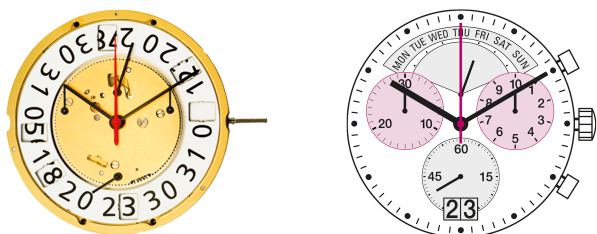


# Quartz Movements

## 计时功能

### 朗达 明星系列

型号 8040.N - 15'''



## 产品规格

指针式石英机芯

系列

明星系列

型号

8040.N

尺寸

15'''

版本 瑞士制造

13 钻石 / 金色

电池寿命

48 月

标准针高

1

## 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分钟计时小眼
- 中心大秒计时（1/1秒）
- 10小时计时小眼
- 1/10 秒计时直至30分钟
- 积累及分段计时
- 计时
- 回拨式星期指针
- 大日历
- 小秒针

## Quartz Movements

### 计时功能

#### 朗达 明星系列

型号 8040.N - 15'''

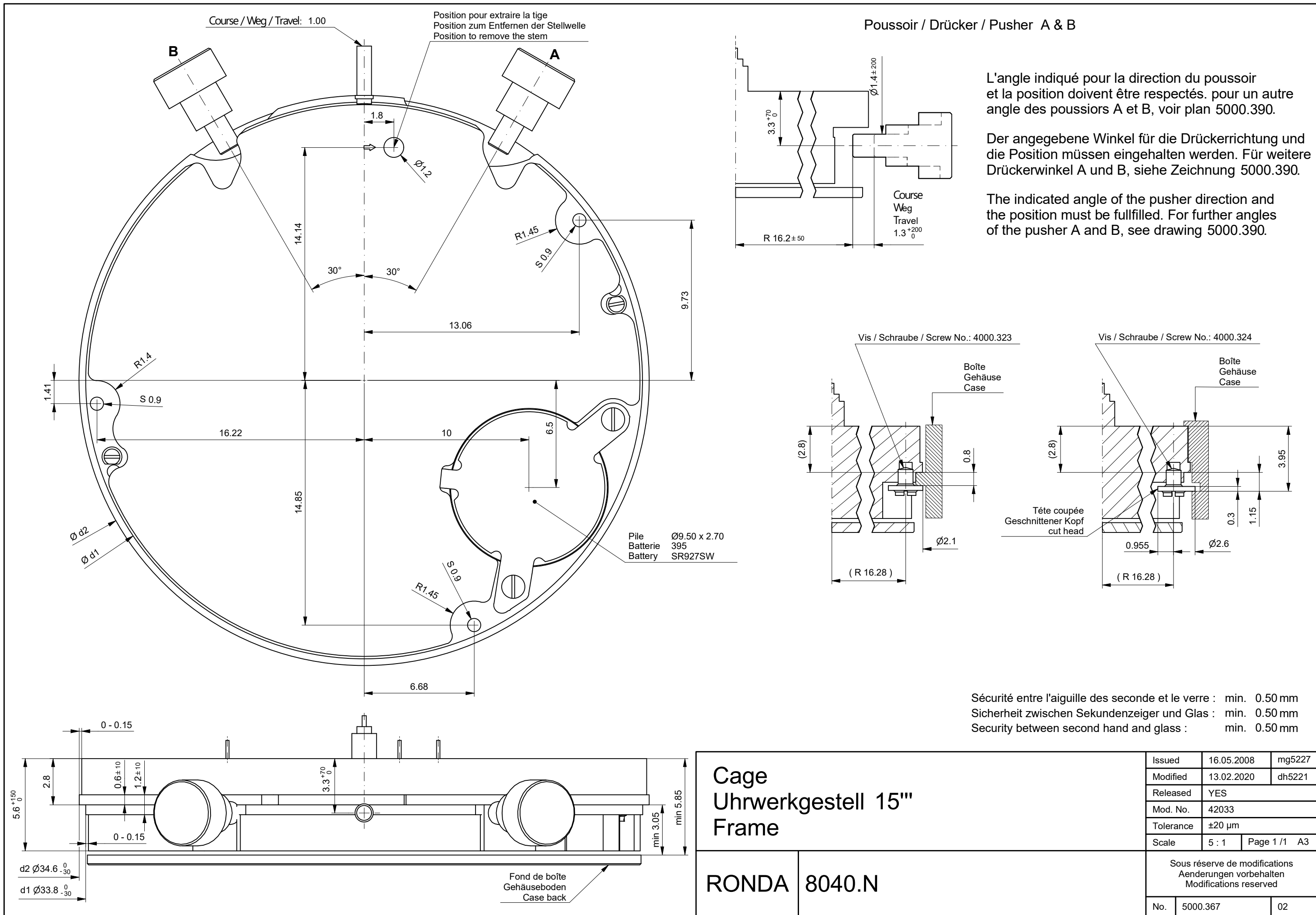
#### 技术规格

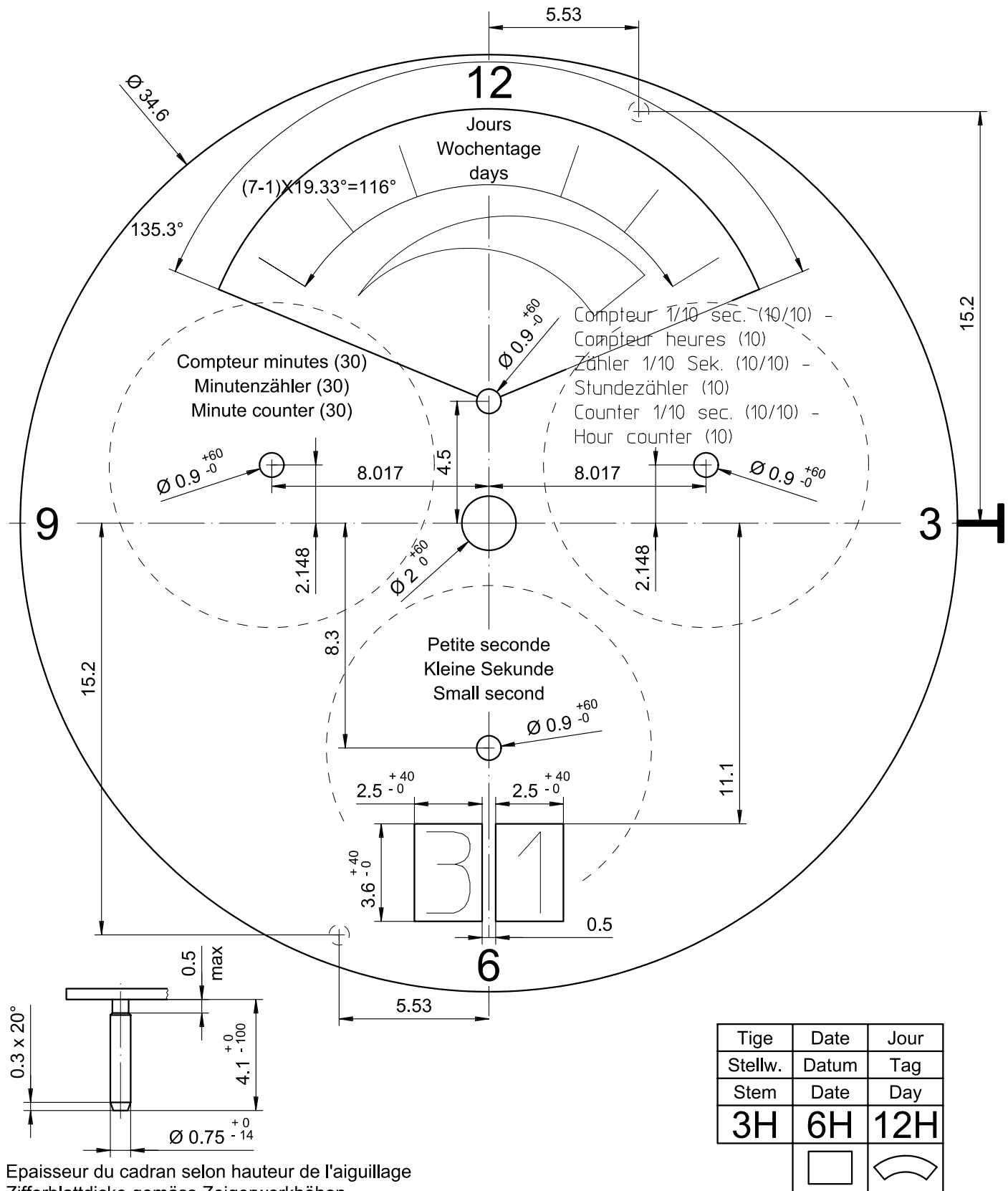
|                   |              |
|-------------------|--------------|
| 机芯直径              | 34.60 mm     |
| 内罩座位直径            | 33.80 mm     |
| 机芯厚度              | 5.60 mm      |
| 电池以上厚度            | 5.60 mm      |
| 机芯座位              | 0.60 mm      |
| 把中                | 3.30 mm      |
| 把心行程              | 1.00 mm      |
| 把心螺纹直径            | 0.90 mm      |
| 秒针运行扭力 - 一般情况下    | 6 $\mu$ Nm   |
| 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       | 48 月                    |
| 电压         | 1.5 V                   |
| 电耗 - 一般情况下 | 1.48 $\mu$ A (日历不在跳动当中) |
| 电耗 - 上限    | 2 $\mu$ A (日历不在跳动当中)    |





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 type="checkbox"/> | <input type="checkbox"/> |

Cadran  
Zifferblatt  
Dial

