Technical Instructions   6203.B

Specification

11 ½'''

Dimensions and battery

|	
ø Total	26.2 mm
ø Case fitting	25.6 mm
Movement height	3.30 mm
Movement rest	1.40 mm
Height of stem	1.80 mm
Stem: Thread / Distance	0.90 mm / 0.90 mm
Battery / Autonomy	Nr. 373 / 36 Months

Performances

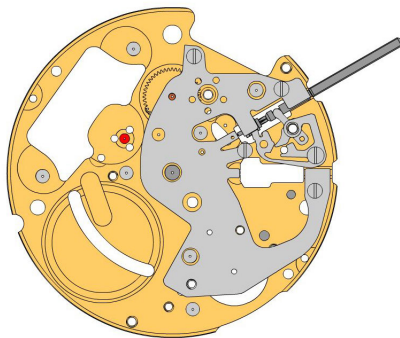|		
	Second hand:	6 µNm
Torque T	Minute hand:	300 µNm
Operating temperature	0°C - 50°C	
Res. against magn. fields	18.8 Oe = 1500 A/m	
Resistance against shock	NIHS 91 - 10	

Functions

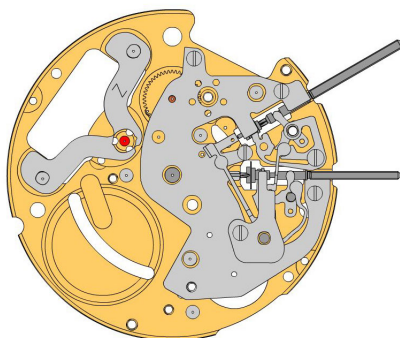|	
Position I (crown)	Neutral
Position II (crown)	Setting the date (quick mode)
Position III (crown)	Setting Time
Position I (crown 2)	Neutral
Position II (crown 2)	Set 2nd time

CE

Assembling
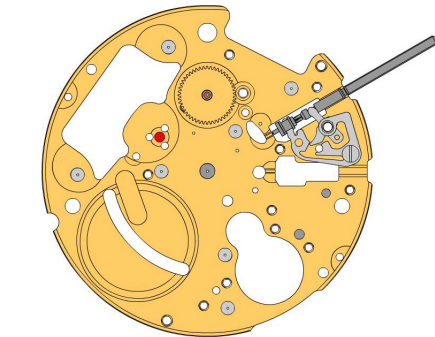
A

B

C

|		
1.	2000.625.G	Main plate
2.	3017.052	Setting lever
		The cam on the setting lever must be inserted into the cut out on the stem. (the setting lever must be greaced)
3.	3015.075	Yoke dual
		Use 1 screw 4000.282
4.	4000.282	Screew
5.	3001.044	Sliding pinion
		The sliding ponion must be holded using a tweezers, untill the stem is inserted.
6.	3000.190.CO	Handsetting stem
		Prior to the insertion of the stem, some greace must be placed on the square part of the stem.
7.	3301.277	Hour wheel dual BD
8.	2130.167	Centre bridge
		Use 4 screws 4000.300 to fix the center bridge.
9.	4000.300	Screw
10.	3017.052	Setting lever
		The cam on the setting lever must be inserted into the cut out on the stem. (the setting lever must be greaced)
11.	3015.074	Yoke (3 positions)
		The yoke must be inserted below, into the cut out of the sliding pinion.
12.	3001.042	Sliding pinion
		The sliding ponion must be holded using a tweezers, untill the stem is inserted.
13.	3000.189.CO	Handsetting stem
		Prior to the insertion of the stem, some greace must be placed on the square part of the stem.
14.	2020.166	Yoke bridge
		Use 1 screw 4000.244.
15.	4000.244	Screw
16.	3622.042	Stator

