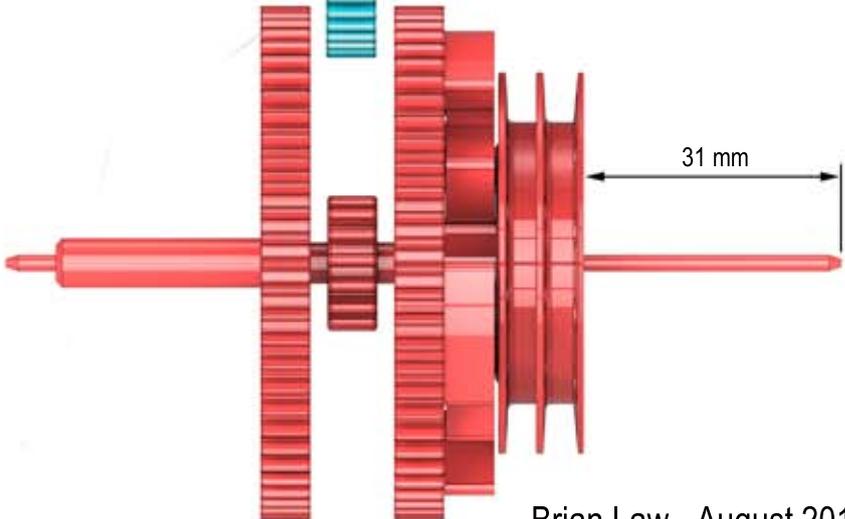
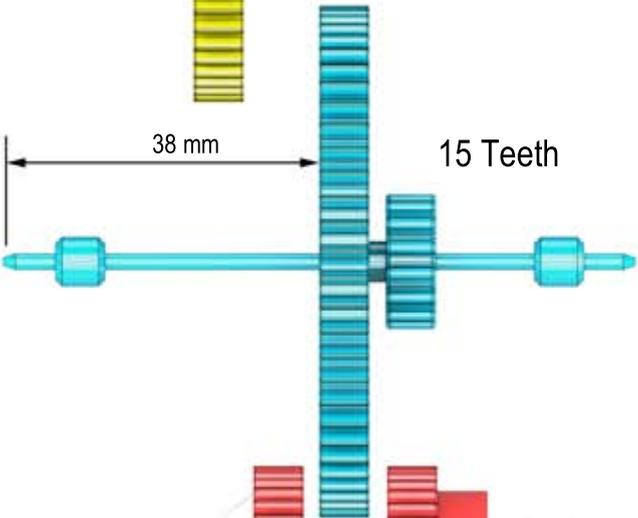
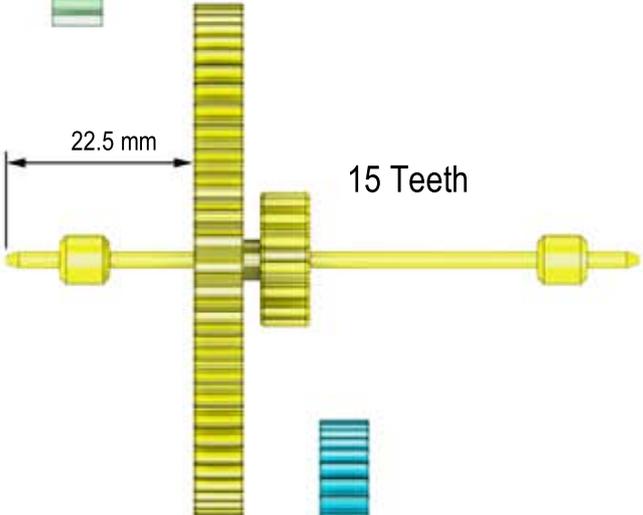
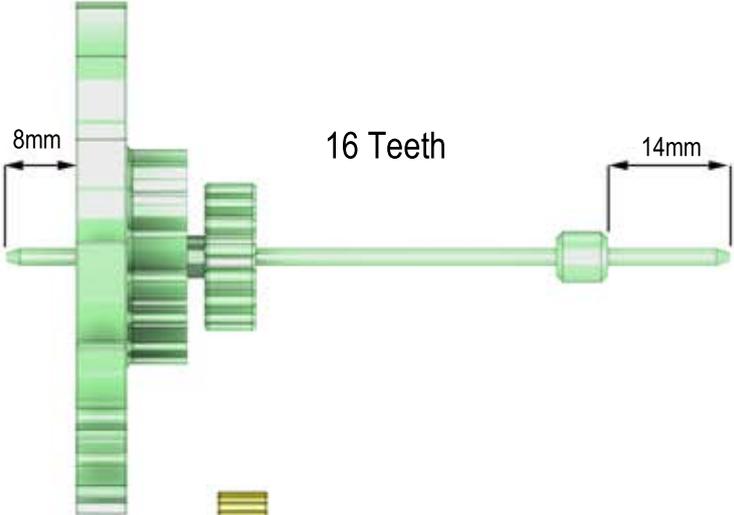


