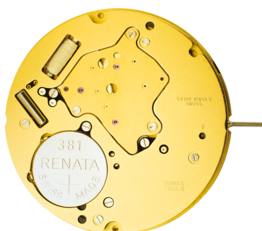
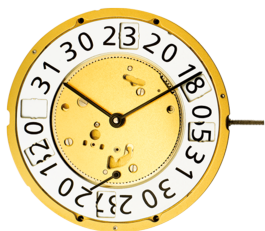


Caliber 7004.B – 15'''



Product Specifications

Analog quartz movement

Line xtratech

Caliber 7004.B

Size 15'''

Version Swiss Made 6 Jewels / gold plated EOL

Standard battery life 48 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 7004.B – 15"

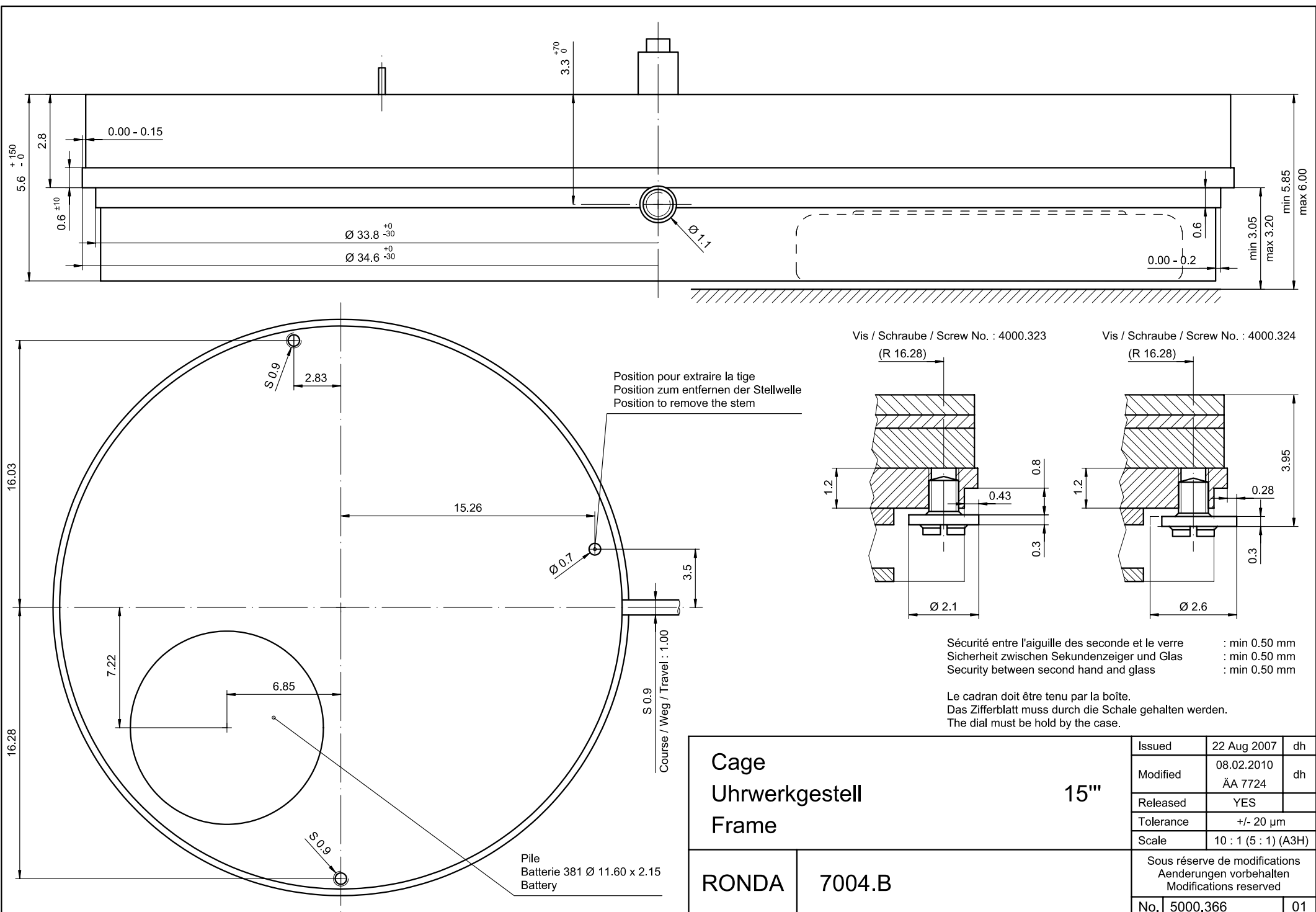
Technical Specifications

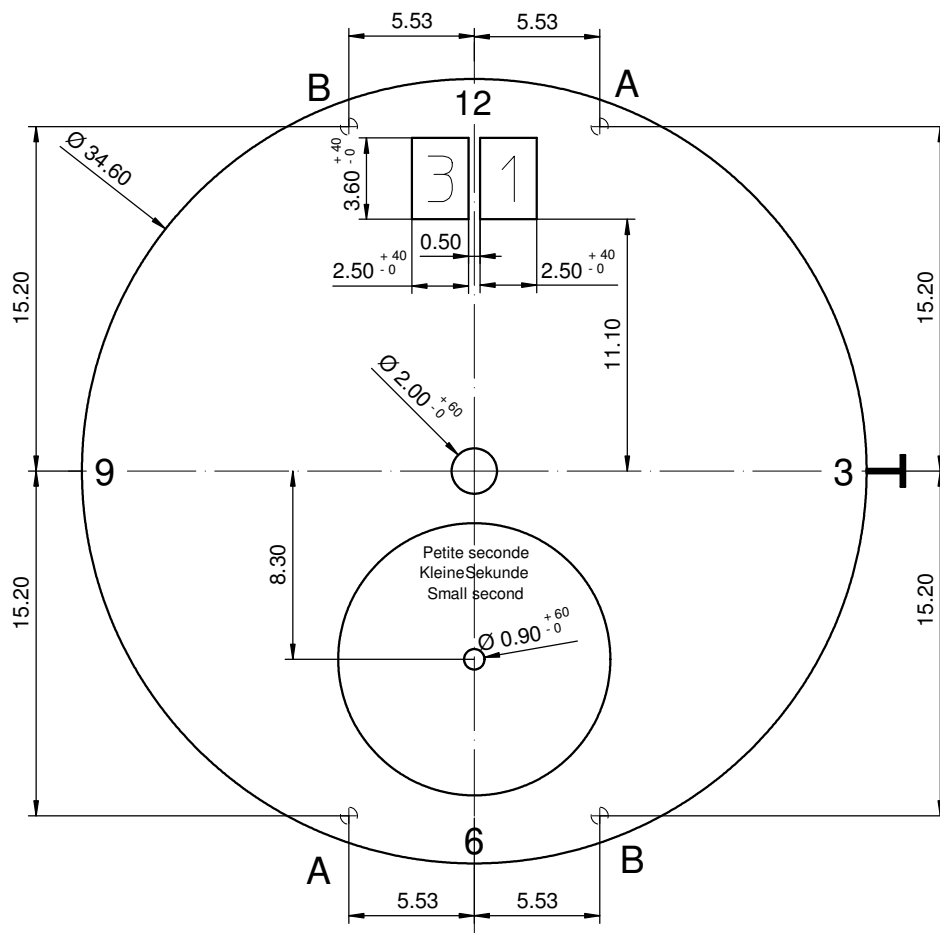
Diameter Total	34.60 mm
Case fitting	33.80 mm
Movement height	5.60 mm
Height over standard battery	5.60 mm
Movement rest	0.60 mm
Height over stem	3.30 mm
Length of stem travel	1.00 mm
Stem thread	0.90 mm
Useful torque second – typical	10 µNm
Useful torque minute – typical	500 µNm
Operating temperature	0 - 50 °C
Instantaneous rate	-10/ +20 sec/month
Resistance to magnetic fields	18.8 Oe
Resistance against shock	NIHS 91-10



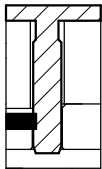
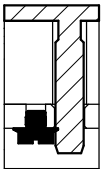
Battery Specifications

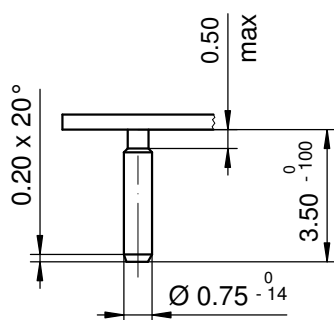
Standard battery	No. 381
Standard battery life	48 months
Battery voltage	1.5 V
Current consumption – typical	1.43 µA (Date Mechanism not in Gear)
Current consumption – maximum	3.1 µA (Date Mechanism not in Gear)





