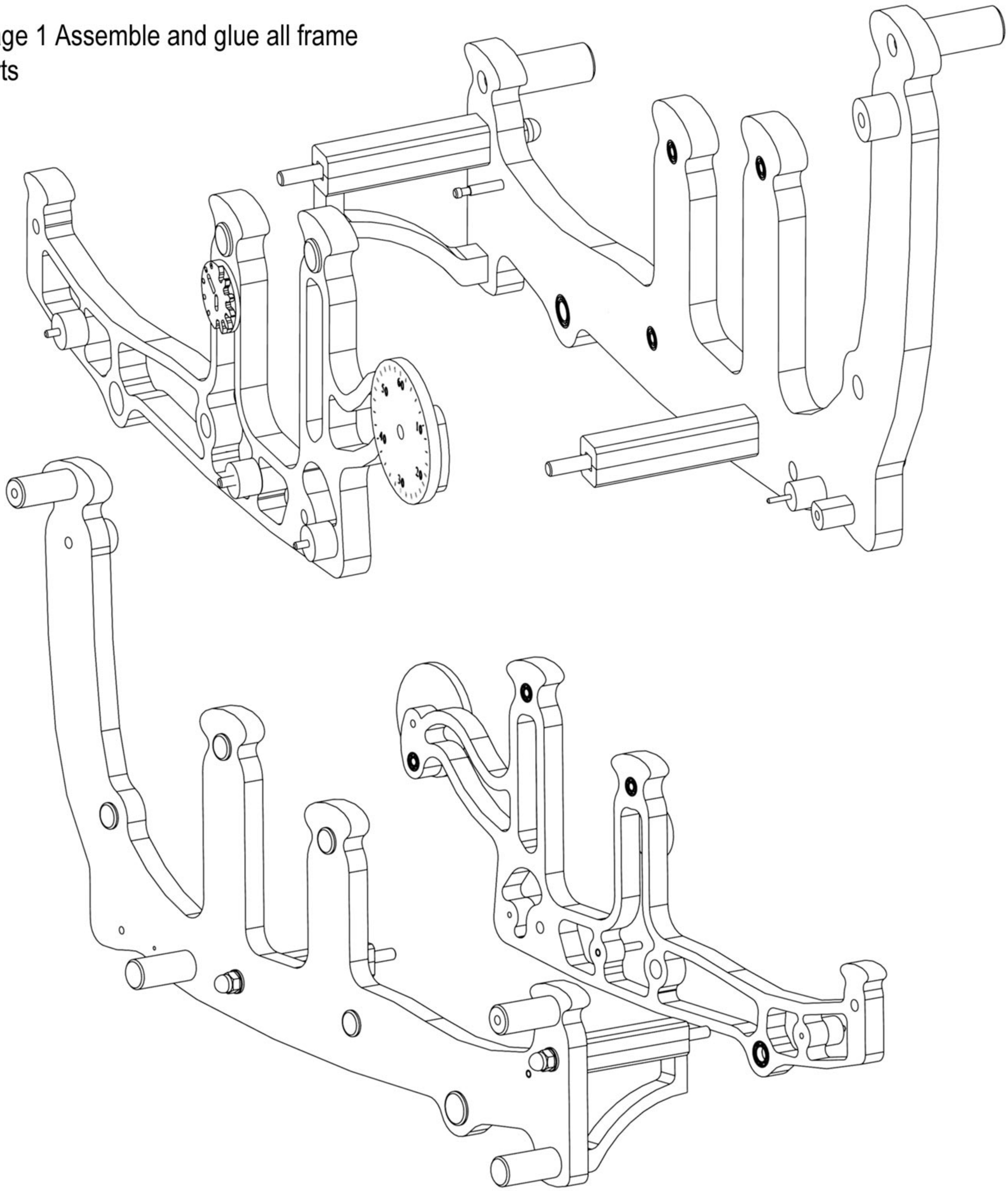
Brian Law's Wooden Clock 22 - Gravity Escapement ver 2 Assembly Sequence

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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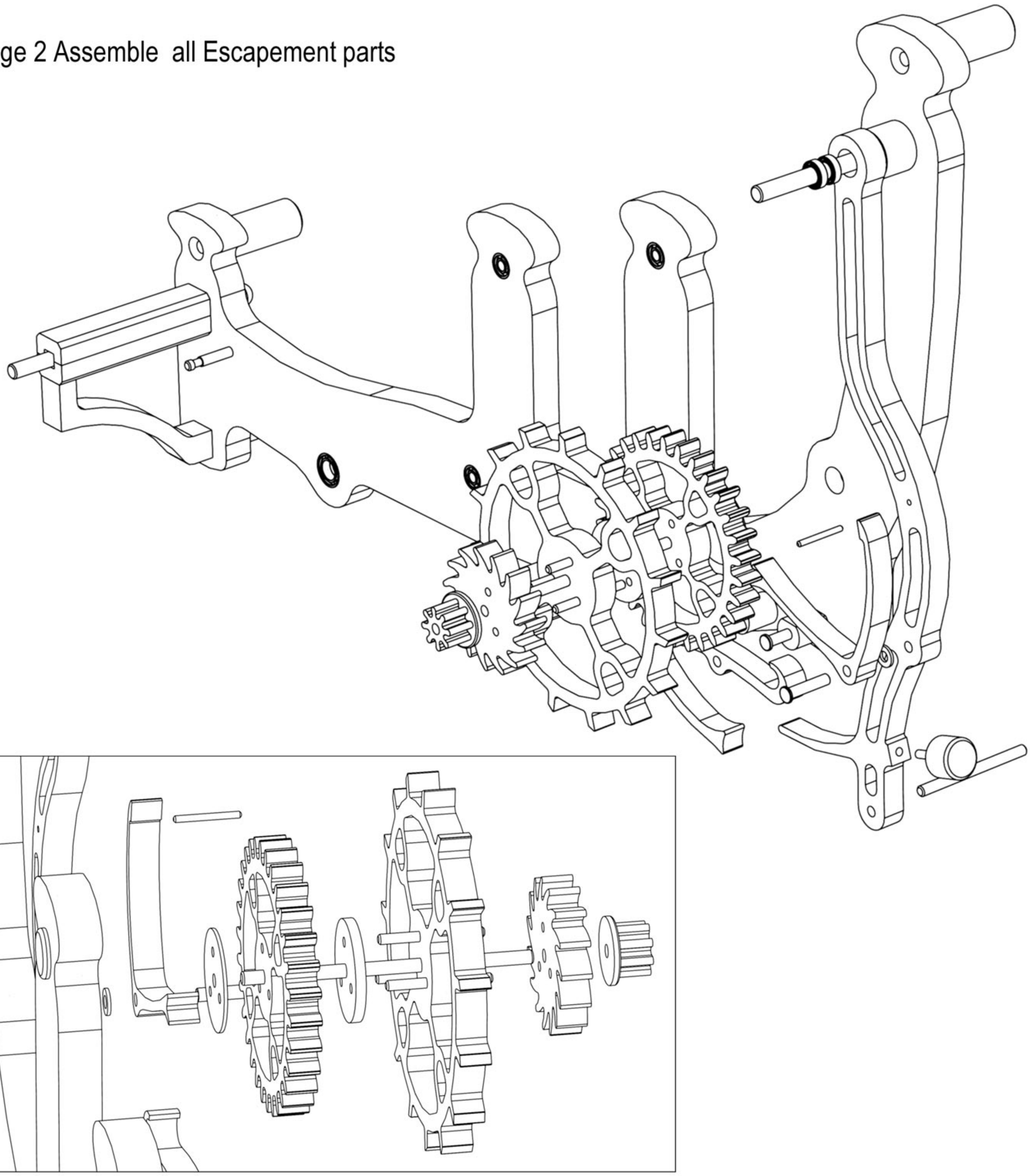
