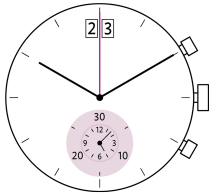
RONDA startech 5000

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

Caliber 5010.B – 12½'''



Product Specifications

Analog quartz movement		
Line		startech
Caliber		5010.B
Size		12½'''
Version	Swiss Made	10 Jewels / gold plated
Standard battery life		54 months
Hand fitting height		2

Features

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

Functions

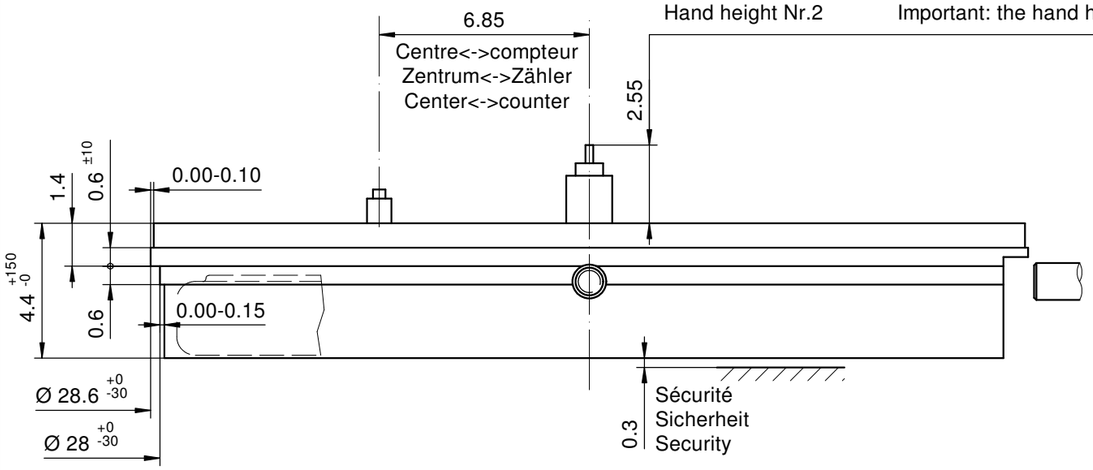
- Chronograph
- Center stop second (1/1 sec)
- 30 minute / 12 hour counter
- ADD and SPLIT functions
- 1 eye
- Big date

Technical Specifications

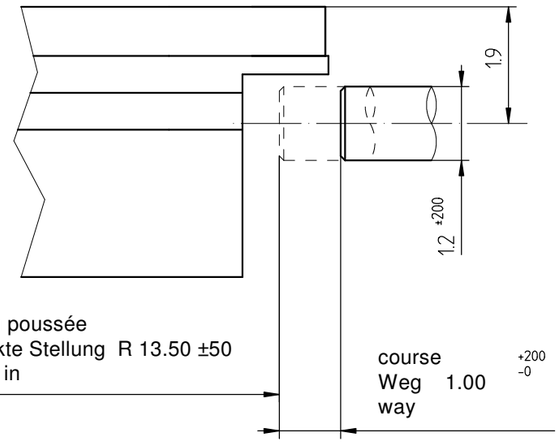
Diameter Total	28.60 mm
Case fitting	28.00 mm
Movement height	4.40 mm
Height over standard battery	4.40 mm
Movement rest	0.60 mm
Height over stem	1.90 mm
Length of stem travel	0.90 mm
Stem thread	0.90 mm
Standard battery	395
Standard battery life	54 months
Battery voltage	1.5 V
Current consumption – typical	1.32 µA (Date Mechanism not in Gear)
Current consumption – maximum	1.65 µA (Date Mechanism not in Gear)
Useful torque 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



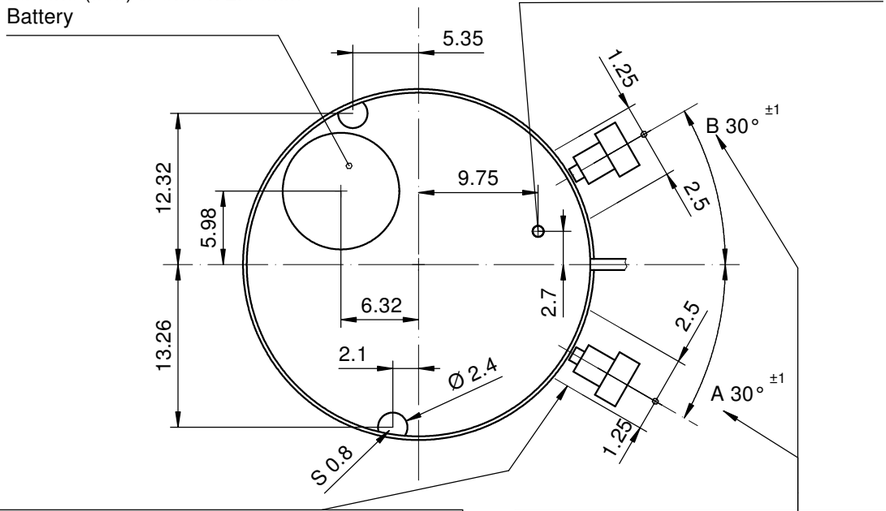
Poussoirs
Drücker
Pushers



Côté fond de boîte
Seite Gehäuseboden
Case back side

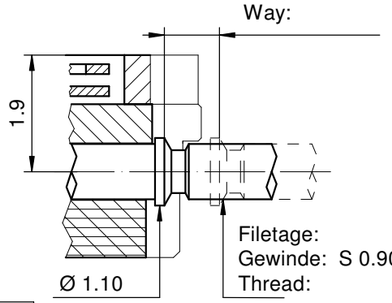
Pile
Batterie (395) Ø 9.50 x 2.60mm
Battery

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

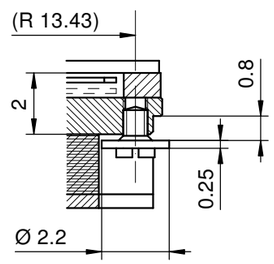


Stellwelle
Tige
Stem

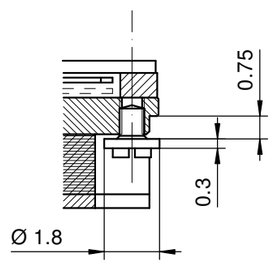
Chemin:
Weg: 0.90
Way:



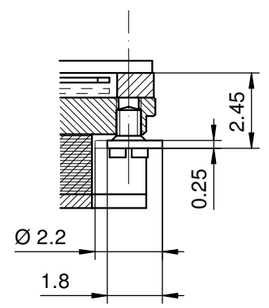
Vis
Schraube Nr. 4000.310
Screw



Vis
Schraube Nr. 4000.195
Screw



Vis
Schraube Nr. 4000.194
Screw



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

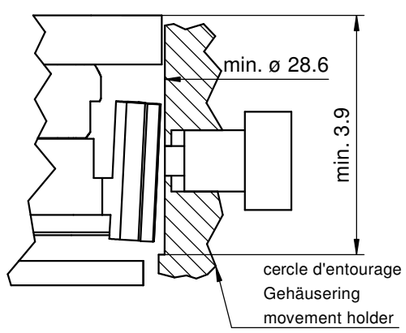
Le cadran doit être tenu par la boîte
Das Zifferblatt muss durch die Schale gehalten werden
The dial must be hold by the case

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

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.

