

Specification

12 ½"



Dimensions and battery

∅ Total	28.60 mm
∅ Case fitting	28.00 mm
Movement height	4.40 mm
Movement rest	0.60 mm
Height of stem	1.90 mm
Stem: Thread / Distance	0.90 mm / 0.90 mm
Battery / Autonomy	Nr. 395 / 48 Months

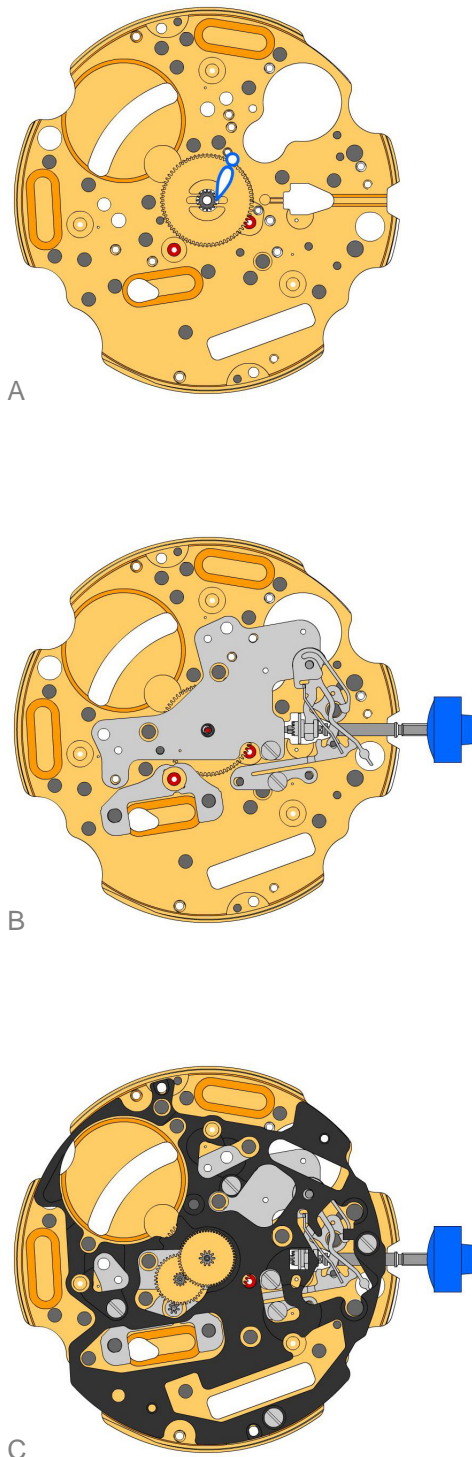
Performances














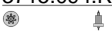


	Second hand (M2): 6 µNm
Torque T	Minute hand: 6 µNm
Operating temperature	0°C - 50°C
Res. against magn. fields	18.8 Oe = 1500 A/m
Resistance against shock	NIHS 91 - 10

Functions

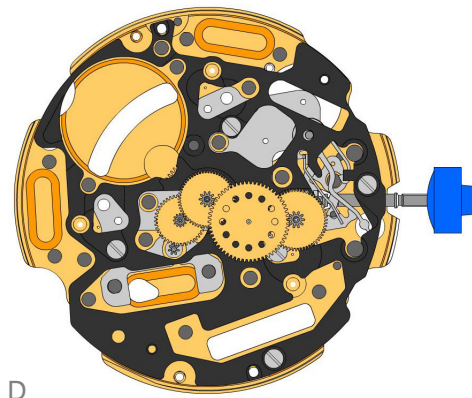
Position I (crown)	Neutral
Position II (crown)	Setting the date (quick mode)
Position III (crown)	Setting Time

Assembling



1. 2000.577.G **Main plate**

2. 3305.314.CO **Cannon pinion with driver (Aig 2)**

 Moebius 8200 grease must be placed between the steel tube and the brass wheel. The steel tube must be placed into the center hole of the main plate.
3. 2030.019.CO **Centre bridge**

