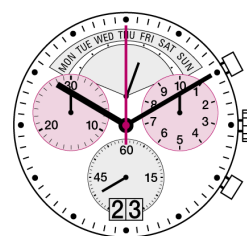


RONDA mastertech 8000

XXL Chronographs,
Retrograde and Big Date

Caliber 8040.N – 15'''



Product Specifications

Analog quartz movement	
Line	mastertech
Caliber	8040.N
Size	15'''
Version	Swiss Made
Standard battery life	13 Jewels / gold plated
Hand fitting height	48 months
	1

Features

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

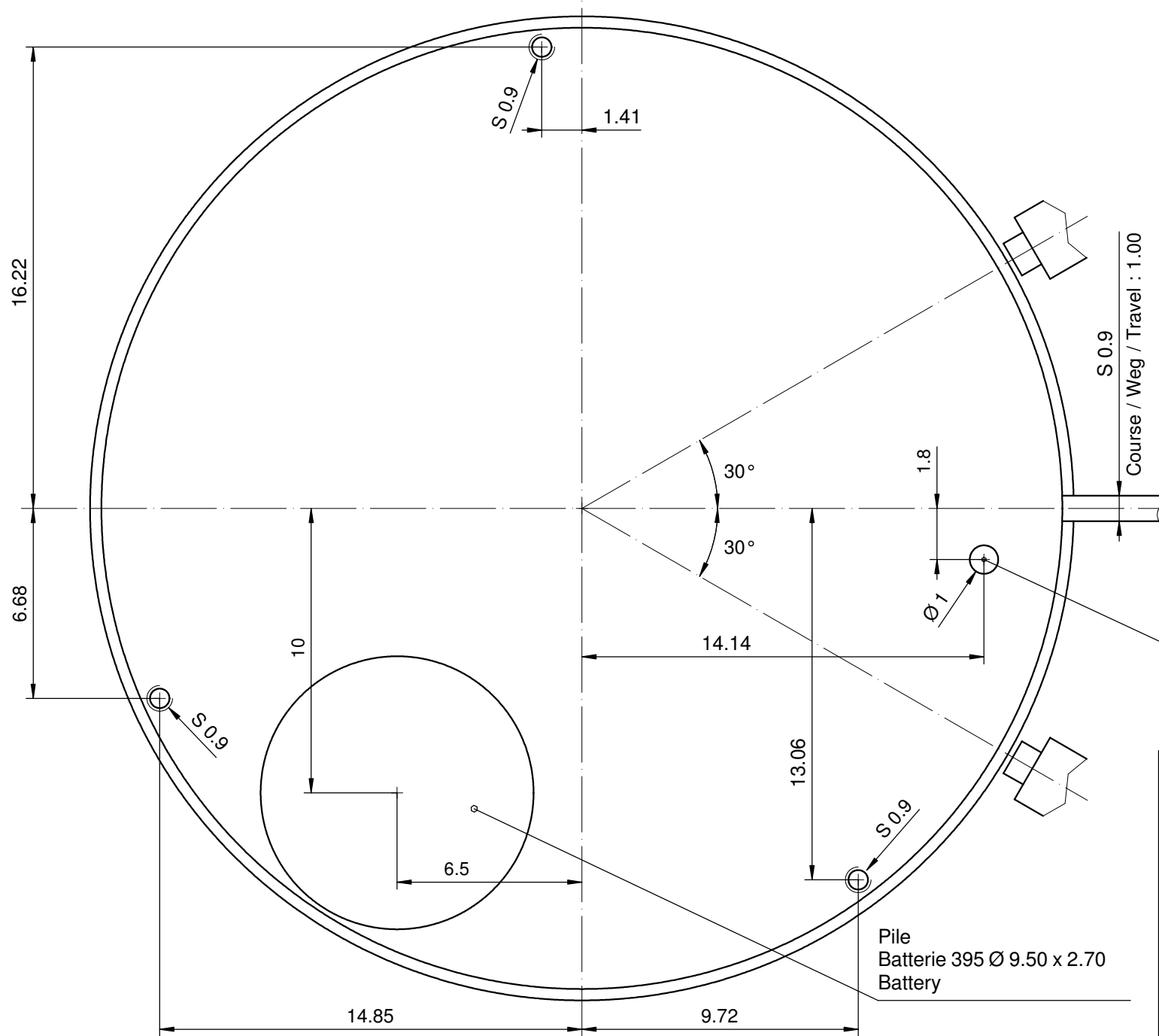
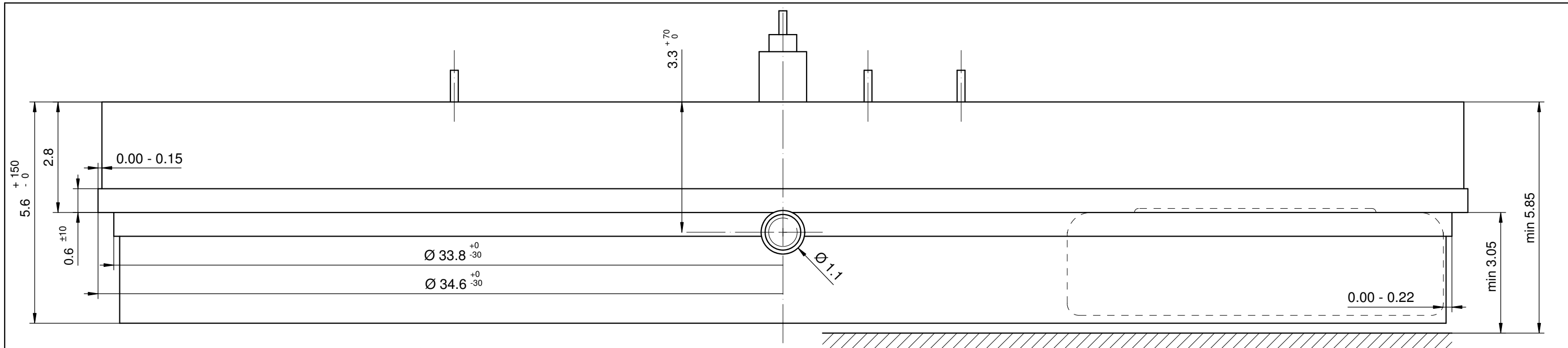
Functions

- Retrograde
- Day indicator
- 3 eyes
- Chronograph
- Center stop second (1/1 sec)
- 1/10 seconds up to 30 minutes
- 30 minute counter
- 10 hour counter
- ADD and SPLIT functions
- Day Retrograde
- Big date
- Small second

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
Force to push the stem for screwed crown	10 / 15 N
Stem thread	0.90 mm
Standard battery	395
Standard battery life	48 months
Battery voltage	1.5 V
Current consumption – typical	1.48 μ A (Date Mechanism not in Gear)
Current consumption – maximum	2 μ A (Date Mechanism not in Gear)
Useful torque second – typical	6 μ Nm
Useful torque minute – typical	300 μ Nm
Useful torque center stop second – typical	7 μ Nm
Operating temperature	0 - 50 °C
Instantaneous rate	-10/ +20 sec/month
Resistance to magnetic fields	18.8 Oe
Resistance against shock	NIHS 91-10

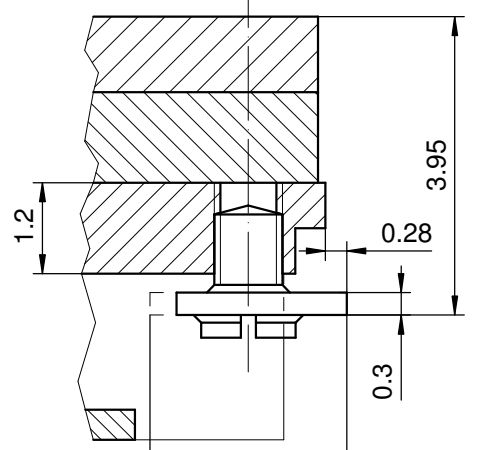
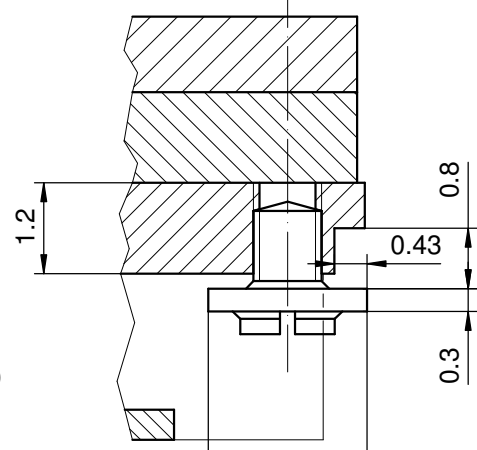
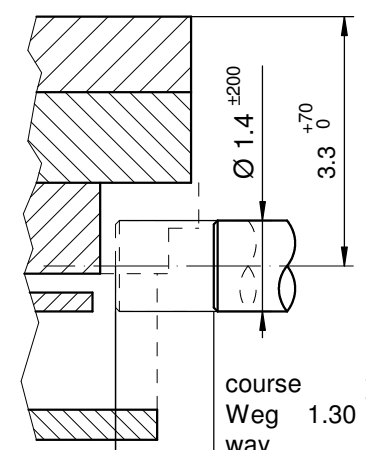