Dégagement cercle d'entourage pour poussoir
Freistellung Gehäusering 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 poussiors 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 fullfilled. For pusher angles of 0° (pusher A and B), see drawing 5000.345.

Cage
Uhrwerkgestell 12½'''
Frame

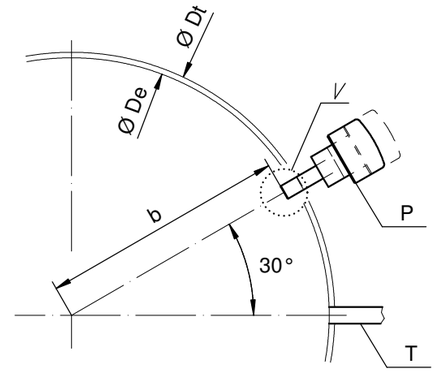
RONDA | 5010.B

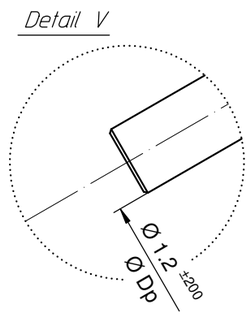
Issued	08 Jan 2001	mg
Modified	05 Sep 2016 ÄA 34777	dh
Released	YES	
Tolerance	+/- 20 µm	
Scale	10 : 1 (5 : 1) (A3H)	

Sous réserve de modifications
Aenderungen vorbehalten
Modifications reserved

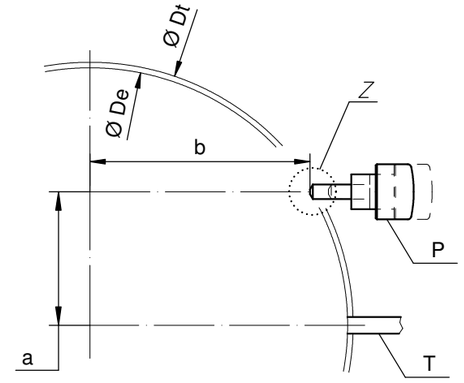
No. 5000.316 07

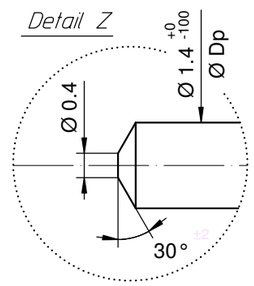
Angle Winkel Angle 30°	
Ø Dp	b
1.00	13.50
1.10	13.50
1.20	13.50
1.30	13.50
1.40	13.50



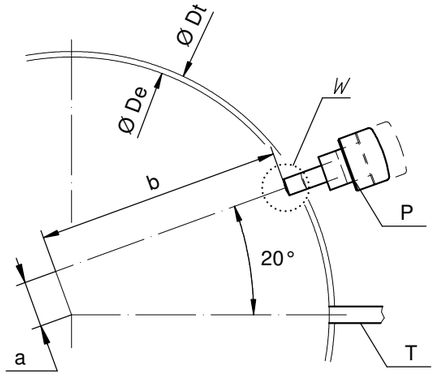


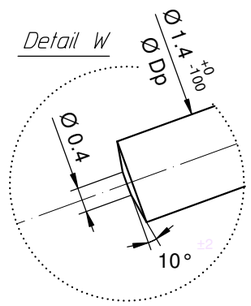
Angle Winkel Angle 0°		
Ø Dp	a	b
1.30	7.40	11.43
1.40	7.45	11.40



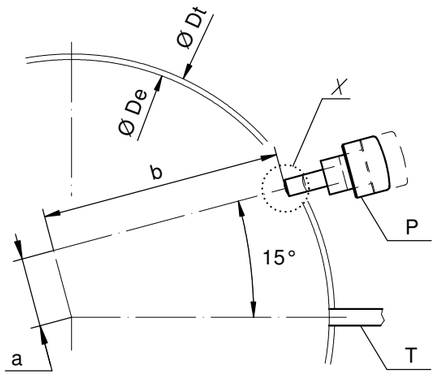


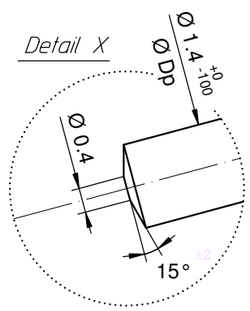
Angle Winkel Angle 20°		
Ø Dp	a	b
1.30	2.57	13.22
1.40	2.59	13.21



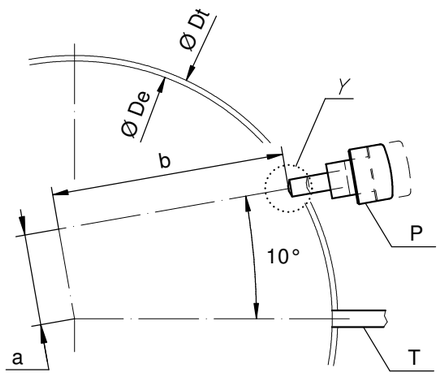


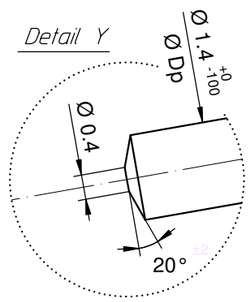
Angle Winkel Angle 15°		
Ø Dp	a	b
1.30	3.83	12.92
1.40	3.86	12.91