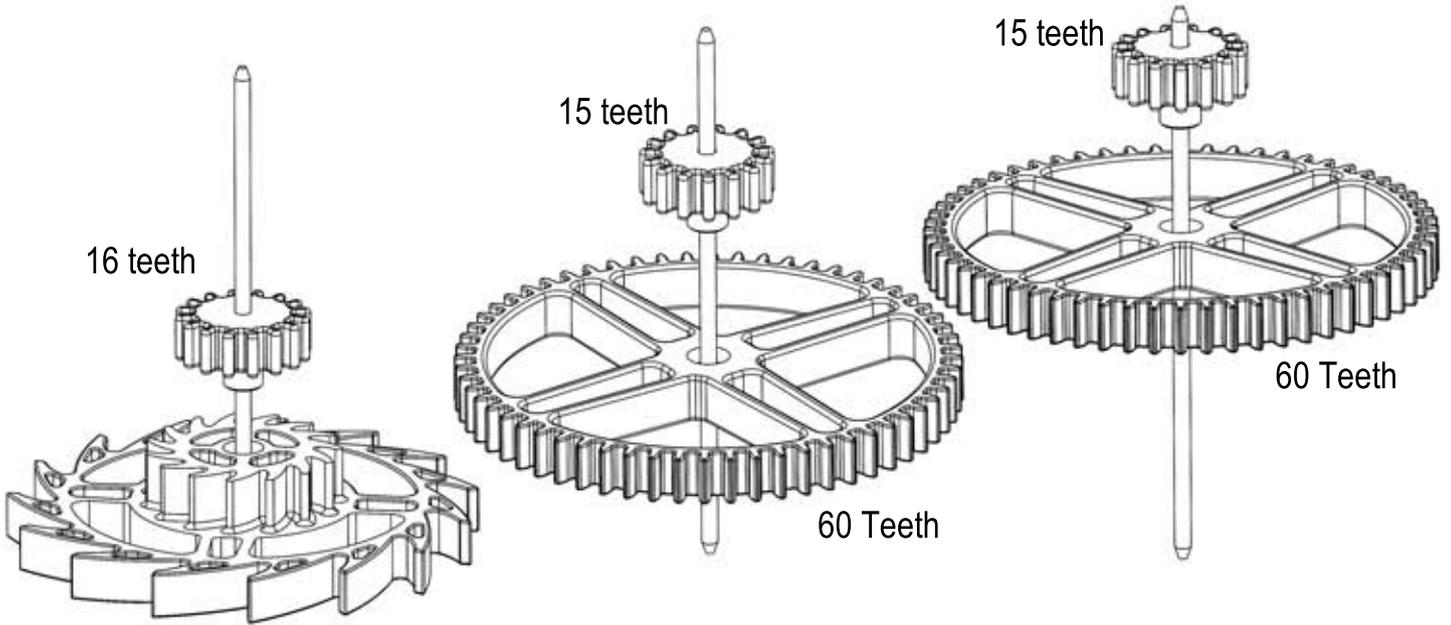
Brian Law's Wooden Clock 29 - FDM - with Balance Wheel and Spring Assembly Sequence

Stage 1 Solvent bond the small gears into the larger gears and Escape Wheel.



Brian Law's Wooden Clock 29 - FDM - with Balance Wheel and Spring Assembly Sequence