Poussoirs / Drücker / Pushers

Vis / Schraube / Screw No. : 4000.323

Vis / Schraube / Screw No. : 4000.324



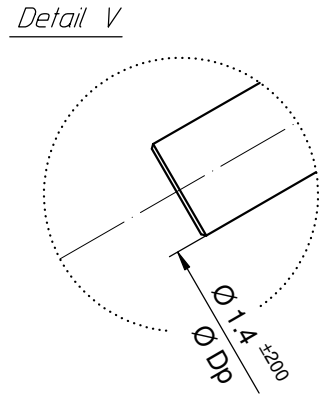
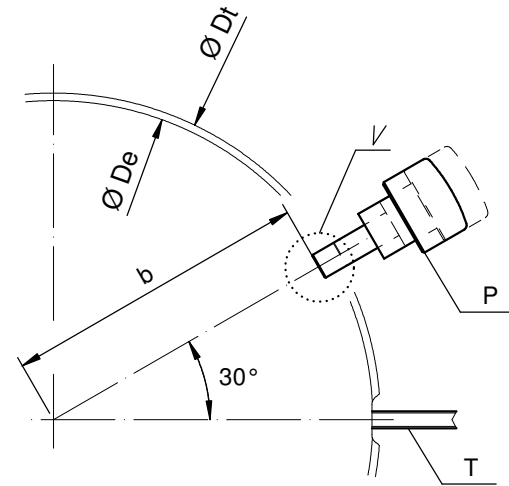
Position poussée
Gedrückte Stellung R 16.20 ±50
Pushed in

Position pour extraire la tige
Position zum entfernen der Stellwelle
Position to remove the stem

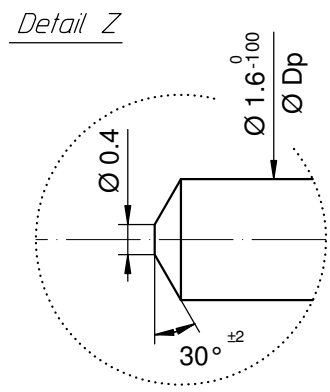
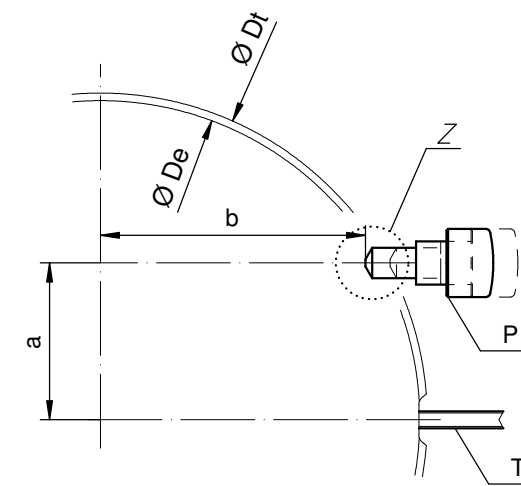
Sécurité entre l'aiguille des seconde et le verre : min 0.50 mm
Sicherheit zwischen Sekundenzeiger und Glas : min 0.50 mm
Security between second hand and glass : min 0.50 mm

Cage Uhrwerkgestell Frame	15"	Issued	16 Mai 2008	mg
		Modified	12 Feb 2010 ÄÄ 5198	fl
		Released	Yes	
		Tolerance	+/- 20 µm	
Scale		10 : 1 (5 : 1) (A3H)		
Sous réserve de modifications Änderungsvorbehalten Modifications reserved				
RONDA	8040.N	No.	5000.367	00

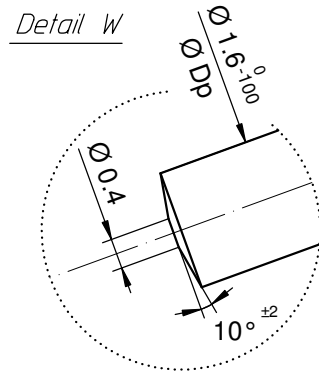
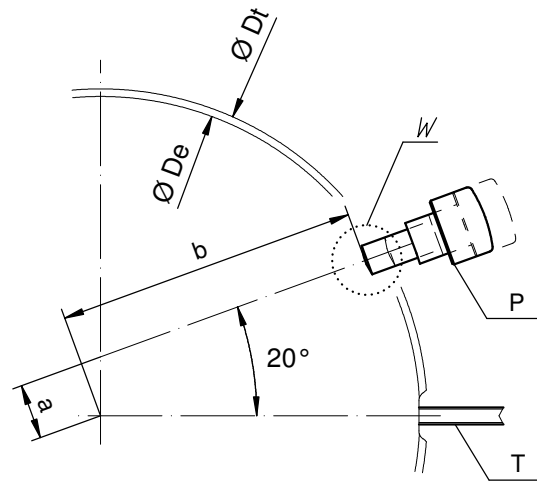
Angle Winkel Angle	30°	
Ø Dp	b	
1.20	16.20	
1.30	16.20	
1.40	16.20	
1.50	16.20	
1.60	16.20	



Angle Winkel Angle	0°	
Ø Dp	a	b
1.50	8.24	14.06
1.60	8.29	14.03

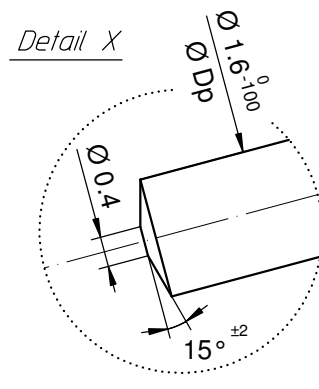
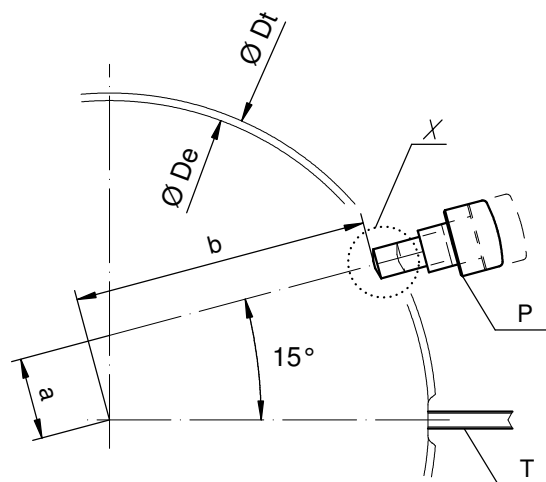


Angle Winkel Angle	20°	
Ø Dp	a	b
1.50	2.87	15.98
1.60	2.92	15.97

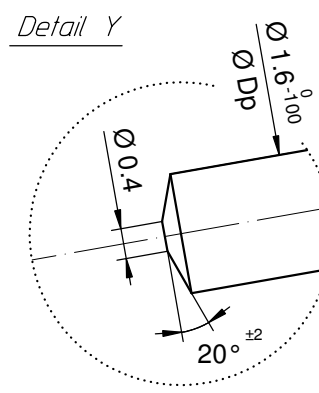
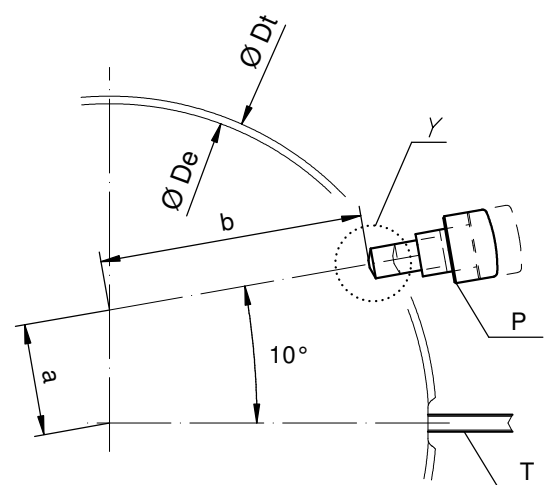


- Ø De: diamètre d'encageage
Durchmesser der Gehäusepassung
fitting-diameter
- Ø Dp: diamètre du poussoir
Drückerdurchmesser
pusher-diameter
- Ø Dt: diamètre total
Totaldurchmesser
total-diameter
- P: poussoir en position poussée
Drücker in gedrückter Stellung
pusher in pressed position
- T: tige de mise à l'heure
Stellwelle
stem