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





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

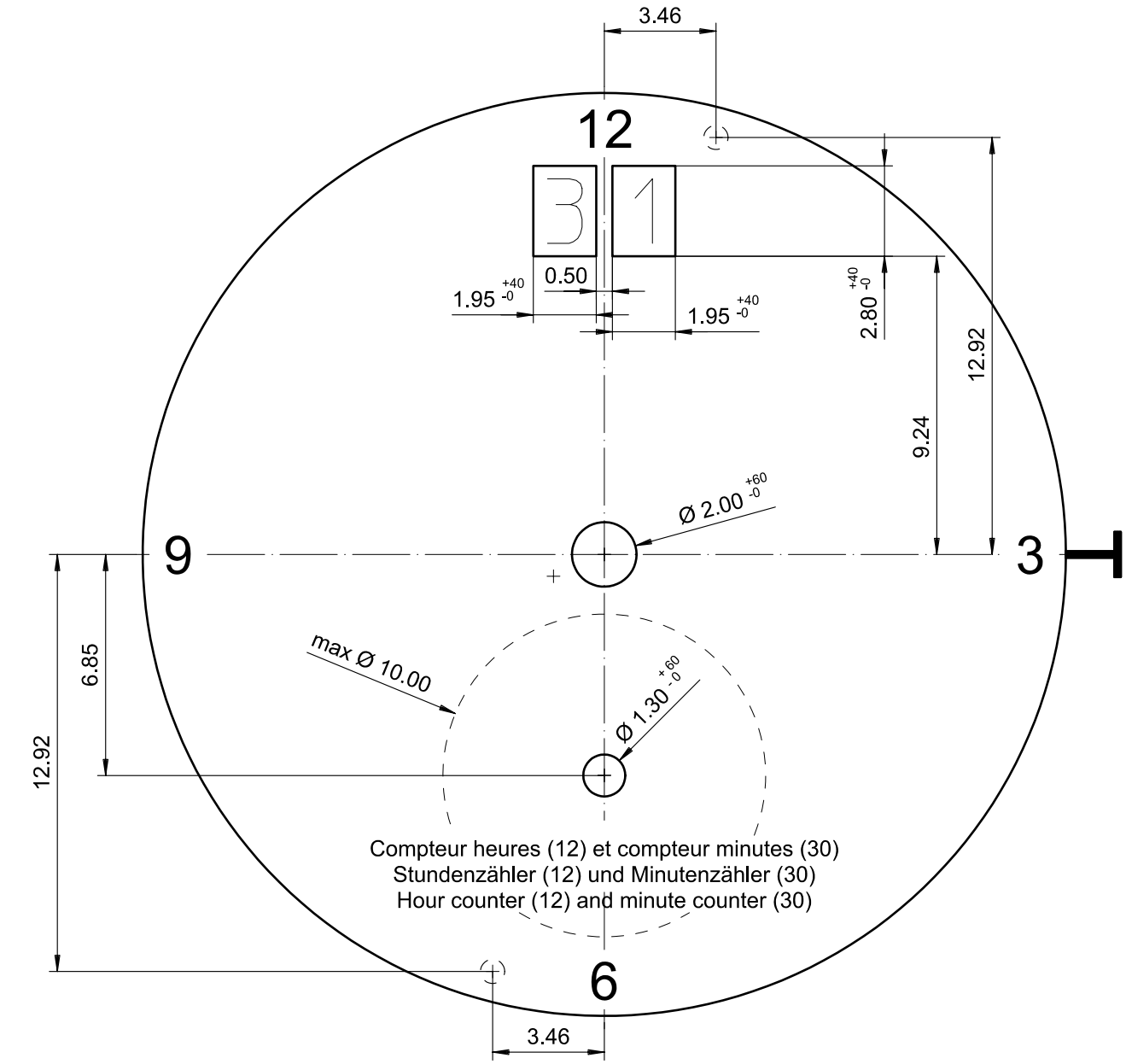
Angle des poussoirs A et B
Winkel der Drücker A und B
Angle of pusher A and B

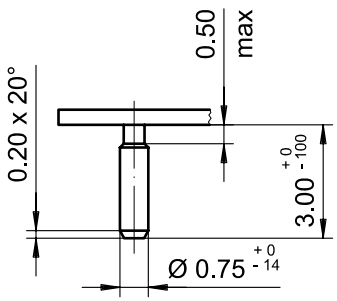
Issued	06 Sep 2004	mk
Modified	30.März 2005 ÄA 1784	mk
Released	YES	
Tolerance	+/- 20 µm	
Scale	10 : 1 (5 : 1) (A3H)	

RONDA | 4xxx.x, 5xxx.x

Sous réserve de modifications
Aenderungen 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	12H

Cadran
Zifferblatt
Dial

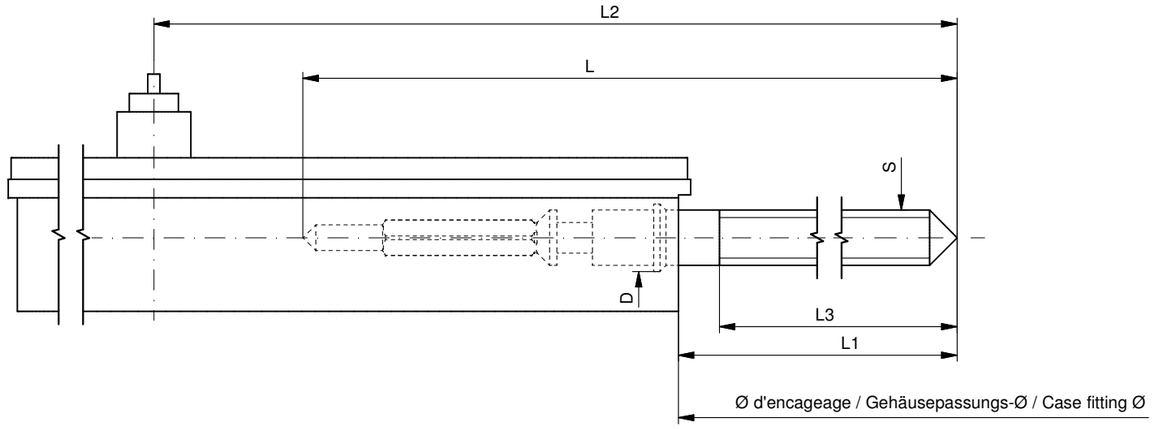
12½‴

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

RONDA | 5010.B

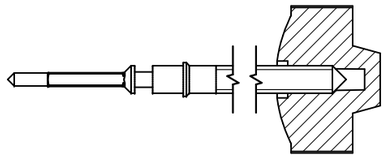
Sous réserve de modifications
Aenderungen vorbehalten
Modifications reserved

No. 5010.690 03



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

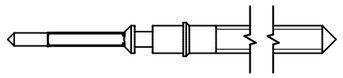
No. d'article Artikelnummer Part number	L	L1	L2	L3	S	D
3000.177.CO	20.00	10.23	24.23	10.15	0.90	1.10



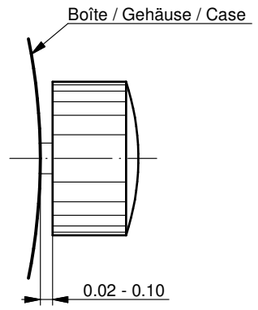
Couleur de la couronne Kronenfarbe Crown color	bleu foncé dunkelblau dark blue
Code	UN 5002

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

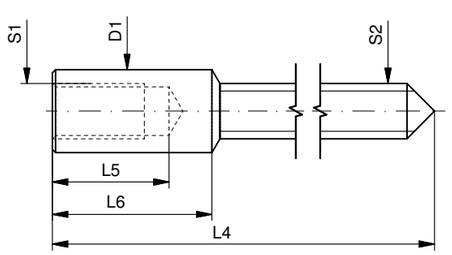


Couronne vissée
Geschraubte Krone
Screwed crown

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 / Stellwelle / Stem
(dimensions / forces)
(Dimensionen / Kräfte)
(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
Aenderungen vorbehalten
Modifications reserved

No.	5030.019	01

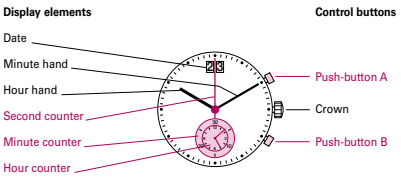
RONDA startech – Movement Cal. 5010.B

User's Manual English

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

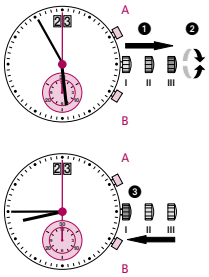
In case of repairs, guarantee claims and questions concerning the functioning of a watch, purchasers and consumers should contact their retailer or the watch manufacturer, for which the relevant information can be found in the sales or guarantee documentation provided with the watch.