 Use one screw 4000.250 to fix the center bridge.
4. 3001.041 **Sliding pinion**

 The sliding pinion must be holded using a tweezers, untill the stem is inserted.
5. 3000.177.CO **Handsetting stem**

 Prior to the insertion of the stem, some grease must be placed on the square part of the stem.
6. 3017.049 **Setting lever**

 The cam on the setting lever must be inserted into the cut out on the stem. (the setting lever must be greaced)
7. 3905.049 **Setting lever jumper (3 positions)**

 The setting lever jumper (3 positions) must be tensioned and inserted into the setting lever. Use one screw 4000.250 to fix the setting lever.
8. 4000.250 **Screw**

9. 3015.076 **Yoke (3 positions)**

 The yoke must be inserted below, into the cut out of the sliding pinion.
10. 3905.058 **Yoke spring**

 The yoke spring must be positioned on the yoke. The opposite end of the yoke must be positioned around the pillar of setting lever. Use Moebius 8200 to grease the yoke.
11. 3622.039 **Stator**

12. 3603.065 **Plastic bracket**

 Use 4 screws 4000.250
13. 4000.250 **Screw**

14. 3715.094.RK **Rotor centre**

 Use an antimagnetic tweezers to place the rotor.
15. 3147.047.CO **Intermediate wheel (chrono)**

16. 3136.172.CO **Second wheel (height 0)**


Assembling



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17. 3136.148.CO Second wheel (short)



18. 3122.056.CO Third wheel

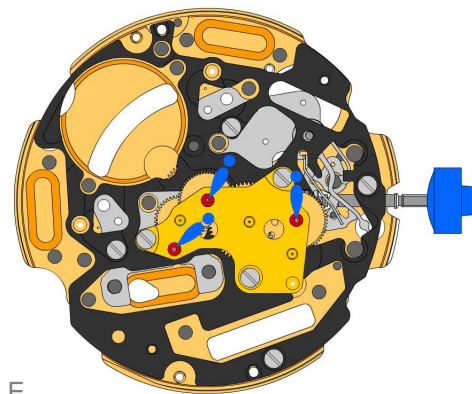


19. 2020.164.G Train wheel bridge



Attention: Prior to the fastening process of the bridge, all pins of the wheels must be visible in the holes in the bridge. Use 3 screws 4000.250.

20. 4000.250 Screw



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21. 9014.000 Moebius 9014



Use Moebius 9014 on bearing of all rubis

22. 3621.054.RK Coil (movement)



The wire of the coil (red area) is very sensitiv to mechanical impacts. Hold the coil only outside the red area. Fix the coil by 1screw 4000.250.