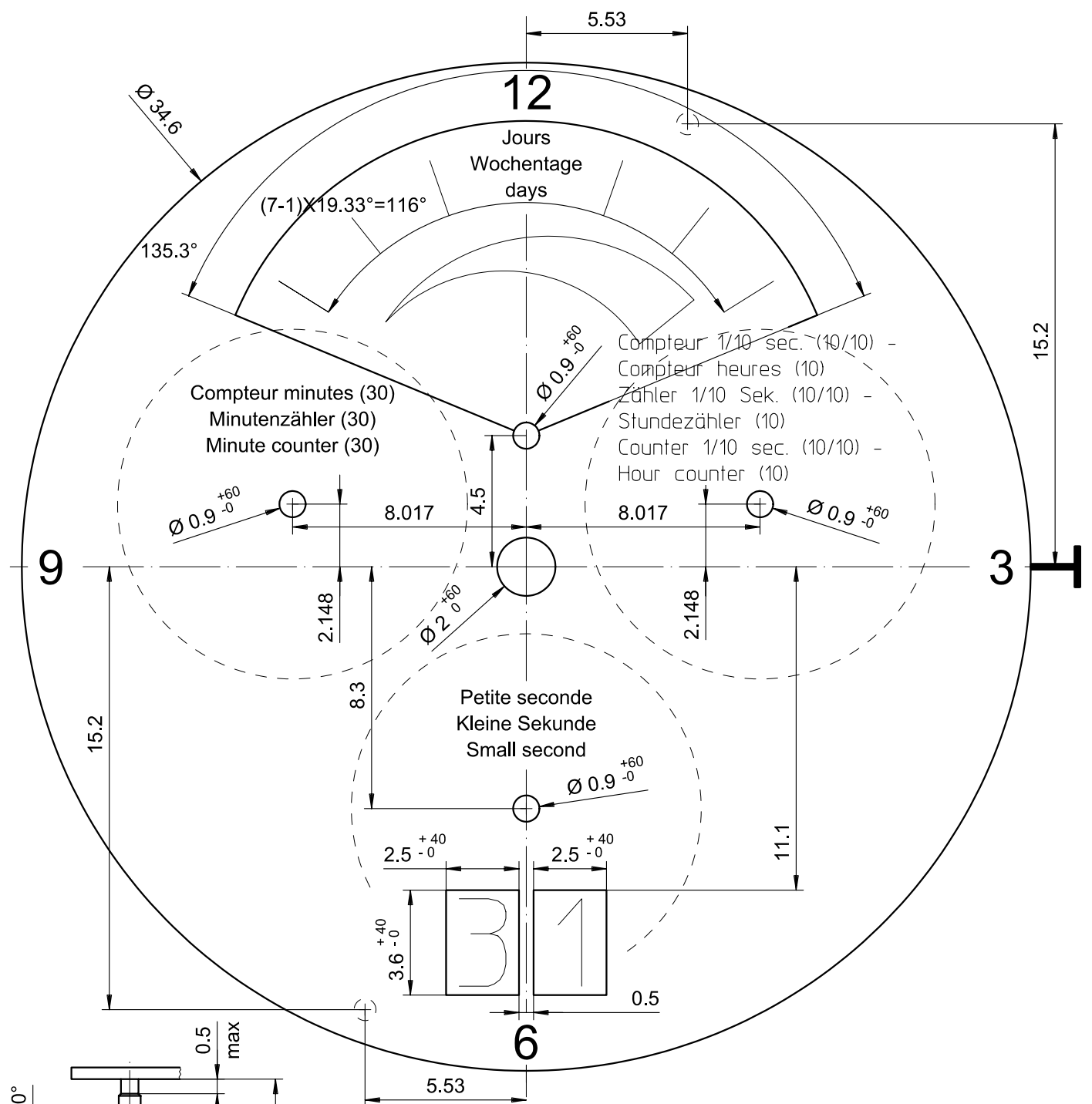
Angle Winkel Angle	15°	
Ø Dp	a	b
1.50	4.27	15.68
1.60	4.32	15.67



Angle Winkel Angle	10°	
Ø Dp	a	b
1.50	5.63	15.26
1.60	5.68	15.24



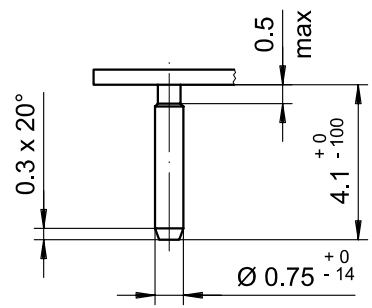
Angle des poussoirs A et B Winkel der Drücker A und B Angle of pusher A and B	Issued	22 Sep 2009	fl
	Modified	12 Feb 2010 ÄÄ 5198	fl
RONDA	Released	YES	
	Tolerance	+/- 20 µm	
	Scale	2.5 : 1 (10 : 1) (A3H)	
8xxx.x	Sous réserve de modifications Änderungsvorbehalten Modificationsreserved		
	No.	5000.390	00



Compteur 1/10 sec. (10/10) -
 Compteur heures (10)
 Zähler 1/10 Sek. (10/10) -
 Stundenzähler (10)
 Counter 1/10 sec. (10/10) -
 Hour counter (10)

Compteur minutes (30)
 Minutenzähler (30)
 Minute counter (30)

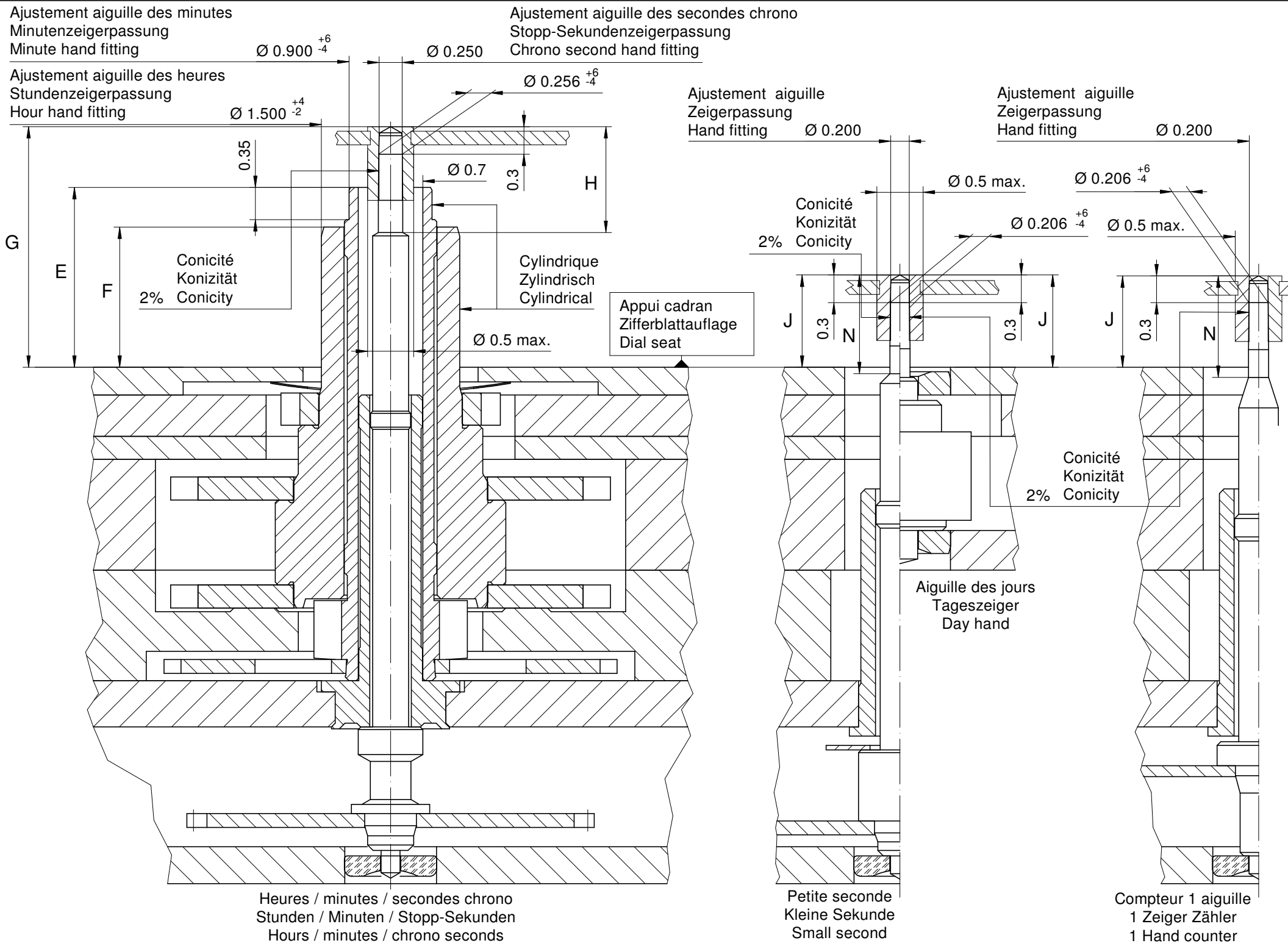
Petite seconde
 Kleine Sekunde
 Small second



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

Tige	Date	Jour
Stellw.	Datum	Tag
Stem	Date	Day
3H	6H	12H
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Cadran Zifferblatt Dial	15'''	Issued	16 Mai 2008	mg
		Modified	12 Feb 2010 ÄA 5198	fl
		Released	YES	
		Tolerance	+/- 20 µm	
		Scale	5 : 1 (A4V)	
RONDA	8040.N	Sous réserve de modifications Aenderungen vorbehalten Modifications reserved		
		No.	5010.804	00



Aiguillages Zeigerwerkhöhe Hand fitting height								
Dépassement Höhe über Zifferblattauflage Height over dial seat								
No	Pignon des secondes chrono Stopp-Sekundentrieb Chrono second pinion	Chaussée Minutenrohr Cannon-pinion	Roue des heures Stundenrad Hour wheel			Petite seconde Kleine Sekunde Small second	Pignon compteur Zählertrieb Counter pinion	1 aig. 1 Zeiger 1 Hand Pignon des jours rétrograde Tagesanzeigetrieb retrograd Day pinion retrograde
1	G	E	F	H	N	J	J	J
	2.61	1.95	1.52	1.15	1.05	1.00	1.00	1.00

Aiguillages Zeigerwerkhöhe Hand fitting height							
Peinture comprise / inkl. Farbe / Paint included							
Epaisseur maximum du cadran Maximale Zifferblattstärke Maximum dial 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	Sous l'aiguille de petite seconde Unter kleine Sekundenzeiger Under small second hand	Sous l'aiguille compteur 1 aiguille Unter Zeiger 1 Zeiger Zähler Under hand 1 hand counter	Sous l'aiguille des jours rétrograde Unter Tageszeiger retrograd Under Day hand retrograde	Epaisseur des aiguilles Zeigerdicke Hands thickness
1	2.10	1.55	1.10	0.55	0.55	0.55	0.15

