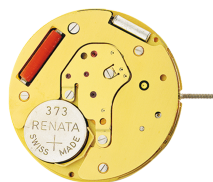


RONDA normtech 700 & 6000

Lange Batterielaufzeit und spezielle Funktionen

Caliber 6004.B – 11½'''



Product Specifications

Analog quartz movement

Line normtech

Caliber 6004.B

Size 11½'''

Version Swiss Made 5 Jewels / gold plated
Swiss Parts 1 Jewels / nickel plated

Standard battery life 40 months

Hand fitting height 1

Features

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

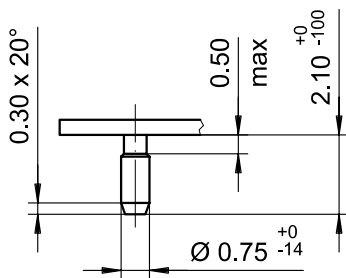
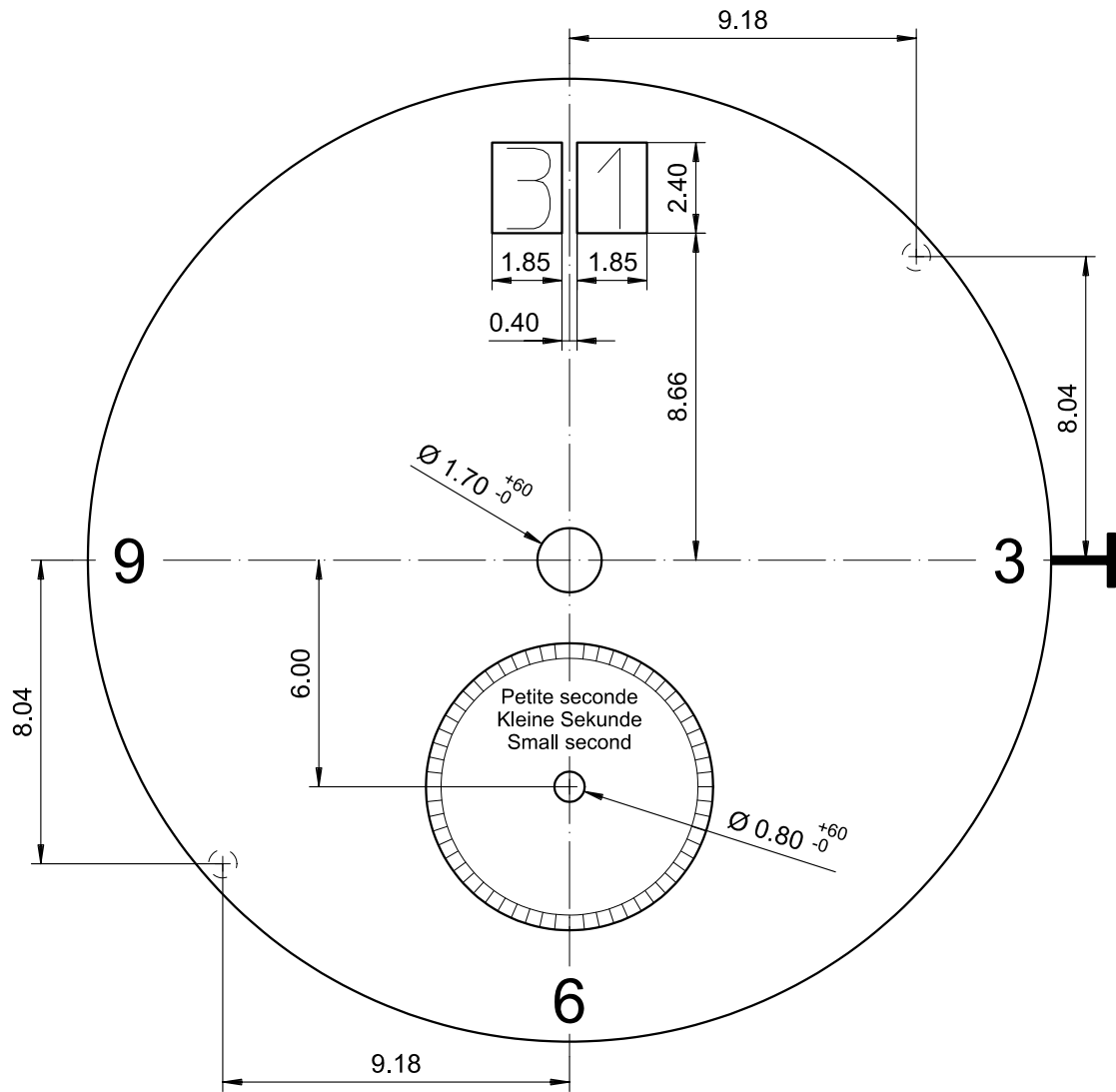
Functions

