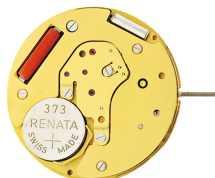


## Caliber 6004.B – 11½"



### Product Specifications

Analog quartz movement

Line xtratech

Caliber 6004.B

Size 11½"

Version Swiss Made 5 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
- Small second
- 2 hands

# Quartz Movements

## Multifunctions

### RONDA xtratech

## Caliber 6004.B – 11½"

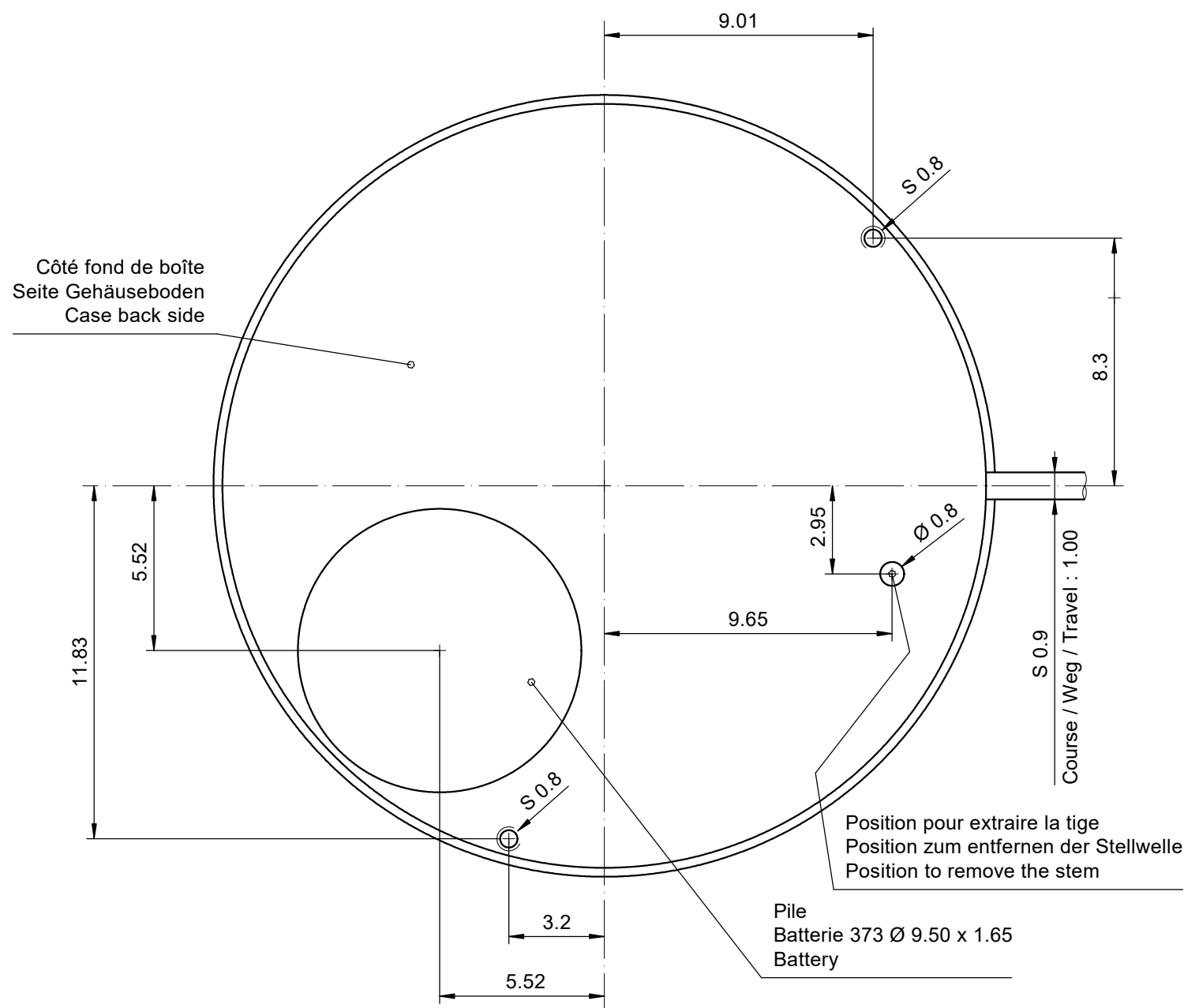
### Technical Specifications

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

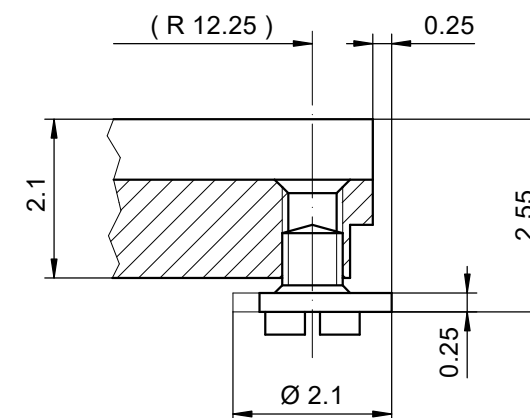


### Battery Specifications

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	1.85 µA (Date Mechanism not in Gear)



