



UNIQUE
BY SWISS DESIGN

#rondamovement

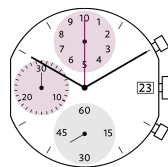
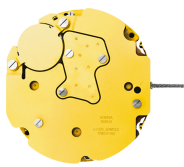
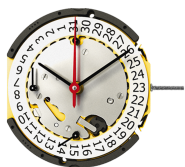
 **RONDA**

Quartz Movements

计时功能

朗达 明星系列

型号 3540.D - 10□x 11□'



产品规格

指针式石英机芯

系列

明星系列

型号

3540.D

尺寸

10□x 11□'

版本 瑞士制造

5 钻石 / 金色

版本 瑞士零件 远东组装

5 钻石 / 银色

电池寿命

54 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

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
- 日历
- 小秒针

Quartz Movements

计时功能

朗达 明星系列

型号 3540.D - 10□x 11□'

技术规格

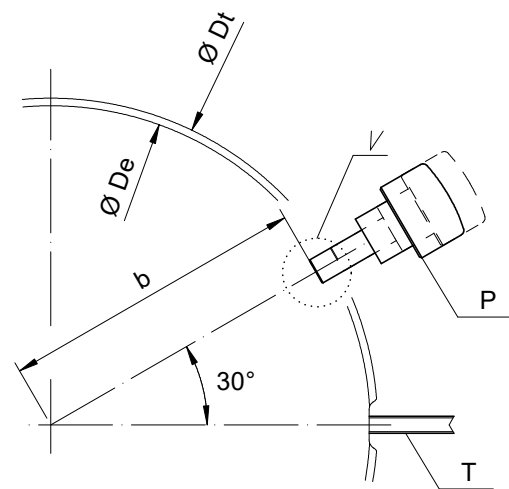
机芯直径	26.20 mm
内罩座位直径	23.90 mm
机芯厚度	4.90 mm
电池以上厚度	4.90 mm
机芯座位	0.80 mm
把中	1.70 mm
把心行程	1.00 mm
把心螺纹直径	0.90 mm
秒针运行扭力 - 一般情况下	6 μ Nm
分针运行扭力 - 一般情况下	300 μ Nm
计时大秒针运行扭力 - 一般情况下	6 μ Nm
运作温度	0 - 50 ° C
误差率	-10/+20 秒/月
防磁度	18.8 Oe
防震度	NIHS 91-10



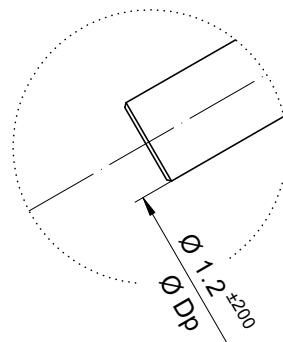
电池规格

电池类型	型号 384
电池寿命	54 月
电压	1.5 V
电耗 - 一般情况下	1.14 μ A (日历不在跳动当中)
电耗 - 上限	1.65 μ A (日历不在跳动当中)

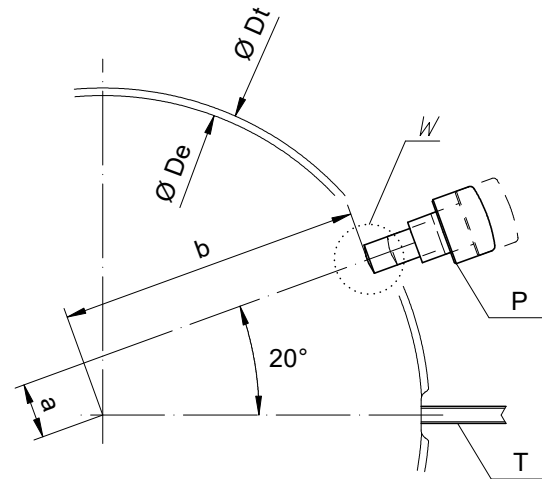
Angle Winkel Angle	30°	
Ø Dp	b	
1.00	11.95	
1.10	11.95	
1.20	11.95	
1.30	11.95	
1.40	11.95	



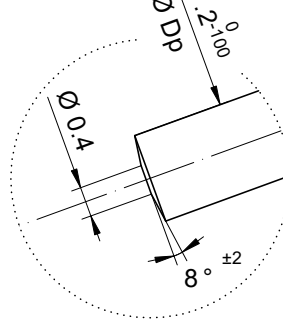
Detail V



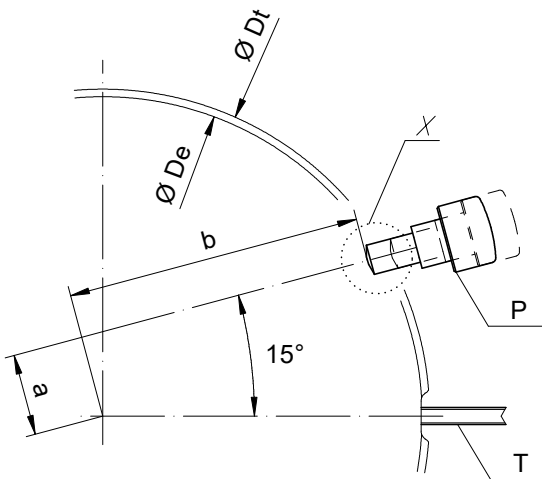
Angle Winkel Angle	20°	
Ø Dp	a	b
1.10	1.94	11.84
1.20	1.99	11.84