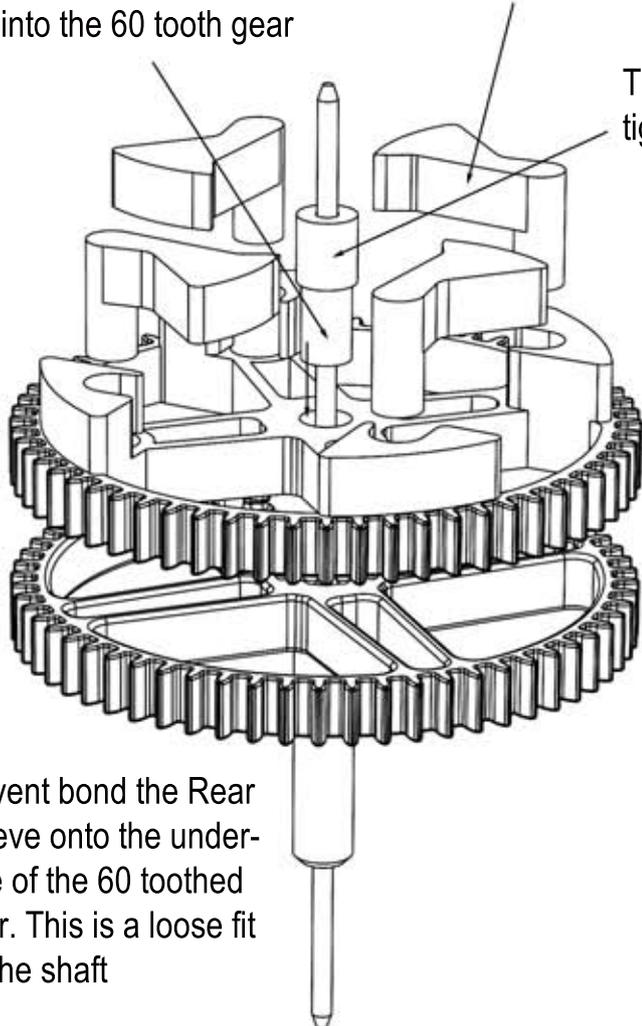
Stage 1a Solvent bond the small gears into the larger gears and Escape Wheel.



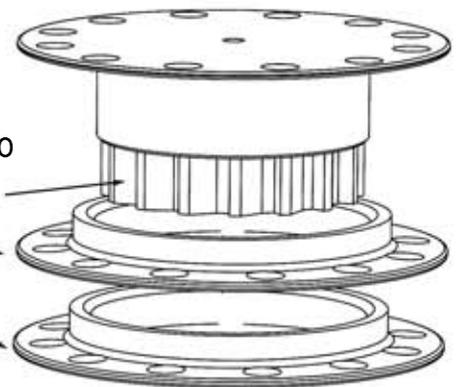
Solvent bond this sleeve into the 60 tooth gear

Loose fit the 4 pawls

This Sleeve is a tight fit on the



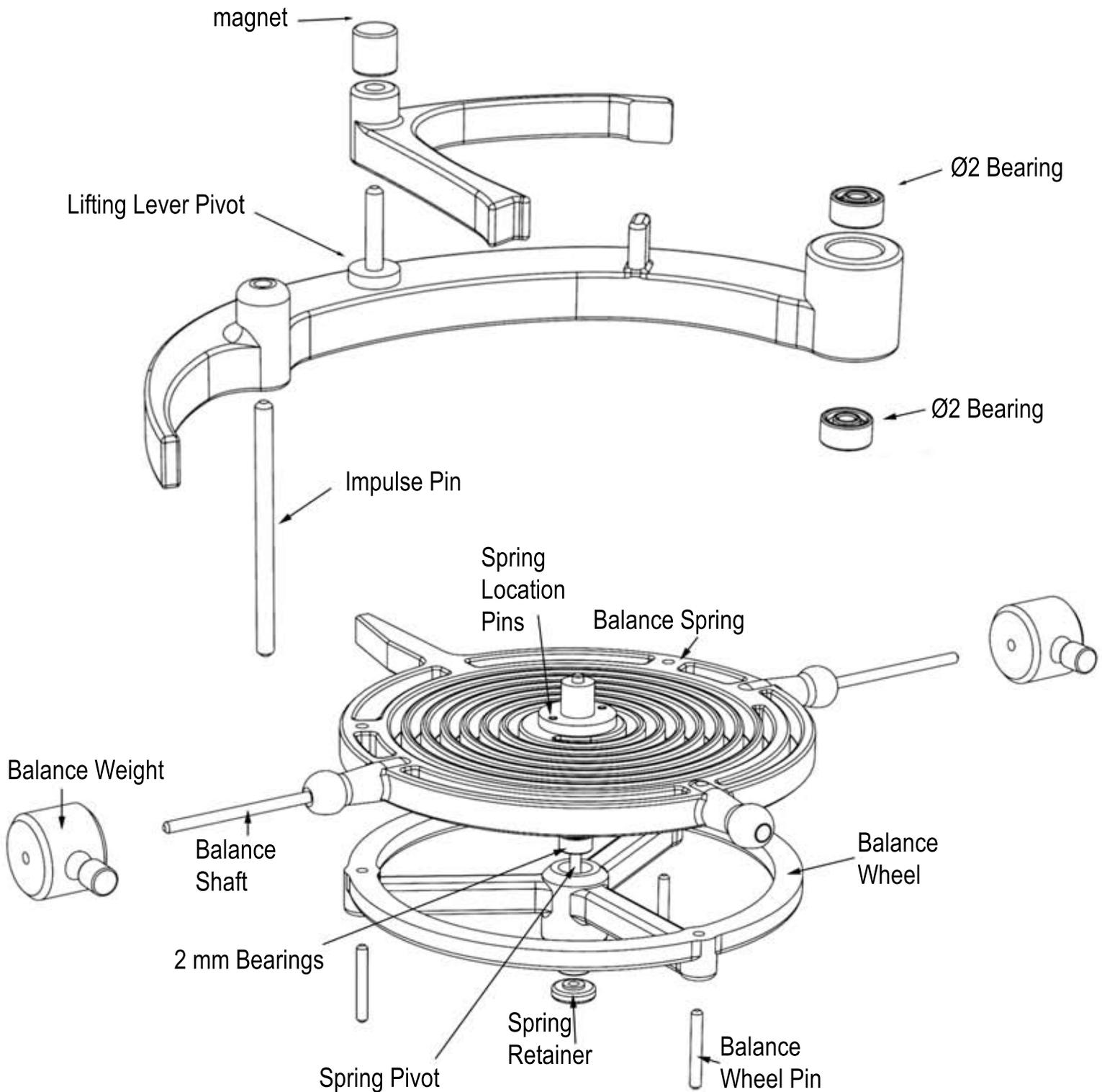
Solvent Bond these two sleeves to the Ratchet



