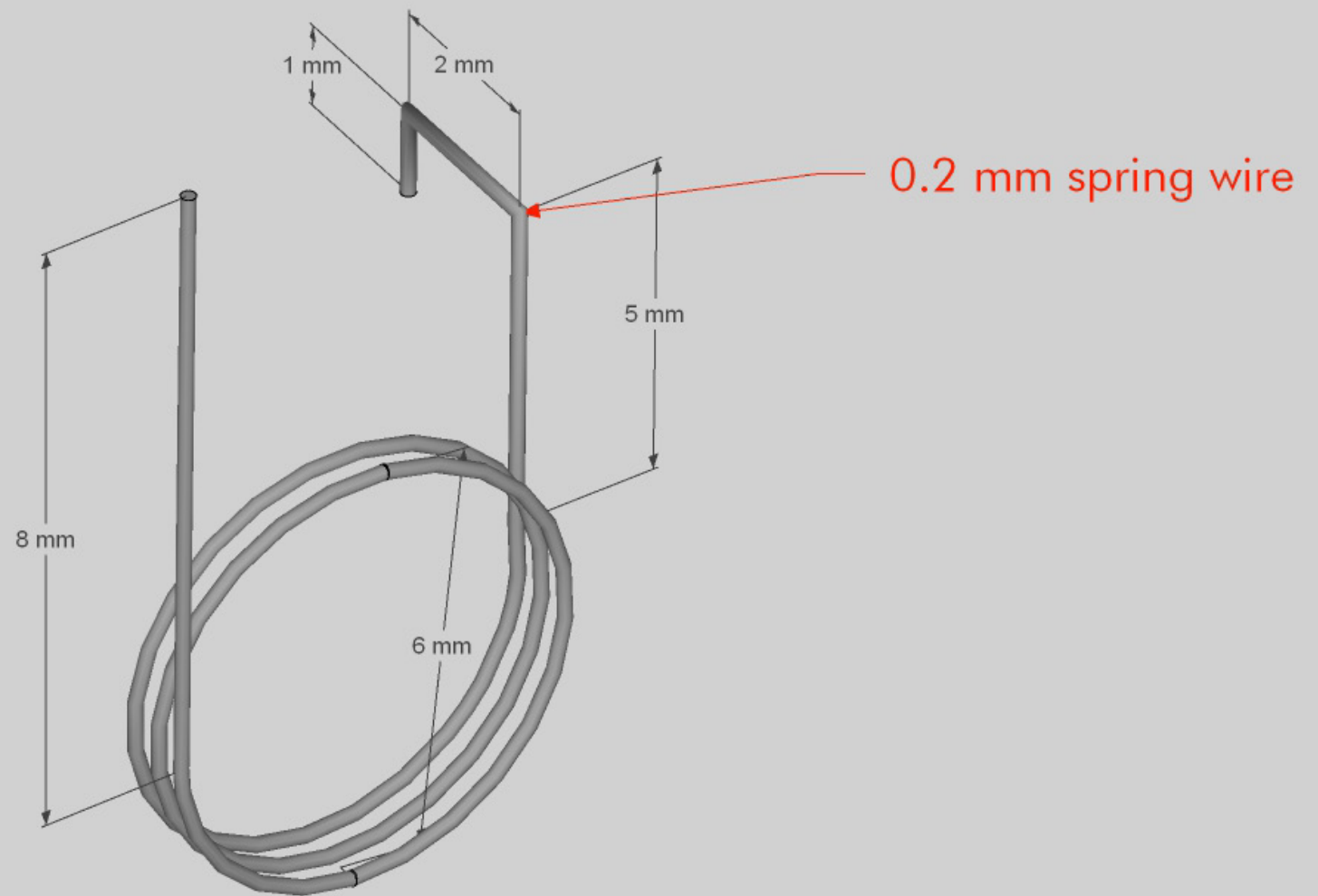
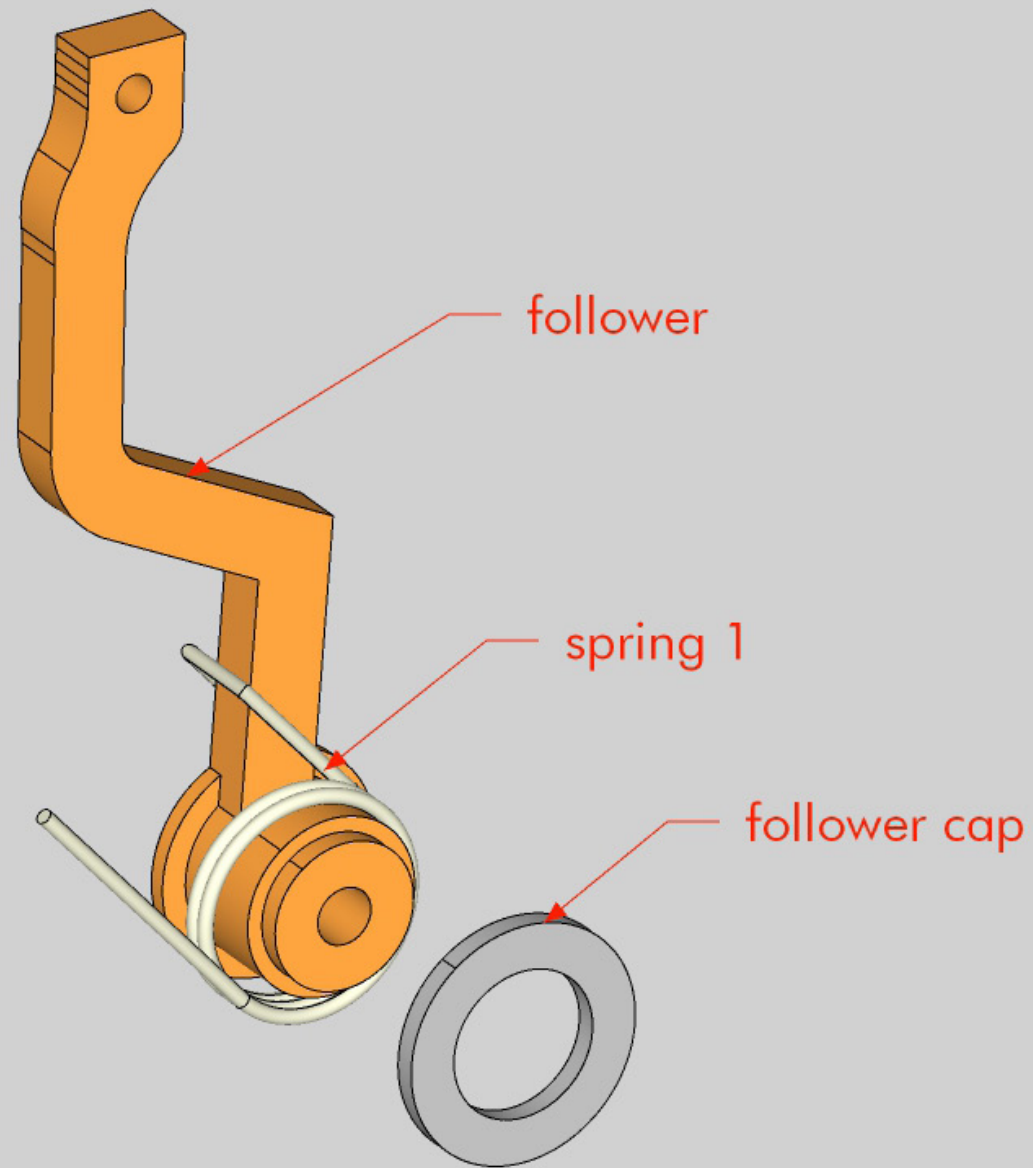
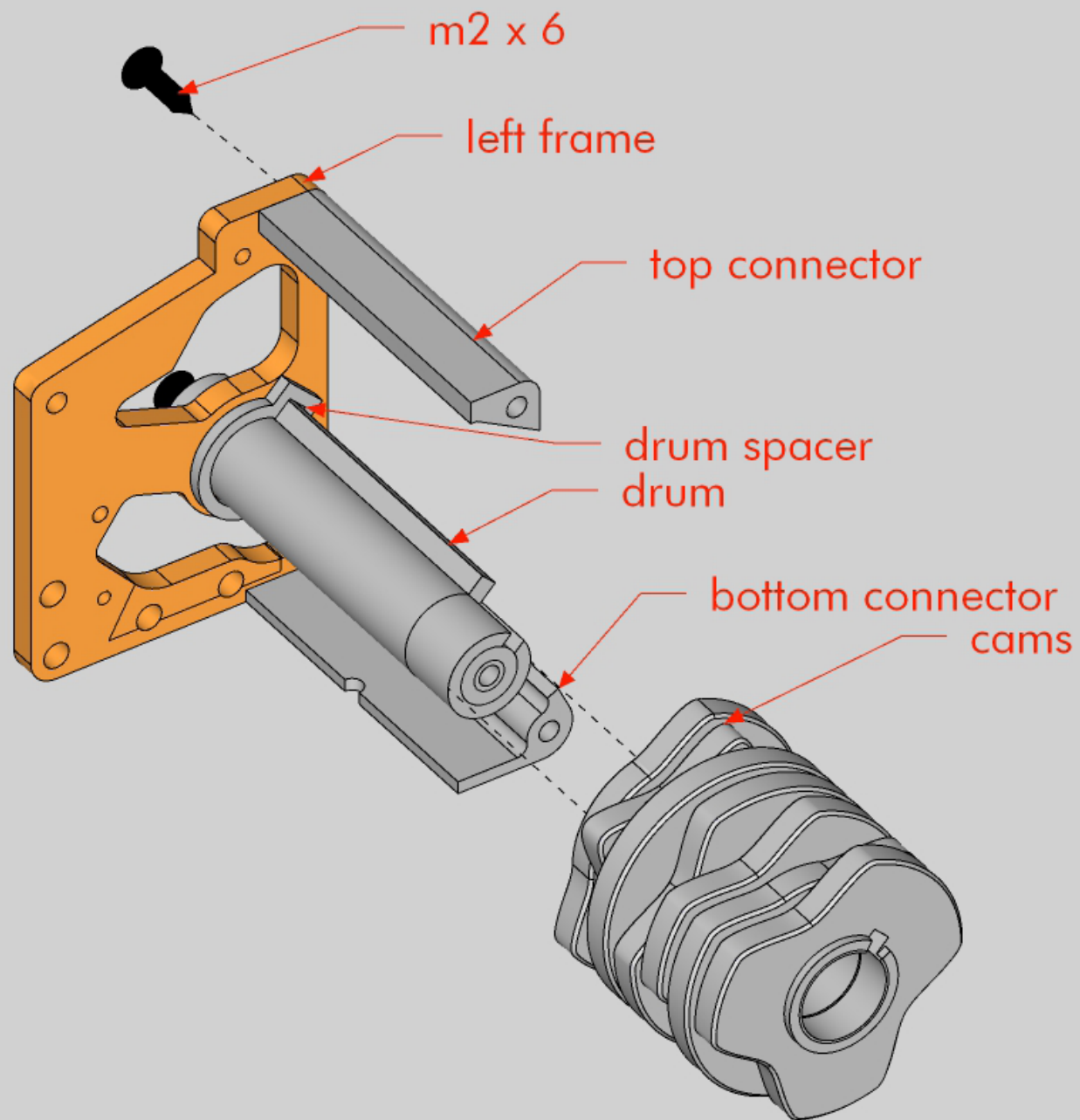


STEP 1 : Bend 0.2 mm