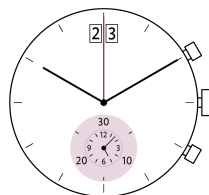


# Quartz Movements

## 计时功能

### 朗达 明星系列

型号 5010.B - 12□"



## 产品规格

指针式石英机芯

系列

明星系列

型号

5010.B

尺寸

12□"

版本 瑞士制造

10 钻石 / 金色

电池寿命

54 月

标准针高

2

## 特点

- 金属机芯，可修理
- 拉停把心省电功能：节省大概70%耗电
- 两个按掣简易操作
- 大日历可快调

## 功能

- 30分钟 / 12小时计时小眼
- 中心大秒计时（1/1秒）
- 12小时计时小眼
- 积累及分段计时
- 计时
- 大日历

# Quartz Movements

## 计时功能

### 朗达 明星系列

型号 5010.B - 12□”

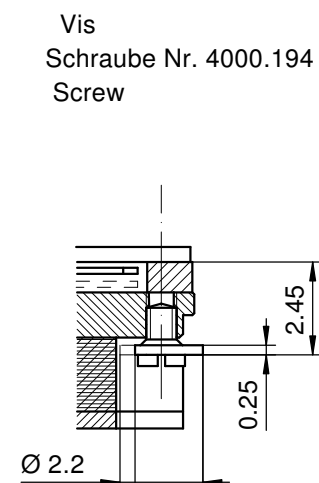
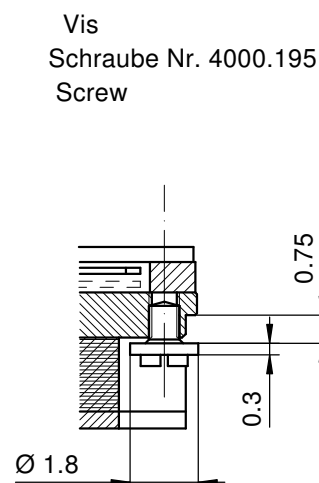
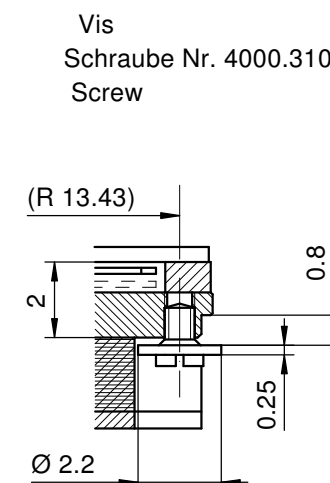
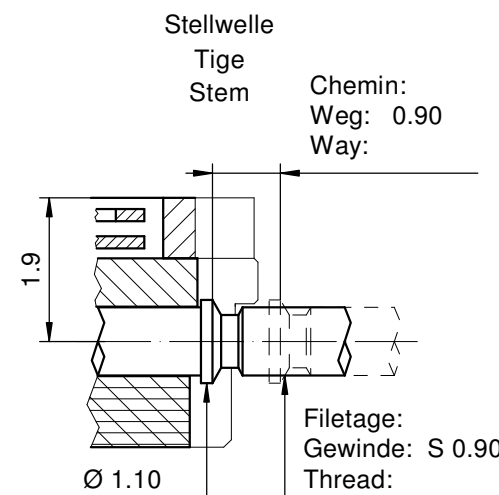
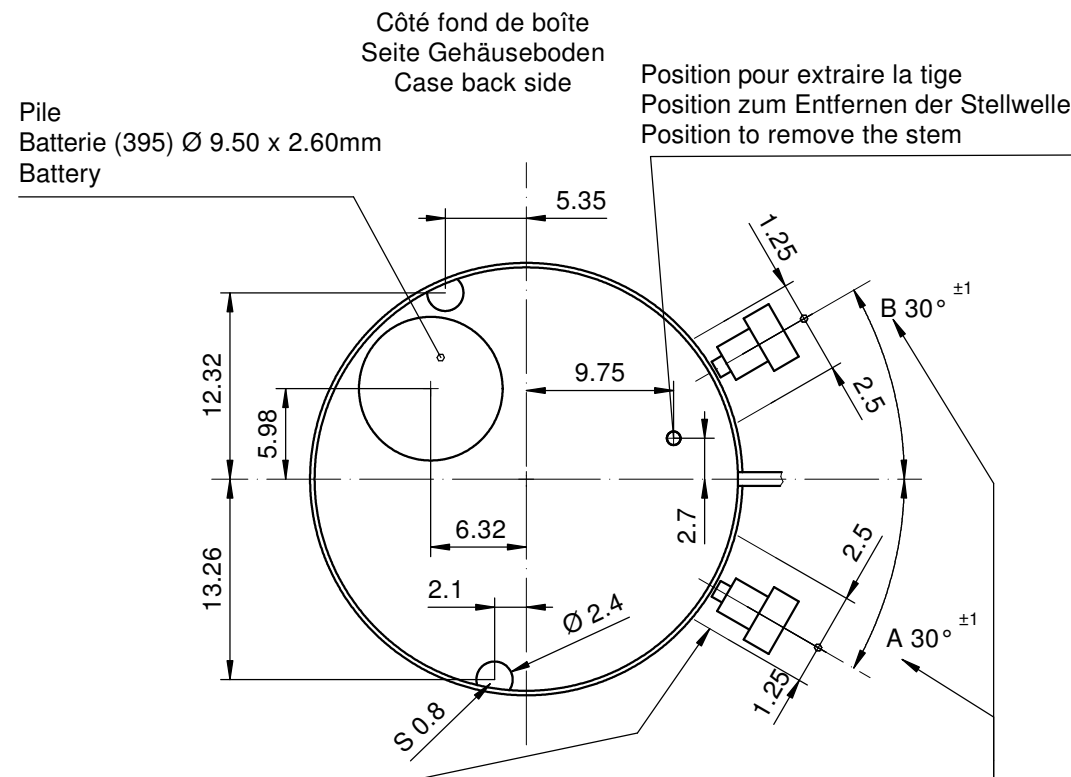
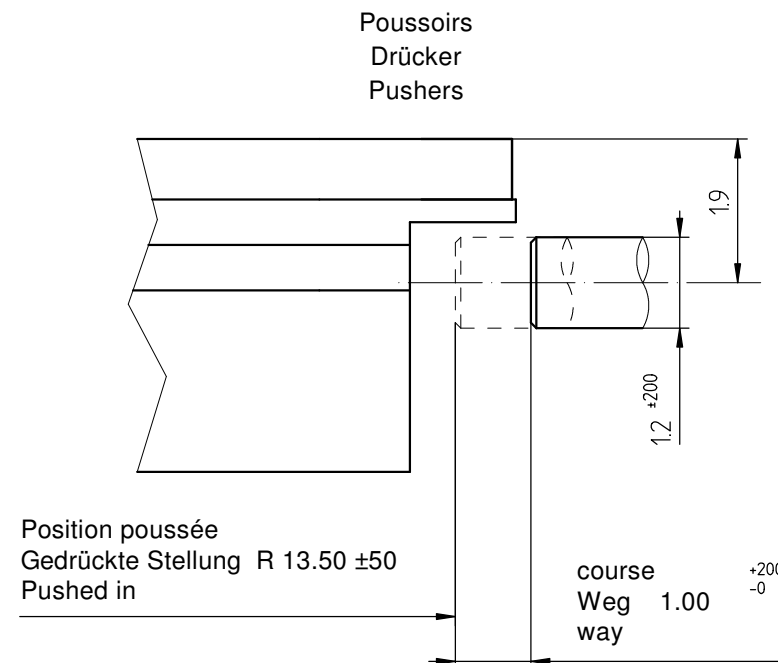
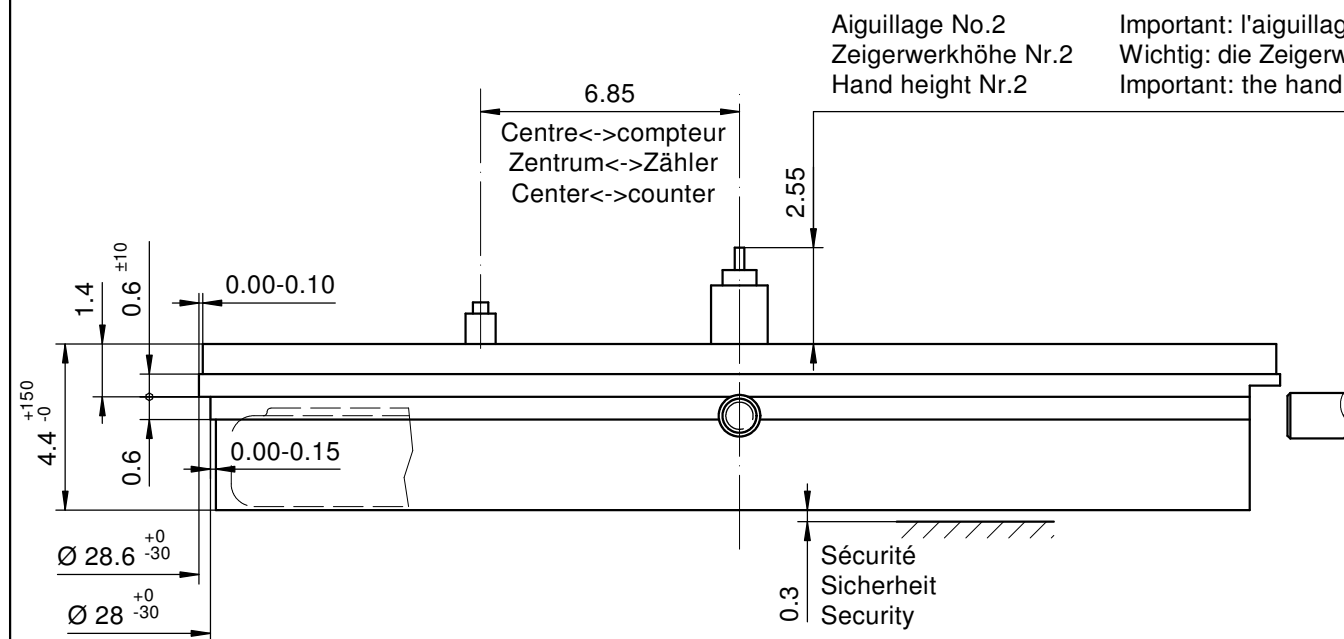
#### 技术规格

