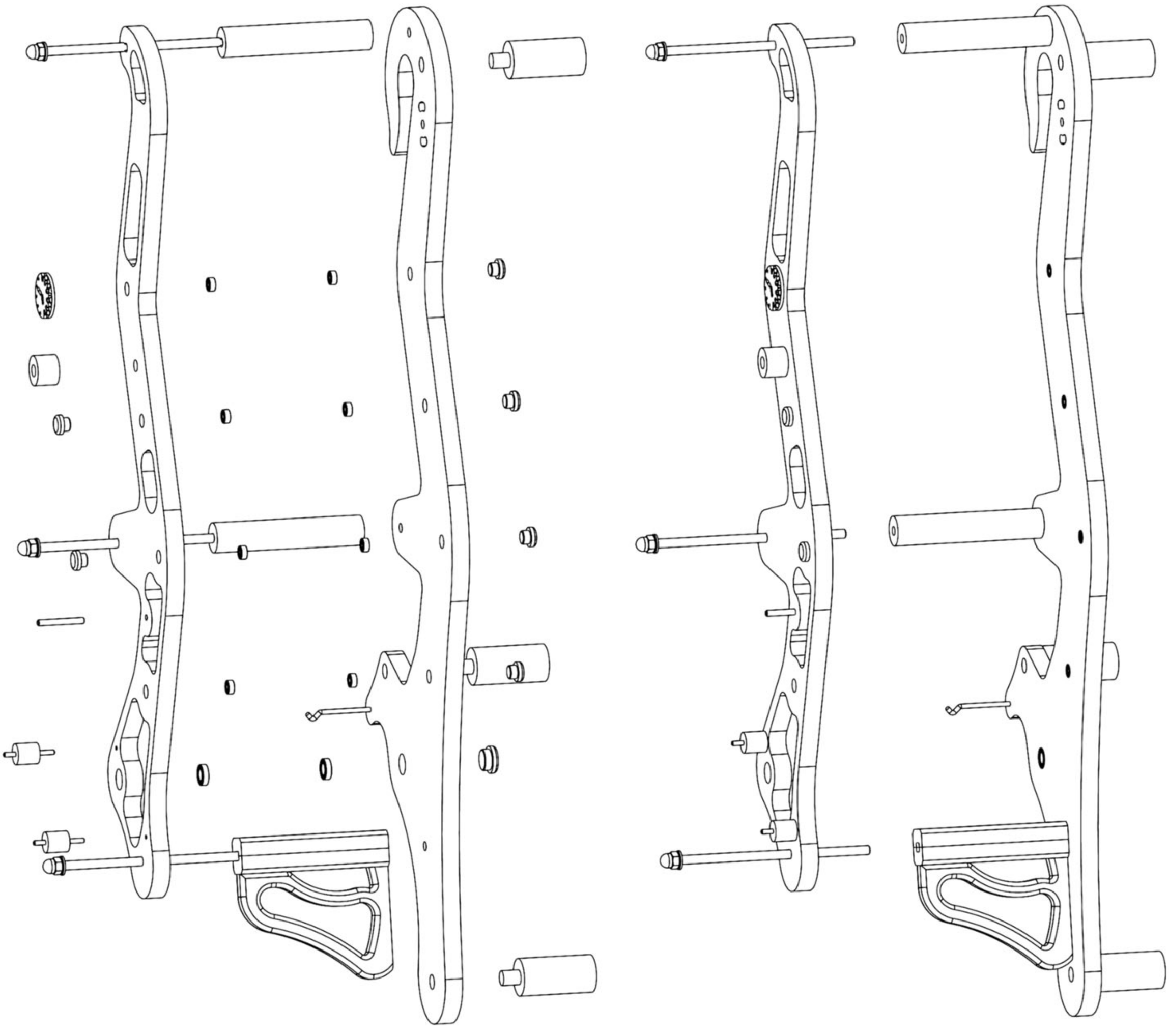
Brian Law's Wooden Clock 23 - Crooked Clock Assembly Sequence

Stage 1 Assemble and glue all frame parts



First stage is to fix and glue all the parts that are attached to the Front and Back frames.The bearing can be a tight press fit or be glued in place with Loctite.The Brace and the Spacers are glued to the Back Frame only.
The wall spacers can be a tight fit in the Back frame or they can be glued. Fit all pins threaded rods and nuts and wasers shown.

