UHRENBAUSATZ

Mechanica M1 Carbon
- Limited Edition -

Supplementary assembly instructions for "The clock book"

The Mechanica M1 Carbon with moon phase is an exclusive model limited to 50 pieces. Due to the additional components, the assembly differs from “The clock book” in certain places. Therefore, please refer to the supplementary assembly instructions.

Moon phases module

Parts

Zip bag 1 *Compartment 11*

- ✔ Driving wheel pillar
- ✔ Cylinder-head screw M2 x 4
- ✔ Moon wheel pillar
- ✔ Cylinder-head screw M 2 x 4

Zip bag 2 *Compartment 11*

- ✔ Jumper spring stud
- ✔ Jumper spring
- ✔ Cylinder-head screw M2,5 x 16

Zip bag 3 *Compartment 11*

- ✔ Driving wheel
- ✔ Cylinder-head screw M1,4 x 3
- ✔ Moon driving wheel

THE ASSEMBLY OF THE MOON PHASE DISPLAY

Parts from zip bag 1, compartment 11 and from compartment 24

Please assemble your Mechanica as described in the book. The first difference can be found on page 47 of the book. It should be noted here that the following pillars are screwed in the correct positions from the inside (see figure 1):

1. Intermediate wheel pillar with cylinder-head screw M2 x 4 *Compartment 24*
2. Driving wheel pillar with cylinder-head screw M2 x 4 *Sachet 1, compartment 11*
3. Moon wheel pillar with cylinder-head screw M2 x 16 *Sachet1 , compartment 11*

Caution:
The pillars look very similar, please pay close attention to the correct placement.

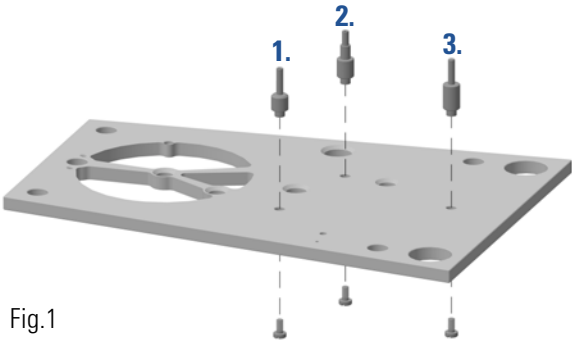

Fig.1

Now follow the assembly instructions in "The clock book" up to page 52, „Assembling the motion work". It is important here that the canon pinion with counter weight are mounted first and then the intermediate wheel with the cylinder head screw M1.4x4 (see figure 2).

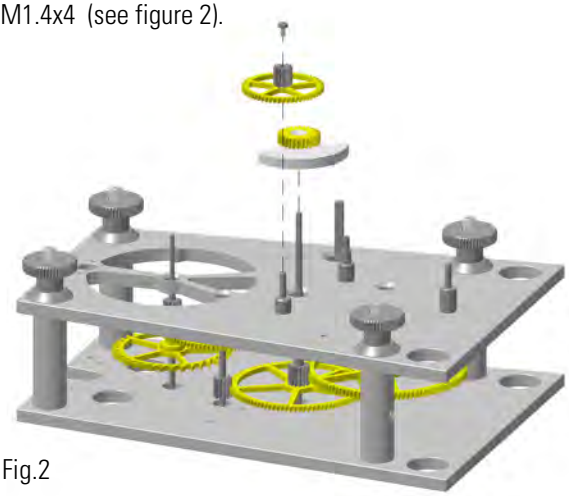

Fig.2

Parts from zip bag 2, compartment 11

In the next step, the jumper pring stud is screwed to the jumper spring in the correct position and alignment (see figure 3). Also note the correct positioning of the spring stud and the jumper spring, the built-in dowel pin will help you here.

Please note that the jumper spring is pre-bent in order to ensure reliable function and therefore it must not be bent. Both parts are now screwed onto the front plate with the enclosed M2.5 x 16 cylinder head screw.

To check, please compare the installed parts with figure 3.

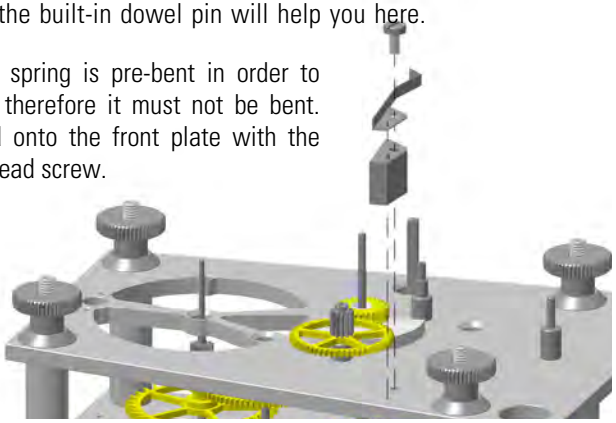

Fig.3

Now follow the normal assembly instructions again from the point "Adjusting the minute hand" on page 53 to page 63.

Parts from zip bag 3, compartment 11

Before the chapter “Fitting the standard dial”, the remaining components of the moon phase module should be now assembled. (figure 4).

Please proceed in the following order:

1. Install the hour wheel with hour wheel pipe
2. Install and screw the driving wheel with cylinder head screw M1,4 x 3
   Caution: the driving pin must point upwards
3. Install the moon wheel

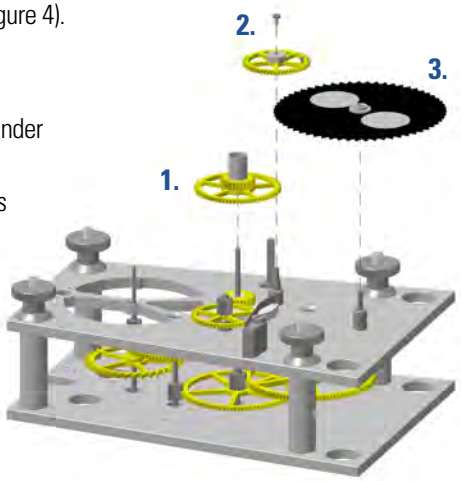

Fig.4

When installing the moon wheel, please ensure that the drivinging pin of the driving wheel is exposed and is not clamped by the moon wheel.

It is also important to ensure that the jumper spring rests against the circumference of the moon wheel. It must not be under or over the wheel. Please also check that the jumper spring positions the moon wheel precisely, i.e. that the spring always touches two teeth of the moon wheel at the same time. (see figure next to)

Function check

Before you continue with the assembly of the dial, you should check the correct function of the moon phase. Please place the minute hand on the center wheel arbor. Now carefully turn the hand clockwise. The driving pin of the driving wheel should now engage in exactly one tooth of the moon disc wheel and advance it by exactly one graduation, The jumper spring must precisely allow this driving process through its geometry.

Please continue on page 63 of the instructions, but with the numbered special dial, go to page 66.

Aligning the hands

If you have now set all hands as described, the moon phase operation must be checked. To do this, follow these steps:

Now turn the minute hand clockwise until the moon phase disc begins to turn. Now set the minute hand to the full hour. Hold the minute hand and turn the hour hand to the "1 o'clock" position. It is now guaranteed that the operation of the moon (duration approx. 2 hours) can take place at night and that you always have the correct moon phase in view during the day.

Set the moon phase

To set the moon phase, reach behind the dial at the 6 o´clock position and turn the moon phase wheel to the desired position.