Stage 2 Assemble all Escapement parts



Assemble the the Escapement assembly in the sequence shown abobe and fit the shaft into the bearing in the back frame. Next assemble the Gravity escapement arm parts together and the thit the 6mm dia pin ito the back frame and press the Gravity escapement arm on to it.

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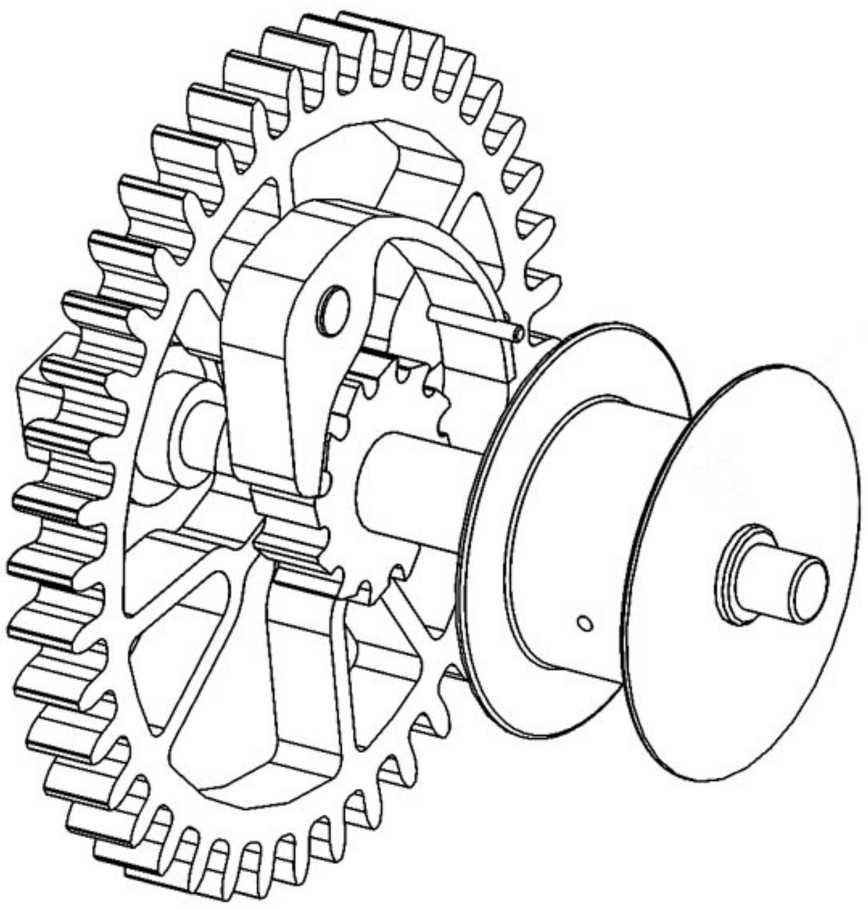
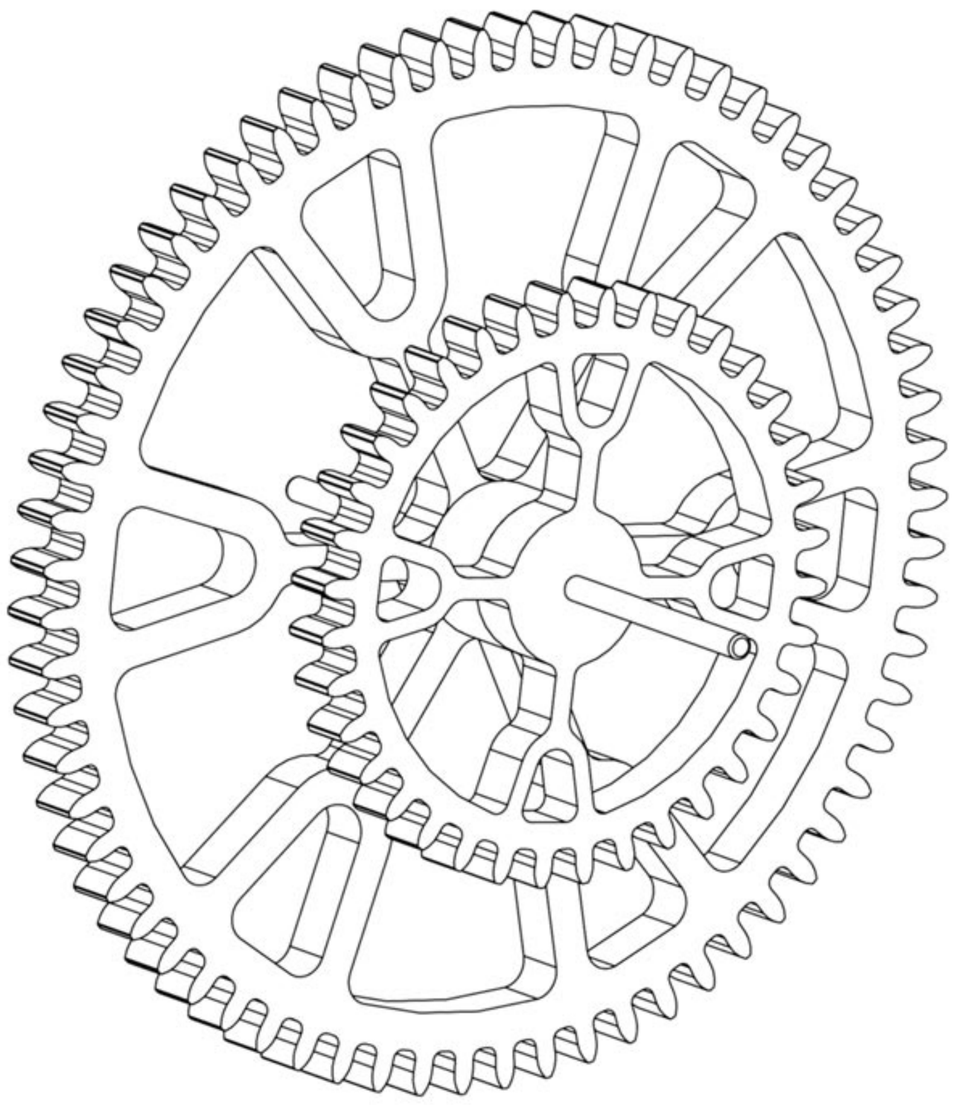
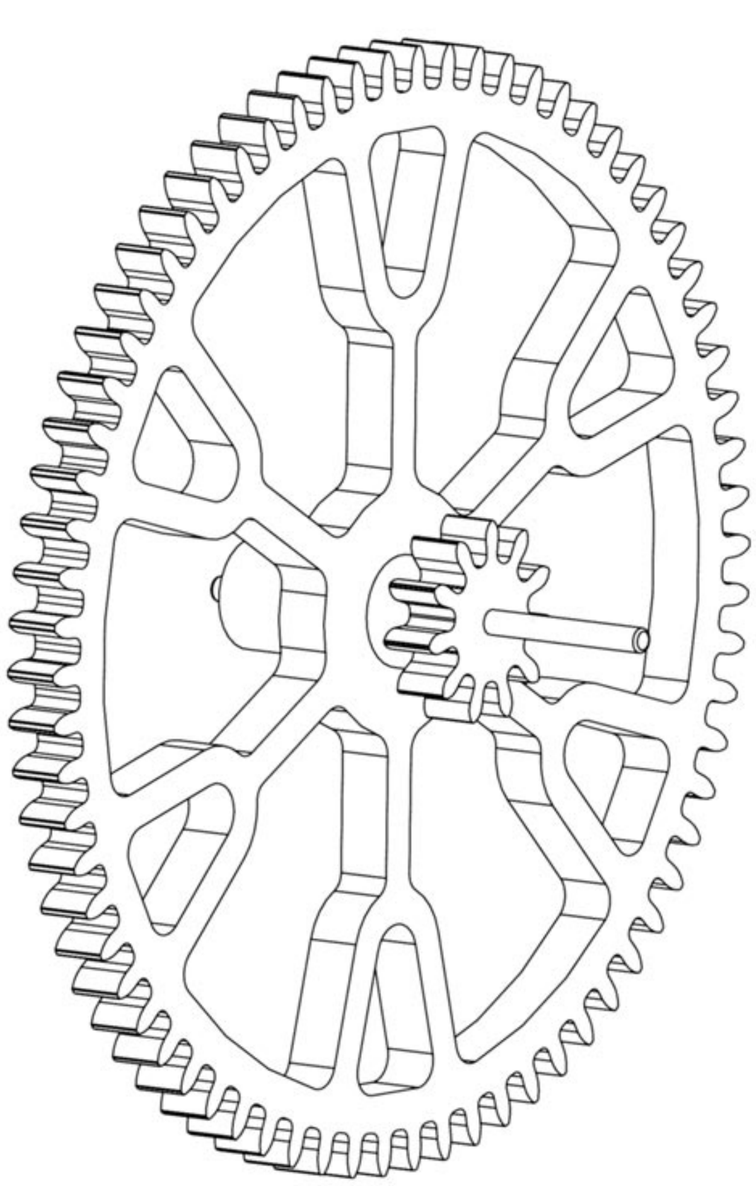
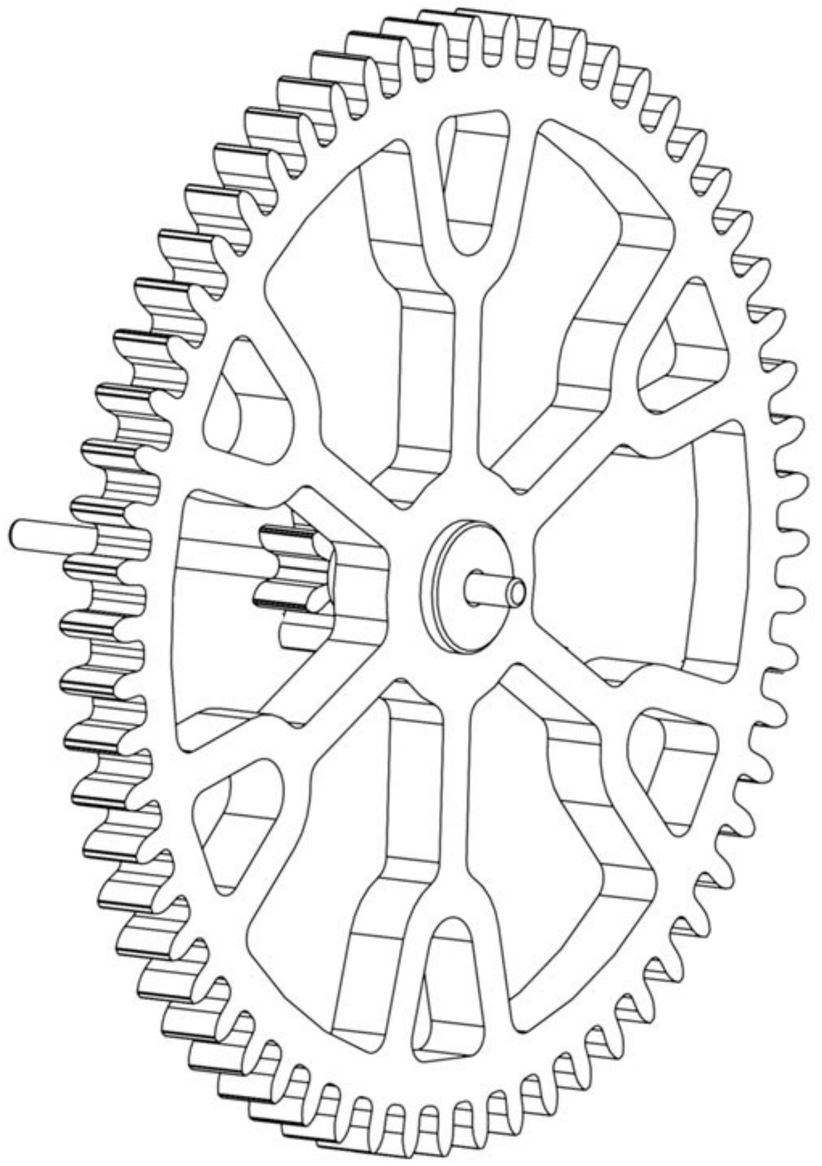
Stage 3 Assemble all Drive train sub assemblies









Assemble all Gear train Sub assemblies in accordance with the dimensions shown on the drawing Sheet .
The Drive gear train shown at the top 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 bacwards.
The other three assemblies should have the parts a tight fit on the shaft.