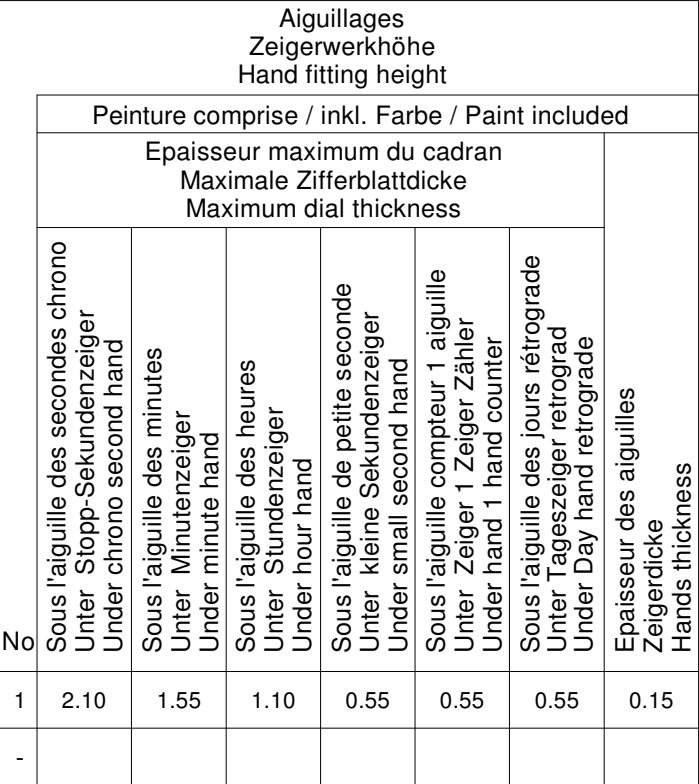
15"

|  |                        |    |
|--|------------------------|----|
| Issued   | 16 Mai 2008            | mg |
| Modified   | 12 Feb 2010<br>ÄA 5198 | fl |
| Released   | YES                    |    |
| Tolerance  | +/- 20 µm              |    |
| Scale  | 5 : 1 (A4V)            |    |
| Sous réserve de modifications<br>Äenderungen vorbehalten<br>Modifications reserved |                        |    |
| No.  | 5010.804               | 00 |

RONDA

8040.N



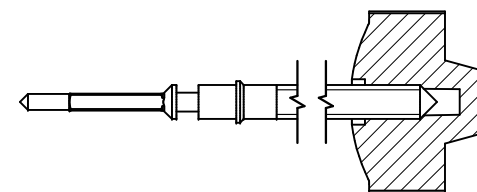


|   |        |   |          |                         |    |
|---|--------|---|----------|-------------------------|----|
| Aiguillages<br>Zeigerwerkhöhen 15 '''<br>Hand fitting heights |        | Issued  |          | 02 Jun 2008             | mg |
|   |        | Modified  |          | 15 Okt 2014<br>ÄA 13275 | dh |
|   |        | Released  |          | Yes                     |    |
|   |        | Tolerance   |          | µm                      |    |
|   |        | Scale   |          | 20 : 1 (A3H)            |    |
| RONDA   | 8040.N | Sous réserve de modifications<br>Änderungen vorbehalten<br>Modifications reserved |          |                         |    |
|   |        | No.   | 3316.122 |                         | 02 |