diameter music/spring wire to form the hooks. 7 are needed

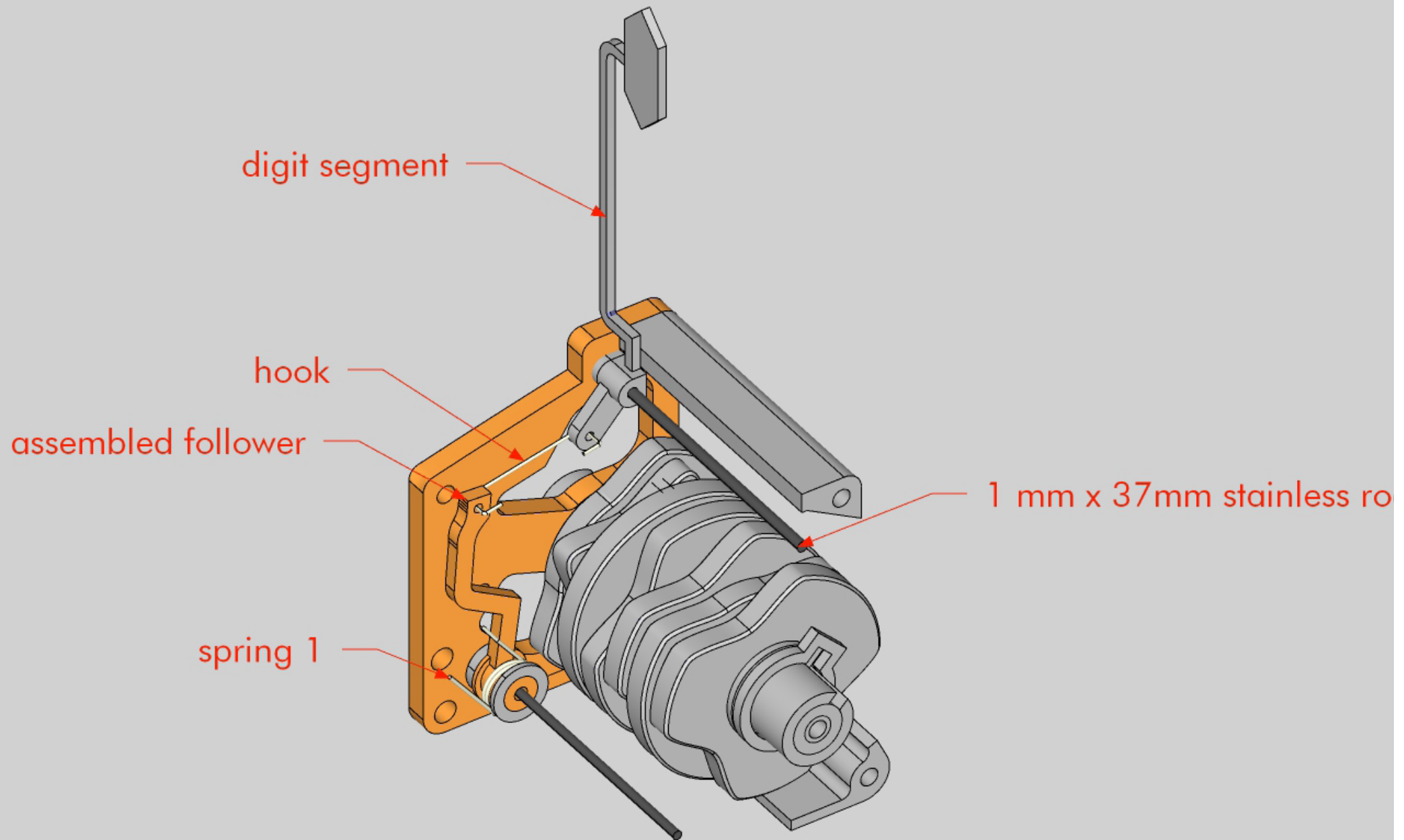




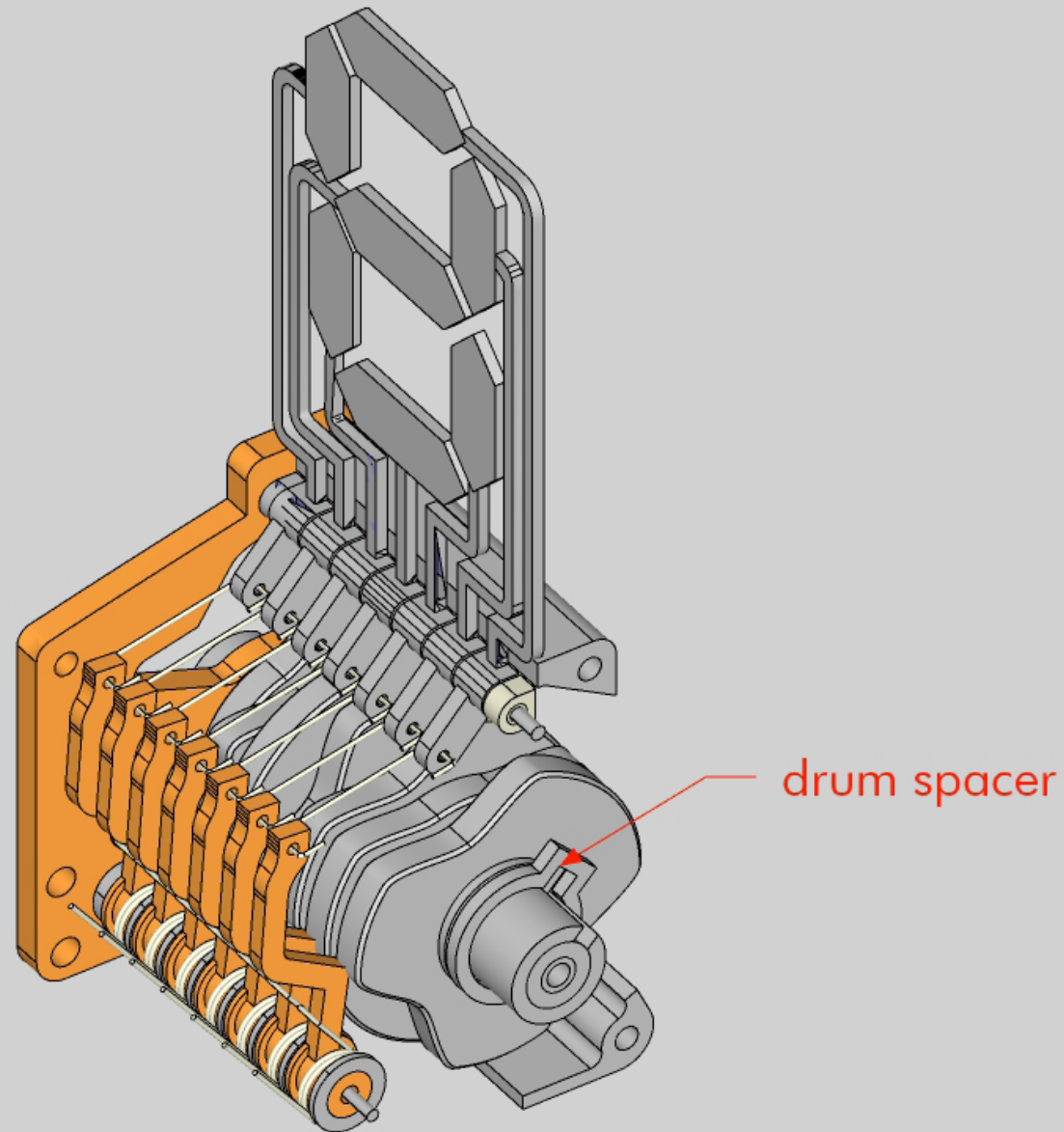