Description of the display and control buttons



01

Setting the time



1 * Pull out the crown to position **III** (the watch stops).

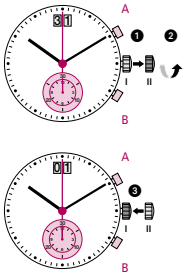
2 Turn the crown until you reach the correct time **8:45**.

3 * Push the crown back into position **I**.

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

02

Setting the date (quick mode)



1 Pull out the crown to position **II** (the watch continues to run).

2 Turn the crown until the correct date 1 appears.

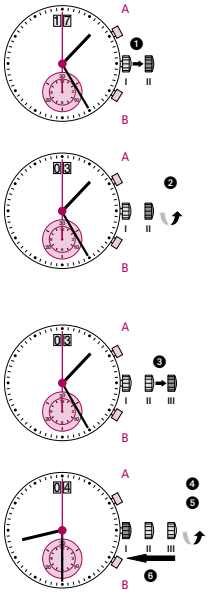
3 Push the crown back into position **I**.

Please note:
During the date changing phase between approx. 9 PM and 12 PM; the date must be set to the date of the following day.

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

03

Setting the date/time



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

1 Pull out the crown to position **II** (the watch continues to run).

2 Turn the crown until yesterday's date appears 3.

3 * Pull out the crown to position **III** (the watch stops).

4 Turn the crown until the correct date 4 appears.

5 ** Continue to turn the crown until the correct time 8:30 PM appears.

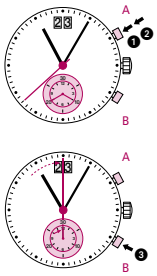
6 Push the crown back into position **I**.

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

04

Chronograph: Basic function

(Start / Stop / Reset)



Example:

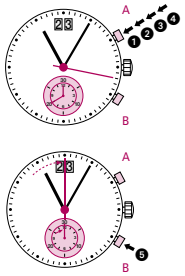
1 **Start:** Press push-button **A**.

2 **Stop:** to stop the timing, press pushbutton A once more and read the chronograph counters:
4h / 20 min / 38 sec

3 **Zero positioning:**
Press push-button **B**.
(The chronograph hands will be reset to their zero positions.)

05

Chronograph: Accumulated timing



Example:

1 **Start:** (start timing)

2 **Stop:** (e.g. **15** min **5** sec following 1)

3 **Restart:** (timing is resumed)

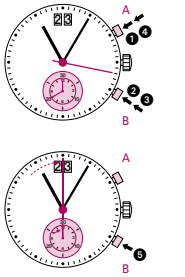
4 * **Stop:** (e.g. **5** min **12** sec following 3)
= **20 min 17 sec**
(The accumulated measured time is shown)

5 **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

Chronograph: Intermediate or interval timing



Example:

1 **Start:** (start timing)

2 **Display interval:**
e.g. **20 minutes 17 seconds** (timing continues in the background)

3 **Making up the measured time:**
(The chronograph hands are quickly advanced to the ongoing measured time.)

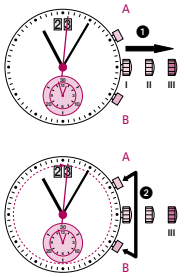
4 **Stop:** (Final time is displayed)

5 **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

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).

1 Pull out the crown to position **III** (all chronograph hands are in their correct or incorrect zero position).

2 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 minute counter hand and the hour counter hand
(mechanical coupled)
Single step A **1 x short**
Continuous A **long**

3 Returning the crown to position **I**

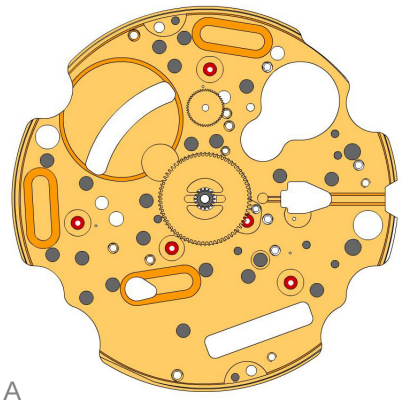
Termination of the chronograph hands adjustment (can be carried out at any time).

08

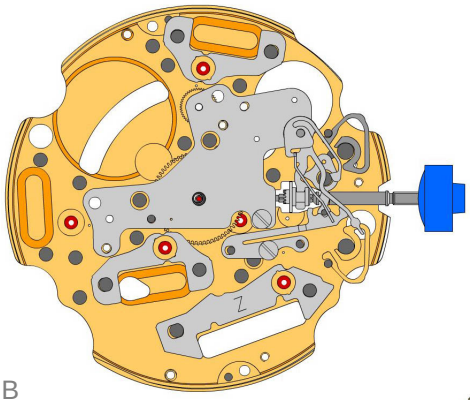
CE

09/2017

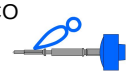
Battery type: 395 / SR927SW
Accuracy: +20 / -10 seconds per month

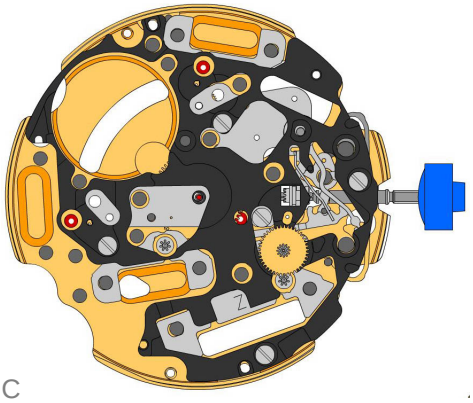


A



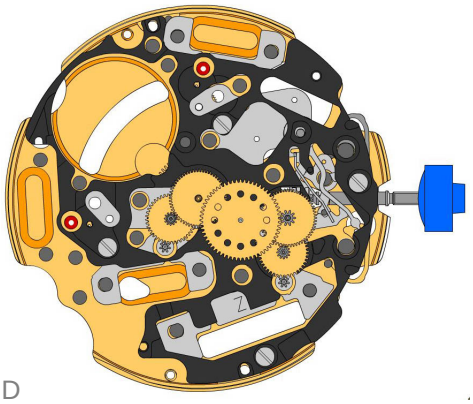
B

2000.574.G 1.		Main plate
3305.282.CO 2.		Cannon pinion with driver (Aig.2)
3301.244 3.		Hour wheel (counter 24h)
2030.017.CO 4.		Centre bridge Centre bridge held by 1 screw 4000.250. Parts 2030.017.CO, 3004.223 and 3500.059 must be exchanged together.
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) Parts 3015.081 and 3905.067 must be exchanged together.
3905.067 12.		Yoke spring Tensioning the spring arm. Parts 3015.081 and 3905.067 must be exchanged together.
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)
3622.039 17.		Stator (counter 6h, 9h, chrono)