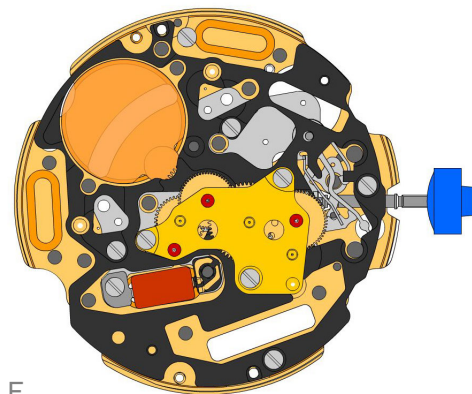
23. 4000.250 Screw



24. 3503.059 Tube

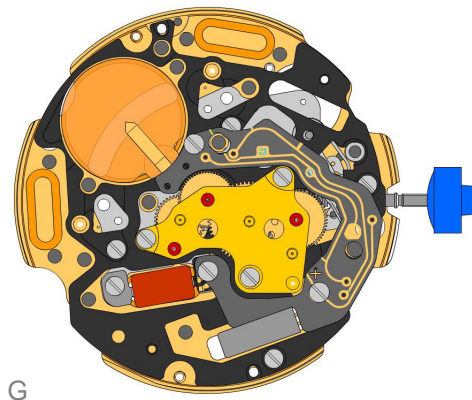


25. 3603.034 Battery insulator



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Assembling



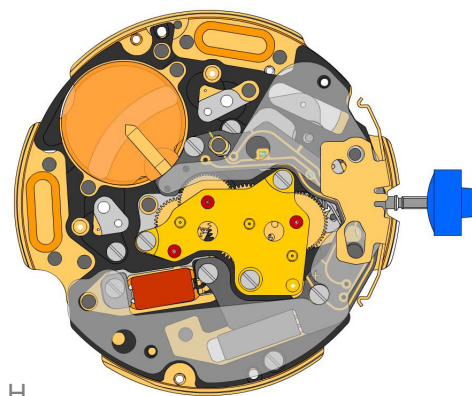
26. 3612.147.4003 **Electronic module**
 After assembly of the electronic module it is the best time to perform the electrical measurements. Use 3 screws 4000.248 to fix the electronic module.



27. 4000.248 **Screw**



28. 3503.068 **Tube**



29. 3603.076 **Circuit insulator**



30. 3601.107 **Pusher contact spring**
 Make shure, that the pusher contact spring is placed correctly onto the pillars.



31. 2130.176.4003.B **Electronic module cover (counter 6h)**
 Make shure, that the pusher contact spring is not displaced during attachment of the electronic module cover. Use 3 screws 4000.250 to fix the electronic module cover



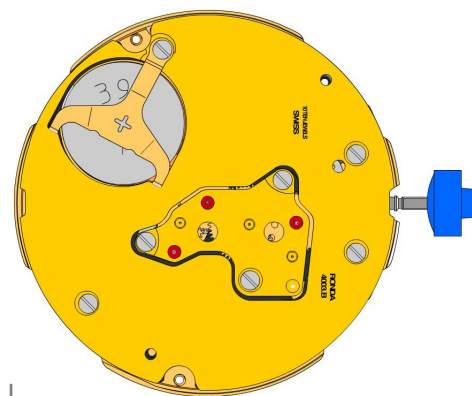
32. 3600.010 **Battery**
 Use a plastic tweezers to place the battery (to avoid short circuit of battery).



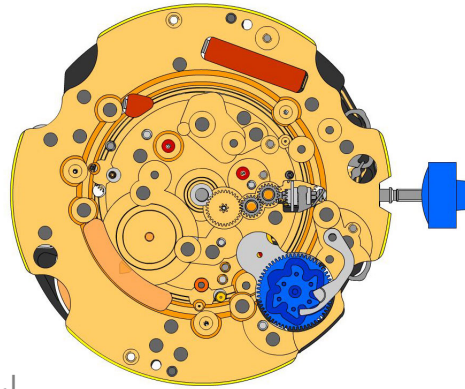
33. 3601.109 **Bridle +**
 Insert the two brackets of the battery bridle under the electronic module cover and fasten the battery bridle by 1 screw 4000.250.



34. 4000.250 **Screw**



Assembling



35. 2000.577.G Main plate



36. 9014.000 Moebius 9014
 Use Moebius 9014 on bearing of all rubis



37. 3004.164 Setting wheel
 Use Jismaa 124 or Greace Moebius on both setting wheels.



38. 3007.054.CO Minute wheel
 Use Moebius 9020



39. 2130.143 Minute train bridge
 Use 2 screws 4000.305



40. 4000.305 Screw



41. 3004.181 Tens indicator driving wheel
 The short tooth of the tens indicator driving wheel must point to the center of the movement.



42. 3500.059 Tens jumper
 Moebius 8200 greace must be placed between the tens jumper and the tens indicator driving wheel.