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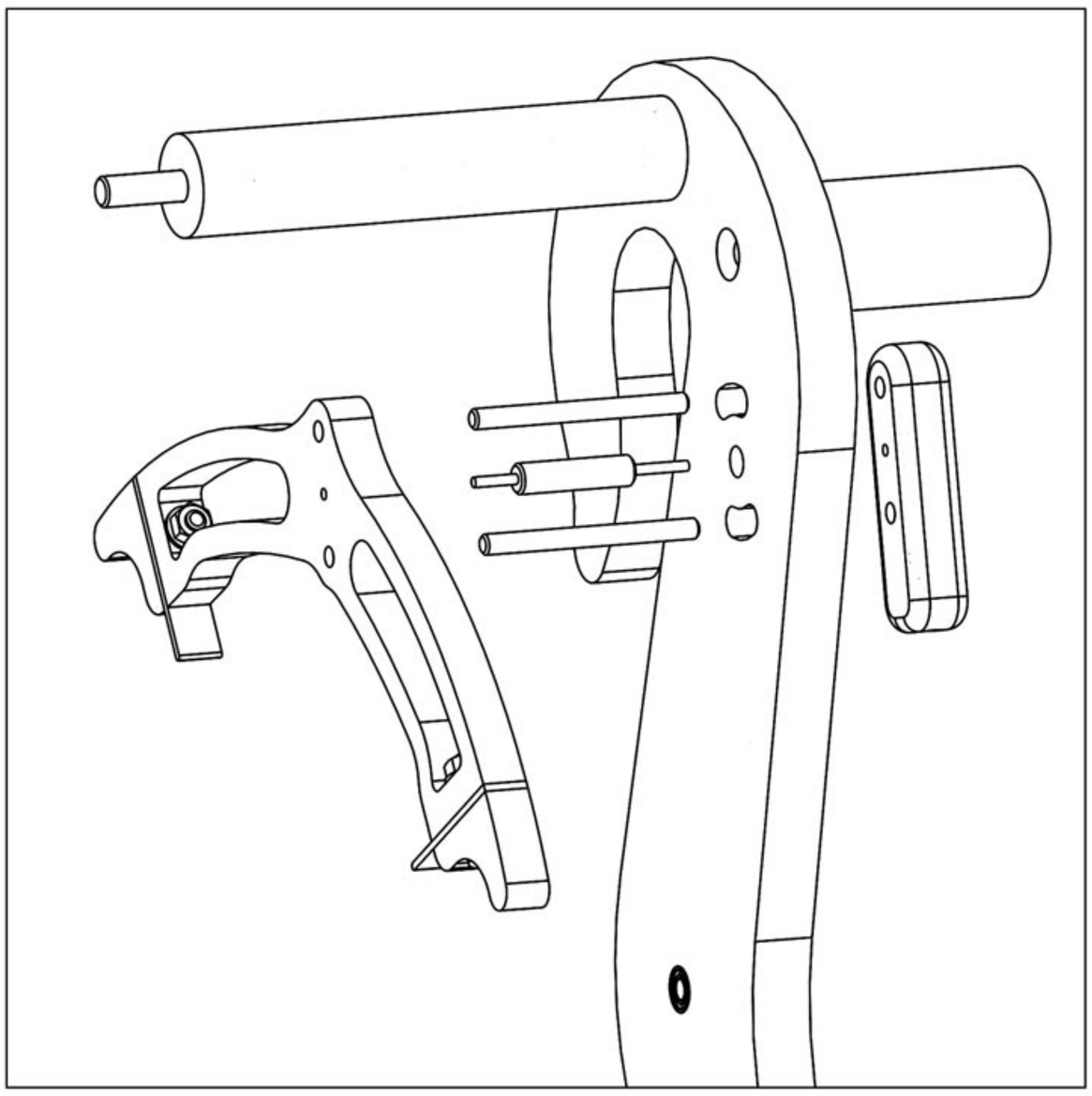
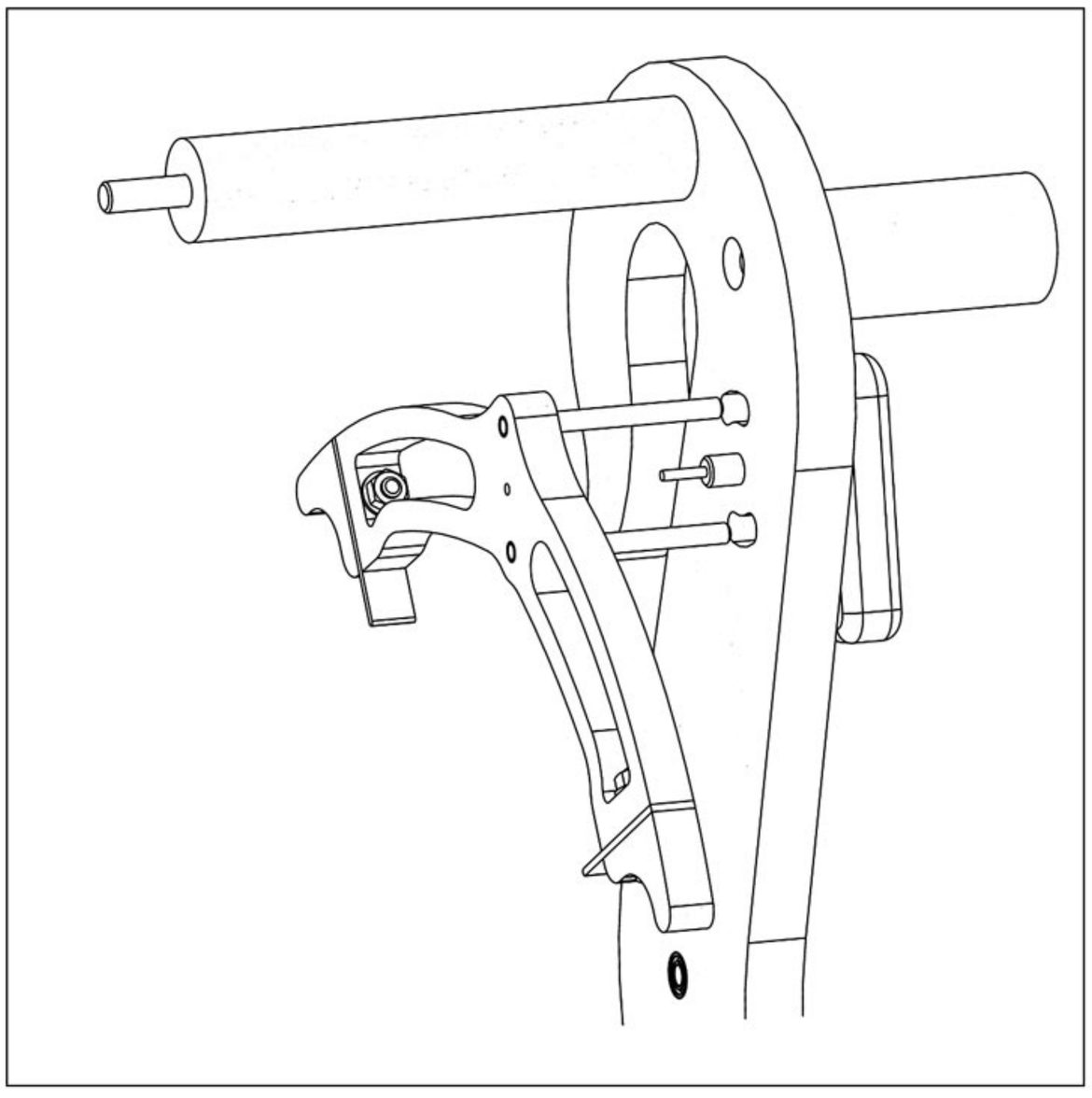
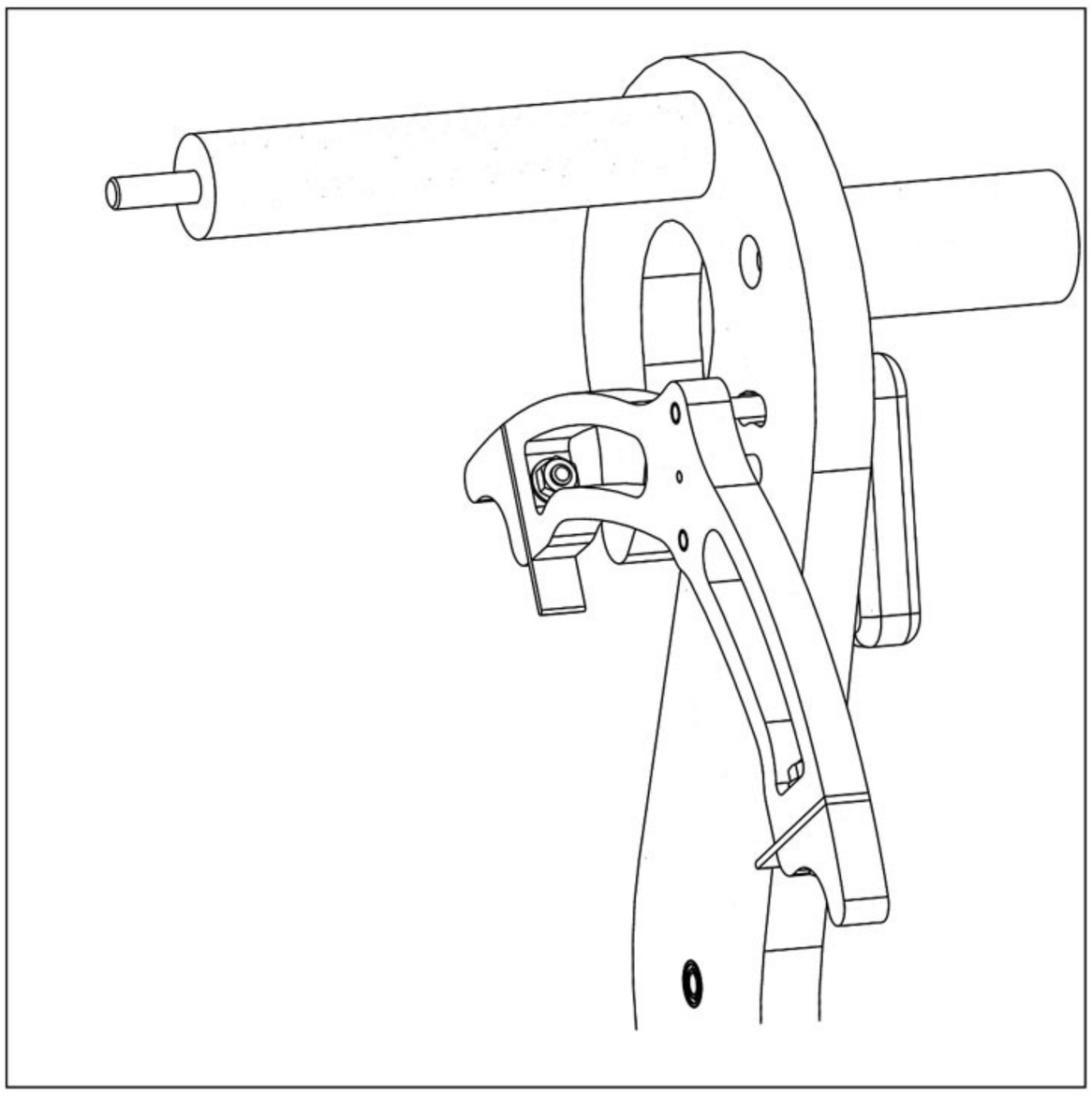
Stage 2 Assemble all Escapement and Pendulum pivot block parts







Pre Assemble the the Pallets to the ends of the Escapement using the clamp pads and nuts and bolts.
