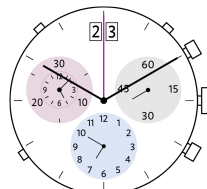


Caliber 5130.B – 12½"



Product Specifications

Analog quartz movement

Line startech

Caliber 5130.B

Size 12½"

Version Swiss Made 13 Jewels / gold plated

Standard battery life 48 months

Standard hand fitting height 2

Features

- Repairable metal watch movement
- Power saving mechanism with pulled out stem:
Reduction of consumption approximately 70%
- Very easy handling by two pushers
- Big date with quick change

Functions

- 30 minute / 12 hour counter
- Center stop second (1/1 sec)
- 12 hour counter
- ADD and SPLIT functions
- Chronograph
- Alarm
- Big date
- Small second

Quartz Movements

Chronographs

RONDA startech

Caliber 5130.B – 12½"

Technical Specifications

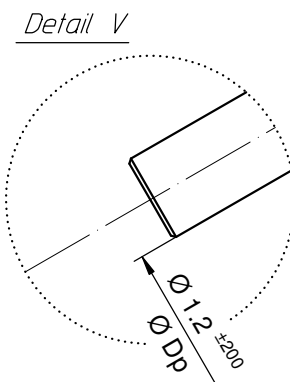
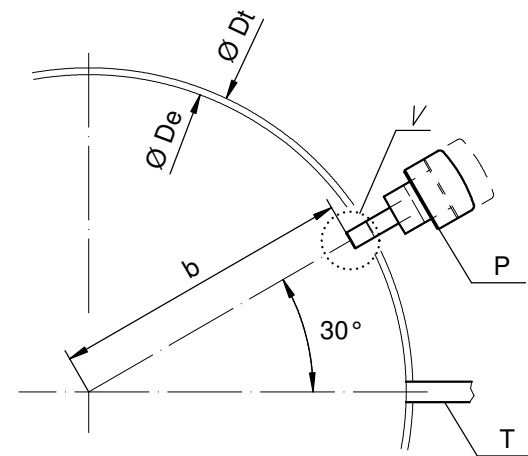
Diameter Total	28.60 mm
Case fitting	28.00 mm
Movement height	4.40 mm
Height over standard battery	4.40 mm
Movement rest	0.60 mm
Height over stem	1.90 mm
Length of stem travel	0.90 mm
Stem thread	0.90 mm
Useful torque second – typical	6 µNm
Useful torque minute – typical	300 µNm
Useful torque center stop second – typical	7 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. 395
Standard battery life	48 months
Battery voltage	1.5 V
Current consumption – typical	1.48 µA (Date Mechanism not in Gear)
Current consumption – maximum	1.65 µA (Date Mechanism not in Gear)

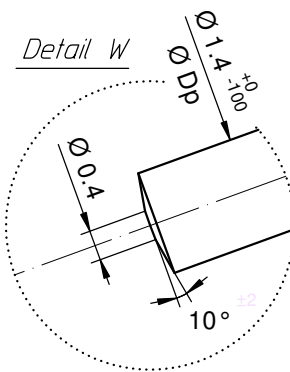
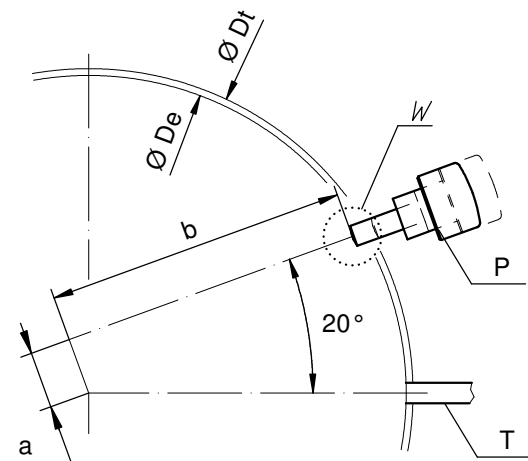
Angle Winkel Angle	30°	
Ø Dp	b	
1.00	13.50	
1.10	13.50	
1.20	13.50	
1.30	13.50	
1.40	13.50	



Angle Winkel Angle	0°	
Ø Dp	a	b
1.30	7.40	11.43
1.40	7.45	11.40



Angle Winkel Angle	20°	
Ø Dp	a	b
1.30	2.57	13.22
1.40	2.59	13.21



Ø De: diamètre d'encageage
Durchmesser der Gehäusepassung
fitting-diameter

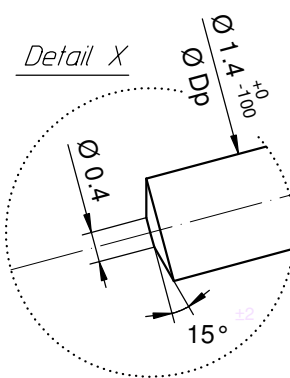
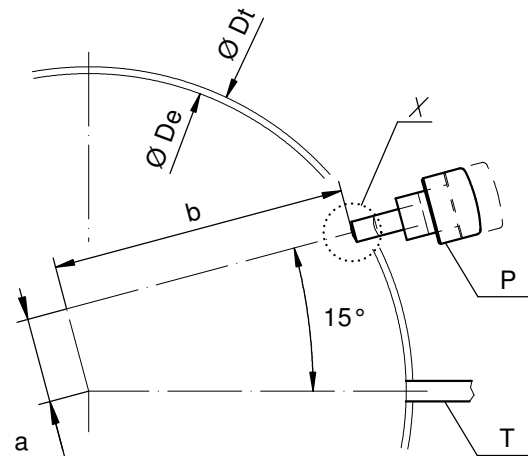
Ø Dp: diamètre du poussoir
Drückerdurchmesser
pusher-diameter

Ø Dt: diamètre total
Totaldurchmesser
total-diameter

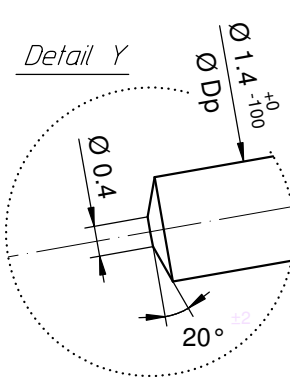
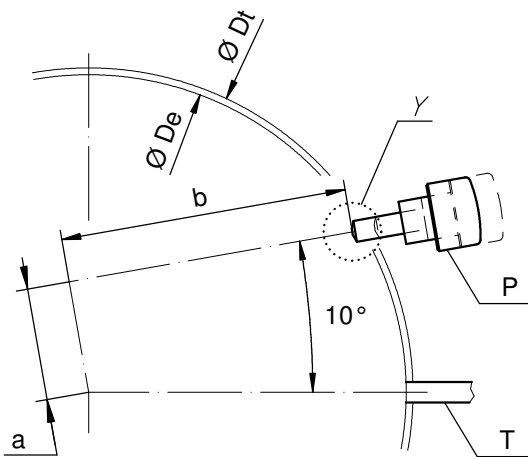
P: poussoir en position poussée
Drücker in gedrückter Stellung
pusher in pressed position