Technical Instructions   6203.B
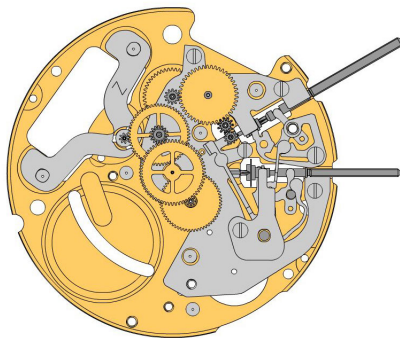
Assembling
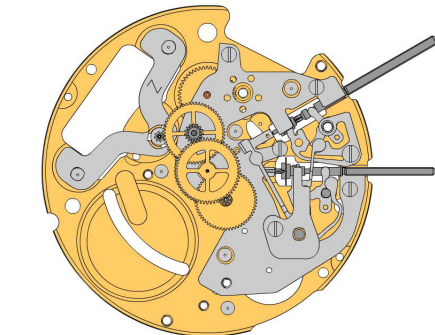
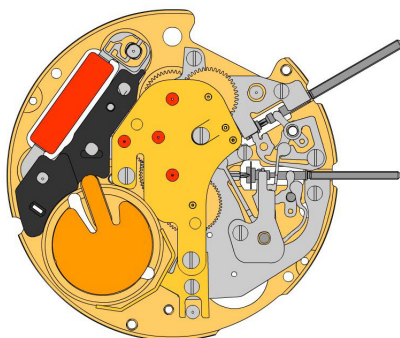|		
17.	3715.103.RK	Rotor centre
		Use an antimagnetic tweezers to place the rotor.
18.	3147.056.CO	Intermediate wheel
19.	3122.059.CO	Third wheel
20.	3136.160.CO	Second wheel (height 1)
21.	3305.313	Pignon chausée dual
22.	3004.185.CO	Setting wheel inter. dual
23.	3004.198.FI	Setting wheel dual
24.	3007.074.CO	Minute wheel dual
25.	2020.167.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 4000.279.
26.	4000.279	Screw
27.	3601.117	Battery contact spring
		Use 1 screw 4000.244.
28.	4000.244	Screw
29.	3621.060.RK	Coil (movment)
		The wire of the coil (red area) is very sensitiv to mechanical impacts. Hold the coil only ouside the red area.£Fix the coil by 1screw 4000.250.
30.	3603.074	Bride insolator
31.	3603.075	Battery insulator

D

E

F

Assembling
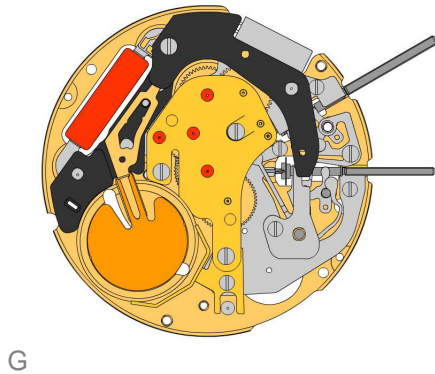
32. 3601.116 | **Bridle (-)**

Make shure, that the pusher contact spring is placed correctly onto the pillars.

33. 3612.181.6203 | **Electronic module**

After assembly of the electronic module it is the best time to perform the electrical measurements. Use 1 screw 4000.318 to fix the electronic module.

34. 4000.318 | **Screw**

35. 2130.168.6203.B | **Electronic module cover (counter 6h)**

Use 3 screws 4000.102 to fix the electronic module cover

36. 4000.102 | **Screw**

37. 3600.031 | **Battery**

Use a plastic tweezers to place the battery (to avoid short circuit of battery).

G

H

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Technical Instructions   6203.B

Assembling

38. 2000.625.Gb   Main plate

39. 9014.000   Moebius 9014
Use Moebius 9014 on bearing of all rubis

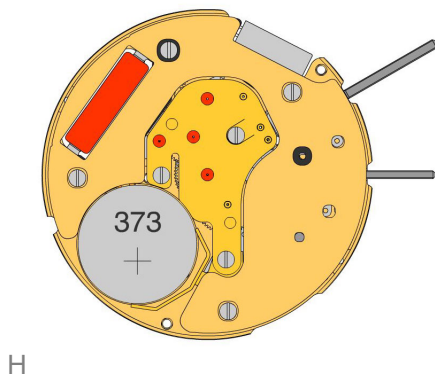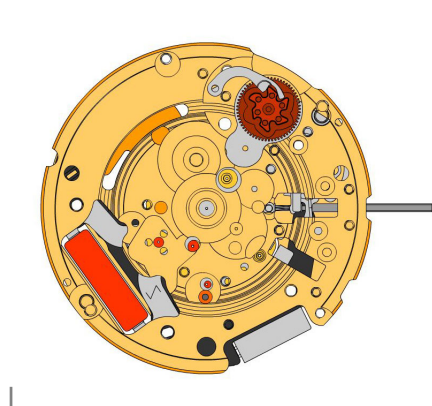40. 3004.188   Tens indicator driving wheel
The short tooth of the tens indicator driving wheel must point to the
center of the movement.

