	<b>395</b>
Voltage	<b>1.55 V</b>



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

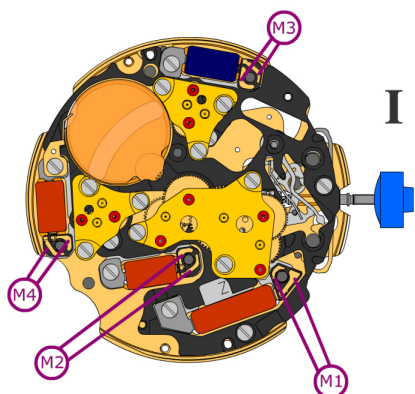
Typical consumption	<b>1.32 <math>\mu</math>A</b>
Maximal consumption	<b>1.65 <math>\mu</math>A</b>
Rate	<b>-10s/M. .. +20s/M.</b>
Lower working voltage limit	<b>1.20 V</b>



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

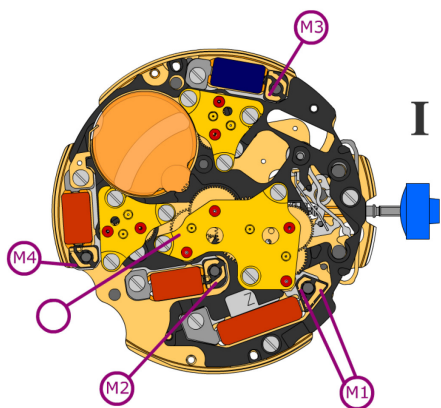
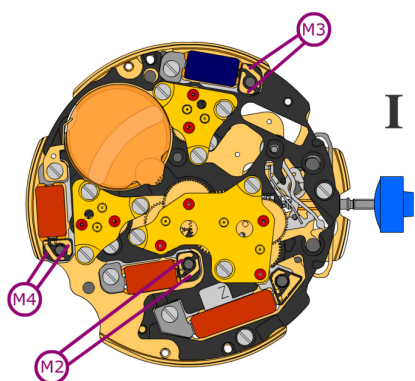
Typical consumption	<b>0.10 <math>\mu</math>A</b>
Maximal consumption	<b>0.30 <math>\mu</math>A</b>



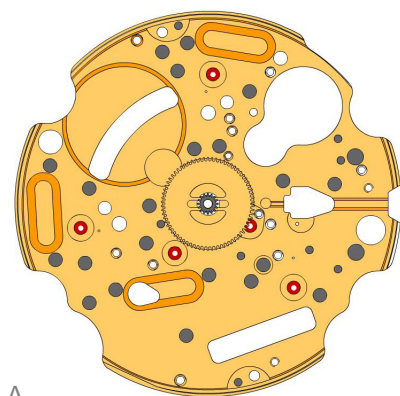

Coil resistance M1 **1.90 k $\Omega$  .. 2.10 k $\Omega$** 

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

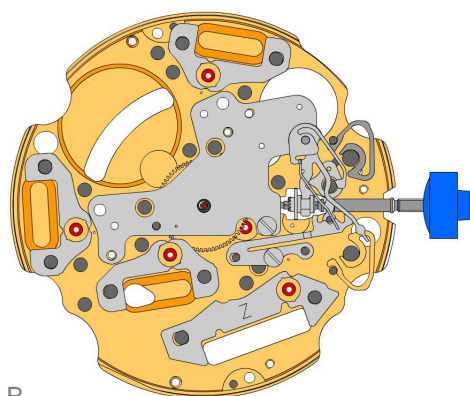
Coil resistance M3 **1.68 k $\Omega$  .. 1.88 k $\Omega$** 

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

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

*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.

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 and chrono)

3622.039

16.



