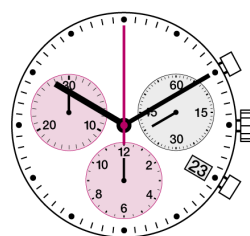
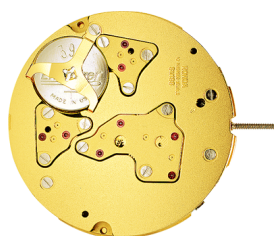


RONDA startech 5000

Chronographs, Big Date & Date,
different calendar systems, Alarm

Caliber 5030.D – 12½'''



Product Specifications

Analog quartz movement

Line

startech

Caliber

5030.D

Size

12½'''

Version Swiss Made
Swiss Parts

13 Jewels / gold plated
6 Jewels / nickel plated

Standard battery life

54 months

Hand fitting height

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

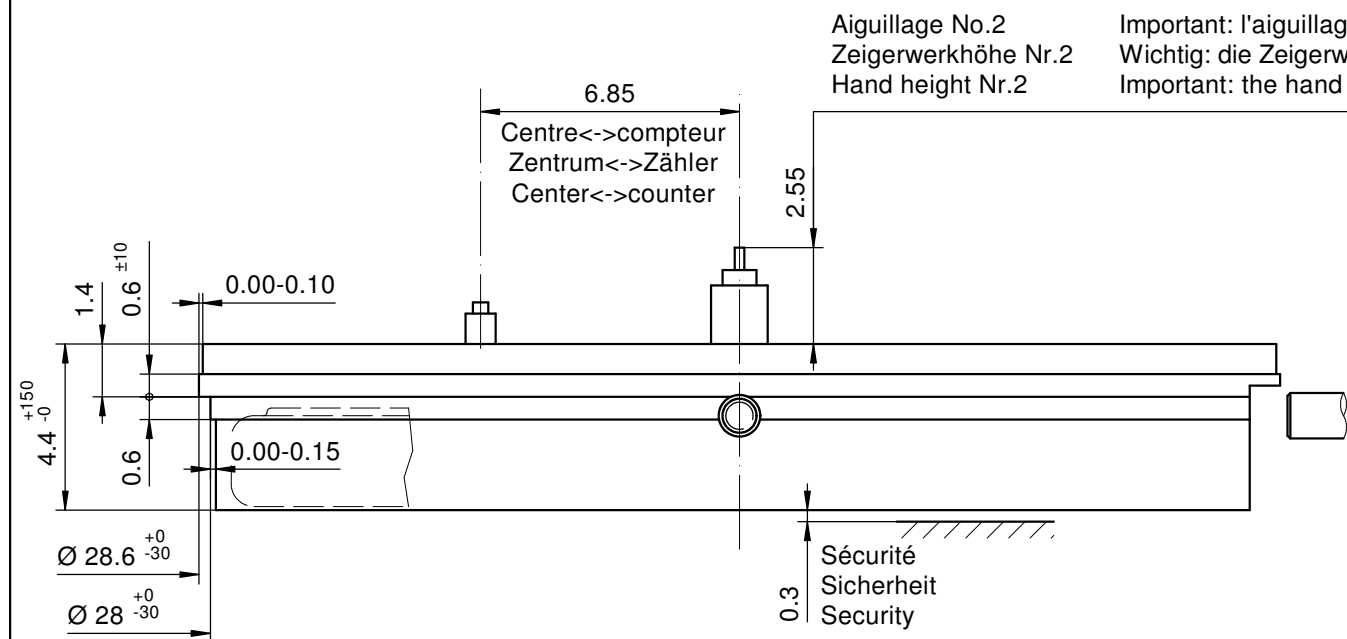
Functions

- 3 eyes
- Chronograph
- Center stop second (1/1 sec)
- 30 minute counter
- 12 hour counter
- ADD and SPLIT functions
- Date
- Small second

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
Force to push the stem for screwed crown	10 / 15 N
Stem thread	0.90 mm
Standard battery	395
Standard battery life	54 months
Battery voltage	1.5 V
Current consumption – typical	1.32 µA (Date Mechanism not in Gear)
Current consumption – maximum	1.65 µA (Date Mechanism not in Gear)
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





Important: l'aiguillage peut varier selon le modèle
Wichtig: die Zeigerwerkhöhe kann bei verschiedenen Modellen unterschiedlich sein
Important: the hand height can vary between different models

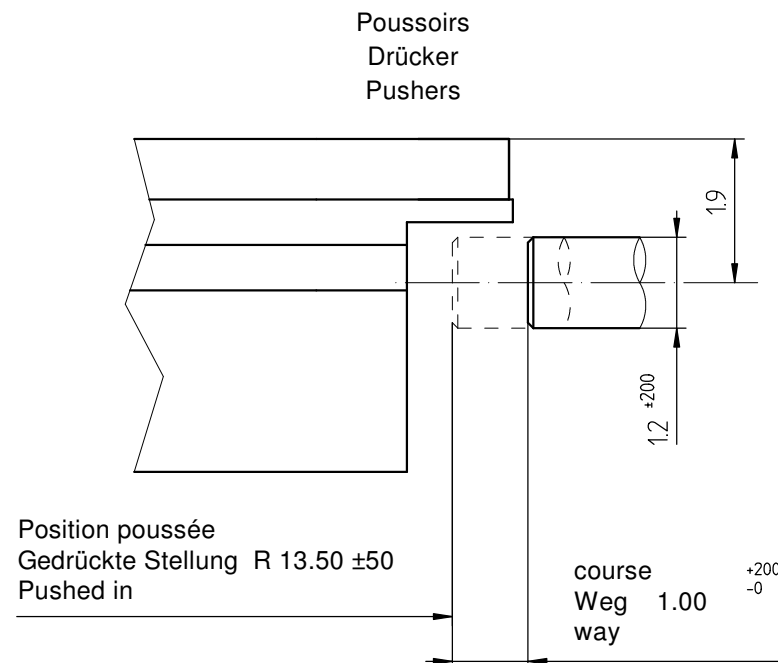
Sécurité entre l'aiguille des secondes et le verre:
Sicherheit zwischen Sekundenzeiger und Glas: 0.30mm
Security between second hand and glass:

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

La course du poussoir doit être limitée dans le poussoir lui-même. Sa position poussée doit être contrôlée.

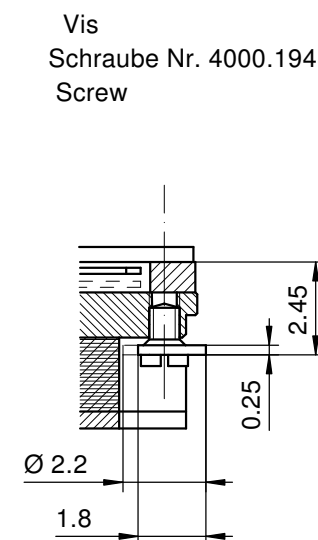
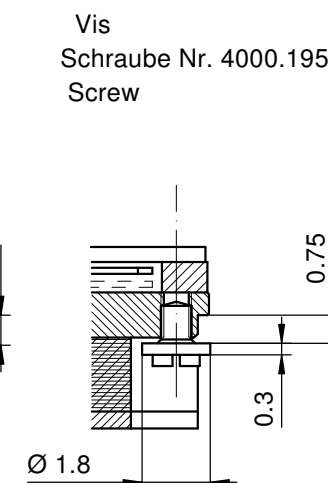
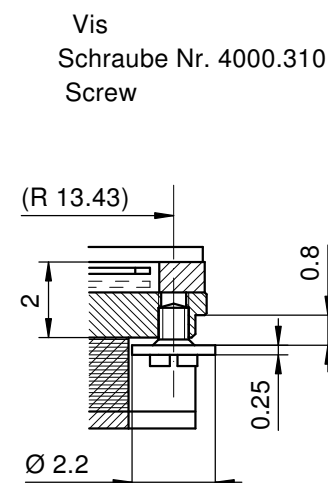
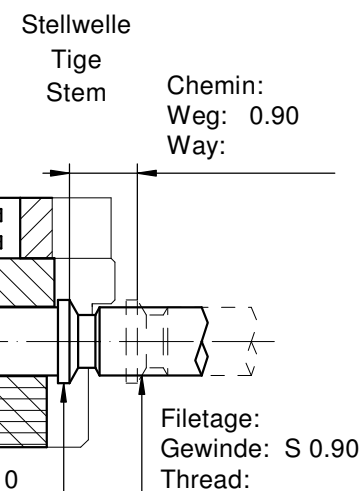
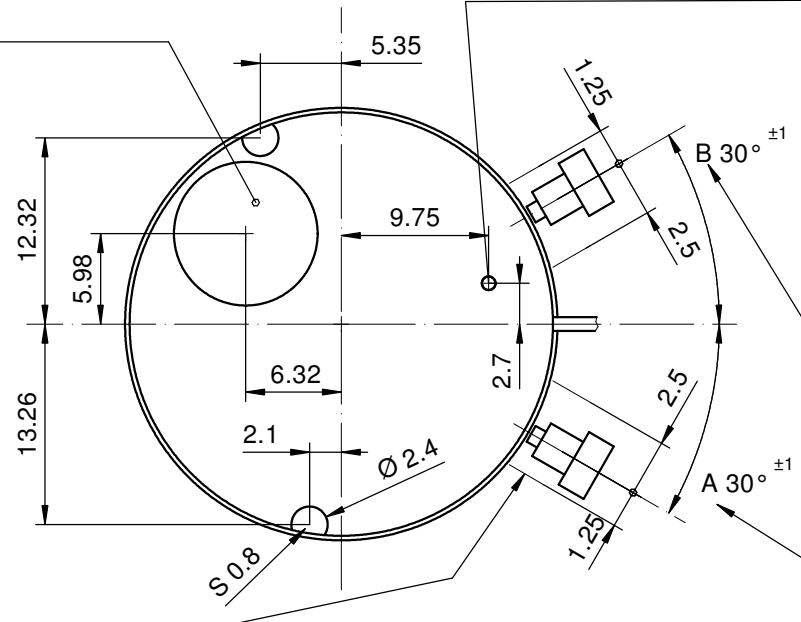
Die Weglänge des Drückers ist im Drücker selbst zu begrenzen. In der gedrückten Stellung ist seine Position zu kontrollieren

The way of the pusher has to be limited in the pusher itself. Its position must be checked while pushed in.

