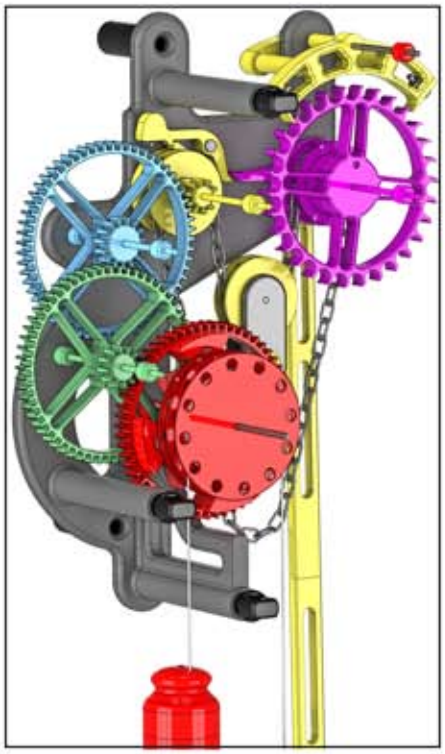
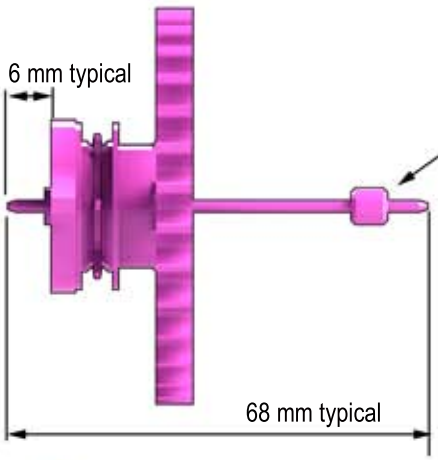
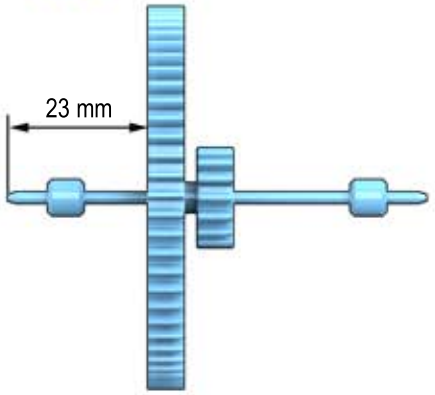
Brian Law's Wooden Clock 28 - FDM - with Remontoire

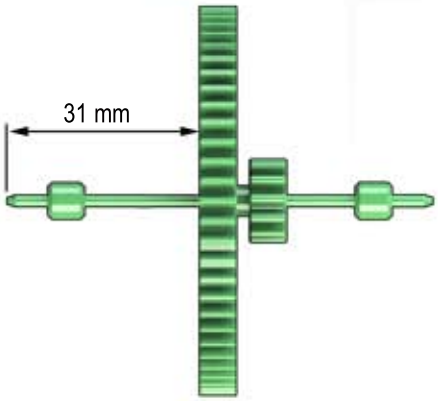
Assembly Sequence

Stage 1 Solvent bond the small gears into the larger gears.

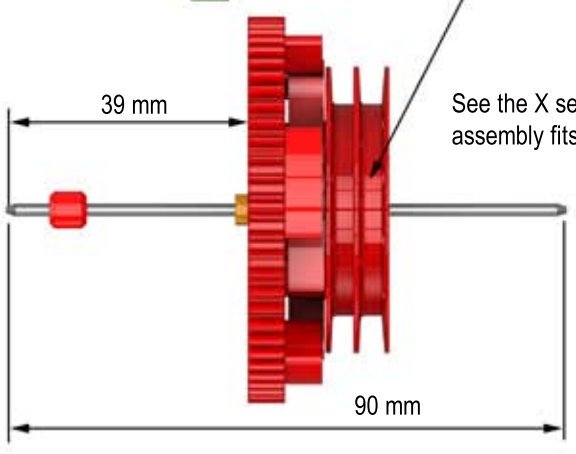








NB! All parts to be a tight fit on the shaft except the Drive shaft in red below where the Ratchet part is to be a loose fit on the shaft