Disponibiles positions pour pieds de cadran / Available dial feet positions / Verfügbare Zifferblatffusspositionen

A Pos 1h / 7h	B Pos 5h / 11h
 <p>Fixation du cadran avec rondelle en plastique Dial fixation by plastic disc Zifferblattbefestigung durch Kunststoffscheibe</p>	 <p>Fixation du cadran avec clef de cadran Dial fixation by dial - key Zifferblattbefestigung durch Zifferblattschlüssel</p>



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

15"

Issued	28 Jun 2007	fl
Modified	26 Nov 2012 ÄÄ 10475	dh
Released	YES	
Tolerance	+/- 20 µm	
Scale	3 : 1 (A4V)	

RONDA

7004.B

Sous réserve de modifications
Änderungenvorbehalten
Modifications reserved

No.	5010.636	01
-----	----------	----

Ajustement aiguille des heures
Stundenzeigerpassung
Hour hand fitting

Ø 0.900 ⁺⁶₋₄

Ø 1.500 ⁺⁴₋₂

0.35

Cylindrique
Zylindrisch
Cylindrical

Appui cadran
Zifferblattauflege
Dial seat

Ajustement aiguille
Zeigerpassung
Hand fitting

Ø 0.200

Ø 0.5 max.

$$\varnothing 0.206^{+6}_{-4}$$

N

Ø 1.2

J

Conicité
Konizität
2% Conicity

Heures / minutes
Stunden / Minuten
Hours / minutes

Petite seconde
Kleine Sekunde
Small second

		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.	0.70	0.70	0.08	Balourd / Unwucht / Unbalance *
gmm ²	max.	-	-	0.2	Inertie / Massenträgheit / Inertia *
N	max.	40	40	30	Force de chassage / Aufpresskraft / Force