机芯直径	28.60 mm
内罩座位直径	28.00 mm
机芯厚度	4.40 mm
电池以上厚度	4.40 mm
机芯座位	0.60 mm
把中	1.90 mm
把心行程	0.90 mm
把心螺纹直径	0.90 mm
分针运行扭力 - 一般情况下	300 $\mu$ Nm
计时大秒针运行扭力 - 一般情况下	7 $\mu$ Nm
运作温度	0 - 50 °C
误差率	-10/ +20 秒/月
防磁度	18.8 Oe
防震度	NIHS 91-10

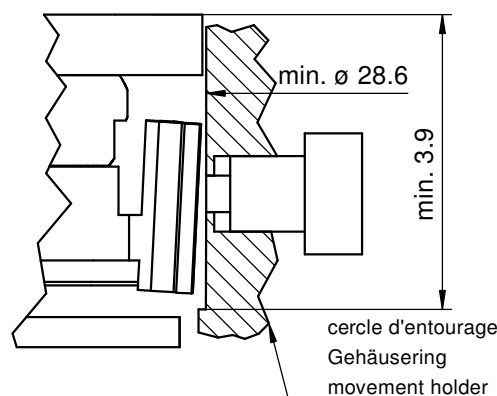


#### 电池规格

电池类型	型号 395
电池寿命	54 月
电压	1.5 V
电耗 - 一般情况下	1.32 $\mu$ A (日历不在跳动当中)
电耗 - 上限	1.65 $\mu$ A (日历不在跳动当中)



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

5010.B

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 held by the case

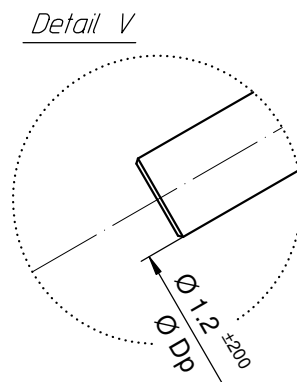
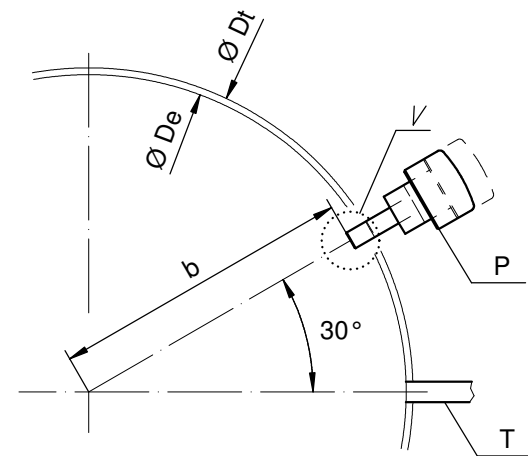
La course du poussoir doit être limitée dans le poussoir lui-même. Sa position poussée doit être contrôlée.

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

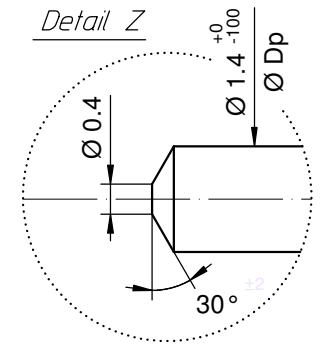
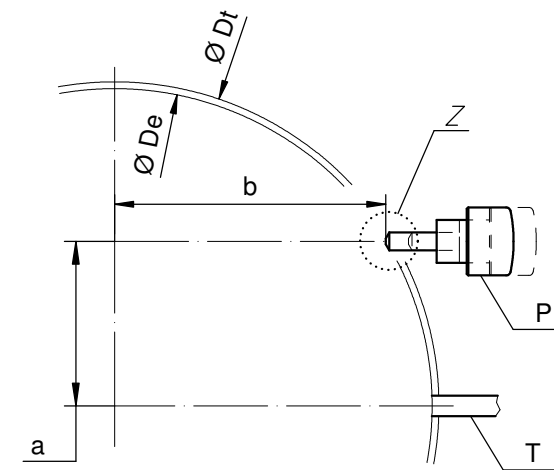
The way of the pusher has to be limited in the pusher itself. Its position must be checked while pushed in.

Issued	08 Jan 2001	mg
Modified	05 Sep 2016 ÄA 34777	dh
Released	YES	
Tolerance	+/- 20 µm	
Scale	10 : 1 (5 : 1) (A3H)	
Sous réserve de modifications Äenderungen vorbehalten Modifications reserved		
No.	5000.316	07

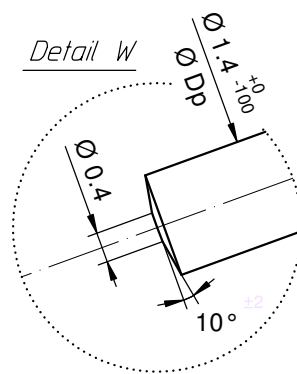
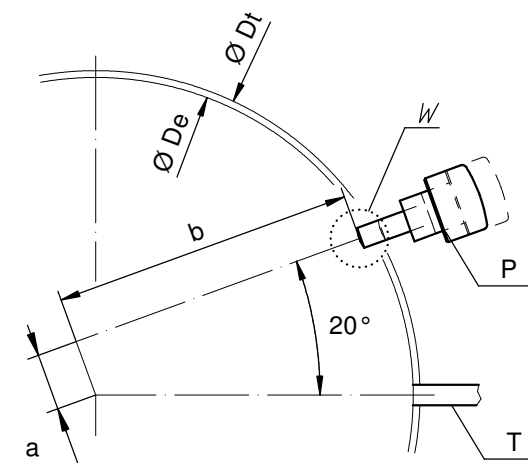
Angle Winkel Angle	30°	
Ø Dp	b	
1.00	13.50	
1.10	13.50	
1.20	13.50	
1.30	13.50	
1.40	13.50	