T: tige de mise à l'heure
Stellwelle
stem

Angle Winkel Angle	15°	
Ø Dp	a	b
1.30	3.83	12.92
1.40	3.86	12.91



Angle Winkel Angle	10°	
Ø Dp	a	b
1.30	5.06	12.52
1.40	5.10	12.50

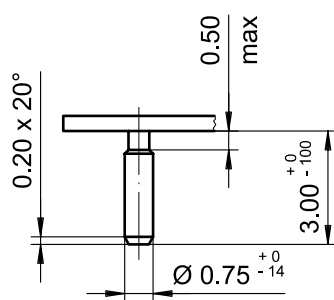
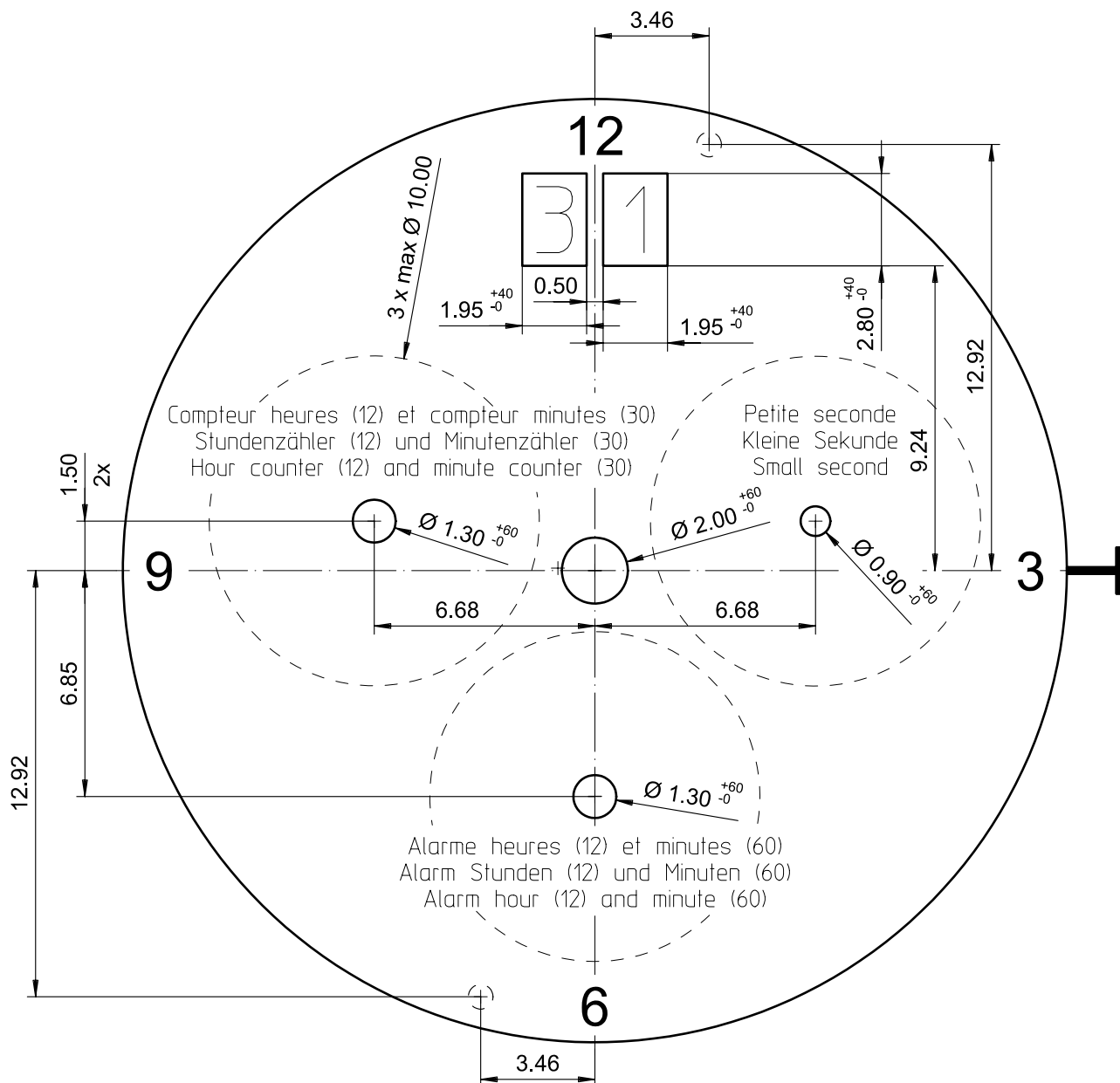


Angle des poussoirs A et B
Winkel der Drücker A und B
Angle of pusher A and B

RONDA

4xxx.x, 5xxx.x

Issued	06 Sep 2004	mk
Modified	30.März 2005 ÄA 1784	mk
Released	YES	
Tolerance	+/- 20 µm	
Scale	10 : 1 (5 : 1) (A3H)	
Sous réserve de modifications Äenderungen vorbehalten Modifications reserved		
No.	5000.345	01



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

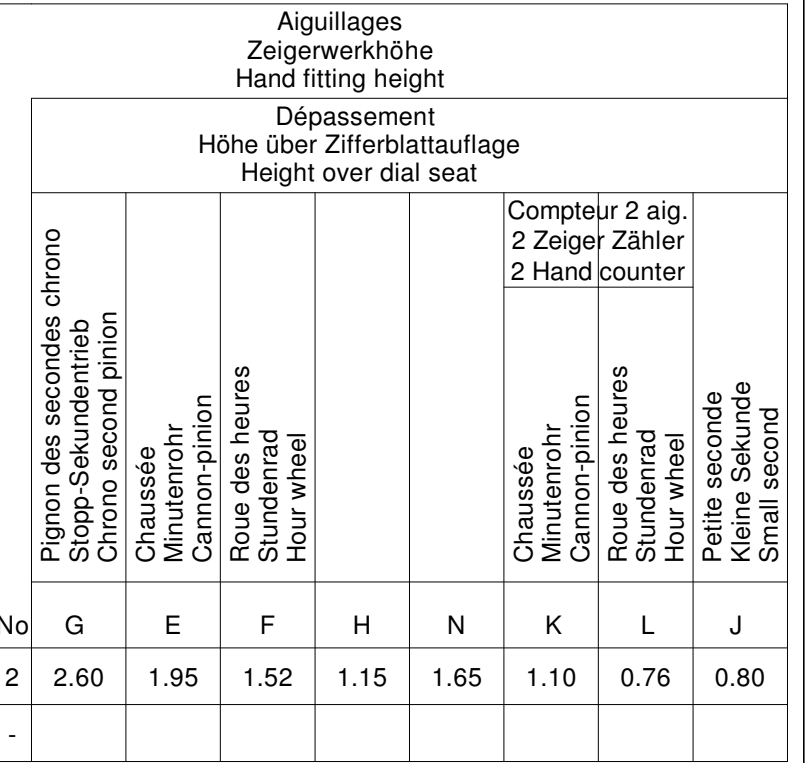
Cadran
Zifferblatt
Dial

12 1/2"

Issued	13 Dez 2006	cw
Modified	11.Apr.2007 ÄÄ ----	cw
Released	YES	
Tolerance	+/- 20 µm	
Scale	5 : 1 (A4V)	
Sous réserve de modifications Äenderungen vorbehalten Modifications reserved		
No.	5010.620	00

RONDA

5130.B



Aiguillages Zeigerwerkhöhe Hand fitting height							
Peinture comprise / inkl. Farbe / Paint included							
Epaisseur maximum du cadran Maximale Zifferblattdicke Maximum dial thickness							Epaisseur des aiguilles Zeigerdicke Hands thickness
No	Sous l'aiguille des secondes chrono Unter Stopp-Sekundenzeiger Under chrono second hand	Sous l'aiguille des minutes Unter Minutenzeiger Under minute hand	Sous l'aiguille des heures Unter Stundenzeiger Under hour hand	Compteur 2 aig. 2 Zeiger Zähler 2 Hand counter		Sous l'aiguille de petite seconde Unter kleine Sekundenzeiger Under small second hand	
				Sous l'aiguille des minutes Unter Minutenzeiger Under minute hand	Sous l'aiguille des heures Unter Stundenzeiger Under hour hand		
2	2.10	1.55	1.10	0.70	0.40	0.40	0.15
-							