Aiguillages Zeigerwerkhöhe Hand fitting height					
Dépassement Höhe über Zifferblattauflage Height over dial seat					
Chaussée Minutenrohr Cannon-pinion		Roue des heures Stundenrad Hour wheel		Petite seconde Kleine Sekunde Small second	
No	E	F	J	N	
1	1.75	1.27	0.80	1.10	
-					

<p align="center">Aiguillages Zeigerwerkhöhe Hand fitting height</p>					
<p align="center">Peinture comprise / inkl. Farbe / Paint included</p>					
		<p align="center">Epaisseur maximum du cadran Maximale Zifferblattdicke Maximum dial thickness</p>			
No	<p>Sous l'aiguille des minutes Unter Minutenzeiger Under minute hand</p>	<p>Sous l'aiguille des heures Unter Stundenzeiger Under hour hand</p>	<p>Sous l'aiguille de petite seconde Unter kleine Sekundenzeiger Under small second hand</p>		<p>Epaisseur des aiguilles Zeigerdicke Hands thickness</p>
1	1.30	0.85	0.40		0.15
-					

Aiguillages Zeigerwerkhöhen 15" Hand fitting heights		Issued	22 Aug 2007	dh
		Modified	15 Okt 2014 ÄÄ 13275	dh
		Released	YES	
		Tolerance	µm	
		Scale	20:1 (A3H)	
RONDA	7004.B	Sous réserve de modifications Änderungen vorbehalten Modifications reserved		
		No.	3316.119	04



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
3000.194.CO	21.30	10.74	27.64	10.15	0.90	1.10



Couleur de la couronne Kronenfarbe Crown color	violet violett purple
Code	UN 5046

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

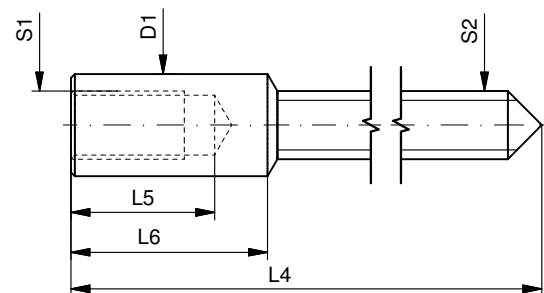
No. d'article Artikelnummer Part number	L	L1	L2	L3	S	D
3000.194	21.30	10.74	27.64	10.15	0.90	1.10



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

7002.B, 7003.B, 7003.L, 7003.N,
7004.B, 7004.N, 7004.P

Issued	06 Sep 2012	ds5222
Modified	17 Mär 2017 ÄA 34582	mg5224
Released	YES	
Tolerance	---	
Scale	10:1 (A3)	
Sous réserve de modifications Änderungen vorbehalten Modifications reserved		
No.	5030.022	02



Movement holder
Removing setting stem
H7XXX.1T



Movement holder
Setting hands
H7XXX.1A

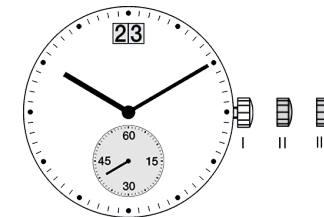
Fitting dial and hands

- Crown in position II
- Wind crown until date 02 appears
- Crown in position III
- Wind hour hand forwards, until date changes to 03
- Remove working hand
- Fit dial
- Set retrograde hand on Sunday
- Point remaining hands towards 12 o'clock
- Wind time forwards, in order to set actual weekday
- 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 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

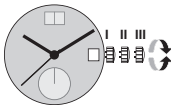
Cal. 1005 / 1006 / 1009 / 1015 / 1016 / 1019:
Battery type: 341/SR714SW

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

Cal. 715Li:
Battery type: CR 2016

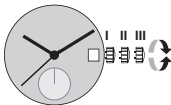
Precision: +20/-10 seconds per month

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



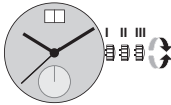
- Pos. I Position of rest (watch running)**
- Pos. II Quick-change correction for date**
The date can also be corrected during the day-changing phase between 10 pm and midnight. The date of the following day has to be set, because no automatic date change takes place at midnight.
- Pull the crown out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

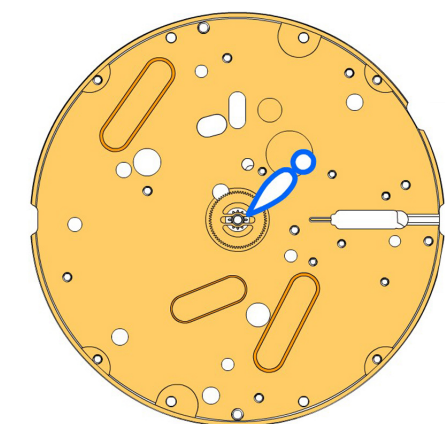


- Pos. I Position of rest (watch running)**
- Pos. II Quick-change correction for date**
Blocking time for the quick-change day correction is from approx. 9.30 pm and midnight.
- Pull the crown out to position II (watch still running).
 - Turn the crown until the current date appears.
 - Push the crown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