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

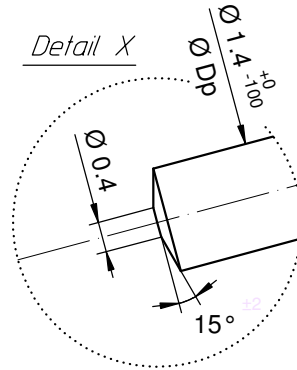
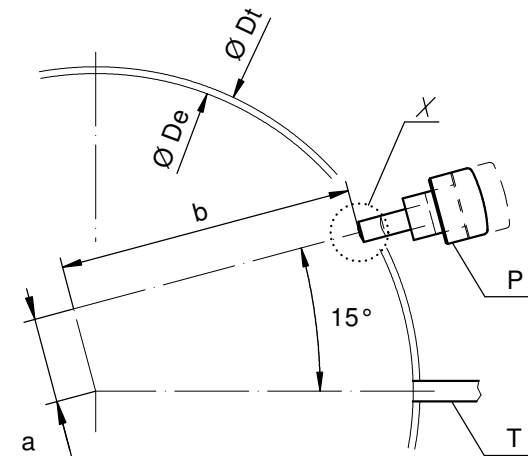
Ø Dp: diamètre du poussoir  
Drückerdurchmesser  
pusher-diameter

Ø Dt: diamètre total  
Totaldurchmesser  
total-diameter

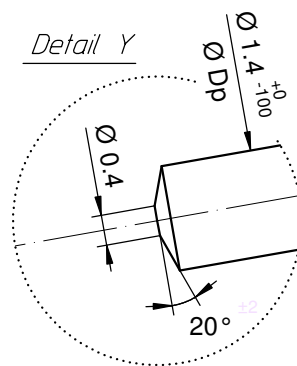
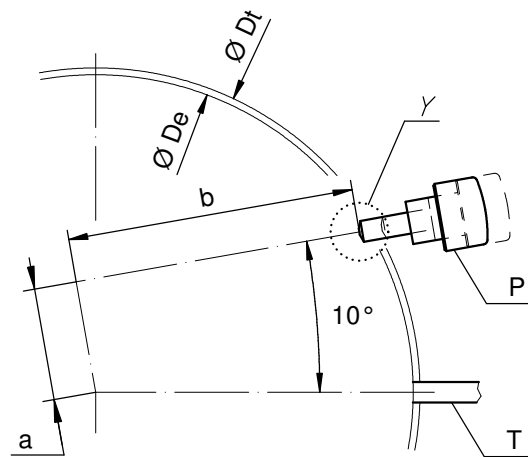
P: poussoir en position poussée  
Drücker in gedrückter Stellung  
pusher in pressed position

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

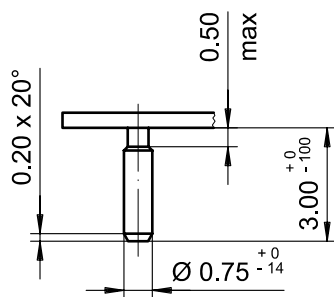


Angle des poussoirs A et B  
Winkel der Drücker A und B  
Angle of pusher A and B

RONDA 4xxx.x, 5xxx.x

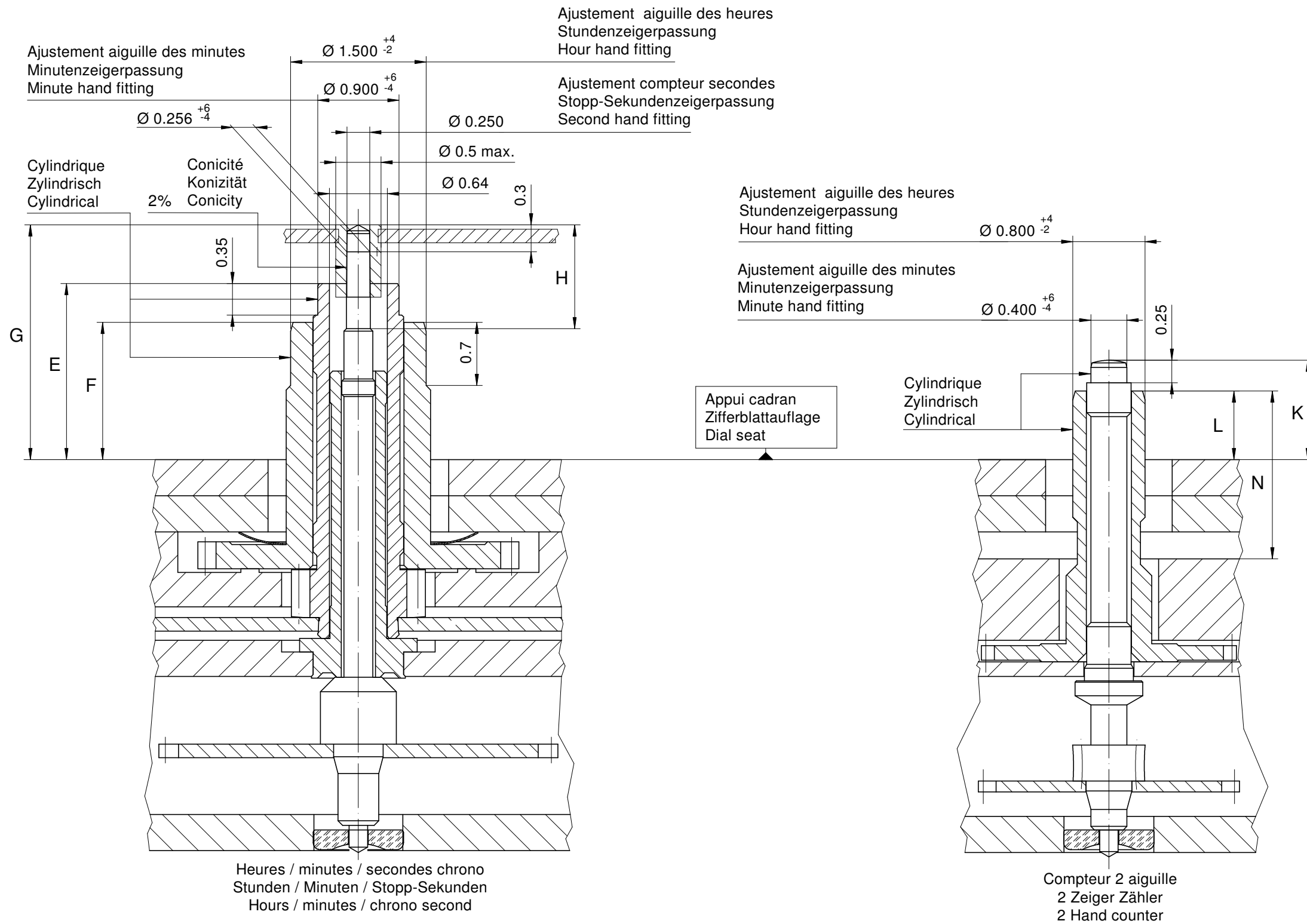
Issued	06 Sep 2004	mk
Modified	30.März 2005 ÄA 1784	mk
Released	YES	
Tolerance	+/- 20 µm	
Scale	10 : 1 (5 : 1) (A3H)	
Sous réserve de modifications Äenderungen vorbehalten Modifications reserved		
No.	5000.345	01





Tige	Date
Stellw.	Datum
Stem	Date
3H	12H
	<input type="text"/>

<div> <div>Cadran</div> <div>Zifferblatt</div> <div>Dial</div> </div> <div>12½"</div>		Issued	13 Dez 2006	cw
		Modified	15.Dez.2006 ÄÄ ----	cm
		Released	YES	
		Tolerance	+/- 20 µm	
		Scale	5 : 1 (A4V)	
RONDA	5010.B	Sous réserve de modifications Aenderungen vorbehalten Modifications reserved		
		No.	5010.690	03



Aiguillages Zeigerwerkhöhe Hand fitting height							
Dépassement Höhe über Zifferblattauflage Height over dial seat							
No	G	E	F	H	N	Compteur 2 aig. 2 Zeiger Zähler 2 Hand counter	
						Chaussée Minutenrohr Cannon-pinion	Roue des heures Stundenrad Hour wheel
2	2.60	1.95	1.52	1.15	1.85	1.10	0.76
-							

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		Compteur 2 aig. 2 Zeiger Zähler 2 Hand counter
							Epaisseur des aiguilles Zeigerdicke Hands thickness
2	2.10	1.55	1.10	0.70	0.40	0.15	
-							