Now fit the 2 Tie rods into the back of the Escapement and the Pivot pin into the Back frame.
Now push the Escaoement and its 2 tie rods through the the back frame locating the escapement on the pivot.
Finally push the Pendulum Pivot Block onto the ends of the Tie Rods and the push all the way home.
The assembly should rock freely on the pivot, if not dis-assemble and open out the pivot holes in the Escapement and the Pendulum Block

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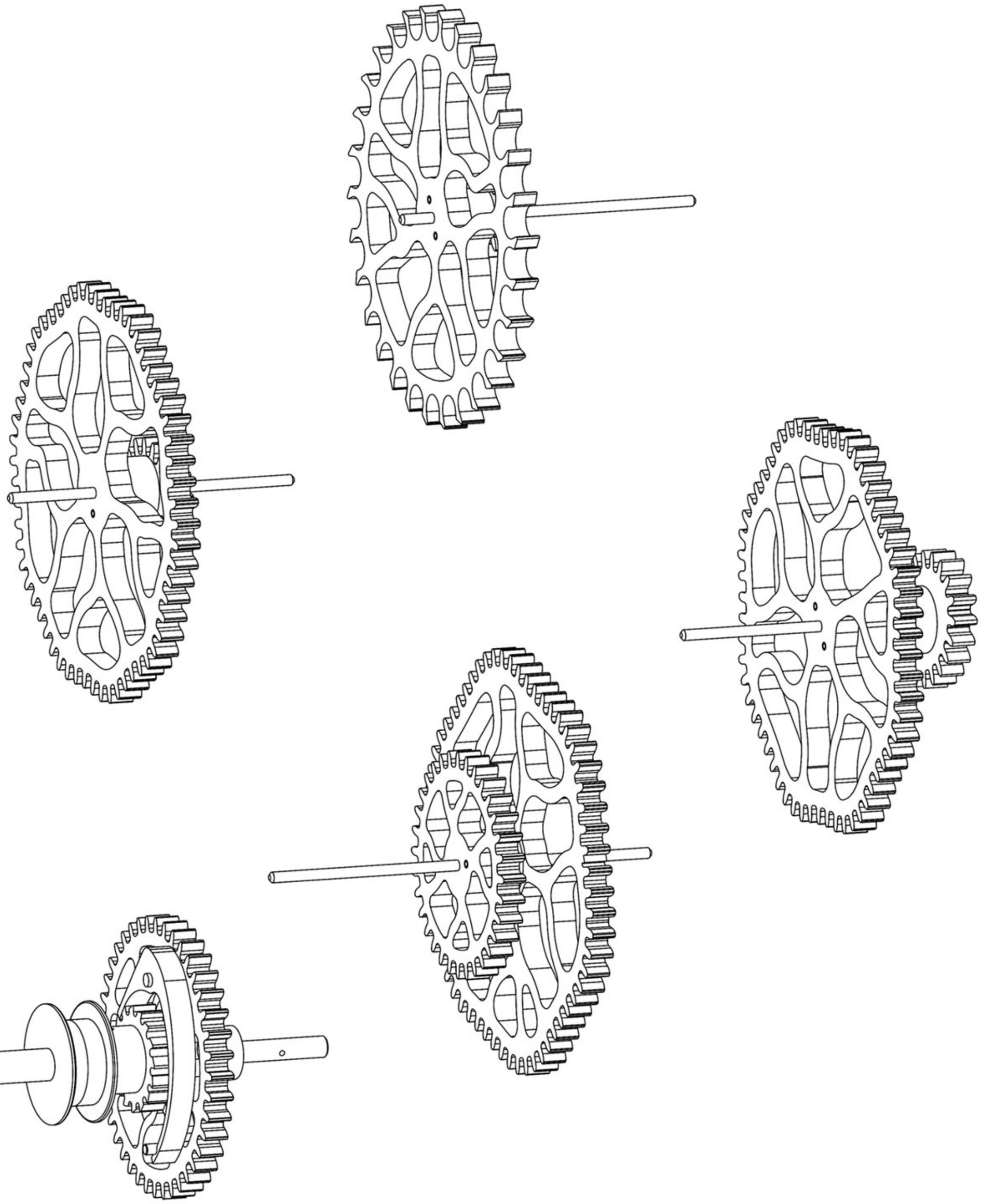
Stage 3 Assemble all Drive train sub assemblies



Assemble all Gear train Sub assemblies in accordance with the dimensions shown on the drawing Sheet .