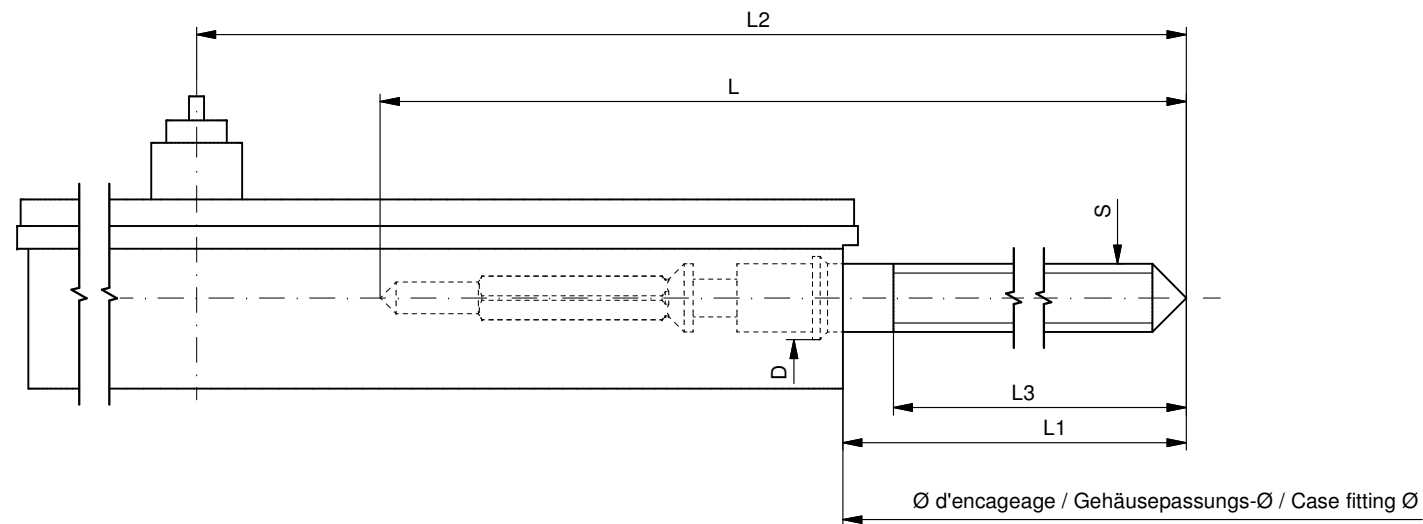
	Aig. des sec. chrono Stopp-Sekundenzeiger Chrono second hand	Aig. des minutes Minutenzeiger Minute hand	Aig. des heures Stundenzeiger Hour hand	Aig. petite secondes Kleine Sekundenzeiger Small second hand	Aiguille compteur minute Zähler Zeiger Minute Counter hand minute	Aiguille compteur 1/10 sec. Zähler Zeiger 1/10 Sek. Counter hand 1/10 sec.	Aig. des jours rétrograde Tagesanzeiger retrograd Day hand retrograde	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	10	10	10	10	Masse / Masse / weight
µNm max.	0.06	0.80	0.80	0.07	0.03	0.02	0.40	Balourd / Unwucht / unbalance
gmm ² max.	1.0	---	---	0.4	1.0	1.0	1.0	Inertie / Massenträgheit / Inertia
N max.	30	40	40	30	30	30	30	Force de chassage / Aufpresskraft / Force

**Aiguillages
Zeigerwerkhöhen 15 '''
Hand fitting heights**

RONDA 8040.N

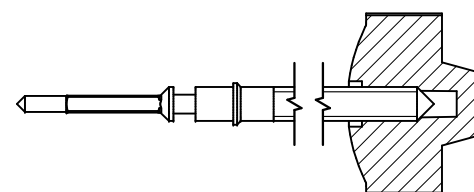
Issued	02 Jun 2008	mg
Modified	15 Okt 2014 ÄÄ 13275	dh
Released	Yes	
Tolerance	µm	
Scale	20 : 1 (A3H)	
Sous réserve de modifications Änderungen vorbehalten Modifications reserved		
No.	3316.122	02

* En cas de données différentes, veuillez contacter le service après-vente * Bei abweichenden Werten, bitte technischen Kundendienst anfragen * In case of different values, please contact the customer service



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

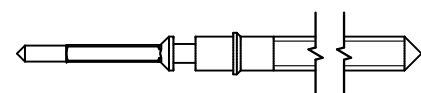
No. d'article Artikelnummer Part number	L	L1	L2	L3	S	D
3000.203.CO	21.30	11.67	28.57	11.12	0.90	1.10



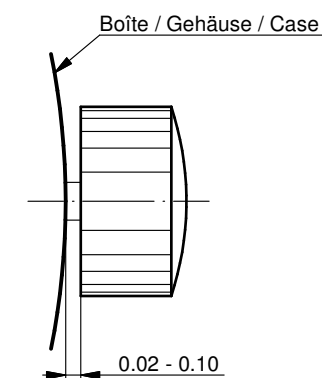
Couleur de la couronne Kronenfarbe Crown color	gris foncé dunkelgrau dark grey
Code	UN 7005

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

No. d'article Artikelnummer Part number	L	L1	L2	L3	S	D
3000.203	21.30	11.67	28.57	11.12	0.90	1.10



Couronne normale
 Normale Krone
 Normal crown

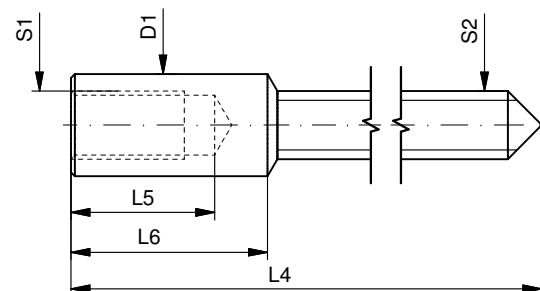


Couronne vissée
 Geschraubte Krone
 Screwed crown

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 8040.B, 8040.N

Issued	07 Sep 2012	ds5222
Modified	25 Apr 2017 ÄA 34582	mg5224
Released	YES	
Tolerance	---	
Scale	10:1 (A3)	

Sous réserve de modifications
 Änderungen vorbehalten
 Modifications reserved

No.	5030.023	01
-----	----------	----



Movement holder
Removing setting stem
H8XXX.1T



Movement holder
Setting hands
H8XXX.1A

Fitting dial and hands

- Crown in position III
- Wind hour hand forwards, until Sunday is displayed in the retrograde window
- 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
- Advance time setting to install actual weekday
- Set time
- Zero chronograph hand*
- Crown in position II
- Set date
- Crown in position I

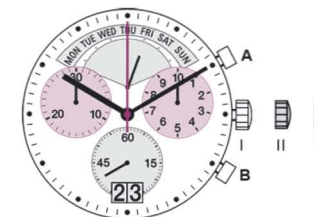
Date switching duration

First and tenth digit discs
Weekday

*Zeroing the Chronograph hand

- Press pushers A and B for 2 seconds at the same time
(Chrono seconds hand rotates once)
- Pusher A → to correct chrono seconds hand
- Pusher B → to jump to hour hand
- Pusher A → to correct hand position
- Pusher B → to jump to minute hand
- Pusher A → to correct minute hand

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

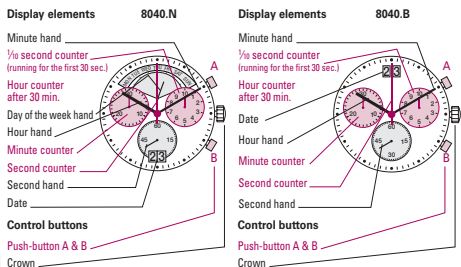
During quick date correction (setting stem in position II), a date switching speed of 5 d/s must not be exceeded.

~2hrs
~1½hrs

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



Chronograph: Basic function

(Start / Stop / Reset)

Example:

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

05

Chronograph: Accumulated timing

Example:

- Start:** (start timing)
- Stop:** (e.g. 15 min 5 sec following 1)
- Restart:** (timing is resumed)
- Stop:** (e.g. 5 min 12 sec following 3)
= 20 min 17 sec
(The accumulated measured time is shown)

- 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, ...).

06

Chronograph: Intermediate or interval timing

Example:

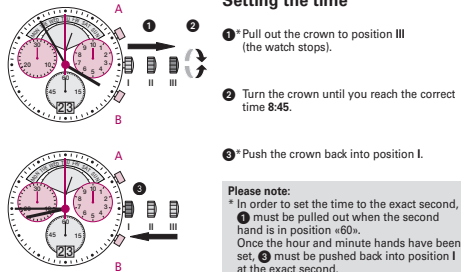
- Start:** (start timing)
- Display interval:** e.g. 20 minutes 17 seconds (timing continues in the background)
- Making up the measured time:** (the chronograph hands are quickly advanced to the ongoing measured time.)
- Stop:** (Final time is displayed)
- Reset:** The chronograph hands are returned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

Please note:

* Following 4, further intervals or intermediates can be displayed by pressing push-button B (display interval / make up measured time, ...).

07

Setting the time



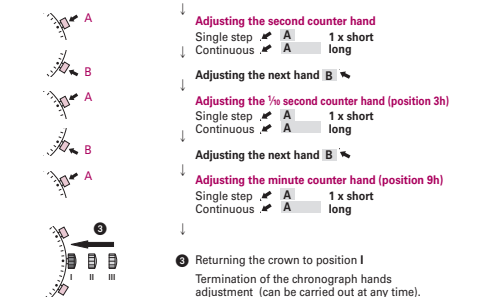
02

Adjusting the chronograph hands to zero position

Example:

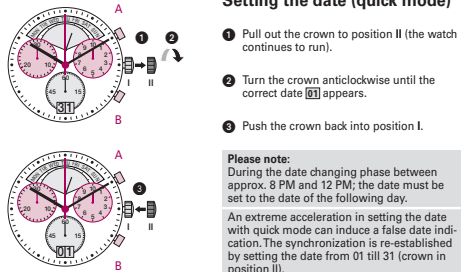
One or several chronograph hands are not in their correct zero positions and have to be adjusted (e.g. following a battery change).