Solvent bond the Rear Sleeve onto the underside of the 60 toothed gear. This is a loose fit on the shaft

Brian Law's Wooden Clock 29 - FDM - with Balance Wheel and Spring Assembly Sequence

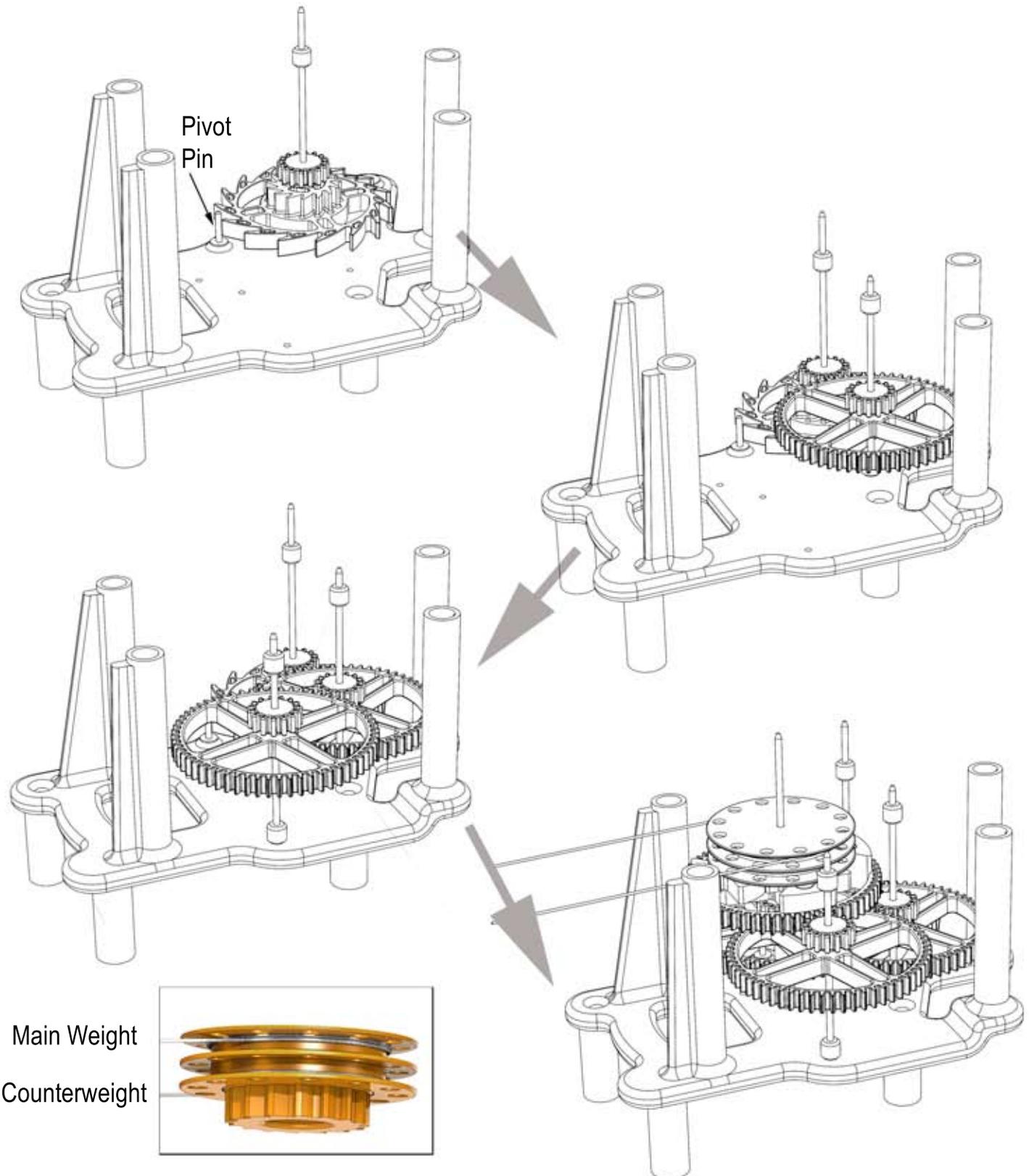
Stage 2 Press fit the 2 Bearings Into either side of the pivot arm. Press fit the lifting Lever Pivot and then fit the Lifting Lever onto it, hold in position with small magnet. Fit the Impulse Pin



