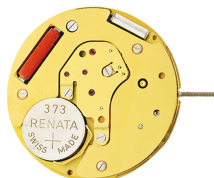


Caliber 6003.D – 11½"



Product Specifications

Analog quartz movement

Line normtech

Caliber 6003.D

Size 11½"

Version Swiss Made 4 Jewels / gold plated EOL

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%

Functions

- Date
- 3 hands

Quartz Movements

Classic Functions

RONDA normtech

Caliber 6003.D – 11½"

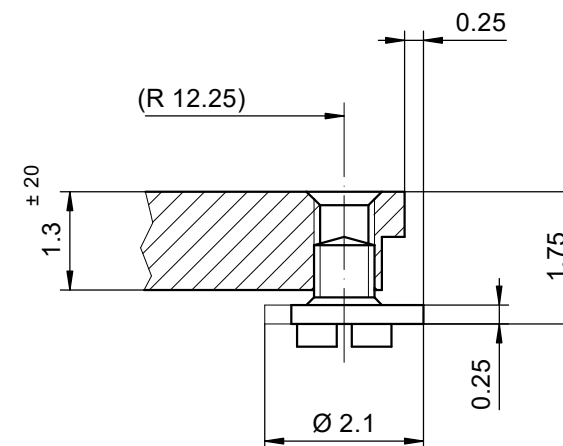
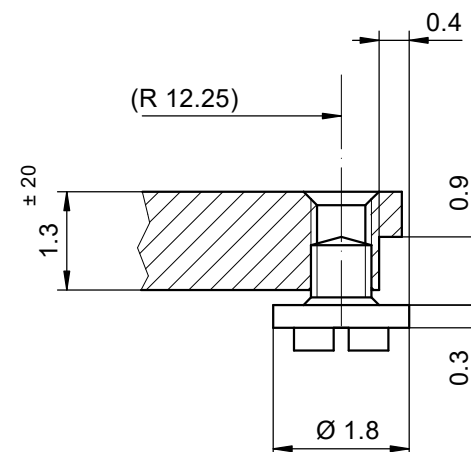
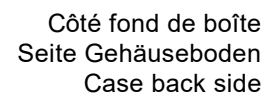
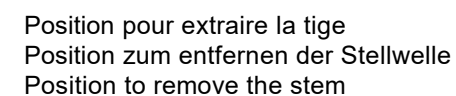
Technical Specifications

Diameter Total	26.00 mm
Case fitting	25.60 mm
Movement height	2.50 mm
Height over standard battery	2.50 mm
Movement rest	0.60 mm
Height over stem	1.00 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