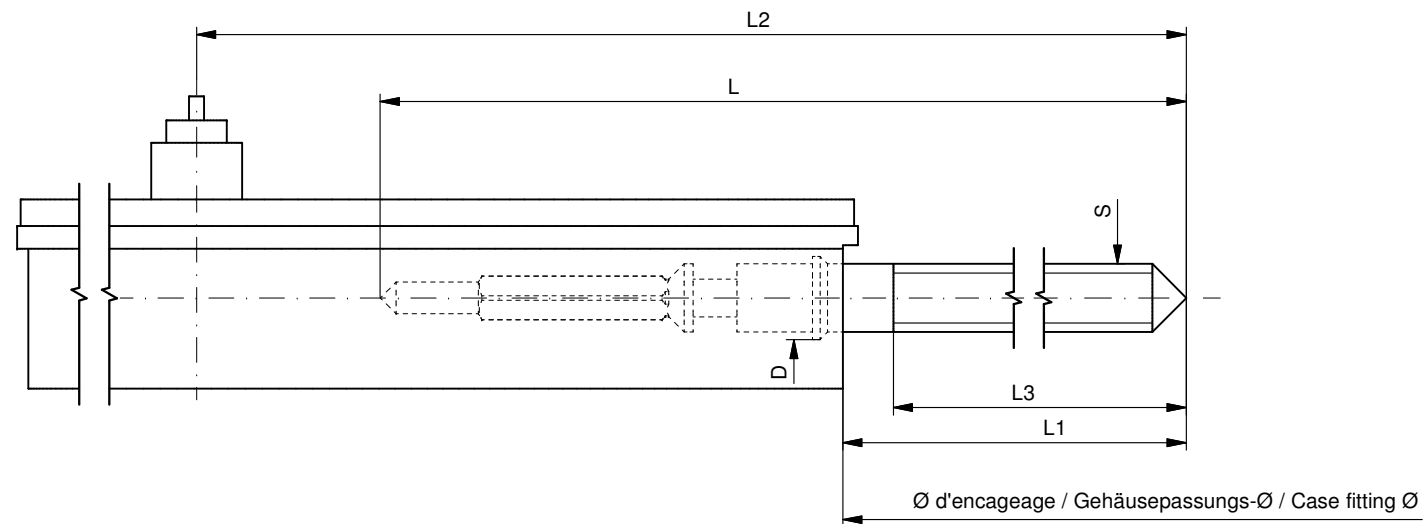
		Aig. des sec. chrono Stopp-Sekundenzeiger Chrono second hand	Aig. des minutes Minutenzeiger Minute hand	Aig. des heures Stundenzeiger Hour hand	Compteur 2 aiguille 2 Zeiger Zähler 2 Hand counter		Lors de la pose d'aiguilles, le mouvement doit être soutenu. Beim Zeigersetzen muss das Werk abgestützt werden. The movement needs to be supported for hand setting.
					Aig. des minutes Minutenzeiger Minute hand	Aig. des heures Stundenzeiger Hour hand	
mg	max.	10	30	30	10	10	Masse / Masse / Weight *
μNm	max.	0.06	0.80	0.80	0.03	0.03	Balourd / Unwucht / Unbalance *
gmm <sup>2</sup>	max.	1.0	-	-	1.0	-	Inertie / Massenträgheit / Inertia *
N	max.	30	40	40	30	30	Force de chassage / Aufpresskraft / Force

Aiguillages Zeigerwerkhöhe 12½" Hand fitting heights		Issued	30 Sep 2002	mg
		Modified	15 Okt 2014 ÄÄ 13275	dh
		Released	Yes	
		Tolerance	μm	
		Scale	20 : 1 (A3H)	
RONDA 5010.B		Sous réserve de modifications Änderungen vorbehalten Modifications reserved		
		No.	3316.076	06

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

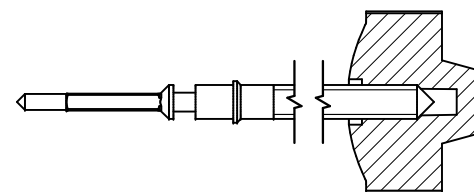
\* Bei abweichenden Werten, bitte technischen Kundendienst anfragen

\* 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)

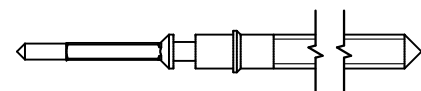
No. d'article Artikelnummer Part number	L	L1	L2	L3	S	D
3000.177.CO	20.00	10.23	24.23	10.15	0.90	1.10



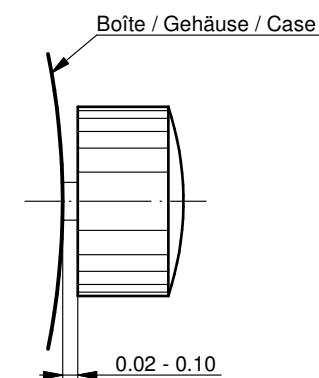
Couleur de la couronne Kronenfarbe Crown color	bleu foncé dunkelblau dark blue
Code	UN 5002

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

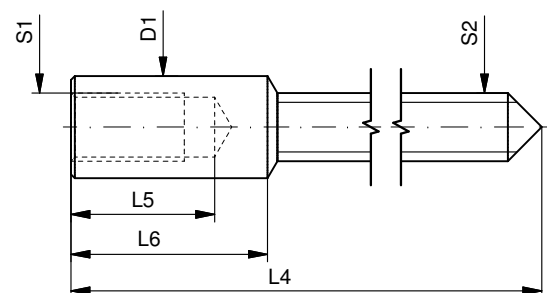


Couronne vissée  
Geschraubte Krone  
Screwed crown

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
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**Werkhalter**  
Stellwelle entfernen  
H5XXX.1T



**Werkhalter**  
Zeiger setzen  
H5XXX.1A

## Zifferblatt- und Zeigersetzen

- Krone in Position II
- Krone drehen bis das Datum 02 erscheint
- Krone in Position III
- Stundenzeiger vorwärts drehen bis das Datum auf 03 wechselt
- Arbeitszeiger entfernen
- Zifferblatt setzen
- Alle Zeiger in Richtung 12 Uhr setzen
- Uhrzeit einstellen
- Nullstellung der Chronographenzeiger\*
- Krone in Position II
- Datum einstellen
- Krone in Position I

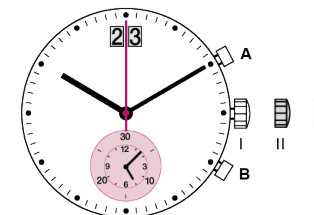
## Datumsschaltdauer

Einer- und Zehnerscheibe

~2h

## \*Nullstellung der Chronographenzeiger

- Drücker A und B für 2 Sekunden gleichzeitig betätigen  
(Chrono-Sekundenzeiger dreht sich einmal)
- Drücker A → Korrektur der Chronosekunde
- Drücker B → Sprung zum Minuten- und Stundenzeiger
- Drücker A → Korrektur der Zählerposition



## Allgemeine Hinweise

Das Entfernen der Stellwelle kann ausschliesslich in Pos. I erfolgen.

Zum Setzen der Zeiger ist die Verwendung von Abstützschrauben unerlässlich.

Zulässige Zeigersetzkkräfte:

Std.- / Min.-Zeiger: <40N

Übrige Zeiger: <30N

Während der Schnellkorrektur des Datums (Stellwelle in Position II) darf eine Kalenderschaltgeschwindigkeit von 5 d/s nicht überschritten werden.