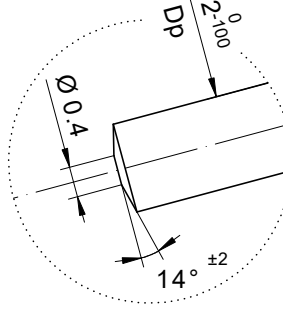
Detail W



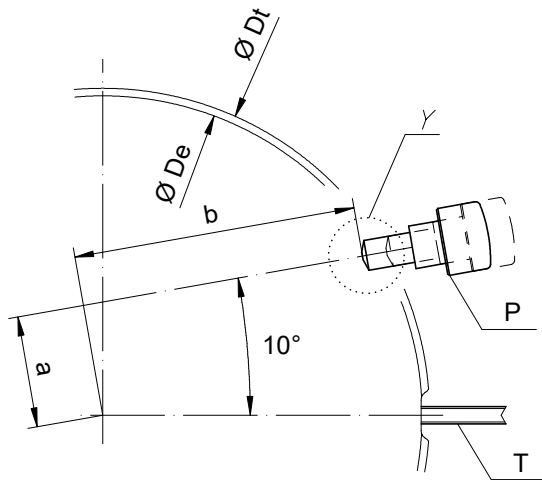
Angle Winkel Angle	15°	
Ø Dp	a	b
1.10	2.97	11.64
1.20	3.02	11.63



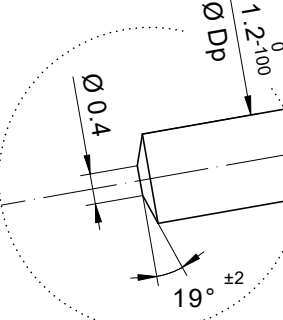
Detail X



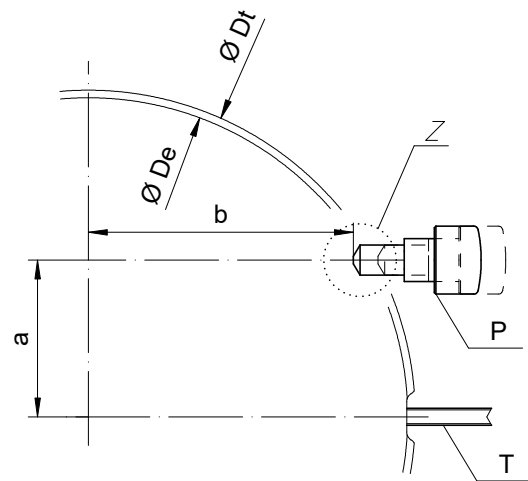
Angle Winkel Angle	10°	
Ø Dp	a	b
1.10	3.98	11.35
1.20	4.03	11.33



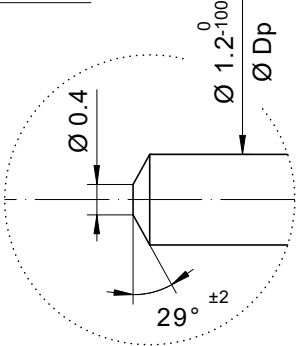
Detail Y



Angle Winkel Angle	0°	
Ø Dp	a	b
1.10	5.92	10.51
1.20	5.97	10.48



Detail Z



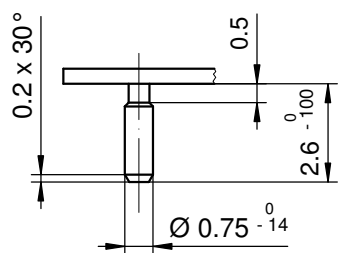
- Ø De: diamètre d'encageage
Durchmesser der Gehäusepassung
fitting-diameter
- Ø Dp: diamètre du poussoir
Drückerdurchmesser
pusher-diameter
- Ø Dt: diamètre total
Totaldurchmesser
total-diameter
- P: poussoir en position poussée
Drücker in gedrückter Stellung
pusher in pressed position
- T: tige de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