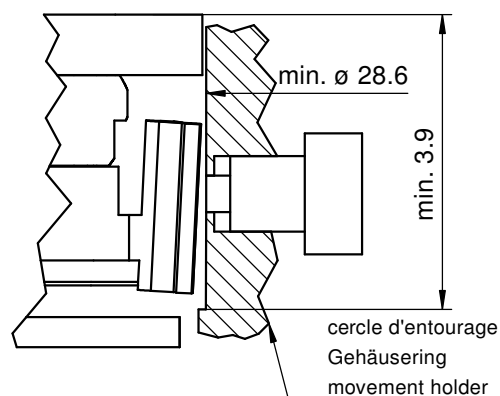


Côté fond de boîte
Seite Gehäuseboden
Case back side
Position pour extraire la tige
Position zum Entfernen der Stellwelle
Position to remove the stem

Pile
Batterie (395) Ø 9.50 x 2.60mm
Battery



Dégagement cercle d'entourage pour poussoir
Freistellung Gehäuse ring für Drücker
Opening movement holder for pusher



L'angle indiqué pour la direction du poussoir et la position doivent être respectés.
Pour un angle de 0° des poussoirs A et B, voir plan 5000.345

Der angegebene Winkel für die Drückerrichtung und die Position müssen eingehalten werden.
Für einen Drückerwinkel von 0° bei A und B, siehe Zeichnung 5000.345

The indicated angle of the pusher direction and the position must be fulfilled. For pusher angles of 0° (pusher A and B), see drawing 5000.345.

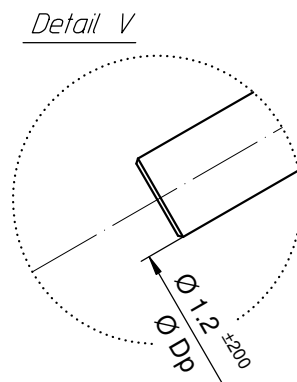
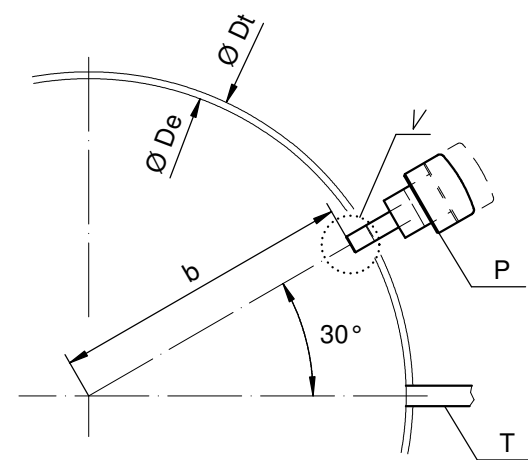
Cage
Uhrwerkgestell 12½"
Frame

RONDA

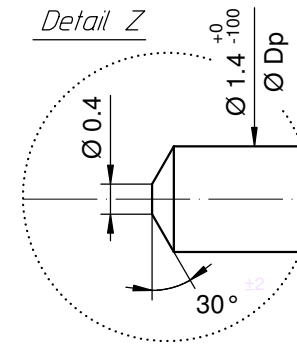
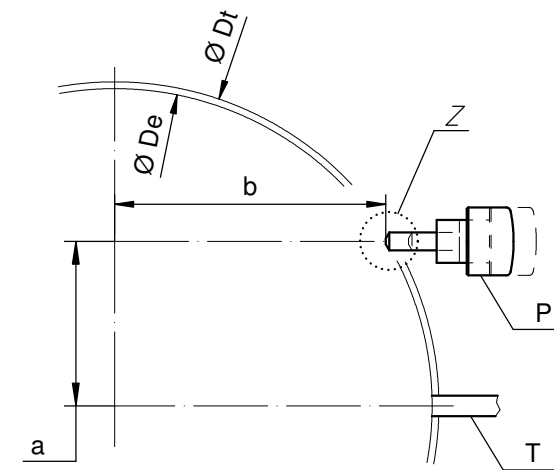
5040.B, 5040.D, 5030.D, 5021.D, 5040.E

Issued	08 Jan 2001	mg
Modified	31 Aug 2016 ÄA 34777	dh
Released	YES	
Tolerance	+/- 20 µm	
Scale	10 : 1 (5 : 1) (A3H)	
Sous réserve de modifications Äenderungen vorbehalten Modifications reserved		
No.	5000.315	10

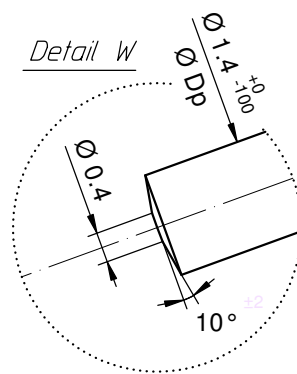
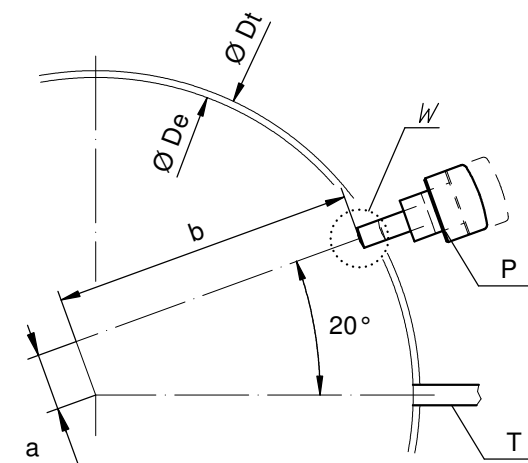
Angle Winkel Angle	30°	
Ø Dp	b	
1.00	13.50	
1.10	13.50	
1.20	13.50	
1.30	13.50	
1.40	13.50	



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

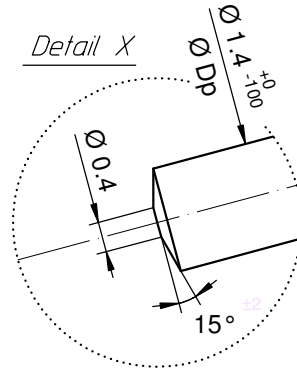
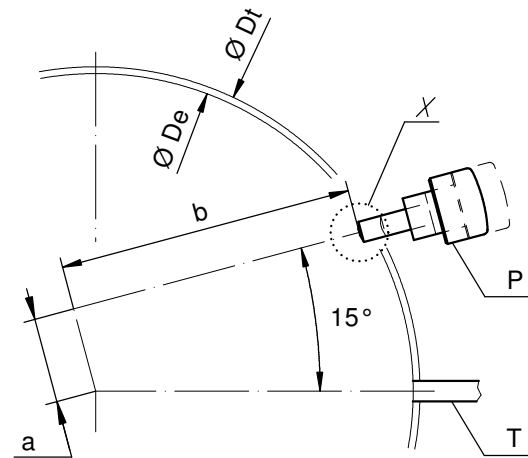
Ø Dp: diamètre du poussoir
Drückerdurchmesser
pusher-diameter

Ø Dt: diamètre total
Totaldurchmesser
total-diameter

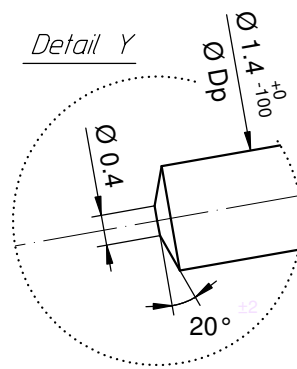
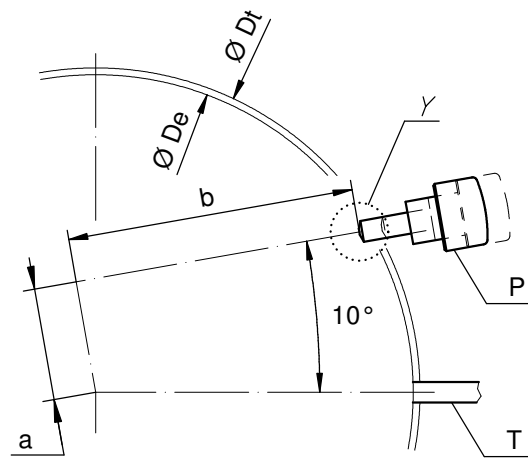
P: poussoir en position poussée
Drücker in gedrückter Stellung
pusher in pressed position