朗达 明星系列 - 机芯型号 5010.B

中文 使用手册

瑞士朗达是一个机芯供应商, 没有参与制造或分销成表。

若有任何手表相关之疑问, 如维修、保证期内投诉或手表功能问题, 请联络手表零售商、服务中心或制造商。所有联络资料可向您的销售员查询或参考保证文件。

显示和控制按钮描述

显示项目

控制按钮

日曆

分针

时针

中心秒针

分钟计

小时计

按钮 A

把的

按钮 B

01

设定时间

1 把的拉至位置 III (腕表停止运行)。

2 转动把的至正确时间 8:45。

3\* 推把的回位置 I

注意:

为了设定准确的秒数, 当秒针指向 <60。拉把的设定是完小时及分钟后, 必须在正确的秒数将把的推回位置 I

02

设定日期 (快速模式)

1 把的拉至位置 II (腕表 继续运行)。

2 转动把的至正确日期 01。

3\* 推把的回位置 I。

注意:

9 PM至12 PM为日历转换时段, 若在这时段内设定日期, 必须比正确时间多转一天。

过快转换日期可能引致日期显示错误, 转换日期由 01 至 31 (把的位置 II) 可以使日期再次同步。

03

更换电池后设定日期/时间

例子:

- 腕表上的日期/时间 12/1:25 AM

- 现在的日期/时间 04/8:30 PM

1 把的拉至位置 II (腕表继续运行)。

2 转动把的至昨日日期 03。

3\* 把的拉至位置 III (腕表停止运行)。

4 继续转动把的至正确日期 04。

5\*\* 继续转动把的至正确时间 8:30 PM

6 将把的推回位置 I

注意:

\* 为了设定至准确的秒数 请参阅节录。设定时间。

\*\* 请注意腕表上的 AM/PM 模式

04

计时器 (基本功能)

(开始 / 停止 / 还原)

例子:

1 开始: 按下按钮 A。

2 停止: 再按下按钮 A 停止计时, 然后阅读计时计: 4小时/20分/38秒

3 返回零位置: 按下按钮 B (计时指针会还原到零位置)。

05

计时器: 计算累积时间

例子:

1 开始: (开始计时)

2 停止: (例子: 15分 5秒 1后)

3 再开始: 继续计时

4\* 停止: (例子: 5分 12秒 3后)

= 20分 17秒 (显示累积计算时间)

5 还原: 计时指针会还原到零位置。

注意:

\* 步骤 2后, 可再按下按钮 A 继续计算累积时间 (再开始 / 停止, 再开始 / 停止, ...)

06

计时器: 计算分段时间

例子

1 开始: (开始计时)

2 显示分段时间: 例子 20分钟 17秒 (指针停止, 计时器仍然在背 后运行)

3 追时: (计时指针会迅速到达持续计算的时间)。

4 停止: (显示最后的时间)

5 还原: 计时指针返回零位置

注意:

\* 步骤 2后, 可再按下按钮 B 继续计算分段时间 (显示分段时间 / 追时, ...)

07

调较计时指针到零位置

例子:

当有时指针不在零位置时, 便需要调较指针 (例如: 更换电池后)。

1 把的拉至位置 III (计时指针在/不在零位置)。

2 同时及持续按下按钮 A 及 B 最少 2 秒 (中心秒针会转动360° → 修正模式启动)。

调较中心秒针

单步前进 1x 短按

连续前进 长按

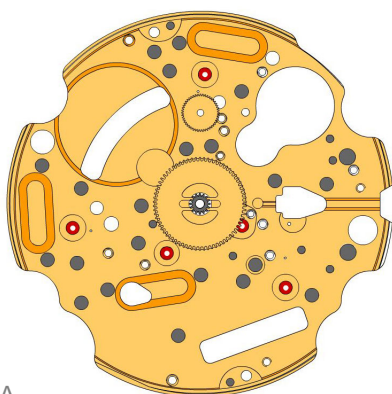
调较分钟计及小时计指针 (机械连接)

单步前进 1x 短按

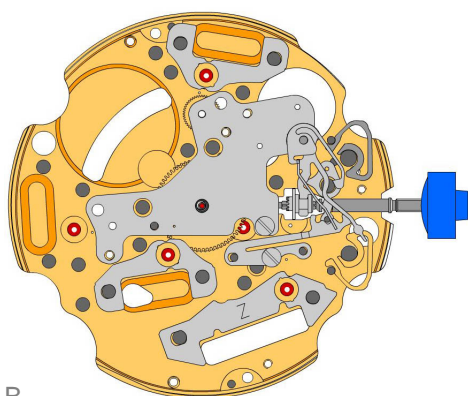
连续前进 长按

3 推把的回位置 I 结束调较计时指针 (在 任何时候执行)。














08

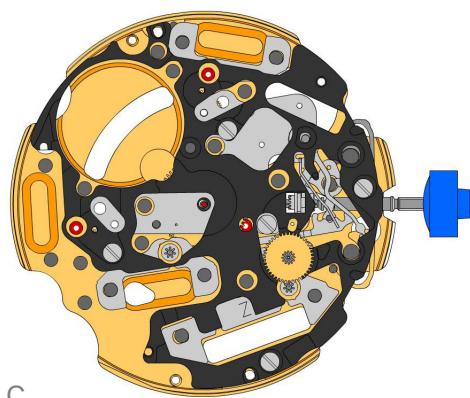


A




B

2000.574.G 1.		Main plate
3305.282.CO 2.		Cannon pinion with driver (Aig.2)
3301.244 3.		Hour wheel (counter 24h)
2030.017.CO 4.		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 5.		Screw
3001.055.FI 6.		Sliding pinion
3000.177.CO 7.		Setting stem
3017.049 8.		Setting lever
3905.049 9.		Setting lever jumper (3 positions) Setting lever jumper held by 1 screw 4000.250.
4000.250 10.		Screw
3015.081 11.		Yoke (3 positions) Parts 3015.081 and 3905.067 must be exchanged together.
3905.067 12.		Yoke spring Tensioning the spring arm. Parts 3015.081 and 3905.067 must be exchanged together.
3406.030 13.		Pusher jumper B Put the grey jumper between the two posts on the further side.
3406.038 14.		Pusher jumper A Put the yellow jumper between the two posts on the closer side.
3622.040 15.		Stator Mark [Z] on stator.
3622.039 16.		Stator (counter 6h, 9h, chrono)
3622.039 17.		Stator (counter 6h, 9h, chrono)



C

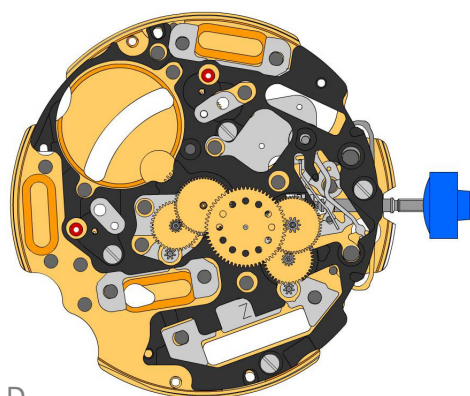
3603.079  
18.  Plastic bracket  
Plastic bracket held by 4 screws 4000.250.

4000.250  
19.  Screw


3715.094.RK  
20.  Rotor

3715.094.RK  
21.  Rotor


3147.046.CO  
22.  Intermediate wheel



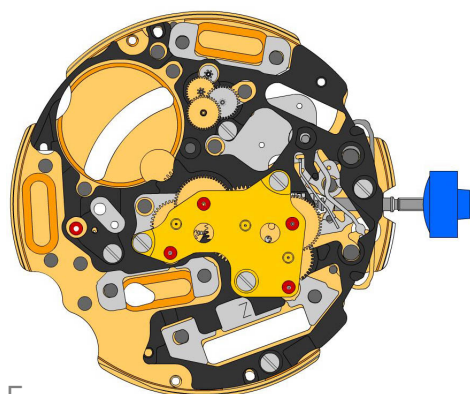
D

3136.148.CO  
23.  Second wheel (short)


3147.047.CO  
24.  Intermediate wheel (chrono)

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

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

3147.048.CO  
30.  Intermediate wheel (counter)

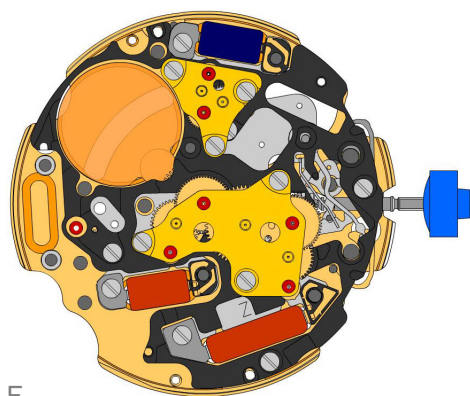
3007.056.CO  
31.  Minute wheel (counter 24h)

3402.008.CO  
32.  Minute counting wheel (24h)

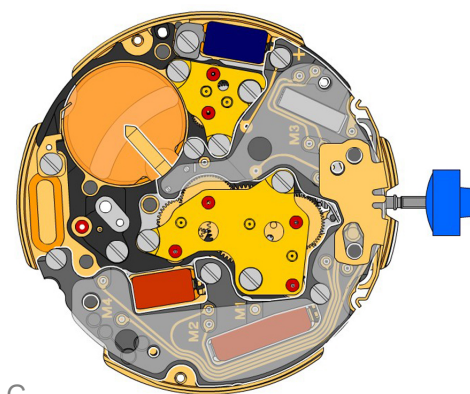
2020.149.G  
33.  Counter train wheel bridge  
Counter train wheel bridge held by 3 screws 4000.250.