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

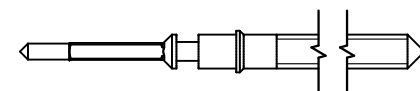
| No. d'article<br>Artikelnummer<br>Part number | L     | L1    | L2    | L3    | S    | D    |
|---|-------|-------|-------|-------|------|------|
| 3000.203.CO                                   | 21.30 | 11.67 | 28.57 | 11.12 | 0.90 | 1.10 |



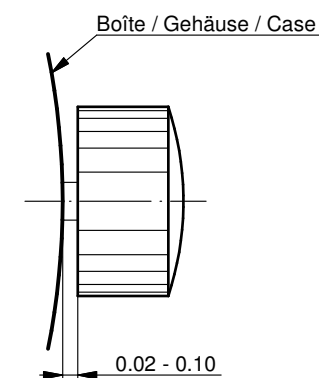
|  |                                       |
|--|---------------------------------------|
| Couleur de la couronne<br>Kronenfarbe<br>Crown color | gris foncé<br>dunkelgrau<br>dark grey |
| Code   | UN 7005                               |

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

| No. d'article<br>Artikelnummer<br>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

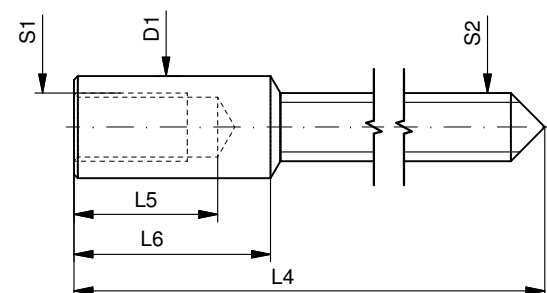


Couronne vissée  
Geschraubte Krone  
Screwed crown

|  |      |
|--|------|
| Force ⇐ min.<br>Kraft ⇐ min.<br>Force ⇐ min. | 10 N |
| Force ⇐ max.<br>Kraft ⇐ max.<br>Force ⇐ max. | 15 N |

Rallonge de tige / Stellwelle Verlängerung / Stem extension

| No. d'article<br>Artikelnummer<br>Part number | L4    | L5<br>(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<br>ÄA 34582 | mg5224 |
| Released   | YES                     |        |
| Tolerance  | ---                     |        |
| Scale  | 10:1 (A3)               |        |
| Sous réserve de modifications<br>Äenderungen vorbehalten<br>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

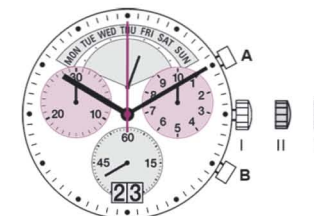
## Date switching duration

*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

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

8040.N

分针  
1/10 秒计  
(30分钟后变时计)  
回弹式星期指针  
时针  
分钟计  
中心秒计  
日期  
秒针

按钮 A & B

01 把的

显示项目

8040.B

分针  
1/10 秒计  
(30分钟后变时计)  
日期  
时针  
分钟计  
中心秒计  
秒针

按钮 A & B

把的

### 设定时间

02

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

### 设定日期 (快速模式)

03

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:  
8 PM 至 12 AM 为日历转换时段。若在这时段内快速设定日期, 必须比正确日期多转一天, 因为在这情况下午夜时日历不会自动转换。  
过快转换日历(大日历)可能令日期显示错误转换日期由 01 至 31 (把的位置 II) 可使日期再次同步化

### 设定日期 / 星期 (8040.N) / 时间

04

例子:  
- 腕表上的日期/时间 17 / 01:25 / MON  
- 现在的日期/时间 23 / 20:35 / SAT

1 把的拉至位置 III (腕表停止运行)。

2 转动把的至昨日星期日 FRI

3 把的拉至位置 II

4 转动把的至昨日日期 22

5\* 把的拉至位置 III (腕表停止运行)。

6 继续转动把的至正确日期 23 及星期日 SAT

7\*\* 继续转动把的至正确时间 8:35 PM

8 把把的推回位置 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

### 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 分钟 / 38 秒 / 7/10 秒

3 返回零位置:  
按下按钮 B  
(计时指针会还原到零位置)

### 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 1 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, ...)

### 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 1 后, 可再按下按钮 B 继续计算分段时间 (显示分段时间 / 追时, ...)

### 调较计时指针到零位置

07

例子:  
当有时计指针不在零位置时, 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 同时持续按下按钮 A 及 B 最少 2 秒  
(中心秒计会转动 360° → 修正模式启动)。

### 调较中心秒针

单步前进 1 x 短按 A

连续前进 长按 A

调较下一支指针 B

调较 1/10 秒计 (3 时位置)

单步前进 1 x 短按 A

连续前进 长按 A

调较下一支指针 B

调较分钟计 (9 时位置)

单步前进 1 x 短按 A

连续前进 长按 A

推把的回位置 I  
结束调较计时指针 (能在任何时候执行)。

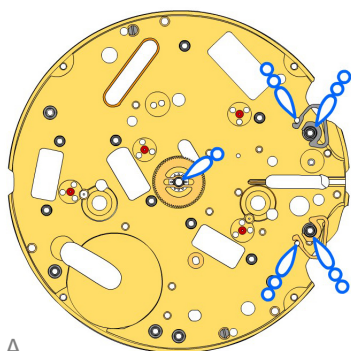
### 08

CE

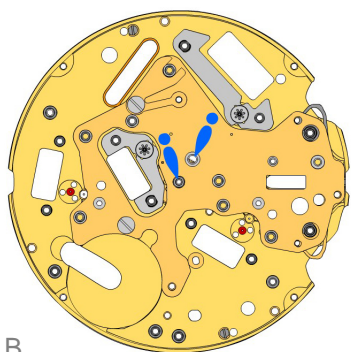
电池种类: 395 (直径 9.5mm x 2.6mm / SR 927 SW)

误差规格: +20 / -10 秒(每月)