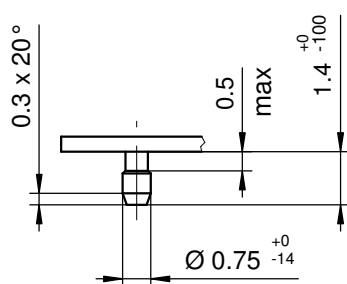
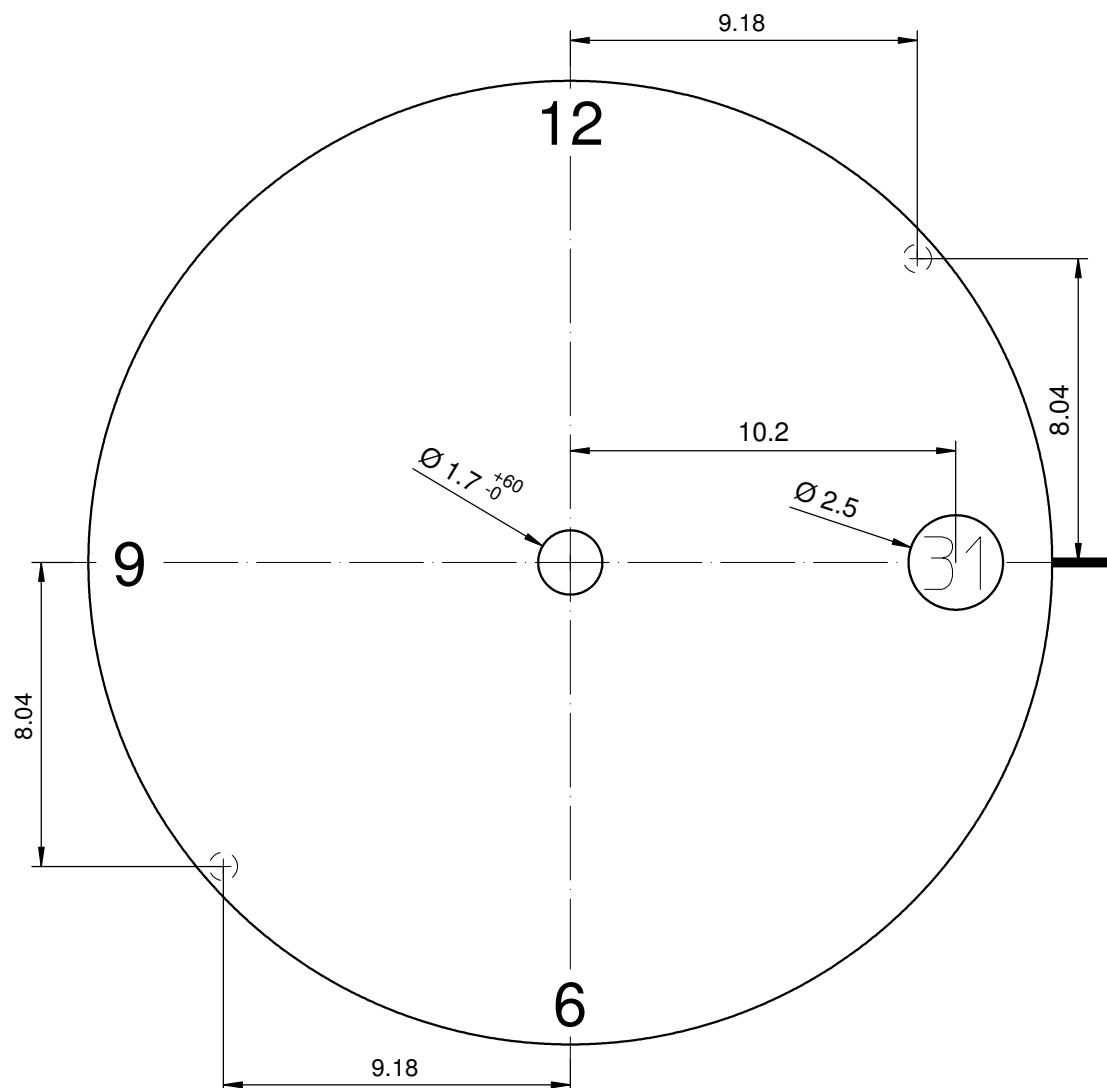
Standard battery	No. 373
Standard battery life	40 months
Battery voltage	1.5 V
Current consumption – typical	1.03 µA (Date Mechanism not in Gear)
Current consumption – maximum	1.45 µA (Date Mechanism not in Gear)



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

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

Cage Uhrwerkgestell 11½" Frame		Issued	11.11.2006	cm	
		Modified	06.05.2021	jp5226	
		Released	YES		
		Mod. No.	42474		
		Tolerance	±20 µm		
		Scale	10 : 1	Page 1/1	A3
RONDA	6003.D, 6013.D	Sous réserve de modifications Aenderungen vorbehalten Modifications reserved			
		No.	5000.332	04	



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	3H
	○

Cadran
Zifferblatt
Dial

11 1/2"