Stage 3 Fit the bearings, the Pivot pin and the spring retainer into the Balance wheel, The retainer is to be a tight fit on the Pivot pin. Fit the spring location pins and the Balance shafts to the Balance Spring and then pin the Balance wheel and the Balance Spring together using the 3 pins. Slide on the Balance weights and retain with the magnets fitted into side holes.

Brian Law's Wooden Clock 29 - FDM - with Balance Wheel and Spring Assembly Sequence

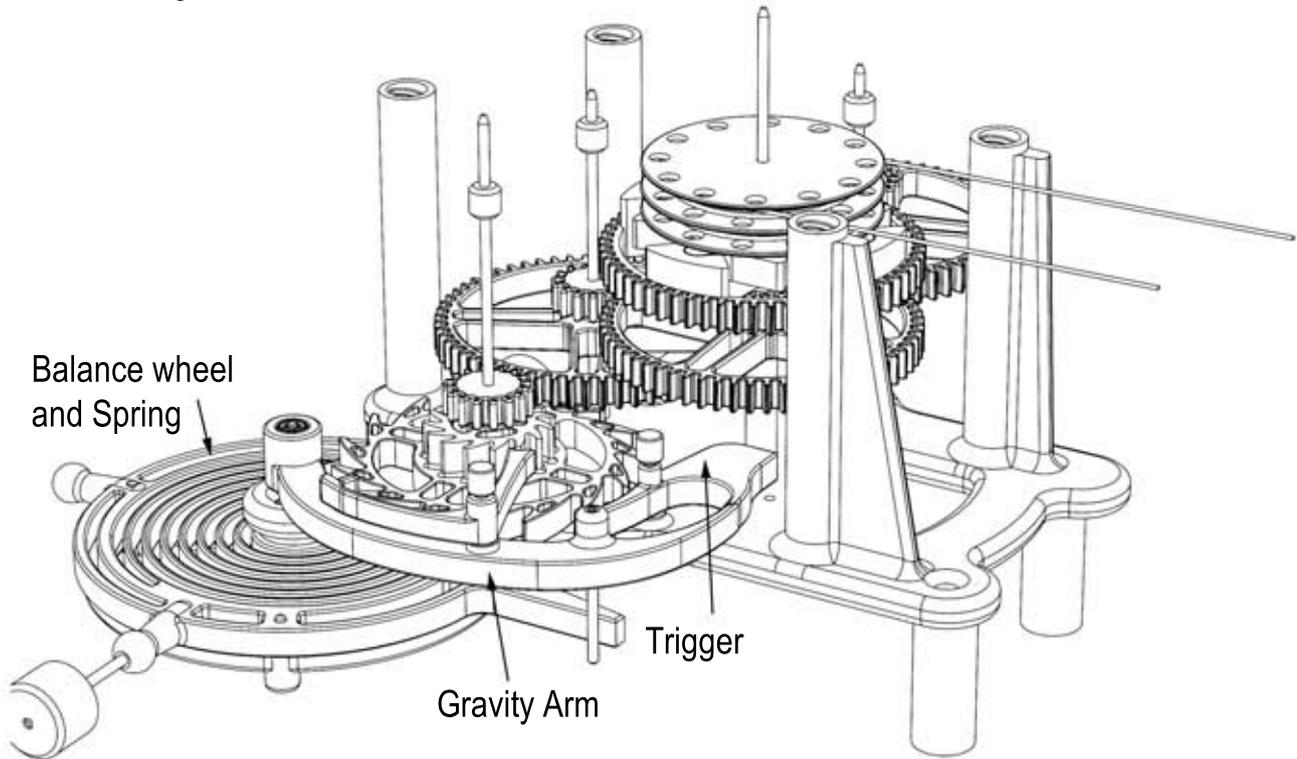
Stage 3 Fit the Pivot pin for the Trigger and then progressively fit all the gear train sub assemblies.