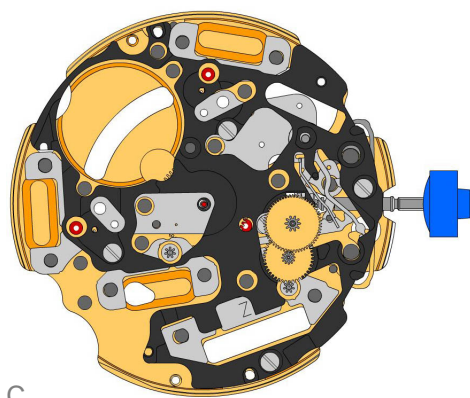
Stator (counter 6h, 9h and chrono)

3622.039

17.



Stator (counter 6h, 9h and chrono)



C


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

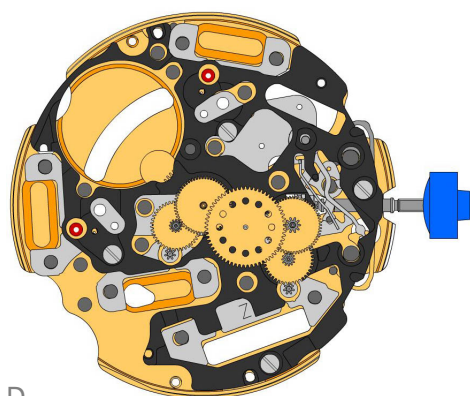
4000.250  
19.  Screw

3715.094.RK  
20.  Rotor


3715.094.RK  
21.  Rotor


3147.046.CO  
22.  Intermediate wheel

3136.142.CO  
23.  Second wheel (long)

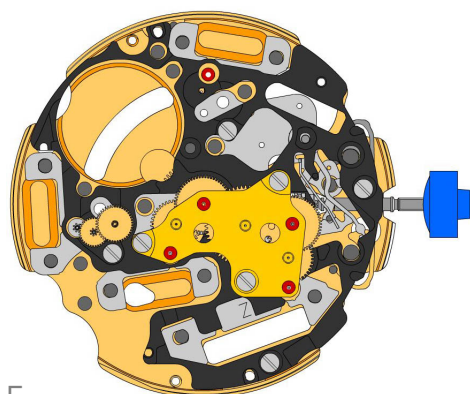


D


3147.047.CO  
24.  Intermediate wheel (chrono)

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

3122.056.CO  
26.  Third wheel




E

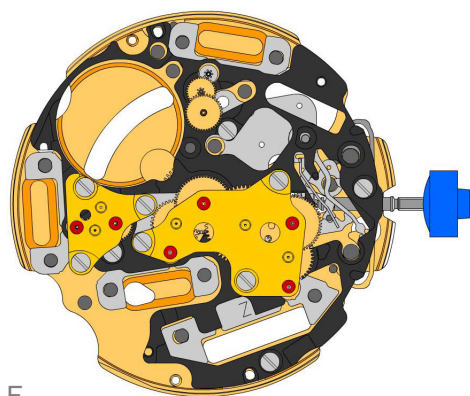
2020.148.G  
27.  Train wheel bridge  
Train wheel bridge held by 3 screws 4000.250.

4000.250  
28.  Screw


3715.095.RK  
29.  Rotor

3147.048.CO  
30.  Intermediate wheel (counter)

3402.006.CO  
31.  Minute counting wheel




F

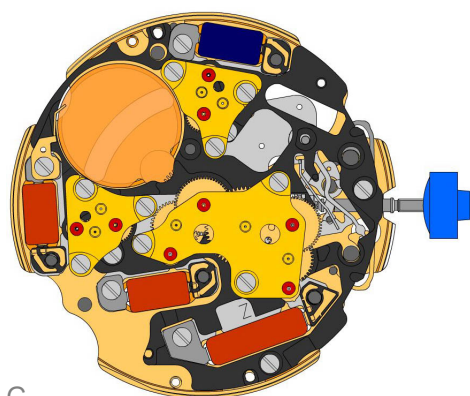
2020.149.G  
32.  Counter train wheel bridge  
Counter train wheel bridge held by 3 screws 4000.250.