The Drive gear train shown at the bottom should have all the parts apart from the gear pinned to the shaft, the gear should turn freely and only be constrained by the ratchet from turning backwards.
The other three assemblies should have the parts a tight fit on the shaft.

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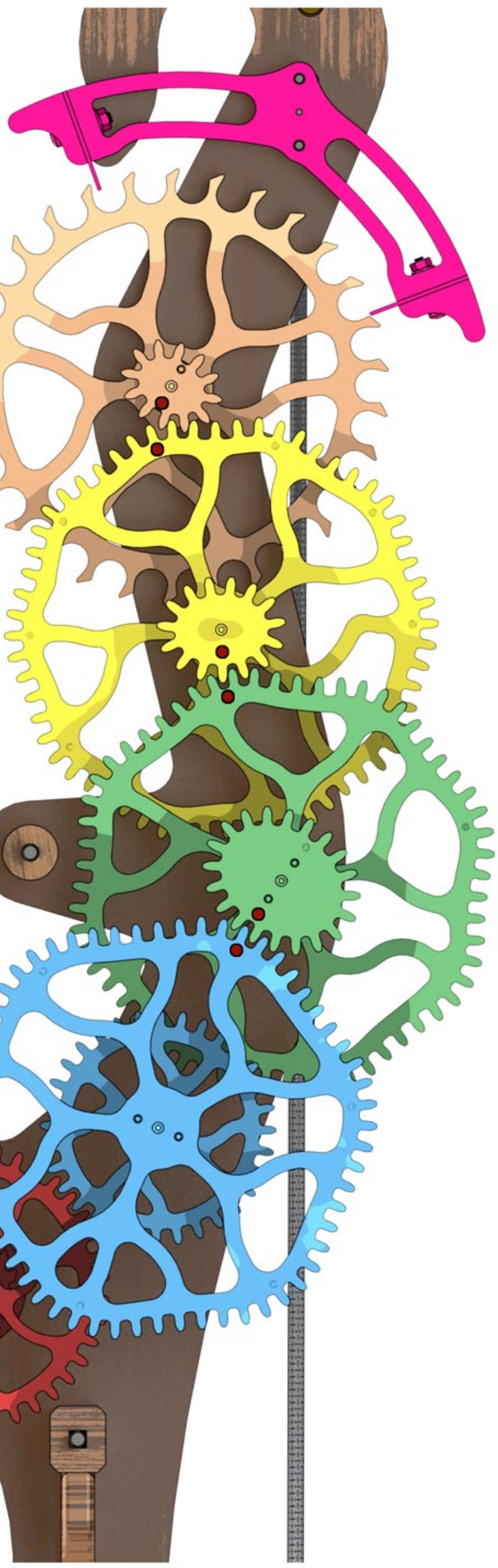
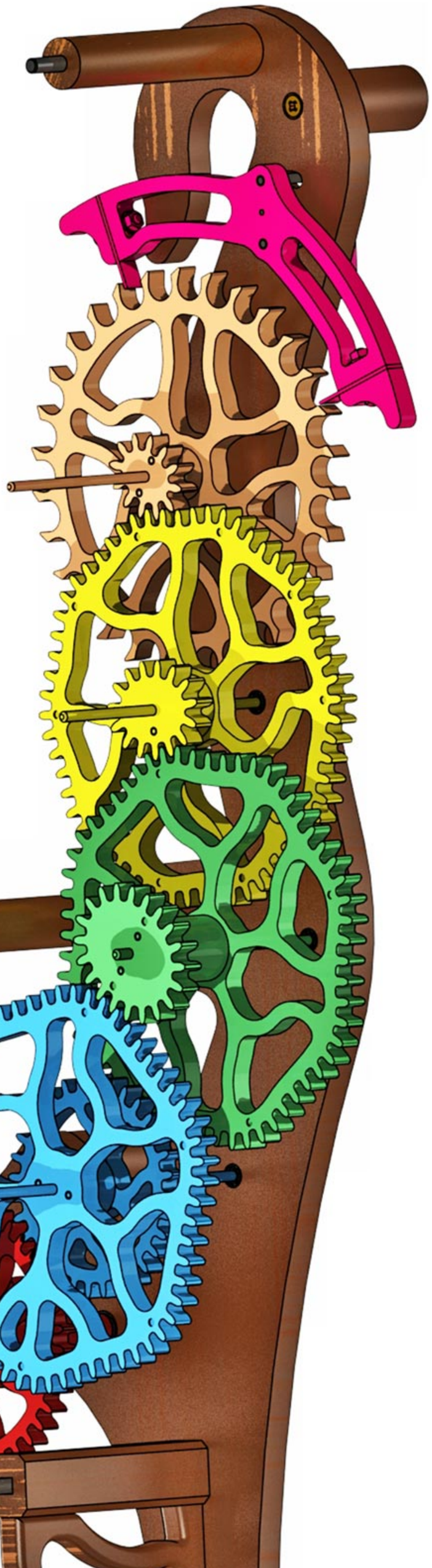
Stage 4 Assemble all Drive train to Back frame





Fit the drive train gear sub assemblies to the back frame starting
at the top with the Orange gears.