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



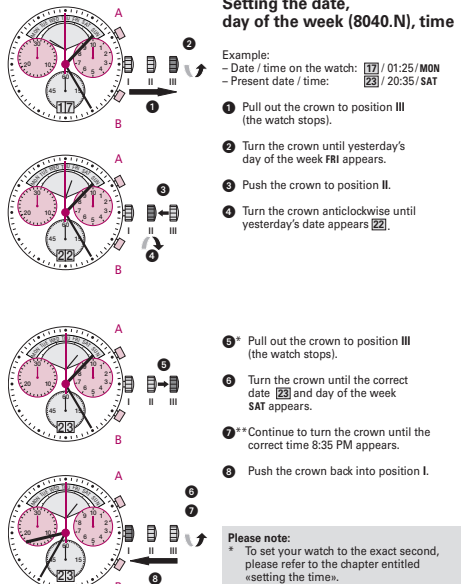
08

Setting the date (quick mode)



03

Setting the date, day of the week (8040.N), time



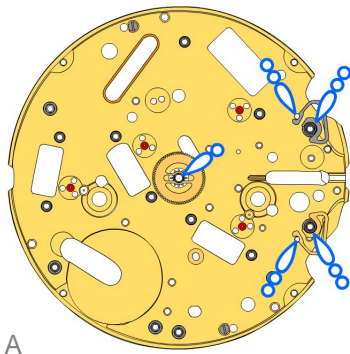
04







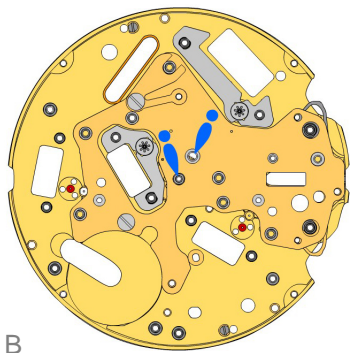
Battery type: 395 / SR927SW
 Accuracy: +20 / -10 seconds per month









07/2017

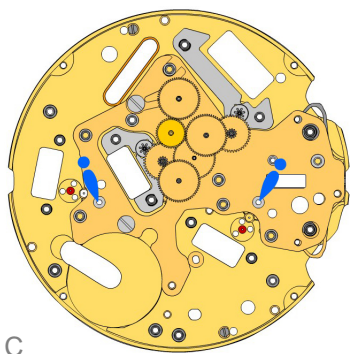











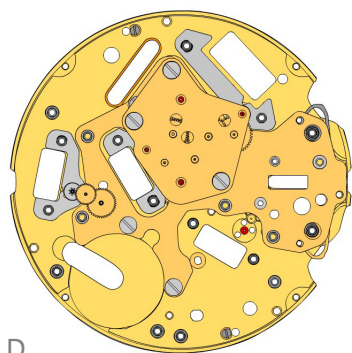
2000.700.CO 1.		Main plate
3406.038 2.		Pusher jumper A Put the yellow jumper between the two posts on the closer side.-#13;
3406.030 3.		Pusher jumper B Put the grey jumper between the two posts on the further side.
3305.364.CO 4.		Canon pinion (Aig.1)









2030.029 5.		Center bridge Center bride held by 2 screws 4000.250.
4000.250 6.		Screw
3406.040 7.		Friction spring Friction spring held by 1 screw 4000.250.
4000.250 8.		Screw
3622.055 9.		Stator
3622.054 10.		Stator chrono Mark 1 on stator.
3715.119.RK 11.		Rotor
3715.119.RK 12.		Rotor

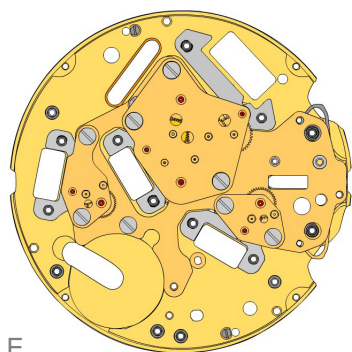


3147.073.CO 13.		Intermediate wheel
3147.074.CO 14.		Intermediate wheel chrono
3122.067.CO 15.		Third wheel
3136.180.CO 16.		Chronograph wheel
3136.179.CO 17.		Second wheel
3136.178.CO 18.		Small second wheel
3004.203.CO 19.		Reverse wheel









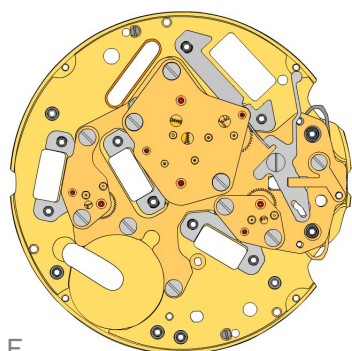
D

2020.188.G 20.		Train wheel bridge Train wheel bridge held by 2 screws 4000.250. Mark [2].
4000.250 21.		Screw
3622.039 22.		Stator counter (cpt 6h and 9h and chrono)
3402.012.CO 23.		Minute counting wheel
3715.120.RK 24.		Rotor
3147.076.CO 25.		Intermediate wheel (counter 30min)









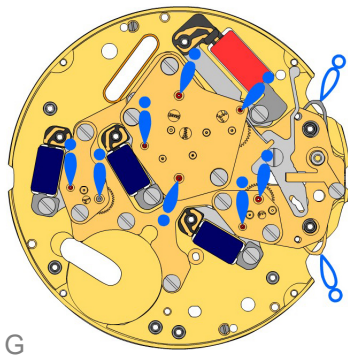
E


2020.191.G 26.		Counter train wheel Bridge Train wheel bridge held by 2 screws 40000.250. Mark [2].
4000.250 27.		Screw
3622.039 28.		Stator counter
3402.013.CO 29.		Counting wheel (1/10 s)
3715.120.RK 30.		Rotor
3147.075.CO 31.		Intermediate wheel (counter 1/10 s)





F


2020.190.G 32.		Counter train wheel bridge Train wheel bridge held by 2 screws 40000.250. Mark [2].
4000.250 33.		Screw
3016.029 34.		Stop lever Stop lever held by 1 screw 4000.249.
4000.249 35.		Screw
2130.222 36.		Maintaining plate Maintaining plate held by 1 screw 4000.248.
4000.248 37.		Screw



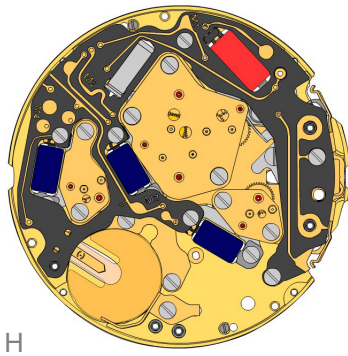
3621.072.RK
38.  **Coil centre**
Attention: Please hold the coil only on the grey coil core.

3621.055.RK
39.  **Coil counter**
Attention: Please hold the coil only on the grey coil core.


3621.055.RK
40.  **Coil counter**
Attention: Please hold the coil only on the grey coil core.


3621.055.RK
41.  **Coil counter**
Attention: Please hold the coil only on the grey coil core.


4000.250
42.  **Screw**





3603.089
43.  **Battery insulator**

3601.134
44.  **Pusher contact spring**

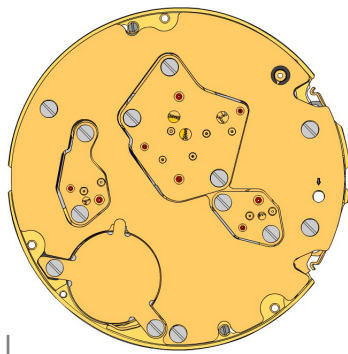
3612.218
45.  **Electronic module**
Electronic module held by 6 screws. (Electronic measurements may be realised now.)

4000.248
46.  **Screw**
4 screws 4000.248 for pressing the module on the coils.


4000.250
47.  **Screw**
2 screws 4000.248 for pressing the module on the 2 posts.

3601.132.G
48.  **Lateral bridle**
Lateral bridle held by 1 screw 4000.250.

4000.250
49.  **Screw**



3603.090
50.  **Circuit insulator**

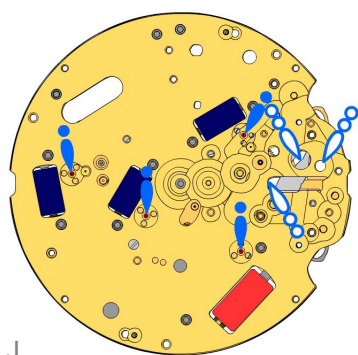
2130.206.G.M01.8040N
51.  **Electronic module cover**
Electronic module cover held by 4 screws 4000.250.

4000.250
52.  **Screw**

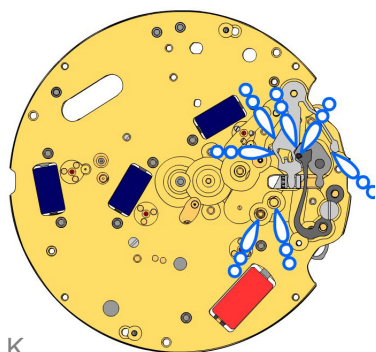
3600.010.HGF
53.  **Battery 395**

3601.133.G
54.  **Bridle +**
Bridle + held by 2 screws 4000.250.