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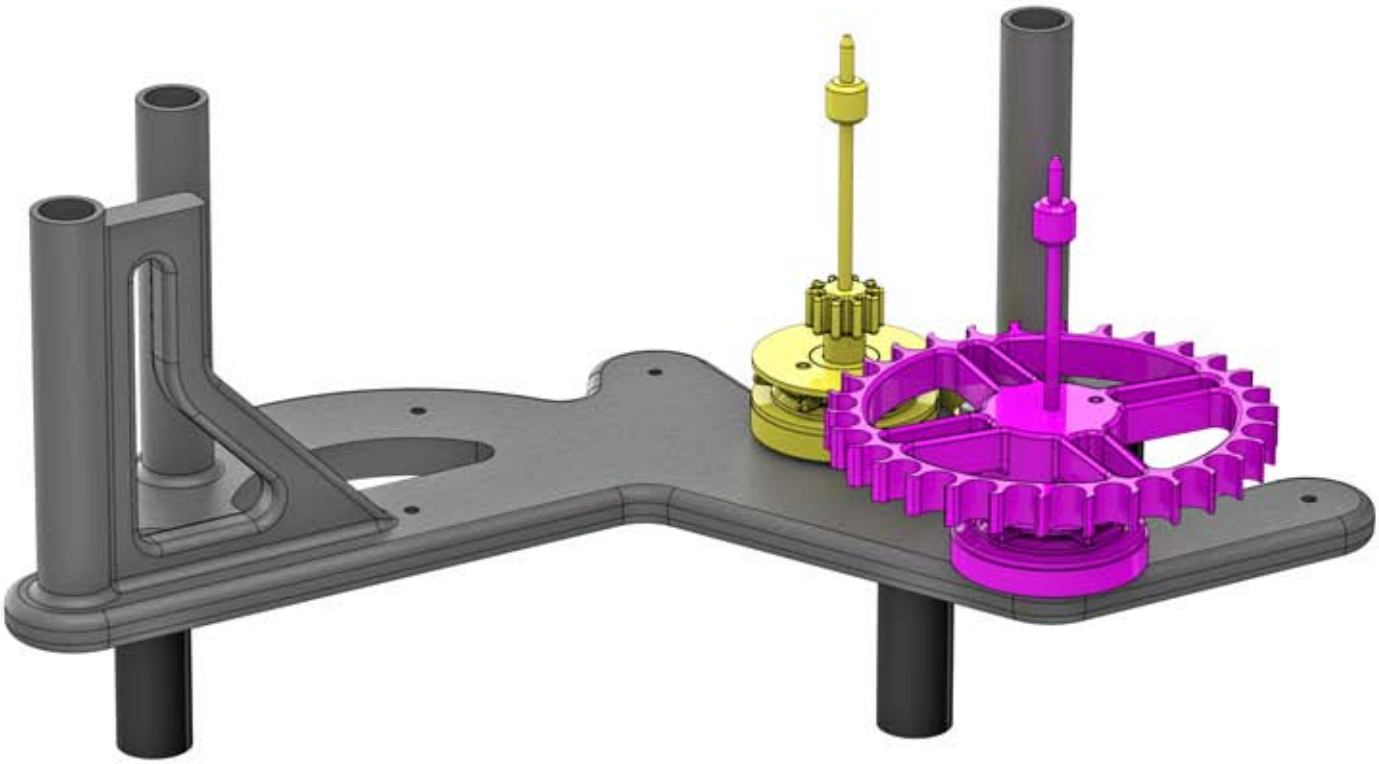
Assembly Sequence

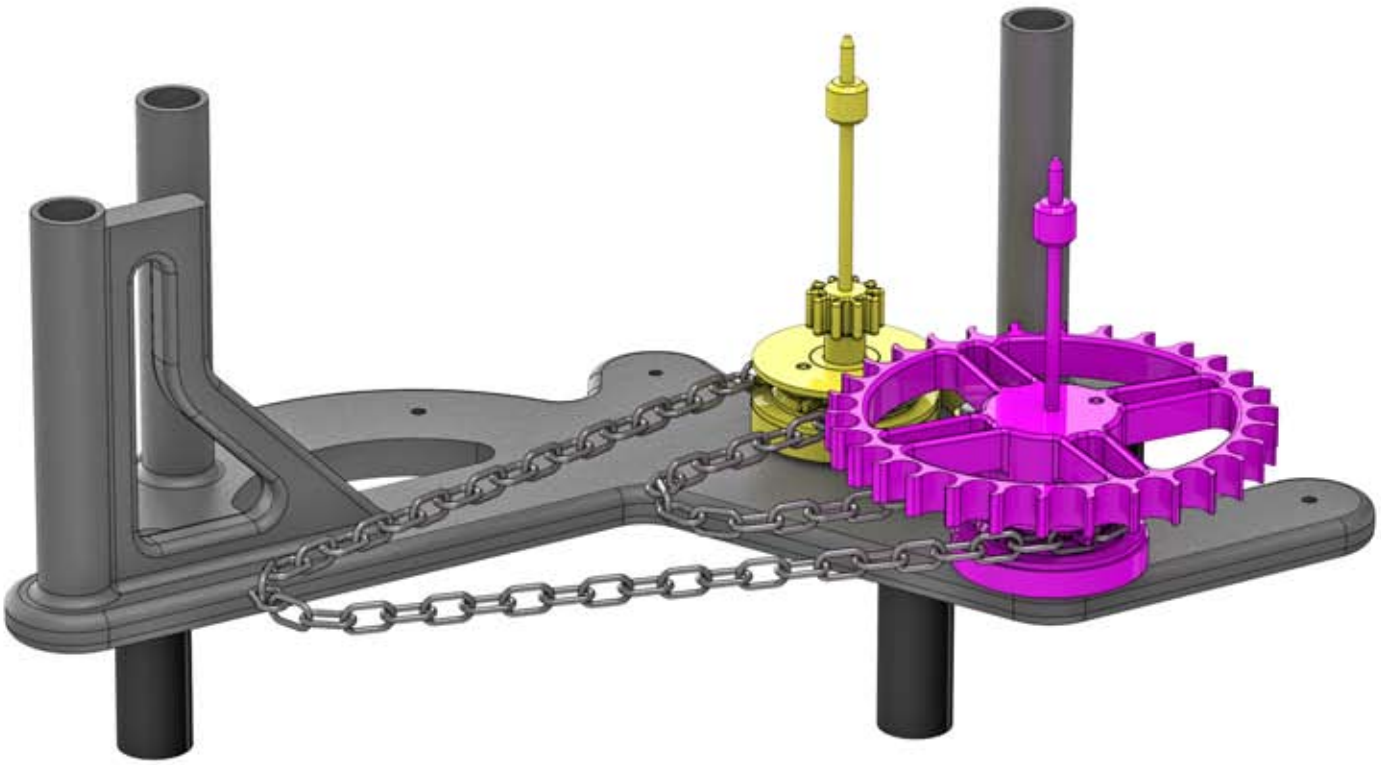
Stage 2 : Fit the Trigger into position using the headed pin and a short pin for the stop.
Fit the Remontoire Drive assembly and the Escapement assembly.