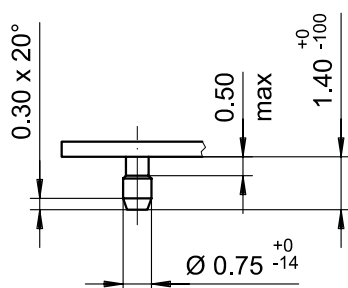
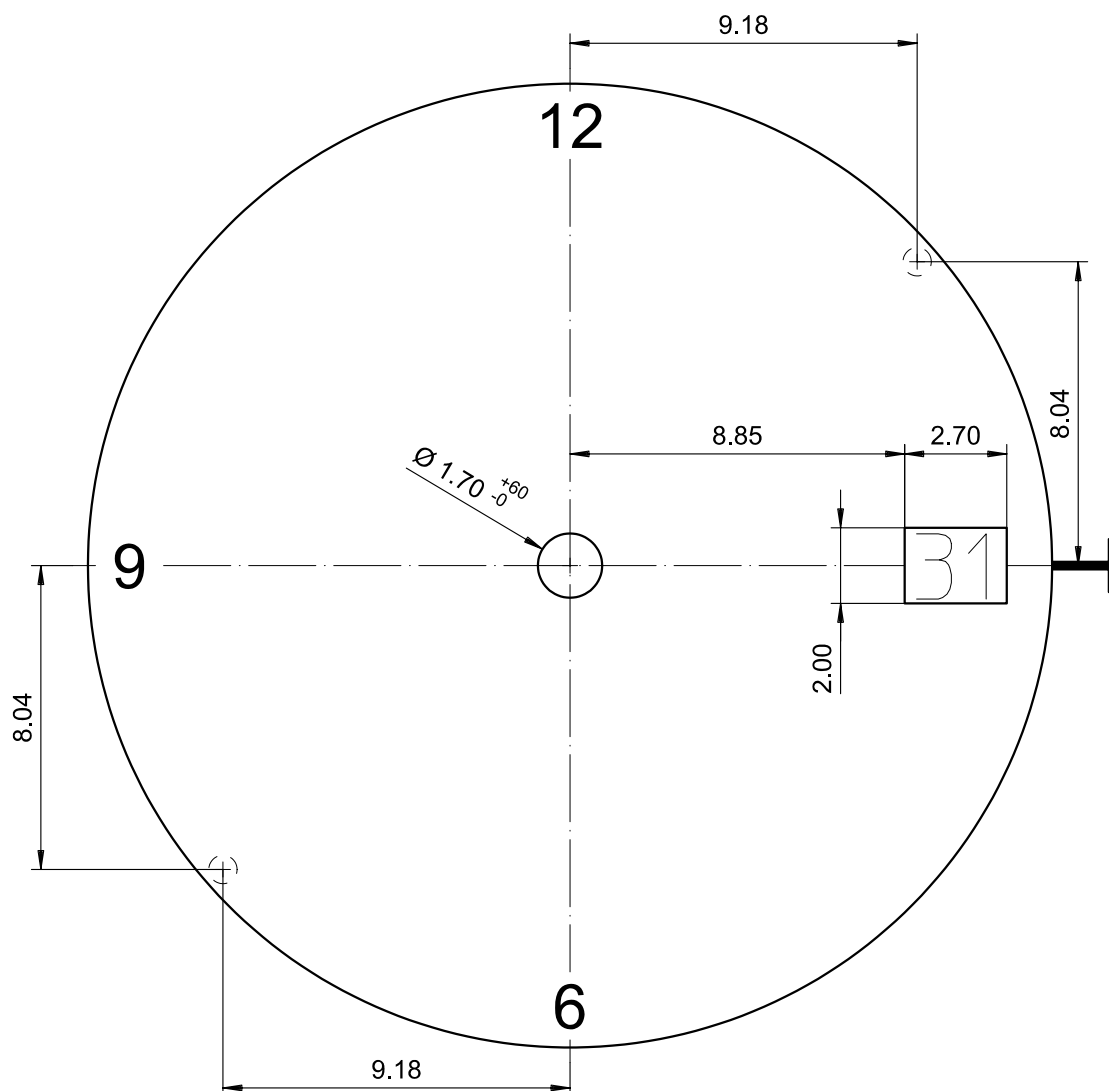
Issued	07.Okt.2011	dh
Modified	07.Okt.2011 13.Feb.2012	dh
Released	YES	
Tolerance	+/- 20 µm	
Scale	5 : 1 (A4V)	

