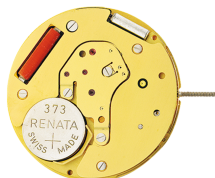


Caliber 6003.B – 11½"



Product Specifications

Analog quartz movement

Line xtratech

Caliber 6003.B

Size 11½"

Version Swiss Made 4 Jewels / gold plated EOL

Version Swiss Parts 1 Jewels / nickel plated

Standard battery life 40 months

Standard hand fitting height 1

Features

- Repairable metal watch movement
- Power saving mechanism with pulled out stem:
Reduction of consumption approximately 70%
- Big date with quick change

Functions

- Multifunction
- Big date
- 3 hands

Quartz Movements

Multifunctions

RONDA xtratech

Caliber 6003.B – 11½"

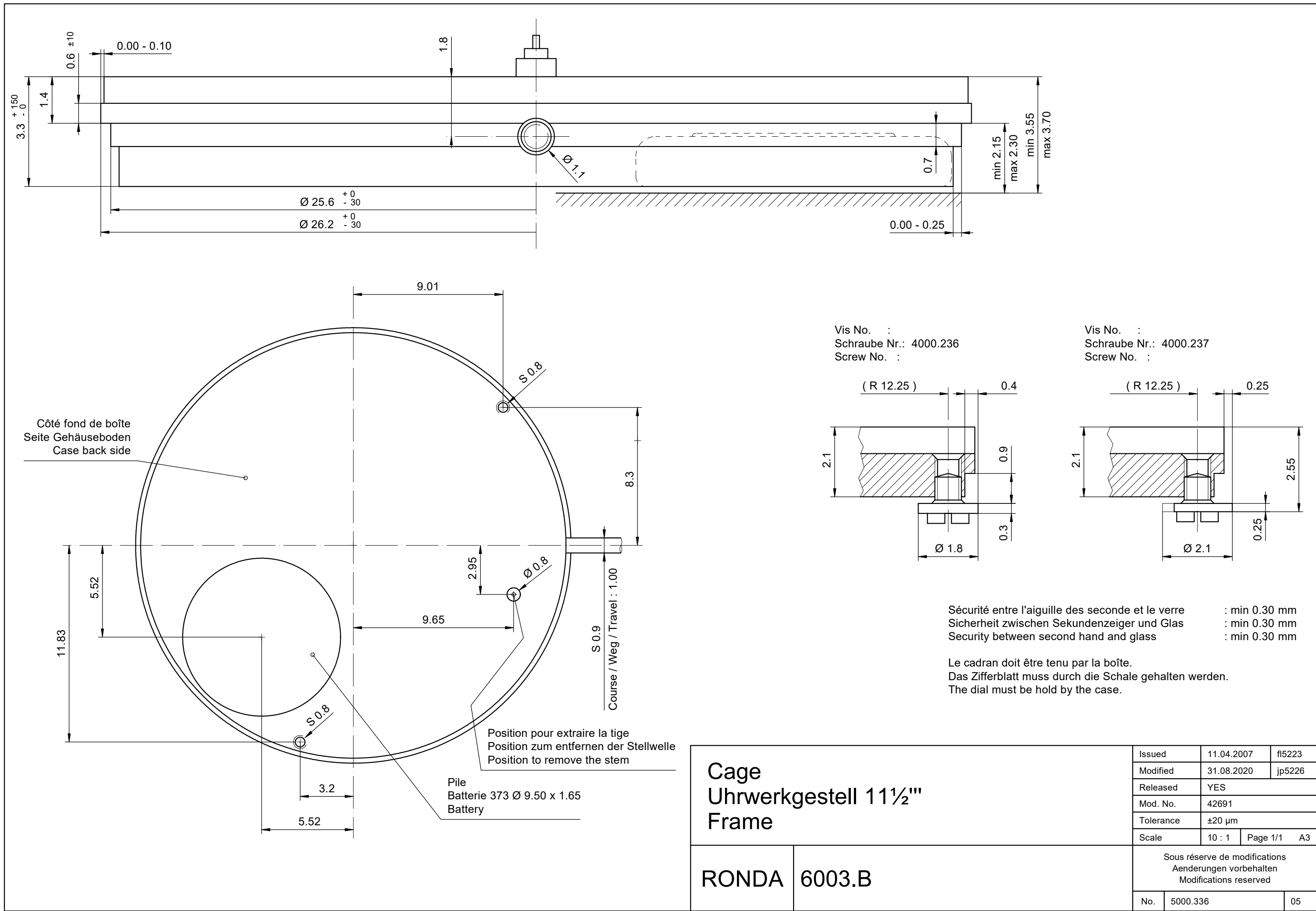
Technical Specifications

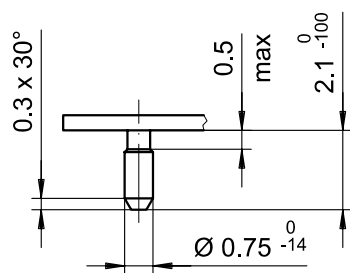
Diameter Total	26.00 mm
Case fitting	25.60 mm
Movement height	3.30 mm
Height over standard battery	3.30 mm
Movement rest	0.60 mm
Height over stem	1.80 mm
Length of stem travel	1.00 mm
Stem thread	0.90 mm
Useful torque second – typical	6 µNm
Useful torque minute – typical	300 µNm
Operating temperature	0 - 50 °C
Instantaneous rate	-10/ +20 sec/month
Resistance to magnetic fields	18.8 Oe
Resistance against shock	NIHS 91-10