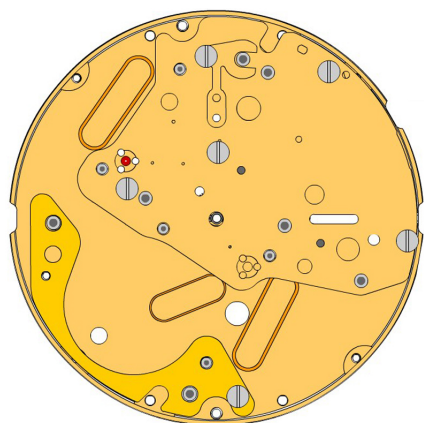
Cal. 7002.B
Cal. 7003.B
Cal. 7004.B



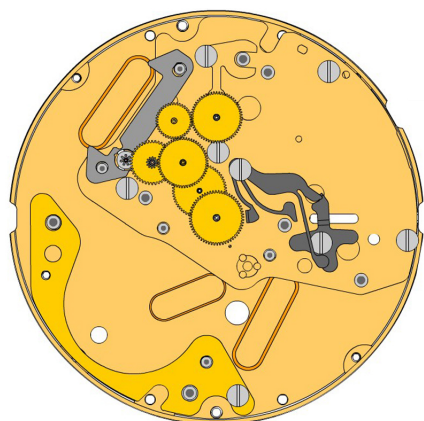
- Pos. I Position of rest (watch running)**
- Pos. II Quick-change correction for date**
The date can also be changed during the day-changing phase between approx. 8.00 pm and midnight. The date of the following day has to be set, because no automatic date change takes place at midnight.
- Pull the crown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

2000.669.G

1.



Main Plate

3305.363.CO

2.



Cannon pinion with driver B (Aig.1)

2030.028.CO

3.



Centre bridge

Centre bridge held by 3 screws 4000.250.

4000.250

4.



Screw

3406.039

5.



Sliding attachment

Sliding attachment held by 1 screw 4000.250.

2130.181.CO

6.



Combined maintaining plate

Combined maintaining plate held by 1 screw 4000.250.

4000.250

7.



Screw

3016.028

8.



Lever for setting lever

Lever for setting lever held by 1 screw 4000.249.

4000.249

9.



Screw

3016.027

10.



Stop lever

Stop lever Position held by 1 screw 4000.249.

4000.249

11.



Screw

3622.044

12.



Stator

3715.105.RK

13.



Rotor

3147.060.CO

14.



Intermediate wheel

3122.070.CO

15.



Third wheel

3136.174.CO

16.



Centre second wheel (Aig.1)

3004.203.CO

17.



Seconde intermediate wheel

3136.182.CO

18.



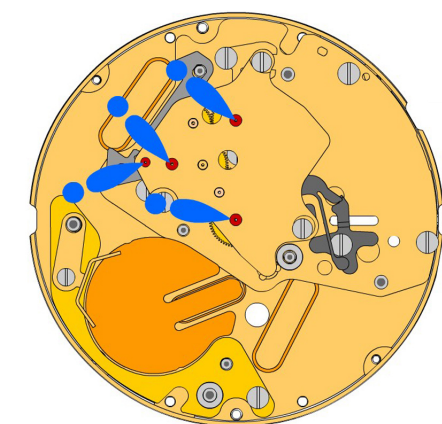
Small second wheel

3136.173.CO


19.



Centre second wheel (Aig.1)




D

2020.170.G
20.  **Train wheel bridge**
Train wheel bridge held by 3 screws 4000.250.

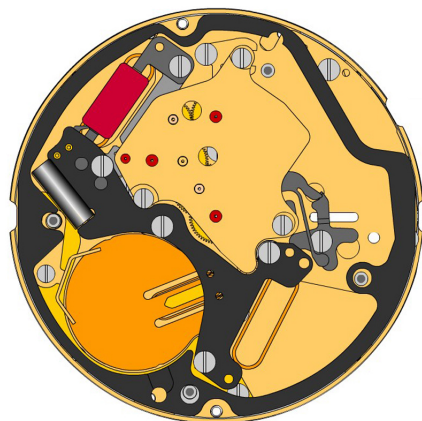
4000.244
21.  **Screws**

3603.080
22.  **Battery insulator**

3601.120.G
23.  **Battery clamp +**
Battery clamp held by 1 screw 4000.248.

4000.248
24.  **Screw**

3503.071
25.  **Tube**



E

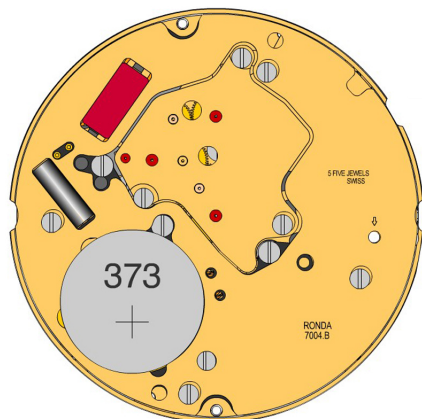
3612.196
26.  **Electronic module**
Electronic module held by 5 screws 4000.250.