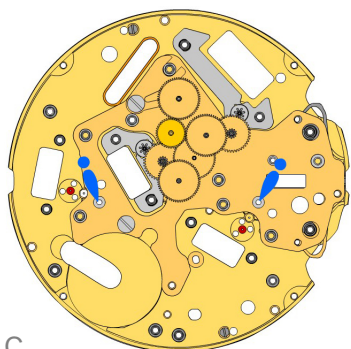








A


















B



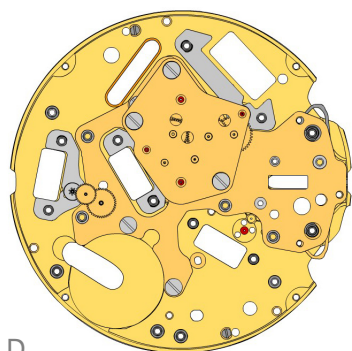
C

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

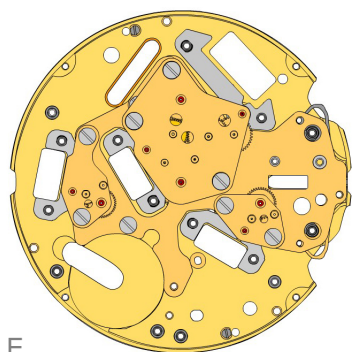
|                    |   |  |
|--------------------|---|--|
| 2030.029<br>5.     |    | Center bridge<br>Center bride held by 2 screws 4000.250.     |
| 4000.250<br>6.     |    | Screw  |
| 3406.040<br>7.     |    | Friction spring<br>Friction spring held by 1 screw 4000.250. |
| 4000.250<br>8.     |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

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

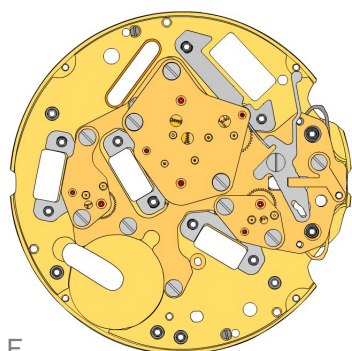





D




E



F



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)**



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].

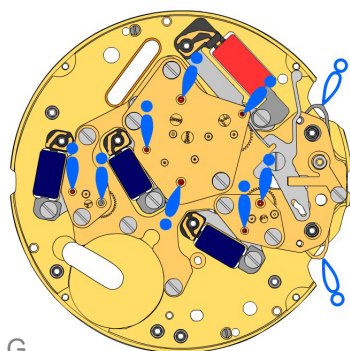
4000.250  
33.   **Screw**

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

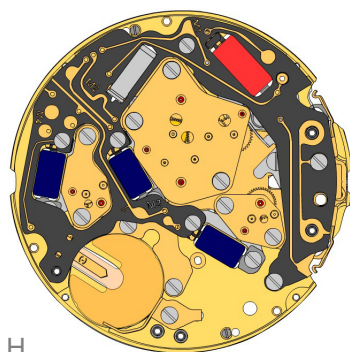
4000.249  
35.   **Screw**

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

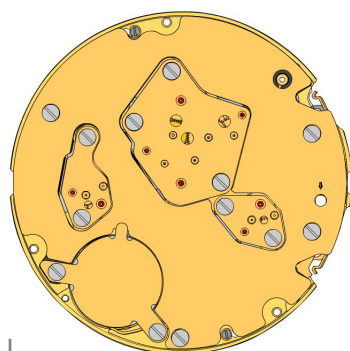
4000.248  
37.   **Screw**








G
















H

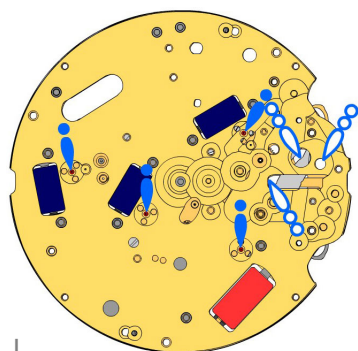


I

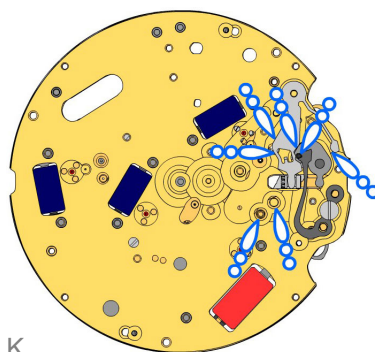
|                    |   |   |
|--------------------|---|---|
| 3621.072.RK<br>38. |  | Coil centre<br>Attention: Please hold the coil only on the grey coil core.  |
| 3621.055.RK<br>39. |  | Coil counter<br>Attention: Please hold the coil only on the grey coil core. |
| 3621.055.RK<br>40. |  | Coil counter<br>Attention: Please hold the coil only on the grey coil core. |
| 3621.055.RK<br>41. |  | Coil counter<br>Attention: Please hold the coil only on the grey coil core. |
| 4000.250<br>42.    |  | Screw   |

|                   |   |  |
|-------------------|---|--|
| 3603.089<br>43.   |    | Battery insulator  |
| 3601.134<br>44.   |    | Pusher contact spring  |
| 3612.218<br>45.   |   | Electronic module<br>Electronic module held by 6 screws.           |
| 4000.248<br>46.   |  | Screw<br>4 screws 4000.248 for pressing the module on the coils.   |
| 4000.250<br>47.   |  | Screw<br>2 screws 4000.248 for pressing the module on the 2 posts. |
| 3601.132.G<br>48. |  | Lateral bridle<br>Lateral bridle held by 1 screw 4000.250.         |
| 4000.250<br>49.   |  | Screw  |

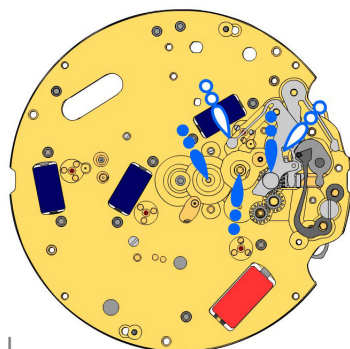
|                             |   |   |
|-----------------------------|---|---|
| 3603.090<br>50.             |  | Circuit insulator   |
| 2130.206.G.M01.8040N<br>51. |  | Electronic module cover<br>Electronic module cover held by 4 screws 4000.250. |
| 4000.250<br>52.             |  | Screw   |
| 3600.010.HGF<br>53.         |  | Battery 395   |
| 3601.133.G<br>54.           |  | Bridle +<br>Bridle + held by 2 screws 4000.250.                               |
| 4000.250<br>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.



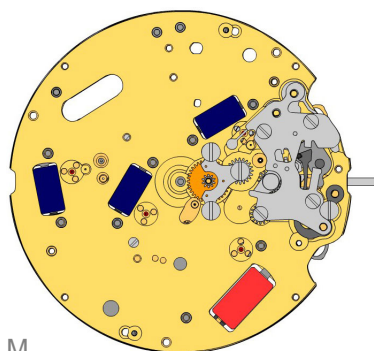
Corrector setting wheel

3015.087.CO  
64.