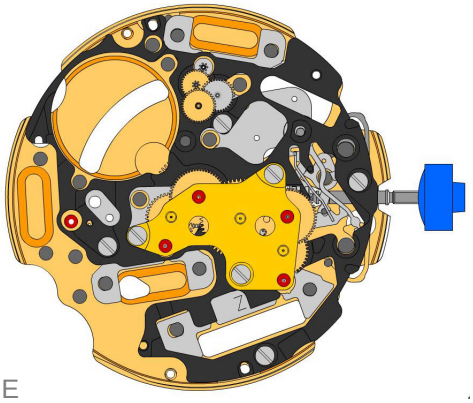
C

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



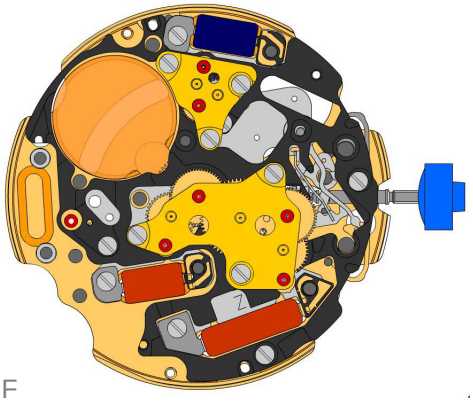
D

3136.148.CO 23.		Second wheel (short)
3147.047.CO 24.		Intermediate wheel (chrono)
3136.144.CO 25.		Chronograph wheel (Aig.2)
3122.056.CO 26.		Third wheel



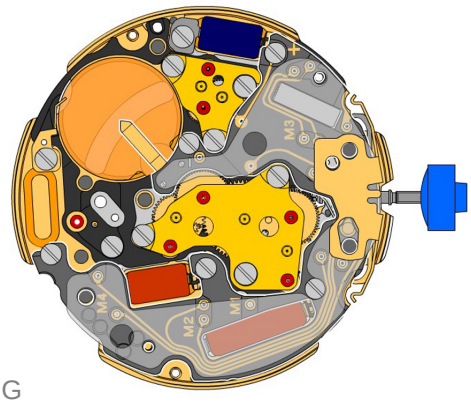
E

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)
3007.056.CO 31.		Minute wheel (counter 24h)
3402.008.CO 32.		Minute counting wheel (24h)
2020.149.G 33.		Counter train wheel bridge Counter train wheel bridge held by 3 screws 4000.250.
4000.250 34.		Screw



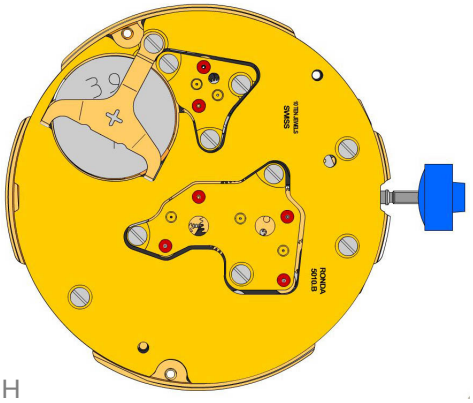
F

3621.053.RK 35.		Coil Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.
3621.079.RK 36.		Coil (centre) Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.
3621.055.RK 37.		Coil (counter 6h) Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.
4000.250 38.		Screw
3603.034 39.		Battery insulator
3503.071 40.		Tube
3503.054 41.		Tube



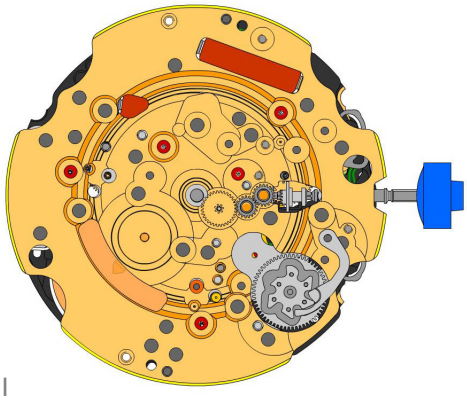
G

3601.118 42.		Contact strip Contact strip held by 1 screw 4000.250.
4000.250 43.		Screw
3612.144.5010 44.		Electronic module Electronic module held by 5 screws 4000.248. Electronic measurements may be realised now.
4000.248 45.		Screw
3603.069 46.		Circuit insulator
3601.107.G 47.		Pusher contact spring



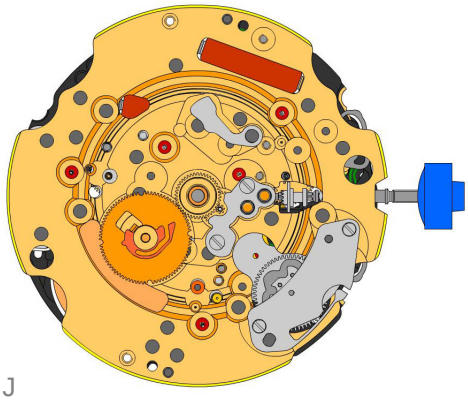
H

2130.139.G.M01.5010B 48.		Electronic module cover Electronic module cover held by 3 screws 4000.250.
4000.250 49.		Screw
3600.010.HGF 50.		Battery 395
3601.109.G 51.		Bridle + Bridle held by 1 screw 4000.250.
4000.250 52.		Screw



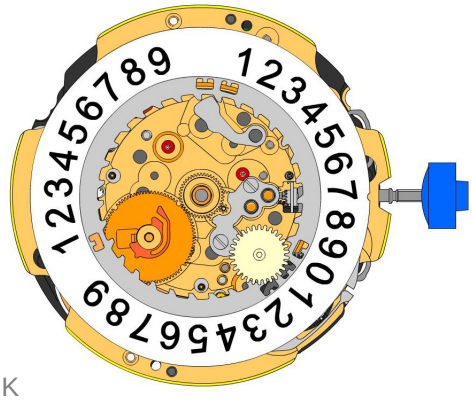
I

2000.574.G 53.		Main plate
3004.164 54.		Setting wheel
3004.164 55.		Setting wheel
3007.054.CO 56.		Minute wheel
2130.143 57.		Minute train bridge Minute train bridge held by 2 screws 4000.305.
4000.305 58.		Screw