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



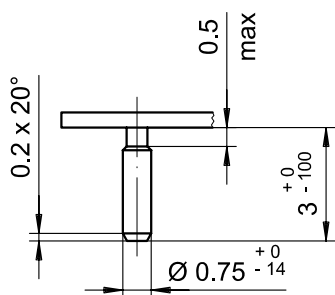
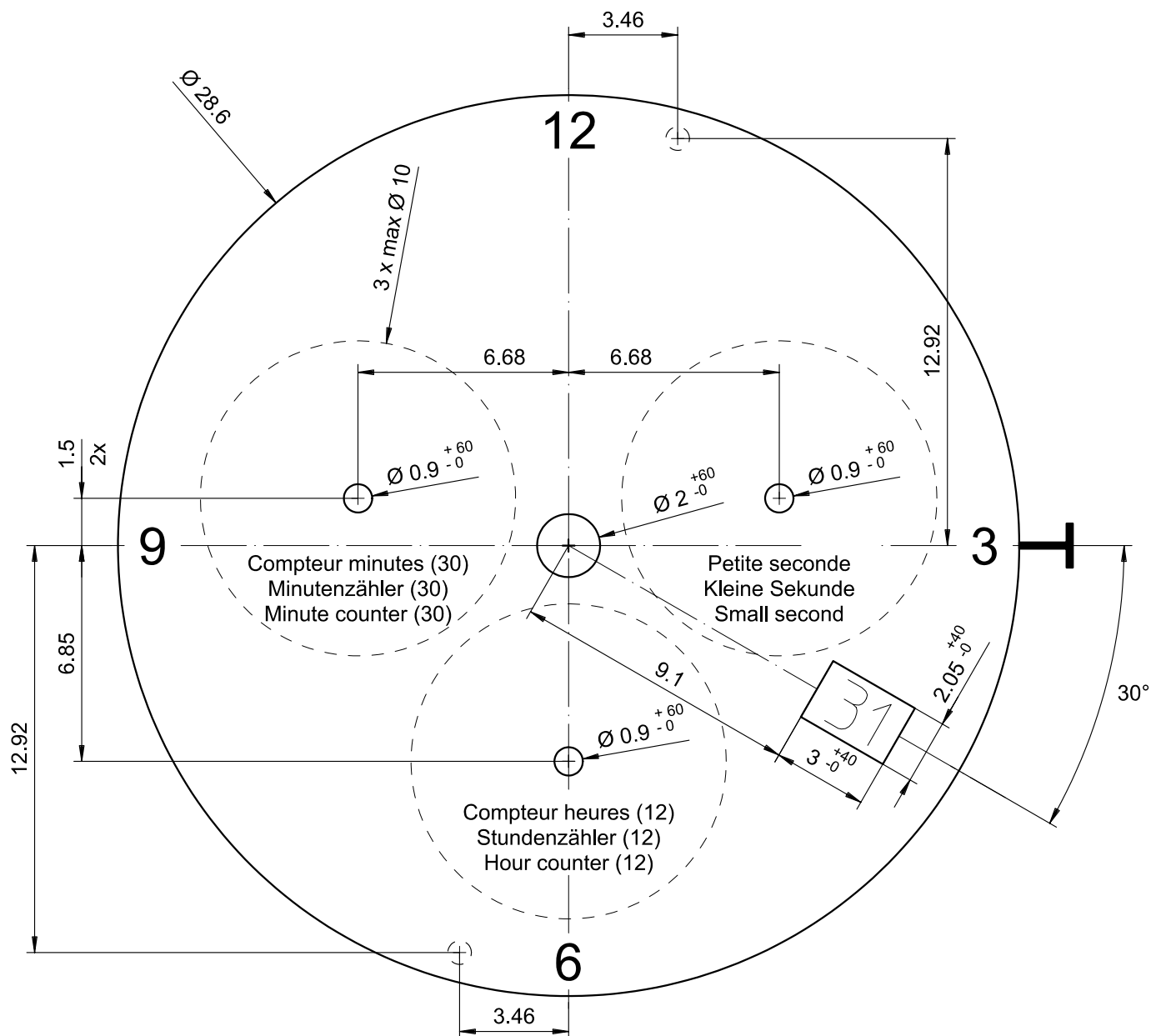
Angle Winkel Angle	10°	
Ø Dp	a	b
1.30	5.06	12.52
1.40	5.10	12.50



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	4H

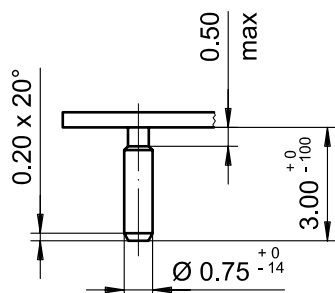
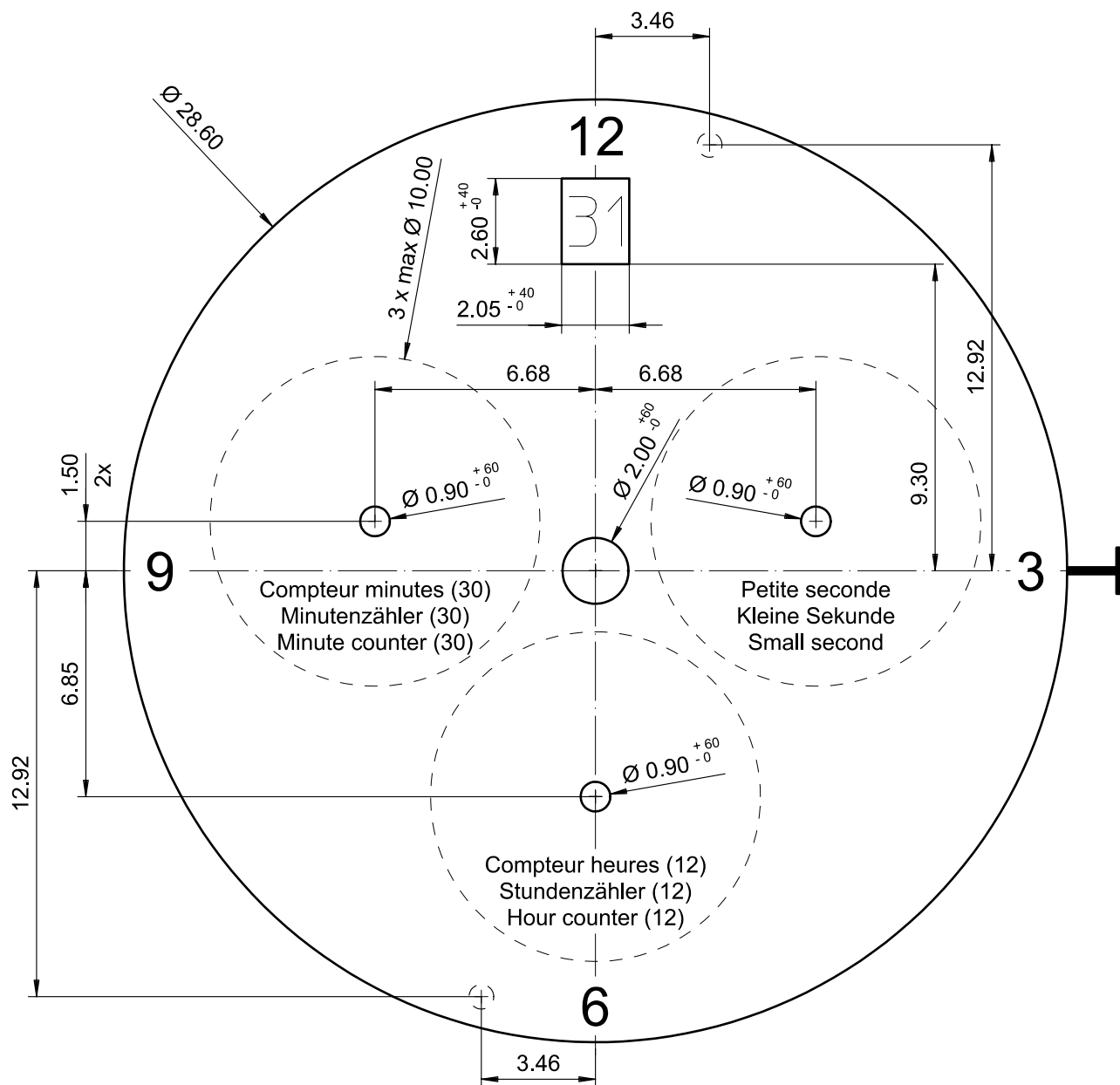
Cadran
Zifferblatt
Dial

12 1/2"

Issued	13 Dez 2006	cw
Modified	15.Dez.2006 ÄÄ ----	cm
Released	YES	
Tolerance	+/- 20 µm	
Scale	5 : 1 (A4V)	
Sous réserve de modifications Äenderungen vorbehalten Modifications reserved		
No.	5010.652	03