- Big date
- Small second
- 2 hands

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
Standard battery	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)
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

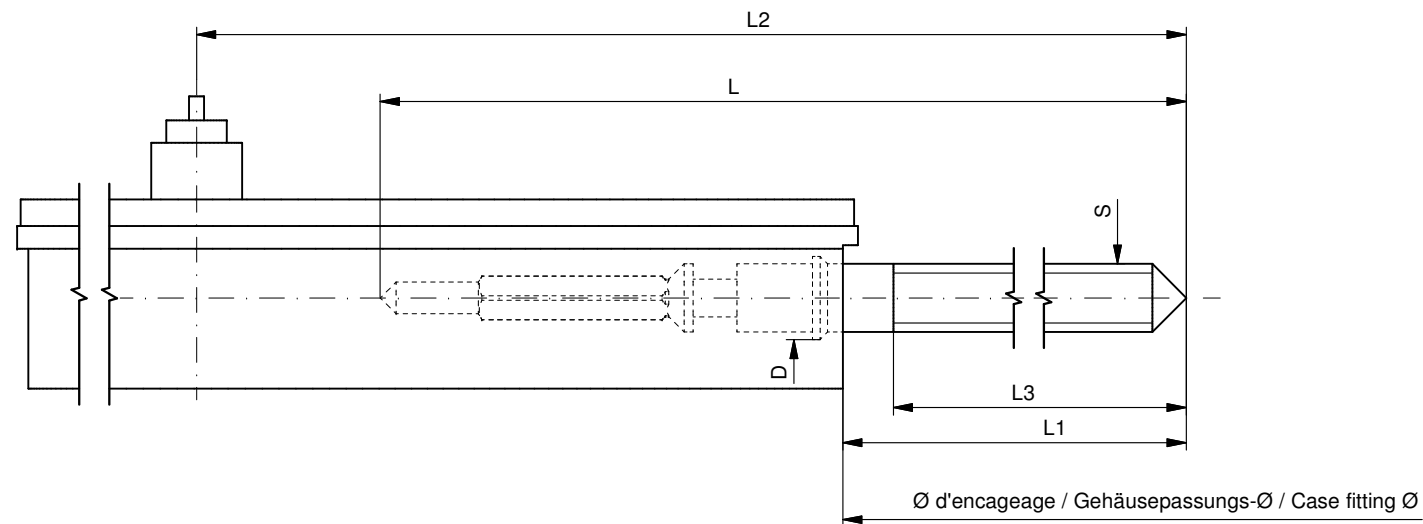




Epaisseur du cadran selon hauteur de l'aiguillage
 Zifferblattdicke gemäss Zeigerwerkhöhen
 Dial thickness according to hand fitting heights

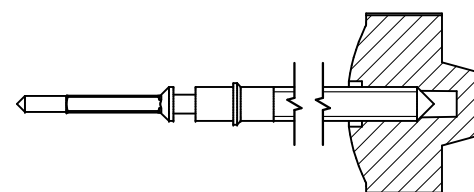
Tige	Date
Stellw.	Datum
Stem	Date
03H	12H

Cadran Zifferblatt Dial	11½"	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 Aenderungen vorbehalten Modifications reserved		
		No.	5010.791	01



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

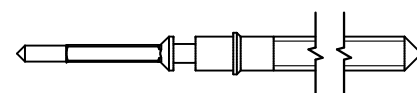
No. d'article Artikelnummer Part number	L	L1	L2	L3	S	D
3000.189.CO	19.30	10.57	23.37	10.15	0.90	1.10



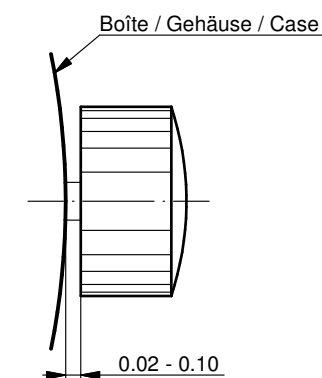
Couleur de la couronne Kronenfarbe Crown color	marron kastanienbraun chestnut
Code	UN 8018