4000.250  
33.  Screw


3715.104.RK  
34.  Rotor

3147.059.CO  
35.  Intermediate wheel (counter 12h)


3402.006.CO  
36.  Minute counting wheel





G


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

4000.250  
38.  Screw

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

3621.054.RK  
40.  Coil (counter 9h, chrono)  
Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.

3621.054.RK  
41.  Coil (counter 9h, chrono)  
Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.

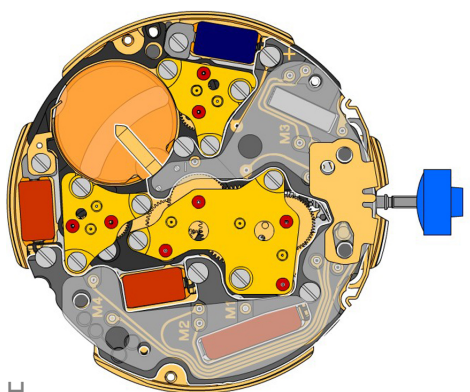
3621.055.RK  
42.  Coil (counter 6h)  
Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.

4000.250  
43.  Screw


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

4000.250  
45.  Screw

3603.034  
46.  Battery insulator



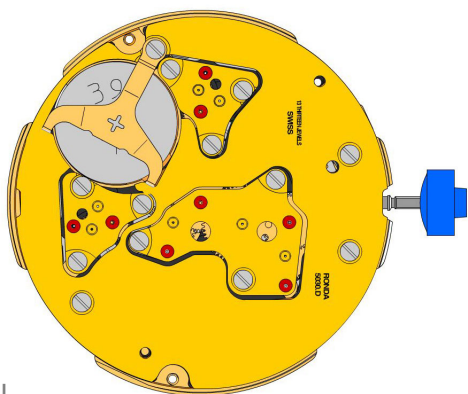
H

3612.210.5030  
47.  Electronic module  
Electronic module held by 5 screws 4000.248. Electronic measurements may be realised now.

4000.248  
48.  Screw

3603.069  
49.  Circuit insulator

3601.107.G  
50.  Pusher contact spring



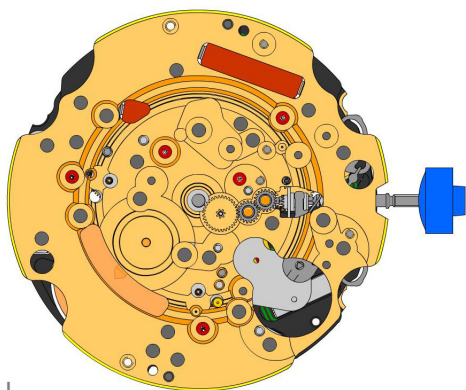
2130.137.G.M01.5030D  
51.  Electronic module cover  
Electronic module cover held by 3 screws 4000.250.

3600.010.HGF  
52.  Battery 395





3601.109.G  
53.  Bridle +  
Bridle held by 1 screw 4000.250.

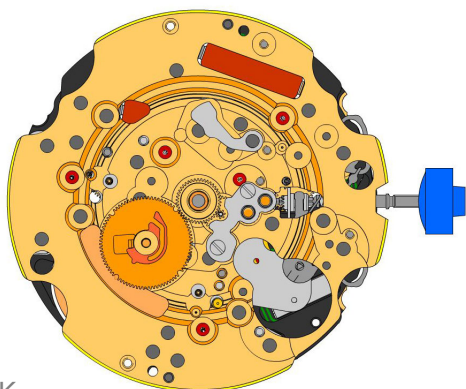
4000.250  
54.  Screw











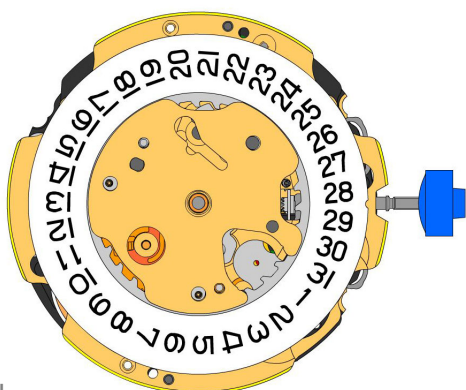
J

2000.574.G 55.		Main plate
3004.164 56.		Setting wheel
3004.164 57.		Setting wheel
3007.054.CO 58.		Minute wheel