RONDA

5030.D



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

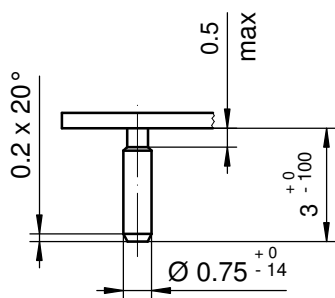
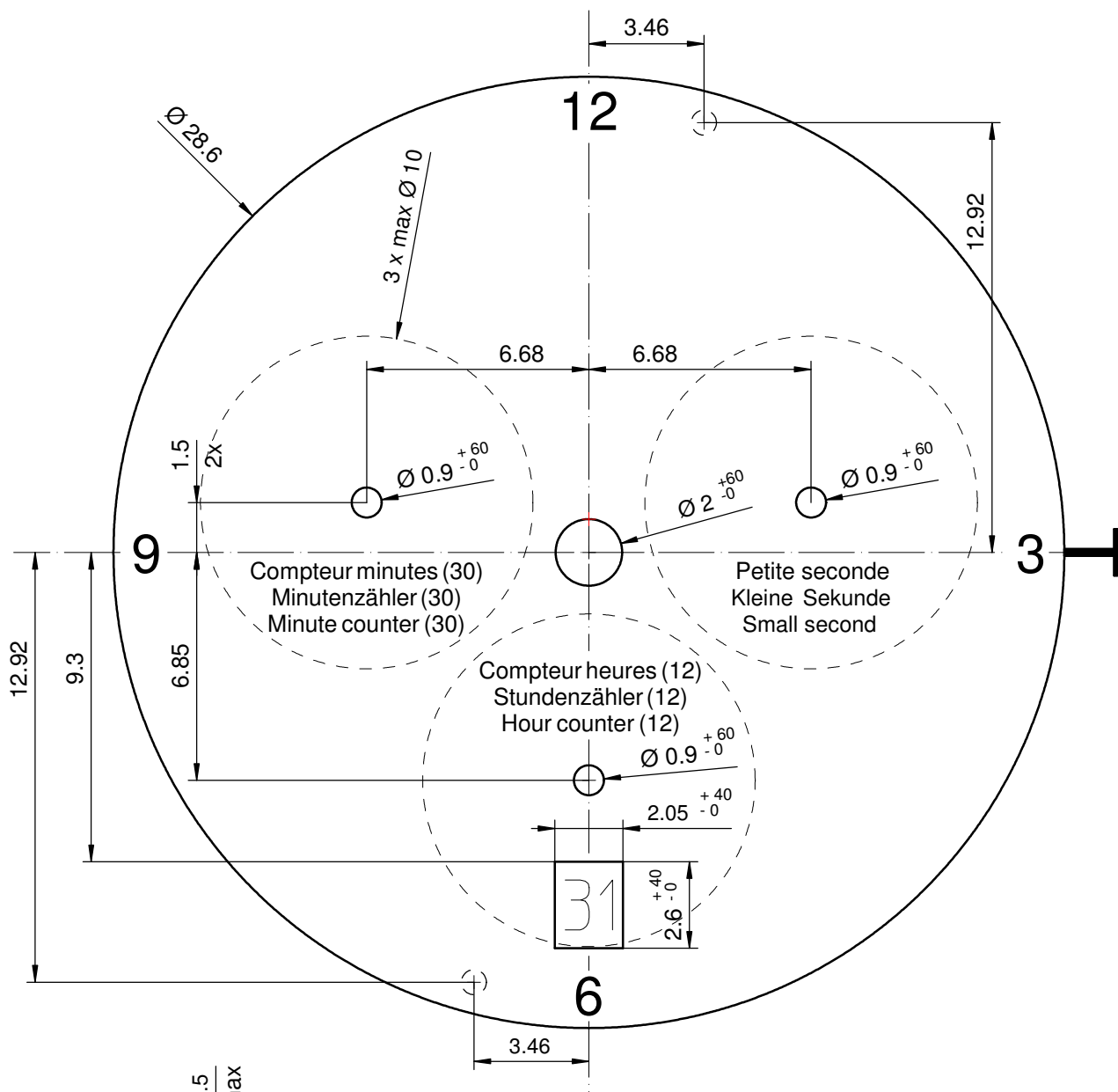
Cadran
Zifferblatt
Dial

12 1/2"

Issued	13 Dez 2006	cw
Modified	15.Dez.2006 ÄA ----	cw
Released	YES	
Tolerance	+/- 20 µm	
Scale	5 : 1 (A4V)	
Sous réserve de modifications Äenderungen vorbehalten Modifications reserved		
No.	5010.658	02

RONDA

5030.D

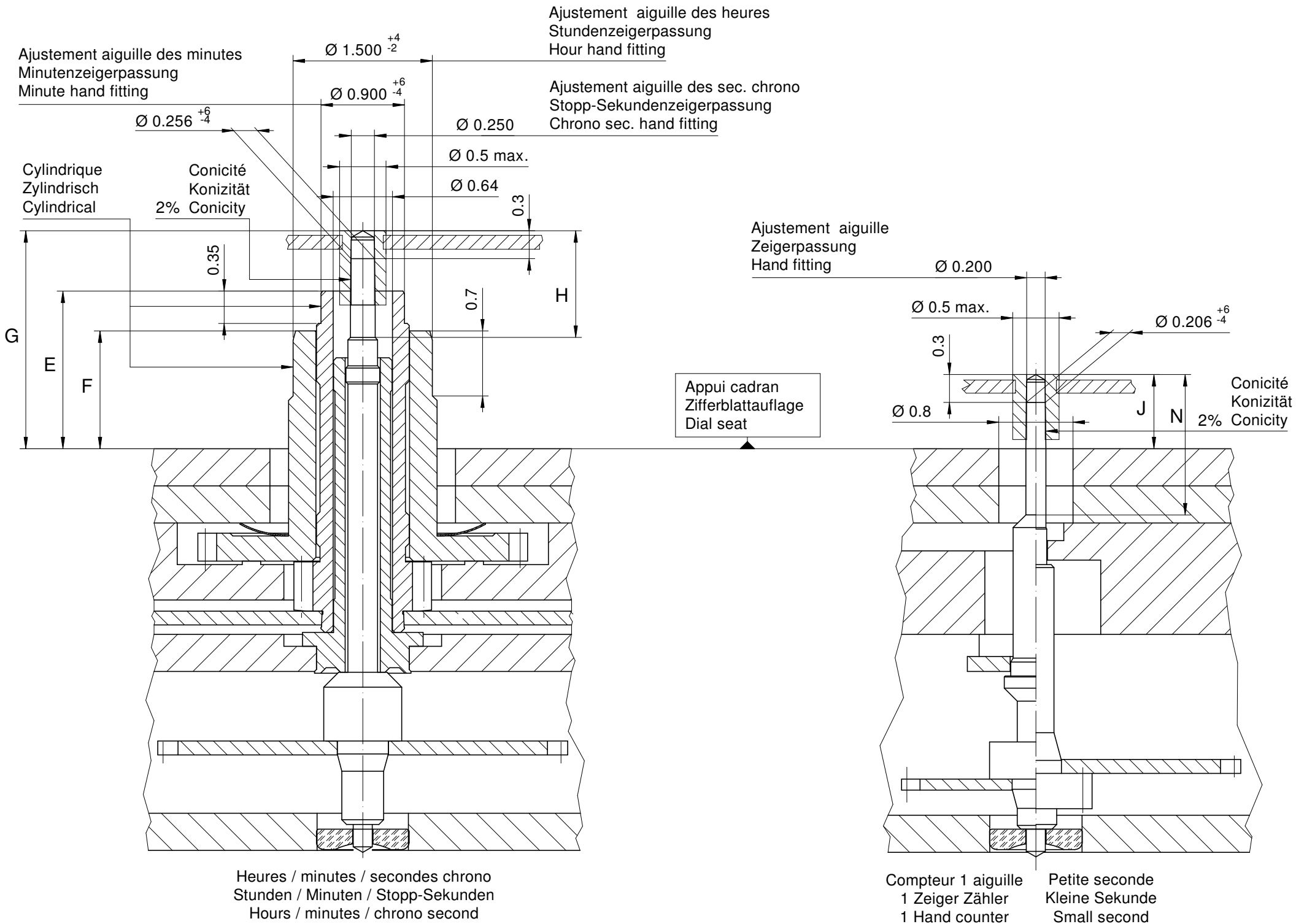


Epaisseur du cadran selon hauteur de l'aiguillage
Zifferblattdicke gemäss Zeigerwerkhöhen
Dial thickness according to hand fitting heights

Tige	Date
Stellw.	Datum
Stem	Date
3H	6H

Cadran Zifferblatt Dial		12½"		Date	20 Jun 2007	mK
				Checked		
				Tolerance	+/- 20 µm	
				Scale	5 : 1 (A4V)	
RONDA	5030.D	Sous réserve de modifications Änderungen vorbehalten Modifications reserved				
		No.	5010.661	00		

12 1/2"



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	1 aig. 1 Zeiger 1 Hand
	G	E	F	H	N	J	J
1	2.35	1.70	1.27	1.15	1.50	0.80	0.80
-							

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 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	Epaisseur des aiguilles Zeigerdicke Hands thickness
	1	1.85	1.30	0.85	0.40	0.15
-						

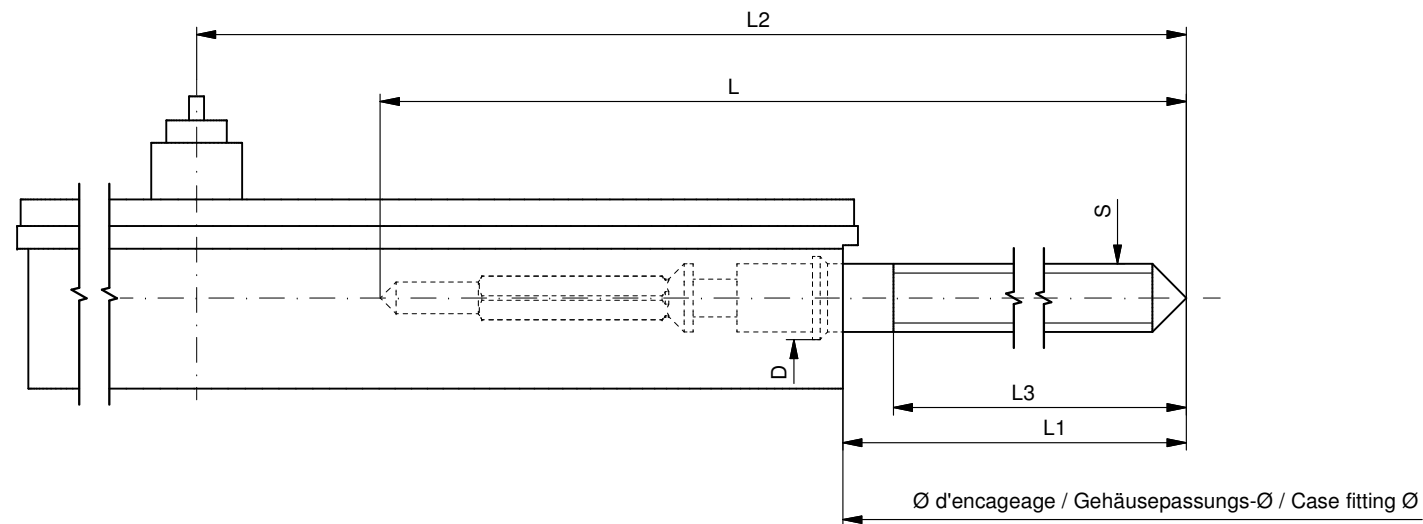
		Aig. des sec. chrono Stopp-Sekundenzeiger Chrono second hand	Aig. des minutes Minutenzeiger Minute hand	Aig. des heures Stundenzeiger Hour hand	Aig. petite secondes Kleine Sekundenzeiger Small second hand	Aiguille compteur (1 aig.) Zähler Zeiger (1 Zeiger) Counter hand (1 hand)	Lors de la pose d'aiguilles, 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	10	10	Masse / Masse / Weight *
µNm	max.	0.06	0.80	0.80	0.07	0.03	Balourd / Unwucht / Unbalance *
gmm ²	max.	1.0	-	-	0.4	1.0	Inertie / Massenträgheit / Inertia *
N	max.	30	40	40	30	30	Force de chassage / Aufpresskraft / Force