STEP 3 : Assemble the 7 followers by adding the spring and glueing the cap with super glue



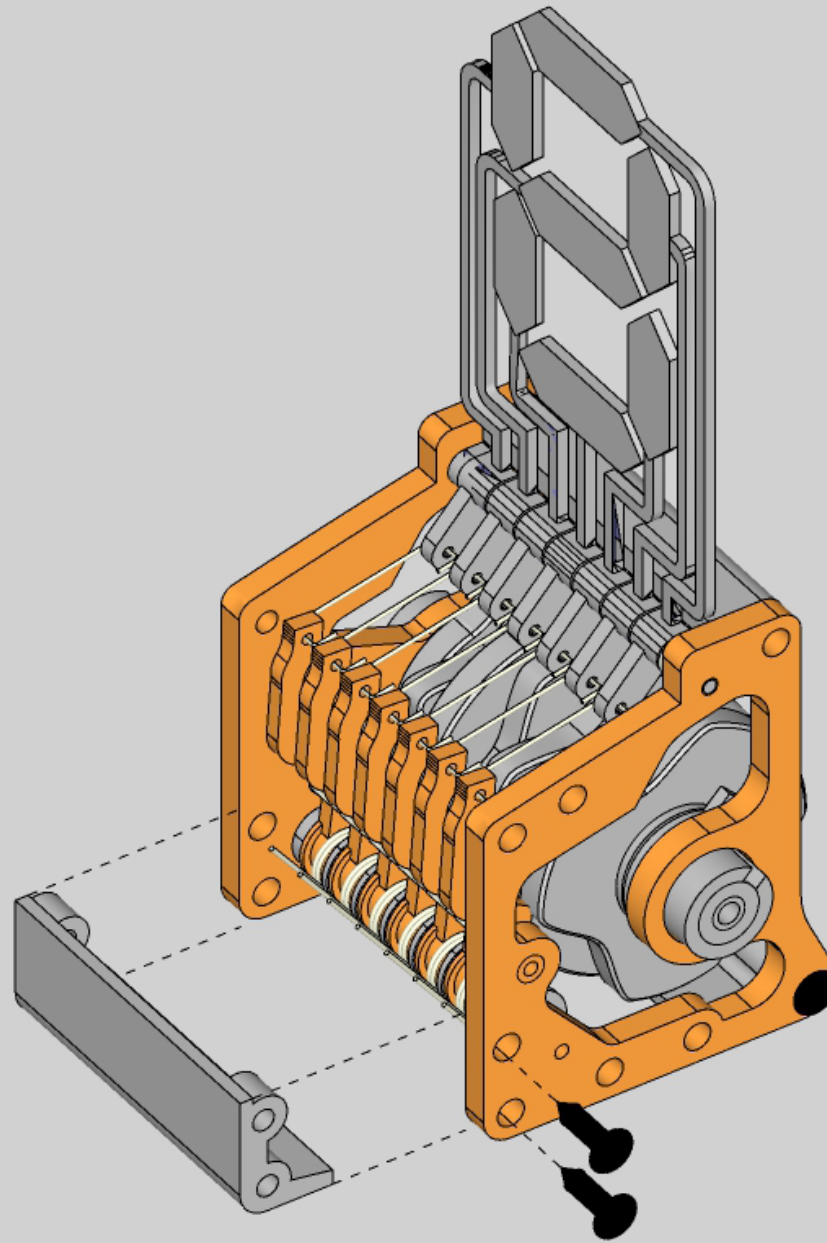