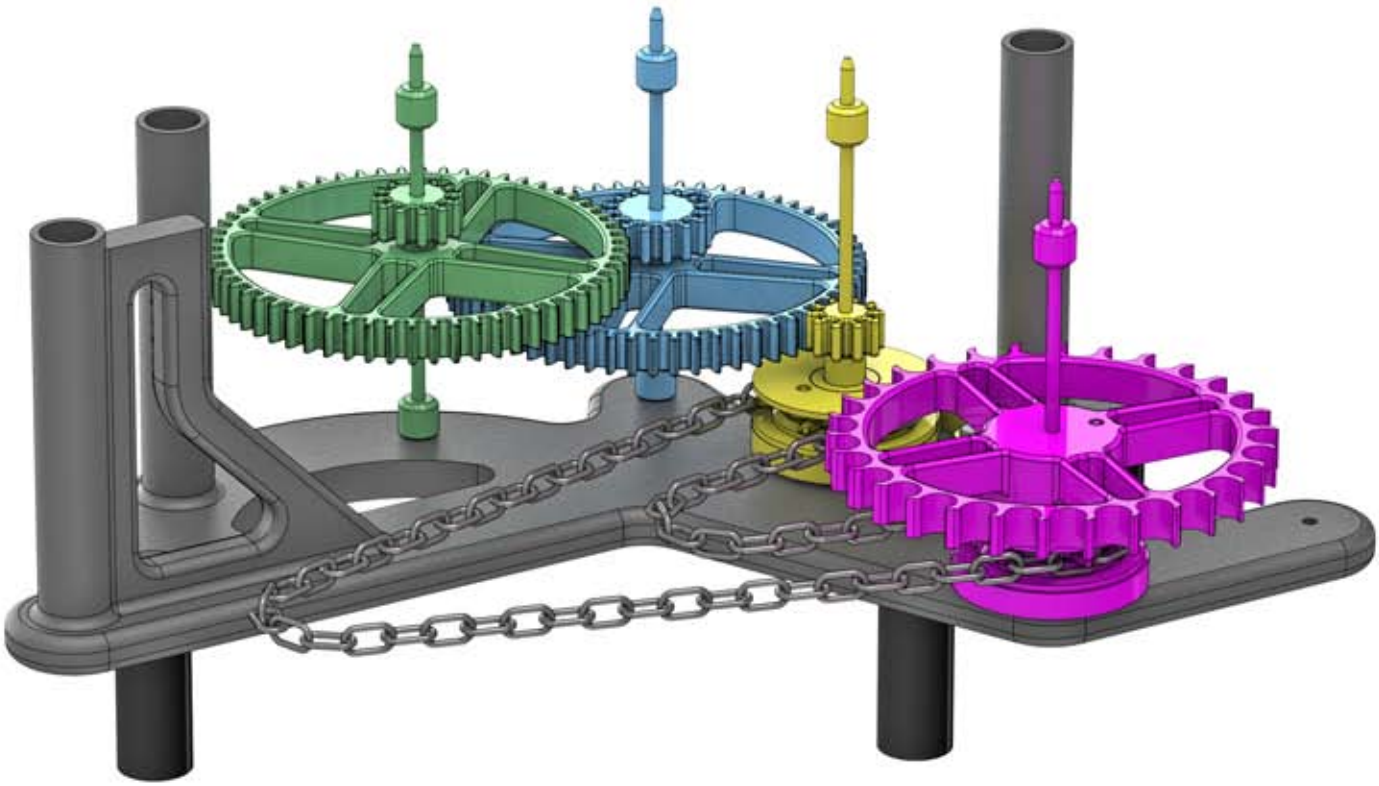


Brian Law's Wooden Clock 28 - FDM - with Remontoire

Assembly Sequence

Stage 3 Fit the Chain and the two Drive train gears