Aiguillages Zeigerwerkhöhe 12½" Hand fitting heights		Issued	14 Nov 2003	mk
		Modified	15 Okt 2014 ÄA 13275	dh
		Released	Yes	
		Tolerance	µm	
		Scale	20 : 1 (A3H)	
RONDA	5020.B, 5130.D, 5130.B	Sous réserve de modifications Änderungen vorbehalten Modifications reserved		
		No.	3316.081	07

* 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
3000.177.CO	20.00	10.23	24.23	10.15	0.90	1.10



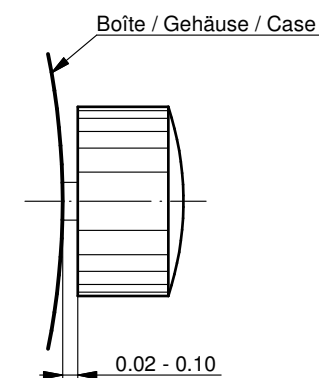
Couleur de la couronne Kronenfarbe Crown color	bleu foncé dunkelblau dark blue
Code	UN 5002

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

No. d'article Artikelnummer Part number	L	L1	L2	L3	S	D
3000.177	20.00	10.23	24.23	10.15	0.90	1.10
3000.191	32.00	22.23	36.23	22.15	0.90	1.10



Couronne normale
Normale Krone
Normal crown

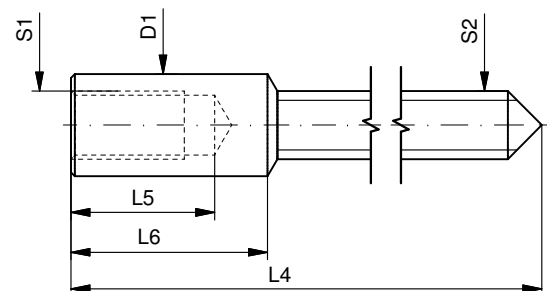


Couronne vissée
Geschraubte Krone
Screwed crown

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

5010.B, 5020.B, 5021.D, 5030.D,
5040.B, 5040.D, 5040.E, 5040.F,
5050.B, 5050.C, 5051.C, 5130.B, 5130.D

Issued	05 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.	5030.019	01
-----	----------	----



Movement holder
Removing setting stem
H5XXX.1T



Movement holder
Setting hands
H5XXX.1A4



PCB-Alarm
Installing Piezo function for
H5XXX.1A4
H5XXX.1P

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
- Zero chronograph hand*
- Crown in position II
- Set alarm reference time**
- Set date
- Crown in position I

Date switching duration

First and tenth digit discs

~2hrs

*Zeroing chronograph hand

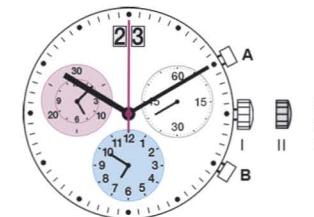
- Activate pushers A and B together for 2 seconds
(Chrono seconds hand rotates once)
- Pusher A → to correct chrono seconds hand
- Pusher B → to jump to hour and minute hand
- Pusher A → to correct hand position

Details: See Instruction Manual

**Setting alarm reference time

- Press pusher B for at least 2 secs (activates reference time mode)
- Using pusher B, synchronise reference time with actual time:
 - Short press (< 1 sec.) → +1 minute
 - Medium press (1-2 secs) → +1 hour
 - Long press (> 2 secs) → continuous

Details: See Instruction Manual



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.

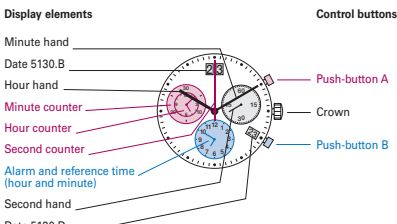
Alarm reference time tip

The reference time runs in the background, behind the watch time, on which the ALARM time is based. So with every new time setting, the reference time must be freshly synchronised.

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.

Description of the display and control buttons



01

Multifunction movement

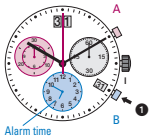
The **alarm** and **chronograph** are combined in Cal. 5130.D and 5130.B. All functions can be operated with the 2 push-buttons and crown.

Initial status (chronograph hands at zero position)
– start the **chronograph** with **push-button A**
– switch the **alarm** on and off with **push-button B**

Chronograph active
Push-button B is also operative for the chronograph as soon as timing is started with push-button A.
At the end of timing and when the chronograph hands are reset to the zero positions the push-button functions once again assume their «initial status».

The alarm cannot be adjusted when the chronograph is active.

02



07

Switching the alarm on/off

- 1 The alarm is switched on/off by briefly pressing the push-button B:
- 2 beeps → alarm switched on
- 1 beep → alarm switched off

Please note:
The alarm can be set maximum 12 hours before the desired alarm time.
Once the set alarm time has been reached, a signal is emitted for 20 seconds. This signal is repeated after two minutes. Following brief pressing of the push-button B, the signal is immediately switched off.

Setting the reference time

- 1 Pull out the crown to position III (second hand stops. The display changes from alarm time to reference time.)
- 2 **Activating the setting mode**
Press the push-button B for at least 2 seconds. As soon as the small minute hand jumps forwards one minute, this mode is active.
- 3 **Short pressing** (less than 1 second): the reference time is moved forwards by the minute.
Medium pressing: (1–2 seconds): the reference time is moved forwards by the hour.
Long pressing (longer than 2 seconds): the reference time is moved forwards until the push-button is released.

Please note:
The reference time must display the same time as the current time. This means that resetting the current time also requires the identical correction of the reference time. Afterwards, the alarm time has to be reset.

What is the reference time?

The current time is displayed by means of the hour and minute hand.

Parallel to the current time, the reference time runs in the background: the alarm time refers itself to this reference time. Thus, resetting the time also requires the identical correction of the reference time.

If the reference time is not synchronised with the current time, this results in the alarm signal being emitted at a different time to the set alarm time.

08

Setting the time

- 1 * Pull out the crown to position III (the watch stops).
- 2 Turn the crown until you reach the correct time 8:45.
- 3 * Push the crown back into position I.

Please note:
* In order to set the time to the exact second, 1 must be pulled out when the second hand is in position «60». Once the hour and minute hands have been set, 3 must be pushed back into position I at the exact second.

Setting the date (quick mode)

- 1 Pull out the crown to position II (the watch continues to run).
- 2 Turn the crown until the correct date 01 appears.
- 3 Push the crown back into position I.

Please note:
The date of the following day must be set in the calendar changing phase between approx. 9 PM and midnight.
5130.B: Setting the date too quickly in quick mode can result in the incorrect date being displayed. Switching the date between 01 and 31 (position II) restores the synchronisation.

Setting the time and date

Example:
– Date / time on the watch: 17 / 1:25 AM
– Present date / time: 04 / 10:39 PM

- 1 Pull out the crown to position II (watch continues to run).
- 2 Turn the crown until yesterday's date appears 03.
- 3 Pull out the crown to position III (the second hand stops. The display changes from alarm time to reference time.)
- 4 Turn the crown until the correct date 04 appears.
- 5 Continue to turn the crown until the current time 10:39 PM appears.
- 6 Push the crown back into position I (the display changes from reference to alarm time).

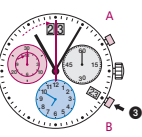
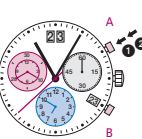
Please note:
Resetting the time also requires the identical correction of the reference time. Please refer to «setting the reference time».