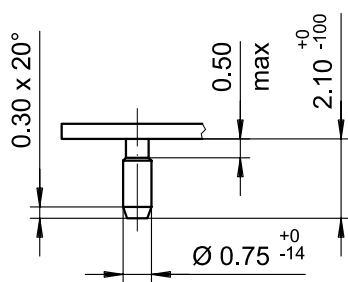
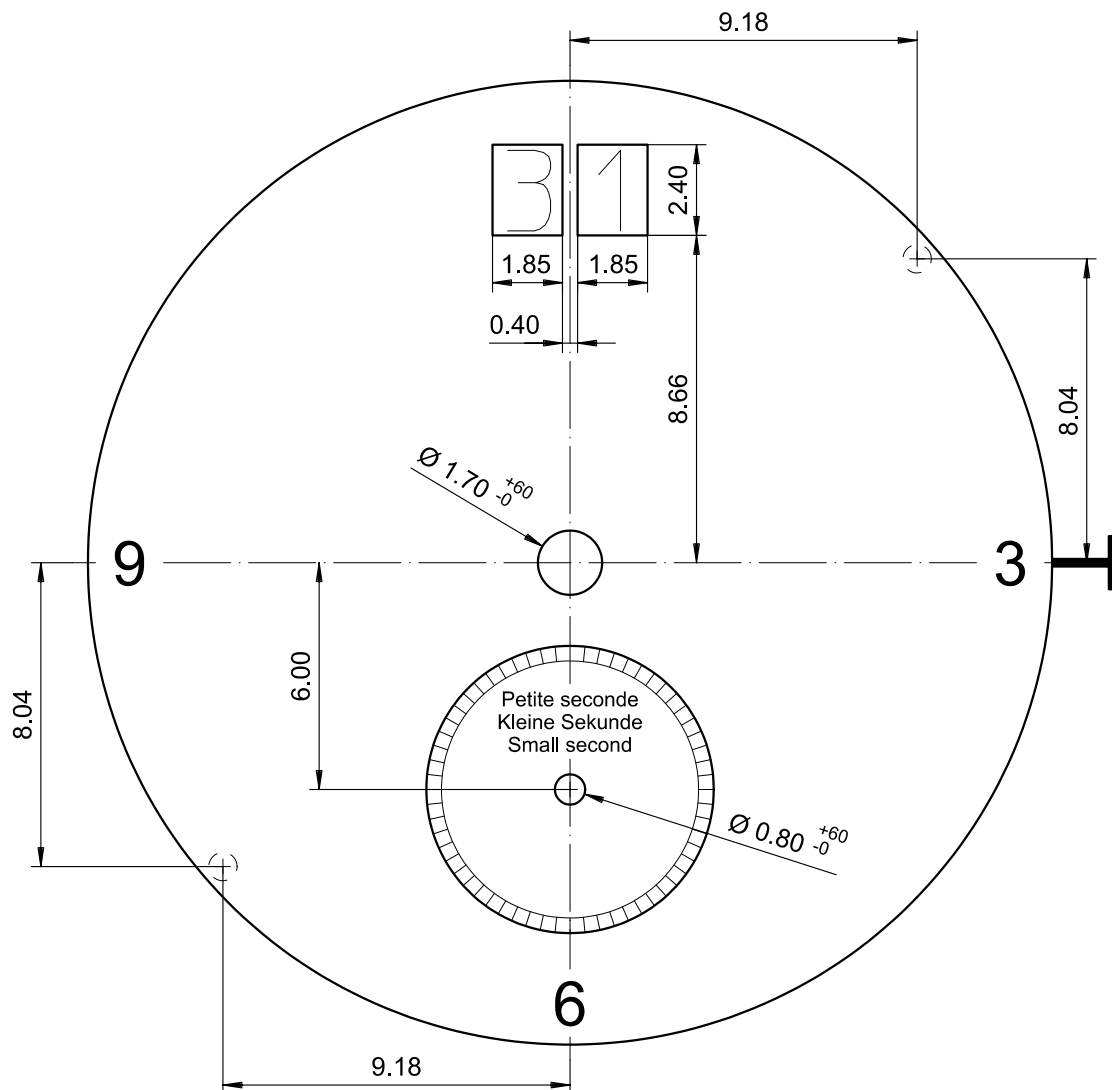
Vis No. :  
Schraube Nr.: 4000.237  
Screw No. :



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

RONDA 6004.B

Issued	11.04.2007	f15223
Modified	31.08.2020	jp5226
Released	YES	
Mod. No.	42691	
Tolerance	±20 µm	
Scale	10 : 1	Page 1/1 A3
<p>Sous réserve de modifications  Aenderungen vorbehalten  Modifications reserved</p>		
No.	5000.337	05