43. 2130.142 Tens jumper maintaining plate
 Make shure, that the tens indicator driving wheel is not blocked prior to the fastening process. Use 2 screws 4010.306. Place the spring loaded bracket outside of the tens jumper.



44. 4010.306 Screw



45. 3301.285 Hour wheel (Aig 0)
 Use Moebius 9020



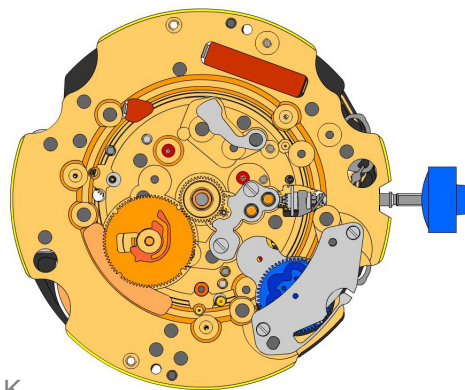
46. 3315.016 Hour wheel friction spring
 Must be placed onto the hour wheel



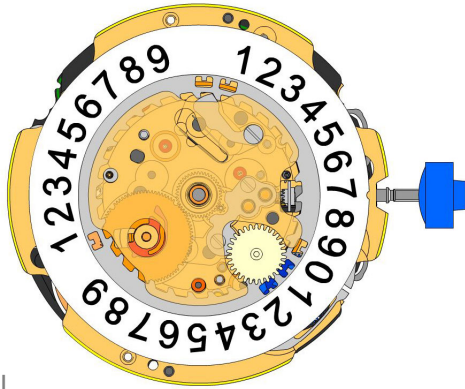
47. 3004.176.CO Date indicator driving wheel
 Moebius 9020 must be used in the center of this wheel



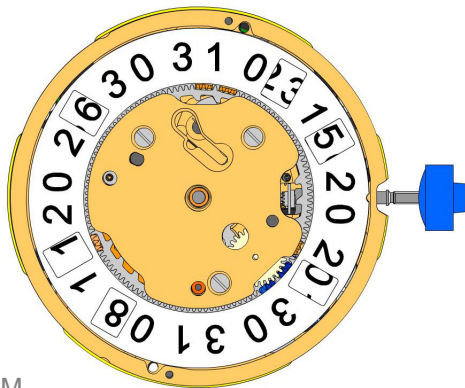
48. 3500.049 Date jumper
 Moebius 8200 greace must be placed between the date jumper and the date jumper spring














Assembling



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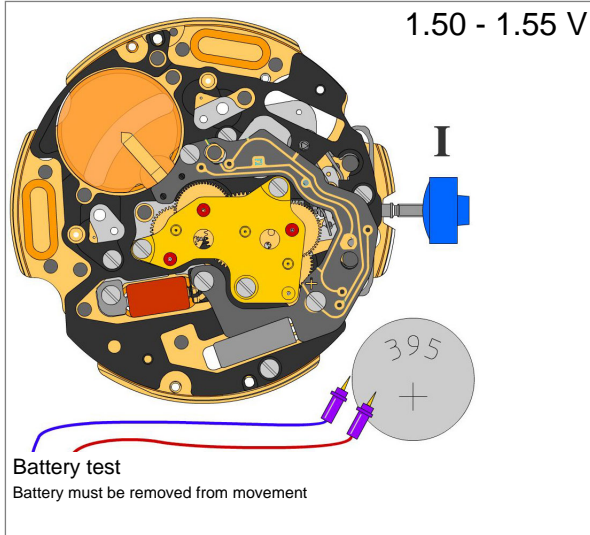