STEP 4 : Assemble the left side by first screwing on the connectors using M2X6 mm self threading screws. The insert the cams on the drum in the correct sequence with 1 on the left side and 7 on the right side.



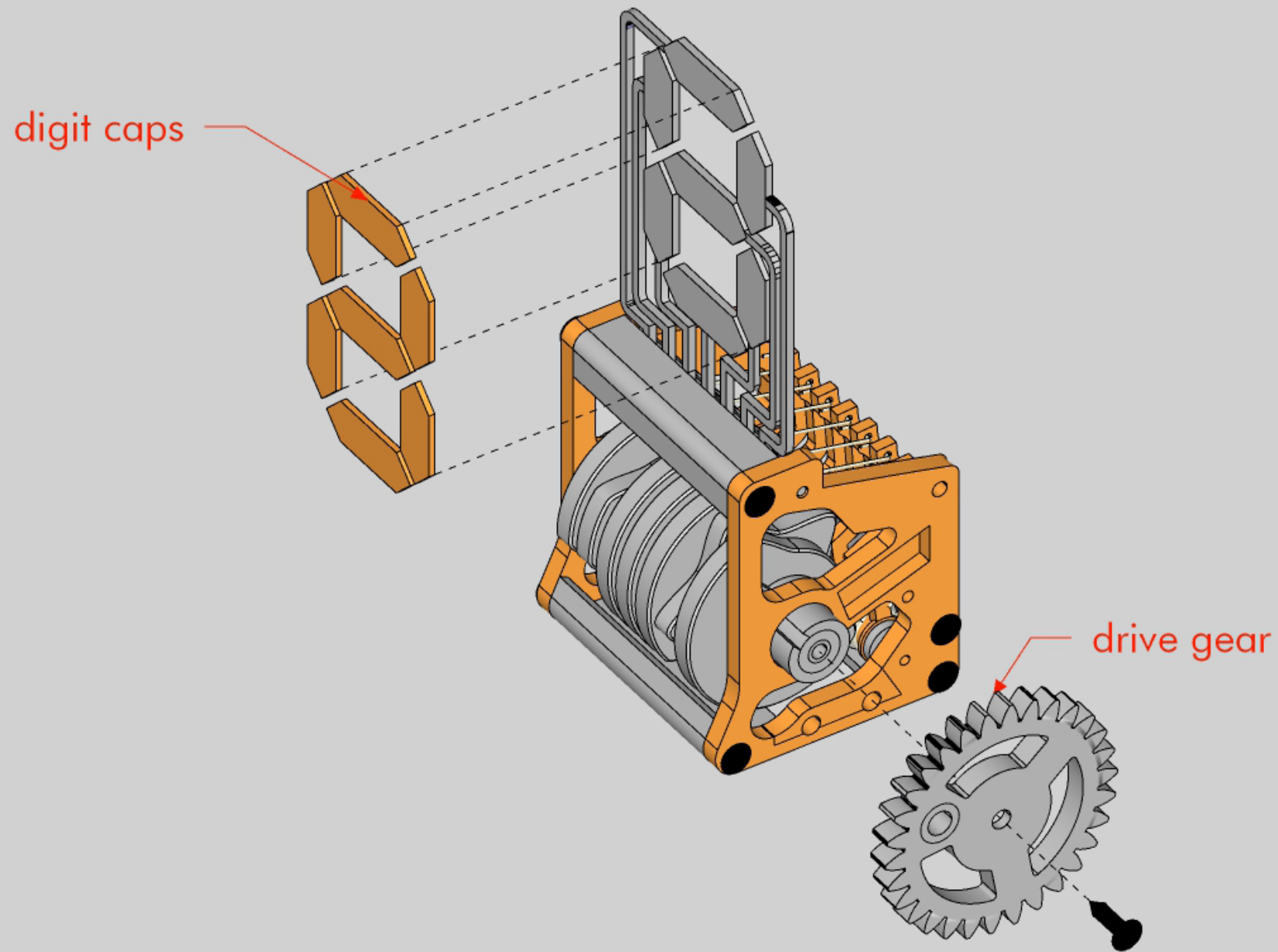
STEP 5: Next first insert the rods in place and then add the