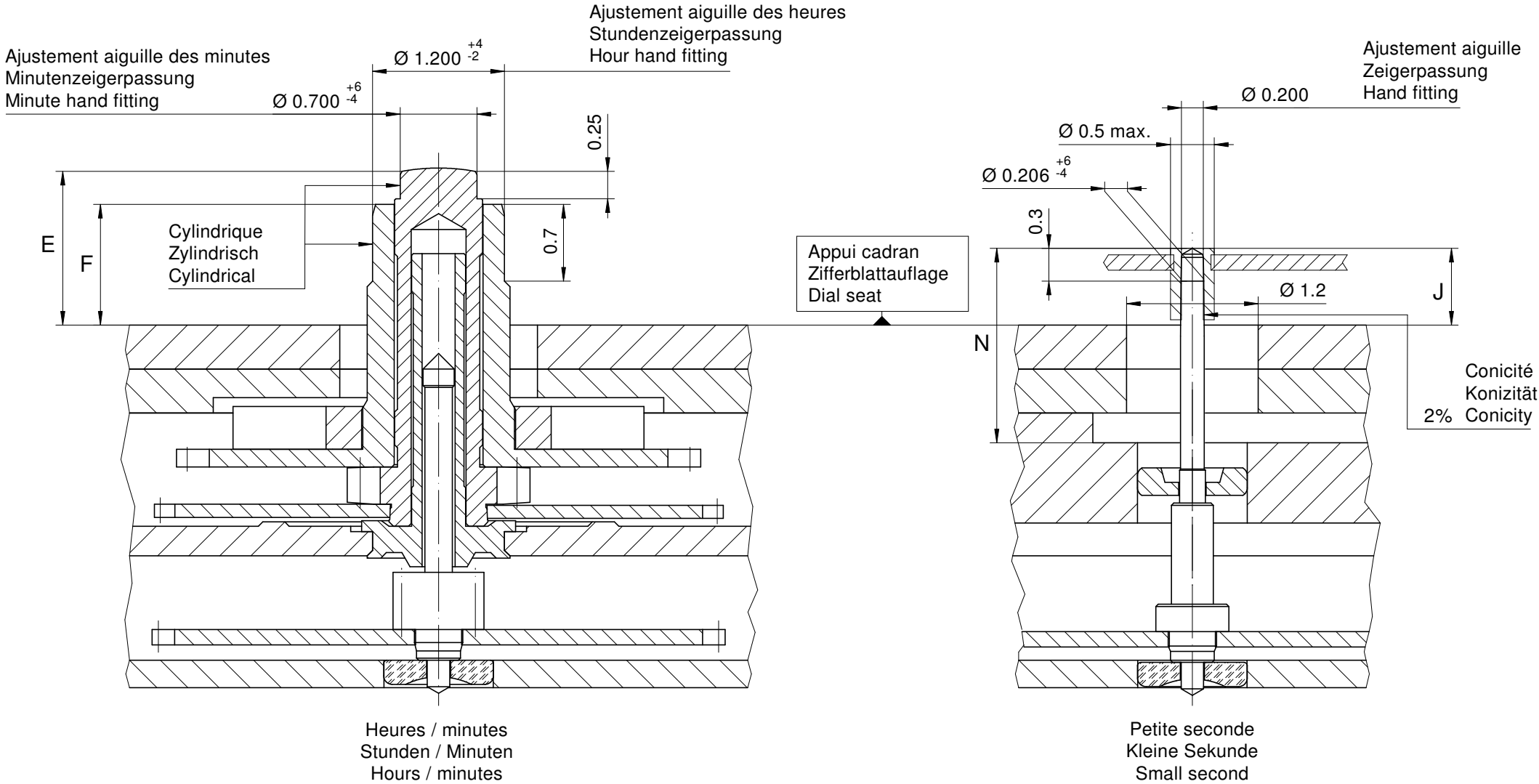
Tige	Date
Stellw.	Datum
Stem	Date
03H	12H

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

<div>Cadran</div> <div>Zifferblatt</div> <div>Dial</div> <div>11½"</div>		Issued	06 Mai 2004	mg
		Modified	21 Apr.2008 ÄA 4553	fl
		Released	YES	
		Tolerance	+/- 20 µm	
		Scale	5 : 1 (A4V)	
RONDA	6004.B	Sous réserve de modifications Änderungen vorbehalten Modifications reserved		
		No.	5010.791	01

11 1/2"





Aiguillages Zeigerwerkhöhe Hand fitting height				
Dépassement Höhe über Zifferblattaufage Height over dial seat				
No	Chaussée Minutenrohr Cannon-pinion	Roue des heures Stundenrad Hour wheel	Petite seconde Kleine Sekunde Small second	
	E	F	J	N
1	1.40	1.10	0.70	1.75
2	1.60	1.30	0.90	1.95

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 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		
1	1.00	0.70	0.25		0.15
2	1.20	0.90	0.45		0.15

		Aig. des minutes Minutenzeiger Minute hand	Aig. des heures Stundenzeiger Hour hand	Aig. petite secondes Kleine Sekundenzeiger Small second hand	Lors de la pose d'aiguilles, le mouvement doit être soutenu. Beim Zeigersetzen muss das Werk abgestützt werden. The movement needs to be supported for hand setting.
mg	max.	30	30	10	Masse / Masse / Weight *
µNm	max.	0.80	0.80	0.05	Balourd / Unwucht / Unbalance *
gmm <sup>2</sup>	max.	-	-	0.4	Inertie / Massenträgheit / Inertia *
N	max.	40	40	30	Force de chassage / Aufpresskraft / Force