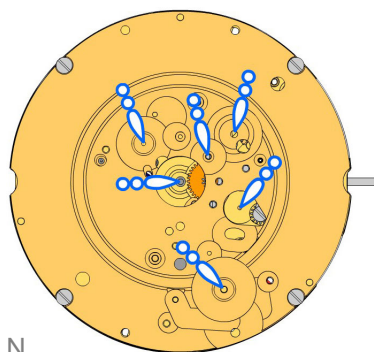


Setting wheel yoke

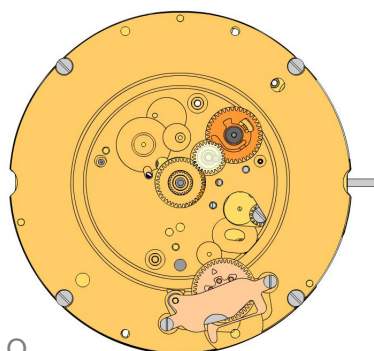






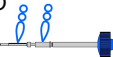













M

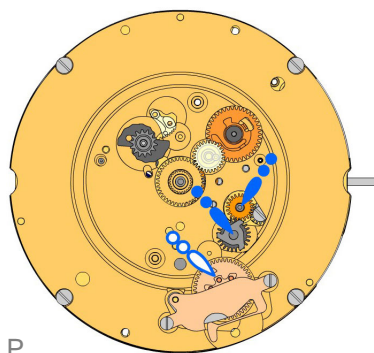


N

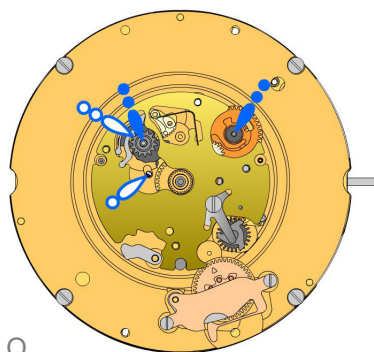


O

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



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.

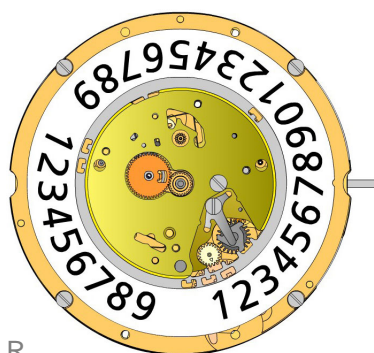


**Date jumper**

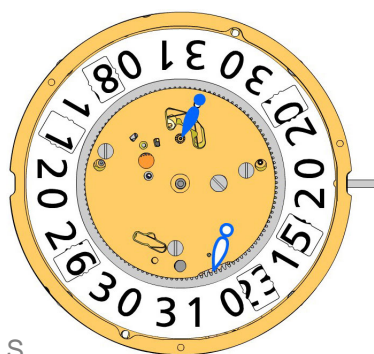
3500.069  
91.






















**Day jumper**  
Tensioning the spring arm.

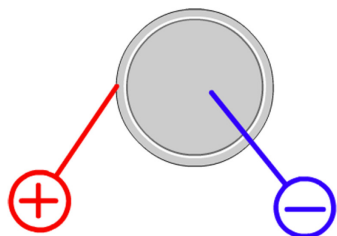


R

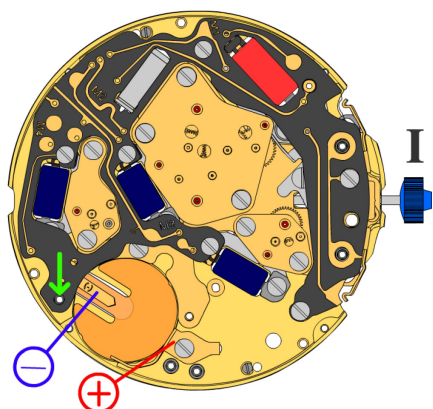


S

|                         |   |  |
|-------------------------|---|--|
| 3504.234.AD.1.A<br>92.  |    | <b>Units indicator (standard)</b><br>Nick of the indicator at 3 o'clock.   |
| 2130.192<br>93.         |    | <b>Date indicator maintaining plate</b><br>Date indicator maintaining plate held by 1 screw 4000.250.  |
| 4000.250<br>94.         |    | <b>Screw</b>   |
| 3905.064<br>95.         |    | <b>Date jumper spring</b><br>Insert the date jumper spring in the previous opening.  |
| 3907.047<br>96.         |    | <b>Day finger flange</b><br>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<br>97.         |    | <b>Day finger</b><br>Position the end of the teeth against the day came pinion while turning softly in counterclockwise direction.   |
| 3004.212<br>98.         |    | <b>Days driving wheel</b><br>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<br>99.      |    | <b>Day indicator pinion</b>  |
| 3147.062<br>100.        |   | <b>Tens intermediate wheel</b><br>Arrow positioning radially outwards.   |
| 3504.231.AD.1.A<br>101. |  | <b>Tens indicator (standard)</b><br>Nick of the indicator at 3 o'clock.  |
| 3315.003<br>102.        |  | <b>Friction spring</b>   |
| 2130.193.G<br>103.      |  | <b>Date mechanism maintaining plate</b><br>Date mechanism maintaining plate held by 3 screws 4000.320.   |
| 4000.320<br>104.        |  | <b>Screw</b>   |
| 3506.077.G<br>105.      |  | <b>Intermediate Dial support</b><br>Polished version first.  |
| 3506.076.G<br>106.      |  | <b>Dial support</b>  |
| 8200<br>107.            |  | <b>Moebius 8200</b>  |
| 9014<br>108.            |  | <b>Moebius 9014</b>  |
| 124<br>109.             |  | <b>Jismaa 124</b>  |
| 9020<br>110.            |  | <b>Moebius 9020</b>  |

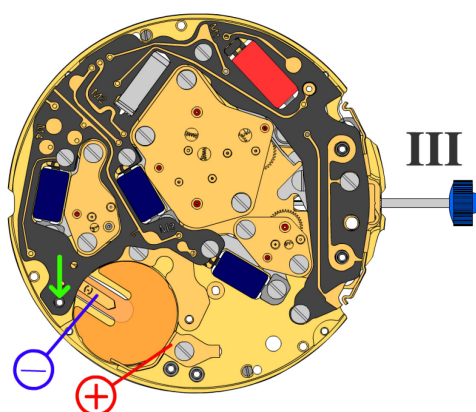


|         |               |
|---------|---------------|
| Battery | <b>395</b>    |
| Voltage | <b>1.55 V</b> |