M

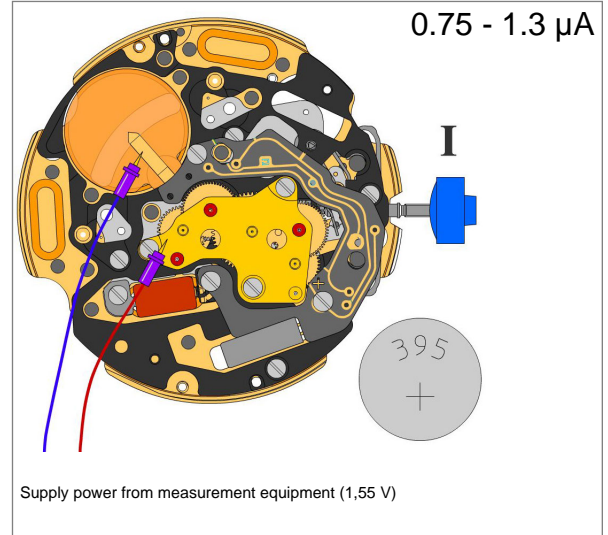
- 49. 3504.214.AD **Units indicator**

 Teaths must be greaced using Moebius 8200. The "half moon" cut out on the unit indicator must point to the stem (position 3h).
- 50. 3147.054 **Tens intermediate wheel**

- 51. 2130.141 **Date indicator maintaining plate**
 use 1 screw 4000.250

- 52. 3905.050 **Date jumper spring**
 Insert the spring into the opening of the date indicator maintaining plate

- 53. 3504.215.AD **Tens indicator (T3/G12)**

 The "half moon" cut out on the tens indicator must point to the stem (position 3h).
- 54. 2130.140 **Date mechanism maintaining plate**
 Assure that the tens intermediate wheel is not blocked, prior to the fastening process. Use 2 screws 4000.250 to fix the date indicator maintaining plate

- 55. 3506.072 **Dial support**

- 56. 4000.250 **Screw**

- 57. 9010.000 **Moebius 8200**
 Microgliss D5 can be used

- 58. 9018.000 **Jismaa 124**
 Greace Moebius or Microgliss D5 an be used

- 59. 9020.000 **Moebius 9020**


Electrical checking

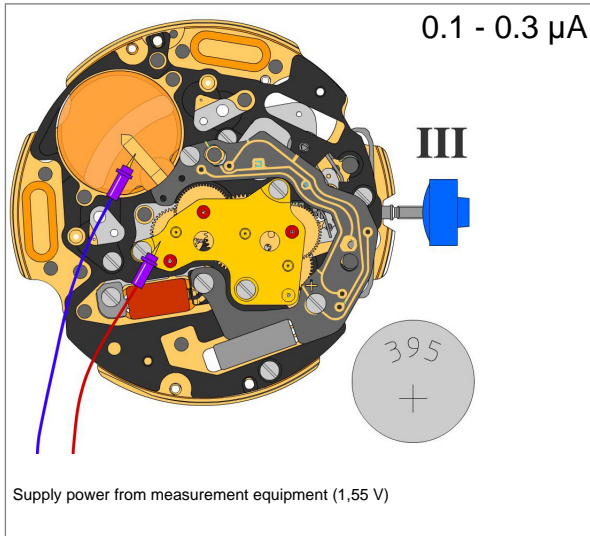
Voltage of battery



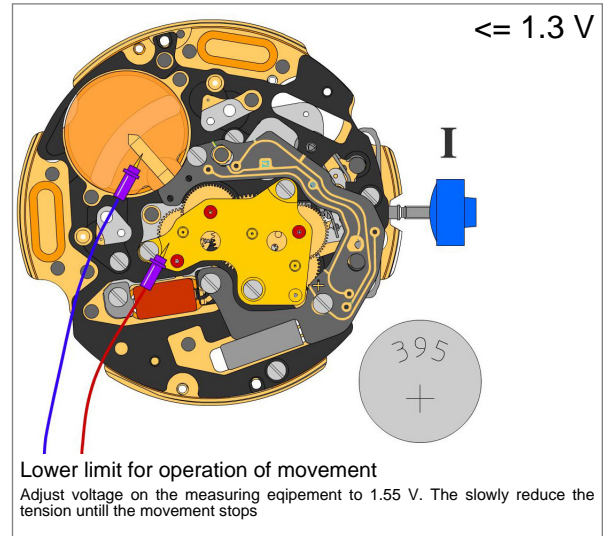
Consumption (M2) of movem. (Pos. I)