4000.250
27.  **Screw**

3603.081
28.  **Spacer**

4000.244
29.  **Screws**

3600.032.HGF
30.  **Battery 381**




F

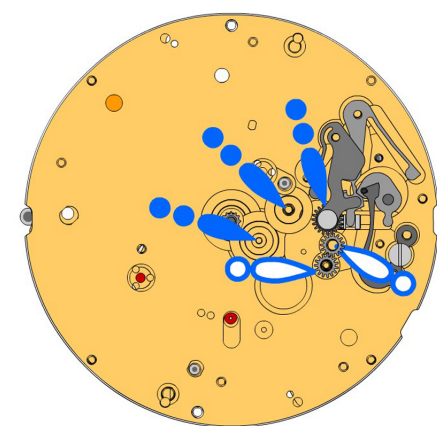
2000.669.G
31.  **Main Plate**

3017.054.CO
32.  **Setting lever**

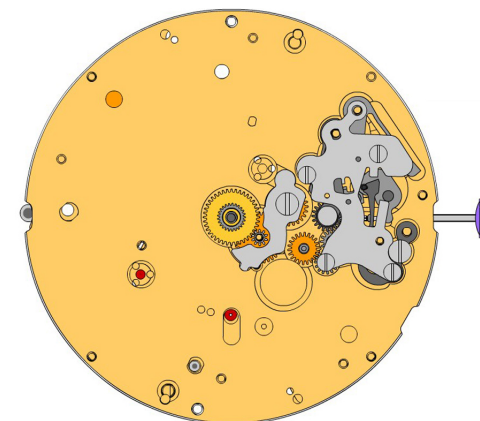
3905.063
33.  **Setting lever jumper (3 positions)**
Setting lever jumper held by 1 screw 4000.282.

4000.282
34.  **Screw**

3001.061.FI
35.  **Sliding pinion**



G




H

3015.077
36.  Yoke (3 positions)
Tensioning the spring arm.

3004.200
37.  Corrector setting wheel

3004.200
38.  Corrector setting wheel

3015.078.CO
39.  Rocking bar (3 positions)
Tensioning the spring arm.

2130.194
40.  Setting mechanism cover
Setting mechanism cover held by 4 screws 4000.305.

4000.305
41.  Screws

3000.194.CO
42.  Stem


3004.204
43.  Intermediate setting wheel

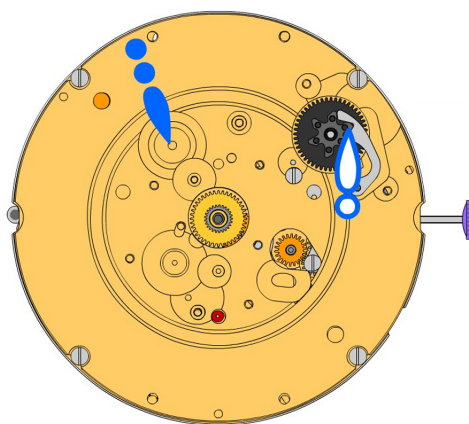
3007.079.CO
44.  Minute wheel

2130.185
45.  Minute train bridge
Minute train bridge held by 1 screw 4000.278.

4000.278
46.  Screw

3301.296.CO
47.  Hour wheel (Aig.1)

3147.066.CO
48.  Date corrector setting wheel



2000.671.G
49.



Main plate retro
Main plate retro held by 4 screws 4000.248.

4000.248
50.



Screw

3004.209
51.



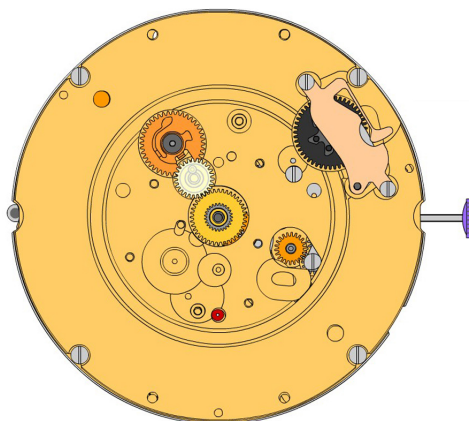
Tens indicator driving wheel
The short tooth of the tens indicator driving wheel must point to the center of the movement.

3500.073
52.



Tens jumper

I



2130.187
53.



Tens jumper maintaining plate
Tens jumper maintaining plate held by 2 screws 4000.279. Tensioning the spring arm.

4000.279
54.



Screw

3004.208.CO
55.



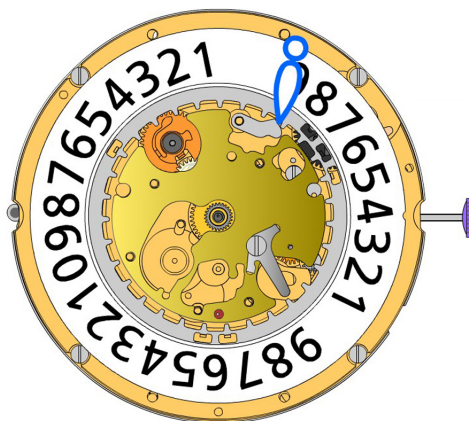
Date indicator driving wheel

3147.061
56.



Intermediate date wheel

J



2130.188
57.



Date indicator plate

3905.068
58.



Date corrector spring
Date corrector spring held by 1 screw 4000.244.

3905.066
59.



Day rack lever spring
Tensioning the spring arm.

3500.069
60.



Day jumper
Tensioning the spring arm.

3500.068
61.



Date jumper

3504.229.AF.1.A
62.



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

K




L




M



N


2130.189
63.  **Date indicator maintaining plate**
Date indicator maintaining plate held by 1 screw 4000.250.