41. 3500.060   Tens jumper
Moebius 8200 greace must be placed between the tens jumper and the
tens indicator driving wheel.

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42. 2130.171   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.

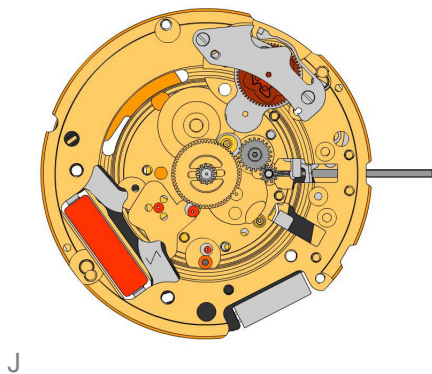43. 4010.306   Screw

44. 3004.182   Setting wheel
Use Moebius 9020

45. 3004.183   Setting wheel inter.

46. 3305.305.CO   Date indicator driving wheel
Moebius 9020 must be used in the center of this wheel

J

47. 3007.073

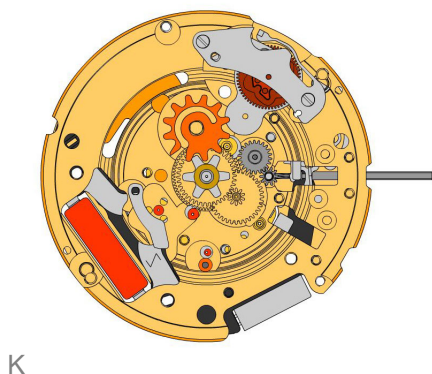48. 3301.271.CO   Hour wheel (Aig 1)

49. 3315.001   Hour wheel friction spring
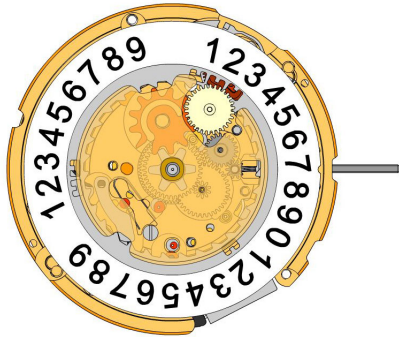
50. 3004.187   Date indicator driving wheel
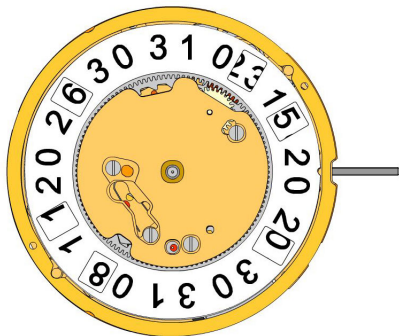Moebius 9020 must be used in the center of this wheel.

51. 3500.061   Date jumper
Moebius 8200 greace must be placed between the date jumper and the
date jumper spring

K

Technical Instructions   6203.B

Assembling

L

M

52.	3504.217	**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).
53.	3147.057	**Tens intermediate wheel**
54.	2130.169	**Date indicator maintaining plate**
		use 1 screw 4000.312
55.	3905.050	**Date jumper spring**
		Insert the spring into the opening of the date indicator maintaining plate
56.	3504.218	**Tens indicator (T3/G12)**
		The "half moon" cut out on the tens indicator must point to the stem (position 3h).
57.	2130.170	**Date mechanism maintaining plate**
		Assure that the tens intermediate wheel is not blocked, prior to the fastening process. Use 3 screws 4000.312 to fix the date indicator maintaining plate.
58.	4000.312	**Screw**
59.	3506.075.G	**Dial support**
60.	9010.000	**Moebius 8200**
		Microgliss D5 can be used
61.	9018.000	**Jismaa 124**
		Greace Moebius or Microgliss D5 an be used
62.	9020.000	**Moebius 9020**

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Voltage of battery

1.50 - 1.55 V

I

373
+

Battery test
Battery must be removed from movement

Consumption of movem. (Pos. I)

0.9 - 1.3 µA

I

373
+

Supply power from measurement equipment (1,55 V)