4000.250  
34.  Screw

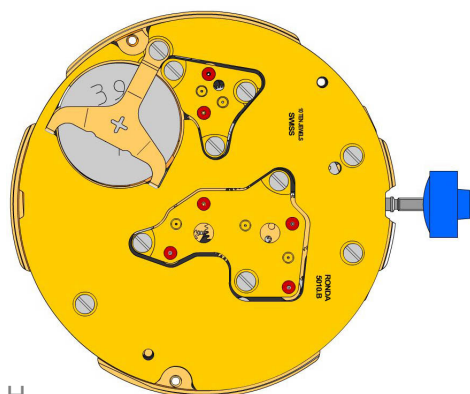





F





G



H

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

3621.079.RK  
36.  **Coil (centre)**  
Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.

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

4000.250  
38.  **Screw**


3603.034  
39.  **Battery insulator**

3503.071  
40.  **Tube**

3503.054  
41.  **Tube**

3601.118  
42.  **Contact strip**  
Contact strip held by 1 screw 4000.250.

4000.250  
43.  **Screw**

3612.144.5010  
44.  **Electronic module**  
Electronic module held by 5 screws 4000.248. Electronic measurements may be realised now.

4000.248  
45.  **Screw**

3603.069  
46.  **Circuit insulator**

3601.107.G  
47.  **Pusher contact spring**

2130.139.G.M01.5010B  
48.  **Electronic module cover**  
Electronic module cover held by 3 screws 4000.250.

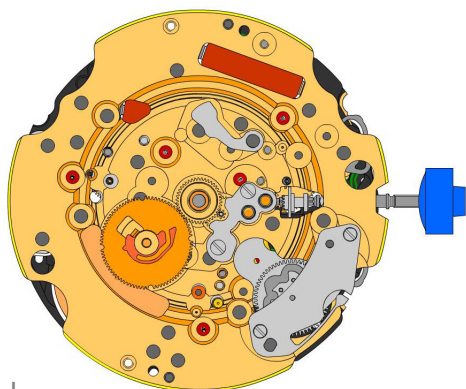
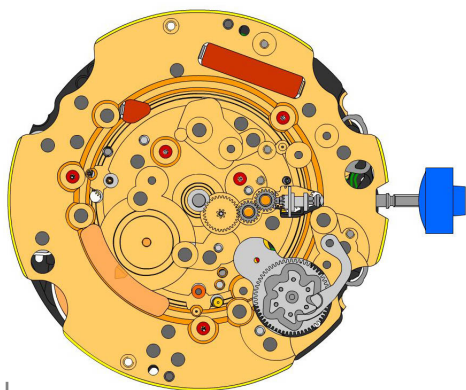
4000.250  
49.  **Screw**







3600.010.HGF  
50.  **Battery 395**









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

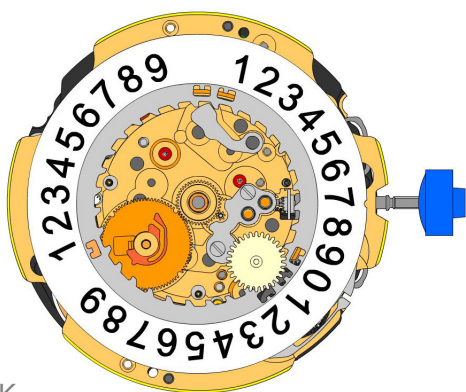
4000.250  
52.  **Screw**





2000.574.G 53.		Main plate
3004.164 54.		Setting wheel
3004.164 55.		Setting wheel
3007.054.CO 56.		Minute wheel
2130.143 57.		Minute train bridge Minute train bridge held by 2 screws 4000.305.
4000.305 58.		Screw

3004.223 59.		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 60.		Tens jumper Parts 2030.017.CO, 3004.223 and 3500.059 must be exchanged together.
2130.142 61.		Tens jumper maintaining plate Tens jumper maintaining plate held by 2 screws 4000.306. Tensioning the spring arm.
4010.306 62.		Screw
3301.242 63.		Hour wheel (Aig.2)
3315.016 64.		Friction spring
3004.224.CO 65.		Date indicator driving wheel
3500.049 66.		Date jumper



K

3504.214.AF.1.A  
67. Units indicator (standard)  
Nick of the indicator at 3 o'clock.



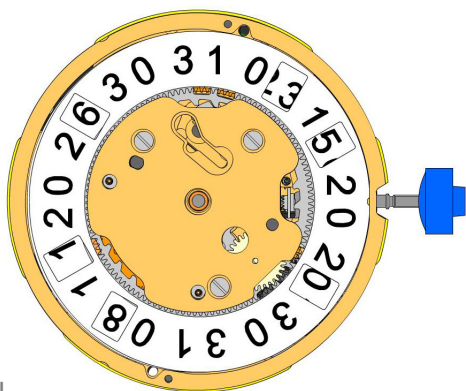
3147.054  
68. Tens intermediate wheel



2130.141  
69. Date indicator maintaining plate  
Date indicator maintaining plate held by 1 screw 4000.250.



3905.070  
70. Date jumper spring  
Insert the date jumper spring in the provided opening.



L

3504.216.AF.1.A  
71. Tens indicator (standard)  
Nick of the indicator at 3 o'clock.



2130.140.G  
72. Date mechanism maintaining plate  
Date mechanism maintaining plate held by 2 screws 4000.250.



4000.250  
73. Screw



3506.072.G  
74. Dial support



9010.000  
75. Moebius 8200



9014.000  
76. Moebius 9014

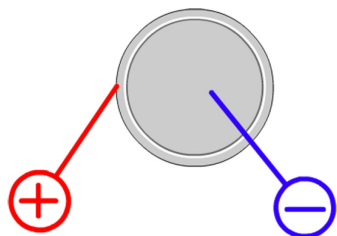


9018.000  
77. Jismaa 124

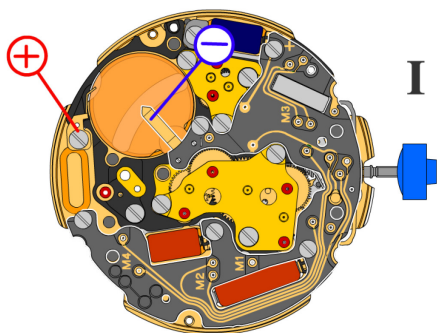


9020.000  
78. Moebius 9020



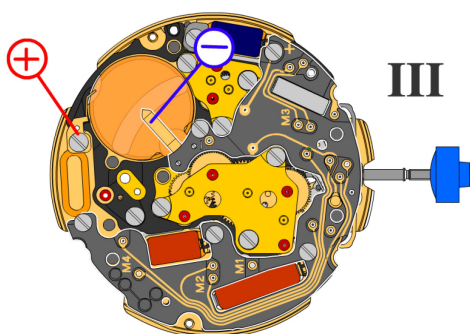


Battery	<b>395</b>
Voltage	<b>1.55 V</b>



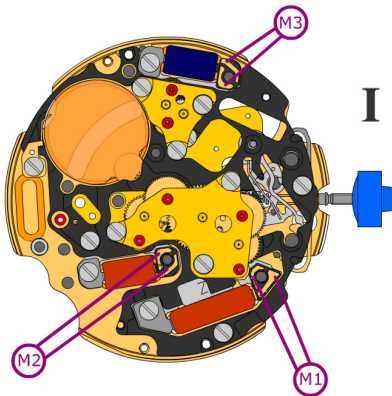
*Setting stem in position I, calendar not in gear,  
60 s measuring interval for rate and consumption:*

Typical consumption	<b>1.32 <math>\mu</math>A</b>
Maximal consumption	<b>1.65 <math>\mu</math>A</b>
Rate	<b>-10s/M. .. +20s/M.</b>
Lower working voltage limit	<b>1.20 V</b>



*Setting stem in position III, 60 s measuring interval:*

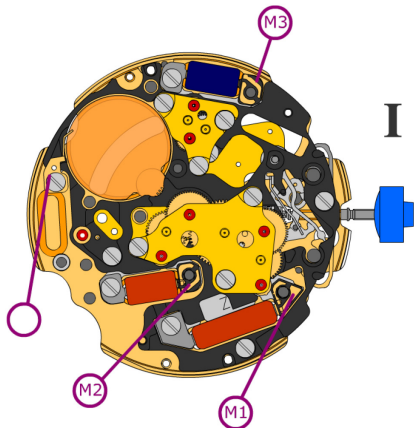
Typical consumption	<b>0.10 <math>\mu</math>A</b>
Maximal consumption	<b>0.30 <math>\mu</math>A</b>