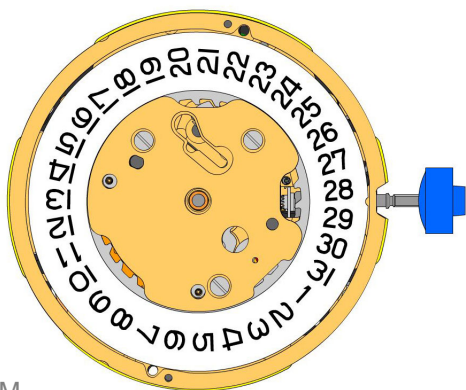
K

2130.143 59.		Minute train bridge Minute train bridge held by 2 screws 4000.305.
4000.305 60.		Screw
3301.241 61.		Hour wheel (Aig.1)
3315.016 62.		Friction spring
3004.224.CO 63.		Date indicator driving wheel
3500.049 64.		Date jumper











L

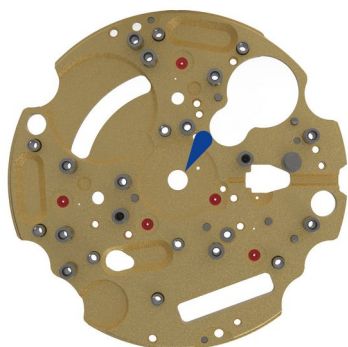
3504.208.AB.1.A 65.		Date indicator (standard) Nick of the indicator at 3 o'clock.
2130.141 66.		Date indicator maintaining plate Date indicator maintaining plate held by 1 screw 4000.250.

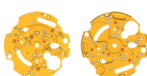



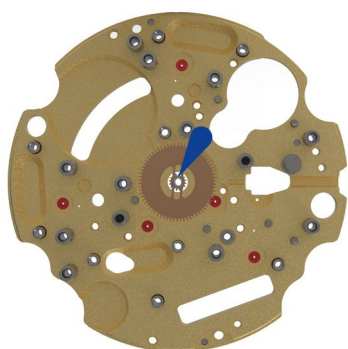
M



3905.070 67.		<b>Date jumper spring</b> Insert the date jumper spring in the provided opening.
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>

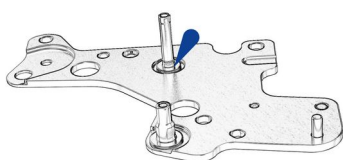





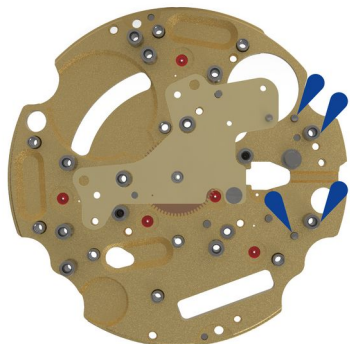
- |   |                                                                                   |            |              |
|---|-----------------------------------------------------------------------------------|------------|--------------|
| 1 |  | 2000.574.G | Main plate   |
| 2 |  | 8200       | Moebius 8200 |






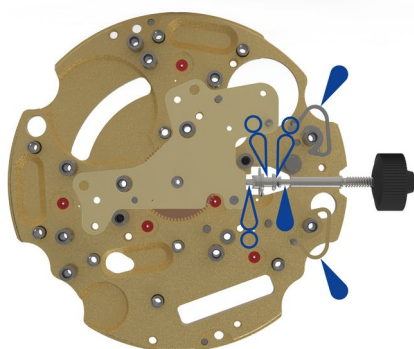
- |   |                                                                                   |             |                      |
|---|-----------------------------------------------------------------------------------|-------------|----------------------|
| 3 |  | 3305.275.CO | Cannon pinion (Aig.) |
| 4 |  | 8200        | Moebius 8200         |