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

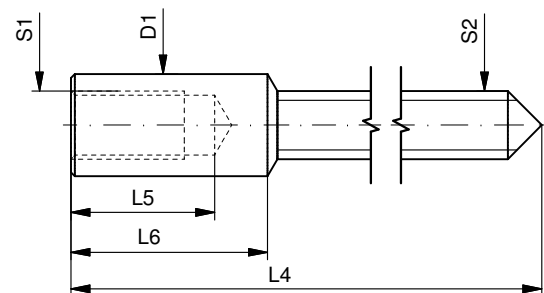


Couronne vissée
 Geschraubte Krone
 Screwed crown

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
 Änderungen vorbehalten
 Modifications reserved

No.	5030.021	01
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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 – 6003.B
– 705 – 6004.B
– 784
– 785
– 714
– 715
– 715Li

RONDA mastertech

– 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

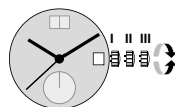
Cal. 505

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.

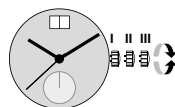
Pos. III Setting the time

- 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)

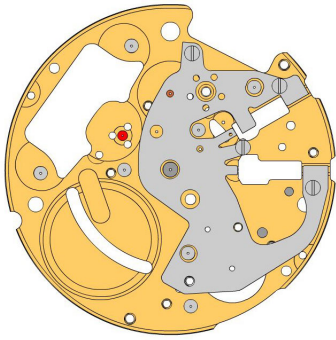
Pos. II Quick-change correction for date

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.

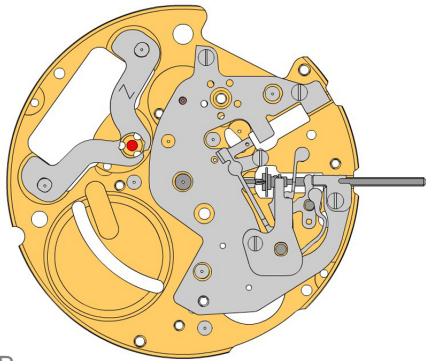
- Pull the crown out to position II (watch still running).
- Turn the crown until the current date appears.
- Push the crown back into position I.

Pos. III Setting the time

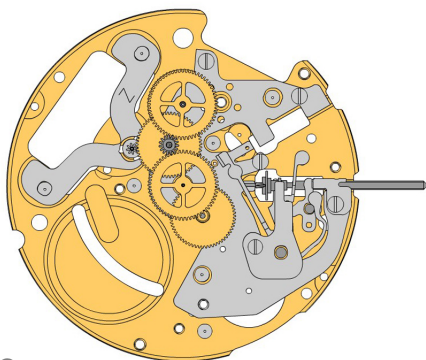
- Pull the crown out to position III (watch stopped).
- Turn the crown, until the current time is displayed (remember the 24-hour cycle).
- Push the crown back into position I.




















A

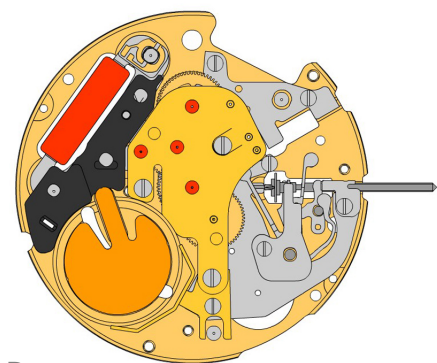


B

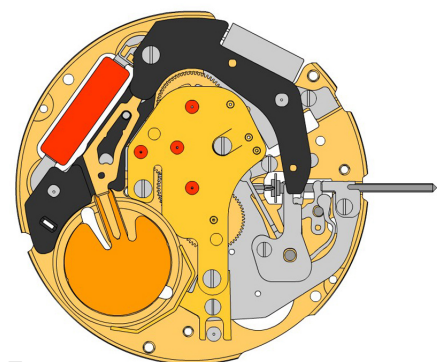


C

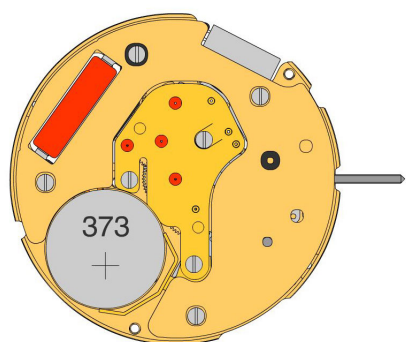
2000.628.G 1.		Main plate
2130.167.CO 2.		Setting mechanism cover Setting mechanism cover held by 3 screws 4000.321. Parts 2130.167.CO and 3004.188 must be exchanged together.
4000.321 3.		Screw
3017.057 4.		Setting lever
3015.074 5.		Yoke (3 positions) Tensioning the spring arm.
3001.042.FI 6.		Sliding 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