Aiguillages Zeigerwerkhöhen 12½" Hand fitting heights		Issued	07 Juli 2009	ps
		Modified	15 Okt 2014 ÄA 13275	dh
		Released	Yes	
		Tolerance	µm	
		Scale	20 : 1 (A3H)	
RONDA	5030.D	Sous réserve de modifications Änderungen vorbehalten Modifications reserved		
		No.	3316.132	02

* En cas de données différentes, veuillez contacter le service après-vente

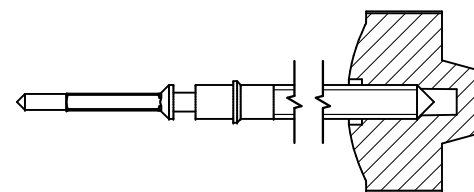
* Bei abweichenden Werten, bitte technischen Kundendienst anfragen

* In case of different values, please contact the customer service



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

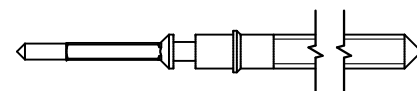
No. d'article Artikelnummer Part number	L	L1	L2	L3	S	D
3000.177.CO	20.00	10.23	24.23	10.15	0.90	1.10



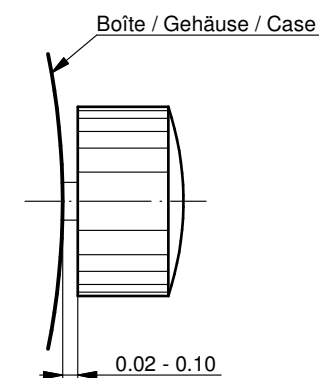
Couleur de la couronne Kronenfarbe Crown color	bleu foncé dunkelblau dark blue
Code	UN 5002

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

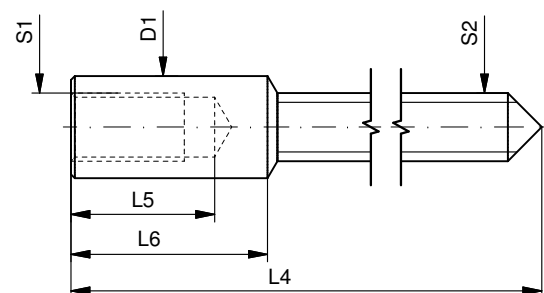


Couronne vissée
Geschraubte Krone
Screwed crown

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.1A

Fitting dial and hands

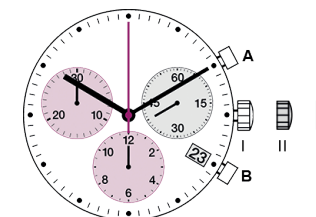
- Crown in position III
- Wind crown forwards, until date changes
- Remove working stem
- Fit dial
- Point all hands towards 12 o'clock
- Set time
- Zero chronograph hand*
- Crown in position II
- Set date
- Crown in position I

Date switching duration:

~1¼hrs

*Zeroing the Chronograph hand

- Activate pusher 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 hand position



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

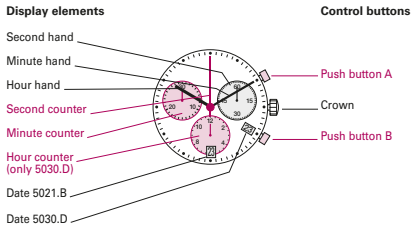
Other hands: <30N

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

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.

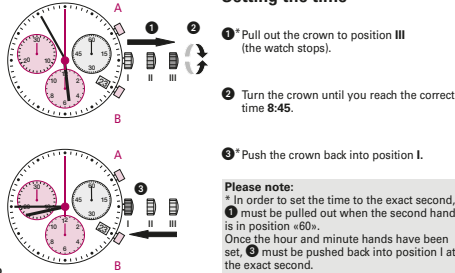
In case of repairs, guarantee claims and questions concerning the functioning of a watch, purchasers and consumers should contact their retailer or the watch manufacturer, for which the relevant information can be found in the sales or guarantee documentation provided with the watch.

Description of the display and control buttons



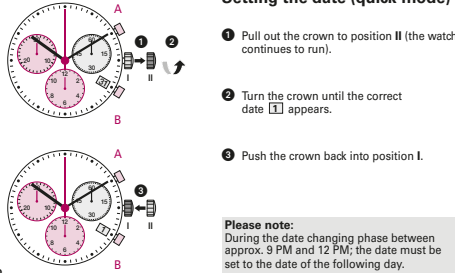
01

Setting the time



02

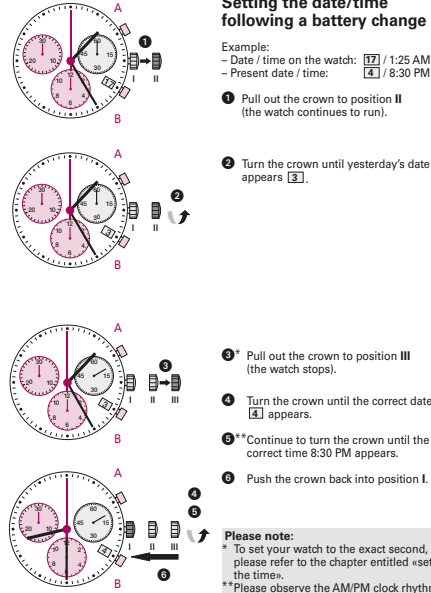
Setting the date (quick mode)



03

Setting the date/time following a battery change

Example:
– Date / time on the watch: **17** / 1:25 AM
– Present date / time: **4** / 8:30 PM



04

Chronograph: Basic function

(Start / Stop / Reset)

Example:

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

05

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, ...).

06

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, ...).

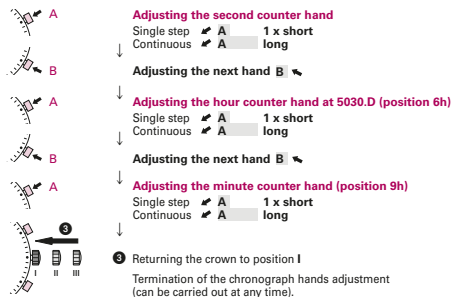
07

Adjusting the chronograph hands to zero position

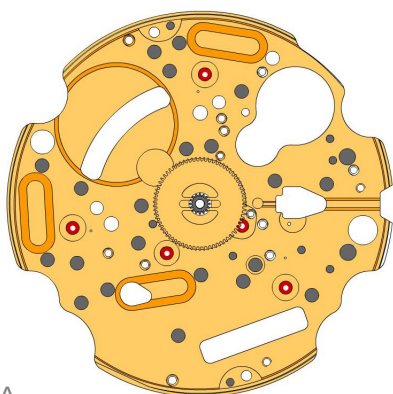
Example:

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

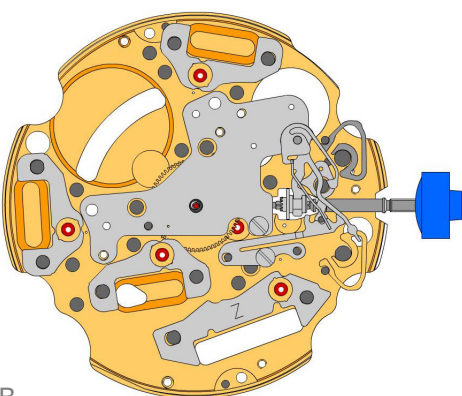
- 1** Pull out the crown to position III (all chronograph hands are in their correct or incorrect zero position).
- 2** Keep push-buttons A and B depressed simultaneously for at least 2 seconds (the second counter hand rotates by 360° → corrective mode is activated).