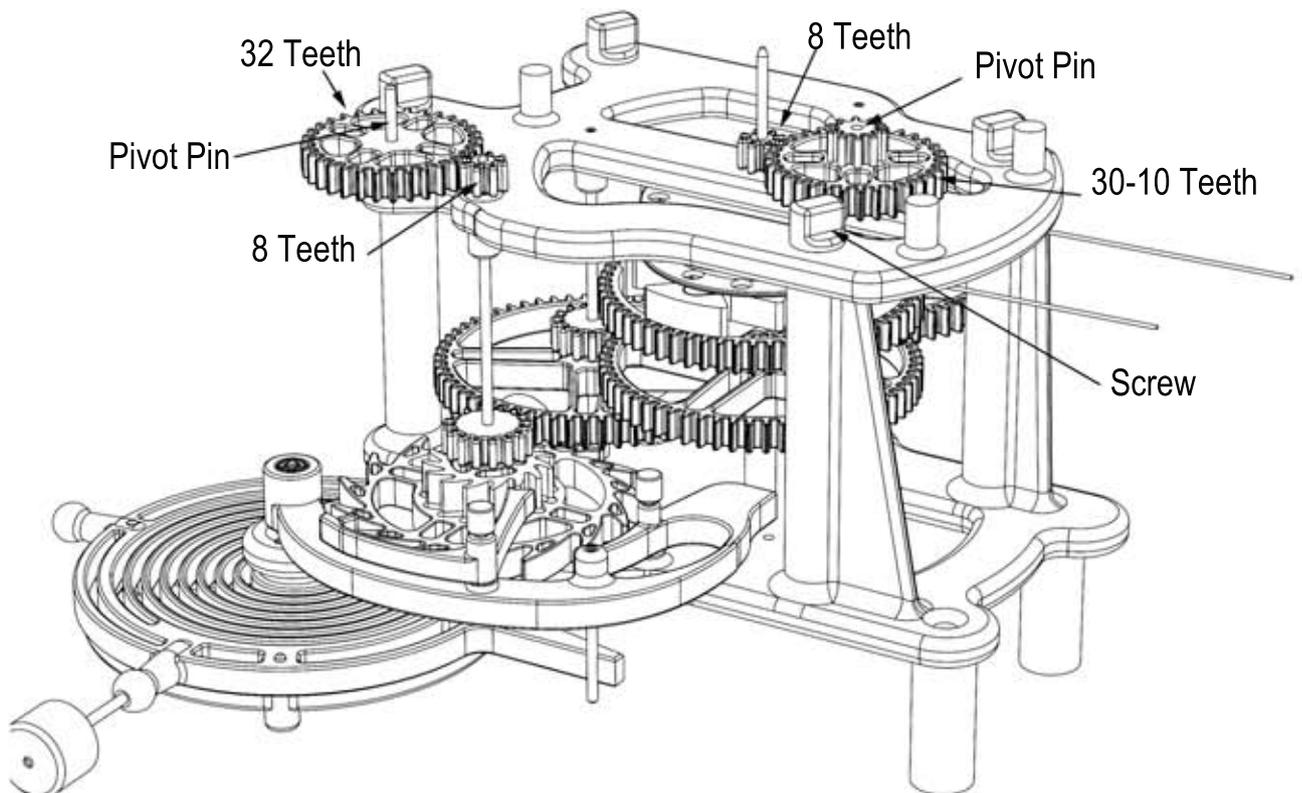
Make sure to wind the cord for the main weight to the top groove, winding clock wise when viewed from the front. The cord for the counterweight is wound in the opposite direction and is located in the bottom groove.

Brian Law's Wooden Clock 29 - FDM - with Balance Wheel and Spring Assembly Sequence

Stage 4 Fit the Balance Wheel assembly to the rear of the Back frame, and then attach the gravity Arm to the same pivot on the front of the Back frame. Finally fit the trigger and cap it off with the small magnet.