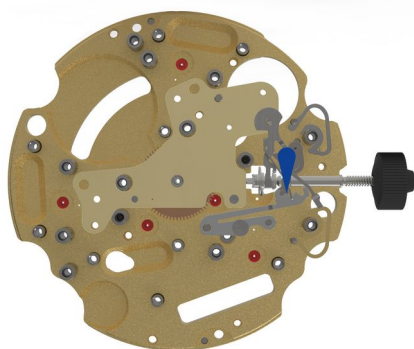
- |   |                                                                                     |      |              |
|---|-------------------------------------------------------------------------------------|------|--------------|
| 5 |  | 8200 | Moebius 8200 |
|---|-------------------------------------------------------------------------------------|------|--------------|








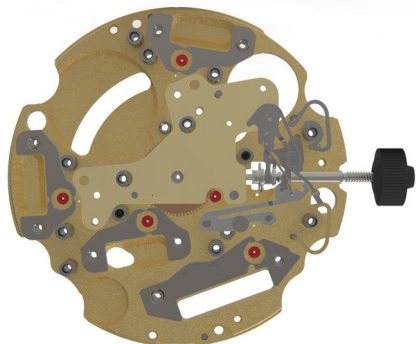
- |   |                                                                                   |             |               |
|---|-----------------------------------------------------------------------------------|-------------|---------------|
| 6 |  | 2030.017.CO | Center bridge |
| 7 |  | 4000.250    | Screw         |
| 8 |  | 8200        | Moebius 8200  |









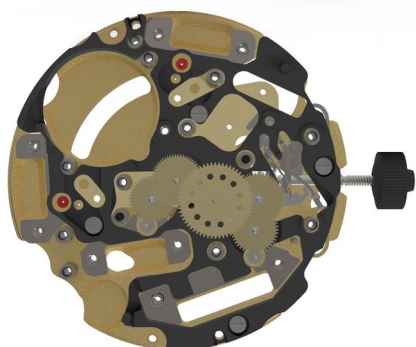
- |    |                                                                                     |             |                                                                   |
|----|-------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------|
| 9  |    | 3406.038    | Pusher jumper A<br>Put the yellow jumper between the two pillars. |
| 10 |    | 3406.030    | Push jumper B<br>Put the grey jumper between the two pillars.     |
| 11 |    | 3000.177.CO | Working stem                                                      |
| 12 |  | 3001.055.FI | Sliding pinion                                                    |
| 13 |  | 8200 / 9020 | Moebius 8200 / Moebius 9020                                       |






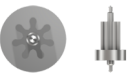
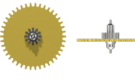
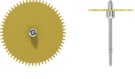

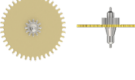


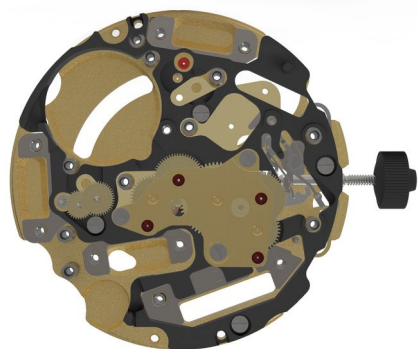
- |    |                                                                                     |          |                      |
|----|-------------------------------------------------------------------------------------|----------|----------------------|
| 14 |  | 3017.049 | Setting lever        |
| 15 |  | 3905.049 | Setting lever jumper |
| 16 |  | 4000.250 | Screw                |
| 17 |  | 3015.081 | Yoke                 |
| 18 |  | 8200     | Moebius 8200         |

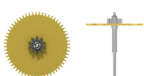
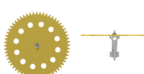