Aiguillages Zeigerwerkhöhen 11½" Hand fitting heights		Issued	02 Sep 2005	fl
		Modified	15 Okt 2014 ÄA 13275	dh
		Released	Yes	
		Tolerance	µm	
		Scale	20 : 1 (A3H)	
RONDA 6004.B		Sous réserve de modifications Änderungen vorbehalten Modifications reserved		
		No.	3316.099	10

\* 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)

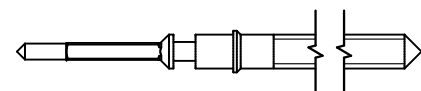
No. d'article Artikelnummer Part number	L	L1	L2	L3	S	D
3000.189.CO	19.30	10.57	23.37	10.15	0.90	1.10



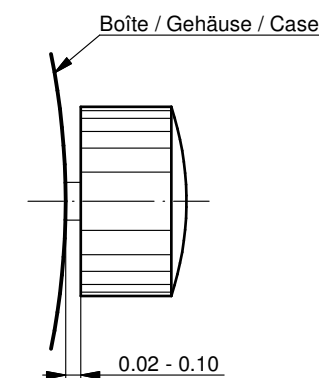
Couleur de la couronne Kronenfarbe Crown color	marron kastanienbraun chestnut
Code	UN 8018

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

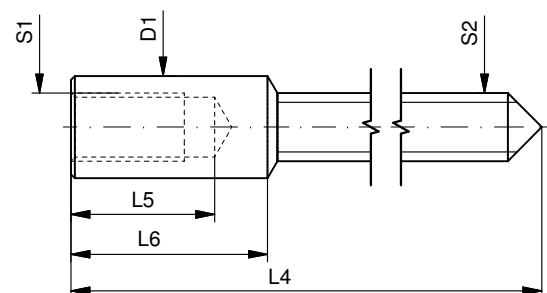


Couronne vissée  
Geschraubte Krone  
Screwed crown

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 hands: <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 slimtech

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

RONDA normtech

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

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

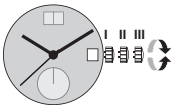
Cal. 1005 / 1006 / 1009 / 1015 / 1016 / 1019:  
Battery type: 341/SR714SW

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

Cal. 715Li:  
Battery type: CR 2016

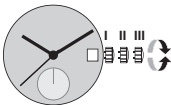
Precision: +20/-10 seconds per month

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



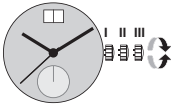
- Pos. I Position of rest (watch running)**
- Pos. II Quick-change correction for date**  
*The date can also be corrected during the day-changing phase between 10 pm and midnight. The date of the following day has to be set, because no automatic date change takes place at midnight.*
- Pull the crown 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

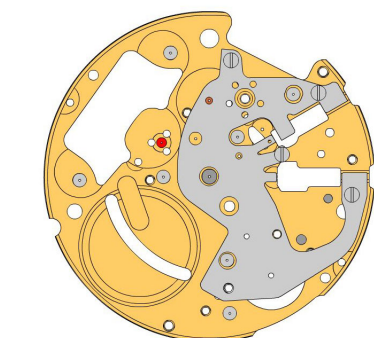


- Pos. I Position of rest (watch running)**
- Pos. II Quick-change correction for date**  
*Blocking time for the quick-change day correction is from approx. 9.30 pm and midnight.*
- Pull the crown out to position II (watch still running).
  - Turn the crown until the current date appears.
  - Push the 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.

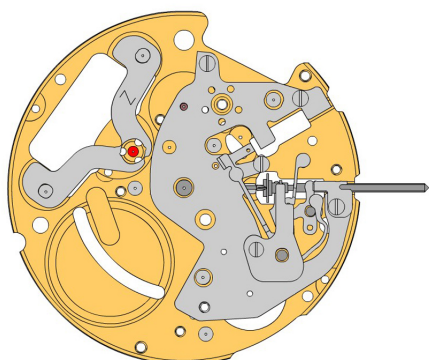
Cal. 7002.B
Cal. 7003.B
Cal. 7004.B



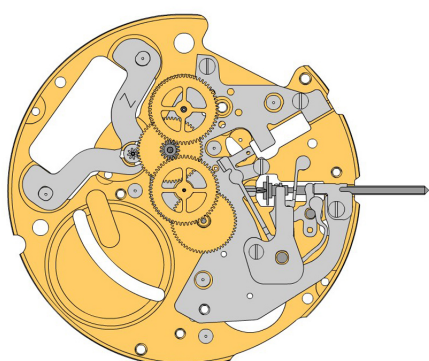
- Pos. I Position of rest (watch running)**
- Pos. II Quick-change correction for date**  
*The date can also be changed during the day-changing phase between approx. 8.00 pm and midnight. The date of the following day has to be set, because no automatic date change takes place at midnight.*
- Pull the 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