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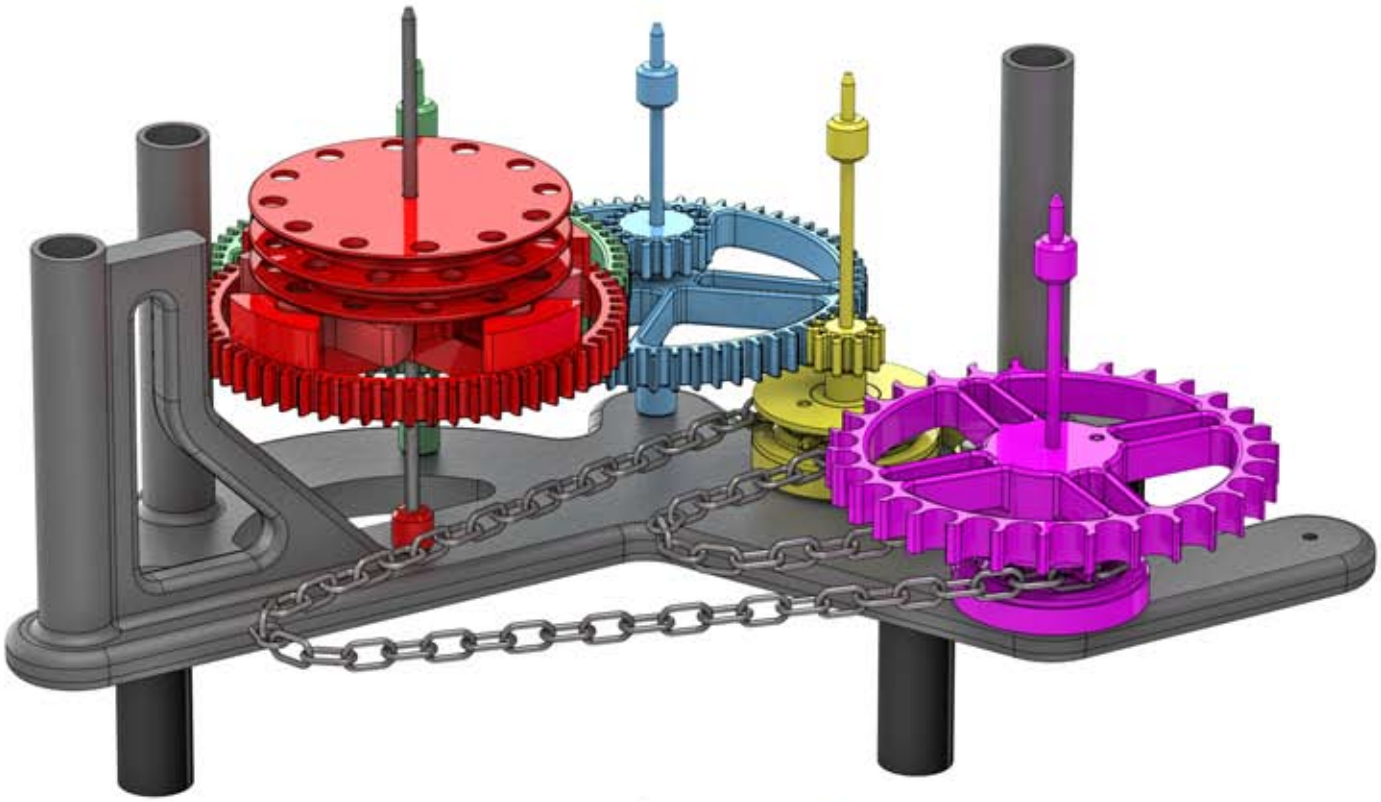
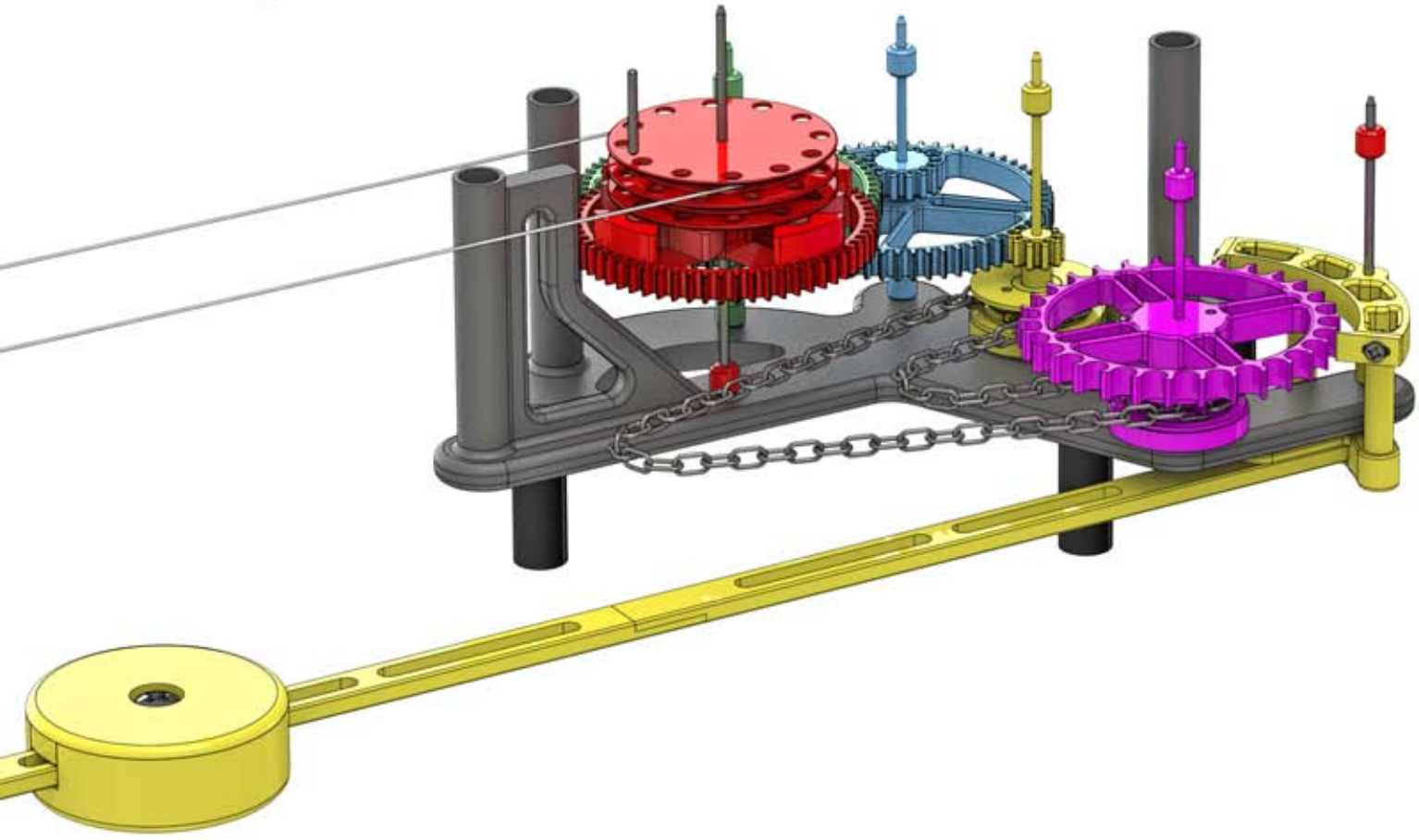
Assembly Sequence