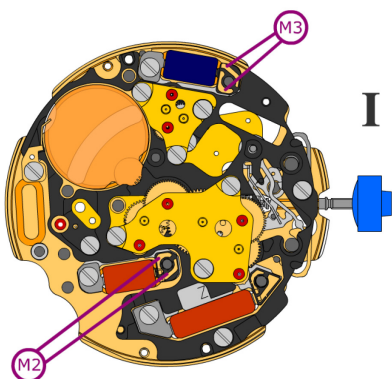
Coil resistance M1 **1.90 k $\Omega$  .. 2.10 k $\Omega$**

Coil resistance M2 **1.68 k $\Omega$  .. 1.88 k $\Omega$**

Coil resistance M3 **1.68 k $\Omega$  .. 1.88 k $\Omega$**

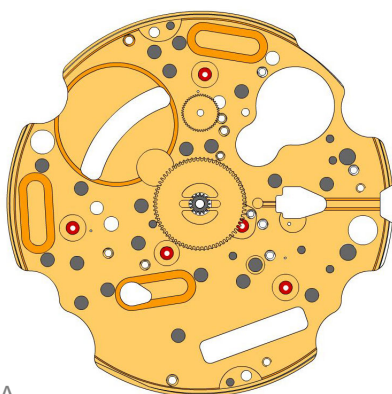


Coil isolation M1/M2/M3  **$\infty$  k $\Omega$**

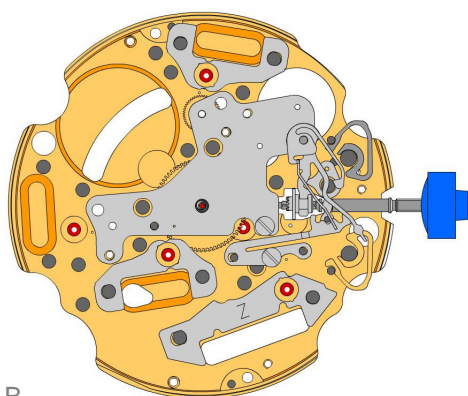


*Signal generator (4.9 ms, 8 Hz):*


















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



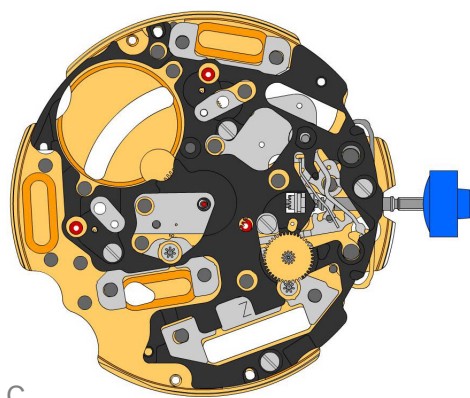
A



B

2000.574.G 1.		Main plate
3305.282.CO 2.		Cannon pinion with driver (Aig.2)
3301.244 3.		Hour wheel (counter 24h)
2030.024.CO 4.		Centre bridge Centre bridge held by 1 screw 4000.250.
4000.250 5.		Screw
3001.055.FI 6.		Sliding pinion
3000.177.CO 7.		Setting stem
3017.049 8.		Setting lever
3905.049 9.		Setting lever jumper (3 positions) Setting lever jumper held by 1 screw 4000.250.
4000.250 10.		Screw
3015.081 11.		Yoke (3 positions)
3905.067 12.		Yoke spring Tensioning the spring arm.
3406.030 13.		Pusher jumper B Put the grey jumper between the two posts on the further side.
3406.038 14.		Pusher jumper A Put the yellow jumper between the two posts on the closer side.
3622.040 15.		Stator Mark [Z] on stator.
3622.039 16.		Stator (counter 6h, 9h, chrono)
3622.039 17.		Stator (counter 6h, 9h, chrono)





C

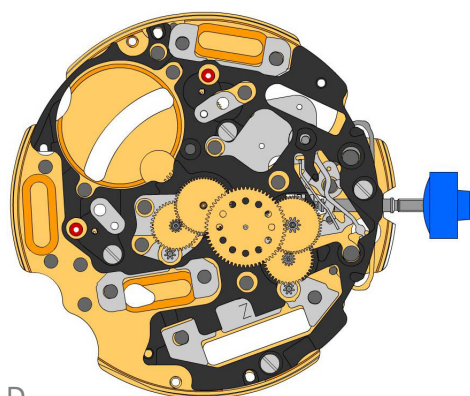
3603.079  
18.  Plastic bracket  
Plastic bracket held by 4 screws 4000.250.

4000.250  
19.  Screw

3715.094.RK  
20.  Rotor

3715.094.RK  
21.  Rotor


3147.046.CO  
22.  Intermediate wheel



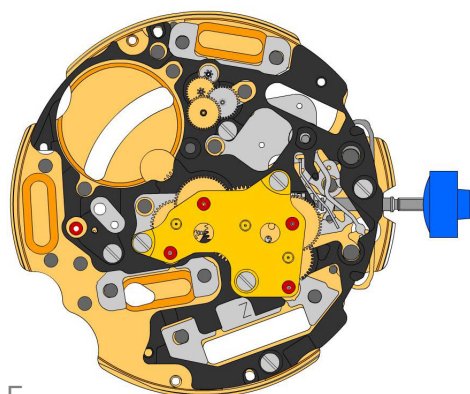
D

3136.148.CO  
23.  Second wheel (short)


3147.047.CO  
24.  Intermediate wheel (chrono)

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

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

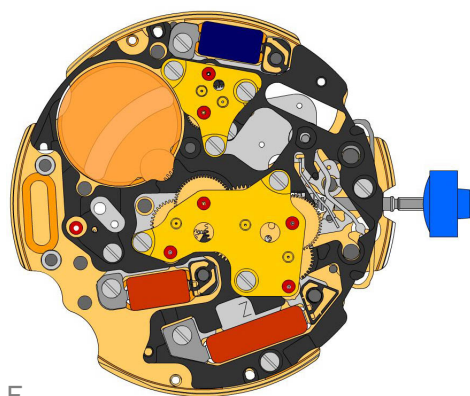
3147.048.CO  
30.  Intermediate wheel (counter)

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

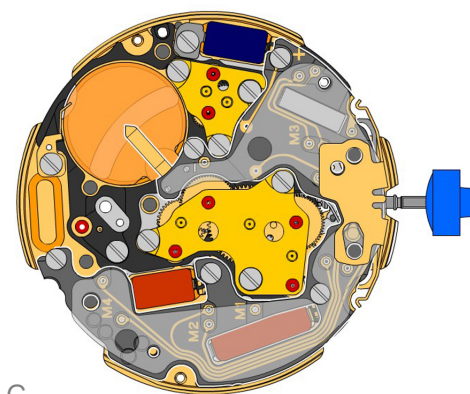
3402.008.CO  
32.  Minute counting wheel (24h)

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

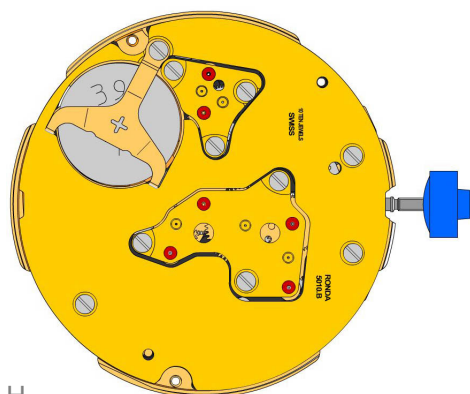
4000.250  
34.  Screw




F





G



H

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

3621.079.RK  
36.  **Coil (centre)**  
Attention: Please hold the coil only on the grey coil core. Coil held by 1 screw 4000.250.

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

4000.250  
38.  **Screw**


3603.034  
39.  **Battery insulator**

3503.071  
40.  **Tube**

3503.054  
41.  **Tube**

3601.118  
42.  **Contact strip**  
Contact strip held by 1 screw 4000.250.

4000.250  
43.  **Screw**

3612.144.5010  
44.  **Electronic module**  
Electronic module held by 5 screws 4000.248. Electronic measurements may be realised now.