Battery Specifications

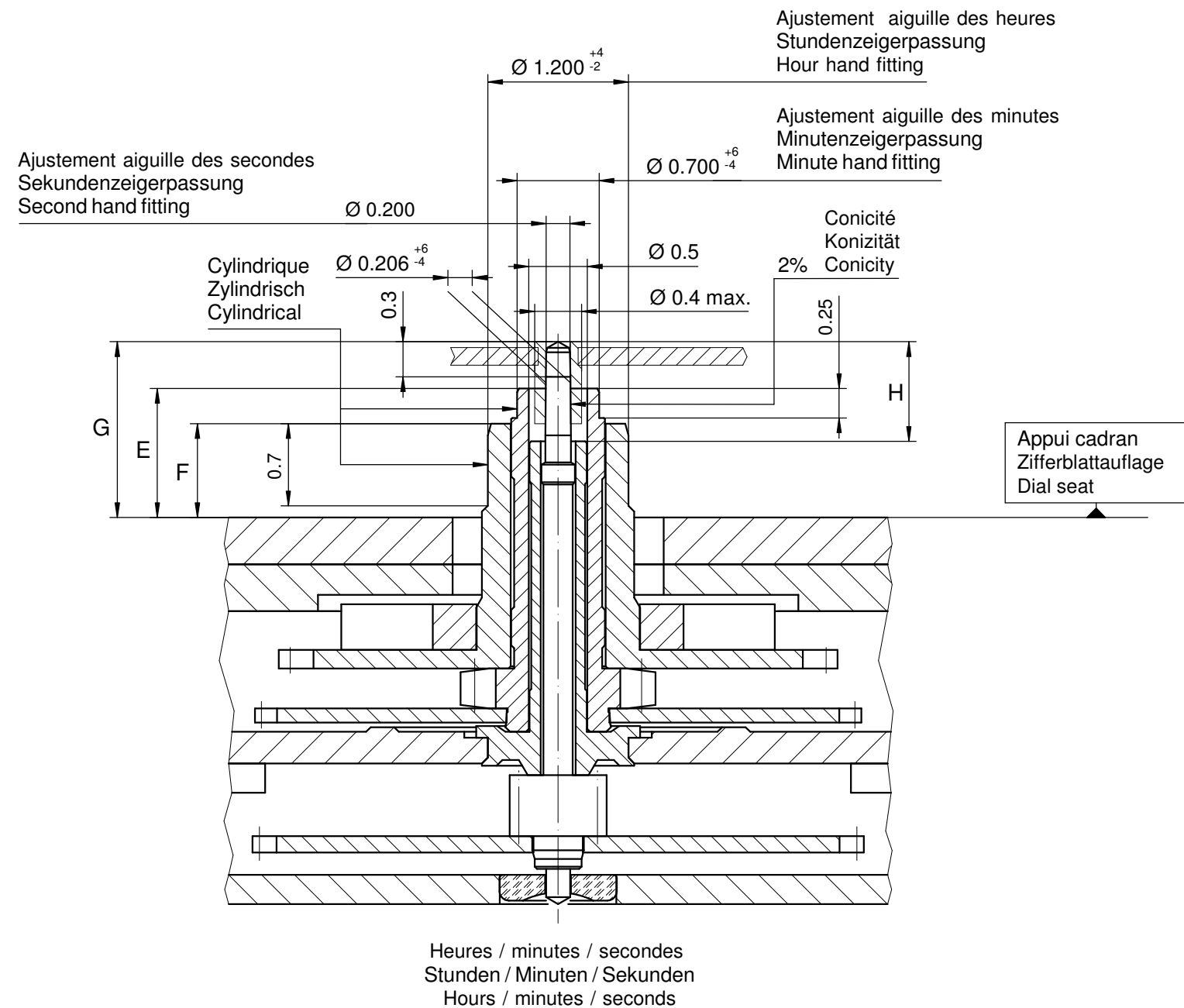
Standard battery	No. 373
Standard battery life	40 months
Battery voltage	1.5 V
Current consumption – typical	1.03 µA (Date Mechanism not in Gear)
Current consumption – maximum	1.45 µA (Date Mechanism not in Gear)





Tige	Date
Stellw.	Datum
Stem	Date
03H	12H
	<div></div>

Cadran Zifferblatt Dial		11½"		Issued	06 Mai 2004	mg
				Modified	17 Okt 2008 ÄA 5749	dh
				Released	YES	
				Tolerance	+/- 20 µm	
				Scale	5 : 1 (A4V)	
RONDA	6003.B, 6002.B	Sous réserve de modifications Änderungen vorbehalten Modifications reserved				
		No.	5010.785		02	



		Aig. des secondes Sekundenzeiger Second hand	Aig. des minutes Minutenzeiger Minute hand	Aig. des heures Stundenzeiger Hour 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	Masse / Masse / Weight *
µNm	max.	0.05	0.80	0.80	Balourd / Unwucht / Unbalance *
gmm ²	max.	0.4	-	-	Inertie / Massenträgheit / Inertia *
N	max.	30	40	40	Force de chassage / Aufpresskraft / Force

Aiguillages Zeigerwerkhöhe Hand fitting height				
Dépassement Höhe über Zifferblattaufgabe Height over dial seat				
	Pignon des secondes Sekundentrieb Second pinion	Chaussée Minutenrohr Cannon-pinion	Roue des heures Stundenrad Hour wheel	
No	G	E	F	H
1	1.50	1.10	0.80	0.85
2	1.70	1.30	1.00	1.05

Aiguillages Zeigerwerkhöhe Hand fitting height				
Peinture comprise / inkl. Farbe / Paint included				
Epaisseur maximum du cadran Maximale Zifferblattdicke Maximum dial thickness				Epaisseur des aiguilles Zeigerdicke Hands thickness
No	Sous l'aiguille des secondes Unter Sekundenzeiger Under second hand	Sous l'aiguille des minutes Unter Minutenzeiger Under minute hand	Sous l'aiguille des heures Unter Stundenzeiger Under hour hand	
1	1.00	0.70	0.40	0.15
2	1.20	0.90	0.60	0.15

Aiguillages Zeigerwerkhöhen 11½" Hand fitting heights		Issued	02 Sep 2005	fl
		Modified	11 Nov 2013 ÄA 13587	dh
		Released	Yes	
		Tolerance	µm	
		Scale	20 : 1 (A3H)	
RONDA	6003.B	Sous réserve de modifications Änderungen vorbehalten Modifications reserved		
		No.	3316.098	05

* 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)

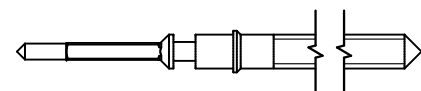
No. d'article Artikelnummer Part number	L	L1	L2	L3	S	D
3000.189.CO	19.30	10.57	23.37	10.15	0.90	1.10



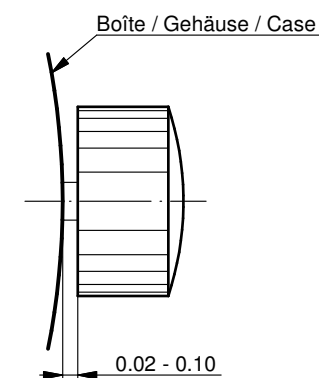
Couleur de la couronne Kronenfarbe Crown color	marron kastanienbraun chestnut
Code	UN 8018

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

No. d'article Artikelnummer Part number	L	L1	L2	L3	S	D
3000.189	19.30	10.57	23.37	10.15	0.90	1.10
3000.199	25.00	16.27	29.07	15.85	0.90	1.10



Couronne normale
Normale Krone
Normal crown

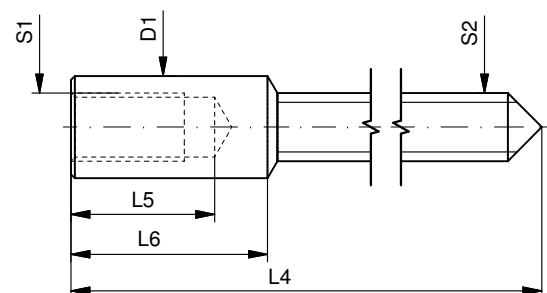


Couronne vissée
Geschraubte Krone
Screwed crown

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

6003.B, 6003.D, 6004.B,
6004.D

Issued	06 Sep 2012	ds5222
Modified	17 Mär 2017 ÄA 34582	mg5224
Released	YES	
Tolerance	---	
Scale	10:1 (A3)	
Sous réserve de modifications Äenderungen vorbehalten Modifications reserved		
No.	5030.021	01