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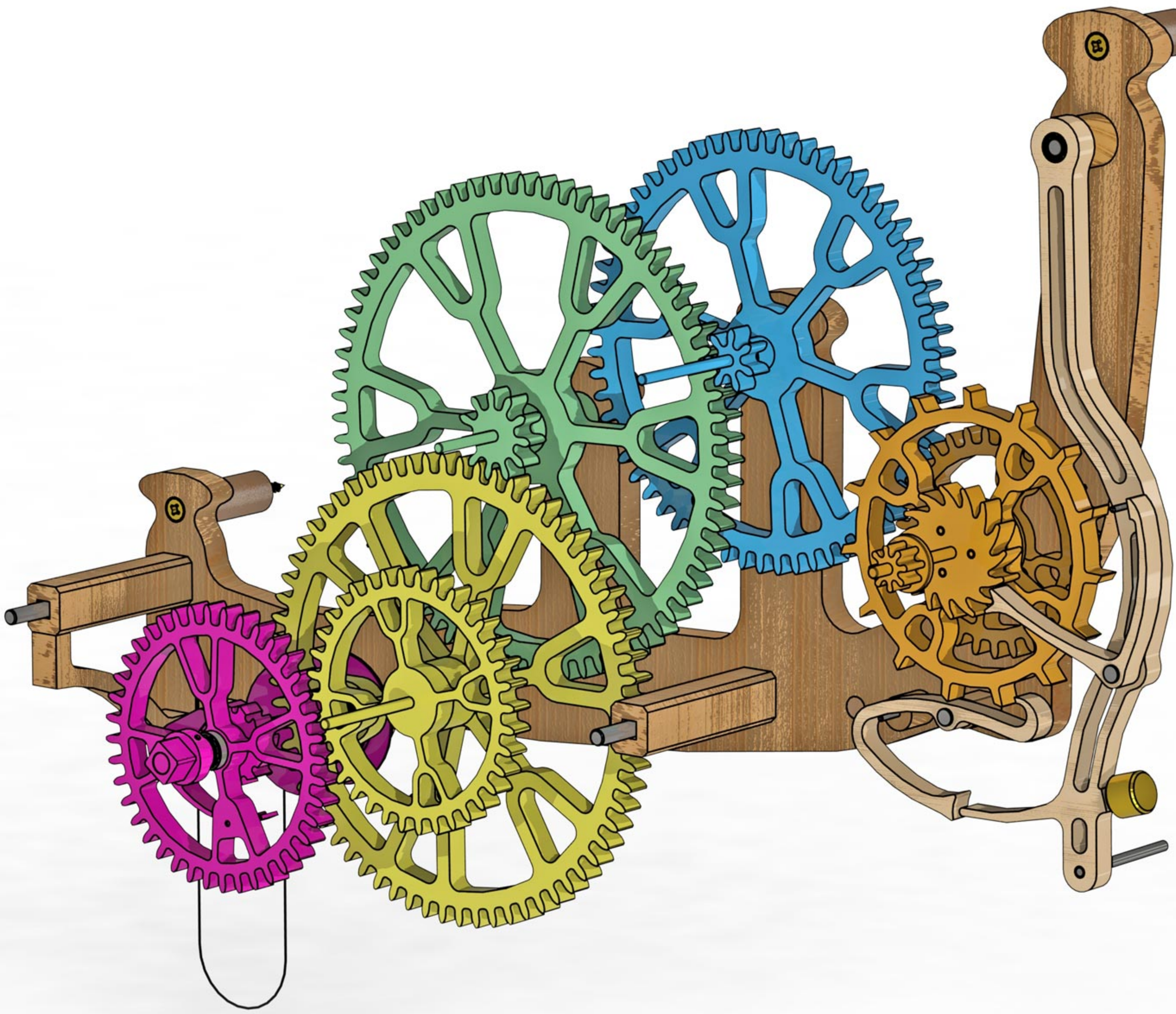
Stage 4 Assemble all Drive train to Back frame



Fit the drive train gear sub assemblies to the back frame starting at the top with the Blue gears.