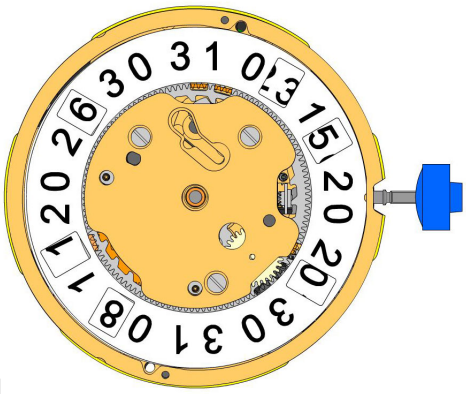
J

3004.223 59.		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 60.		Tens jumper Parts 2030.017.CO, 3004.223 and 3500.059 must be exchanged together.
2130.142 61.		Tens jumper maintaining plate Tens jumper maintaining plate held by 2 screws 4000.306. Tensioning the spring arm.
4010.306 62.		Screw
3301.242 63.		Hour wheel (Aig.2)
3315.016 64.		Friction spring
3004.224.CO 65.		Date indicator driving wheel
3500.049 66.		Date jumper



K

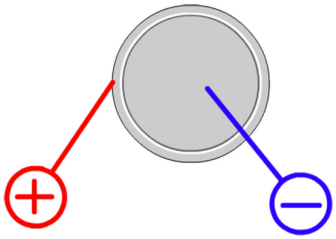
3504.214.AF.1.A 67.		Units indicator (standard) Nick of the indicator at 3 o`clock.
3147.054 68.		Tens intermediate wheel
2130.141 69.		Date indicator maintaining plate Date indicator maintaining plate held by 1 screw 4000.250.
3905.070 70.		Date jumper spring Insert the date jumper spring in the provided opening.



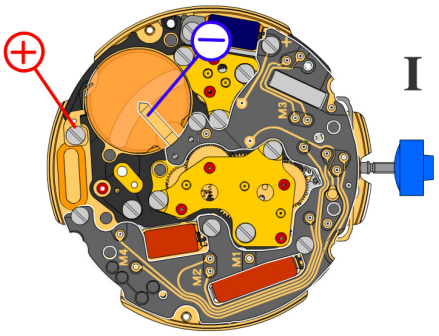
L

3504.216.AF.1.A 71.		Tens indicator (standard) Nick of the indicator at 3 o`clock.
2130.140.G 72.		Date mechanism maintaining plate Date mechanism maintaining plate held by 2 screws 4000.250.
4000.250 73.		Screw
3506.072.G 74.		Dial support

9010.000 75.		Moebius 8200
9014.000 76.		Moebius 9014
9018.000 77.		Jismaa 124
9020.000 78.		Moebius 9020

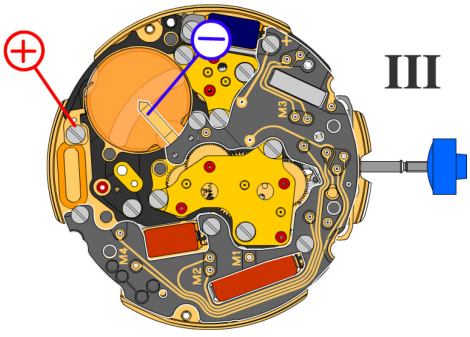


Battery	**395**
Voltage	**1.55 V**



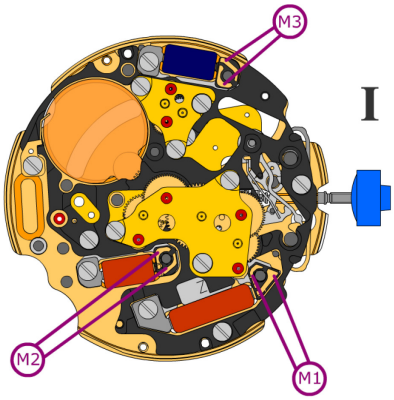
Setting stem in position I, calendar not in gear,
60 s measuring interval for rate and consumption:

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

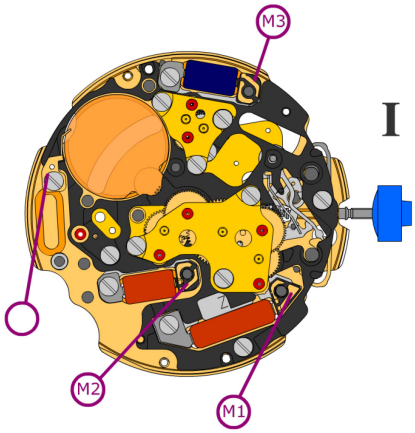


Setting stem in position III, 60 s measuring interval:

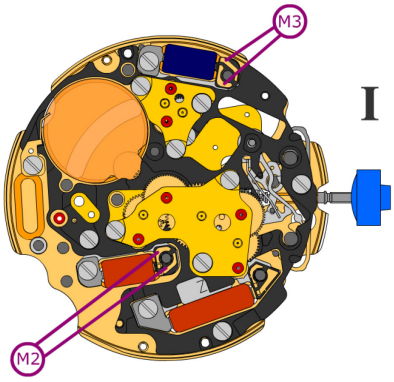
Typical consumption	***0.10 µA***
Maximal consumption	***0.30 µA***



Coil resistance M1	**1.90 kΩ .. 2.10 kΩ**
Coil resistance M2	**1.68 kΩ .. 1.88 kΩ**
Coil resistance M3	**1.68 kΩ .. 1.88 kΩ**

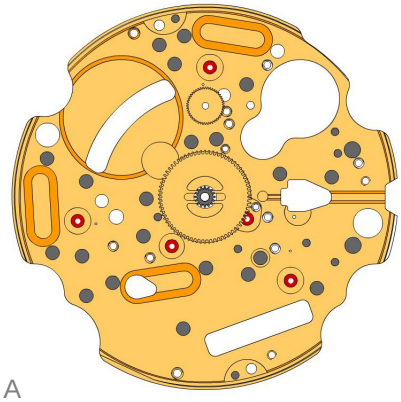


Coil isolation M1/M2/M3	**∞ kΩ**

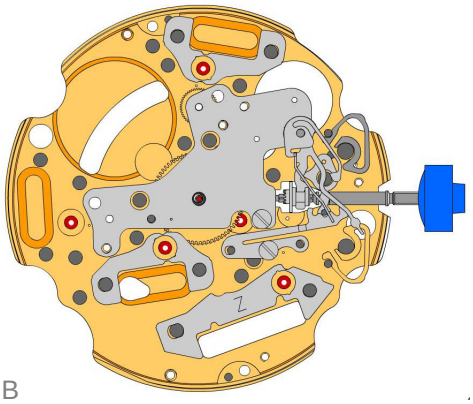


Signal generator (4.9 ms, 8 Hz):