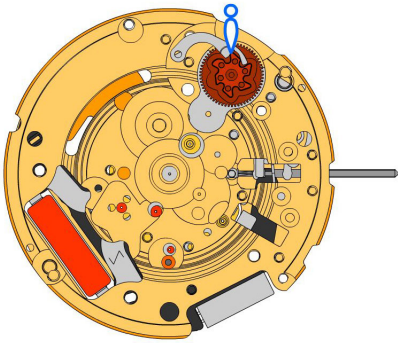


E




F

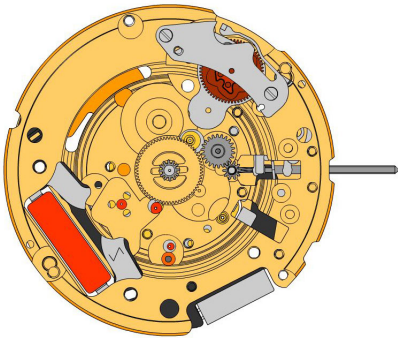
2020.180.G 18.		Train wheel bridge Train wheel bridge held by 3 screws 4000.279.
4000.279 19.		Screw
3601.117.G 20.		Battery clamp + Lateral bridle held by 1 screw 4000.244.
4000.244 21.		Screw
3621.060.RK 22.		Coil Attention: Please hold the coil only on the grey coil core.
3603.074 23.		Bridle (-) 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

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



H

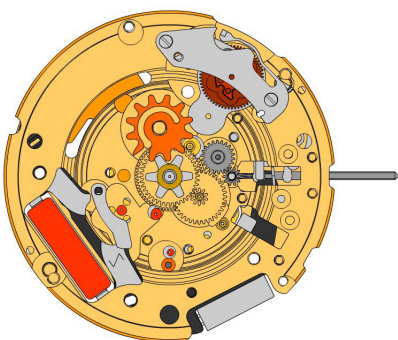
2130.171
34.  Tens jumper maintaining plate
Tens jumper maintaining plate held by 2 screws 4000.332. Tensioning the spring arm.

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)


I

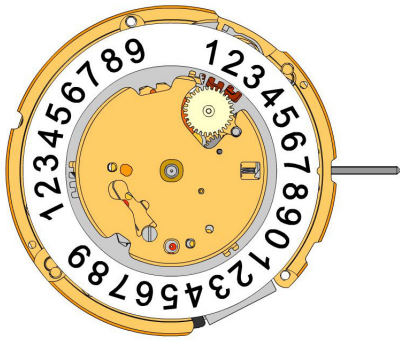
3007.073.CO
39.  Minute wheel

3301.272.CO
40.  Hour wheel (Aig.1)






3315.001
41.  Friction spring

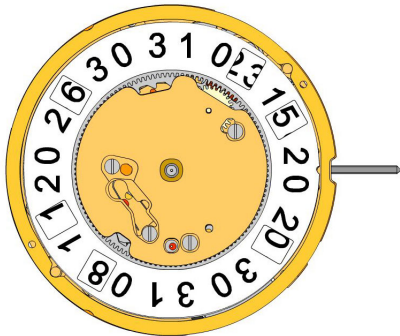
3004.187
42.  Date indicator driving wheel

3500.061
43.  Date jumper











J

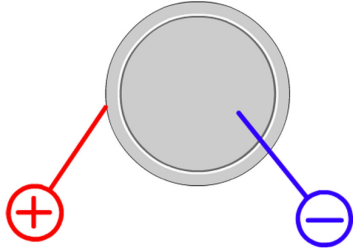
3504.217.AF.1.A 44.		Units indicator (standard) Nick of the indicator at 3 o' clock.
3147.057 45.		Tens intermediate wheel
2130.169 46.		Date indicator maintaining plate Date indicator maintaining plate held by 1 screw 4000.312.
4000.312 47.		Screw
3905.070 48.		Date jumper spring Insert the date jumper spring in the provided opening.