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

RONDA

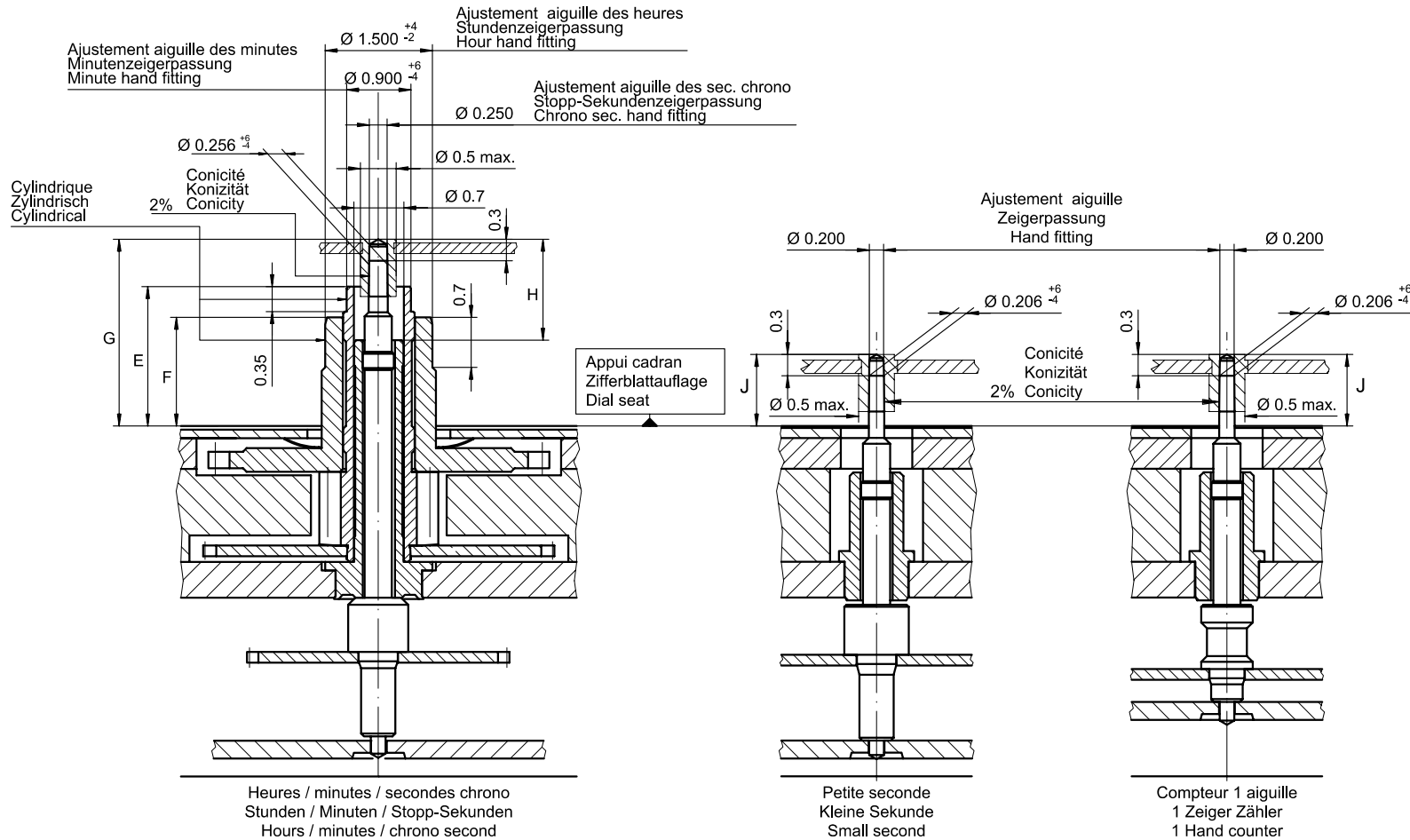
35xx.x

Issued	02 Feb 2010	mK
Modified	03 Feb 2011 ÄA 6970	mK
Released	YES	
Tolerance	+/- 20 µm	
Scale	2.5 : 1 (10 : 1) (A3H)	
Sous réserve de modifications Äenderungen vorbehalten Modifications reserved		
No.	5000.384	00



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

Issued	05 Mai 2009	mg
Modified	03 Feb 2011 ÄÄ 6970	mK
Released	YES	
Tolerance	+/- 20 µm	
Scale	5 : 1 (A4V)	
Sous réserve de modifications Äenderungenvorbehalten Modificationsreserved		
No.	5010.670	00



	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	0.8	0.8	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

* 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

Aiguillages Zeigerwerkhöhe Hand fitting height						
Dépassement Höhe über Zifferblattaufgabe Height over dial seat						
Pignon des secondes chrono Stopp-Sekundentrieb Chrono second pinion	Chaussée Minutenrohr Cannon-pinion	Roue des heures Stundenrad Hour wheel	Petite seconde Kleine Sekunde Small second	Pignon compteur Zählertrieb Counter pinion	1 aig. 1 Zeiger 1 Hand	
No	G	E	F	H	J	J
1	2.61	1.95	1.52	1.41	1.00	1.00
-						