Movement holder
Removing setting stem
H6XXX.1T



Movement holder
Setting hands
H6XXX.1A2

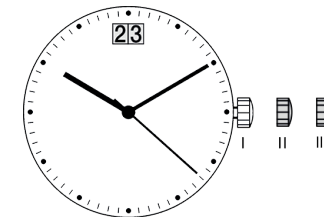
Fitting dial and hands

- Crown in position II
- Wind crown, until date 02 appears
- Crown in position III
- Wind hour hand forwards, until date changes to 03
- Remove working hand
- Fit dial
- Point all hands towards 12 o'clock
- Set time
- Crown in position II
- Set date
- Crown in position I

Date switching duration

First and tenth digit discs

~2hrs



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 hand: <30N

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

User's Manual English
Movements Caliber

RONDA powertech

- 585
- 505
- 515

RONDA normtech

- 774 - 6003.D
- 775 - 6004.D
- 704
- 705
- 784
- 785
- 714
- 715
- 715Li

RONDA slimtech

- 1005
- 1006
- 1009
- 1015
- 1016
- 1019

RONDA xtratech

- 6003.B
- 6004.B
- 7002.B
- 7003.B
- 7004.B

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.

Cal. 585 / 785:
Battery type: 362/SR721SW

Cal. 774 / 775 / 784:
Battery type: 364/SR621SW

Cal. 505 / 515 / 704 / 705 / 714 / 715:
Battery type: 371/SR920SW

Cal. 6003.D / 6004.D / 6003.B / 6004.B:
Battery type: 373/SR916SW

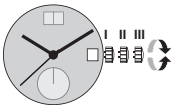
Cal. 1005 / 1006 / 1009 / 1015 / 1016 / 1019:
Battery type: 341/SR714SW

Cal. 7002.B / 7003.B / 7004.B:
Battery type: 381/SR1120SW

Cal. 715Li:
Battery type: CR 2016

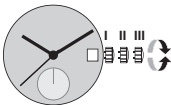
Precision: +20/-10 seconds per month

Cal. 585	Cal. 6003.D
Cal. 505	Cal. 6004.D
Cal. 515	Cal. 6003.B
	Cal. 6004.B



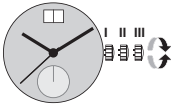
- Pos. I Position of rest (watch running)**
- Pos. II Quick-change correction for date**
The date can also be corrected during the day-changing phase between 10 pm and midnight. The date of the following day has to be set, because no automatic date change takes place at midnight.
- Pull the crown out to position II (watch still running).
 - Turn the crown clockwise until the required date appears.
Cal. 6003.D & 6004.D:
 - Turn the crown until the required date appears.
 - Push the crown back into position I.
- Pos. III Setting the time**
- Pull the crown out to position III (watch stopped).
 - Turn the crown, until the current time is displayed (remember the 24-hour cycle).
 - Push the crown back into position I.

Cal. 774	Cal. 715Li
Cal. 775	
Cal. 704	Cal. 1005
Cal. 705	Cal. 1006
Cal. 784	Cal. 1009
Cal. 785	Cal. 1015
Cal. 714	Cal. 1016
Cal. 715	Cal. 1019

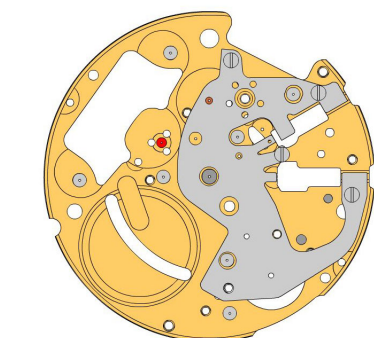


- Pos. I Position of rest (watch running)**
- Pos. II Quick-change correction for date**
Blocking time for the quick-change day correction is from approx. 9.30 pm and midnight.
- Pull the crown out to position II (watch still running).
 - Turn the crown until the current date appears.
 - Push the crown back into position I.
- Pos. III Setting the time**
- Pull the crown out to position III (watch stopped).
 - Turn the crown, until the current time is displayed (remember the 24-hour cycle).
 - Push the crown back into position I.

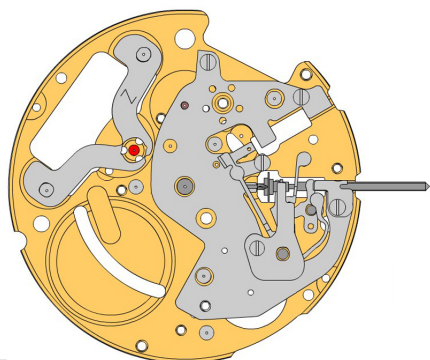
Cal. 7002.B
Cal. 7003.B
Cal. 7004.B



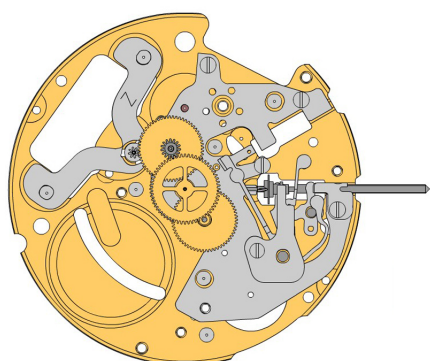
- Pos. I Position of rest (watch running)**
- Pos. II Quick-change correction for date**
The date can also be changed during the day-changing phase between approx. 8.00 pm and midnight. The date of the following day has to be set, because no automatic date change takes place at midnight.
- Pull the crown out to position II (watch still running).
 - Turn the crown until the current date appears.
 - Push the crown back into position I.
- Pos. III Setting the time**
- Pull the crown out to position III (watch stopped).
 - Turn the crown, until the current time is displayed (remember the 24-hour cycle).
 - Push the crown back into position I.



