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

|                             |                               |
|-----------------------------|-------------------------------|
| Typical consumption         | <b>1.48 <math>\mu</math>A</b> |
| Maximal consumption         | <b>2.00 <math>\mu</math>A</b> |
| Rate                        | <b>-10s/M. .. +20s/M.</b>     |
| Lower working voltage limit | <b>1.20 V</b>                 |

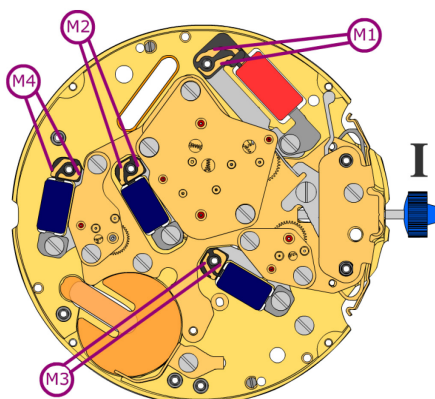


*Setting stem in position III, 60 s measuring interval:*

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



*Hold down the electrical module to allow the electronic flow.*

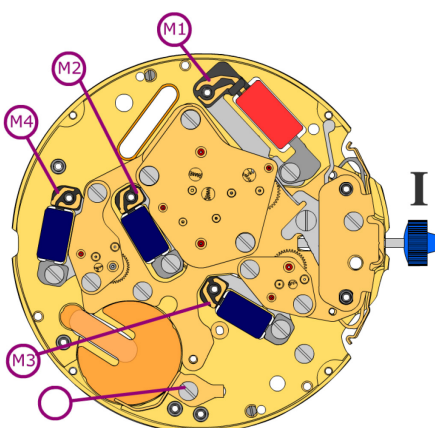


Coil resistance M1 **1.50 k $\Omega$  .. 1.70 k $\Omega$**

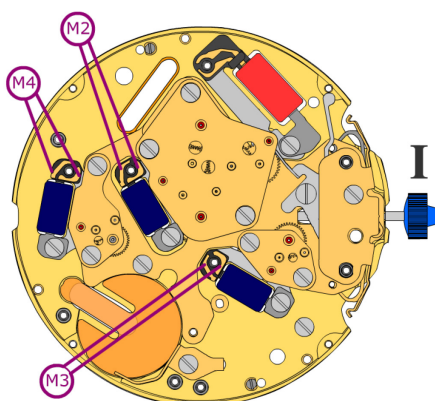
Coil resistance M2 **1.68 k $\Omega$  .. 1.88 k $\Omega$**

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

Coil resistance M4 **1.68 k $\Omega$  .. 1.88 k $\Omega$**

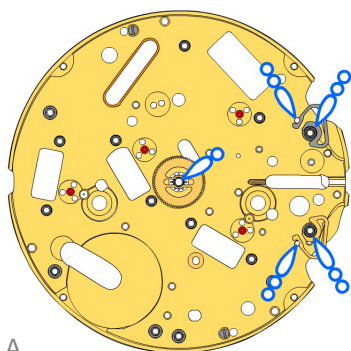


Coil isolation M1/M2/M3/M4  **$\infty$  k $\Omega$**

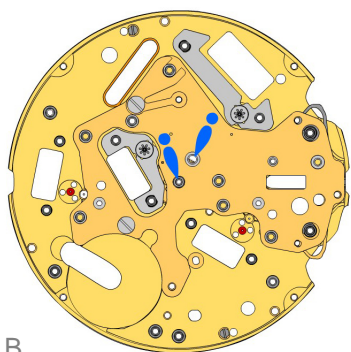


*Signal generator (4.9 ms, 8 Hz):*

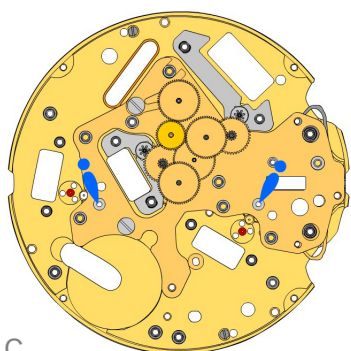
Lower working voltage limit  
M2/M3/M4 **1.20 V**







A


















B



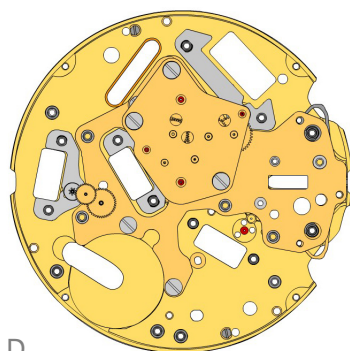
C

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

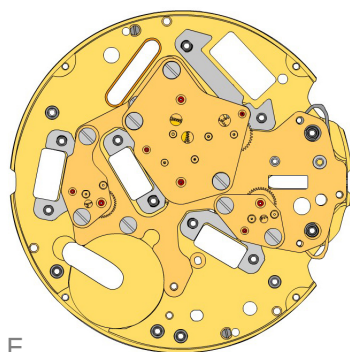
|                    |   |  |
|--------------------|---|--|
| 2030.029<br>5.     |    | Center bridge<br>Center bride held by 2 screws 4000.250.     |
| 4000.250<br>6.     |    | Screw  |
| 3406.040<br>7.     |    | Friction spring<br>Friction spring held by 1 screw 4000.250. |
| 4000.250<br>8.     |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

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

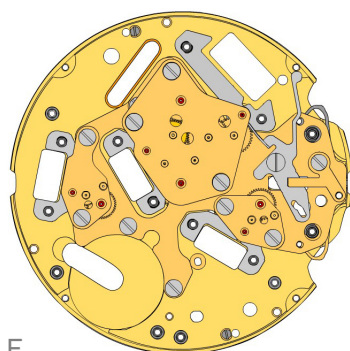




D



E



F

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)**

2020.191.G  
26.



**Counter train wheel Bridge**  
Train wheel bridge held by 2 screws 4000.250. 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 4000.250. 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.

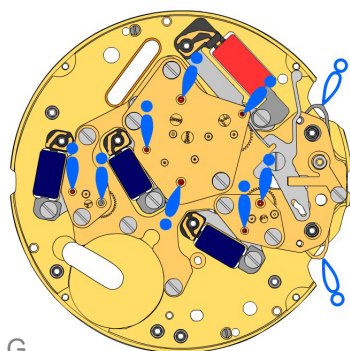


**Maintaining plate**  
Maintaining plate held by 1 screw 4000.248.


4000.248  
37.