RONDA

6003.D

Sous réserve de modifications
Änderungenvorbehalten
Modifications reserved

No.	5010.024	00
-----	----------	----

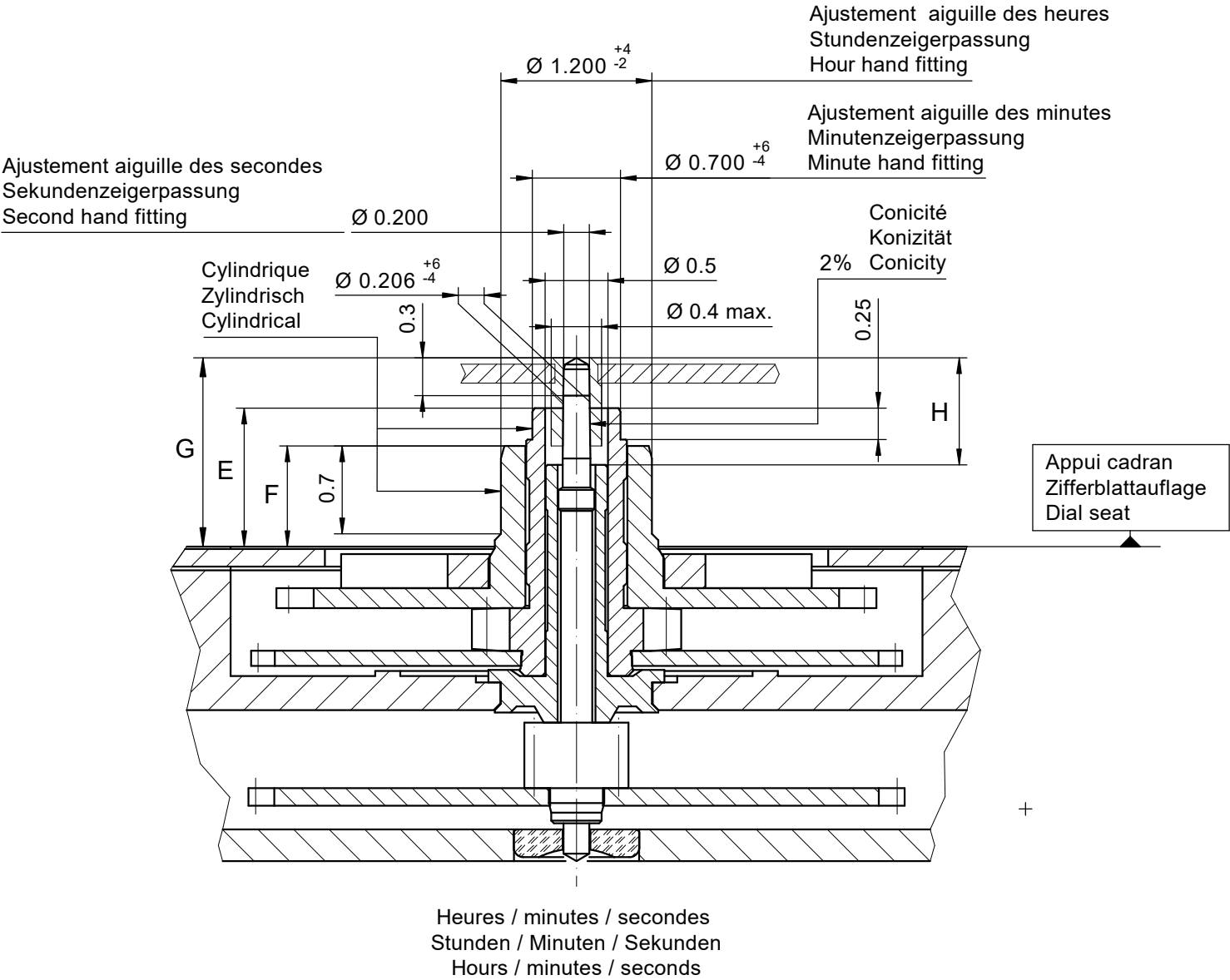


Tige	Date
Stellw.	Datum
Stem	Date
3H	3H

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	23 Nov 2006	cm
		Modified	21.Apr.2008 ÄA 4553	fl
		Released	YES	
		Tolerance	+/- 20 µm	
		Scale	5 : 1 (A4V)	
RONDA	6003.D	Sous réserve de modifications Änderungen vorbehalten Modifications reserved		
		No.	5010.752	01

11 1/2"



		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

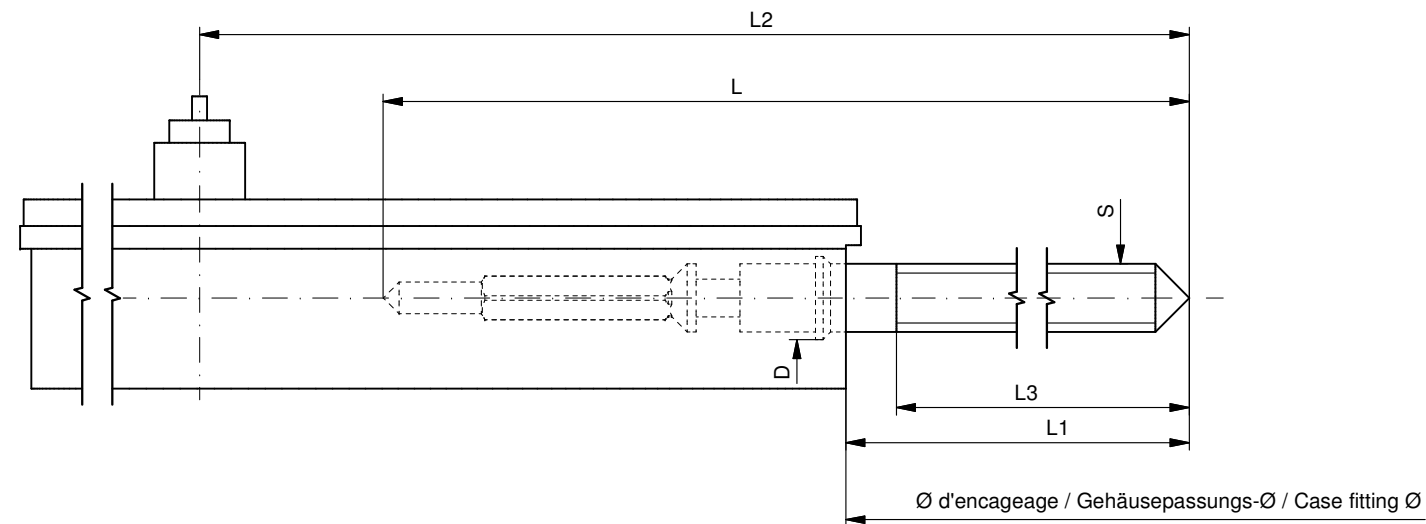
Aiguillages Zeigerwerkhöhe Hand fitting height				
Dépassement Höhe über Zifferblattauflage Height over dial seat				
No	Pignon des secondes Sekundentrieb Second pinion	Chaussée Minutenrohr Cannon-pinion	Roue des heures Stundenrad Hour wheel	
	G	E	F	H
1	1.50	1.10	0.80	0.85
-				