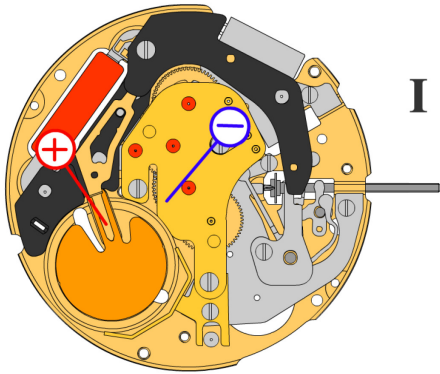
K

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

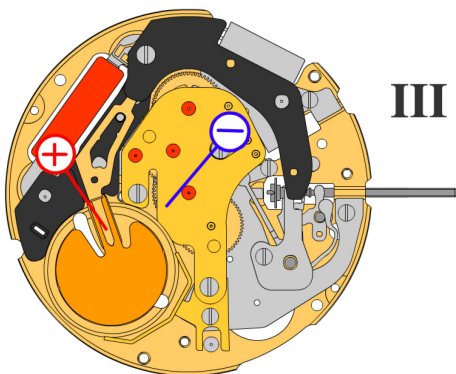


Battery	373
Voltage	1.55 V



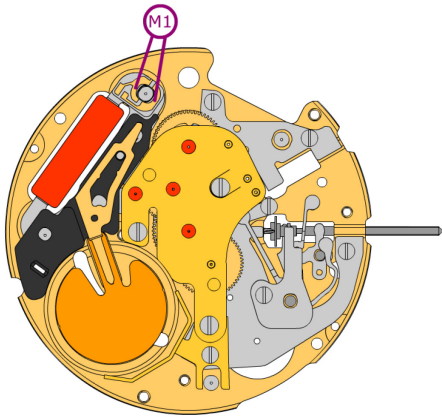
*Setting stem in position I, calendar not in gear,
60 s measuring interval for rate and consumption:*

Typical consumption	1.03 μA
Maximal consumption	1.85 μA
Rate	-10s/M. .. +20s/M.
Lower working voltage limit	1.20 V



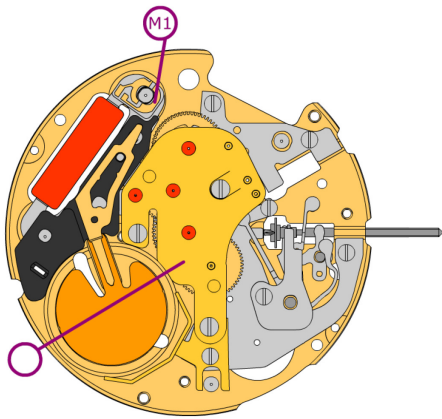
Setting stem in position III, 60 s measuring interval:

Typical consumption	0.10 μA
Maximal consumption	0.30 μA



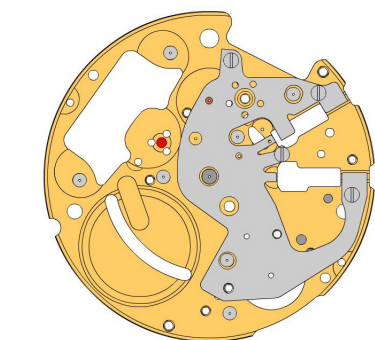
Coil resistance M1

1.61 kΩ .. 1.81 kΩ

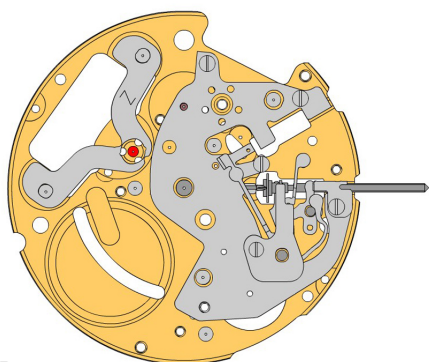


Coil isolation M1

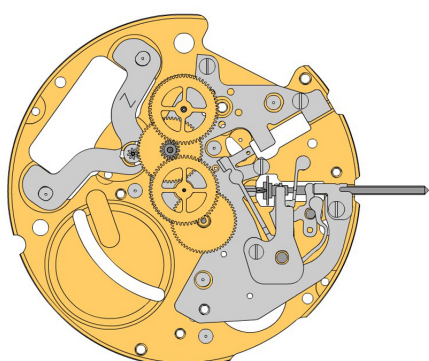
∞ kΩ




















A

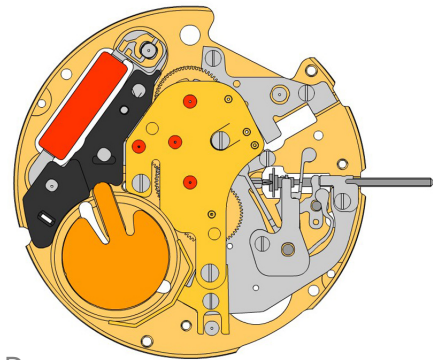


B

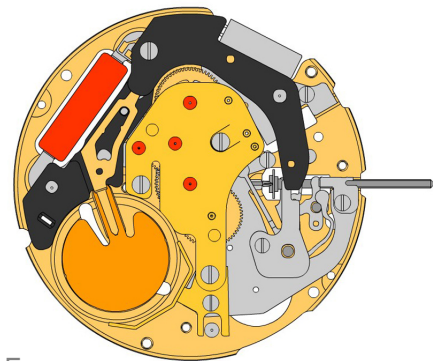


C

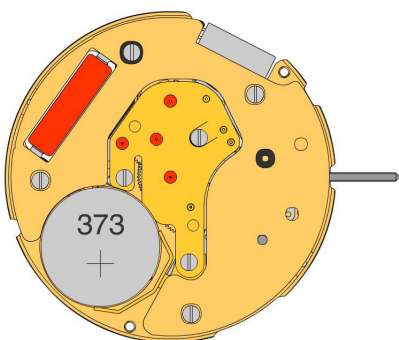
2000.628.G 1.		Main plate
2130.204.CO 2.		Setting mechanism cover Setting mechanism cover held by 3 screws 4000.321.
4000.321 3.		Screw
3017.057 4.		Setting lever
3015.074 5.		Yoke (3 positions) Tensioning the spring arm.
3001.042.FI 6.		Sliding pinion
3000.189.CO 7.		Setting stem
2020.166 8.		Yoke bridge 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

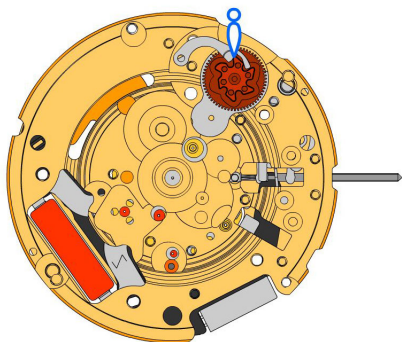





E

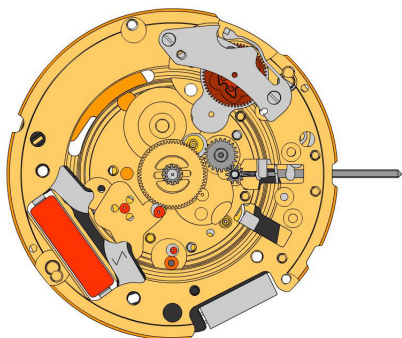







F

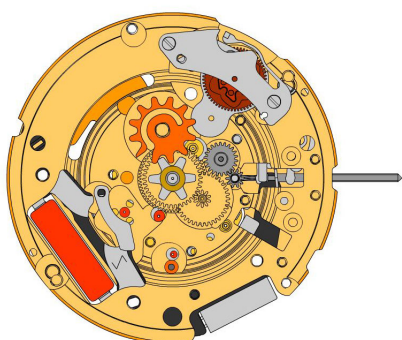
2020.180.G 18.		Train wheel bridge Train wheel bridge held by 3 screws 4000.279.
4000.279 19.		Screw
3601.117.G 20.		Battery clamp + Lateral bridle held by 1 screw 4000.244.
4000.244 21.		Screw
3621.060.RK 22.		Coil Attention: Please hold the coil only on the grey coil core.
3603.074 23.		Bridle (-) 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

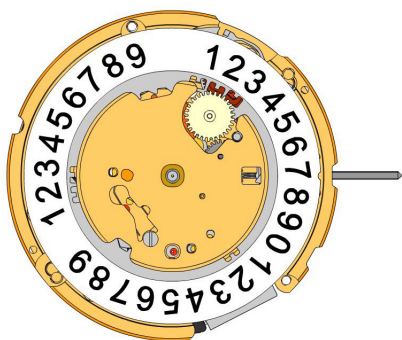
2000.628.G 31.		Main plate
3004.232 32.		Tens indicator driving wheel The short tooth of the tens indicator driving wheel must point to the center of the movement.
3500.060 33.		Tens jumper