Stage 4 Fit the Drive wheel assembly and then the cords and the pendulum assembly





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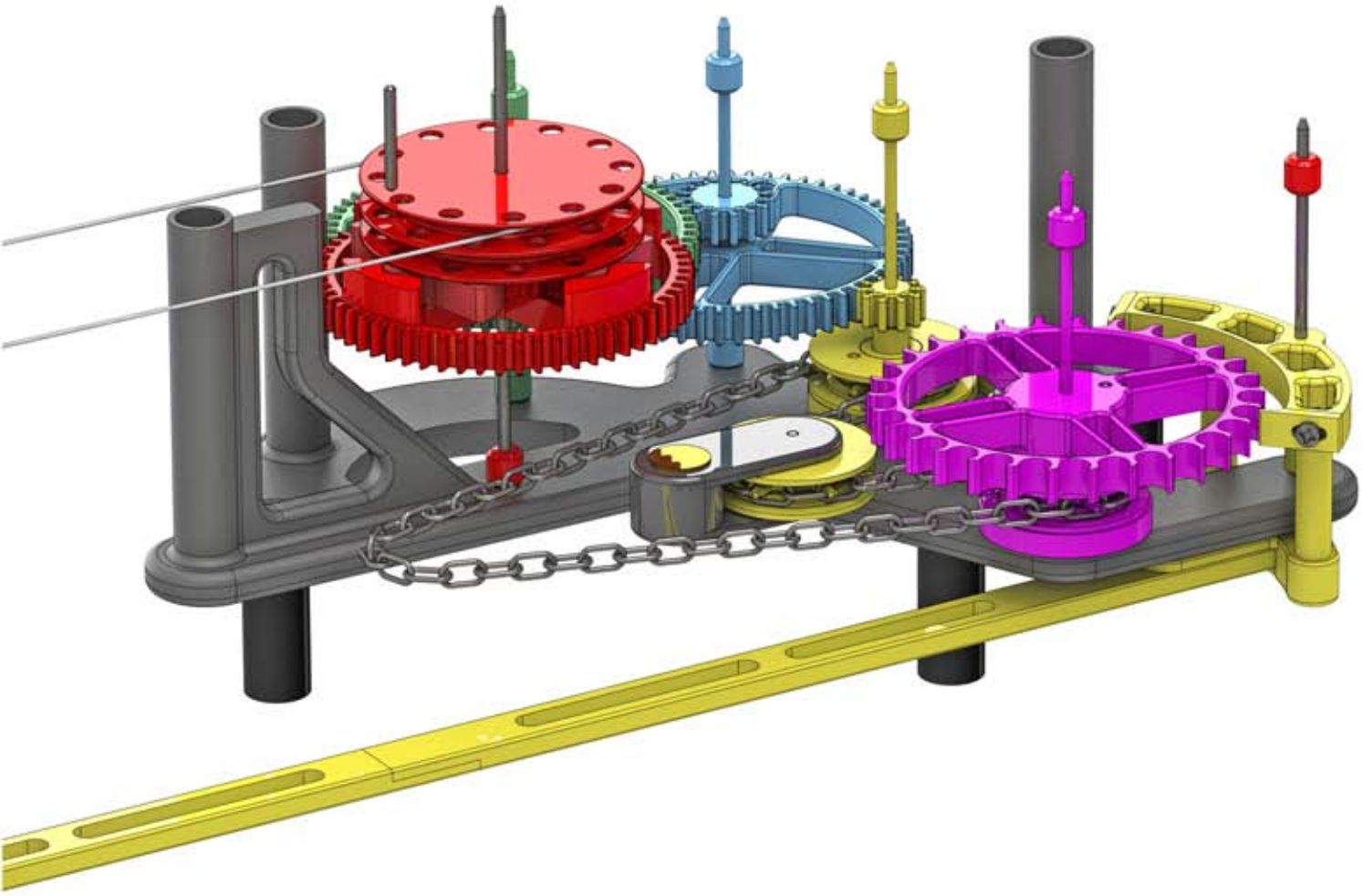
Assembly Sequence