**Screw**




G

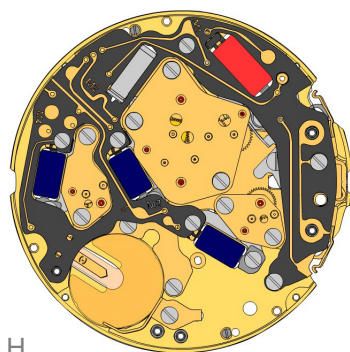
3621.072.RK  
38.  **Coil centre**  
Attention: Please hold the coil only on the grey coil core.

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**





H


3603.089  
43.  **Battery insulator**

3601.134  
44.  **Pusher contact spring**

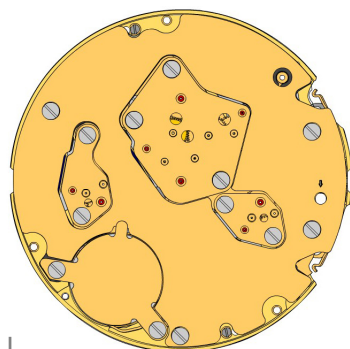
3612.218  
45.  **Electronic module**  
Electronic module held by 6 screws. (Electronic measurements may be realised now.)

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**




I

3603.090  
50.  **Circuit insulator**

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

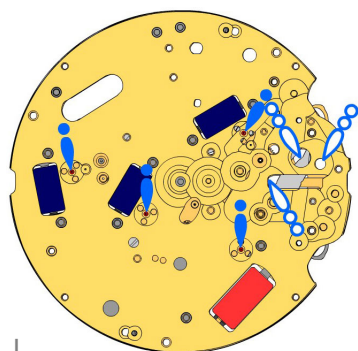
4000.250  
52.  **Screw**

3600.010.HGF  
53.  **Battery 395**

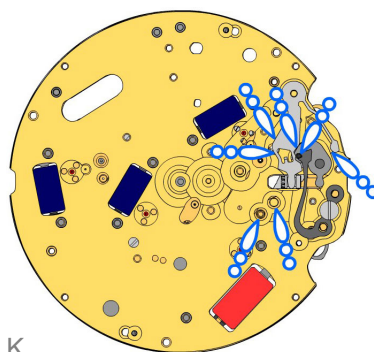
3601.133.G  
54.  **Bridle +**  
Bridle + held by 2 screws 4000.250.

4000.250  
55.  **Screw**

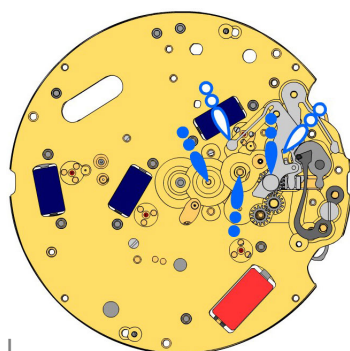




J



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.

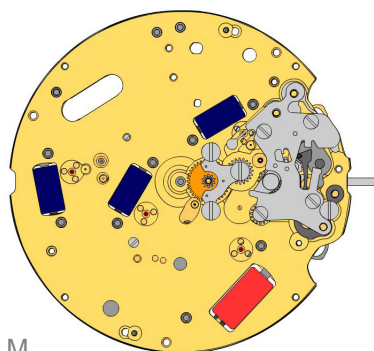


Corrector setting wheel

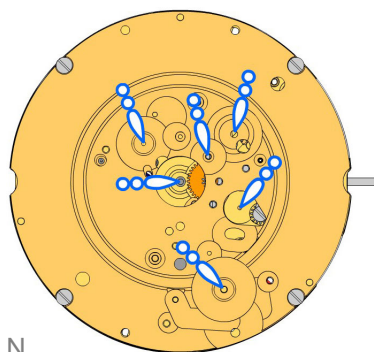
3015.087.CO  
64.



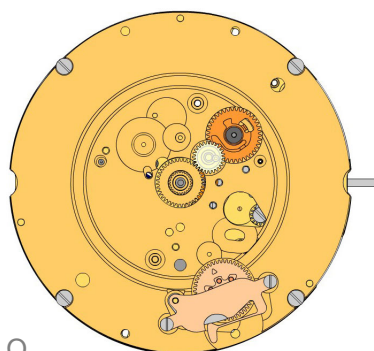
Setting wheel yoke





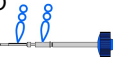













M

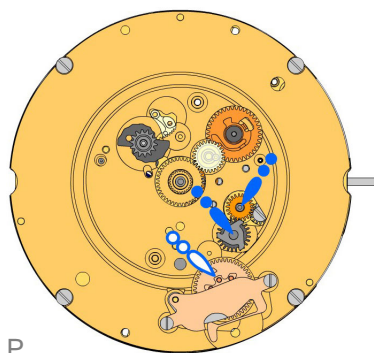


N

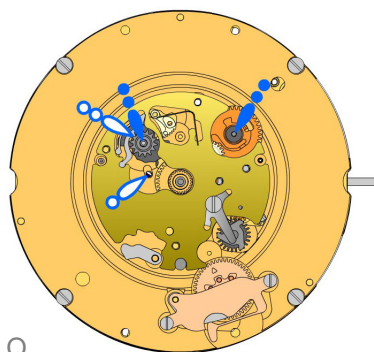


O












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

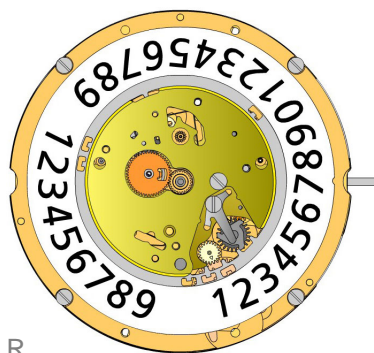


P

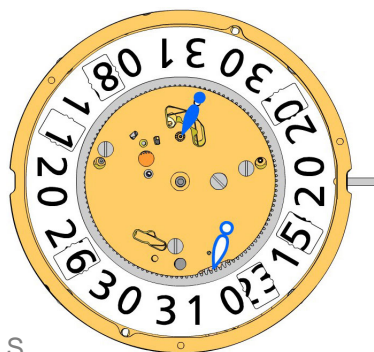


Q










|                    |   |  |
|--------------------|---|--|
| 3404.006.CO<br>81. |    | Day cam<br>Place parts as shown on graphics.                             |
| 3406.032<br>82.    |    | Day rack   |
| 3406.031<br>83.    |    | Day rack lever   |
| 3147.066.CO<br>84. |    | Date corrector setting wheel   |
| 3507.059.CO<br>85. |    | Date corrector wheel   |
| 2130.191<br>86.    |    | Date indicator plate   |
| 3905.068<br>87.    |    | Date corrector spring<br>Date corrector spring held by 1 screw 4000.244. |
| 4000.244<br>88.    |   | Screw  |
| 3905.066<br>89.    |  | Day rack lever spring<br>Tensioning the spring arm.                      |
| 3500.068<br>90.    |  | Date jumper  |
| 3500.069<br>91.    |  | Day jumper<br>Tensioning the spring arm.                                 |