Aiguillages Zeigerwerkhöhe Hand fitting height						
Peinture comprise / inkl. Farbe / Paint included						
Epaisseur maximum du cadran Maximale Zifferblattstärke Maximum dial thickness						
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	
No						
1	2.00	1.45	1.00	0.60	0.60	0.15
-						

Sous réserve de toutes modifications

Änderungen vorbehalten

All modifications reserved

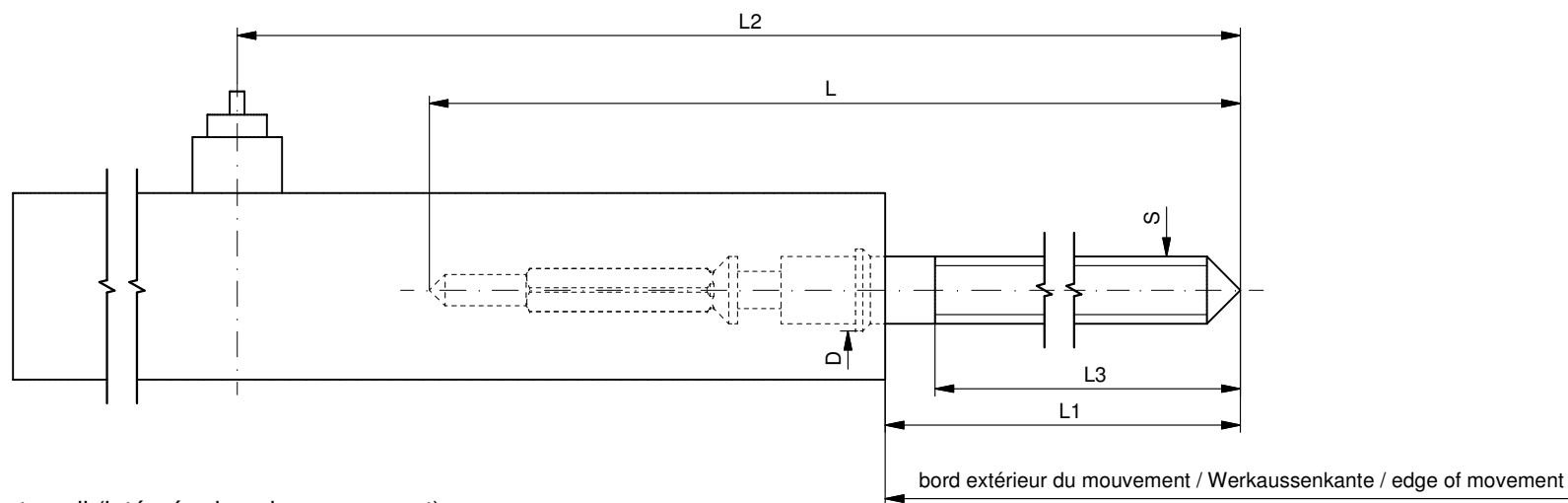
Aiguillages
Zeigerwerkhöhen
Hand fitting heights

11½"

RONDA

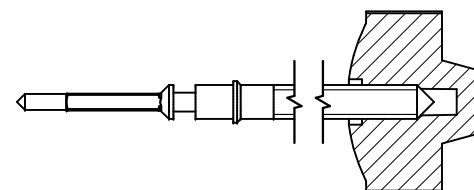
3540.D

Issued	30 Apr 2009	mg
Modified	03 Feb 2011 ÄA 6970	mK
Released	YES	
Tolerance	μm	
Scale	15 : 1 (A3H)	
Sous réserve de modifications Änderungen vorbehalten Modifications reserved		
No.	3316.129	00



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

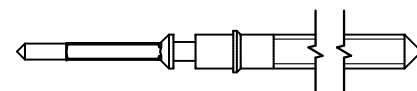
No. d'article Artikelnummer Part number	L	L1	L2	L3	S	D
3000.205.CO	19.24	10.95	22.90	10.15	0.90	1.10



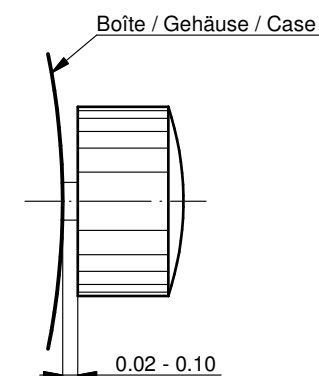
Couleur de la couronne Kronenfarbe Crown color	gris clair hellgrau light grey
Code	UN 7014

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

No. d'article Artikelnummer Part number	L	L1	L2	L3	S	D
3000.205	19.24	10.95	22.90	10.15	0.90	1.10
3000.210	32.00	23.71	35.66	22.91	0.90	1.10