* Please observe the AM/PM clock rhythm.

Setting the alarm time

- 1 **Activate the setting mode**
Press the push-button B for at least 2 seconds. As soon as the small minute hand jumps forward 1 minute, this mode is active.
- 2 **Setting**
Short pressing (less than 1 second): the alarm time is moved forward by the minute.
Long pressing (longer than 2 seconds): the alarm time is moved forward until the push-button is released.

Please note:
If the push-button B is not activated for 10 seconds, the setting mode of the alarm time deactivates itself. At the same time, 2 beeps are emitted to indicate that the alarm is switched on.



09

Chronograph: Basic function

(Start / Stop / Reset)

- Example:
1 **Start:** Press push-button A.
- 2 **Stop:** to stop the timing, press pushbutton A once more and read the chronograph counters:
4h / 20 min / 38 sec
- 3 **Zero positioning:**
Press push-button B. (The chronograph hands will be reset to their zero positions.)

Please note:
The alarm cannot be used as long as the chronograph is in operation.

Chronograph: Accumulated timing

- Example:
1 **Start:** (start timing)
- 2 **Stop:** (e.g. 15 min 5 sec following 1)
- 3 **Restart:** (timing is resumed)
- 4 * **Stop:** (e.g. 5 min 12 sec following 3) = 20 min 17 sec
(The accumulated measured time is shown)
- 5 **Reset:**
The chronograph hands are returned to their zero positions.

Please note:
* Following 4, the accumulation of the timing can be continued by pressing push-button A (Restart / Stop, Restart / Stop, ...).

Chronograph: Intermediate or interval timing

- Example:
1 **Start:** (start timing)
- 2 **Display interval:**
e.g. 20 minutes 17 seconds (timing continues in the background)
- 3 **Making up the measured time:**
(the chronograph hands are quickly advanced to the ongoing measured time).
- 4 **Stop:** (Final time is displayed)
- 5 **Reset:**
The chronograph hands are returned to their zero position

Please note:
* Following 3, further intervals or intermediates can be displayed by pressing push-button B (display interval / make up measured time, ...).

Adjusting the chronograph hands to zero position

Example:
One or several chronograph hands are not in their correct zero positions and have to be adjusted (e.g. following a battery change).

- 1 Pull out the crown to position III (all chronograph hands are in their correct or incorrect zero position. The display changes from alarm time to reference time.)
- 2 Keep push-buttons A and B depressed simultaneously for at least 2 seconds (the second counter hand rotates by 360° → corrective mode is activated.)

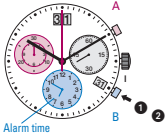
Adjusting the second counter hand
Single step A 1 x short
Continuous A long

Adjusting the next hand B

Adjusting the minute counter hand and the hour counter hand
(mechanical coupled)
Single step A 1 x short
Continuous A long

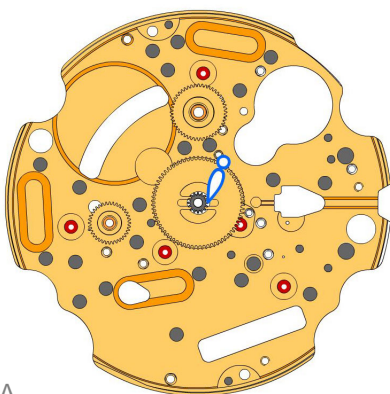
- 3 Returning the crown to position I
Termination of the chronograph hands adjustment (can be carried out at any time. The display changes from reference to alarm time.)

12

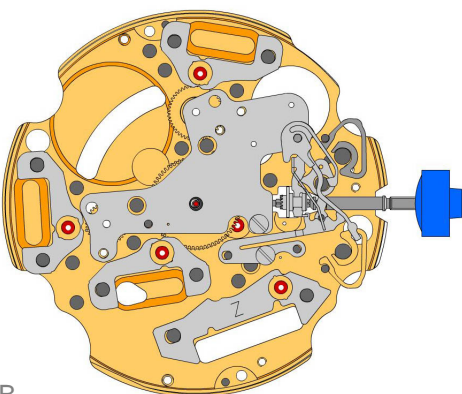


Please note:
The alarm cannot be used as long as the chronograph is in operation.





06


















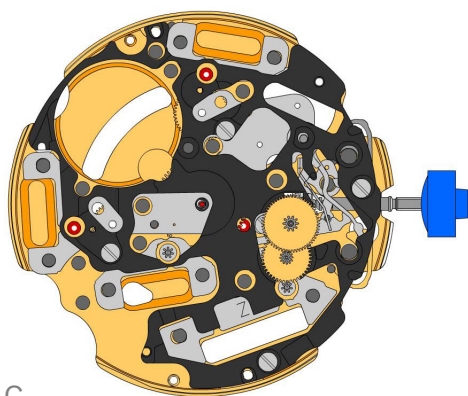
A



B

2000.574.G 1.		Main plate
3305.282.CO 2.		Cannon pinion with driver (Aig.2)
3301.244.CO 3.		Hour wheel (counter 24h) (Chrono)
3301.243.CO 4.		Hour wheel (counter 12h) (Alarm)

2030.017.CO 5.		Centre bridge Centre bridge held by 1 screw 4000.250. Parts 2030.017.CO, 3004.223 and 3500.059 must be exchanged together.
4000.250 6.		Screw
3001.055.FI 7.		Sliding pinion
3000.177.CO 8.		Setting stem
3017.049 9.		Setting lever
3905.049 10.		Setting lever jumper (3 positions) Setting lever jumper held by 1 screw 4000.250.
4000.250 11.		Screw
3015.081 12.		Yoke (3 positions) Parts 3015.081 and 3905.067 must be exchanged together.
3905.067 13.		Yoke spring Tensioning the spring arm. Parts 3015.081 and 3905.067 must be exchanged together.
3406.030 14.		Pusher jumper B Put the grey jumper between the two posts on the further side.
3406.038 15.		Pusher jumper A Put the yellow jumper between the two posts on the closer side.
3622.040 16.		Stator Mark [Z] on stator.
3622.039 17.		Stator (counter 6h, 9h, chrono)
3622.039 18.		Stator (counter 6h, 9h, chrono)
3622.039 19.		Stator (counter 6h, 9h, chrono)



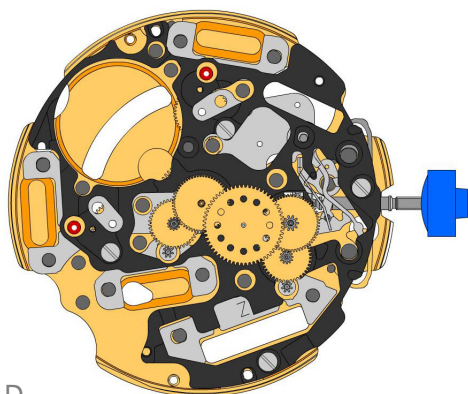
C

3603.079
20.  Plastic bracket
Plastic bracket held by 4 screws 4000.250.