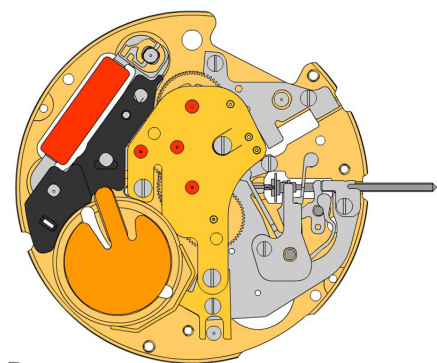


B

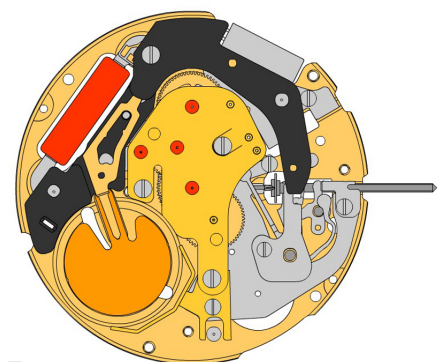


C

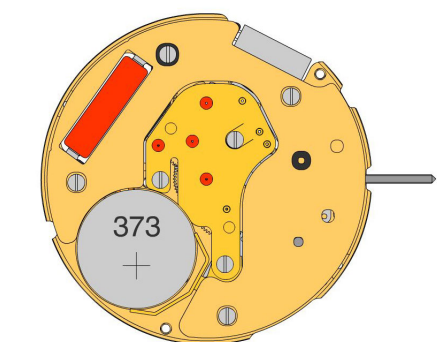
2000.628.G 1.		Main plate
2130.167.CO 2.		Setting mechanism cover Setting mechanism cover held by 3 screws 4000.321. Parts 2130.167.CO and 3004.188 must be exchanged together.
4000.321 3.		Screw
3017.057 4.		Setting lever
3015.074 5.		Yoke (3 positions) Tensioning the spring arm.
3001.042.FI 6.		Sliding pinion
3000.189.CO 7.		Setting stem
2020.166 8.		Yoke bridge Yoke bridge held by 1 screw 4000.228.
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
3136.163.CO 16.		Center second wheel short
3136.167.CO 17.		Small second wheel (Aig.1)



D



E



F

2020.180.G  
18.



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

4000.279  
19.



**Screw**

3601.117.G  
20.



**Battery clamp +**  
Lateral bridle held by 1 screw 4000.244.

4000.244  
21.



**Screw**

3621.060.RK  
22.



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

3603.074  
23.



**Bridle (-) insulator**

3603.075  
24.



**Battery insulator**

3601.116  
25.



**Bridle -**  
Place bridle as shown on graphics.

3612.181  
26.



**Electronic module**  
Electronic module held by 1 screw 4000.318. Electronic measurements may be realised now.

4000.318  
27.



**Screw**

2130.168.G.M01.6004B  
28.



**Electronic module cover**  
Electronic module cover held by 3 screws 4000.102.

4000.102  
29.

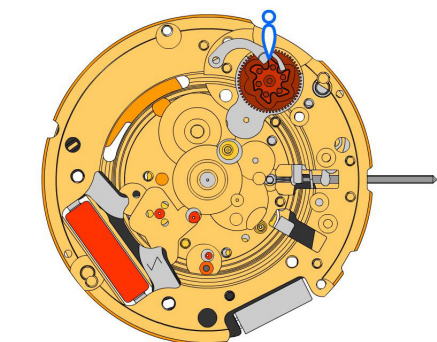


**Screw**

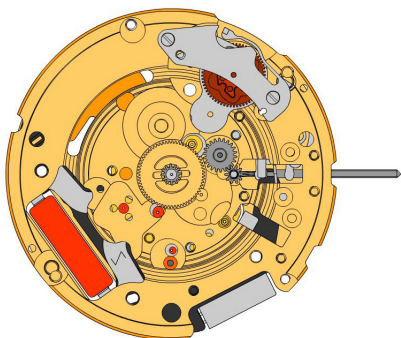
3600.031.HGF  
30.



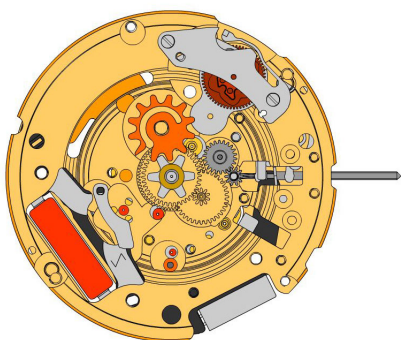
**Battery 373**






G













H



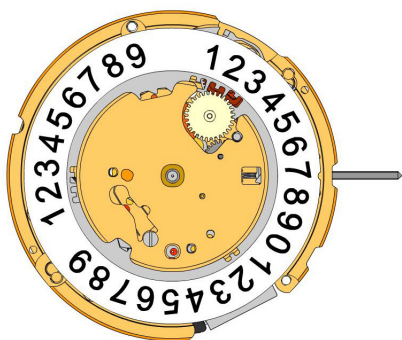
I

2000.628.G 31.		Main plate
3004.188 32.		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 33.		Tens jumper

2130.171 34.		Tens jumper maintaining plate Tens jumper maintaining plate held by 2 screws 4000.332. Tensioning the spring arm.
4000.332 35.		Screw
3004.182.FI 36.		Setting wheel
3004.183.FI 37.		Intermediate setting wheel
3305.307.CO 38.		Canon pinion with driver (Aig.1, closed)

