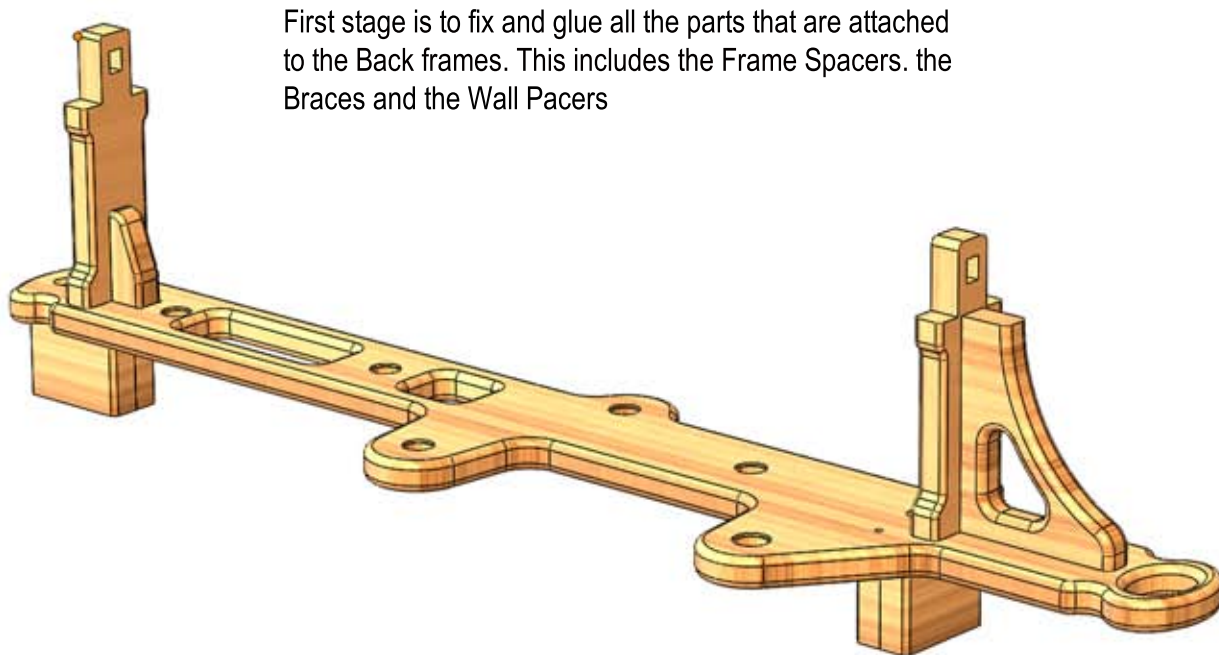
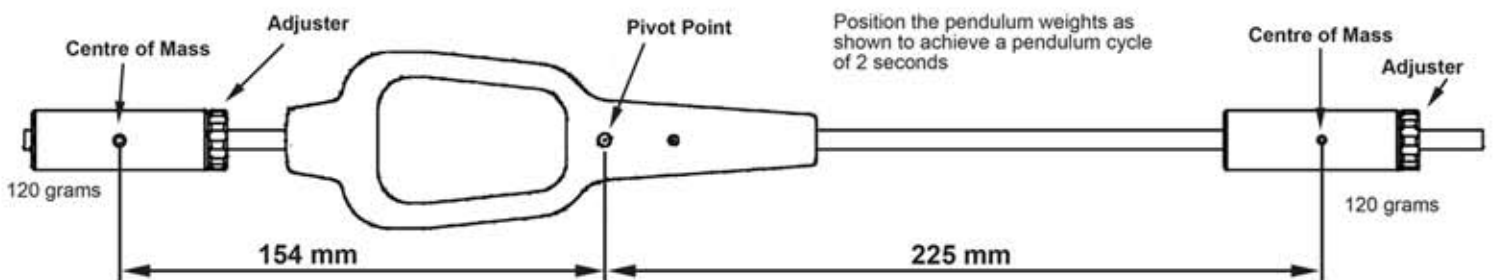
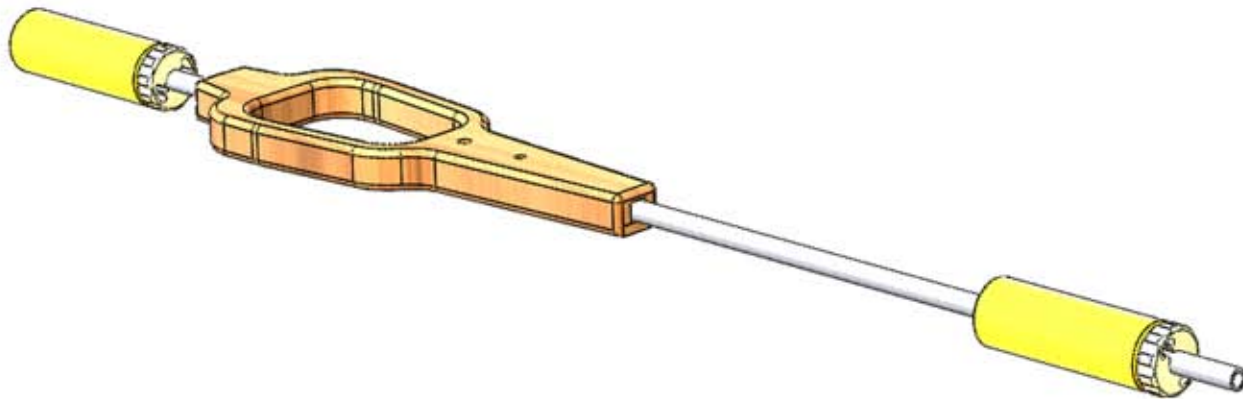