Stage 5 Fit the Escapement weight to the Chain, by first feedin the Sproket assembly to the chain and then using a short pin to fix the Weight holder in place.



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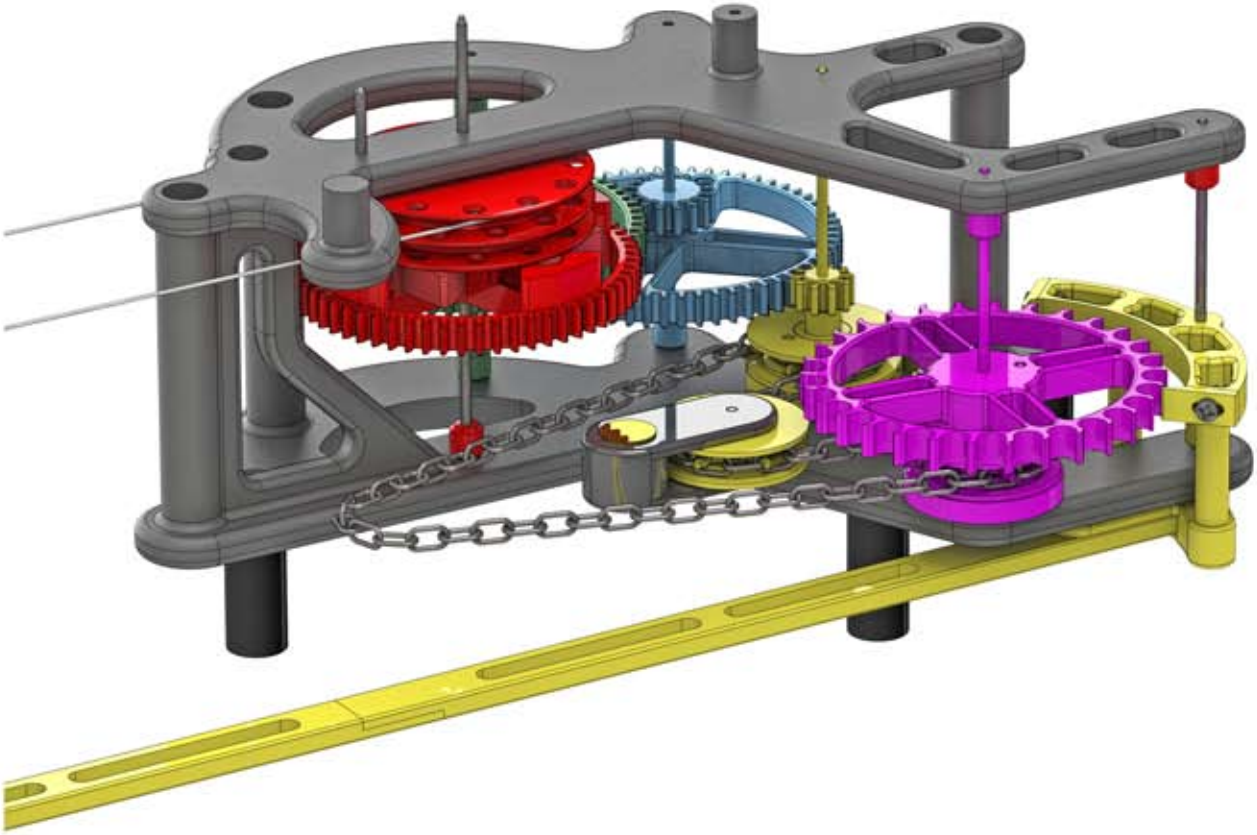