A

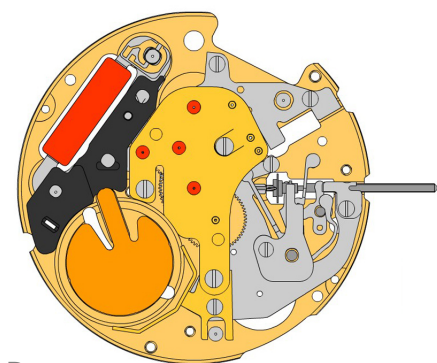


B

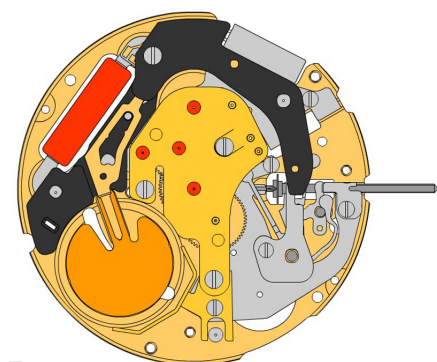


C

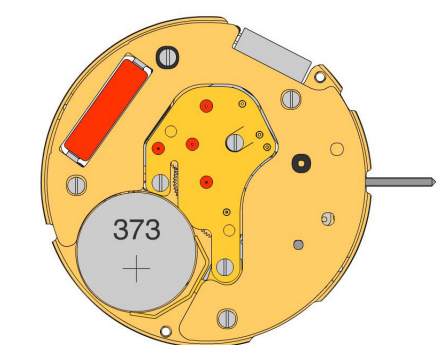
2000.628.G 1.		Main plate
2130.167.CO 2.		Setting mechanism cover Setting mechanism cover held by 3 screws 4000.321. Parts 2130.167.CO and 3004.188 must be exchanged together.
4000.321 3.		Screw
3017.057 4.		Setting lever
3015.074 5.		Yoke (3 positions) Tensioning the spring arm.
3001.042.FI 6.		Sliding pinion
3000.189.CO 7.		Setting stem
2020.166 8.		Yoke bridge Yoke bridge held by 1 screw 4000.328.
4000.328 9.		Screw
2130.199 10.		Stem maintaining plate Stem maintaining plate held by 1 screw 4000.312.
4000.312 11.		Screw
3622.042 12.		Stator Mark [Z] on stator.
3715.103.RK 13.		Rotor
3147.056.CO 14.		Intermediate wheel
3122.059.CO 15.		Third wheel
3136.160.CO 16.		Center second wheel (Aig.1)



D



E



F

2020.180.G
17.



Train wheel bridge
Train wheel bridge held by 3 screws 4000.279.

4000.279
18.



Screw

3601.117.G
19.



Battery clamp +
Bridle held by 1 screw 4000.244.

4000.244
20.



Screw

3621.060.RK
21.



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

3603.074
22.



Bridle (-) insulator

3603.075
23.



Battery insulator

3601.116
24.



Bridle -
Place Bridle as shown on graphics.

3612.181
25.



Electronic module
Electronic module held by 1 screw 4000.318.

4000.318
26.



Screw

2130.168.G.M01.6003B
27.



Electronic module cover
Electronic module cover held by 3 screws 4000.102. Electronic measurements may be realised now.

4000.102
28.

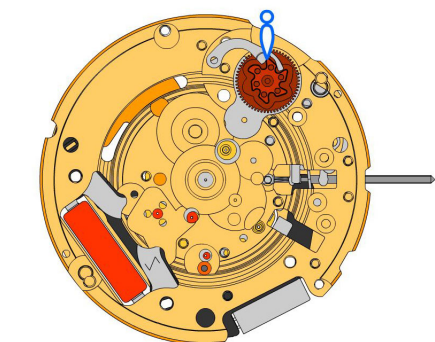


Screw

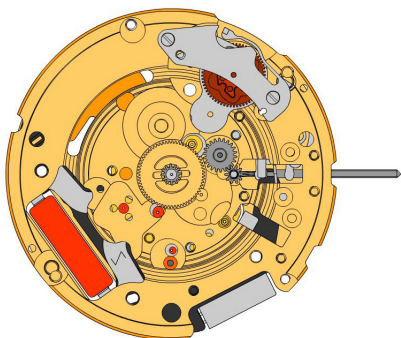
3600.031.HGF
29.



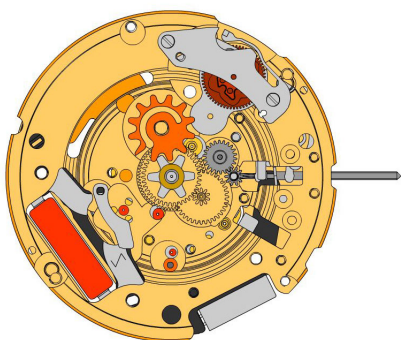
Battery 373






G













H

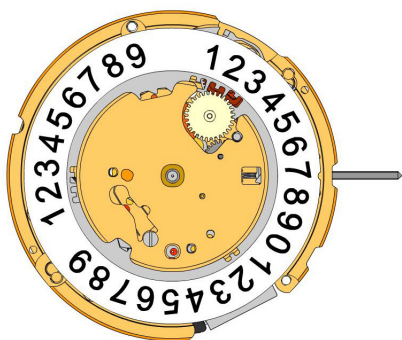


I

2000.628.G 30.		Main plate
3004.188 31.		Tens indicator driving wheel The short tooth of the tens indicator driving wheel must point to the center of the movement. Parts 2130.167.CO and 3004.188 must be exchanged together.
3500.060 32.		Tens jumper

2130.171 33.		Tens jumper maintaining plate Tens jumper maintaining plate held by 2 screws 4000.332. Tensioning the spring arm.
4000.332 34.		Screw
3004.182.FI 35.		Setting wheel
3004.183.FI 36.		Intermediate setting wheel
3305.305.CO 37.		Canon pinion with driver (Aig.1)

3007.073.CO 38.		Minute wheel
3301.271.CO 39.		Hour wheel (Aig.1)
3315.001 40.		Friction spring
3004.187 41.		Date indicator driving wheel
3500.061 42.		Date jumper



J

3504.217.AF.1.A
43.



Units indicator (standard)
Nick of the indicator at 3 o'clock.

3147.057
44.



Tens intermediate wheel

2130.169
45.



Date indicator maintaining plate
Date indicator maintaining plate held by 1 screw 4000.312

4000.312
46.

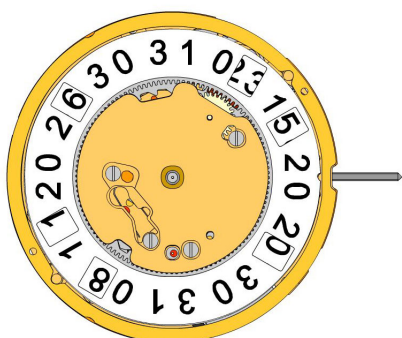


Screw

3905.070
47.



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



K

3504.218.AF.1.A
48.



Tens indicator (standard)
Nick of the indicator at 3 o'clock.

2130.170.G
49.



Date mechanism maintaining plate
Date mechanism maintaining plate held by 3 screws 4000.312.

4000.312
50.



Screw

3506.075.G
51.



Dial support

8200
52.



Moebius 8200

9014
53.



Moebius 9014

124
54.



Jismaa 124

9020
55.