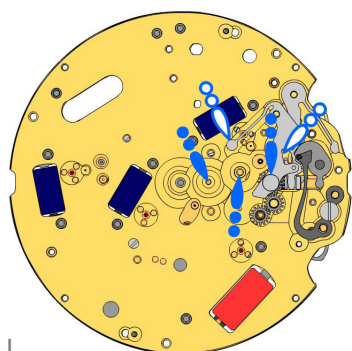
4000.250
55.  **Screw**



J



K



L

 2000.700.CO
56. Main plate

 3017.054.CO
57. Setting lever

 3001.046
58. Sliding pinion

 3015.088
59. Yoke (3 positions)

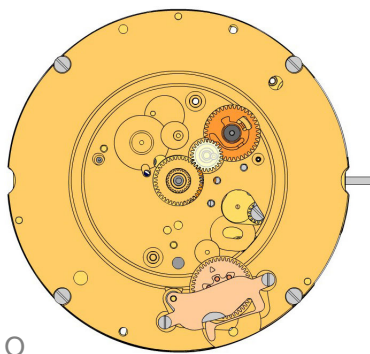
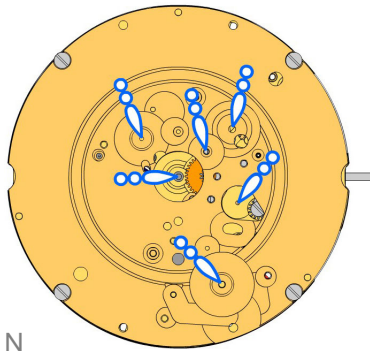
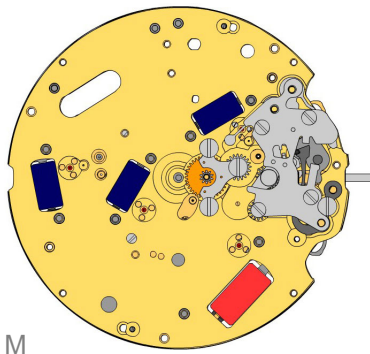
 3905.063
60. Setting lever jumper
Lever held by 1 screw 4000.282.



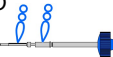













 4000.282
61. Screw

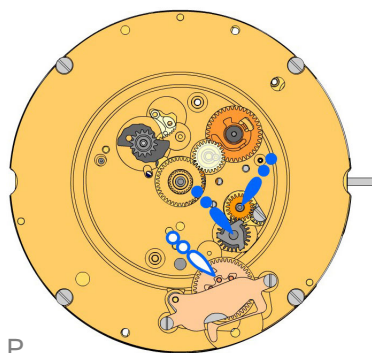
 3004.200
62. Corrector setting wheel

 3004.200
63. Corrector setting wheel

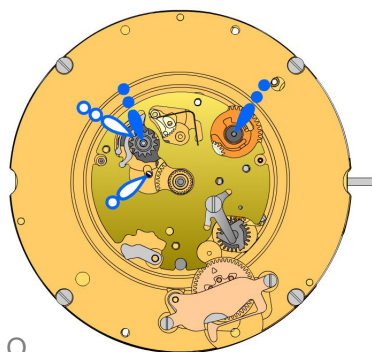
 3015.087.CO
64. Setting wheel yoke






2130.208 65.		Setting mechanism cover Setting meca cover held by 4 screws 4000.305.
4000.305 66.		Screw
3000.203.CO 67.		Setting stem
3004.222 68.		Intermediate setting wheel
3007.079.CO 69.		Minute wheel
2130.209 70.		Minute train bridge Minute train bridge held by 3 screws 4000.278.
4000.278 71.		Screw
2000.672.G 72.		Main plate retro Minute plate retro held by 4 screws 4000.248.
4000.248 73.		Screw
3004.220 74.		Tens indicator driving wheel The short tooth of the tens indicator driving wheel must point to the center of the movement.
3500.072 75.		Tens jumper
2130.187 76.		Tens jumper maintaining plate Tens jumper maintaining plate held by 2 screws 4000.279. Tensioning the spring arm.
4000.279 77.		Screw
3301.292.CO 78.		Hour wheel
3004.208.CO 79.		Date indicator driving wheel
3147.061 80.		Intermediate date wheel









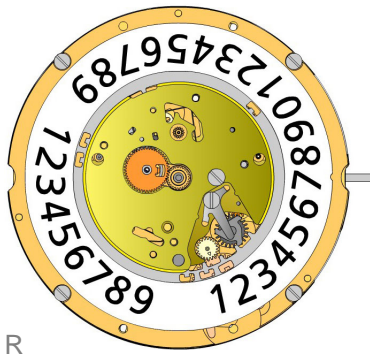
P




















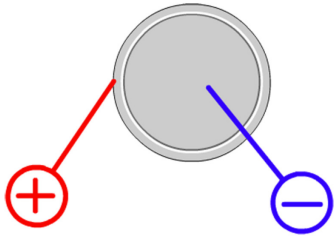
Q

3404.006.CO 81.		Day cam Place parts as shown on graphics.
3406.032 82.		Day rack
3406.031 83.		Day rack lever
3147.066.CO 84.		Date corrector setting wheel
3507.059.CO 85.		Date corrector wheel

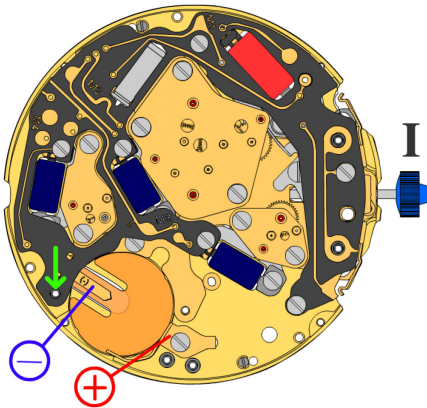
2130.191 86.		Date indicator plate
3905.068 87.		Date corrector spring Date corrector spring held by 1 screw 4000.244.
4000.244 88.		Screw
3905.066 89.		Day rack lever spring Tensioning the spring arm.
3500.068 90.		Date jumper
3500.069 91.		Day jumper Tensioning the spring arm.



3504.234.AD.1.A 92.		Units indicator (standard) Nick of the indicator at 3 o'clock.
2130.192 93.		Date indicator maintaining plate Date indicator maintaining plate held by 1 screw.
4000.250 94.		Screw
3905.064 95.		Date jumper spring Insert the date jumper spring in the previous opening.
3004.244 96.		Day finger Stem pos III: Turn crown forwards until the date jumps. Stem pos II: Move the date until the nick is at 3 o'clock. Position the end of the teeth against the day came pinion while turning softly in counterclockwise direction.
3004.212 97.		Days driving wheel Insert the tooth of the wheel in the flange gap, while turning softly in counterclockwise direction to ensure correct position of the day finger.
3401.086.FI 98.		Day indicator pinion
3147.062 99.		Tens intermediate wheel Arrow positioning radially outwards.
3504.231.AD.1.A 100.		Tens indicator (standard) Nick of the indicator at 3 o'clock.
3315.003 101.		Friction spring
2130.193.G 102.		Date mechanism maintaining plate Date mechanism maintaining plate held by 3 screws 4000.320.
4000.320 103.		Screw
3506.077.G 104.		Intermediate Dial support Polished version first.
3506.076.G 105.		Dial support
8200 106.		Moebius 8200
9014 107.		Moebius 9014
124 108.		Jismaa 124
9020 109.		Moebius 9020

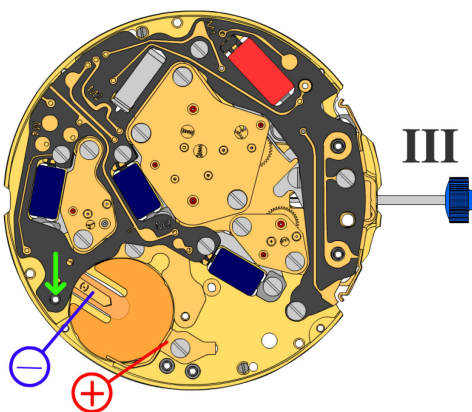


Battery	395
Voltage	1.55 V



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

Typical consumption	1.48 μA
Maximal consumption	2.00 μA
Rate	-10s/M. .. +20s/M.
Lower working voltage limit	1.20 V

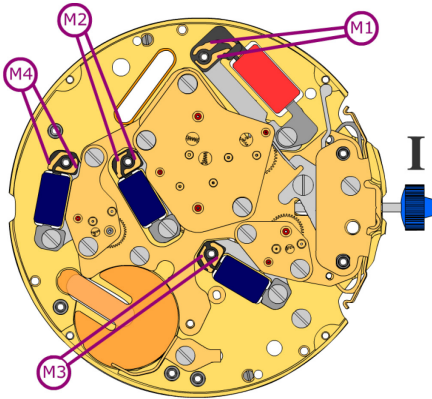


Setting stem in position III, 60 s measuring interval:

Typical consumption	0.10 μA
Maximal consumption	0.30 μA



Hold down the electrical module to allow the electronic flow.