Couronne normale
Normale Krone
Normal crown

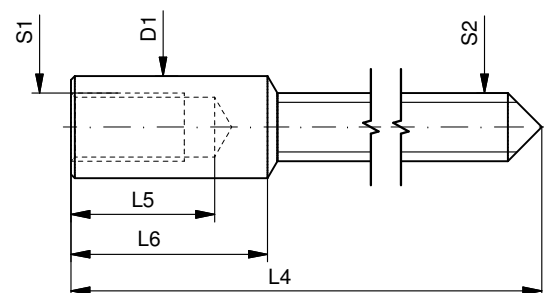


Couronne vissée
Geschraubte Krone
Screwed crown

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

3520.D, 3540.D

Issued	07 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.	5030.024	01



Movement holder
Removing setting stem
H35XX.1T



Movement holder
Setting hands
H35XX.1A

Fitting dial and hands

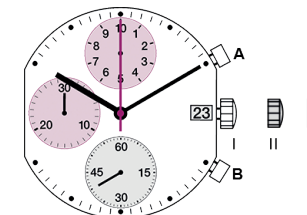
- Crown in position III
- Wind hour hand forwards, until date changes
- Remove working hand
- Place friction spring 3315.016 on hour wheel, if not already in place
- Fit dial
- Point all hands towards 12 o'clock
- Set time
- Zero chronograph hand*
- Crown in position II
- Set date
- Crown in position I

Date switching duration:

~1¼hrs

*Zeroing the Chronograph hand

- Push correctors A and B at the same time for 2 seconds
(Chrono-seconds hand rotates once)
- Pusher A → to correct chrono seconds
- Pusher B → to make minute and hour counters jump
- Pusher A → to correct counter position
- Pusher B → to make minute counter jump
- 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.

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

分针

中心秒针

1/10 秒针 (30秒后转为小时计)

分钟计

时针

秒针

日历

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, ① 当秒针指向 «60» 时, 拉把的设定变小时及分钟后, ② 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 I

3 推把的回位置 I

注意:

8:30 PM至12 PM为日历转换时段, 若在这时段内设定日期, 必须比正确日期多转一天。

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 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 III。

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 I。

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 请参阅步骤 « 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 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)

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 ③ 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 通时: (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 ③ 后, 可再按下按钮 B 继续计算分段时间 (显示分段时间 / 通时, ...)

07

调较计时指针到零位置

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)。

08

调较中心秒针

单步前进 1x 短按 A

连续前进 1x 长按 A

调较下一支指针 B

调较 1/10 秒针 (12 时位置)

单步前进 1x 短按 A

连续前进 1x 长按 A

调较下一支指针 B

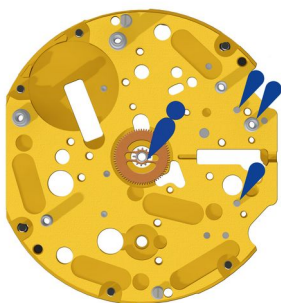
调较分钟计 (9 时位置)




单步前进 1x 短按 A

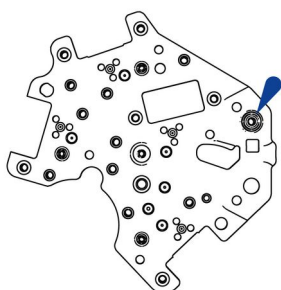
连续前进 1x 长按 A




3 推把的回位置 I 结束调较计时指针 (能在任何时候执行)。

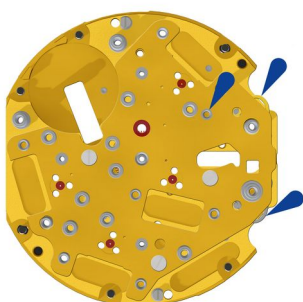
08








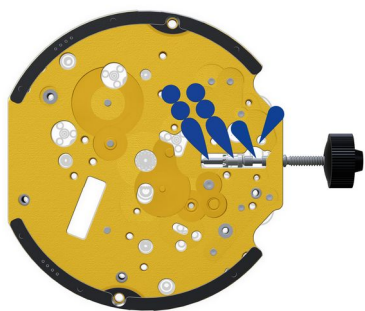
- | | | | |
|---|---|---|---------------------------|
| 1 |  | 2000.703.G | Main plate |
| 2 |  | 3305.357.CO | Cannon pinion (Aig.) |
| 3 |  | 8200 / J124
1x Jismaa 124
3x Moebius 8200 | Moebius 8200 / Jismaa 124 |