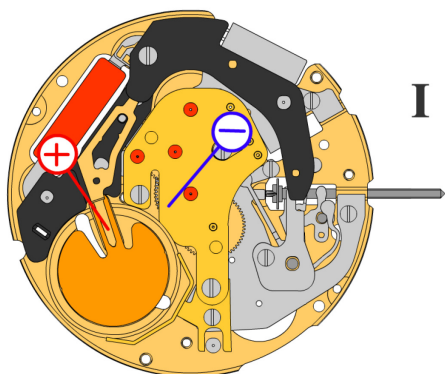


Moebius 9020



Battery **373**

Voltage **1.55 V**

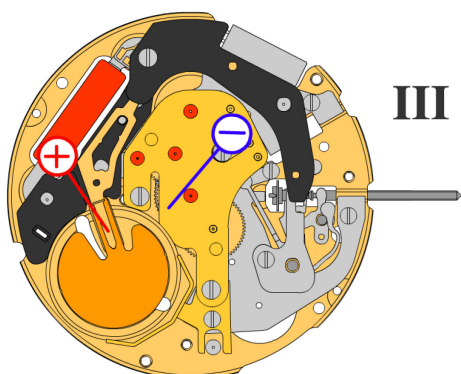


*Setting stem in position I, calendar not in gear,
60 s measuring interval for rate and consumption:*

Typical consumption **1.03 μ A**
Maximal consumption **1.85 μ A**

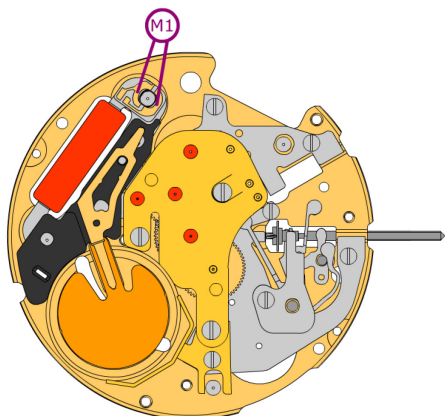
Rate **-10s/M. .. +20s/M.**

Lower working voltage limit **1.20 V**

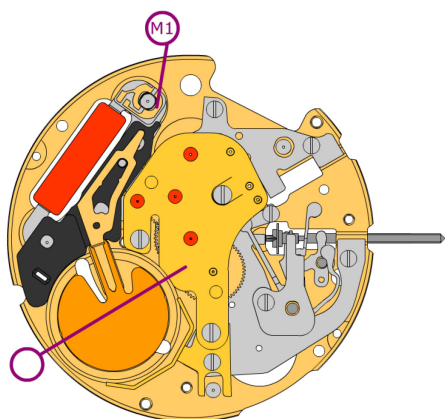


Setting stem in position III, 60 s measuring interval:

Typical consumption **0.10 μ A**
Maximal consumption **0.30 μ A**

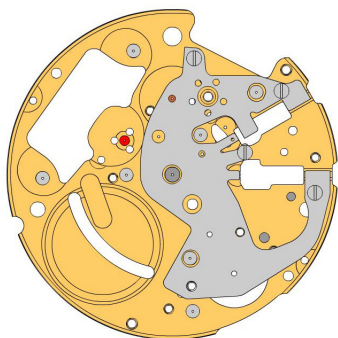


Coil resistance M1

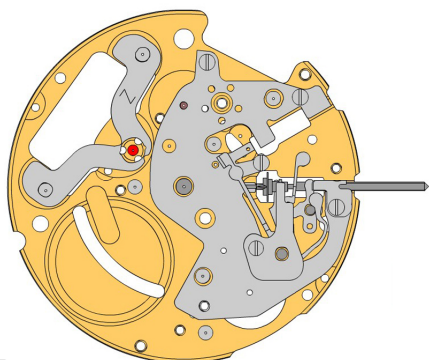
1.61 k Ω .. 1.81 k Ω


Coil isolation M1

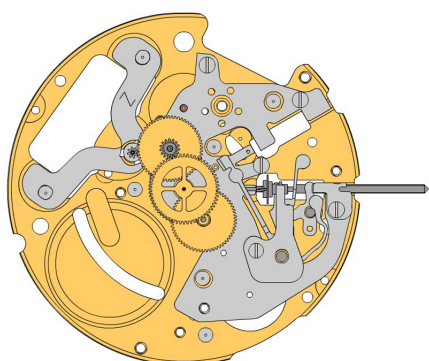
 ∞ k Ω



















A

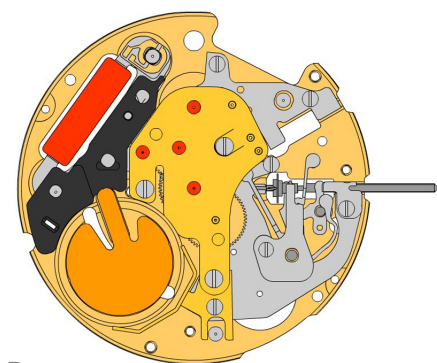


B

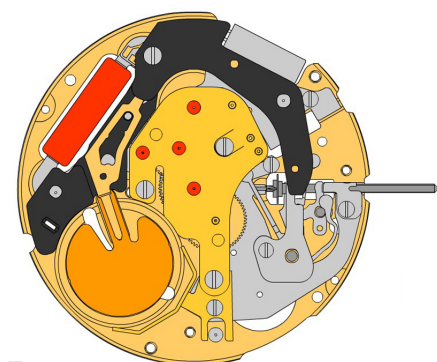


C

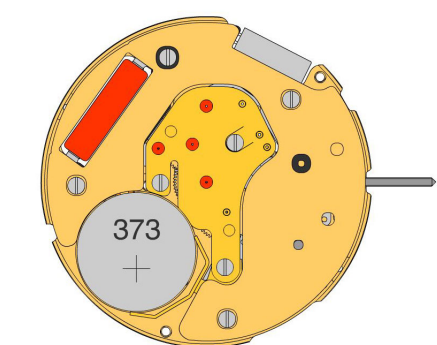
2000.628.G 1.		Main plate
2130.204.CO 2.		Setting mechanism cover Setting mechanism cover held by 3 screws 4000.321.
4000.321 3.		Screw
3017.057 4.		Setting lever
3015.074 5.		Yoke (3 positions) Tensioning the spring arm.
3001.042.FI 6.		Sliding pinion
3000.189.CO 7.		Setting stem
2020.166 8.		Yoke bridge Yoke bridge held by 1 screw 4000.328.
4000.328 9.		Screw
2130.199 10.		Stem maintaining plate Stem maintaining plate held by 1 screw 4000.312.
4000.312 11.		Screw
3622.042 12.		Stator Mark [Z] on stator.
3715.103.RK 13.		Rotor
3147.056.CO 14.		Intermediate wheel
3122.059.CO 15.		Third wheel
3136.160.CO 16.		Center second wheel (Aig.1)



D



E



F

2020.180.G
17.



Train wheel bridge
Train wheel bridge held by 3 screws 4000.279.

4000.279
18.



Screw

3601.117.G
19.



Battery clamp +
Bridle held by 1 screw 4000.244.

4000.244
20.



Screw

3621.060.RK
21.



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

3603.074
22.



Bridle (-) insulator

3603.075
23.



Battery insulator

3601.116
24.



Bridle -
Place Bridle as shown on graphics.

3612.181
25.



Electronic module
Electronic module held by 1 screw 4000.318.

4000.318
26.



Screw

2130.168.G.M01.6003B
27.



Electronic module cover
Electronic module cover held by 3 screws 4000.102. Electronic measurements may be realised now.

4000.102
28.