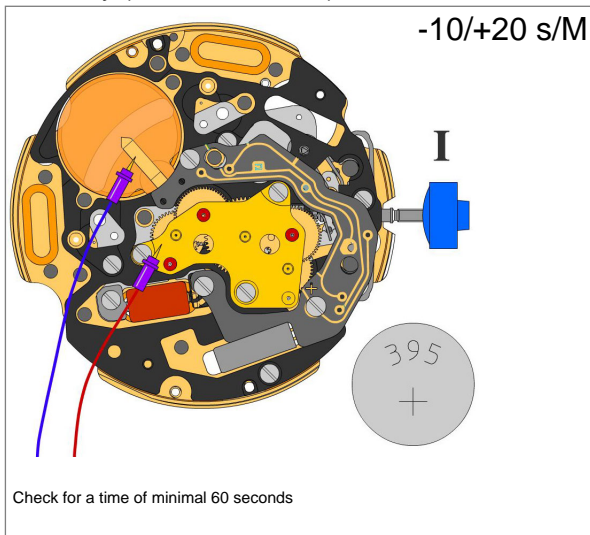
Consumption (M2) of movem. (Pos. III)



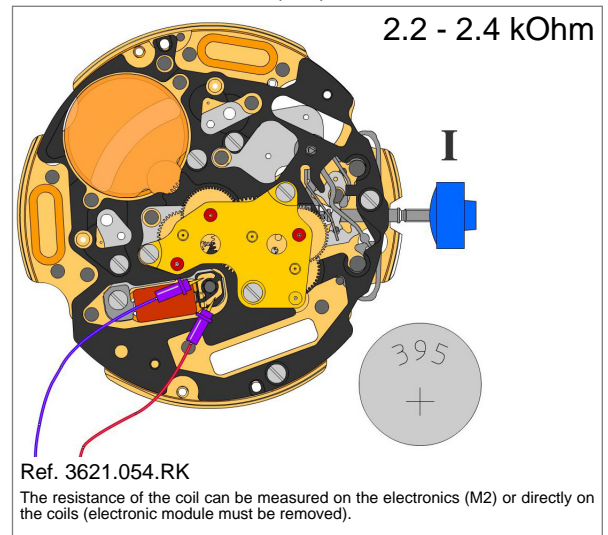
Lowest voltage for movement (M2)



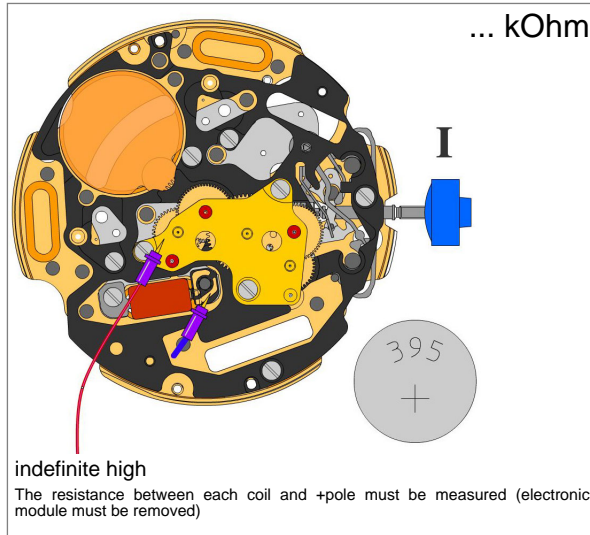
Accuracy (seconds / month)



Resistance of the coil (M2)



Coil insulation (M2)



Test of the motors

Accelerated test of movement (M1)