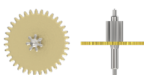









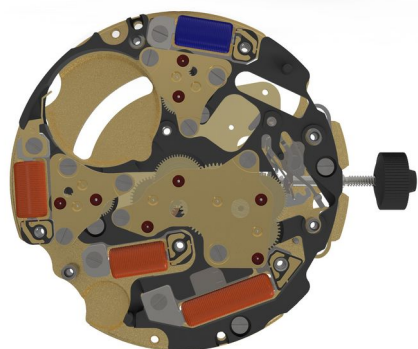
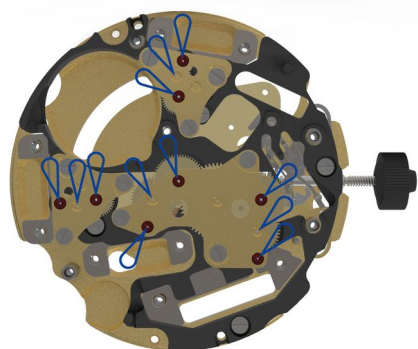
- |    |                                                                                   |          |                                           |
|----|-----------------------------------------------------------------------------------|----------|-------------------------------------------|
| 19 |  | 3905.067 | Yoke spring<br>Tensioning the spring arm. |
| 20 |  | 8200     | Moebius 8200                              |
| 21 |  | 3622.040 | Stator<br>Mark "Z" on stator.             |
| 22 |  | 3622.039 | Stator                                    |
| 23 |  | 3622.039 | Stator                                    |
| 24 |  | 3622.039 | Stator                                    |



- |    |                                                                                     |             |                             |
|----|-------------------------------------------------------------------------------------|-------------|-----------------------------|
| 25 |   | 3603.079    | Plastic bracket             |
| 26 |  | 4000.250    | Screw                       |
| 27 |  | 4000.250    | Screw                       |
| 28 |  | 4000.250    | Screw                       |
| 29 |  | 4000.250    | Screw                       |
| 30 |  | 3715.094.RK | Rotor                       |
| 31 |  | 3147.047.CO | Intermediate wheel (chrono) |
| 32 |  | 3136.143.CO | Chronograph wheel (Aig.)    |
| 33 |  | 3715.094.RK | Rotor                       |
| 34 |  | 3147.099.CO | Intermediate wheel          |







35		3136.142.CO	Seconde wheel long (Aig.)
36		3122.056.CO	Third wheel
37		2020.148.G	Train wheel bridge
38		4000.250	Screw
39		4000.250	Screw
40		4000.250	Screw
41		3715.095.RK	Rotor
42		3147.048.CO	Intermediate wheel (counter)
43		3402.006.CO	Minute counting wheel
44		2020.149.G	Counter train wheel bridge
45		4000.250	Screw
46		4000.250	Screw
47		4000.250	Screw
48		3715.104.RK	Rotor
49		3147.059.CO	Intermediate wheel (counter)





50   3402.006.CO Minute counting wheel

51  2020.149.G Counter train wheel bridge


52   4000.250 Screw

53   4000.250 Screw

54   4000.250 Screw


55  9014 Moebius 9014



56  3621.055.RK Coil  
Attention: Please hold the coil only on the grey coil core.



57  3621.053.RK Coil  
Attention: Please hold the coil only on the grey coil core.



58  3621.054.RK Coil  
Attention: Please hold the coil only on the grey coil core.



59  3621.054.RK Coil  
Attention: Please hold the coil only on the grey coil core.