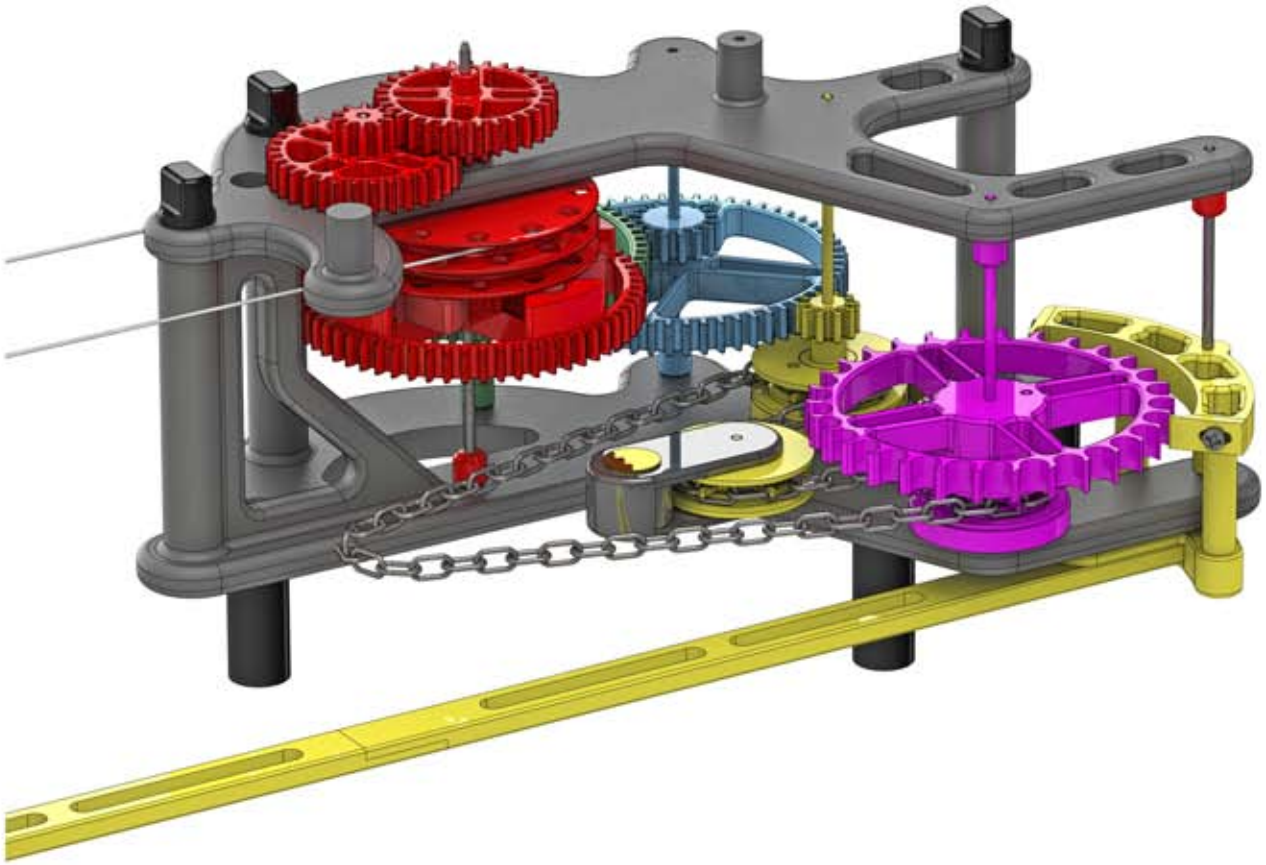
Assembly Sequence

Stage 6 Fit the Front Plate over the the Gear train Shafts and locate onto the end of the Back Frame Spacers.
Fit the Hour gears to the protruding drive shaft and the separate pivot pin.