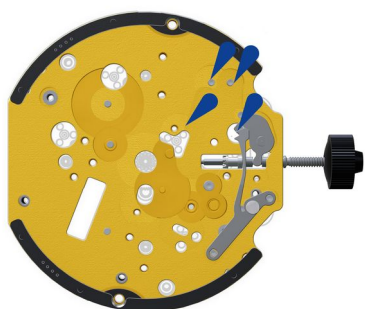
- | | | | |
|---|--|----------|---|
| 4 |  | 3406.030 | Push jumper B
Put the grey jumper between the two pillars. |
| 5 |  | 3406.038 | Pusher jumper A
Put the yellow jumper between the two pillars. |
| 6 |  | 8200 | Moebius 8200
Lubricate the following spare part before assembling. |







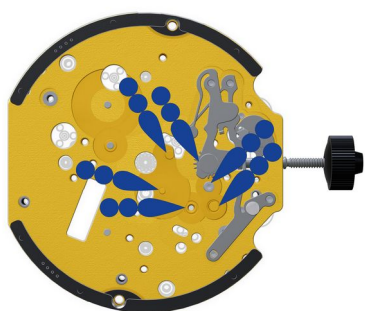
- | | | | |
|----|---|-------------|---------------|
| 7 |  | 2030.034.CO | Center bridge |
| 8 |  | 4000.250 | Schraube |
| 9 |  | 4000.250 | Schraube |
| 10 |  | 4000.250 | Schraube |
| 11 |  | 8200 | Moebius 8200 |






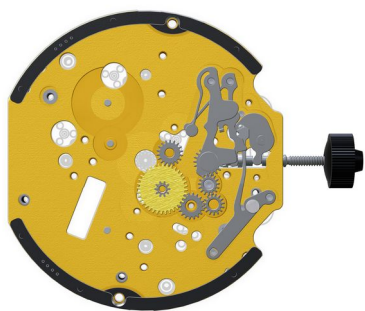
12		3016.030	Stop lever
13		4000.305	Screw
14		3601.140.G	Lateral bridle
15		4000.250	Schraube
16		3000.205.CO	Working stem (dual)
17		3001.066.FI	Sliding pinion
18		8200 / 9020 2x Moebius 9020 2x Moebius 8200	Moebius 8200 / Moebius 9020








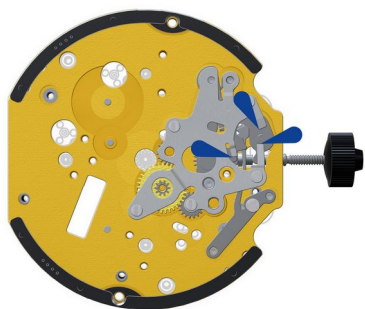
19		3017.061.CO	Setting lever
20		3905.078	Setting lever jumper
21		4000.304	Screw
22		8200	Moebius 8200










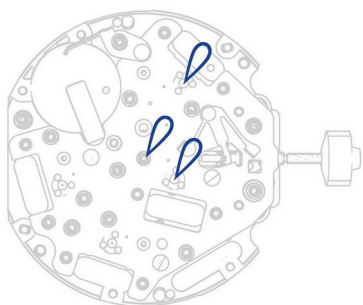
23		3015.092	Yoke
24		3015.093.CO	Setting wheel yoke
25		9020	Moebius 9020



26		3004.200	Corrector setting wheel
27		3004.200	Corrector setting wheel
28		3004.234.TA	Date corrector setting wheel
29		3007.090.CO	Minute wheel
30		3004.233	Intermediate setting wheel



31		2130.215	Setting mechanism cover
32		4000.336	Screw
33		4000.336	Screw
34		4000.336	Screw
35		4000.336	Screw
36		4000.336	Screw
37		8200	Moebius 8200

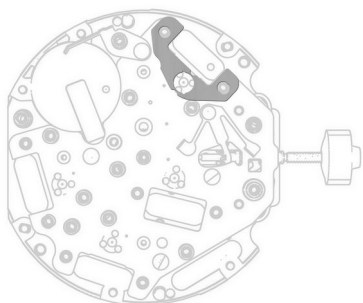


38



9014

Moebius 9014



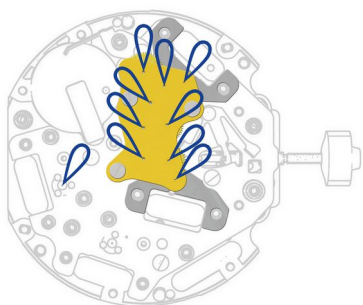
39



3622.057

Stator

Mark 1 / 2 on stator.



40



3622.057

Stator

Mark 1 / 2 on stator.

41



3715.124.RK

Rotor

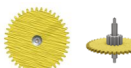
42



3715.124.RK

Rotor

43



3147.079.CO

Intermediate wheel

44



3136.199.CO

Chronograph wheel (Aig.)

45



3136.198.CO

Second wheel (Aig.)

46



3004.229

Second intermediate wheel

47





3136.197.CO

Small second wheel (Aig.)