08

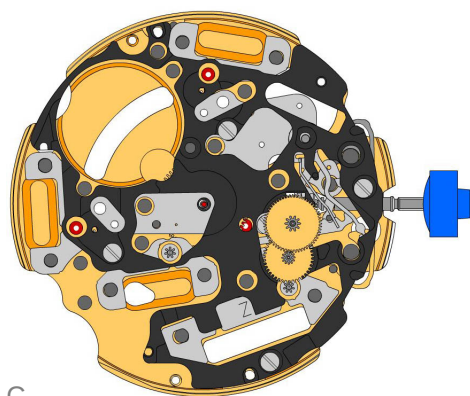


A



B

2000.574.G 1.		Main plate
3305.275.CO 2.		Cannon pinion with driver (Aig.1)
2030.017.CO 3.		Centre bridge Centre bridge held by 1 screw 4000.250.
4000.250 4.		Screw
3001.055.FI 5.		Sliding pinion
3000.177.CO 6.		Setting stem
3017.049 7.		Setting lever
3905.049 8.		Setting lever jumper (3 positions) Setting lever jumper held by 1 screw 4000.250.
4000.250 9.		Screw
3015.081 10.		Yoke (3 positions)
3905.067 11.		Yoke spring Tensioning the spring arm.
3406.030 12.		Pusher jumper B Put the grey jumper between the two posts on the further side.
3406.038 13.		Pusher jumper A Put the yellow jumper between the two posts on the closer side.
3622.040 14.		Stator Mark [Z] on stator.
3622.039 15.		Stator (counter 6h, 9h and chrono)
3622.039 16.		Stator (counter 6h, 9h and chrono)
3622.039 17.		Stator (counter 6h, 9h and chrono)



C

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

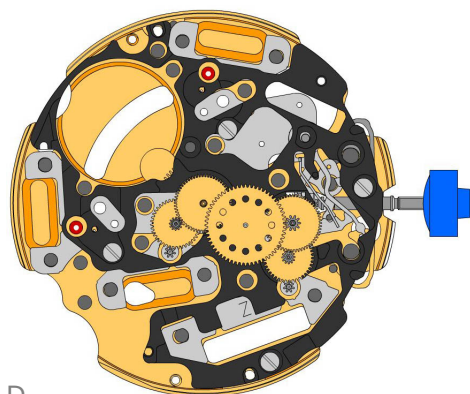
4000.250
19.  Screw

3715.094.RK
20.  Rotor

3715.094.RK
21.  Rotor

3147.046.CO
22.  Intermediate wheel

3136.142.CO
23.  Second wheel (long)

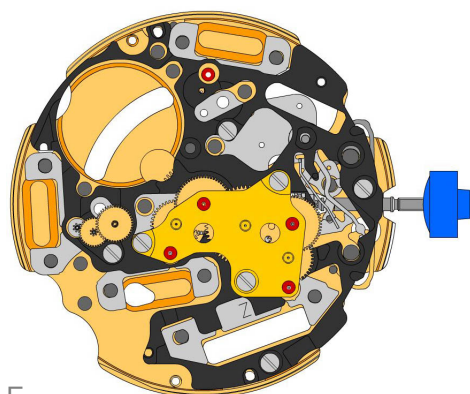


D

3147.047.CO
24.  Intermediate wheel (chrono)

3136.143.CO
25.  Chronograph wheel (Aig.1)

3122.056.CO
26.  Third wheel



E

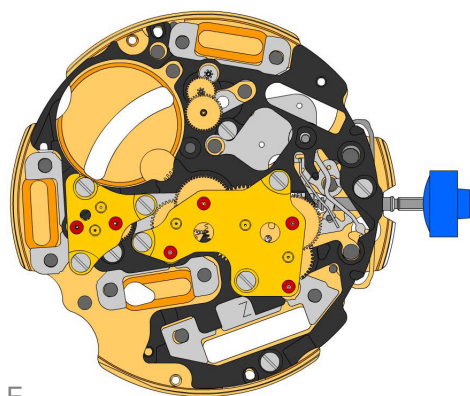
2020.148.G
27.  Train wheel bridge
Train wheel bridge held by 3 screws 4000.250.

4000.250
28.  Screw

3715.095.RK
29.  Rotor

3147.059.CO
30.  Intermediate wheel (counter)

3402.006.CO
31.  Minute counting wheel



F

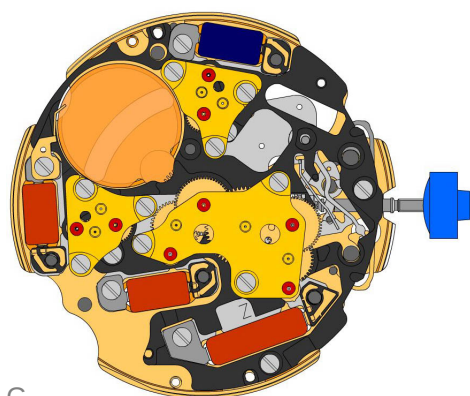
2020.149.G
32.  Counter train wheel bridge
Counter train wheel bridge held by 3 screws 4000.250.

4000.250
33.  Screw

3715.104.RK
34.  Rotor

3147.059.CO
35.  Intermediate wheel (counter 12h)

3402.006.CO
36.  Minute counting wheel



G

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

4000.250
38.  Screw

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

3621.054.RK
40.  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
41.  Coil (counter 9h, chrono)
Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.

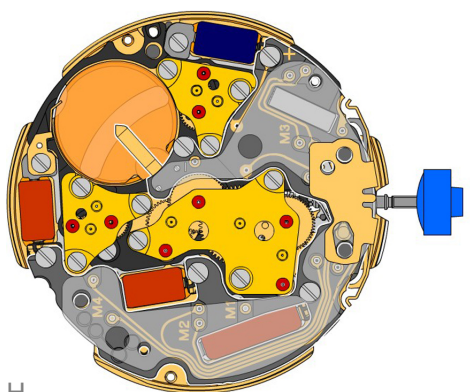
3621.055.RK
42.  Coil (counter 6h)
Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.

4000.250
43.  Screw

3601.118
44.  Contact strip
Contact strip held by 1 screw 4000.250.

4000.250
45.  Screw

3603.034
46.  Battery insulator



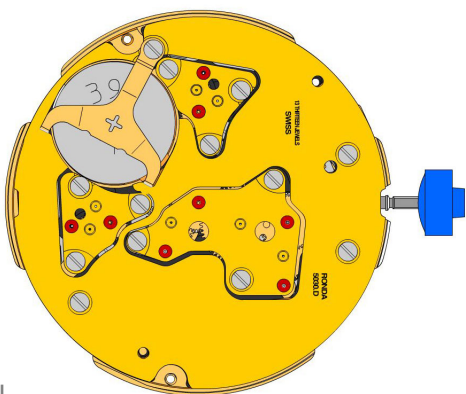
H

3612.210.5030
47.  Electronic module
Electronic module held by 5 screws 4000.248. Electronic measurements may be realised now.

4000.248
48.  Screw

3603.069
49.  Circuit insulator

3601.107.G
50.  Pusher contact spring

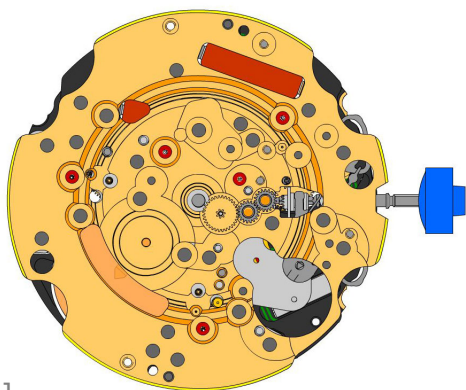


2130.137.G.M01.5030D
51.  **Electronic module cover**
Electronic module cover held by 3 screws 4000.250.

3600.010.HGF
52.  **Battery 395**

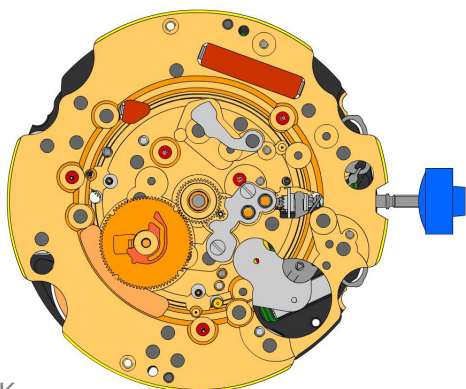
3601.109.G
53.  **Bridle +**
Bridle held by 1 screw 4000.250.

4000.250
54.  **Screw**



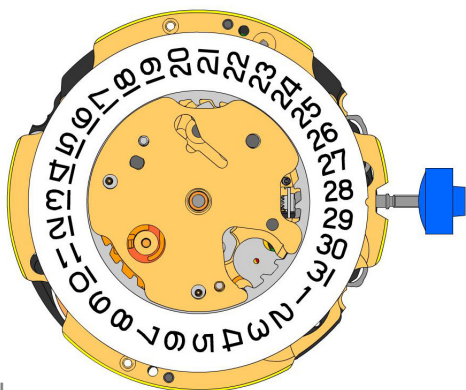
J

2000.574.G 55.		Main plate
3004.164 56.		Setting wheel
3004.164 57.		Setting wheel
3007.054.CO 58.		Minute wheel



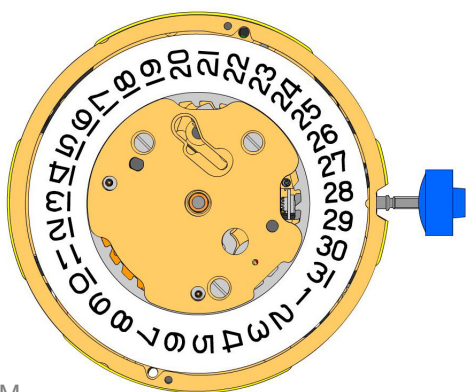
K

2130.143 59.		Minute train bridge Minute train bridge held by 2 screws 4000.305.
4000.305 60.		Screw
3301.241 61.		Hour wheel (Aig.1)
3315.016 62.		Friction spring
3004.224.CO 63.		Date indicator driving wheel
3500.049 64.		Date jumper



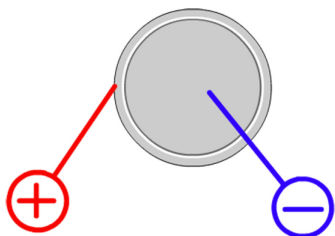
L

3504.208.AB.1.A 65.		Date indicator (standard) Nick of the indicator at 3 o'clock.
2130.141 66.		Date indicator maintaining plate Date indicator maintaining plate held by 1 screw 4000.250.