Aiguillages Zeigerwerkhöhe Hand fitting height				
Peinture comprise / inkl. Farbe / Paint included				
Epaisseur maximum du cadran Maximale Zifferblattdicke Maximum dial 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	Epaisseur des aiguilles Zeigerdicke Hands thickness
1	1.00	0.70	0.40	0.15
-				

Aiguillages
Zeigerwerkhöhen 11½"
Hand fitting heights

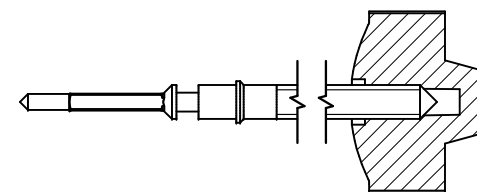
RONDA 6003.D, 6013.D

Issued	16.11.2006	cm
Modified	12.05.2021	jp5226
Released	YES	
Mod. No.	42474	
Tolerance	---	
Scale	20 : 1	Page 1/1 A3
Sous réserve de modifications Änderungen vorbehalten Modifications reserved		
No.	3316.101	06



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

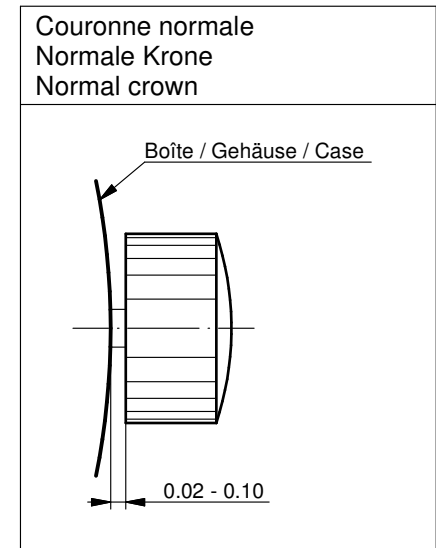
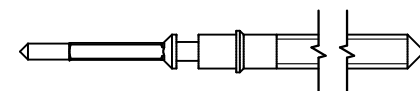
No. d'article Artikelnummer Part number	L	L1	L2	L3	S	D
3000.189.CO	19.30	10.57	23.37	10.15	0.90	1.10



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

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

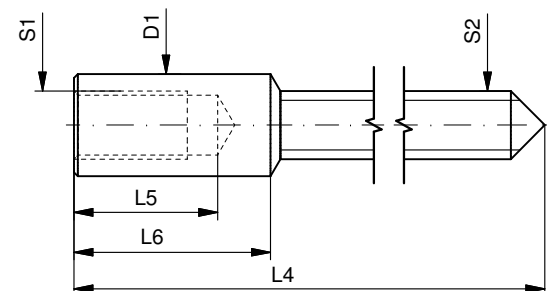
No. d'article Artikelnummer Part number	L	L1	L2	L3	S	D
3000.189	19.30	10.57	23.37	10.15	0.90	1.10
3000.199	25.00	16.27	29.07	15.85	0.90	1.10



Couronne 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



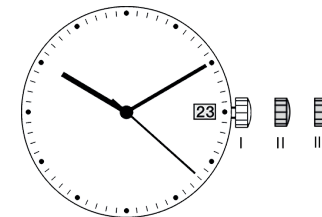
Movement holder
Setting hands
H6XXX.1A2

Fitting dial and hands

- Crown in position III
- Wind hour hand forwards, until date changes
- Remove working hand
- Set friction spring 3315.001 on the hour wheel, if not yet in place
- Fit dial
- Point all hands towards 12 o'clock
- Set time
- Crown in position II
- Set date
- Crown in position I