48  3147.079.CO Intermediate wheel

49  3122.069.CO Third wheel

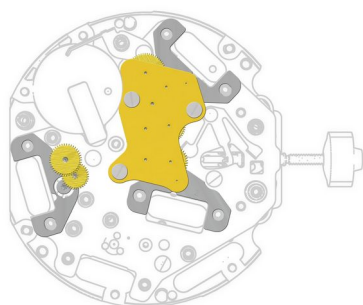
50  2020.199.G Train wheel bridge


51  4000.282 Screw


52  4000.282 Screw

53  4000.282 Screw

54  9014 Moebius 9014

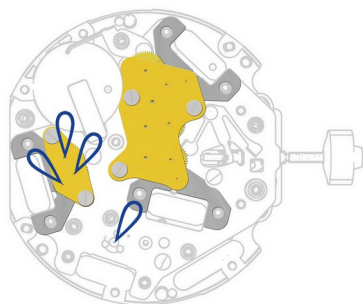


55  3622.059
Mark 4 on stator. Stator


56  3715.125.RK Rotor


57  3147.080.CO Intermediate wheel

58  3402.046.CO Minute-counting wheel

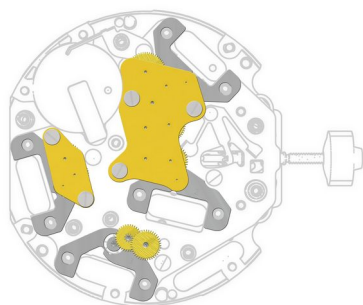





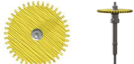
59  2020.203.G Counter train wheel bridge

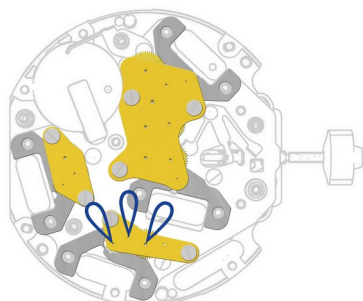
60  4000.282 Screw





61  4000.282 Screw

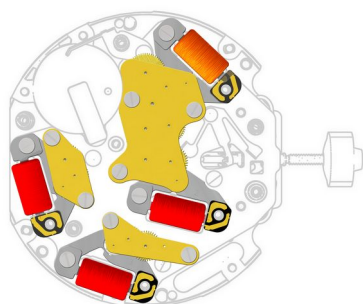
62  9014 Moebius 9014






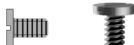



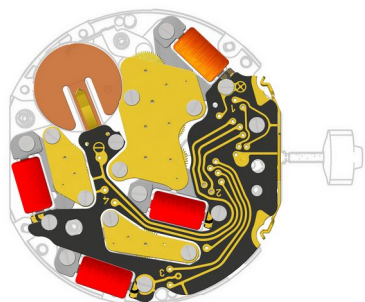
63		3622.058 Mark 3 on stator.	Stator
64		3715.125.RK	Rotor
65		3147.081.CO	Intermediate wheel
66		3402.047.CO	Tenth of a second counting wheel













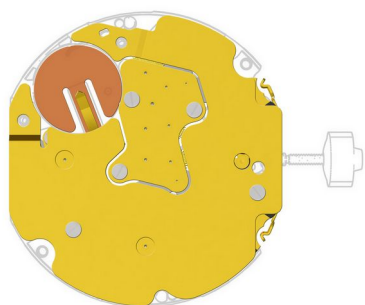
67		2020.201.G	Counter train wheel bridge
68		4000.282	Screw
69		4000.282	Screw
70		9014	Moebius 9014






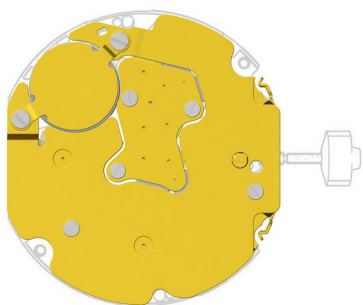
71		3621.080.RK Attention: Please hold the coil only on the grey coil core.	Coil
72		3621.054.RK Attention: Please hold the coil only on the grey coil core.	Coil
73		3621.054.RK Attention: Please hold the coil only on the grey coil core.	Coil
74		3621.054.RK Attention: Please hold the coil only on the grey coil core.	Coil
75		4000.250	Schraube
76		4000.250	Schraube
77		4000.250	Schraube




78		4000.250	Schraube
79		3603.092	Battery insulator
80		3601.141.G	Contact spring for pusher
81		3612.244.RK.3540	Electronic module
82		4000.248	Screw
83		4000.248	Screw
84		4000.248	Screw
85		4000.248	Screw
86		4000.248	Screw
87		4000.248	Screw