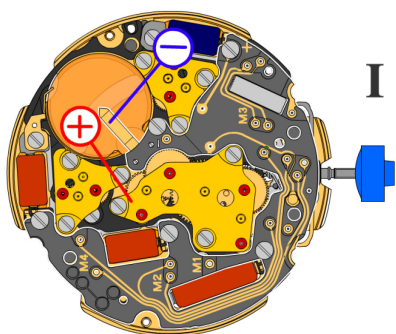


M

3905.070 67.		Date jumper spring Insert the date jumper spring in the provided opening.
2130.140.G 68.		Date mechanism maintaining plate Date mechanism maintaining plate held by 2 screws 4000.250.
4000.250 69.		Screw
3506.072.G 70.		Dial support
8200 71.		Moebius 8200
9014 72.		Moebius 9014
124 73.		Jismaa 124
9020 74.		Moebius 9020

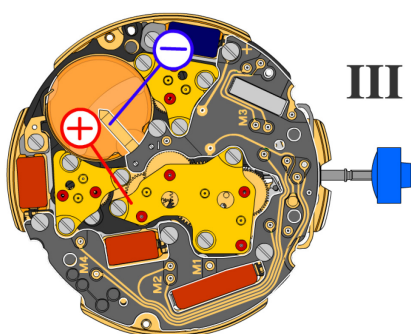


Battery	395
Voltage	1.55 V



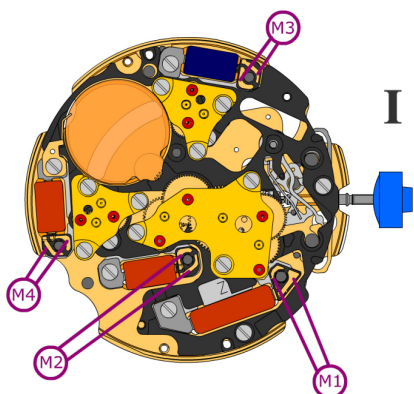
*Setting stem in position I, calendar not in gear,
60 s measuring interval for rate and consumption:*

Typical consumption	1.32 μA
Maximal consumption	1.65 μA
Rate	-10s/M. .. +20s/M.
Lower working voltage limit	1.20 V



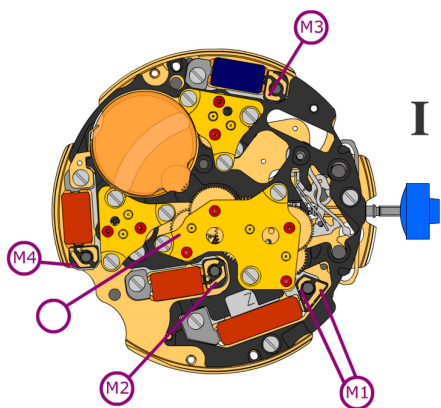
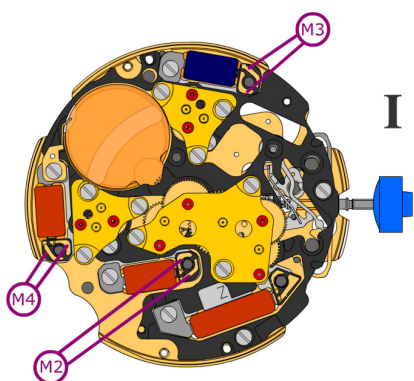
Setting stem in position III, 60 s measuring interval:

Typical consumption	0.10 μA
Maximal consumption	0.30 μA

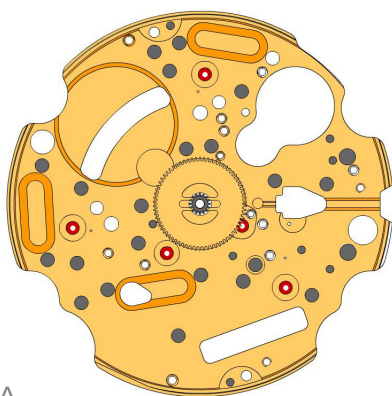

Coil resistance M1 **1.90 k Ω .. 2.10 k Ω**

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

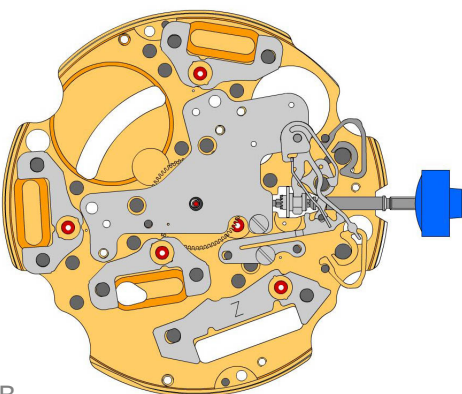
Coil resistance M3 **1.68 k Ω .. 1.88 k Ω**

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

Coil resistance M1/M2/M3/M4 **∞ k Ω**

Signal generator (4.9 ms, 8 Hz):

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

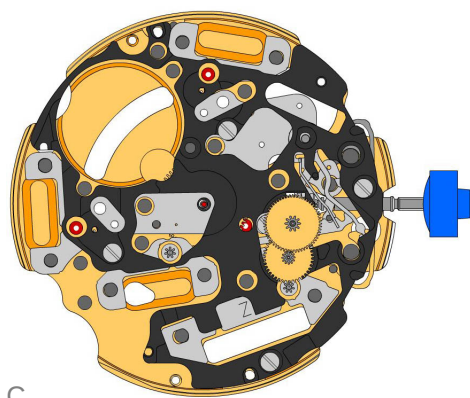


A



B

2000.574.G 1.		Main plate
3305.275.CO 2.		Cannon pinion with driver (Aig.1)
2030.017.CO 3.		Centre bridge Centre bridge held by 1 screw 4000.250.
4000.250 4.		Screw
3001.055.FI 5.		Sliding pinion
3000.177.CO 6.		Setting stem
3017.049 7.		Setting lever
3905.049 8.		Setting lever jumper (3 positions) Setting lever jumper held by 1 screw 4000.250.
4000.250 9.		Screw
3015.081 10.		Yoke (3 positions) Parts 3015.081 and 3905.067 must be exchanged together.
3905.067 11.		Yoke spring Tensioning the spring arm. Parts 3015.081 and 3905.067 must be exchanged together.
3406.030 12.		Pusher jumper B Put the grey jumper between the two posts on the further side.
3406.038 13.		Pusher jumper A Put the yellow jumper between the two posts on the closer side.
3622.040 14.		Stator Mark [Z] on stator.
3622.039 15.		Stator (counter 6h, 9h and chrono)
3622.039 16.		Stator (counter 6h, 9h and chrono)
3622.039 17.		Stator (counter 6h, 9h and chrono)



C

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

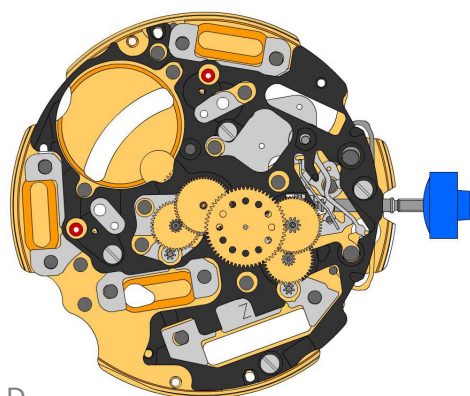
4000.250
19.  Screw

3715.094.RK
20.  Rotor

3715.094.RK
21.  Rotor

3147.046.CO
22.  Intermediate wheel

3136.142.CO
23.  Second wheel (long)

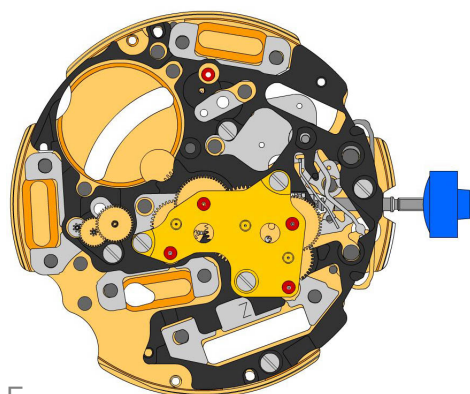


D

3147.047.CO
24.  Intermediate wheel (chrono)

3136.143.CO
25.  Chronograph wheel (Aig.1)

3122.056.CO
26.  Third wheel



E

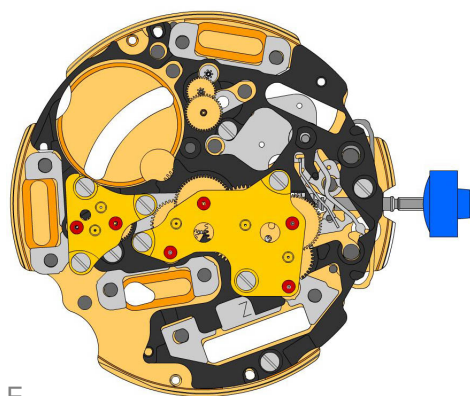
2020.148.G
27.  Train wheel bridge
Train wheel bridge held by 3 screws 4000.250.

4000.250
28.  Screw

3715.095.RK
29.  Rotor
Parts 3612.144.5030, 3715.095.RK and 3147.048.CO must be exchanged together.

3147.048.CO
30.  Intermediate wheel (counter)
Parts 3612.144.5030, 3715.095.RK and 3147.048.CO must be exchanged together.

3402.006.CO
31.  Minute counting wheel



F

2020.149.G
32.



Counter train wheel bridge
Counter train wheel bridge held by 3 screws 4000.250.

4000.250
33.



Screw

3715.095.RK
34.



Rotor

3147.048.CO
35.