3007.073.CO 39.		Minute wheel
3301.272.CO 40.		Hour wheel (Aig.1)
3315.001 41.		Friction spring
3004.187 42.		Date indicator driving wheel
3500.061 43.		Date jumper





J

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



3147.057  
45. Tens intermediate wheel



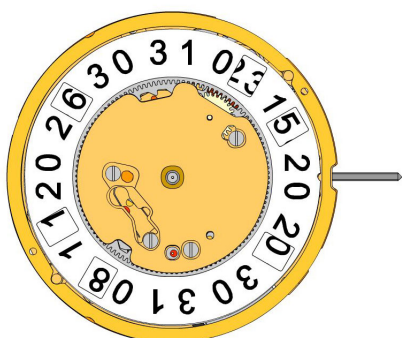
2130.169  
46. Date indicator maintaining plate  
Date indicator maintaining plate held by 1 screw 4000.312.



4000.312  
47. Screw



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



K

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



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



4000.312  
51. Screw



3506.075.G  
52. Dial support



8200  
53. Moebius 8200



9014  
54. Moebius 9014



124  
55. Jismaa 124



9020  
56. Moebius 9020

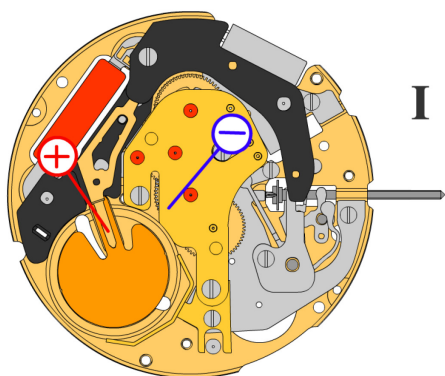






Battery **373**

Voltage **1.55 V**

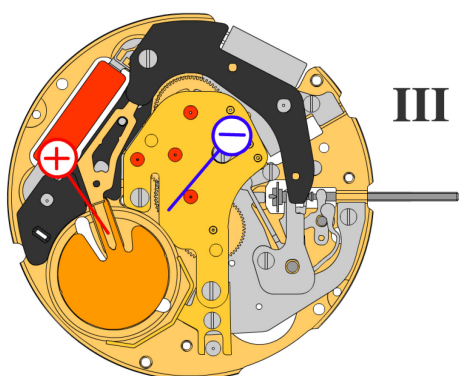


*Setting stem in position I, calendar not in gear,  
60 s measuring interval for rate and consumption:*