88		2130.212.G.M01.3540D	Electronic modul cover
89		4000.250	Schraube
90		4000.250	Schraube

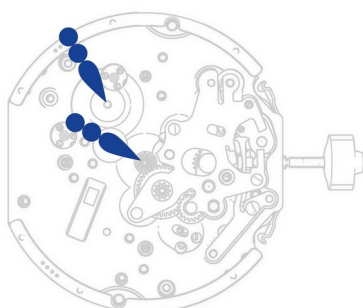



91  3600.011.HGF Battery 384 (Ø 7.90 x 3.60)

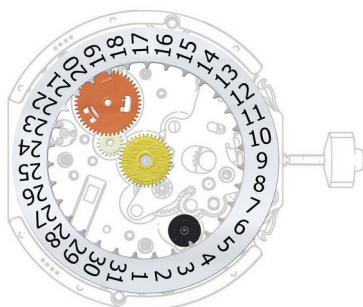
92  3601.139.G Bridle +

93  4000.335 Screw

94  4000.335 Screw




95  9020 Moebius 9020




96  3301.317 Hour wheel (Aig.)







97  3507.062 Date corrector

98  3147.082 Intermediate date wheel







99  3004.230.CO Date indicator driving wheel

100  3504.238.AA.1.A Date indicator (T3, G3)
Nick of the indicator at 3 o'clock.

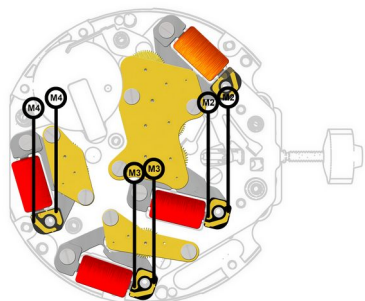


101		2130.213	Date indicator maintaining plate
102		3315.016	Friction spring
103		3905.079	Date corrector spring
104		3500.076	Date jumper
105		3905.077	Date jumper spring
106		8200	Moebius 8200

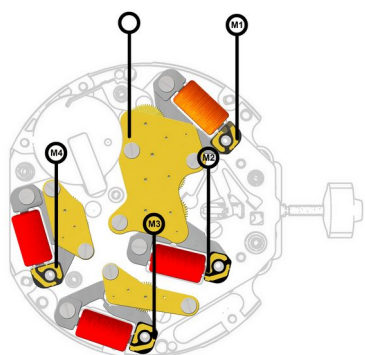


107		2130.214	Date mechanism maintaining plate
108		4000.337	Screw
109		4000.337	Screw
110		4000.337	Screw
111		4000.337	Screw
112		4000.337	Screw

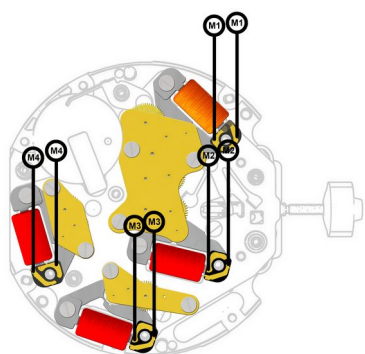
Measurement



Signal generator (4.9ms, 8Hz)
< 1.20 V



Coil insulation M1 - M4
infinite

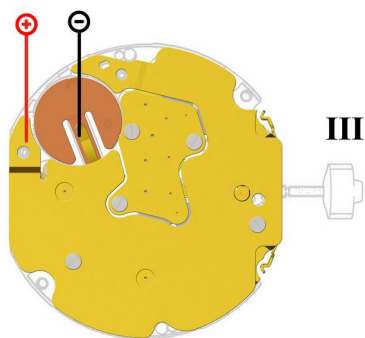


Coil resistance movement

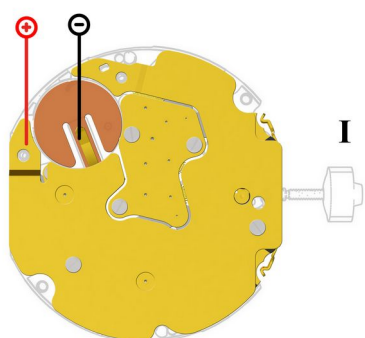
Coil resistance M2
 $1780 \pm 100 \text{ Ohm}$

Coil resistance M3
 $1780 \pm 100 \text{ Ohm}$

Coil resistance M4
 $1780 \pm 100 \text{ Ohm}$



Setting stem in position III, 60 s measuring interval.
(typ./max.) 0.10 / 0.30 μ A

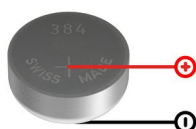


Setting stem in position I, calendar not in gear, 60s measuring interval.

(typ./max.) 1.48 / 2.00 μ A

Lower working voltage limit
<1.20 V

60s measuring interval
-10 .. +20 s/mth



Voltage
typ. 1.5 V