followers and segments one by one in the correct order. The segments are printed in place and are stuck together. The segments need to be carefully separated without breaching them.



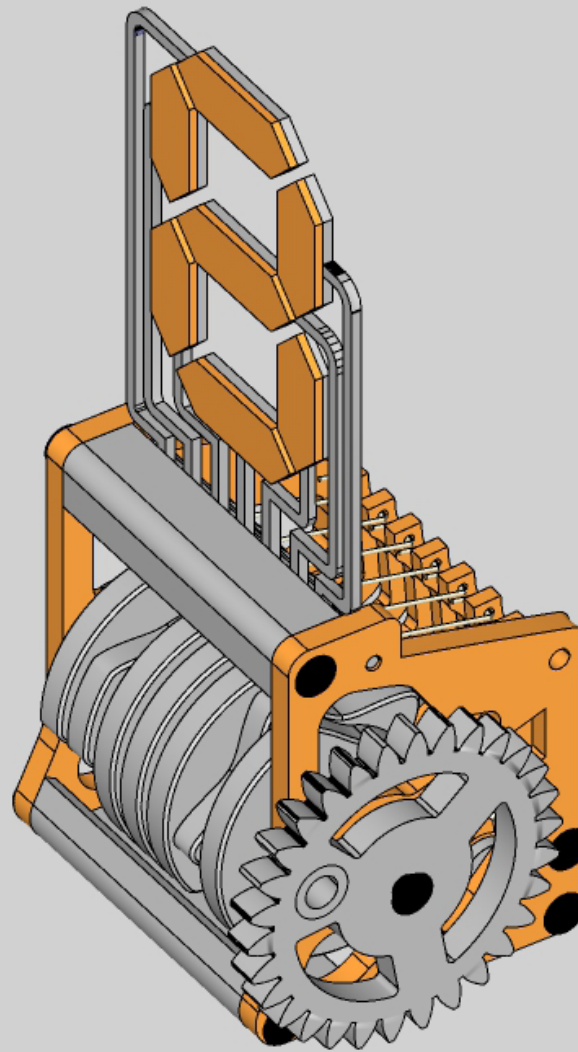
STEP 6 : Add the drum spacer at the end before adding the right side frame.