Consumption of movem. (Pos. III)

0.08 - 0.2 µA

III

373
+

Supply power from measurement equipment (1,55 V)
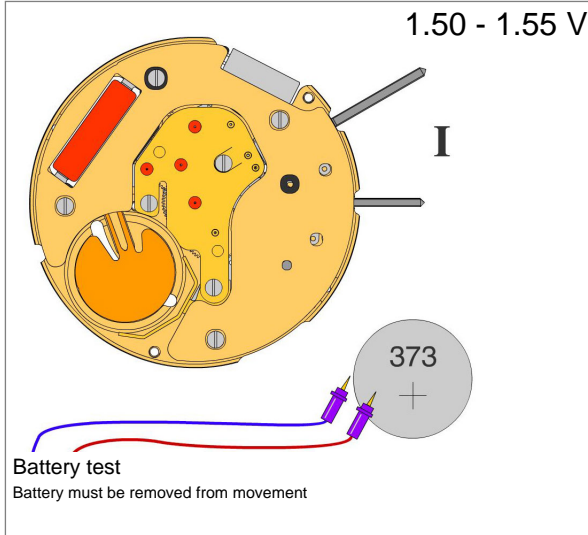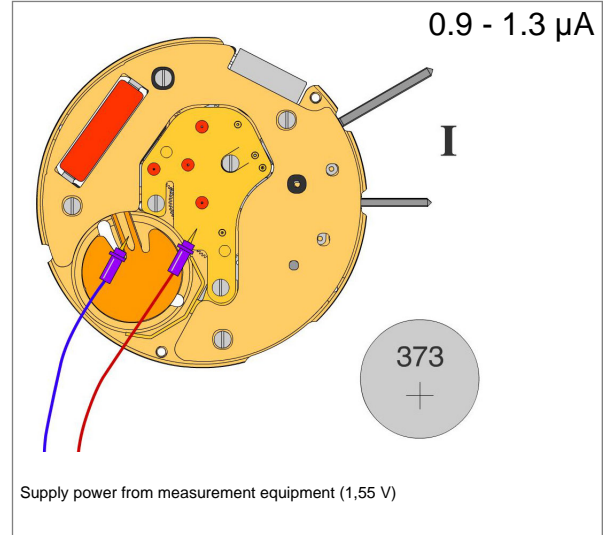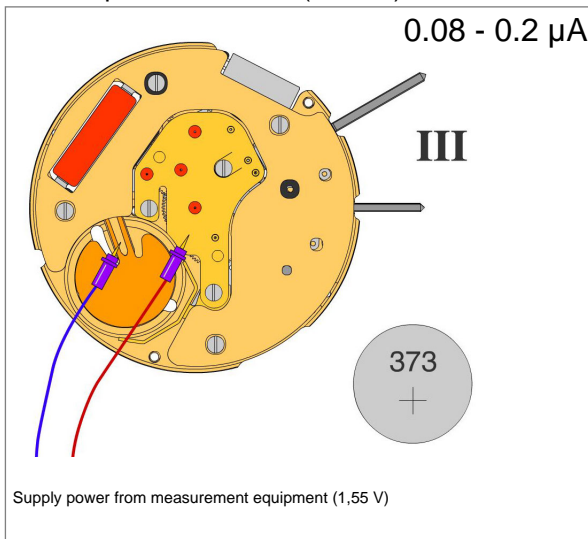
Lowest voltage for movement

<= 1.3 V

I

373
+

Lower limit for operation of movement
Adjust voltage on the measuring eqipement to 1.55 V. The slowly reduce the tension untill the movement stops

Accuracy (seconds / month)

-10/+20 s/M

I

373
+

Check for a time of minimal 60 seconds

Resistance of the coil

1.6 - 1.8 kOhm

I

373
+

Ref. 3621.060.RK
The resistance of the coil can be measured on the electronics (M2) or directly on the coils (electronic module must be removed).