Date switching duration:

~1¼hrs



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

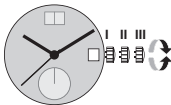
Cal. 1005 / 1006 / 1009 / 1015 / 1016 / 1019:
Battery type: 341/SR714SW

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

Cal. 715Li:
Battery type: CR 2016

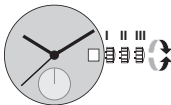
Precision: +20/-10 seconds per month

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



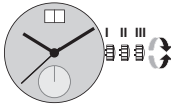
- Pos. I Position of rest (watch running)**
- Pos. II Quick-change correction for date**
The date can also be corrected during the day-changing phase between 10 pm and midnight. The date of the following day has to be set, because no automatic date change takes place at midnight.
- Pull the crown out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

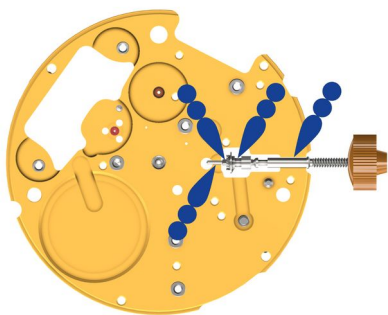






- Pos. I Position of rest (watch running)**
- Pos. II Quick-change correction for date**
Blocking time for the quick-change day correction is from approx. 9.30 pm and midnight.
- Pull the crown out to position II (watch still running).
 - Turn the crown until the current date appears.
 - Push the crown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

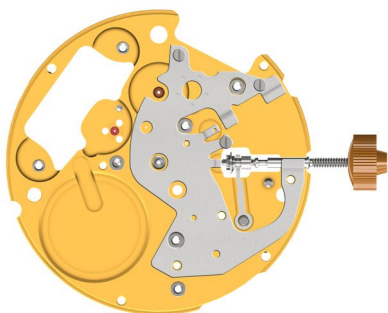
Cal. 7002.B
Cal. 7003.B
Cal. 7004.B








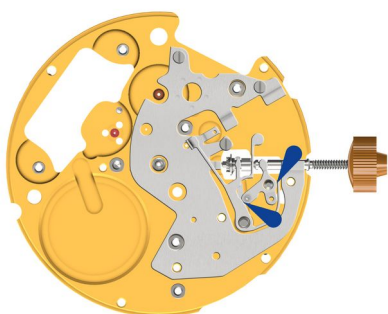
- Pos. I Position of rest (watch running)**
- Pos. II Quick-change correction for date**
The date can also be changed during the day-changing phase between approx. 8.00 pm and midnight. The date of the following day has to be set, because no automatic date change takes place at midnight.
- Pull the crown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






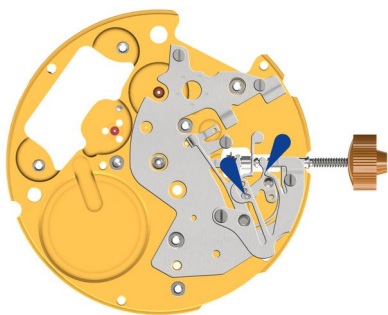
- | | | | |
|---|---|-------------|------------------|
| 1 |  | 2000.675.G | Main plate |
| 2 |  | 3000.189.CO | Working stem |
| 3 |  | 3001.056.FI | Sliding pinion D |
| 4 |  | 9020 | Moebius 9020 |







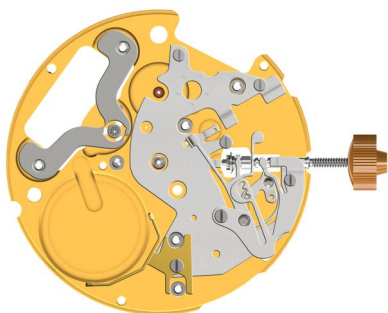
- | | | | |
|---|---|----------|-------------------------|
| 5 |  | 2130.252 | Setting mechanism cover |
| 6 |  | 4000.321 | Screw |
| 7 |  | 4000.321 | Screw |
| 8 |  | 4000.321 | Screw |
| 9 |  | 3015.083 | Bottom yoke |







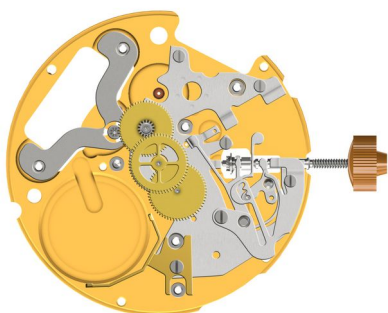
- | | | | |
|----|---|-------------|---------------|
| 10 |  | 3017.056.CO | Setting lever |
| 11 |  | 3015.082 | Yoke |
| 12 |  | 8200 | Moebius 8200 |