Note the alignment of the red dots on the mating gears,
If you don’t line these up correctly then the gear train will not work.

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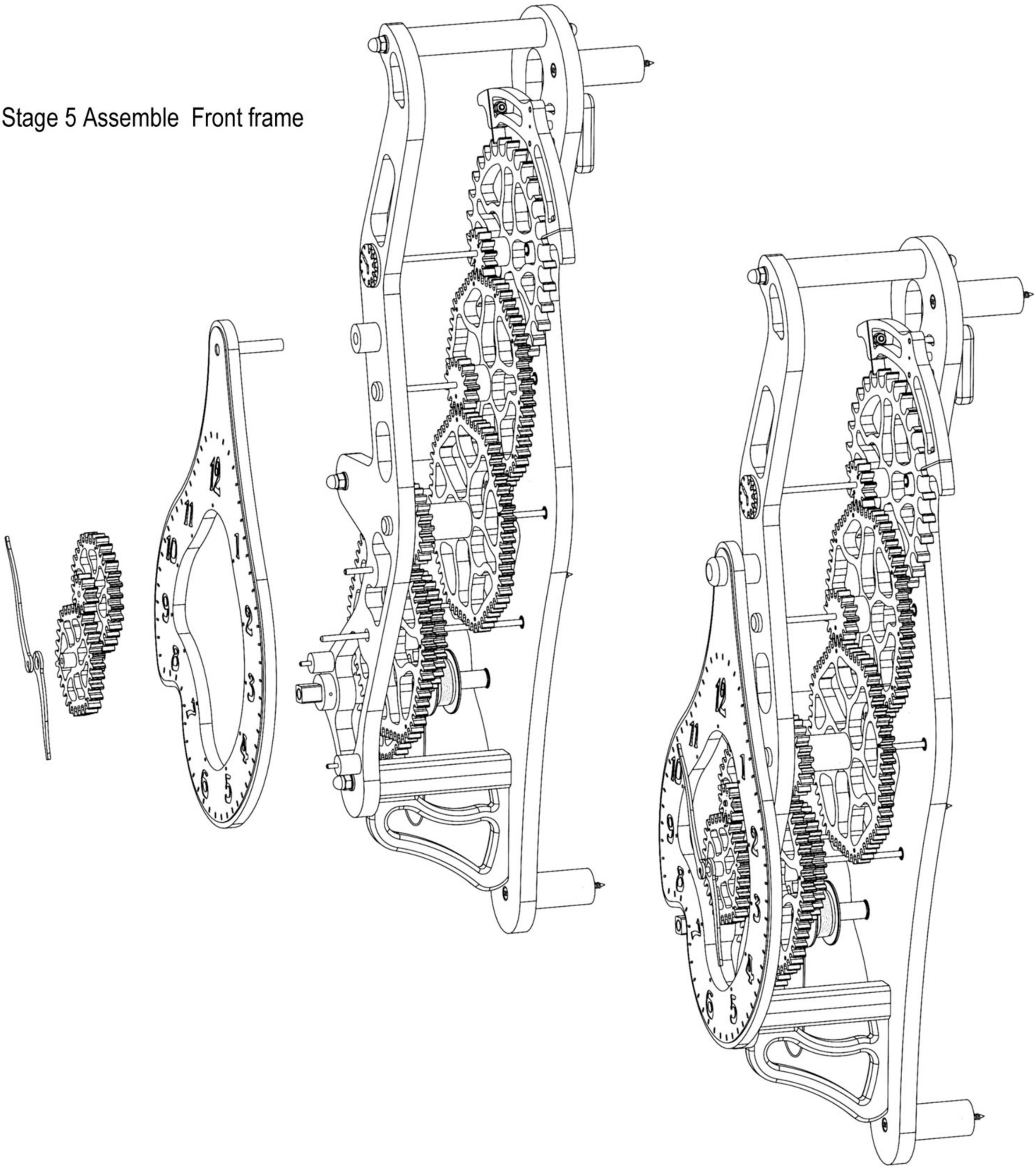
Stage 5 Assemble Front frame



Fit the front frame taking care to align all of the shafts with the bearings and press down until the frame toushes on the frame spacers. Secure with dimed nuts and washers onto the threaded rods passed through the Frame spacers. The squre ended winder stub should be fitted to the end of the winder sub assembly after the front frame has been fitted, with a small 2mm pin. Fit pendulum, Hands and hour gears and mount on the wall .