Brian Law's Wooden Clock 32 - with Compound Pendulum Assembly Sequence

Stage 1 Assemble and glue all frame parts

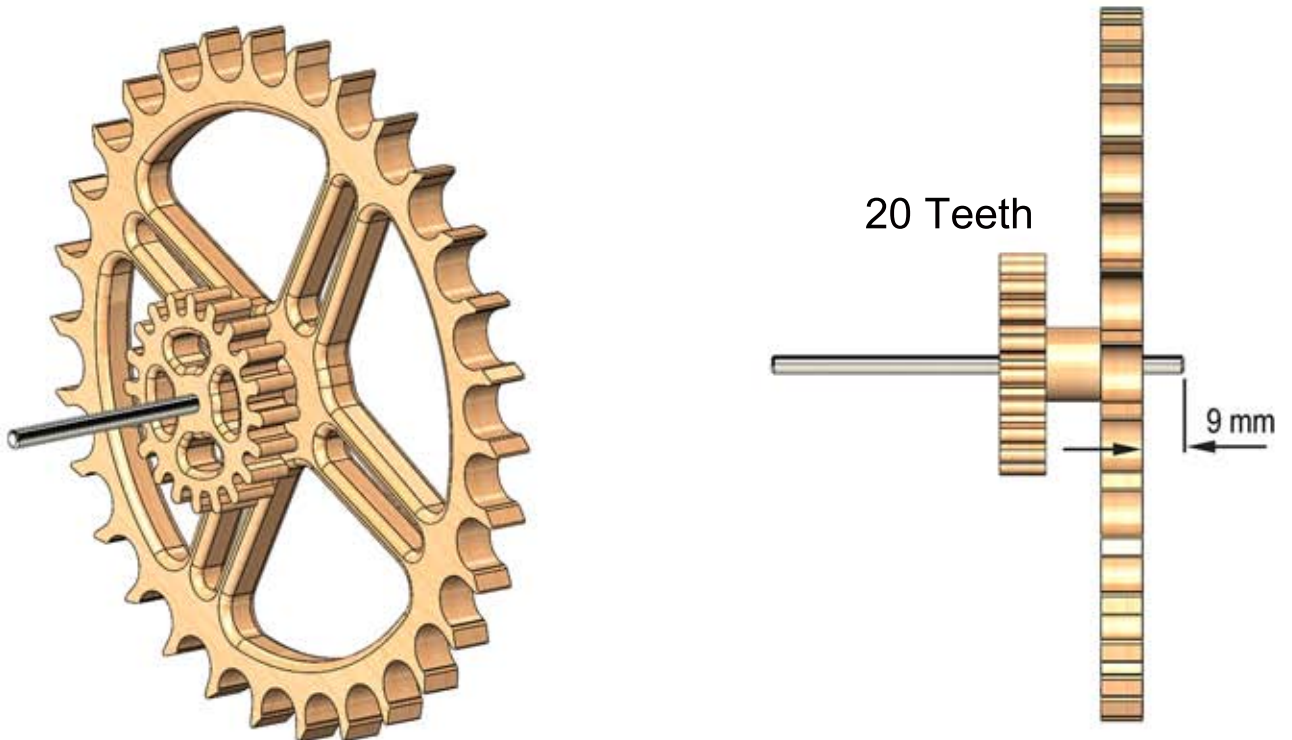
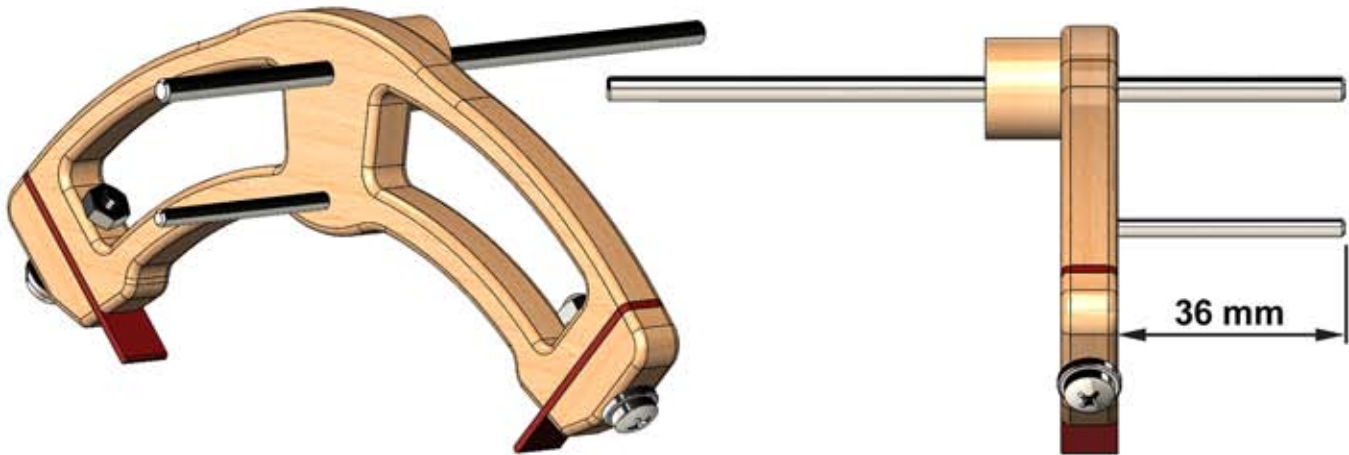