4000.250
64.  **Screw**

3905.064
65.  **Date jumper spring**
Insert the date jumper spring in the provided opening.

3147.062
66.  **Tens intermediate wheel**
Arrow positioning radially outwards.

3315.003
67.  **Friction spring**

3504.230.AF.1.A
68.  **Tens indicator (standard)**
Nick of the indicator at 3 o'clock.

2130.190.G
69.  **Date mechanism maintaining plate (12h)**
Date mechanism maintaining plate held by 3 screws 4000.320.

4000.320
70.  **Screw**

3506.077.G
71.  **Intermediate dial support**
Polished version first.

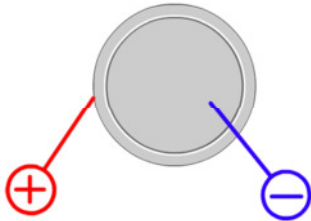
3506.076.G
72.  **Dial support**

8200
73.  **Moebius 8200**

9014
74.  **Moebius 9014**

124
75.  **Jismaa 124**

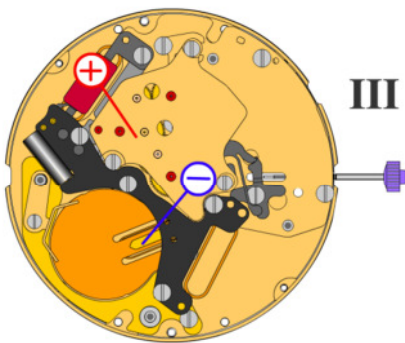
9020
76.  **Moebius 9020**



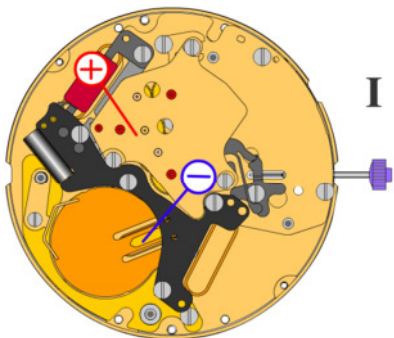
Battery

381

Voltage

1.55V

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

Typical consumption
Maximal consumption

0.1 μ A
0.3 μ A

I
*Stem in position I, date
mechanism not in gear:*

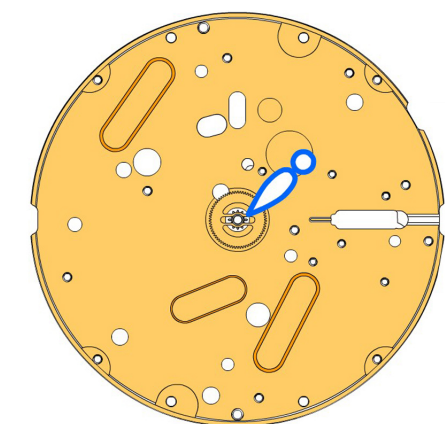
Typical consumption
Maximal consumption

1.43 μ A
3.1 μ A
60s measuring time:
Instantaneous rate

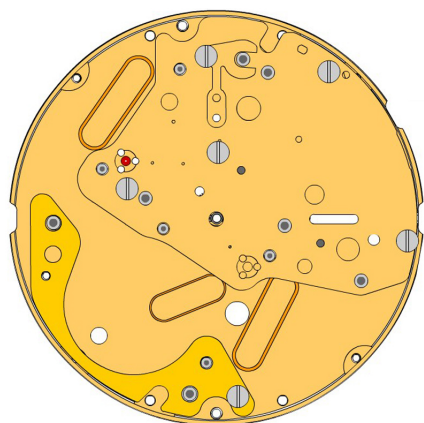
-10s/mth .. +20s/mth

Lower working voltage limit

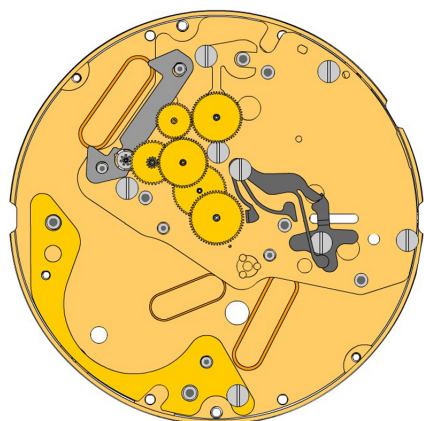
1.20 V



A



B



C

2000.669.G

1.



Main Plate

3305.363.CO

2.



Cannon pinion with driver B (Aig.1)

2030.028.CO

3.



Centre bridge

Centre bridge held by 3 screws 4000.250.

4000.250

4.



Screw

3406.039

5.



Sliding attachment

Sliding attachment held by 1 screw 4000.250.

2130.181.CO

6.



Combined maintaining plate

Combined maintaining plate held by 1 screw 4000.250.

4000.250

7.



Screw

3016.028

8.



Lever for setting lever

Lever for setting lever held by 1 screw 4000.249.

4000.249

9.



Screw

3016.027

10.



Stop lever

Stop lever Position held by 1 screw 4000.249.

4000.249

11.



Screw

3622.044

12.



Stator

3715.105.RK

13.



Rotor

3147.060.CO

14.



Intermediate wheel

3122.070.CO

15.