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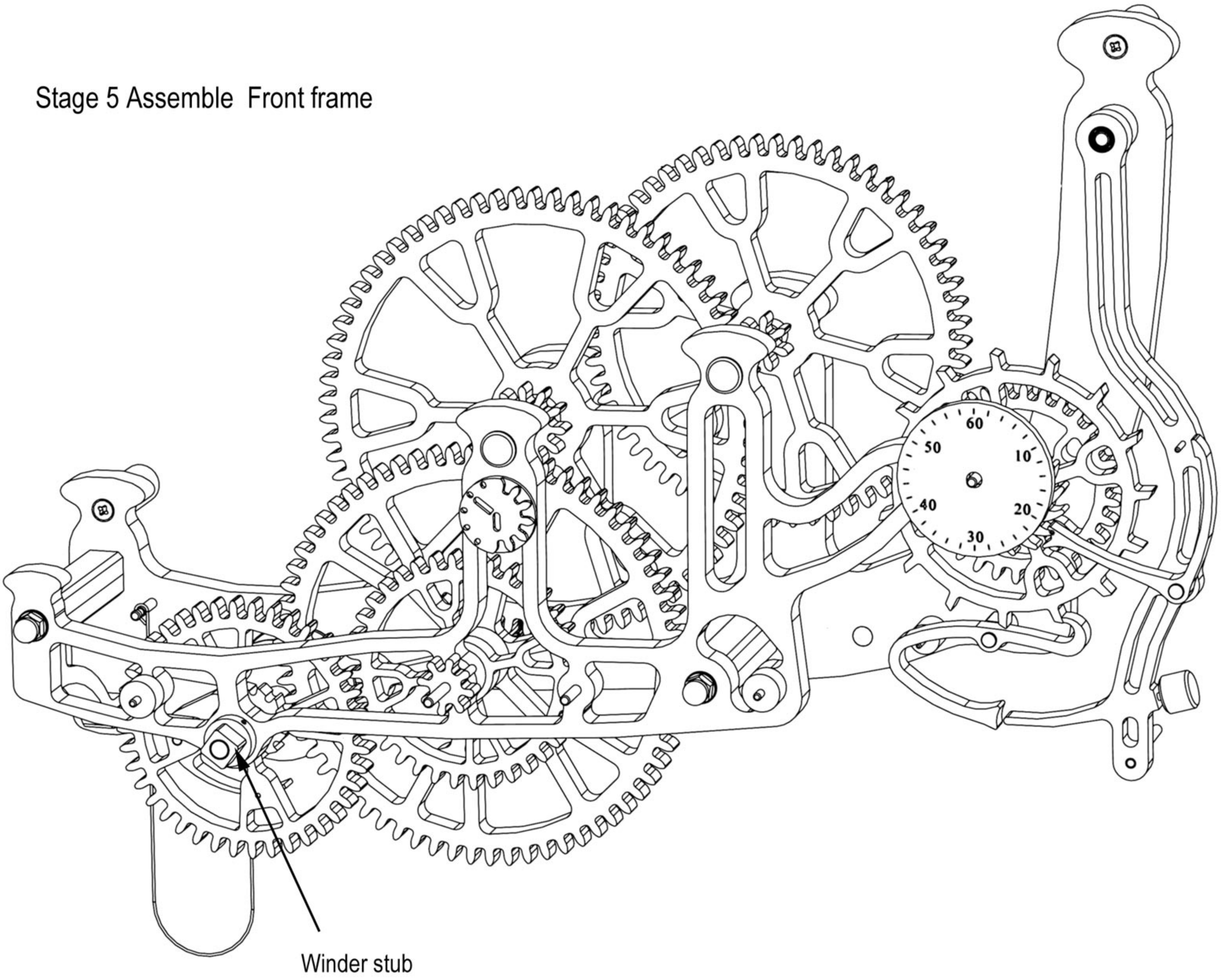
Stage 5 Assemble Front frame



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 with a small 2mm pin.

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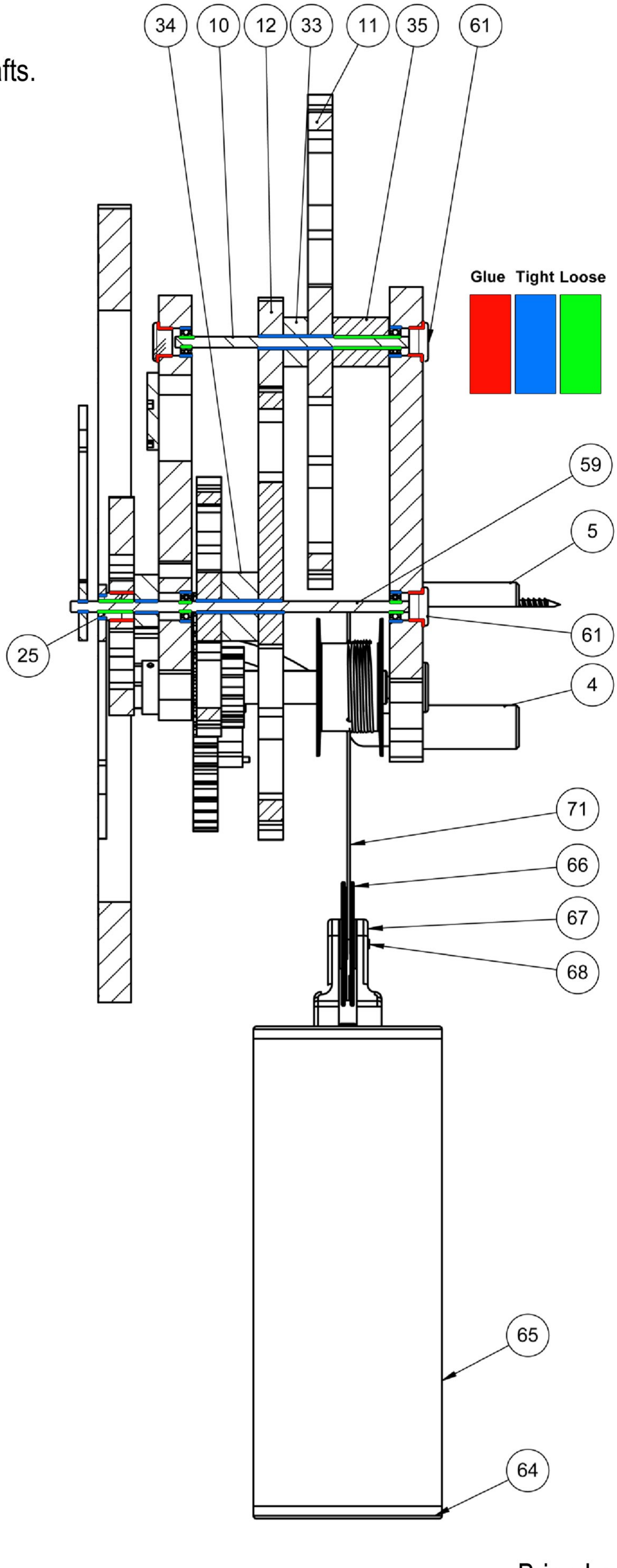
Stage 6 Typical fits required at all shafts.