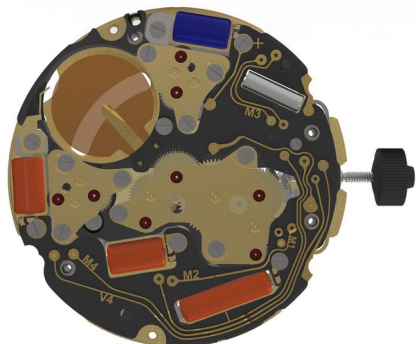
60  3601.118 Contact strip








61   4000.250 Screw

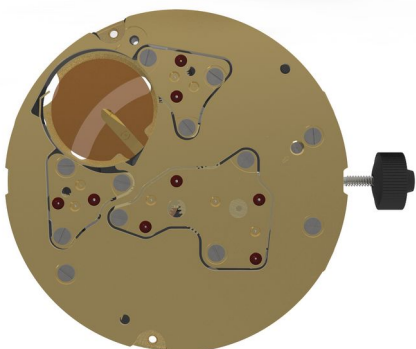
62   4000.250 Screw







63   4000.250 Screw

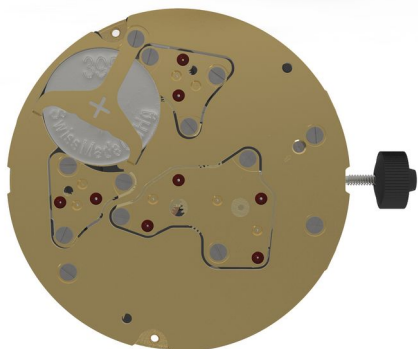
64   4000.250 Screw




65		3603.034	Battery insulator
66		3612.273.RK.5030	Electronic module
67		4000.248	Screw
68		4000.248	Screw
69		4000.248	Screw
70		4000.248	Screw
71		4000.248	Screw




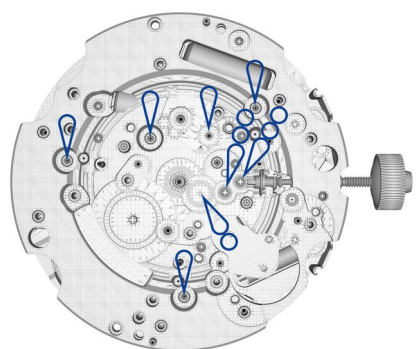
72		3603.069	Circuit insulator
73		3601.107.G	Pusher contact spring
74		2130.137.G.M01.5030D	Electronic module cover
75		4000.250	Screw
76		4000.250	Screw
77		4000.250	Screw




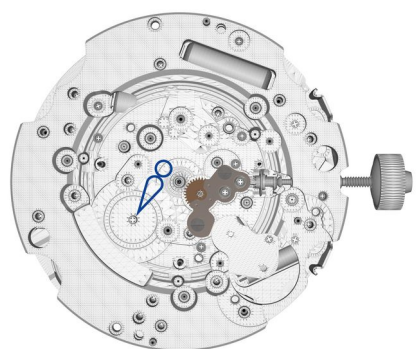
78  3600.010.HGF Battery 395 (Ø 9.50 x 2.70)


79  3601.109.G Bridle +


80  4000.250 Screw

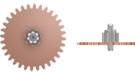



81  I-4 / 9020 / 9014 Moebius I-4 / Moebius 9020 / Moebius 9014





82  3004.164.TA Setting wheel


83  3004.164.TA Setting wheel

84  3007.054.CO Minute wheel

85  2130.143 Minute train bridge

86  4000.305 Screw

87  4000.305 Screw


88  9020 Moebius 9020








89  3004.224.CO Date indicator driving wheel


90  3301.241 Hour wheel (Aig.)

91  3315.016 Friction spring


92  3504.243.AB.1.A Date indicator (T3, G4)  
Nick of the indicator at 3 o'clock.

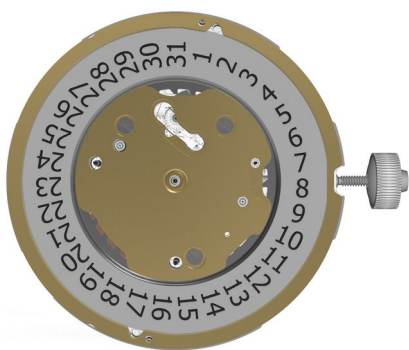
93  3500.049 Date jumper

94  3905.070 Date jumper spring  
Insert the date jumper spring in the previous opening.