Third wheel

3136.174.CO

16.



Centre second wheel (Aig.1)

3004.203.CO

17.



Seconde intermediate wheel

3136.182.CO

18.



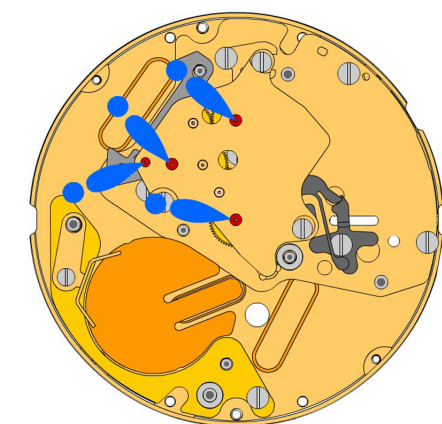
Small second wheel

3136.173.CO

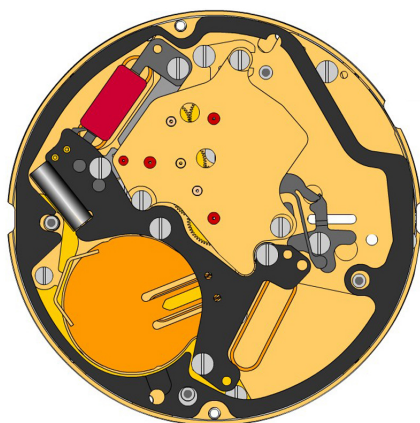
19.



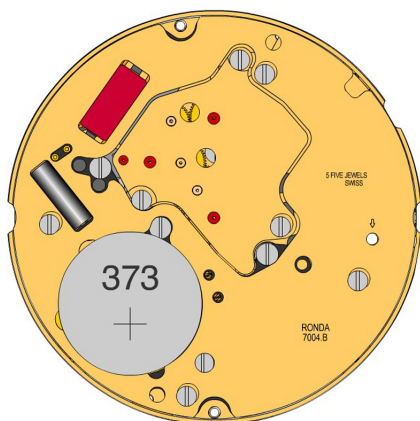
Centre second wheel (Aig.1)



D



E



F

2020.170.G
20.



Train wheel bridge
Train wheel bridge held by 3 screws 4000.250.

4000.244
21.



Screws

3603.080
22.



Battery insulator

3601.120.G
23.



Battery clamp +
Battery clamp held by 1 screw 4000.248.

4000.248
24.



Screw

3503.071
25.



Tube

3612.196
26.



Electronic module
Electronic module held by 5 screws 4000.250.

4000.250
27.



Screw

3603.081
28.



Spacer

4000.244
29.



Screws

3600.032.HGF
30.



Battery 381

2000.669.G
31.



Main Plate

3017.054.CO
32.



Setting lever

3905.063
33.



Setting lever jumper (3 positions)
Setting lever jumper held by 1 screw 4000.282.

4000.282
34.

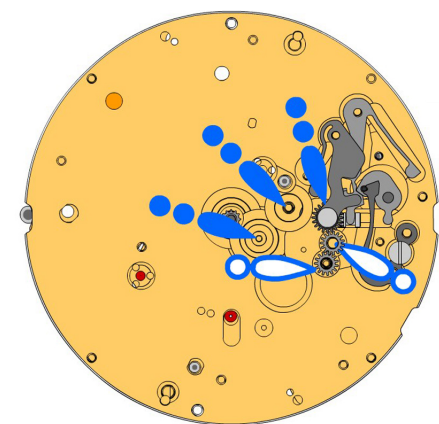


Screw

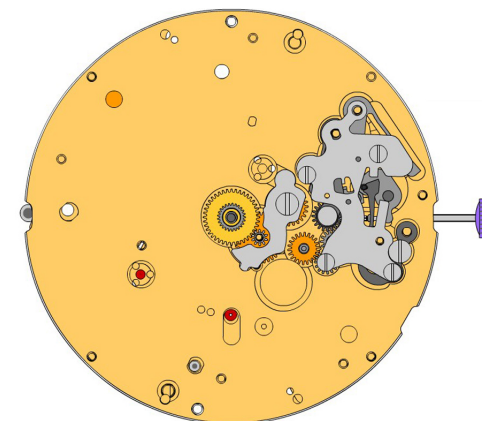
3001.061.FI
35.



Sliding pinion



G





H

3015.077
36.  Yoke (3 positions)
Tensioning the spring arm.

3004.200
37.  Corrector setting wheel

3004.200
38.  Corrector setting wheel

3015.078.CO
39.  Rocking bar (3 positions)
Tensioning the spring arm.

2130.194
40.  Setting mechanism cover
Setting mechanism cover held by 4 screws 4000.305.

4000.305
41.  Screws

3000.194.CO
42.  Stem


3004.204
43.  Intermediate setting wheel

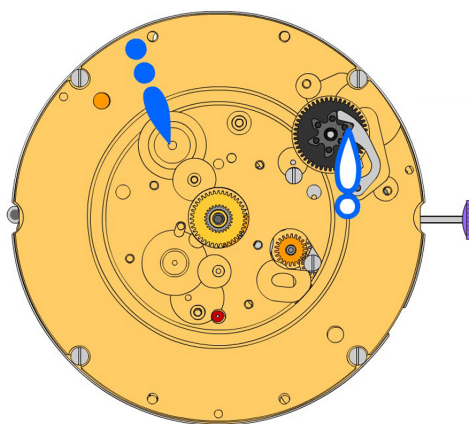
3007.079.CO
44.  Minute wheel

2130.185
45.  Minute train bridge
Minute train bridge held by 1 screw 4000.278.