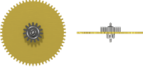




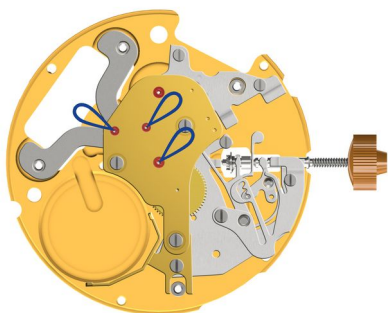
- | | | | |
|----|---|----------|--|
| 13 |  | 3905.069 | Setting lever jumper
Tensioning the spring arm. |
| 14 |  | 4000.312 | Screw |
| 15 |  | 4000.328 | Screw |
| 16 |  | 8200 | Moebius 8200 |








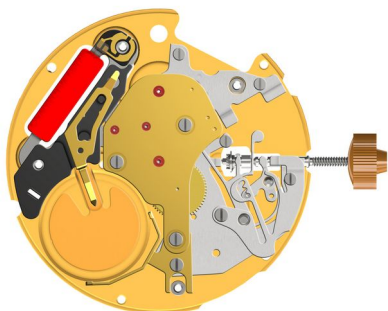
- | | | | |
|----|---|-------------|-------------------|
| 17 |  | 3601.117.G | Battery clamp (+) |
| 18 |  | 4000.244 | Screw |
| 19 |  | 3622.042 | Stator |
| 20 |  | 3715.103.RK | Rotor |







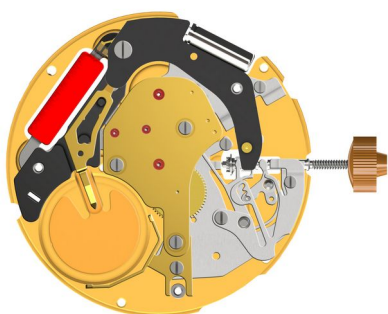
- | | | | |
|----|---|-------------|----------------------------|
| 21 |  | 3147.056.CO | Intermediate wheel |
| 22 |  | 3122.059.CO | Third wheel |
| 23 |  | 3136.164.CO | Center second wheel (Aig.) |





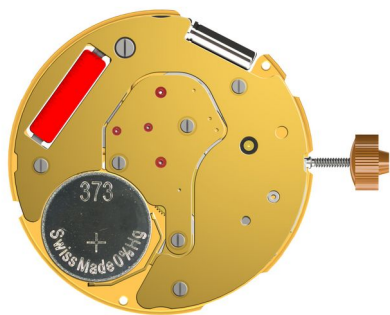
24		2020.180.G	Train wheel bridge
25		4000.279	Screw
26		4000.279	Screw
27		4000.279	Screw
28		9014	Moebius 9014








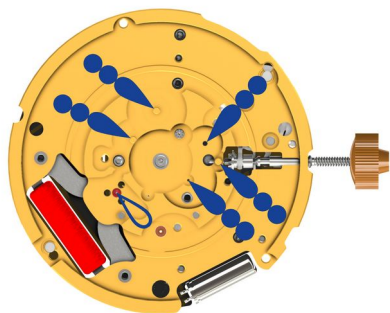
29		3621.060.RK	Coil Attention: Please hold the coil only on the grey coil core.
30		3603.075	Battery insulator
31		3603.074	Bridge (-) insulator
32		3601.116	Bridge -




33		3612.270.RK	Electronic module
34		4000.318	Screw




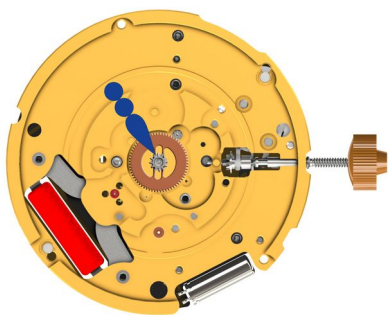
35		2130.168.G.M01.6003D	Electronic module cover
36		4000.102	Screw
37		4000.102	Screw
38		4000.102	Screw
39		3600.031.HGF	Battery 373 (Ø 9.45 x 1.65)




40		9020	Moebius 9020
----	---	------	--------------

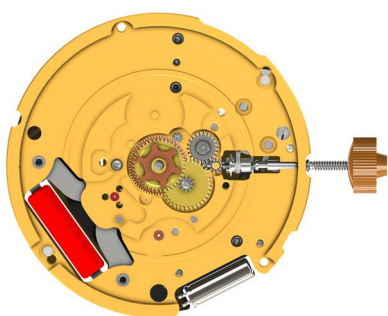




41		9020	Moebius 9020
----	---	------	--------------





42   3305.344.CO Cannon pinion (Aig.)