H






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)

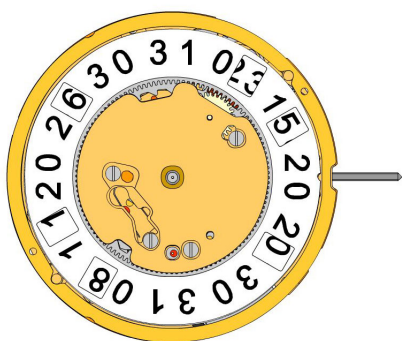

I

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

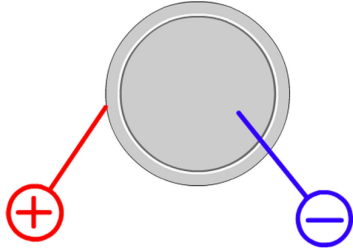
3504.217.AF.1.A 44.		Units indicator (standard) Nick of the indicator at 3 o' clock.
3147.057 45.		Tens intermediate wheel
2130.169 46.		Date indicator maintaining plate Date indicator maintaining plate held by 1 screw 4000.312.
4000.312 47.		Screw
3905.070 48.		Date jumper spring Insert the date jumper spring in the provided opening.



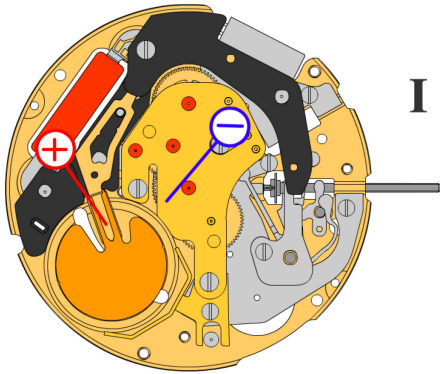
K

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

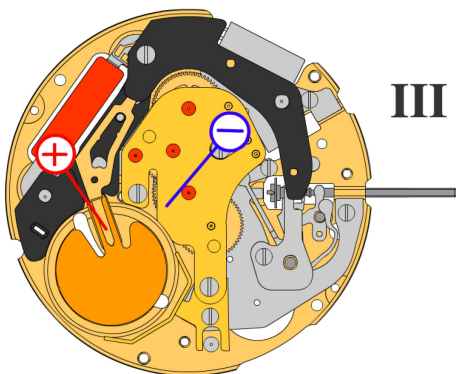


Battery	373
Voltage	1.55 V



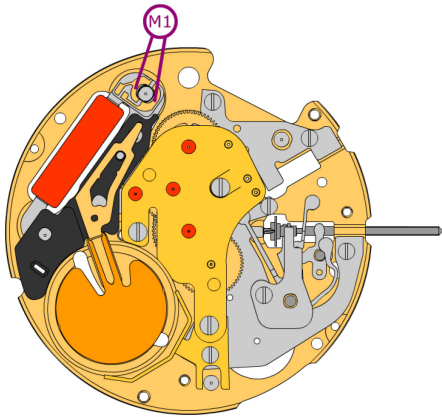
*Setting stem in position I, calendar not in gear,
60 s measuring interval for rate and consumption:*

Typical consumption	1.03 μA
Maximal consumption	1.85 μA
Rate	-10s/M. .. +20s/M.
Lower working voltage limit	1.20 V



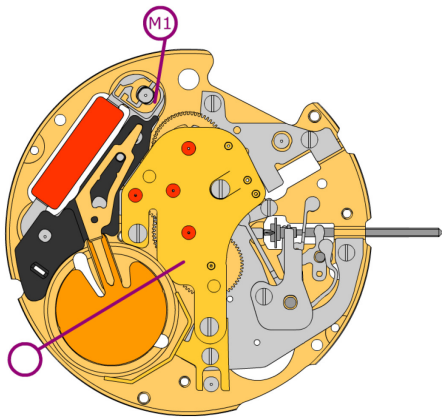
Setting stem in position III, 60 s measuring interval:

Typical consumption	0.10 μA
Maximal consumption	0.30 μA



Coil resistance M1

1.61 kΩ .. 1.81 kΩ



Coil isolation M1

∞ kΩ