Typical consumption **1.03  $\mu$ A**  
Maximal consumption **1.85  $\mu$ A**

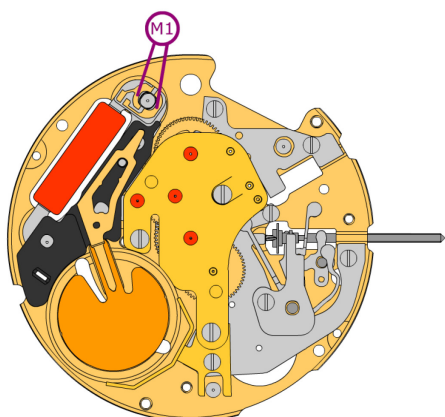
Rate **-10s/M. .. +20s/M.**

Lower working voltage limit **1.20 V**

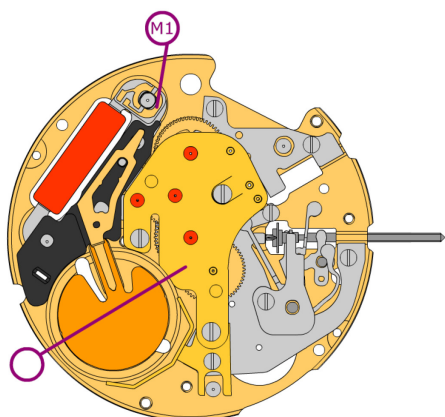


*Setting stem in position III, 60 s measuring interval:*

Typical consumption **0.10  $\mu$ A**  
Maximal consumption **0.30  $\mu$ A**

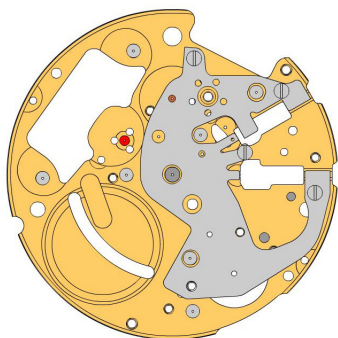


Coil resistance M1

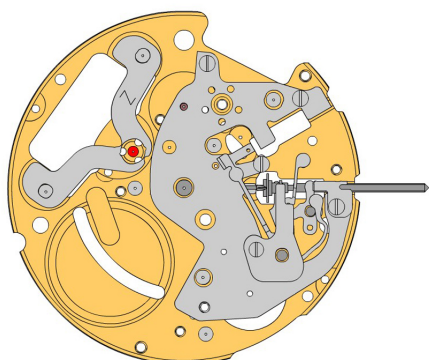
**1.61 k $\Omega$  .. 1.81 k $\Omega$** 


Coil isolation M1

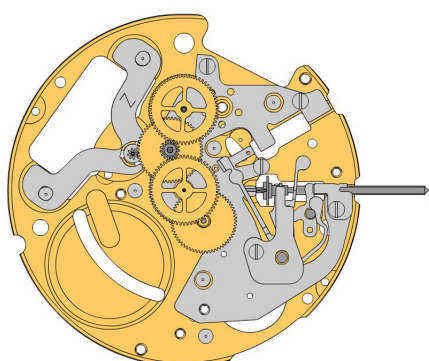
 **$\infty$  k $\Omega$**






A

















B

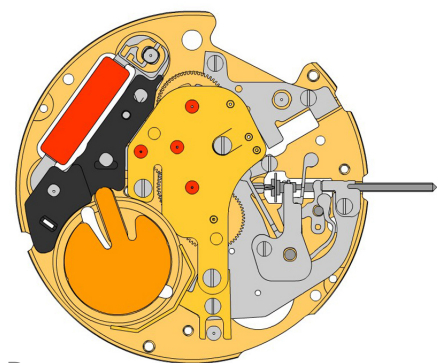


C

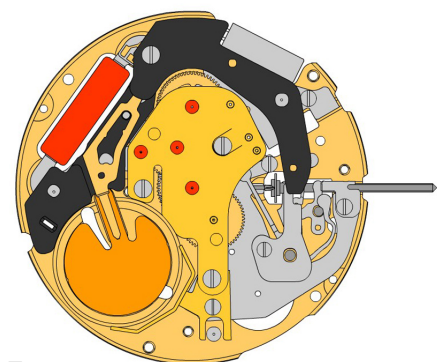
2000.628.G 1.		Main plate
2130.204.CO 2.		Setting mechanism cover Setting mechanism cover held by 3 screws 4000.321.
4000.321 3.		Screw

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 4000.228.
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.

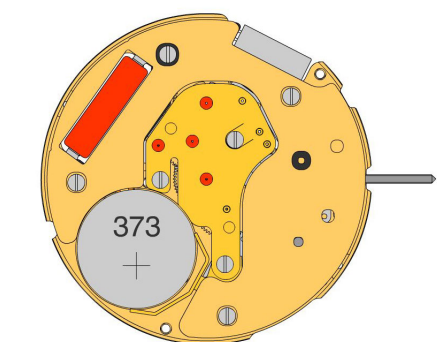
3715.103.RK 13.		Rotor
3147.056.CO 14.		Intermediate wheel
3122.059.CO 15.		Third wheel
3136.163.CO 16.		Center second wheel short
3136.167.CO 17.		Small second wheel (Aig.1)



D



E



F

2020.180.G  
18.



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

4000.279  
19.



**Screw**

3601.117.G  
20.



**Battery clamp +**  
Lateral bridle held by 1 screw 4000.244.

4000.244  
21.



**Screw**

3621.060.RK  
22.



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

3603.074  
23.



**Bridle (-) insulator**

3603.075  
24.



**Battery insulator**

3601.116  
25.



**Bridle -**  
Place bridle as shown on graphics.

3612.181  
26.



**Electronic module**  
Electronic module held by 1 screw 4000.318. Electronic measurements may be realised now.

4000.318  
27.



**Screw**

2130.168.G.M01.6004B  
28.



**Electronic module cover**  
Electronic module cover held by 3 screws 4000.102.

4000.102  
29.

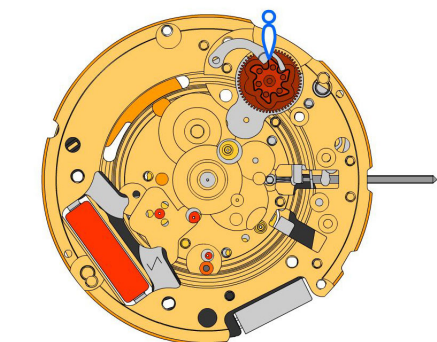


**Screw**

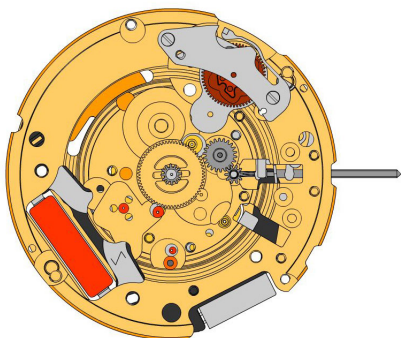
3600.031.HGF  
30.