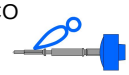
Lower working voltage limit M2/M3	**1.20 V**

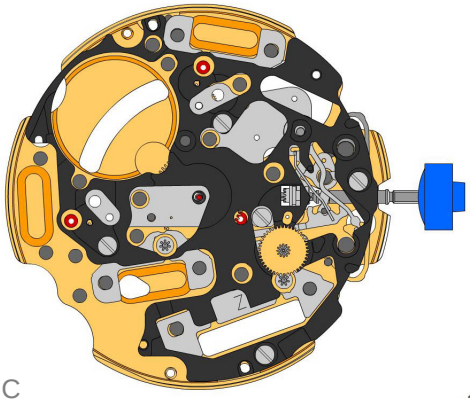


A



B

2000.574.G 1.		Main plate
3305.282.CO 2.		Cannon pinion with driver (Aig.2)
3301.244 3.		Hour wheel (counter 24h)
2030.024.CO 4.		Centre bridge Centre bridge held by 1 screw 4000.250.
4000.250 5.	 	Screw
3001.055.FI 6.		Sliding pinion
3000.177.CO 7.		Setting stem
3017.049 8.		Setting lever
3905.049 9.		Setting lever jumper (3 positions) Setting lever jumper 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)
3622.039 17.		Stator (counter 6h, 9h, chrono)



C

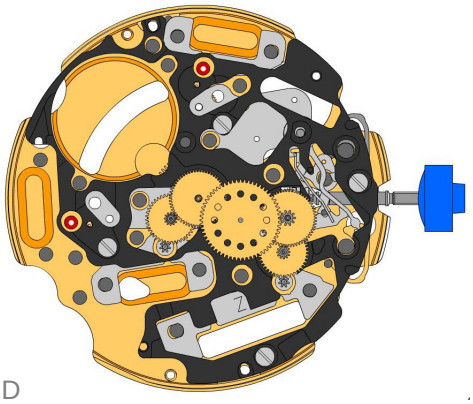
3603.079
18. Plastic bracket
Plastic bracket held by 4 screws 4000.250.

4000.250
19. Screw

3715.094.RK
20. Rotor

3715.094.RK
21. Rotor

3147.046.CO
22. Intermediate wheel



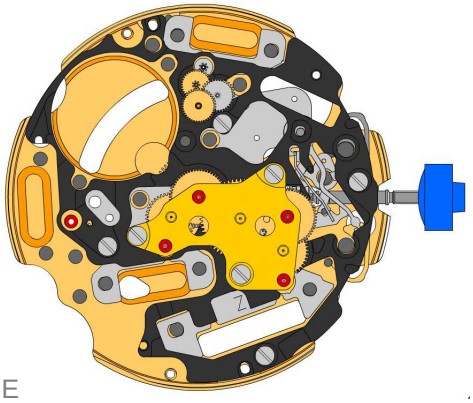
D

3136.148.CO
23. Second wheel (short)

3147.047.CO
24. Intermediate wheel (chrono)

3136.144.CO
25. Chronograph wheel (Aig.2)

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

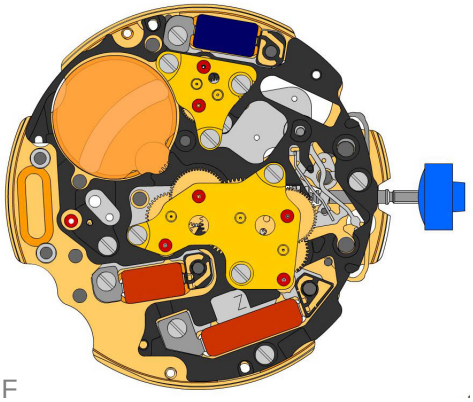
3147.048.CO
30. Intermediate wheel (counter)

3007.056.CO
31. Minute wheel (counter 24h)

3402.008.CO
32. Minute counting wheel (24h)

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

4000.250
34. Screw



F

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

3621.079.RK
36. Coil (centre)
Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.

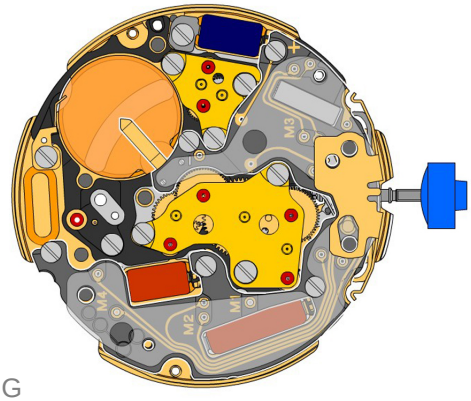
3621.055.RK
37. Coil (counter 6h)
Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.

4000.250
38. Screw

3603.034
39. Battery insulator

3503.071
40. Tube

3503.054
41. Tube



G

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

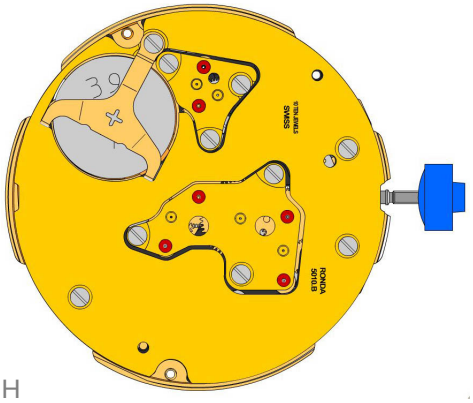
4000.250
43. Screw

3612.144.5010
44. Electronic module
Electronic module held by 5 screws 4000.248. Electronic measurements may be realised now.

4000.248
45. Screw

3603.069
46. Circuit insulator

3601.107.G
47. Pusher contact spring



H

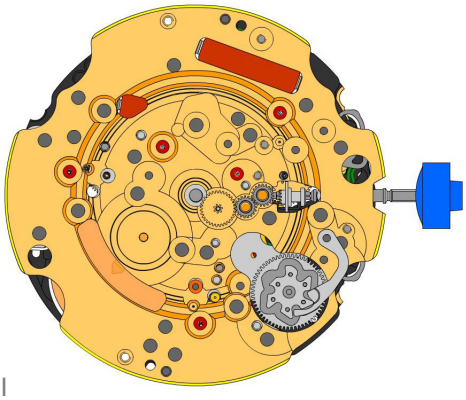
2130.139.G.M01.5010B
48. Electronic module cover
Electronic module cover held by 3 screws 4000.250.