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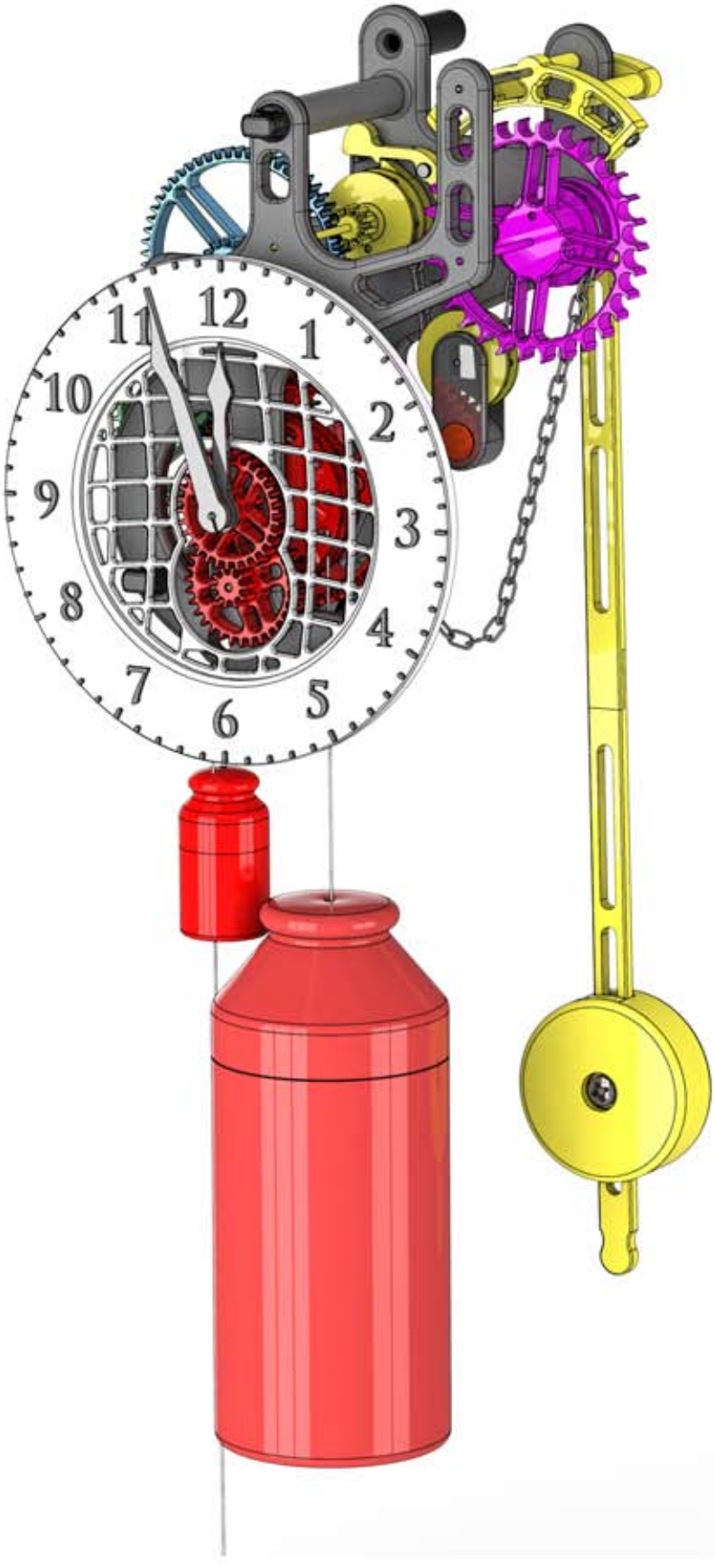
Assembly Sequence

Stage 7 Mount the clock to the wall and then fit the dial and the hands and add the weights to the cords extending from the drum



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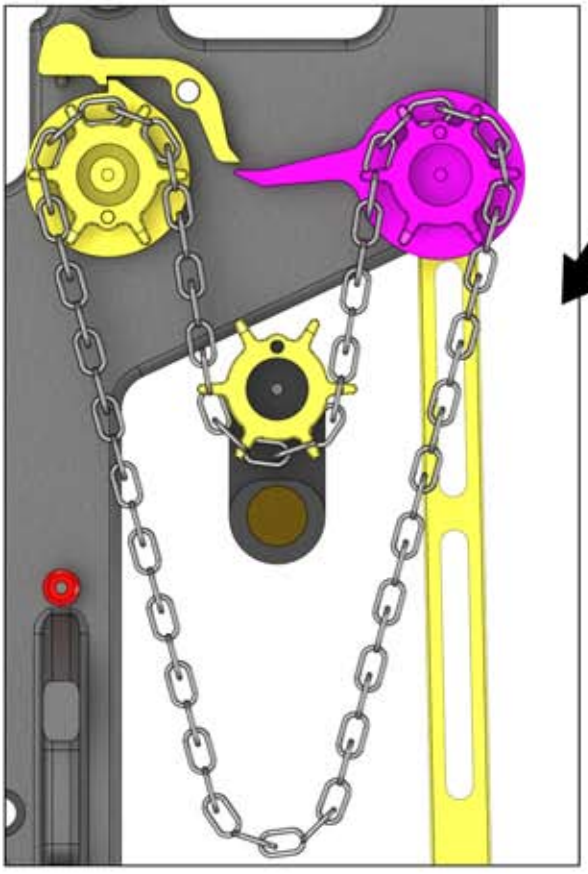
Assembly Sequence

Stage 8 Adjust

These three views show the Trigger in yellow on the Left and the Release Finger in purple on the right . The first view shows the finger after the final Tick before contact, the next view shows the finger having rotated halfway through the next tick where the Remontoire Drive has just been released.



The final picture shows the Escapement weight lifted to its topmost position and the Trigger dropped back to the lock position with the end of the trigger slipping above the finger, leaving it free to complete another 30 second cycle.

You may need to slightly adjust the contact faces with a file so that this sequence of release and re lock can happen.

Note the position of the escapement weight at the top and bottom of its stroke and adjust the chain on the sprockets to replicate this positioning.

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Assembly Sequence

Stage 9 Adjust the Pallets on the ends of the Escapement until you get the clock to Tick evenly. The nominal position which should work well when the clock is mounted exactly vertical. If the clock is not vertical move the pallets in or out to correct for this.