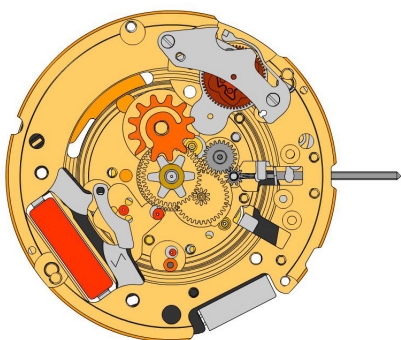
**Battery 373**
















G

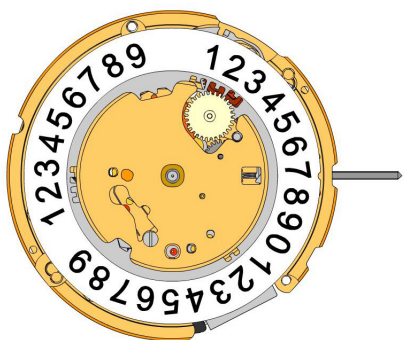


H



I

2000.628.G 31.		Main plate
3004.232 32.		Tens indicator driving wheel The short tooth of the tens indicator driving wheel must point to the center of the movement.
3500.060 33.		Tens jumper
2130.171 34.		Tens jumper maintaining plate Tens jumper maintaining plate held by 2 screws 4000.332. Tensioning the spring arm.
4000.332 35.		Screw
3004.182.FI 36.		Setting wheel
3004.183.FI 37.		Intermediate setting wheel
3305.307.CO 38.		Canon pinion with driver (Aig.1, closed)
3007.073.CO 39.		Minute wheel
3301.272.CO 40.		Hour wheel (Aig.1)
3315.001 41.		Friction spring
3004.187 42.		Date indicator driving wheel
3500.061 43.		Date jumper



J

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



3147.057  
45. Tens intermediate wheel



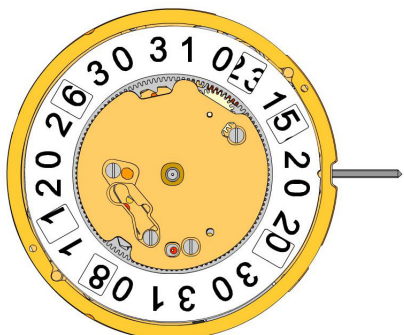
2130.169  
46. Date indicator maintaining plate  
Date indicator maintaining plate held by 1 screw 4000.312.



4000.312  
47. Screw



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



K

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



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



4000.312  
51. Screw



3506.075.G  
52. Dial support



8200  
53. Moebius 8200



9014  
54. Moebius 9014



124  
55. Jismaa 124



9020  
56. Moebius 9020

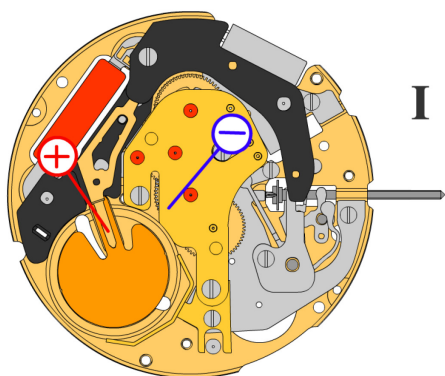






Battery **373**

Voltage **1.55 V**

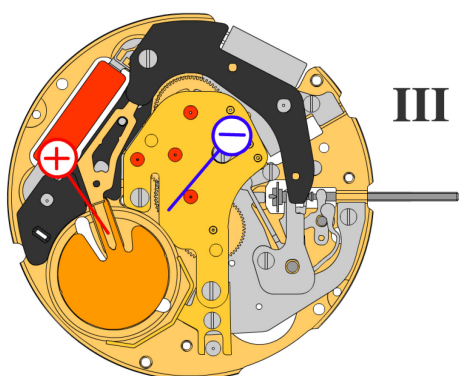


*Setting stem in position I, calendar not in gear,  
60 s measuring interval for rate and consumption:*

Typical consumption **1.03  $\mu$ A**  
Maximal consumption **1.85  $\mu$ A**

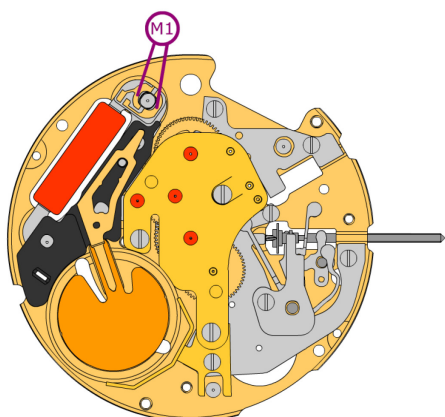
Rate **-10s/M. .. +20s/M.**

Lower working voltage limit **1.20 V**

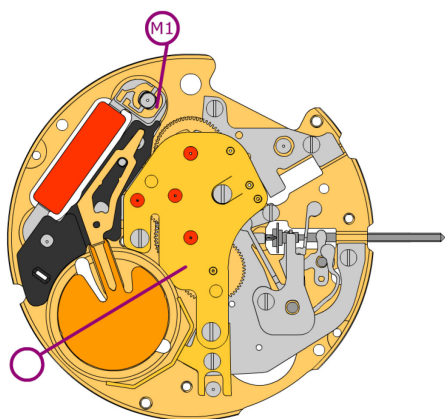


*Setting stem in position III, 60 s measuring interval:*

Typical consumption **0.10  $\mu$ A**  
Maximal consumption **0.30  $\mu$ A**



Coil resistance M1

**1.61 k $\Omega$  .. 1.81 k $\Omega$** 


Coil isolation M1

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