95  8200 Moebius 8200


96  2130.141 Date indicator maintaining plate


97  4000.250 Screw




98  2130.140.G Date mechanism maintaining plate

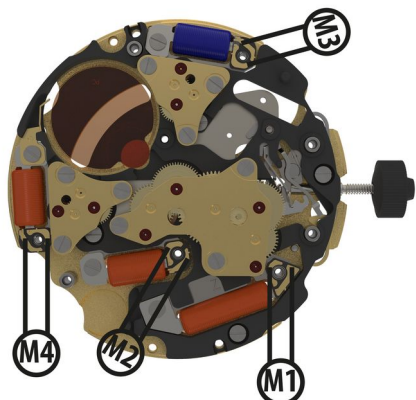
99  4000.250 Screw

100  4000.250 Screw

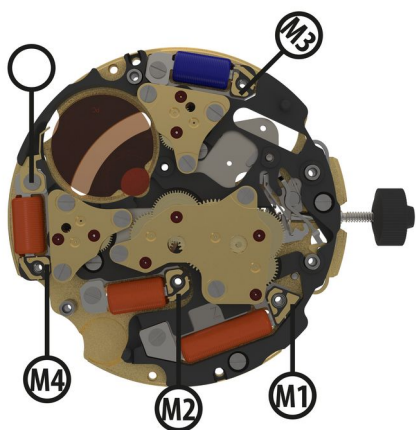
101  8200 Moebius 8200

102  3506.072.G Dial support

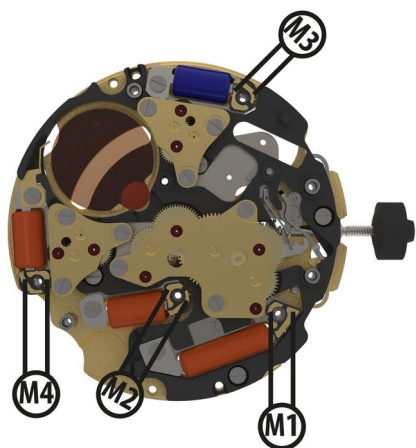
## Measurement



Signal generator (4.9ms, 8Hz)  
< 1.20 V



Coil insulation M1 - M4  
infinite

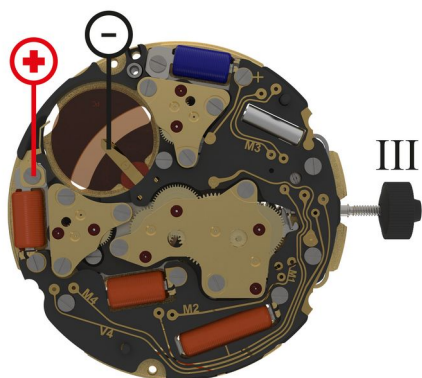


Coil resistance movement  
1900 - 2100 Ohm

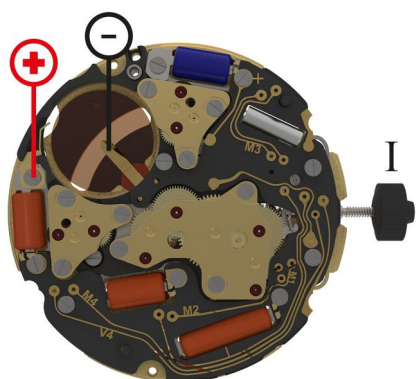
Coil resistance M2  
 $1780 \pm 100$  Ohm

Coil resistance M3  
 $1780 \pm 100$  Ohm

Coil resistance M4  
 $1780 \pm 100$  Ohm



Setting stem in position III, 60 s measuring interval.  
(typ./max.) 0.10 / 0.30  $\mu$ A



Setting stem in position I, calendar not in gear, 60s measuring interval.

(typ./max.) 1.32 / 1.65  $\mu$ A

Lower working voltage limit  
<1.20 V

60s measuring interval  
-10 .. +20s/mth



Voltage  
typ. 1.5 V