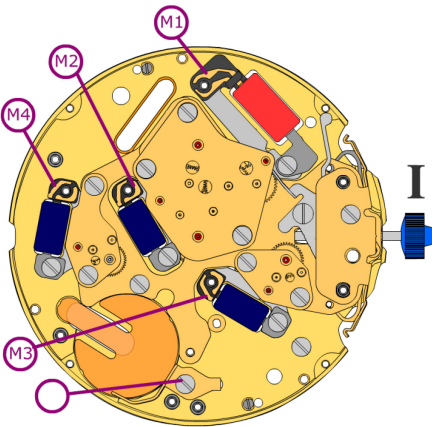


Coil resistance M1 **1.50 k Ω .. 1.70 k Ω**

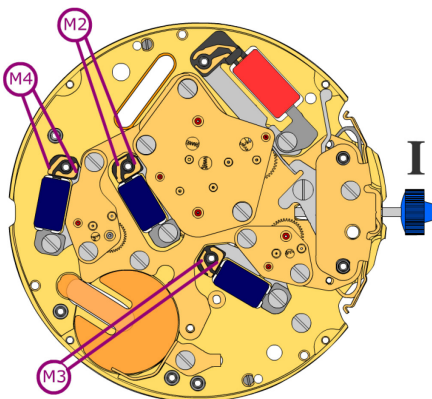
Coil resistance M2 **1.68 k Ω .. 1.88 k Ω**

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

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

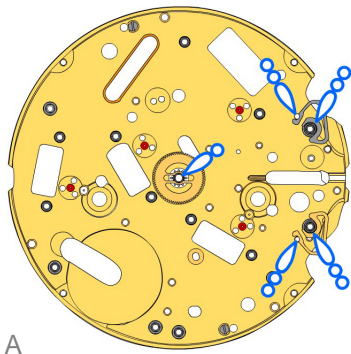


Coil isolation M1/M2/M3/M4 **∞ k Ω**

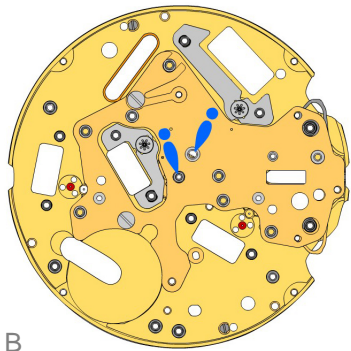


Signal generator (4.9 ms, 8 Hz):

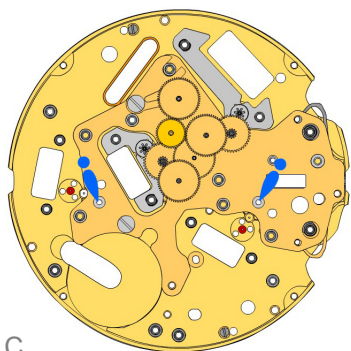
Lower working voltage limit
M2/M3/M4 **1.20 V**







A


















B

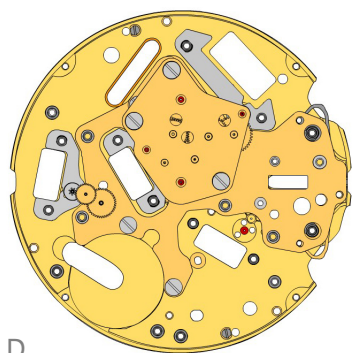


C


2000.700.CO 1.		Main plate
3406.038 2.		Pusher jumper A Put the yellow jumper between the two posts on the closer side.
3406.030 3.		Pusher jumper B Put the grey jumper between the two posts on the further side.
3305.364.CO 4.		Canon pinion (Aig.1)

2030.029 5.		Center bridge Center bride held by 2 screws 4000.250.
4000.250 6.		Screw
3406.040 7.		Friction spring Friction spring held by 1 screw 4000.250.
4000.250 8.		Screw
3622.055 9.		Stator
3622.054 10.		Stator chrono Mark 1 on stator.
3715.119.RK 11.		Rotor
3715.119.RK 12.		Rotor


3147.073.CO 13.		Intermediate wheel
3147.074.CO 14.		Intermediate wheel chrono
3122.067.CO 15.		Third wheel
3136.180.CO 16.		Chronograph wheel
3136.179.CO 17.		Second wheel
3136.178.CO 18.		Small second wheel
3004.203.CO 19.		Reverse wheel



D


2020.188.G
20.  **Train wheel bridge**
Train wheel bridge held by 2 screws 4000.250.

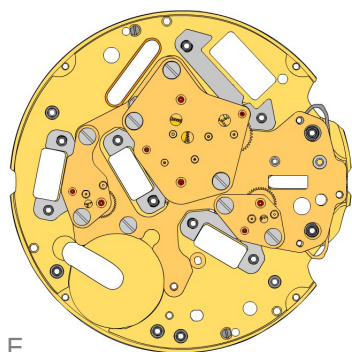
4000.250
21.  **Screw**

3622.039
22.  **Stator counter (cpt 6h and 9h and chrono)**


3402.012.CO
23.  **Minute counting wheel (30min)**

3715.120.RK
24.  **Rotor**

3147.076.CO
25.  **Intermediate wheel (counter 30min)**



E


2020.191.G
26.  **Counter train wheel Bridge (2h30)**
Train wheel bridge held by 2 screws 40000.250. Mark [2].


4000.250
27.  **Screw**

3622.039
28.  **Stator counter**

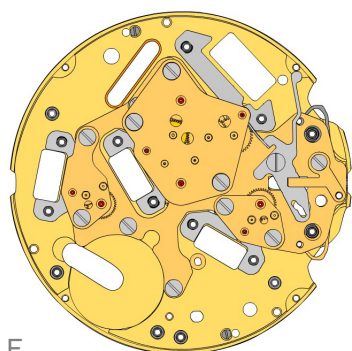
3402.013.CO
29.  **Counting wheel (1/10 s)**

3715.120.RK
30.  **Rotor**

3147.075.CO
31.  **Intermediate wheel (counter 1/10 s)**

2020.190.G
32.  **Counter train wheel bridge**
Train wheel bridge held by 2 screws 40000.250. Mark [1].

4000.250
33.  **Screw**



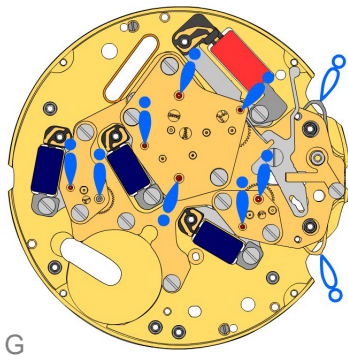
F


3016.029
34.  **Stop lever**
Stop lever held by 1 screw 4000.249.


4000.249
35.  **Screw**


2130.222
36.  **Maintaining plate**
Maintaining plate held by 1 screw 4000.248.


4000.248
37.  **Screw**



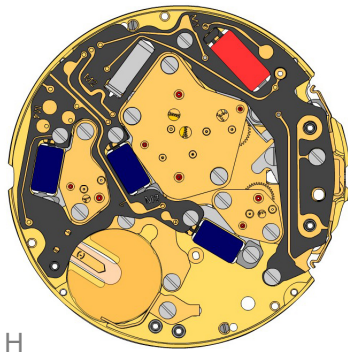
3621.072.RK
38.  **Coil centre**
Attention: Please hold the coil only on the grey coil core.

3621.055.RK
39.  **Coil counter**
Attention: Please hold the coil only on the grey coil core.


3621.055.RK
40.  **Coil counter**
Attention: Please hold the coil only on the grey coil core.


3621.055.RK
41.  **Coil counter**
Attention: Please hold the coil only on the grey coil core.

4000.250
42.  **Screw**





3603.089
43.  **Battery insulator**

3601.134
44.  **Pusher contact spring**

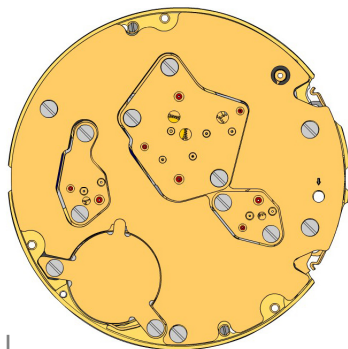
3612.218
45.  **Electronic module**
Electronic module held by 6 screws.

4000.248
46.  **Screw**
4 screws 4000.248 for pressing the module on the coils.

4000.250
47.  **Screw**
2 screws 4000.248 for pressing the module on the 2 posts.

3601.132.G
48.  **Lateral bridle**
Lateral bridle held by 1 screw 4000.250.

4000.250
49.  **Screw**



3603.090
50.  **Circuit insulator**

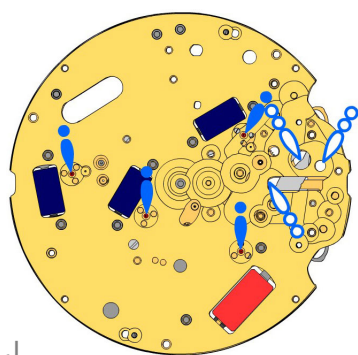
2130.206.G.M01.8040N
51.  **Electronic module cover**
Electronic module cover held by 4 screws 4000.250.

4000.250
52.  **Screw**

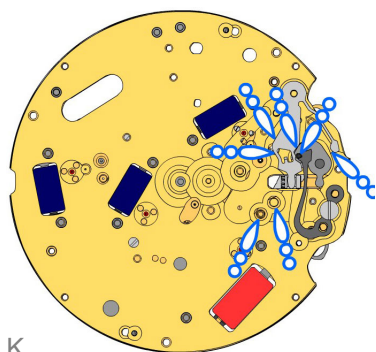
3600.010.HGF
53.  **Battery 395**

3601.133.G
54.  **Bridle +**
Bridle + held by 2 screws 4000.250.

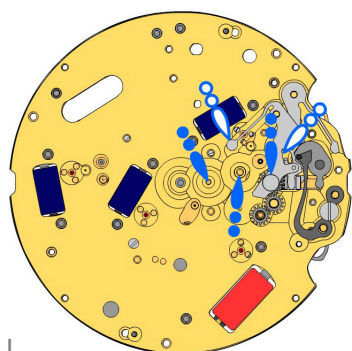
4000.250
55.  **Screw**



J



K



L

 2000.700.CO
56. Main plate

 3017.054.CO
57. Setting lever

 3001.046
58. Sliding pinion

 3015.088
59. Yoke (3 positions)

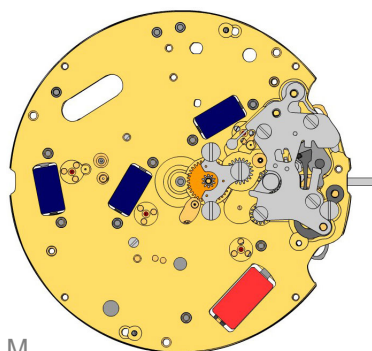
 3905.063
60. Setting lever jumper
Lever held by 1 screw 4000.282.