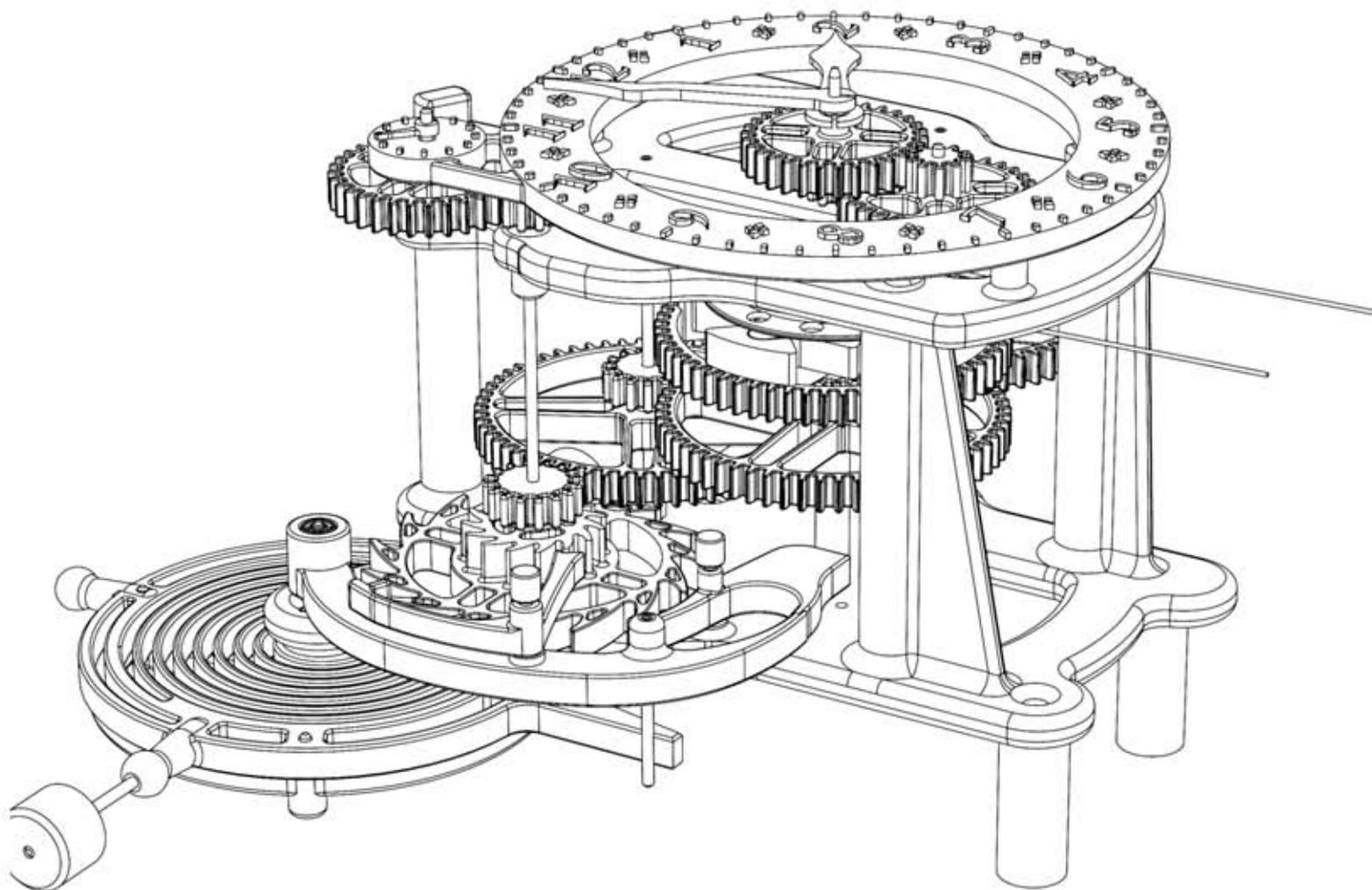


Stage 5 Fit the Front Frame carefully engaging all of the gear shafts into their holes, secure with the 4 plastic screws. Now add the gears and pivots that fit on the Front Frame