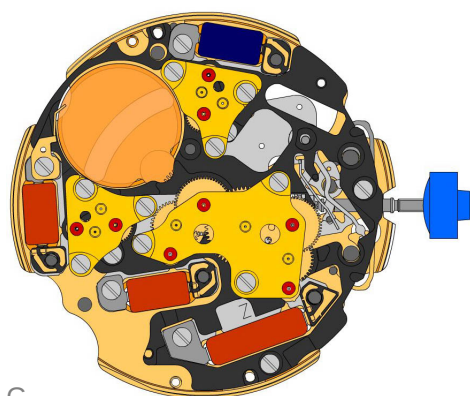


Intermediate wheel (counter 12h)

3402.006.CO
36.



Minute counting wheel



G

2020.149.G
37.



Counter train wheel bridge
Counter train wheel bridge held by 3 screws 4000.250.

4000.250
38.



Screw

3621.053.RK
39.



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

3621.054.RK
40.



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
41.



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
42.



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

4000.250
43.



Screw

3601.118
44.



Contact strip
Contact strip held by 1 screw 4000.250.

4000.250
45.

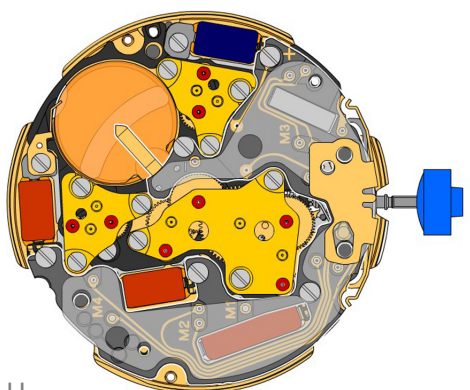


Screw

3603.034
46.



Battery insulator



H

3612.144.5030
47.



Electronic module
Electronic module held by 5 screws 4000.248. Electronic measurements may be realised now. Parts 3612.144.5030, 3715.095.RK and 3147.048.CO must be exchanged together.

4000.248
48.



Screw

3603.069
49.

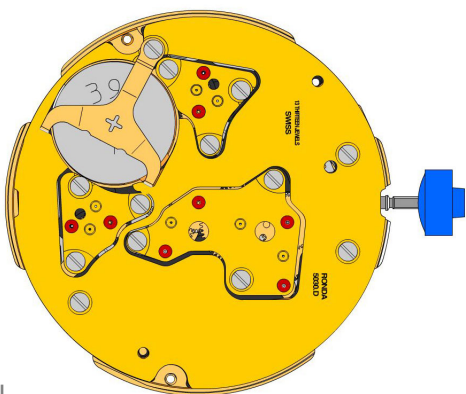


Circuit insulator

3601.107.G
50.



Pusher contact spring

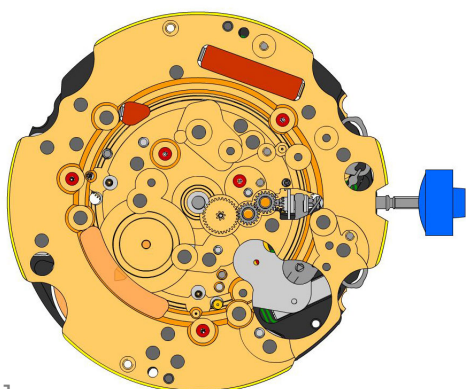


2130.137.G.M01.5030D
51.  **Electronic module cover**
Electronic module cover held by 3 screws 4000.250.

3600.010.HGF
52.  **Battery 395**

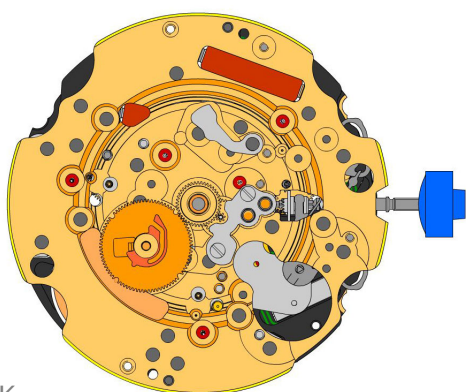
3601.109.G
53.  **Bridle +**
Bridle held by 1 screw 4000.250.

4000.250
54.   **Screw**



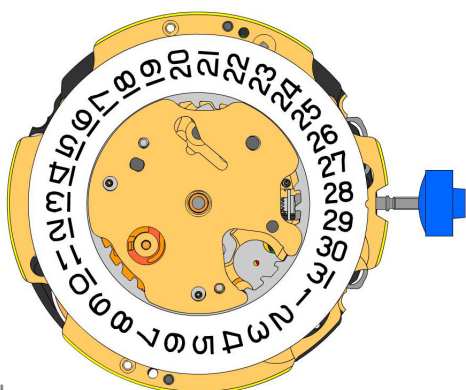
J

2000.574.G 55.		Main plate
3004.164 56.		Setting wheel
3004.164 57.		Setting wheel
3007.054.CO 58.		Minute wheel



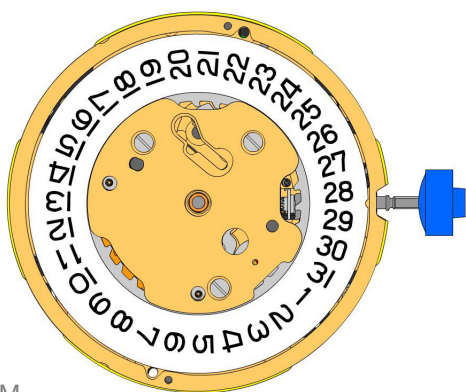
K

2130.143 59.		Minute train bridge Minute train bridge held by 2 screws 4000.305.
4000.305 60.		Screw
3301.241 61.		Hour wheel (Aig.1)
3315.016 62.		Friction spring
3004.224.CO 63.		Date indicator driving wheel
3500.049 64.		Date jumper



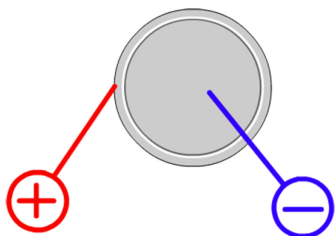
L

3504.208.AB.1.A 65.		Date indicator (standard) Nick of the indicator at 3 o'clock.
2130.141 66.		Date indicator maintaining plate Date indicator maintaining plate held by 1 screw 4000.250.

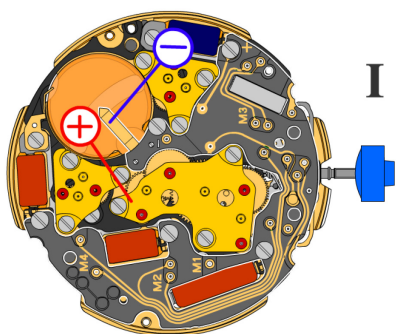


M

3905.070 67.		Date jumper spring Insert the date jumper spring in the provided opening.
2130.140.G 68.		Date mechanism maintaining plate Date mechanism maintaining plate held by 2 screws 4000.250.
4000.250 69.		Screw
3506.072.G 70.		Dial support
8200 71.		Moebius 8200
9014 72.		Moebius 9014
124 73.		Jismaa 124
9020 74.		Moebius 9020

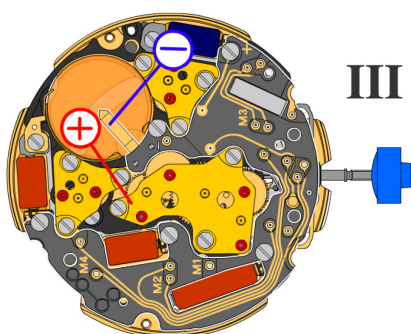


Battery	395
Voltage	1.55 V



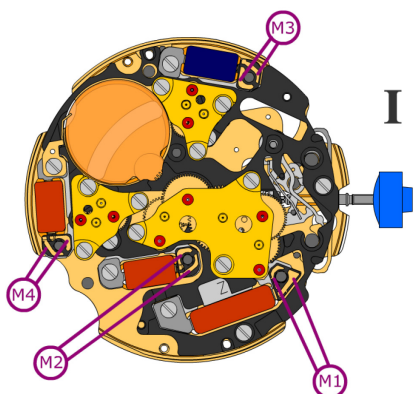
*Setting stem in position I, calendar not in gear,
60 s measuring interval for rate and consumption:*

Typical consumption	1.32 μA
Maximal consumption	1.65 μA
Rate	-10s/M. .. +20s/M.
Lower working voltage limit	1.20 V



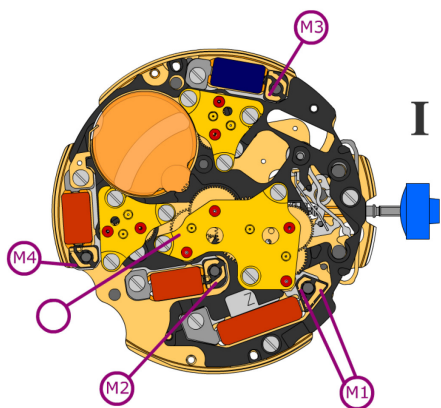
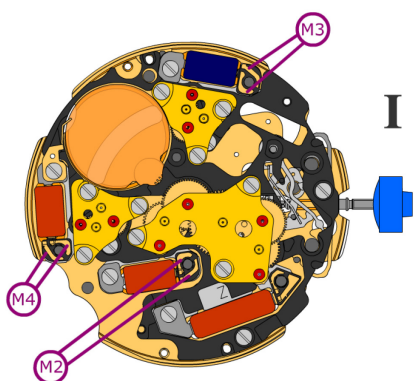
Setting stem in position III, 60 s measuring interval:

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 resistance M1/M2/M3/M4 **∞ k Ω**

Signal generator (4.9 ms, 8 Hz):

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