 4000.282
61. Screw

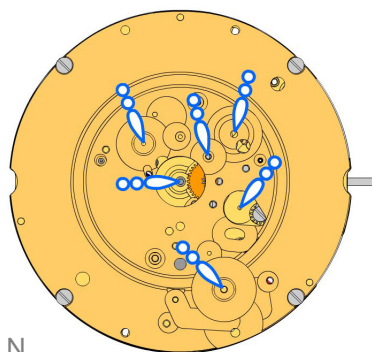
 3004.200
62. Corrector setting wheel

 3004.200
63. Corrector setting wheel

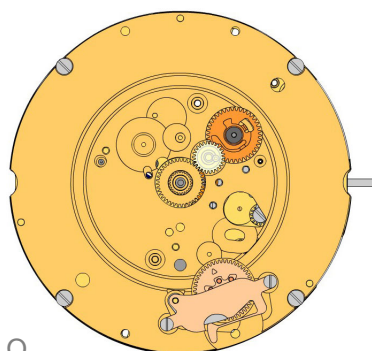
 3015.087.CO
64. Setting wheel yoke



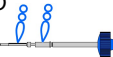













M

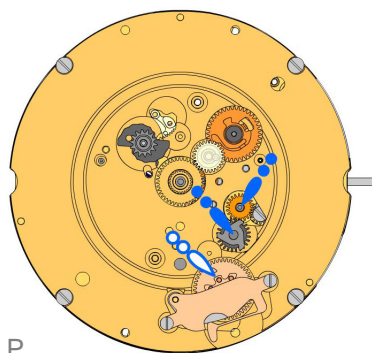


N

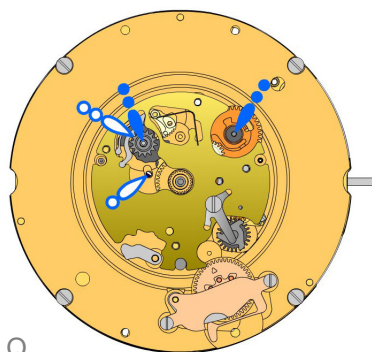


O






2130.208 65.		Setting mechanism cover Setting meca cover held by 4 screws 4000.305.
4000.305 66.		Screw
3000.203.CO 67.		Setting stem
3004.222 68.		Intermediate setting wheel
3007.079.CO 69.		Minute wheel
2130.209 70.		Minute train bridge Minute train bridge held by 3 screws 4000.278.
4000.278 71.		Screw
2000.672.G 72.		Main plate retro Minute plate retro held by 4 screws 4000.248.
4000.248 73.		Screw
3004.220 74.		Tens indicator driving wheel The short tooth of the tens indicator driving wheel must point to the center of the movement.
3500.072 75.		Tens jumper
2130.187 76.		Tens jumper maintaining plate Tens jumper maintaining plate held by 2 screws 4000.279. Tensioning the spring arm.
4000.279 77.		Screw
3301.292.CO 78.		Hour wheel
3004.208.CO 79.		Date indicator driving wheel
3147.061 80.		Intermediate date wheel









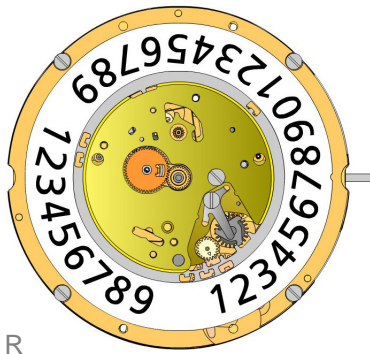
P



Q

3404.006.CO 81.		Day cam Place parts as shown on graphics.
3406.032 82.		Day rack
3406.031 83.		Day rack lever
3147.066.CO 84.		Date corrector setting wheel
3507.059.CO 85.		Date corrector wheel




















2130.191 86.		Date indicator plate
3905.068 87.		Date corrector spring Date corrector spring held by 1 screw 4000.244.
4000.244 88.		Screw
3905.066 89.		Day rack lever spring Tensioning the spring arm.
3500.068 90.		Date jumper
3500.069 91.		Day jumper Tensioning the spring arm.

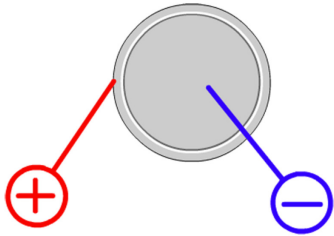


R

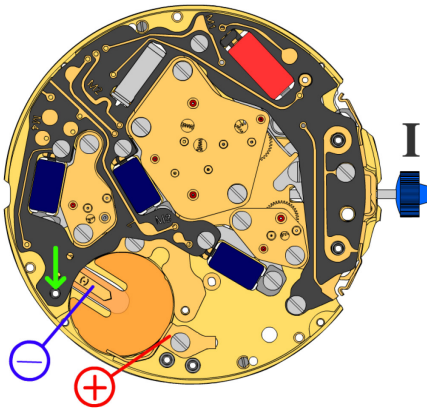


S

3504.234.AD.1.A 92.		Units indicator (standard) Nick of the indicator at 3 o'clock.
2130.192 93.		Date indicator maintaining plate Date indicator maintaining plate held by 1 screw 4000.250.
4000.250 94.		Screw
3905.064 95.		Date jumper spring Insert the date jumper spring in the previous opening.
3907.047 96.		Day finger flange Stem pos III: Turn crown forwards until the date jumps. Stem pos II: Move the date until the nick is at 3 o'clock.
3004.211 97.		Day finger Position the end of the teeth against the day came pinion while turning softly in counterclockwise direction.
3004.212 98.		Days driving wheel Insert the tooth of the wheel in the flange gap, while turning softly in counterclockwise direction to ensure correct position of the day finger.
3401.086.FI 99.		Day indicator pinion
3147.062 100.		Tens intermediate wheel Arrow positioning radially outwards.
3504.231.AD.1.A 101.		Tens indicator (standard) Nick of the indicator at 3 o'clock.
3315.003 102.		Friction spring
2130.193.G 103.		Date mechanism maintaining plate Date mechanism maintaining plate held by 3 screws 4000.320.
4000.320 104.		Screw
3506.077.G 105.		Intermediate Dial support Polished version first.
3506.076.G 106.		Dial support
8200 107.		Moebius 8200
9014 108.		Moebius 9014
124 109.		Jismaa 124
9020 110.		Moebius 9020

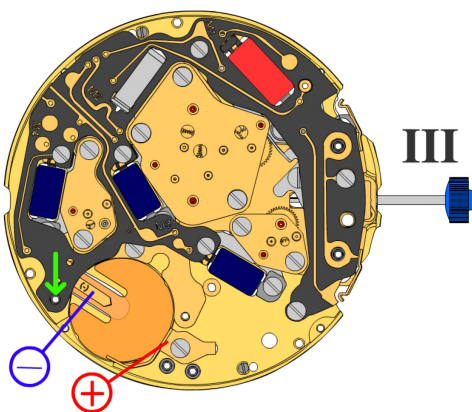


Battery	395
Voltage	1.55 V



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

Typical consumption	1.48 μA
Maximal consumption	2.00 μA
Rate	-10s/M. .. +20s/M.
Lower working voltage limit	1.20 V

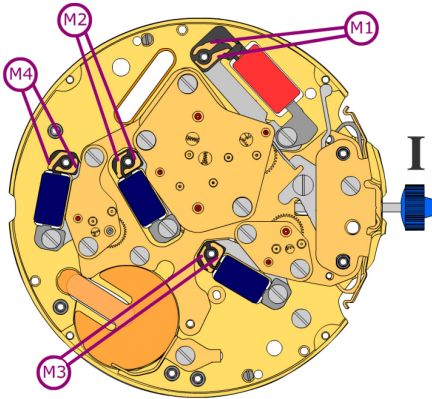


Setting stem in position III, 60 s measuring interval:

Typical consumption	0.10 μA
Maximal consumption	0.30 μA



Hold down the electrical module to allow the electronic flow.

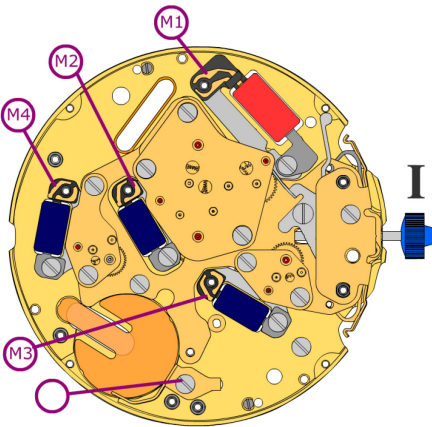


Coil resistance M1 **1.50 k Ω .. 1.70 k Ω**

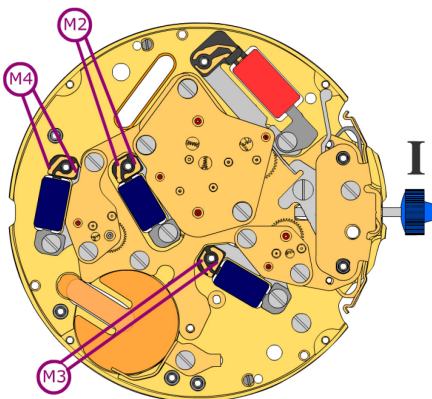
Coil resistance M2 **1.68 k Ω .. 1.88 k Ω**

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**