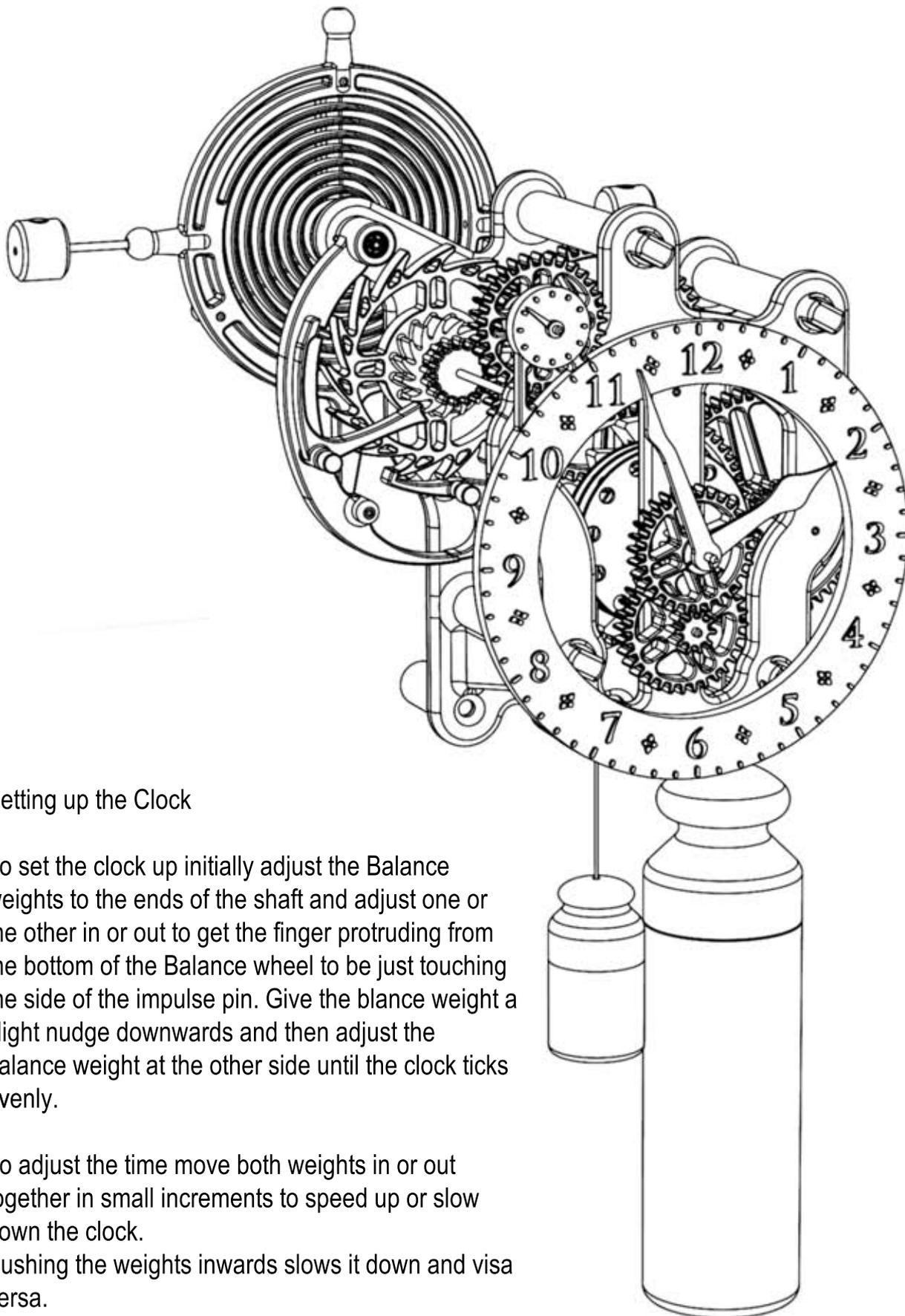
Brian Law's Wooden Clock 29 - FDM - with Balance Wheel and Spring Assembly Sequence

Stage 6 Fit the Dial, it should be a tight fit on the 3 pillars standing up from the front face and then fit the hands to the ends of their shafts.



Brian Law's Wooden Clock 29 - FDM - with Balance Wheel and Spring Assembly Sequence

Stage 7 Fit the clock to the wall making sure that the vertical surfaces of the frame do actually hang vertical.



Setting up the Clock

To set the clock up initially adjust the Balance weights to the ends of the shaft and adjust one or the other in or out to get the finger protruding from the bottom of the Balance wheel to be just touching the side of the impulse pin. Give the balance weight a slight nudge downwards and then adjust the balance weight at the other side until the clock ticks evenly.

To adjust the time move both weights in or out together in small increments to speed up or slow down the clock.

Pushing the weights inwards slows it down and visa versa.