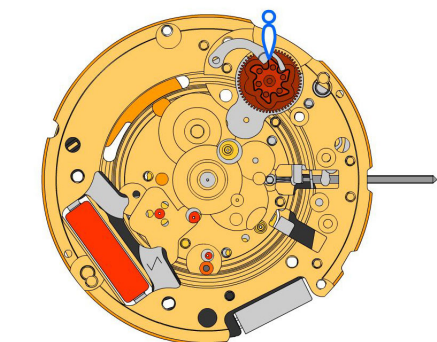


Screw

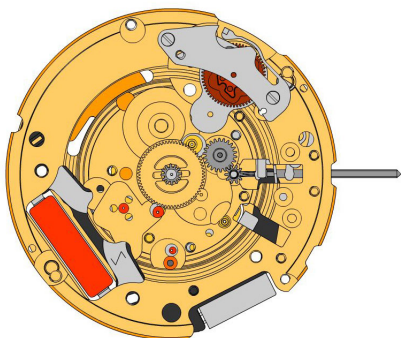
3600.031.HGF
29.



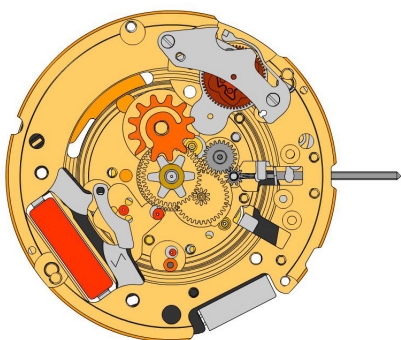
Battery 373






G













H

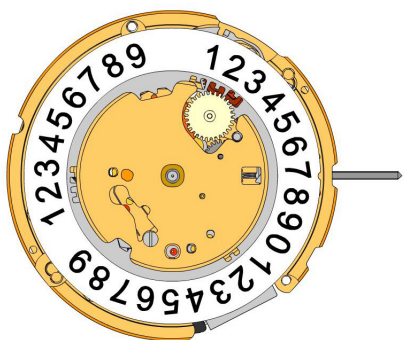


I

2000.628.G 30.		Main plate
3004.232 31.		Tens indicator driving wheel The short tooth of the tens indicator driving wheel must point to the center of the movement.
3500.060 32.		Tens jumper

2130.171 33.		Tens jumper maintaining plate Tens jumper maintaining plate held by 2 screws 4000.332. Tensioning the spring arm.
4000.332 34.		Screw
3004.182.FI 35.		Setting wheel
3004.183.FI 36.		Intermediate setting wheel
3305.305.CO 37.		Canon pinion with driver (Aig.1)

3007.073.CO 38.		Minute wheel
3301.271.CO 39.		Hour wheel (Aig.1)
3315.001 40.		Friction spring
3004.187 41.		Date indicator driving wheel
3500.061 42.		Date jumper



J

3504.217.AF.1.A
43. Units indicator (standard)
Nick of the indicator at 3 o'clock.



3147.057
44. Tens intermediate wheel



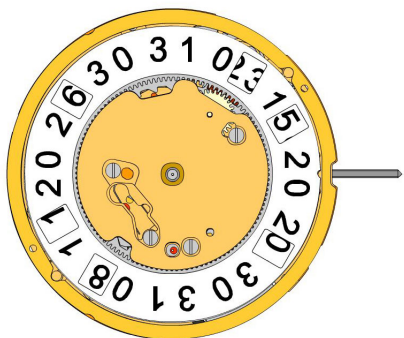
2130.169
45. Date indicator maintaining plate
Date indicator maintaining plate held by 1 screw 4000.312



4000.312
46. Screw



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



K

3504.218.AF.1.A
48. Tens indicator (standard)
Nick of the indicator at 3 o'clock.



2130.170.G
49. Date mechanism maintaining plate
Date mechanism maintaining plate held by 3 screws 4000.312.



4000.312
50. Screw



3506.075.G
51. Dial support



8200
52. Moebius 8200



9014
53. Moebius 9014

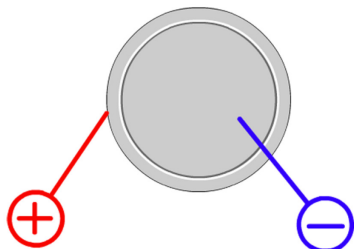


124
54. Jismaa 124



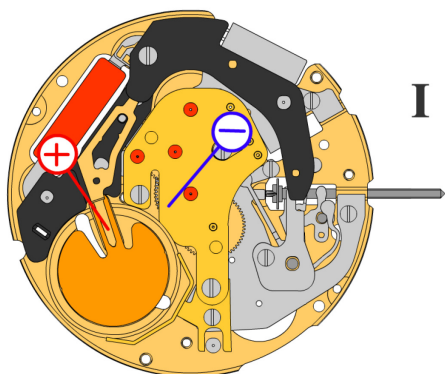
9020
55. Moebius 9020





Battery **373**

Voltage **1.55 V**

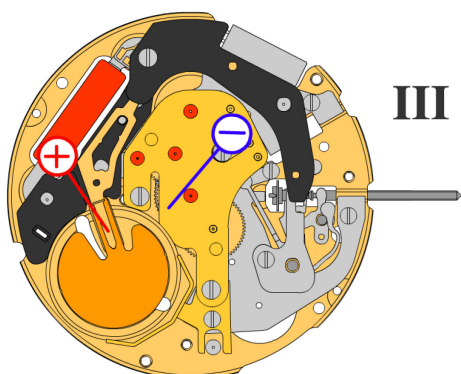


*Setting stem in position I, calendar not in gear,
60 s measuring interval for rate and consumption:*

Typical consumption **1.03 μ A**
Maximal consumption **1.85 μ A**

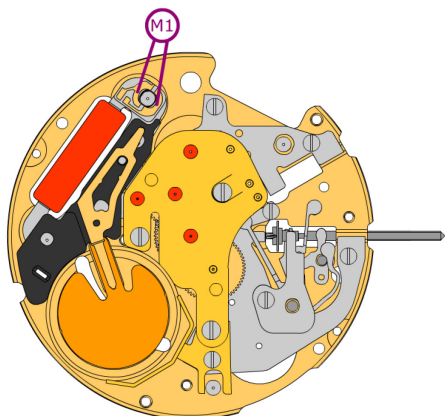
Rate **-10s/M. .. +20s/M.**

Lower working voltage limit **1.20 V**

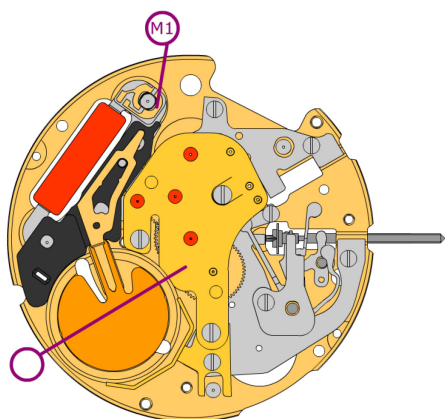


Setting stem in position III, 60 s measuring interval:

Typical consumption **0.10 μ A**
Maximal consumption **0.30 μ A**

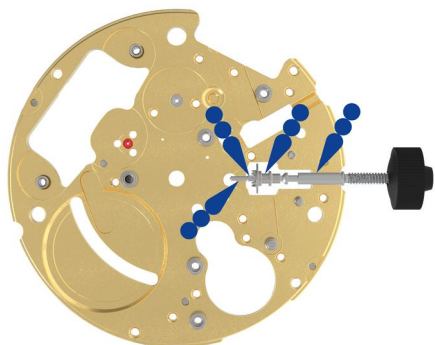


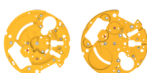



Coil resistance M1

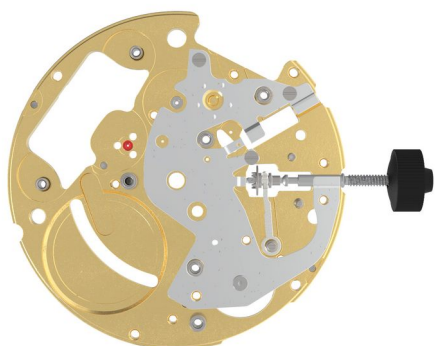
1.61 k Ω .. 1.81 k Ω







Coil isolation M1

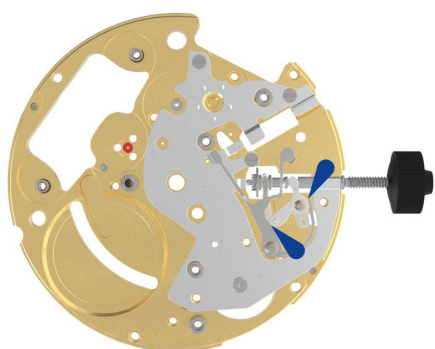
 ∞ k Ω



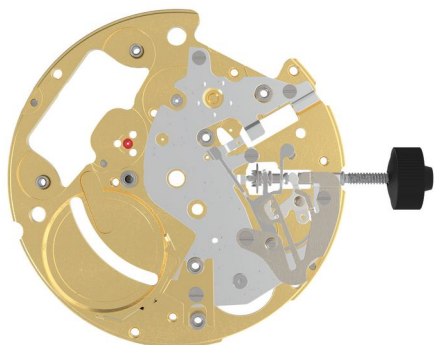
- | | | | |
|---|---|-------------|--------------------|
| 1 |  | 2000.664.G | Main plate B (KIs) |
| 2 |  | 3000.189.CO | Working stem |
| 3 |  | 3001.068.FI | Sliding pinion B |
| 4 |  | 9020 | Moebius 9020 |





- | | | | |
|---|---|-------------|-------------------------|
| 5 |  | 2130.204.CO | Setting mechanism cover |
| 6 |  | 4000.321 | Screw |
| 7 |  | 4000.321 | Screw |
| 8 |  | 4000.321 | Screw |
| 9 |  | 3015.083 | Bottom yoke |




- | | | | |
|----|---|-------------|---------------|
| 10 |  | 3017.056.CO | Setting lever |
| 11 |  | 3015.082 | Yoke |
| 12 |  | 8200 | Moebius 8200 |




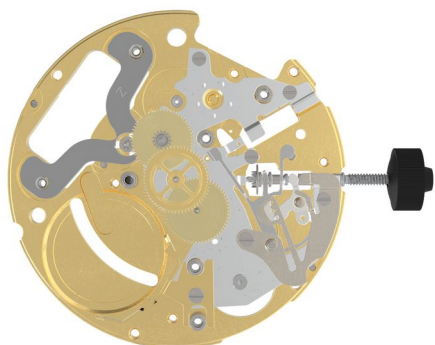
13  3905.069 Setting lever jumper
Tensioning the spring arm.


14  4000.312 Screw


15  4000.328 Screw

16  3601.117.G Battery clamp (+)


17  4000.244 Screw



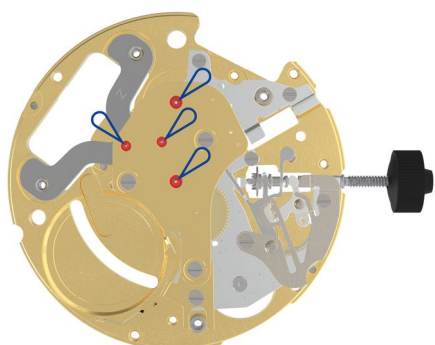
18  3622.042 Stator


19  3715.103.RK Rotor


20  3147.056.CO Intermediate wheel


21  3122.086.CO Third wheel


22  3136.160.CO Center second wheel (Aig.)



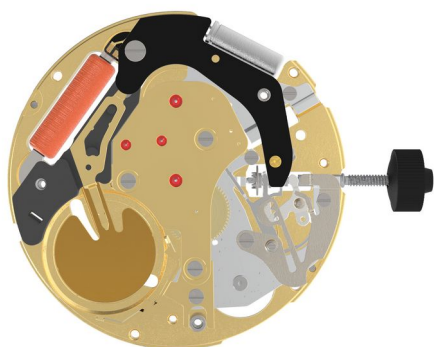
23  2020.180.G Train wheel bridge







24  4000.279 Screw

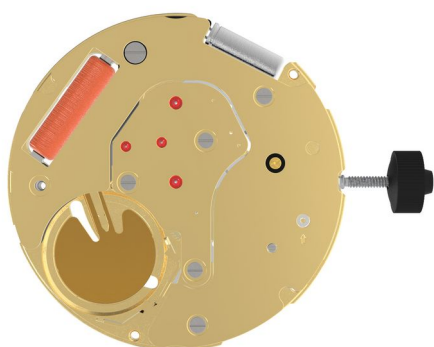
25  4000.279 Screw




26  4000.279 Screw

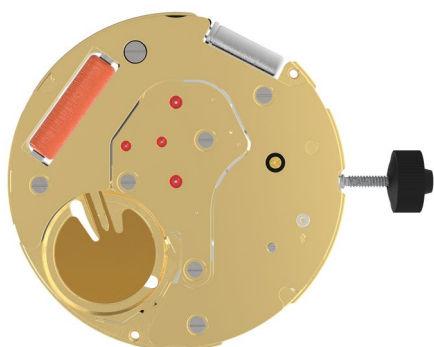
27  9014 Moebius 9014




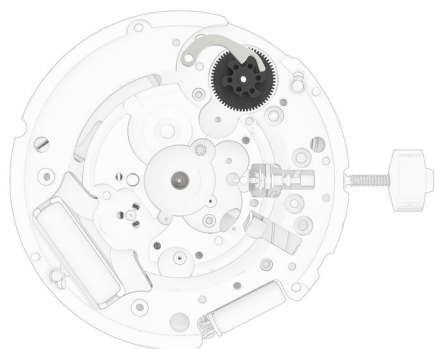
- | | | | |
|---|---|-------------|----------------------|
| 28 |  | 3621.060.RK | Coil |
| Attention: Please hold the coil only on the grey coil core. | | | |
| 29 |  | 3603.075 | Battery insulator |
| 30 |  | 3603.074 | Bridle (-) insulator |
| 31 |  | 3601.116 | Bridle - |
| 32 |  | 3612.270.RK | Electronic module |
| 33 |  | 4000.318 | Screw |