4000.250
21.  Screw

3715.094.RK
22.  Rotor


3715.094.RK
23.  Rotor




D

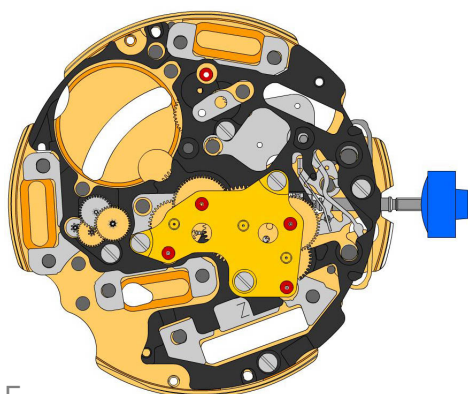
3147.046.CO
24.  Intermediate wheel

3136.142.CO
25.  Second wheel (long)


3147.047.CO
26.  Intermediate wheel (chrono)

3136.144.CO
27.  Chronograph wheel (Aig.2)


3122.056.CO
28.  Third wheel




E

2020.148.G
29.  Train wheel bridge
Train wheel bridge held by 3 screws 4000.250.

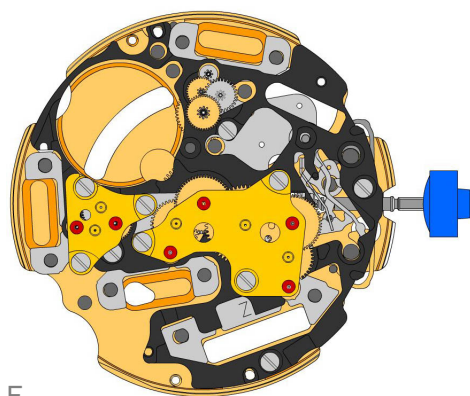
4000.250
30.  Screw

3715.095.RK
31.  Rotor


3147.048.CO
32.  Intermediate wheel (counter)

3007.056.CO
33.  Minute wheel (counter 24h)

3402.008.CO
34.  Minute counting wheel




F


2020.149.G
35.  Counter train wheel bridge
Train wheel bridge held by 3 screws 4000.250.

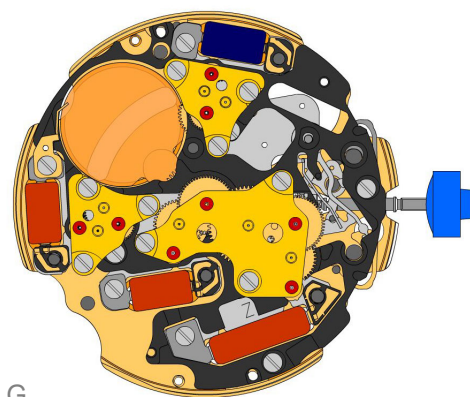
4000.250
36.  Screw

3715.095.RK
37.  Rotor


3147.048.CO
38.  Intermediate wheel (counter)

3007.055.CO
39.  Minute wheel (counter 12h)


3402.007.CO
40.  Minute counting wheel





G


2020.149.G
41.  Counter train wheel bridge
Train wheel bridge held by 3 screws 4000.250.

4000.250
42.  Screw

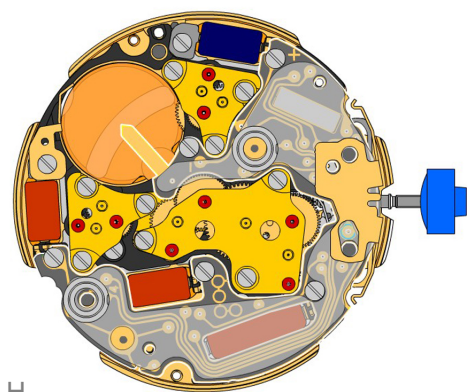
3621.053.RK
43.  Coil
Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.

3621.054.RK
44.  Coil (counter 9h, chrono)
Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.

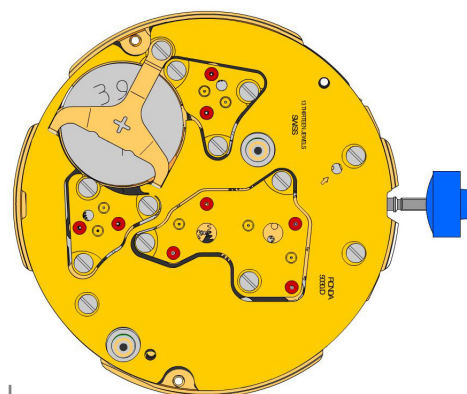
3621.054.RK
45.  Coil (counter 9h, chrono)
Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.

3621.055.RK
46.  Coil (counter 6h)
Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.














4000.250
47.  Screw

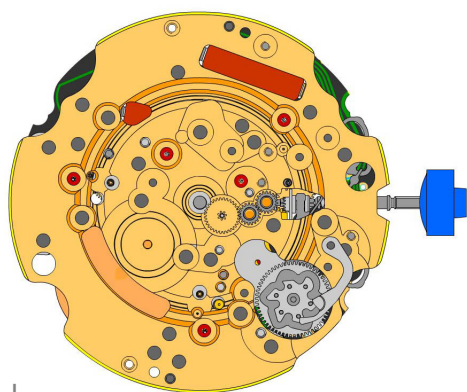


H

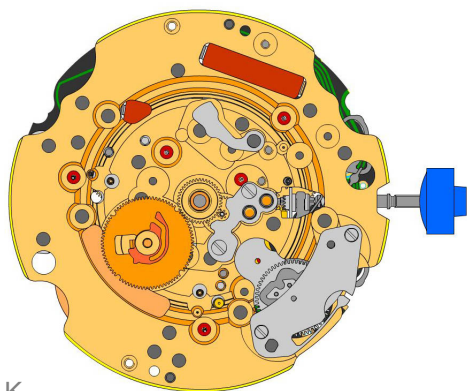


I















3601.118 48.		Contact strip Contact strip held by 1 screw 4000.250.
4000.250 49.		Screw
3603.034 50.		Battery insulator
3612.176.5130 51.		Electronic module Electronic module held by 5 screws 4000.248. Electronic measurements may be realised now.
4000.248 52.		Screw
3603.069 53.		Circuit insulator
3603.070 54.		Contact insulator
3603.070 55.		Contact insulator
3601.107.G 56.		Pusher contact spring
2130.159.G.M01.5130B 57.		Electronic module cover Electronic module cover held by 1 screw 4000.250.
3600.010.HGF 58.		Battery 395
3601.109.G 59.		Bridle + Bridle held by 1 screw 4000.250.
4000.250 60.		Screw

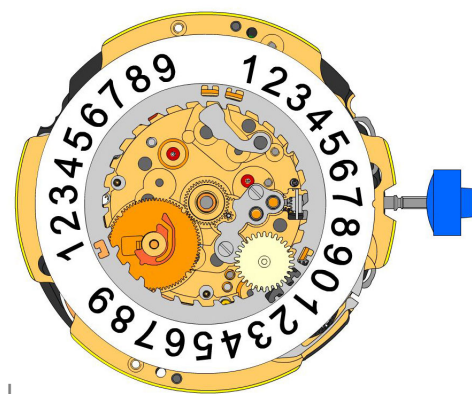


J



K

2000.574.G 61.		Main plate
3004.164 62.		Setting wheel
3004.164 63.		Setting wheel
3007.054.CO 64.		Minute wheel
2130.143 65.		Minute train bridge Minute train bridge held by 3 screws 4000.305.
4000.305 66.		Screw
3004.223 67.		Tens indicator driving wheel Parts 2030.017.CO, 3004.223 and 3500.059 must be exchanged together. The short tooth of the tens indicator driving wheel must point to the center of the movement.
3500.059 68.		Tens jumper Parts 2030.017.CO, 3004.223 and 3500.059 must be exchanged together.
2130.142 69.		Tens jumper maintaining plate Tens jumper maintaining plate held by 2 screws 4000.306. Tensioning the spring arm.
4010.306 70.		Screw
3301.242 71.		Hour wheel (Aig.1)
3315.016 72.		Friction spring
3004.224.CO 73.		Date indicator driving wheel
3500.049 74.		Date jumper



L

3504.214.AF.1.A
75.