R

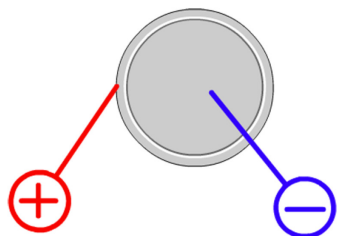


S

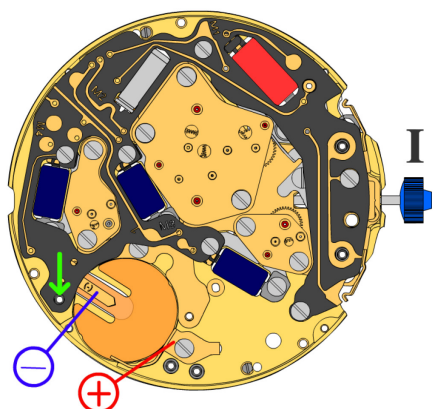
|                         |  |   |
|-------------------------|--|---|
| 3504.234.AD.1.A<br>92.  |   | <b>Units indicator (standard)</b><br>Nick of the indicator at 3 o'clock.  |
| 2130.192<br>93.         |   | <b>Date indicator maintaining plate</b><br>Date indicator maintaining plate held by 1 screw.  |
| 4000.250<br>94.         |   | <b>Screw</b>  |
| 3905.064<br>95.         |   | <b>Date jumper spring</b><br>Insert the date jumper spring in the previous opening.   |
| 3004.244<br>96.         |   | <b>Day finger</b><br>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<br>97.         |   | <b>Days driving wheel</b><br>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<br>98.      |   | <b>Day indicator pinion</b>   |
| 3147.062<br>99.         |   | <b>Tens intermediate wheel</b><br>Arrow positioning radially outwards.  |
| 3504.231.AD.1.A<br>100. |  | <b>Tens indicator (standard)</b><br>Nick of the indicator at 3 o'clock.   |

|                    |   |  |
|--------------------|---|--|
| 3315.003<br>101.   |  | <b>Friction spring</b>   |
| 2130.193.G<br>102. |  | <b>Date mechanism maintaining plate</b><br>Date mechanism maintaining plate held by 3 screws 4000.320. |
| 4000.320<br>103.   |  | <b>Screw</b>   |
| 3506.077.G<br>104. |  | <b>Intermediate Dial support</b><br>Polished version first.  |
| 3506.076.G<br>105. |  | <b>Dial support</b>  |

|              |   |                     |
|--------------|---|---------------------|
| 8200<br>106. |  | <b>Moebius 8200</b> |
| 9014<br>107. |  | <b>Moebius 9014</b> |
| 124<br>108.  |  | <b>Jismaa 124</b>   |
| 9020<br>109. |  | <b>Moebius 9020</b> |

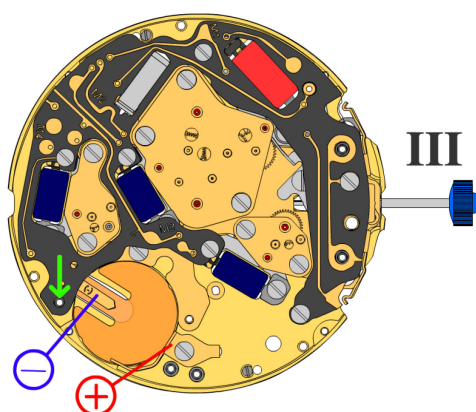


|         |               |
|---------|---------------|
| Battery | <b>395</b>    |
| Voltage | <b>1.55 V</b> |



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

|                             |                               |
|-----------------------------|-------------------------------|
| Typical consumption         | <b>1.48 <math>\mu</math>A</b> |
| Maximal consumption         | <b>2.00 <math>\mu</math>A</b> |
| Rate                        | <b>-10s/M. .. +20s/M.</b>     |
| Lower working voltage limit | <b>1.20 V</b>                 |

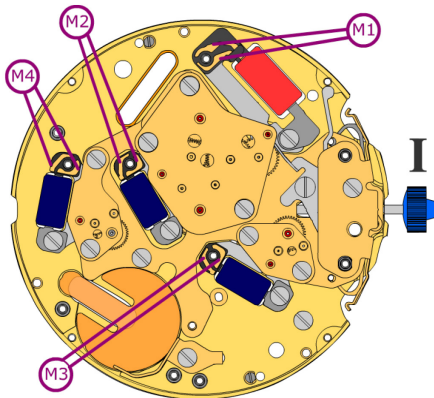


*Setting stem in position III, 60 s measuring interval:*

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



*Hold down the electrical module to allow the electronic flow.*

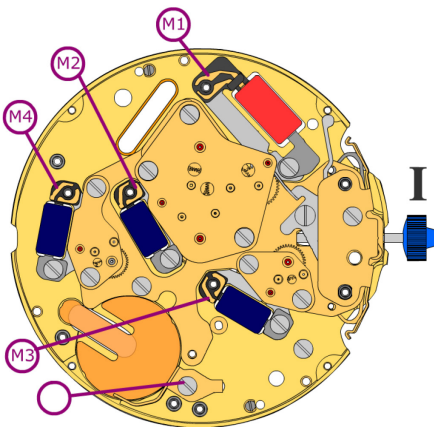


Coil resistance M1 **1.50 k $\Omega$  .. 1.70 k $\Omega$**

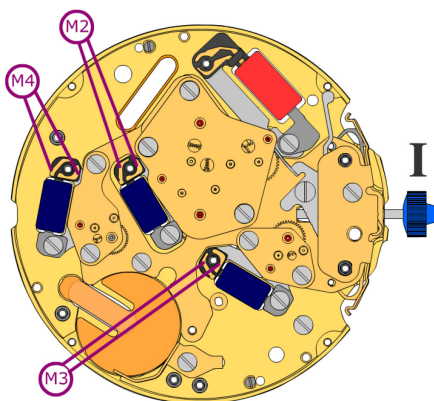
Coil resistance M2 **1.68 k $\Omega$  .. 1.88 k $\Omega$**

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

Coil resistance M4 **1.68 k $\Omega$  .. 1.88 k $\Omega$**



Coil isolation M1/M2/M3/M4  **$\infty$  k $\Omega$**



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

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