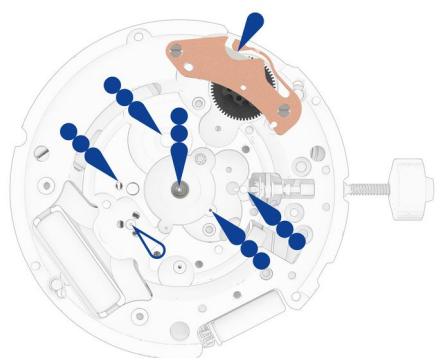
- | | | | |
|----|---|----------------------|-------------------------|
| 34 |  | 2130.168.G.M01.6003B | Electronic module cover |
| 35 |  | 4000.102 | Screw |
| 36 |  | 4000.102 | Screw |







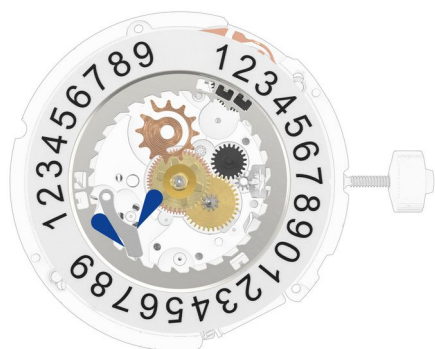
- | | | | |
|----|---|----------|-------|
| 37 |  | 4000.102 | Screw |
|----|---|----------|-------|










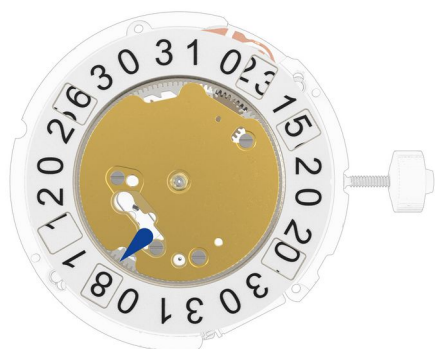
- | | | | |
|----|---|--------------|------------------------------|
| 38 |  | 3600.031.HGF | Battery 373 (Ø 9.45 x 1.65) |
| 39 |  | 3903.061 | Center tube |
| 40 |  | 3004.232 | Tens indicator driving wheel |
| 41 |  | 3500.060 | Tens jumper |
















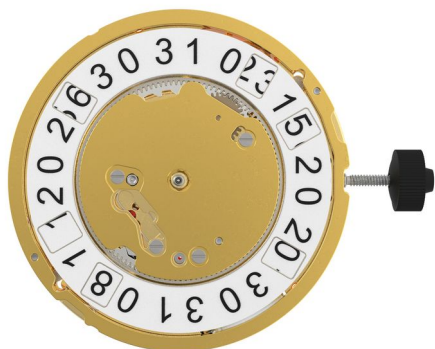
- | | | | |
|----|---|----------------|--|
| 42 |  | 2130.171 | Tens jumper maintaining plate |
| 43 |  | 4000.332 | Screw |
| 44 |  | 4000.332 | Screw |
| 45 |  | 8200 9014 9020 | Moebius 8200 Moebius 9014 Moebius 9020 |



- | | | | |
|----|---|-----------------|----------------------------|
| 46 |  | 3004.182.FI | Setting wheel B |
| 47 |  | 3004.183.FI | Intermediate setting wheel |
| 48 |  | 3305.305.CO | Cannon pinion (Aig.) |
| 49 |  | 3007.073.CO | Minute wheel |
| 50 |  | 3301.271.CO | Hour wheel (Aig.) |
| 51 |  | 3315.001 | Friction spring |
| 52 |  | 3504.217.AF.1.A | Units indicator (T3, G12) |



53		3004.187	Date indicator driving wheel
54		3500.061	Date jumper B
55		8200	Moebius 8200
56		2130.169	Date indicator maintaining plate
57		4000.312	Screw
58		3504.218.AF.1.A	Tens indicator (T3, G12)
59		3905.070 Insert the date jumper spring in the previous opening.	Date jumper spring
60		3147.057	Tens intermediate wheel
61		2130.170.G	Date mechanism maintaining plate
62		4000.312	Screw
63		4000.312	Screw
64		4000.312	Screw
65		8200	Moebius 8200



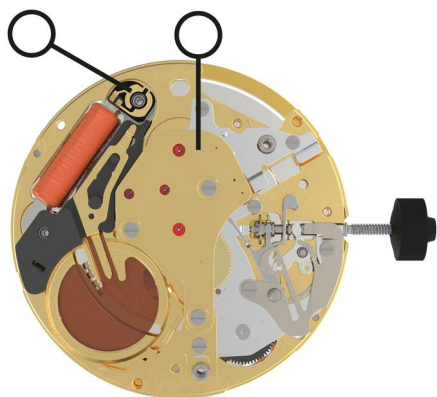
66



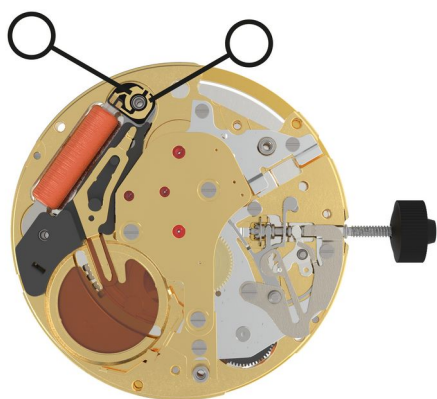
3506.075.G

Dial support

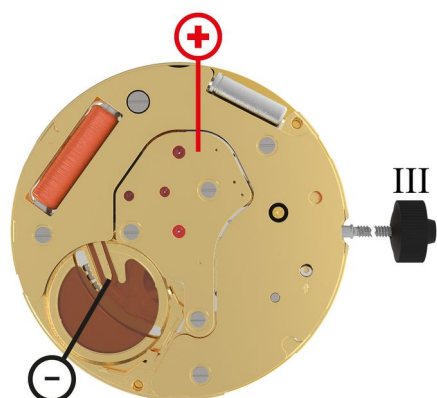
Measurement



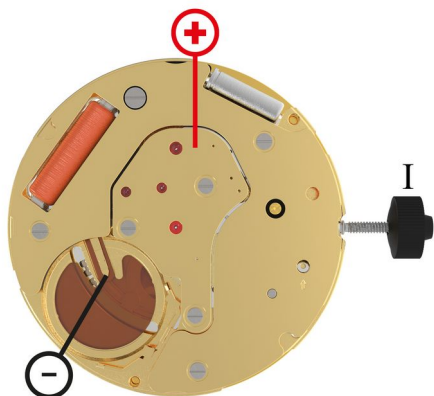
Coil insulation
Infinite



Coil resistance movement
(min./max.) 1610 - 1810 Ohm



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



Lower working voltage limit

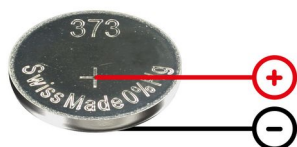
<1.20 V

60s measuring interval

-10 .. +20s/mth

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

(typ./max.) 1.03 / 1.85 μ A



Voltage

typ 1.5V