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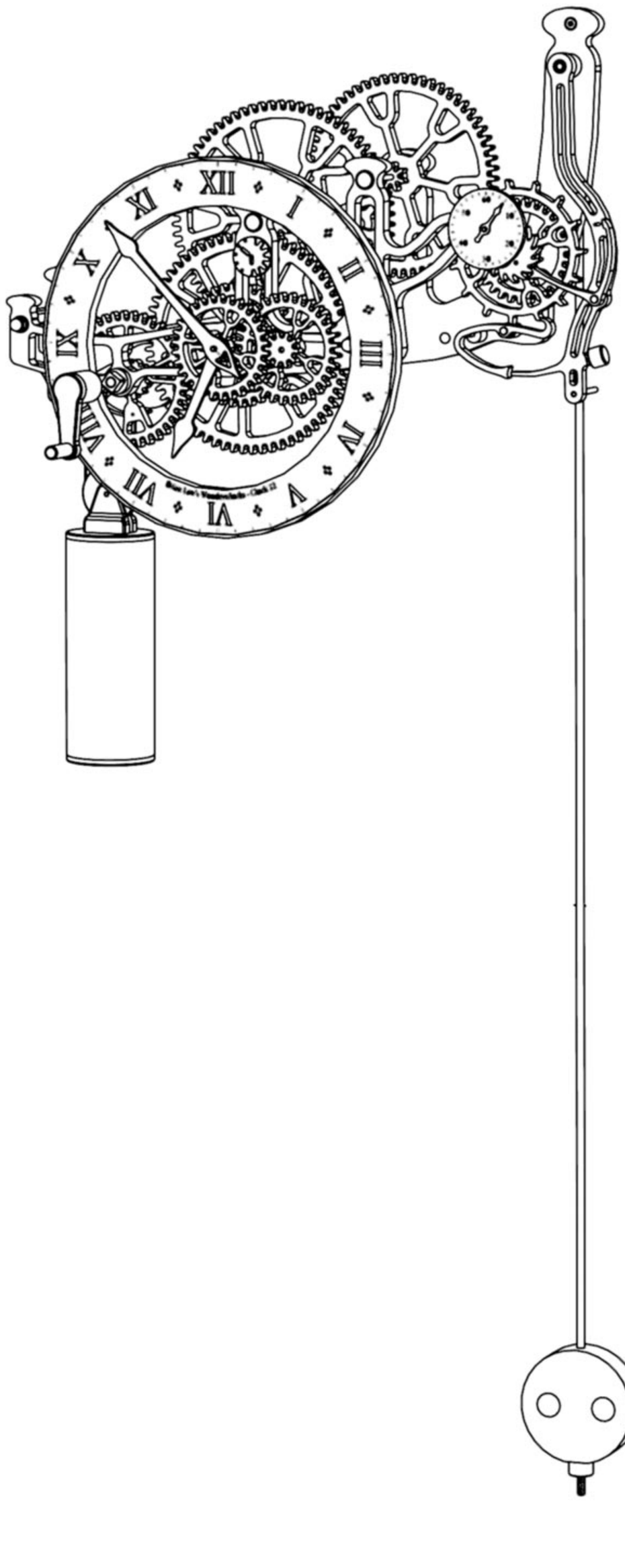
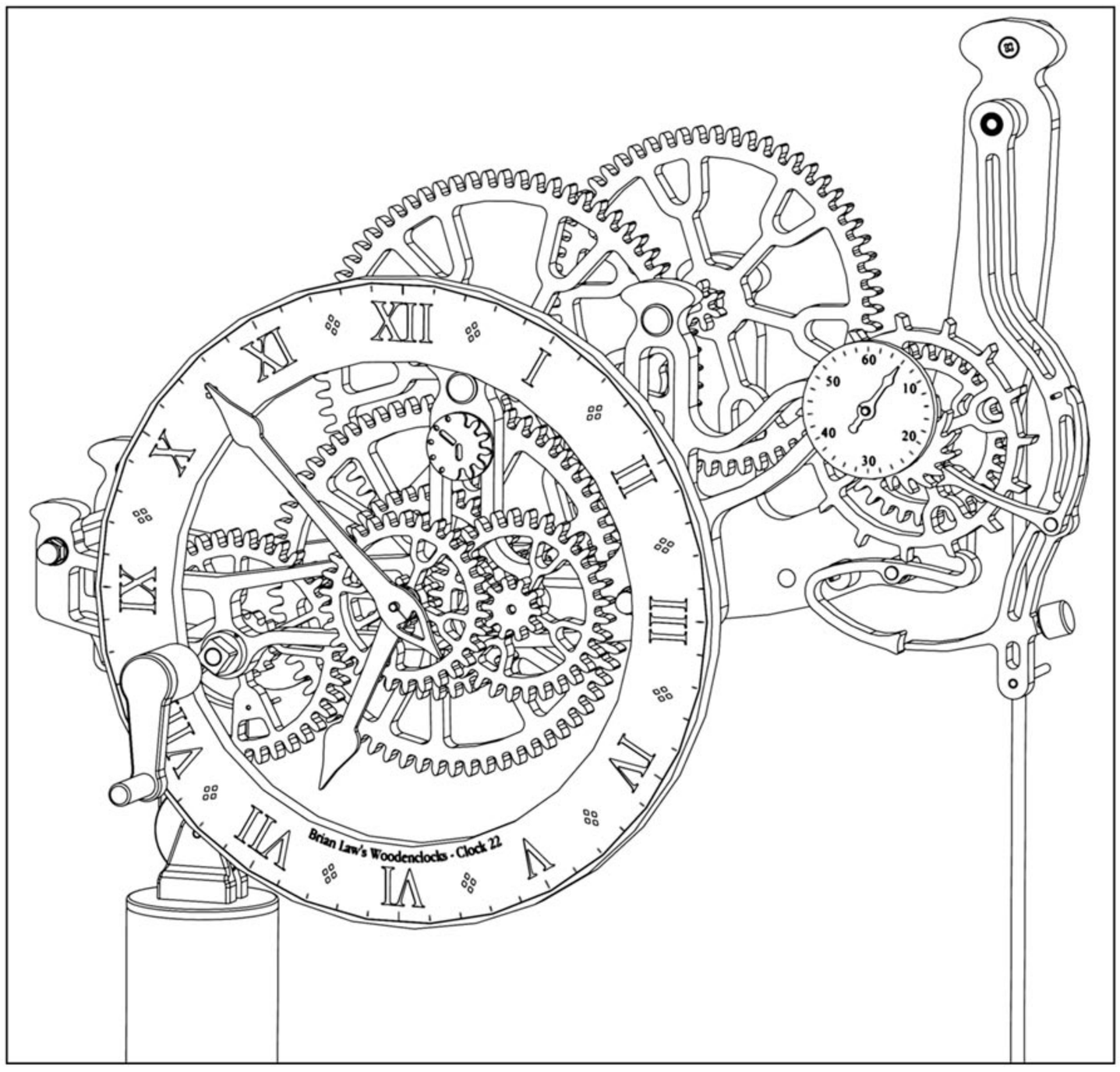
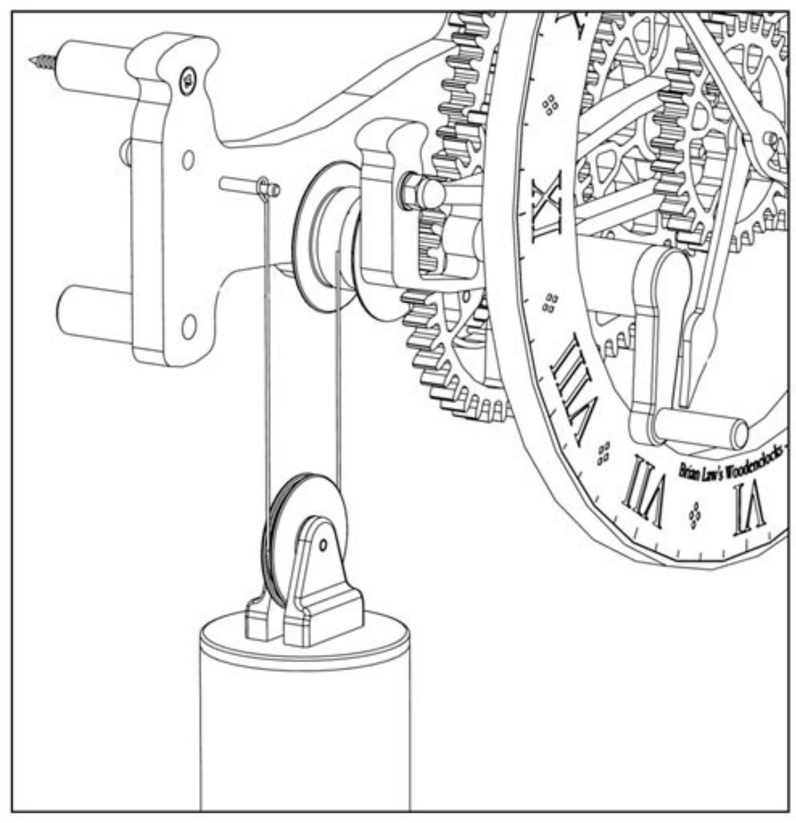
Assembly Sequence





Stage 7 Assemble Fit pendulum, Hands and hour gears and mount on the wall .
Fit weight to cord wrapped around the drum and wind the clock, then set the pendulum swinging.
Adjust the fits around the Gravity escapement components to get the clock running consistently



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