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

3147.054
76.



Tens intermediate wheel

2130.141
77.



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

4000.250
78.

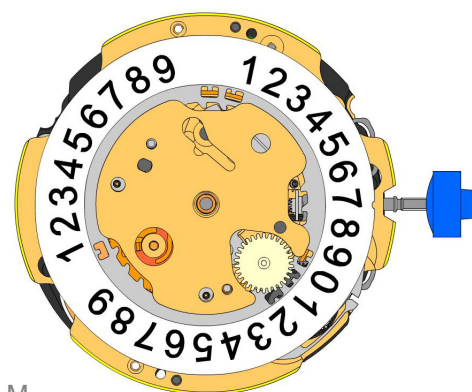


Screw

3905.070
79.



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



M

3504.216.AF.1.A
80.



Tens indicator (standard)
Insert the date jumper spring in the previous opening.

2130.140.G
81.



Date mechanism maintaining plate
Date mechanism maintaining plate held by 2 screws 4000.250.

4000.250
82.

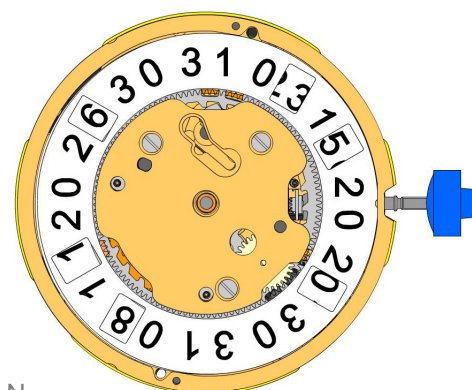


Screw

3506.072.G
83.



Dial support



N

8200
84.



Moebius 8200

9014
85.



Moebius 9014

124
86.



Jismaa 124

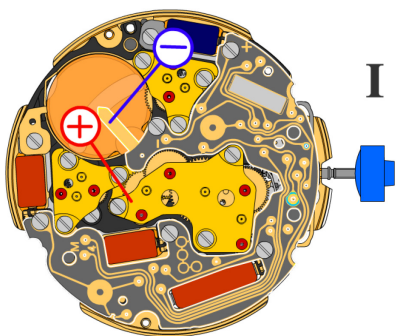
9020
87.



Moebius 9020

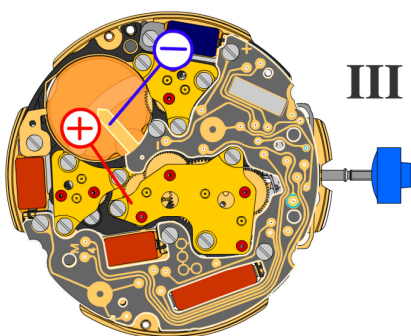


Battery	395
Voltage	1.55 V



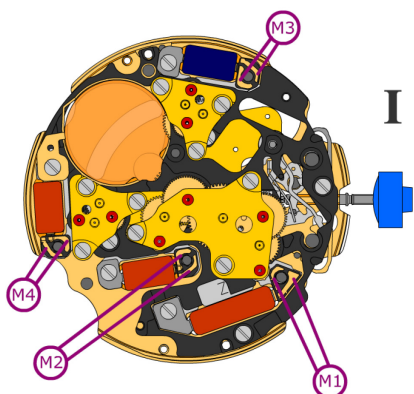
*Setting stem in position I, calendar not in gear,
60 s measuring interval for rate and consumption:*

Typical consumption	1.48 μA
Maximal consumption	1.65 μA
Rate	-10s/M. .. +20s/M.
Lower working voltage limit	1.20 V



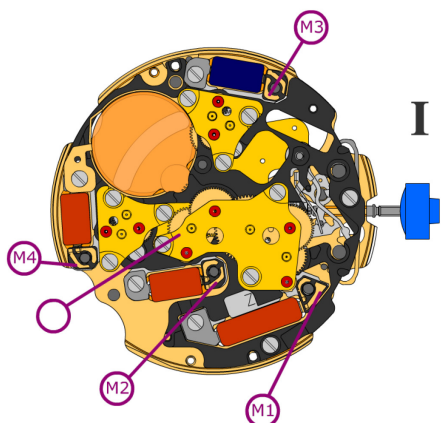
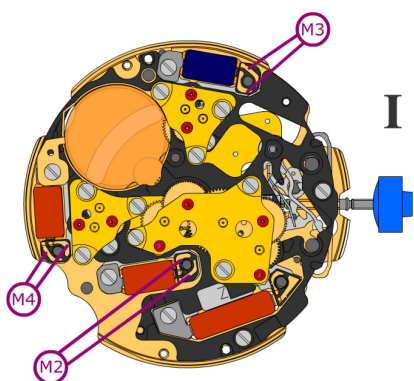
Setting stem in position III, 60 s measuring interval:

Typical consumption	0.10 μA
Maximal consumption	0.30 μA

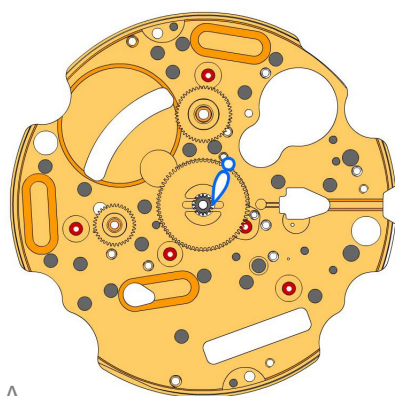

Coil resistance M1 **1.90 k Ω .. 2.10 k Ω**

Coil resistance M2 **1.68 k Ω .. 1.88 k Ω**

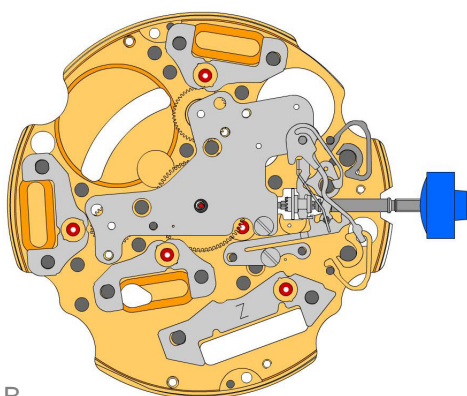
Coil resistance M3 **1.68 k Ω .. 1.88 k Ω**

Coil resistance M4 **1.68 k Ω .. 1.88 k Ω**

Coil isolation M1/M2/M3/M4 **∞ k Ω**

Signal generator (4.9 ms, 8 Hz):





Lower working voltage limit
M2/M3/M4 **1.20 V**


















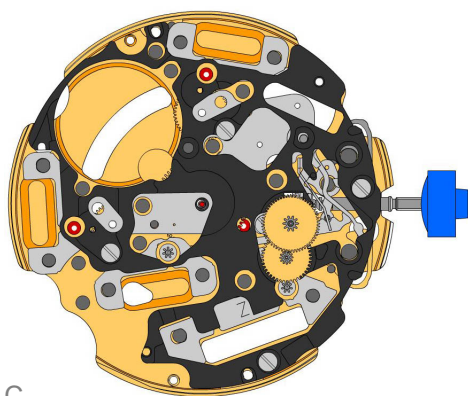
A



B

2000.574.G 1.		Main plate
3305.282.CO 2.		Cannon pinion with driver (Aig.2)
3301.244.CO 3.		Hour wheel (counter 24h) (Chrono)
3301.243.CO 4.		Hour wheel (counter 12h) (Alarm)