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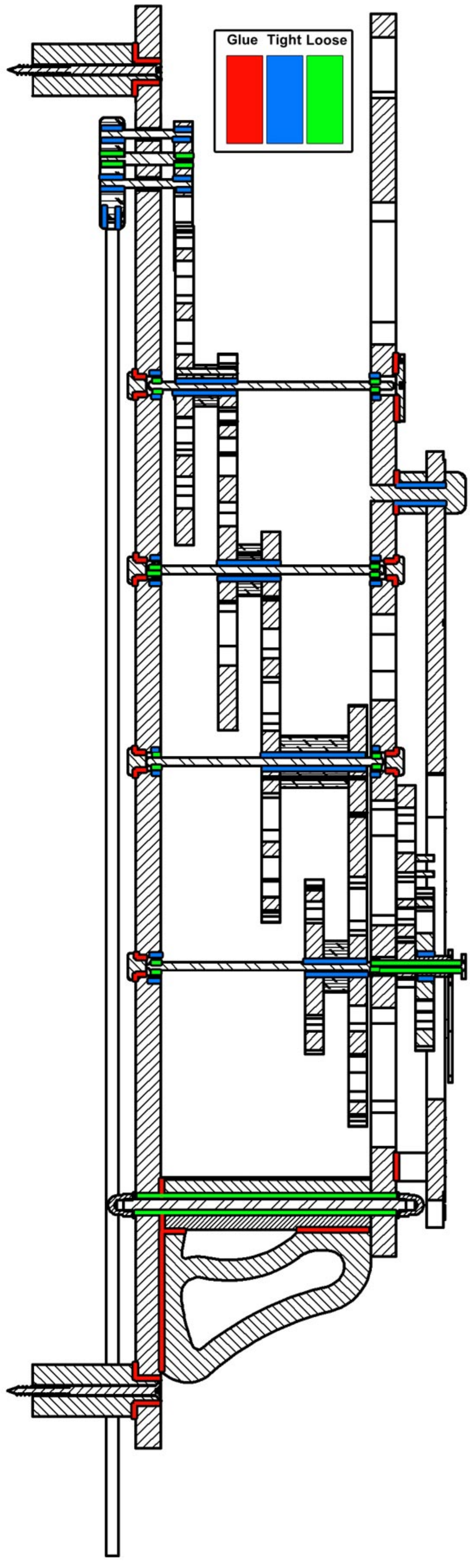
Stage 6 Typical fits required at all shafts.



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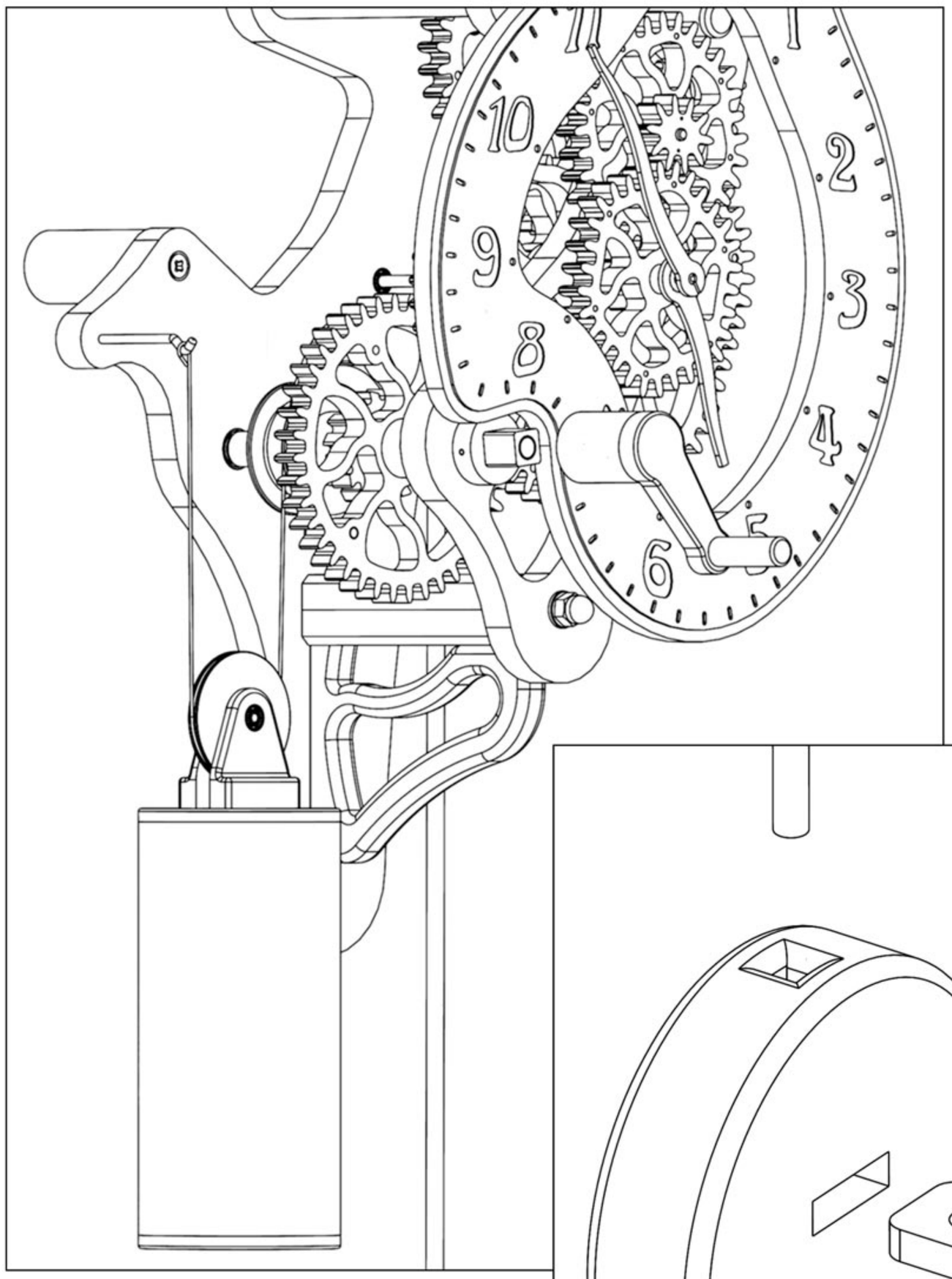
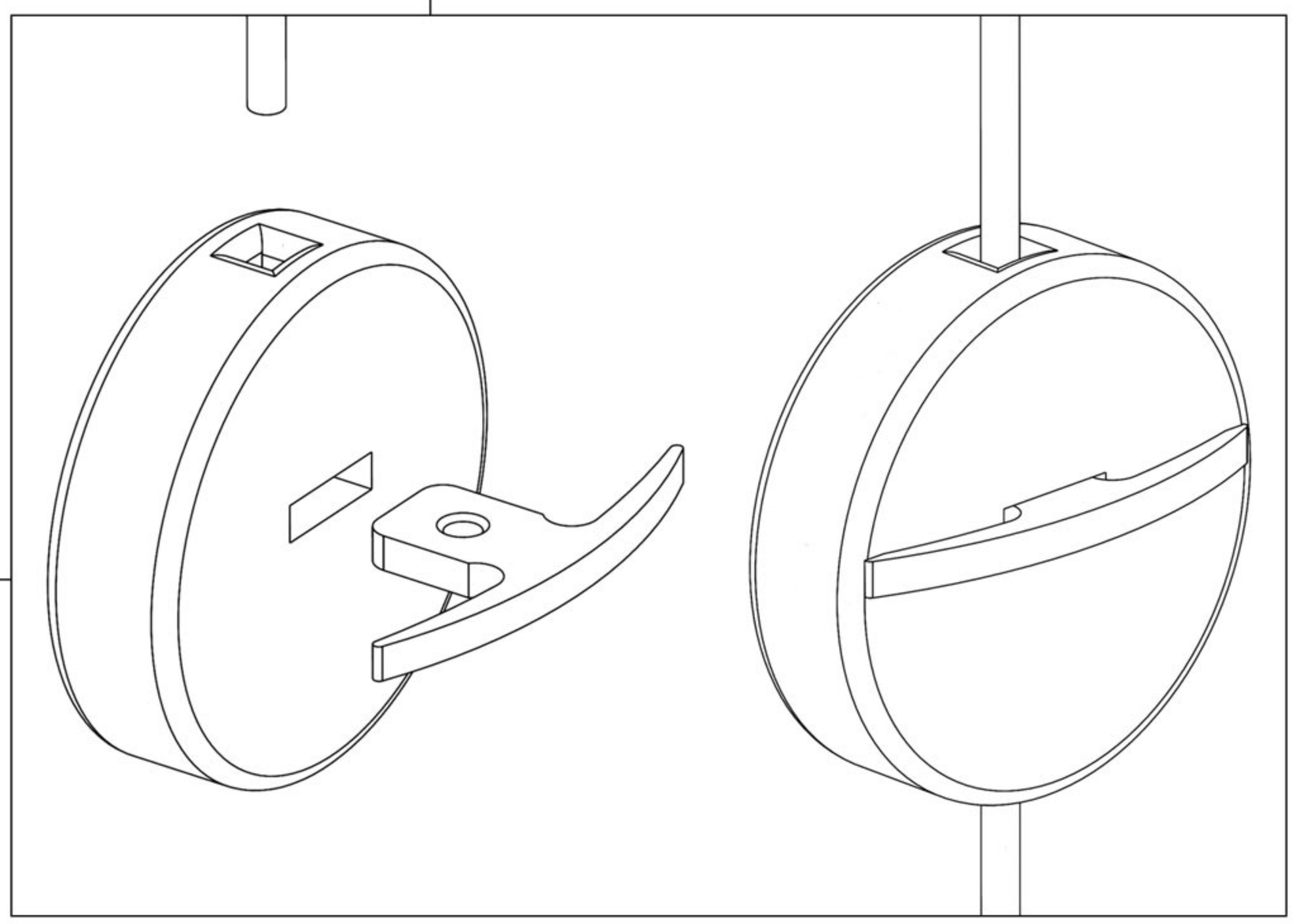
Stage 7 Assemble

Fit pendulum and mount on the wall .
Fit weight to cord wrapped around the drum and wind the clock, then set the pendulum swinging.
Adjust the Pallets to get the clock to tick evenly.
Fit the Punulum lock into the centre of the pendulum Bob, and slide onto the Pendulum Rod. You have to press the pendulum lock so it can line up with the rod before it will slip on. Chamfering the hole in the Pendulum lock will help this. The position of the Pendulum Bob can be adjusted by pressing the pendulum lock and sliding the Bob up, to speed up the clock and sliding down to slow it down.





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