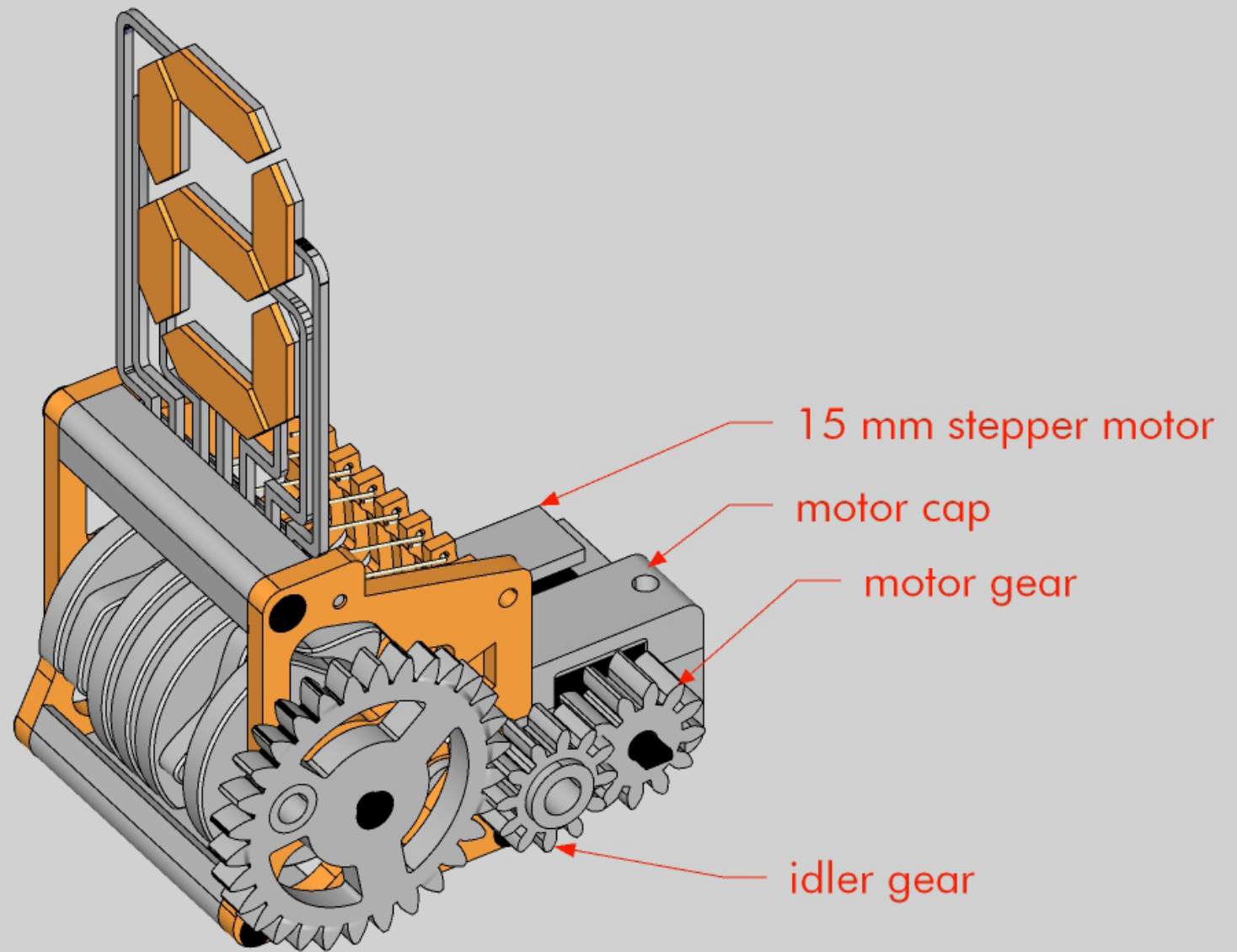
STEP 7: Close it with aligning the rods and the right side frame and screwing it with the 2 M2 screws. The connectors need to be realigned as they can rotate easily. Add the back connector and screw it on (this is optional and can be replaced with the motor box as needed).



STEP 8: Glue the digit caps with either double sided tape or a slow setting glue as it takes time to line them up properly. Attach the drive gear to the left side.



STEP 9: This is the completed unit and can be used as demo to move manually.



STEP 10: The 15mm geared stepper motor can be added on the back to control it with a micro controller. For this the back connector need to be replaced by the motor box.