2030.024.CO 5.		Centre bridge Centre bridge held by 1 screw 4000.250.
4000.250 6.		Screw
3001.055.FI 7.		Sliding pinion
3000.177.CO 8.		Setting stem
3017.049 9.		Setting lever
3905.049 10.		Setting lever jumper (3 positions) Setting lever jumper held by 1 screw 4000.250.
4000.250 11.		Screw
3015.081 12.		Yoke (3 positions) Parts 3015.081 and 3905.067 must be exchanged together.
3905.067 13.		Yoke spring Tensioning the spring arm.
3406.030 14.		Pusher jumper B Put the grey jumper between the two posts on the further side.
3406.038 15.		Pusher jumper A Put the yellow jumper between the two posts on the closer side.
3622.040 16.		Stator Mark [Z] on stator.
3622.039 17.		Stator (counter 6h, 9h, chrono)
3622.039 18.		Stator (counter 6h, 9h, chrono)
3622.039 19.		Stator (counter 6h, 9h, chrono)



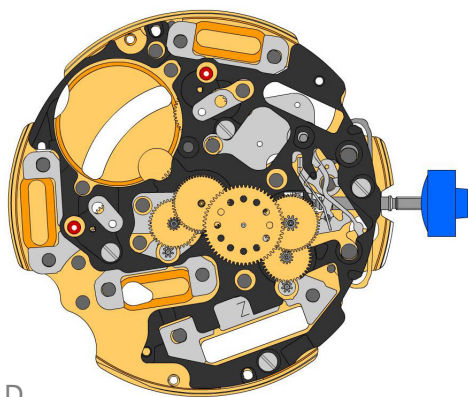
C

3603.079
20.  Plastic bracket
Plastic bracket held by 4 screws 4000.250.

4000.250
21.  Screw

3715.094.RK
22.  Rotor


3715.094.RK
23.  Rotor



D

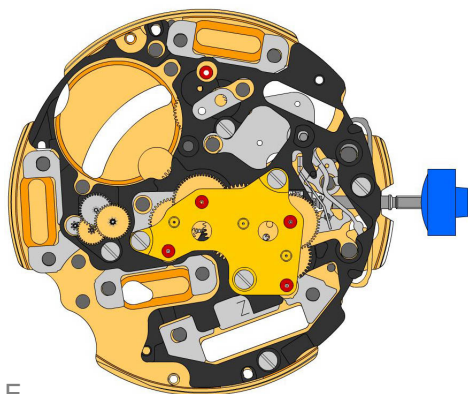
3147.046.CO
24.  Intermediate wheel

3136.142.CO
25.  Second wheel (long)


3147.047.CO
26.  Intermediate wheel (chrono)

3136.144.CO
27.  Chronograph wheel (Aig.2)

3122.056.CO
28.  Third wheel



E


2020.148.G
29.  Train wheel bridge
Train wheel bridge held by 3 screws 4000.250.

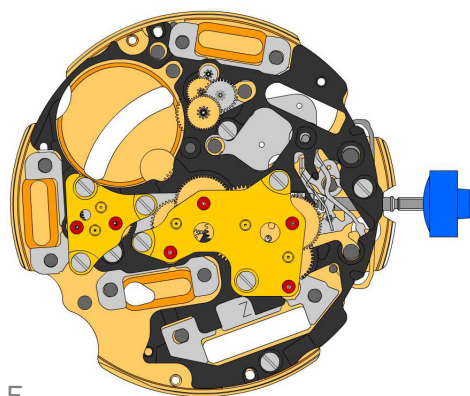
4000.250
30.  Screw

3715.095.RK
31.  Rotor


3147.048.CO
32.  Intermediate wheel (counter)

3007.056.CO
33.  Minute wheel (counter 24h)

3402.008.CO
34.  Minute counting wheel



F


2020.149.G
35.  Counter train wheel bridge
Train wheel bridge held by 3 screws 4000.250.

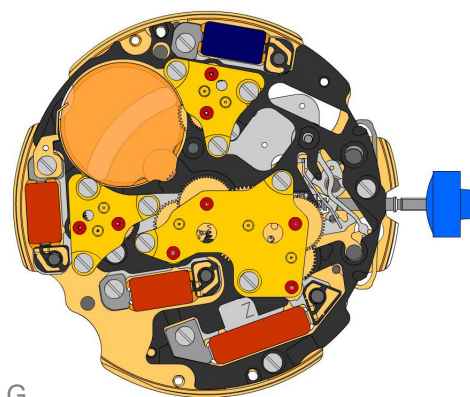
4000.250
36.  Screw

3715.095.RK
37.  Rotor


3147.048.CO
38.  Intermediate wheel (counter)

3007.055.CO
39.  Minute wheel (counter 12h)


3402.007.CO
40.  Minute counting wheel





G


2020.149.G
41.  Counter train wheel bridge
Train wheel bridge held by 3 screws 4000.250.

4000.250
42.  Screw

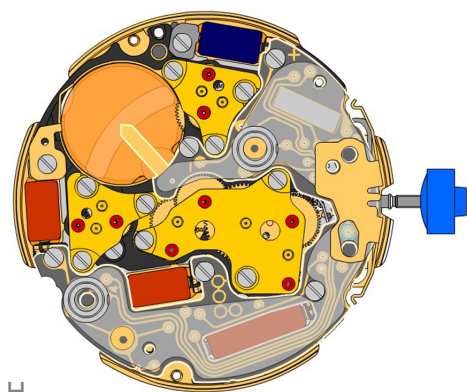
3621.053.RK
43.  Coil
Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.

3621.054.RK
44.  Coil (counter 9h, chrono)
Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.

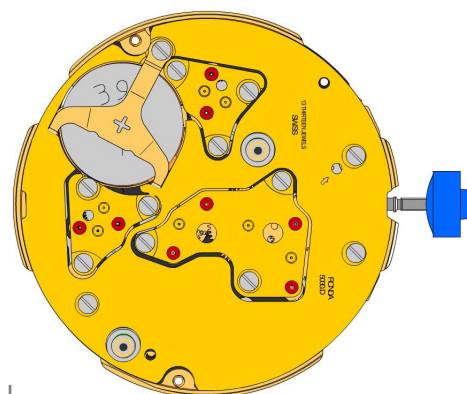
3621.054.RK
45.  Coil (counter 9h, chrono)
Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.

3621.055.RK
46.  Coil (counter 6h)
Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.














4000.250
47.  Screw

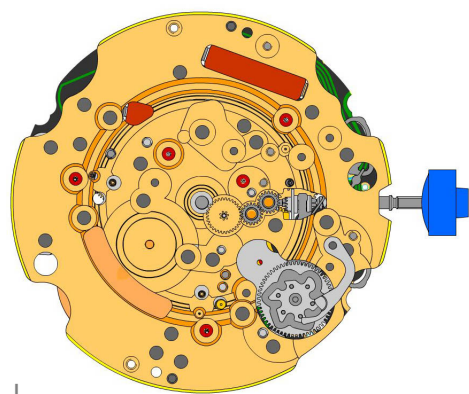


H

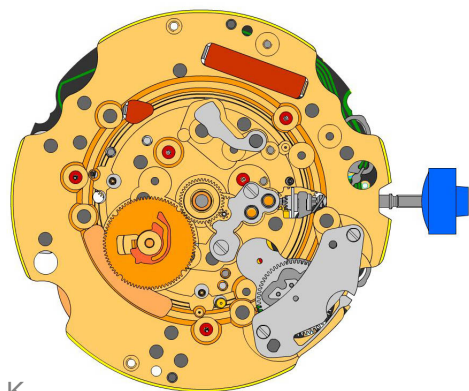


I















3601.118 48.		Contact strip Contact strip held by 1 screw 4000.250.
4000.250 49.		Screw
3603.034 50.		Battery insulator
3612.176.5130 51.		Electronic module Electronic module held by 5 screws 4000.248. Electronic measurements may be realised now.
4000.248 52.		Screw
3603.069 53.		Circuit insulator
3603.070 54.		Contact insulator
3603.070 55.		Contact insulator
3601.107.G 56.		Pusher contact spring
2130.159.G.M01.5130B 57.		Electronic module cover Electronic module cover held by 1 screw 4000.250.
3600.010.HGF 58.		Battery 395
3601.109.G 59.		Bridle + Bridle held by 1 screw 4000.250.
4000.250 60.		Screw