4000.250
49. Screw

3600.010.HGF
50. Battery 395

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

4000.250
52. Screw



I

2000.574.G
53. Main plate

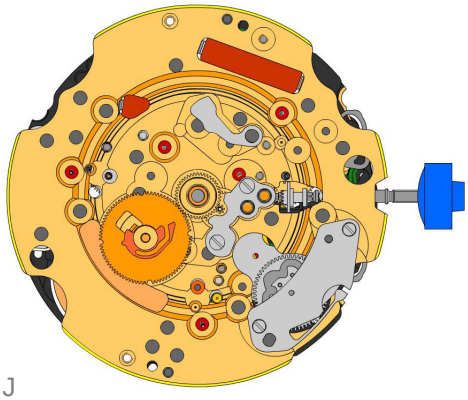
3004.164
54. Setting wheel

3004.164
55. Setting wheel

3007.054.CO
56. Minute wheel

2130.143
57. Minute train bridge
Minute train bridge held by 2 screws 4000.305.

4000.305
58. Screw



J

3004.227
59. Tens indicator driving wheel
The short tooth of the tens indicator driving wheel must point to the center of the movement.

3500.075
60. Tens jumper

2130.142
61. Tens jumper maintaining plate
Tens jumper maintaining plate held by 2 screws 4000.306. Tensioning the spring arm.

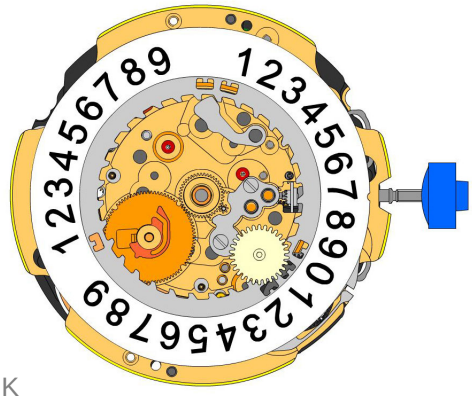
4010.306
62. Screw

3301.242
63. Hour wheel (Aig.2)

3315.016
64. Friction spring

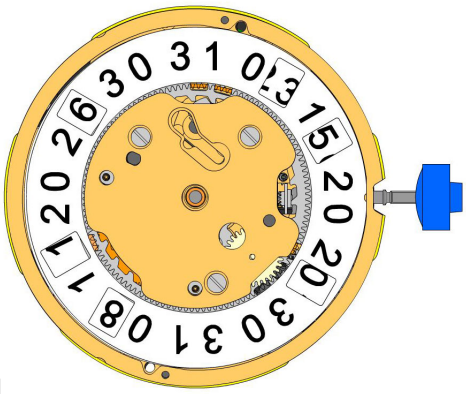
3004.224.CO
65. Date indicator driving wheel

3500.049
66. Date jumper



K

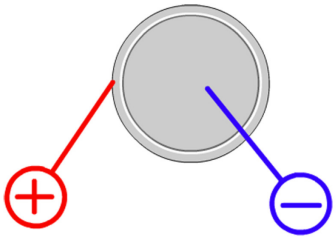
3504.214.AF.1.A 67.		Units indicator (standard) Nick of the indicator at 3 o`clock.
3147.054 68.		Tens intermediate wheel
2130.141 69.		Date indicator maintaining plate Date indicator maintaining plate held by 1 screw 4000.250.
3905.070 70.		Date jumper spring Insert the date jumper spring in the provided opening.



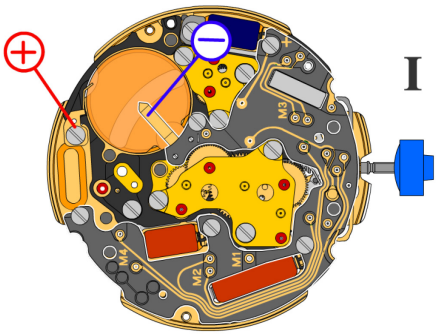
L

3504.216.AF.1.A 71.		Tens indicator (standard) Nick of the indicator at 3 o`clock.
2130.140.G 72.		Date mechanism maintaining plate Date mechanism maintaining plate held by 2 screws 4000.250.
4000.250 73.		Screw
3506.072.G 74.		Dial support

9010.000 75.		Moebius 8200
9014.000 76.		Moebius 9014
9018.000 77.		Jismaa 124
9020.000 78.		Moebius 9020

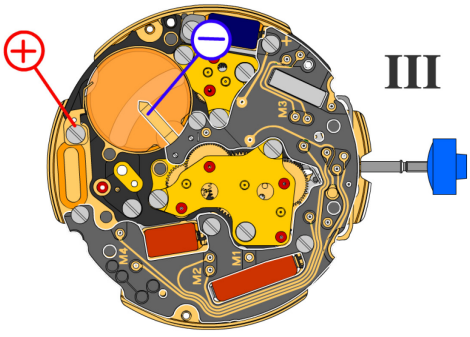


Battery	**395**
Voltage	**1.55 V**



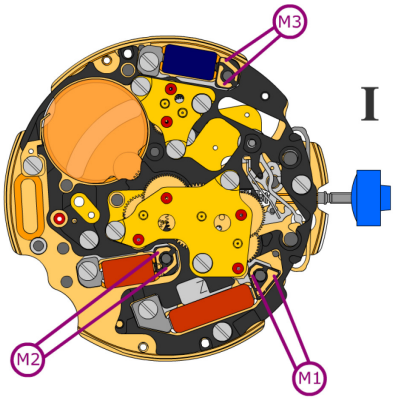
Setting stem in position I, calendar not in gear,
60 s measuring interval for rate and consumption:

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

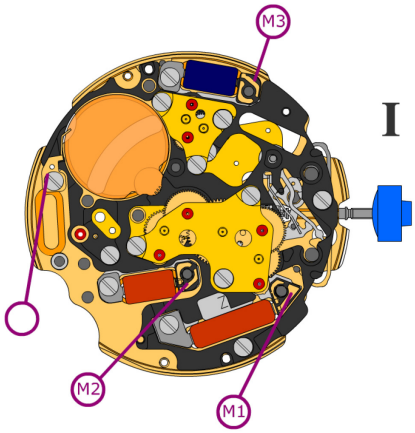


Setting stem in position III, 60 s measuring interval:

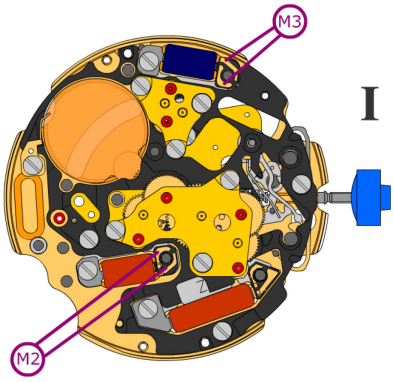
Typical consumption	***0.10 µA***
Maximal consumption	***0.30 µA***



Coil resistance M1	**1.90 kΩ .. 2.10 kΩ**
Coil resistance M2	**1.68 kΩ .. 1.88 kΩ**
Coil resistance M3	**1.68 kΩ .. 1.88 kΩ**



Coil isolation M1/M2/M3	**∞ kΩ**



Signal generator (4.9 ms, 8 Hz):

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