4000.248  
45.  **Screw**

3603.069  
46.  **Circuit insulator**

3601.107.G  
47.  **Pusher contact spring**

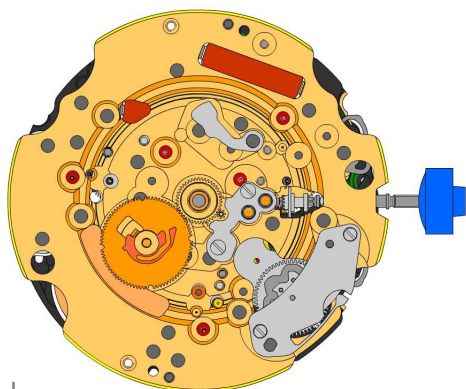
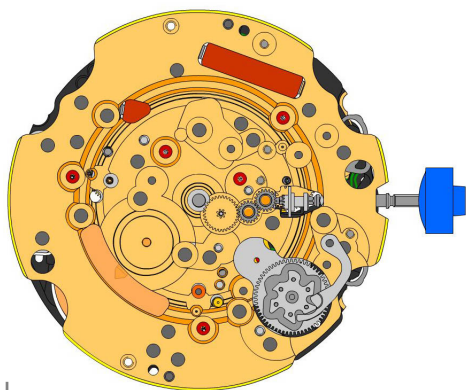
2130.139.G.M01.5010B  
48.  **Electronic module cover**  
Electronic module cover held by 3 screws 4000.250.







4000.250  
49.  **Screw**









3600.010.HGF  
50.  **Battery 395**

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

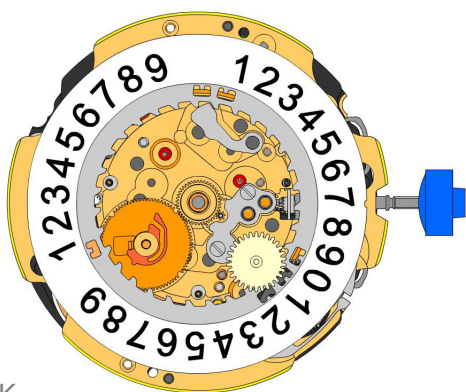
4000.250  
52.  **Screw**



2000.574.G 53.		Main plate
3004.164 54.		Setting wheel
3004.164 55.		Setting wheel
3007.054.CO 56.		Minute wheel
2130.143 57.		Minute train bridge Minute train bridge held by 2 screws 4000.305.
4000.305 58.		Screw

3004.227 59.		Tens indicator driving wheel The short tooth of the tens indicator driving wheel must point to the center of the movement.
3500.075 60.		Tens jumper
2130.142 61.		Tens jumper maintaining plate Tens jumper maintaining plate held by 2 screws 4000.306. Tensioning the spring arm.
4010.306 62.		Screw
3301.242 63.		Hour wheel (Fig.2)
3315.016 64.		Friction spring
3004.224.CO 65.		Date indicator driving wheel
3500.049 66.		Date jumper





K

3504.214.AF.1.A  
67. Units indicator (standard)  
Nick of the indicator at 3 o'clock.



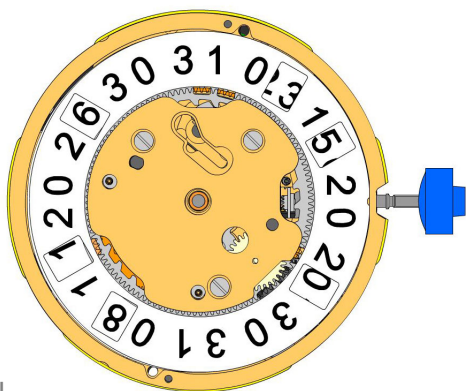
3147.054  
68. Tens intermediate wheel



2130.141  
69. Date indicator maintaining plate  
Date indicator maintaining plate held by 1 screw 4000.250.



3905.070  
70. Date jumper spring  
Insert the date jumper spring in the provided opening.



L

3504.216.AF.1.A  
71. Tens indicator (standard)  
Nick of the indicator at 3 o'clock.



2130.140.G  
72. Date mechanism maintaining plate  
Date mechanism maintaining plate held by 2 screws 4000.250.



4000.250  
73. Screw



3506.072.G  
74. Dial support



9010.000  
75. Moebius 8200



9014.000  
76. Moebius 9014

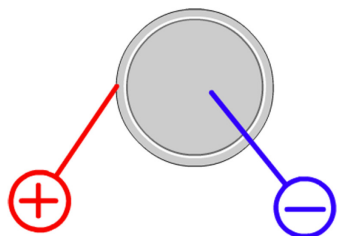


9018.000  
77. Jismaa 124

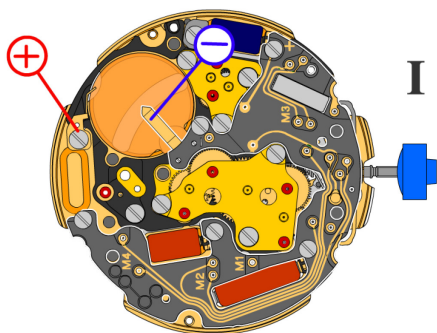


9020.000  
78. Moebius 9020



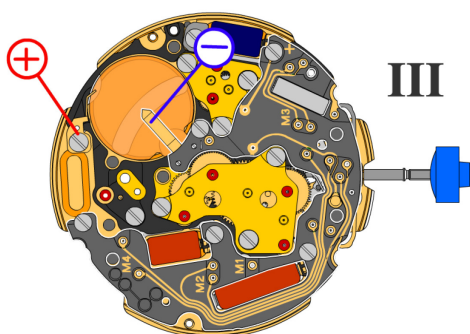


Battery	<b>395</b>
Voltage	<b>1.55 V</b>



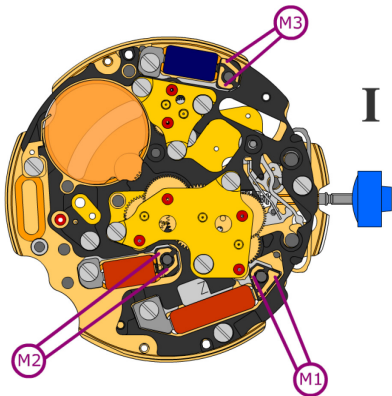
*Setting stem in position I, calendar not in gear,  
60 s measuring interval for rate and consumption:*

Typical consumption	<b>1.32 <math>\mu</math>A</b>
Maximal consumption	<b>1.65 <math>\mu</math>A</b>
Rate	<b>-10s/M. .. +20s/M.</b>
Lower working voltage limit	<b>1.20 V</b>



*Setting stem in position III, 60 s measuring interval:*

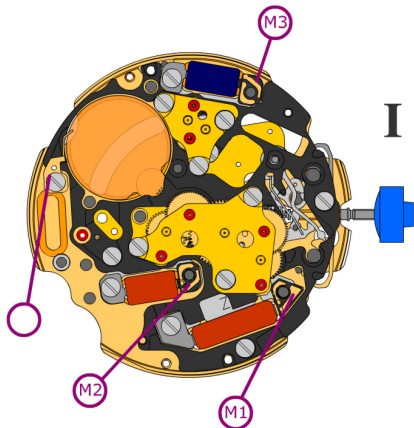
Typical consumption	<b>0.10 <math>\mu</math>A</b>
Maximal consumption	<b>0.30 <math>\mu</math>A</b>



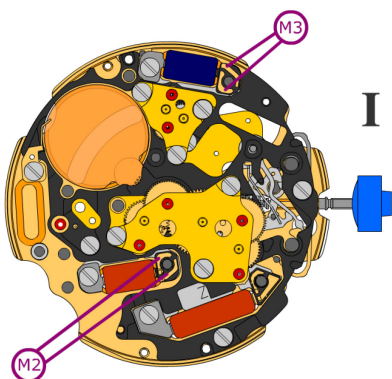
Coil resistance M1 **1.90 k $\Omega$  .. 2.10 k $\Omega$**

Coil resistance M2 **1.68 k $\Omega$  .. 1.88 k $\Omega$**

Coil resistance M3 **1.68 k $\Omega$  .. 1.88 k $\Omega$**



Coil isolation M1/M2/M3  **$\infty$  k $\Omega$**



*Signal generator (4.9 ms, 8 Hz):*

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