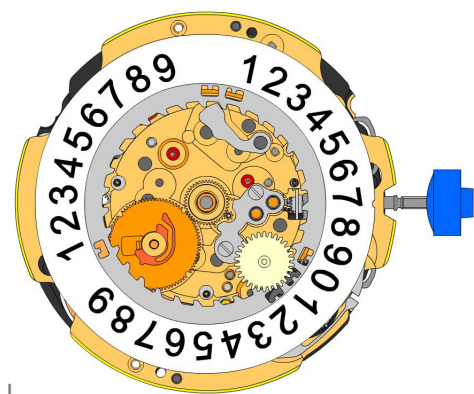


J



K

2000.574.G 61.		Main plate
3004.164 62.		Setting wheel
3004.164 63.		Setting wheel
3007.054.CO 64.		Minute wheel
2130.143 65.		Minute train bridge Minute train bridge held by 3 screws 4000.305.
4000.305 66.		Screw
3004.227 67.		Tens indicator driving wheel The short tooth of the tens indicator driving wheel must point to the center of the movement.
3500.075 68.		Tens jumper
2130.142 69.		Tens jumper maintaining plate Tens jumper maintaining plate held by 2 screws 4000.306. Place the spring loaded bracket outside of the tens jumper.
4010.306 70.		Screw
3301.242 71.		Hour wheel (Fig.1)
3315.016 72.		Friction spring
3004.224.CO 73.		Date indicator driving wheel
3500.049 74.		Date jumper



L

3504.214.AF.1.A
75.



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

3147.054
76.



Tens intermediate wheel

2130.141
77.



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

4000.250
78.

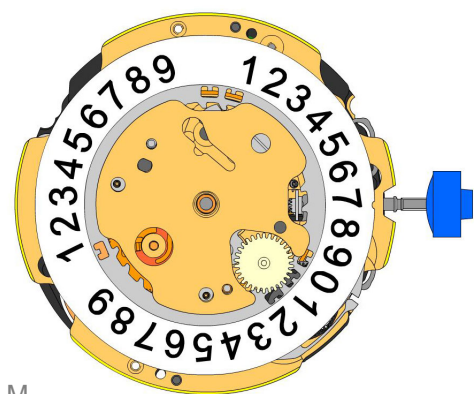


Screw

3905.070
79.



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



M

3504.216.AF.1.A
80.



Tens indicator (standard)
Insert the date jumper spring in the previous opening.

2130.140.G
81.



Date mechanism maintaining plate
Date mechanism maintaining plate held by 2 screws 4000.250.

4000.250
82.

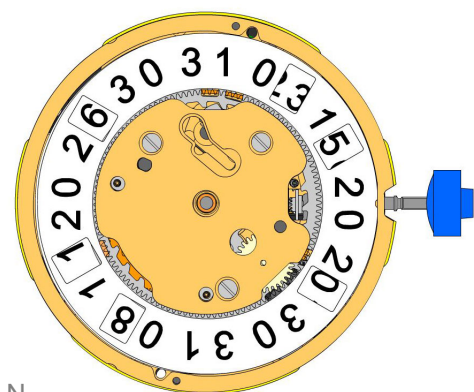


Screw

3506.072.G
83.



Dial support



N

8200
84.



Moebius 8200

9014
85.



Moebius 9014

124
86.



Jismaa 124

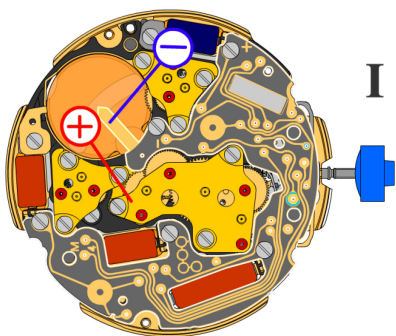
9020
87.



Moebius 9020

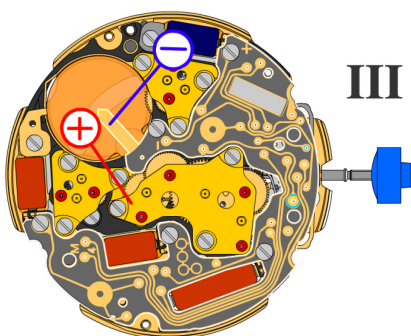


Battery	395
Voltage	1.55 V



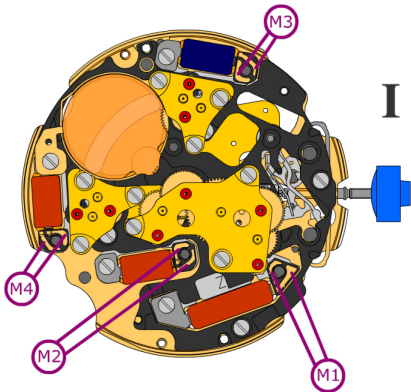
*Setting stem in position I, calendar not in gear,
60 s measuring interval for rate and consumption:*

Typical consumption	1.48 μA
Maximal consumption	1.65 μA
Rate	-10s/M. .. +20s/M.
Lower working voltage limit	1.20 V



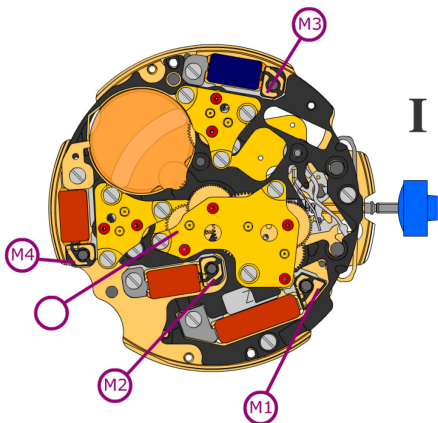
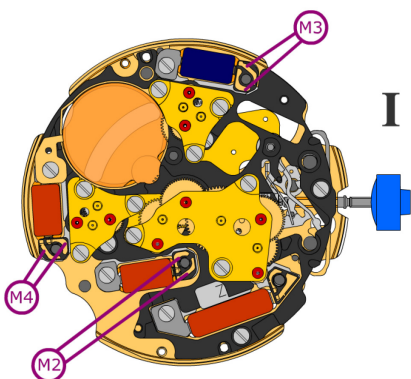
Setting stem in position III, 60 s measuring interval:

Typical consumption	0.10 μA
Maximal consumption	0.30 μA


Coil resistance M1 **1.90 k Ω .. 2.10 k Ω**

Coil resistance M2 **1.68 k Ω .. 1.88 k Ω**

Coil resistance M3 **1.68 k Ω .. 1.88 k Ω**

Coil resistance M4 **1.68 k Ω .. 1.88 k Ω**

Coil isolation M1/M2/M3/M4 **∞ k Ω**

Signal generator (4.9 ms, 8 Hz):

Lower working voltage limit
M2/M3/M4 **1.20 V**