4000.278
46.  Screw

3301.296.CO
47.  Hour wheel (Aig.1)

3147.066.CO
48.  Date corrector setting wheel



2000.671.G
49.



Main plate retro
Main plate retro held by 4 screws 4000.248.

4000.248
50.



Screw

3004.220
51.



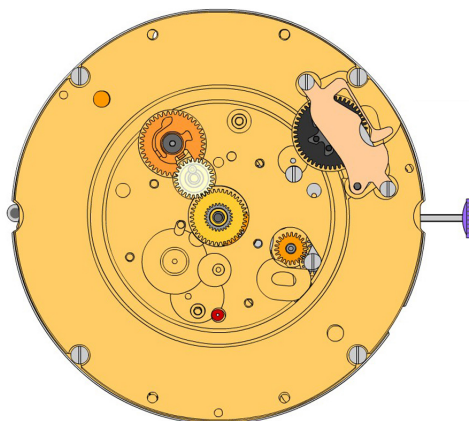
Tens indicator driving wheel
The short tooth of the tens indicator driving wheel must point to the center of the movement.

3500.072
52.



Tens jumper

I



2130.187
53.



Tens jumper maintaining plate
Tens jumper maintaining plate held by 2 screws 4000.279. Tensioning the spring arm.

4000.279
54.



Screw

3004.208.CO
55.



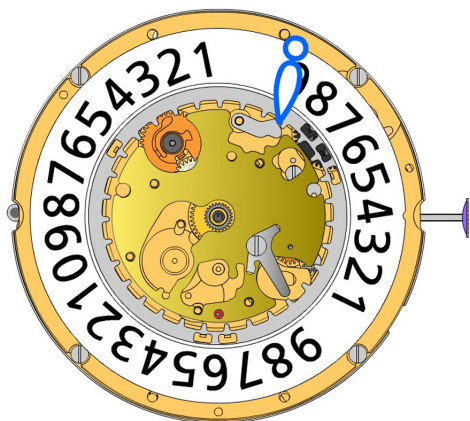
Date indicator driving wheel

3147.061
56.



Intermediate date wheel

J



2130.188
57.



Date indicator plate

3905.068
58.



Date corrector spring
Date corrector spring held by 1 screw 4000.244.

3905.066
59.



Day rack lever spring
Tensioning the spring arm.

3500.069
60.



Day jumper
Tensioning the spring arm.

3500.068
61.



Date jumper

3504.229.AF.1.A
62.



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

K




L




M



N


2130.189
63.  Date indicator maintaining plate
Date indicator maintaining plate held by 1 screw 4000.250.

4000.250
64.  Screw

3905.064
65.  Date jumper spring
Insert the date jumper spring in the provided opening.

3147.062
66.  Tens intermediate wheel
Arrow positioning radially outwards.

3315.003
67.  Friction spring

3504.230.AF.1.A
68.  Tens indicator (standard)
Nick of the indicator at 3 o'clock.

2130.190.G
69.  Date mechanism maintaining plate (12h)
Date mechanism maintaining plate held by 3 screws 4000.320.

4000.320
70.  Screw

3506.077.G
71.  Intermediate dial support
Polished version first.

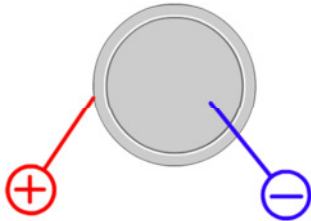
3506.076.G
72.  Dial support

8200
73.  Moebius 8200

9014
74.  Moebius 9014

124
75.  Jismaa 124

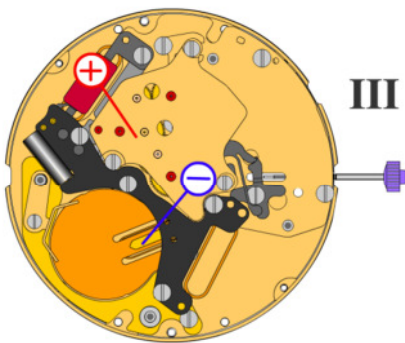
9020
76.  Moebius 9020



Battery

381

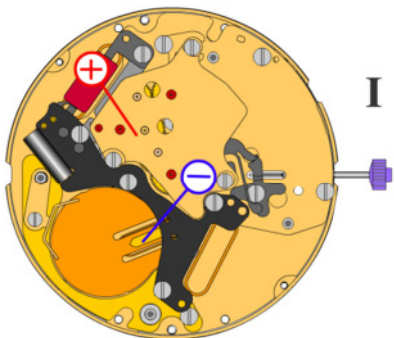
Voltage

1.55V

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

Typical consumption

0.1 μ A

Maximal consumption

0.3 μ A

I
*Stem in position I, date
mechanism not in gear:*

Typical consumption

1.43 μ A

Maximal consumption

3.1 μ A
60s measuring time:

Instantaneous rate

-10s/mth .. +20s/mth

Lower working voltage limit

1.20 V