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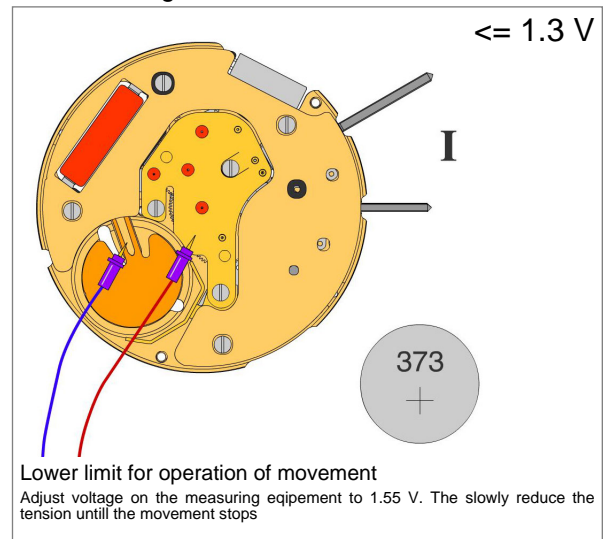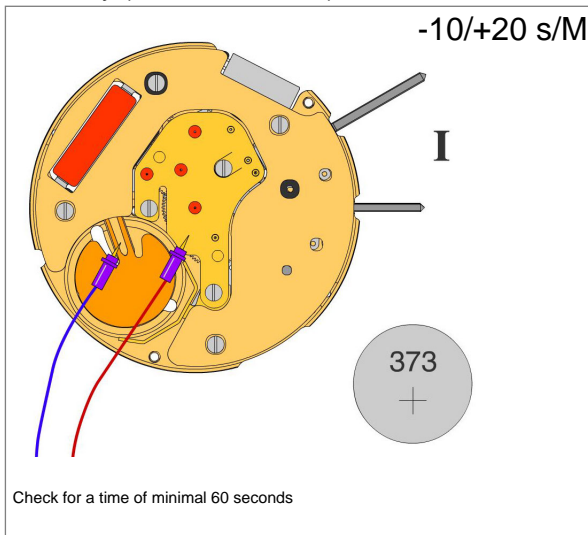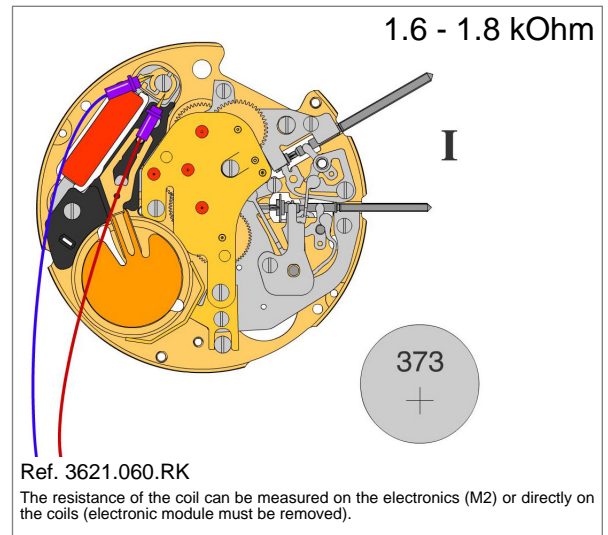
Electrical checking

Coil insulation

... kOhm

I

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+

indefinite high

The resistance between each coil and +pole must be measured (electronic module must be removed)
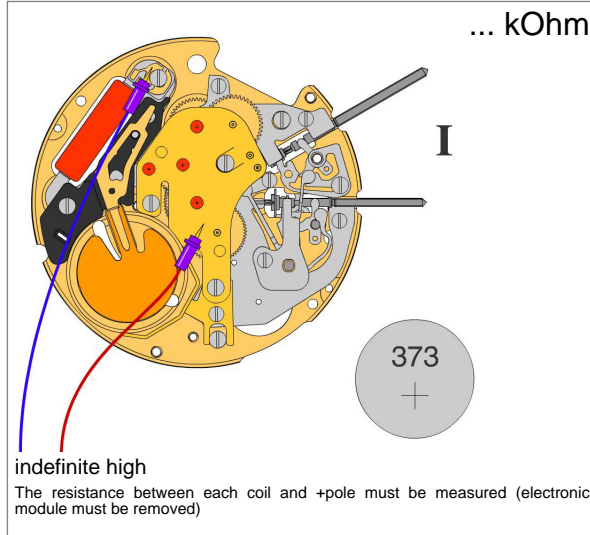
Accelerated test of movement

1.55 V

I

373
+

8 steps / sec.

To activate this test mode, the corresponding test point must be connected to the -Pole