43  9020 Moebius 9020

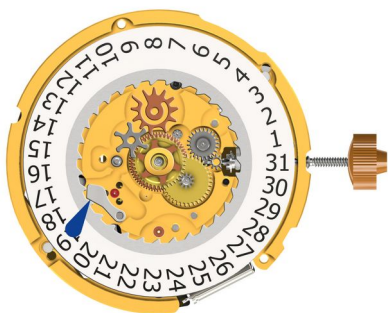



44   3004.253.FI Setting wheel

45   3004.252.FI Intermediate setting wheel

46   3007.087.CO Minute wheel


47   3301.334.CO Hour wheel (Aig.)





48  3315.001 Friction spring

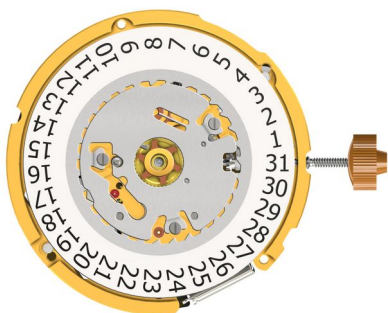
49  3147.084 Date intermediate setting wheel






50  3004.235 Date indicator driving wheel D

51  3504.239.AA.1.A Date indicator (T3, G3)
Nick of the indicator at 3 o'clock.

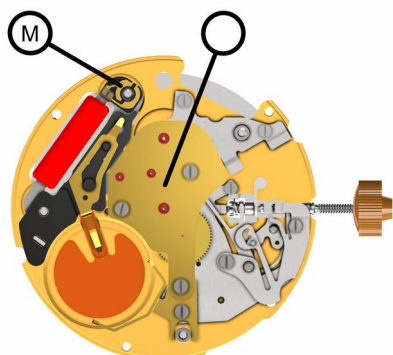
52  3500.077 Date jumper

53  8200 Moebius 8200

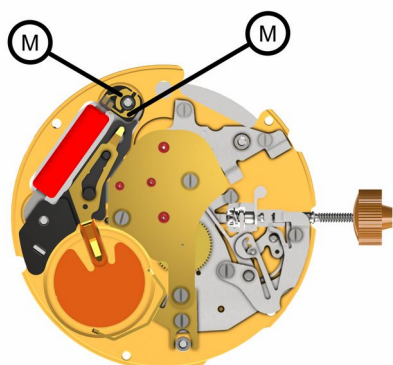


54		3905.103	Date jumper spring
55		2130.217	Date indicator maintaining plate
56		4000.300	Screw
57		4000.300	Screw
58		4000.300	Screw

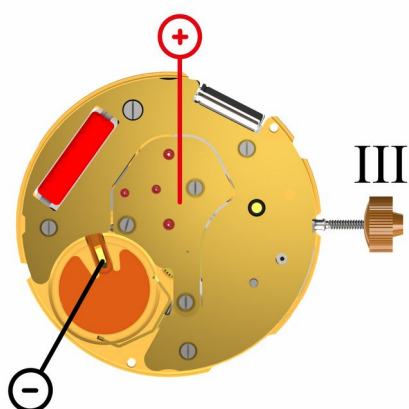
Measurement



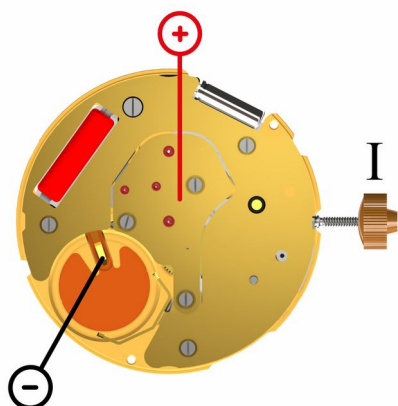
Coil insulation
infinite



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



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

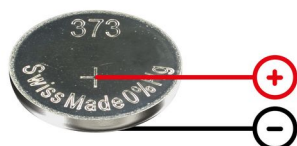
(typ./max.) 1.03 / 1.85 μ A

60s measuring interval

-10 .. +20 s/mth

Lower working voltage limit

<1.20 V



Voltage

typ 1.5V