Stage 2 Assemble the Compound Pendulum



Brian Law's Wooden Clock 32 - with Compound Pendulum Assembly Sequence

Stage 3 Assemble the Escapement Arm and Escape wheel

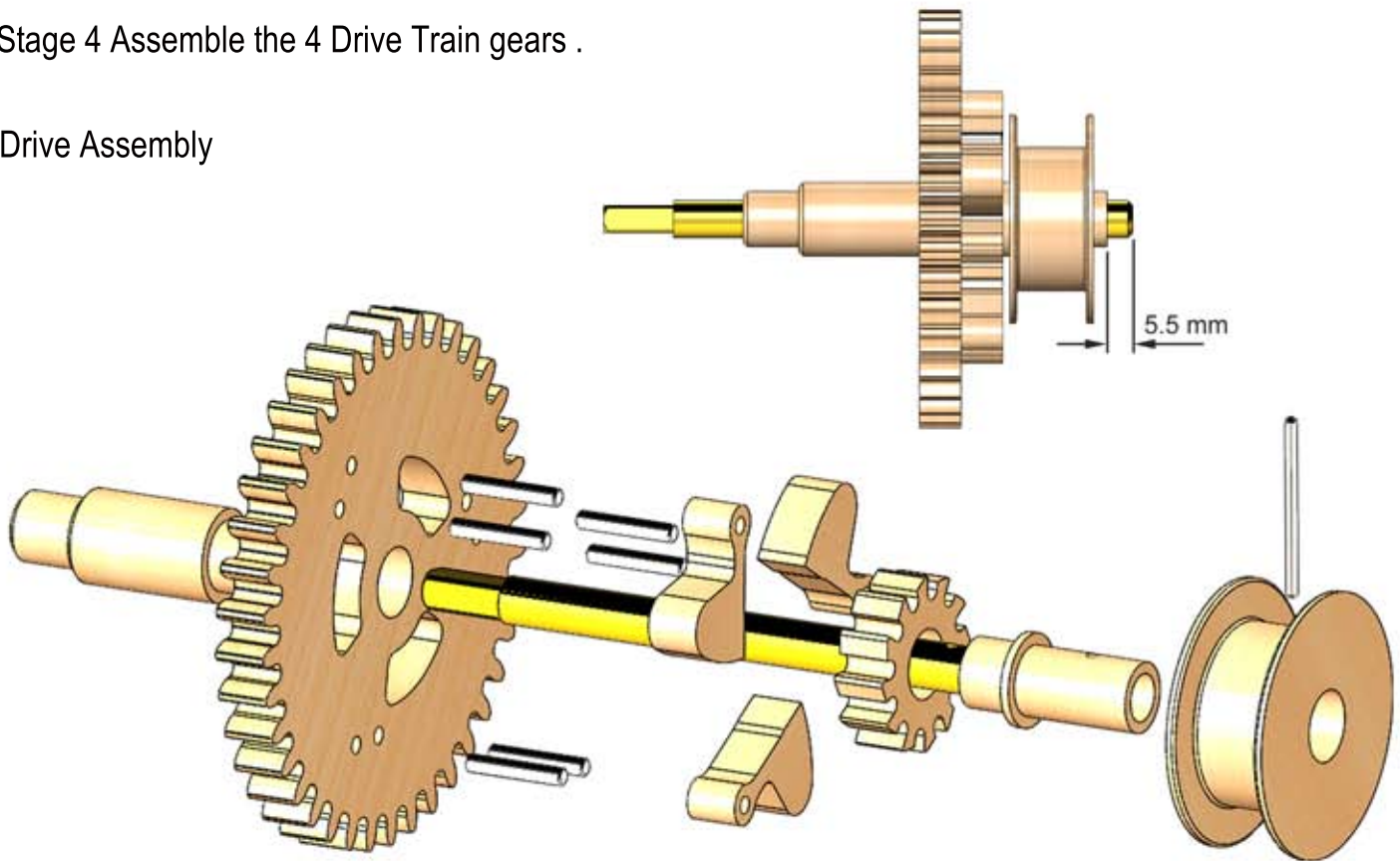


Assemble the Escape Wheel and the 20 Toothed gear with a 12 mm spacer to the shaft as shown

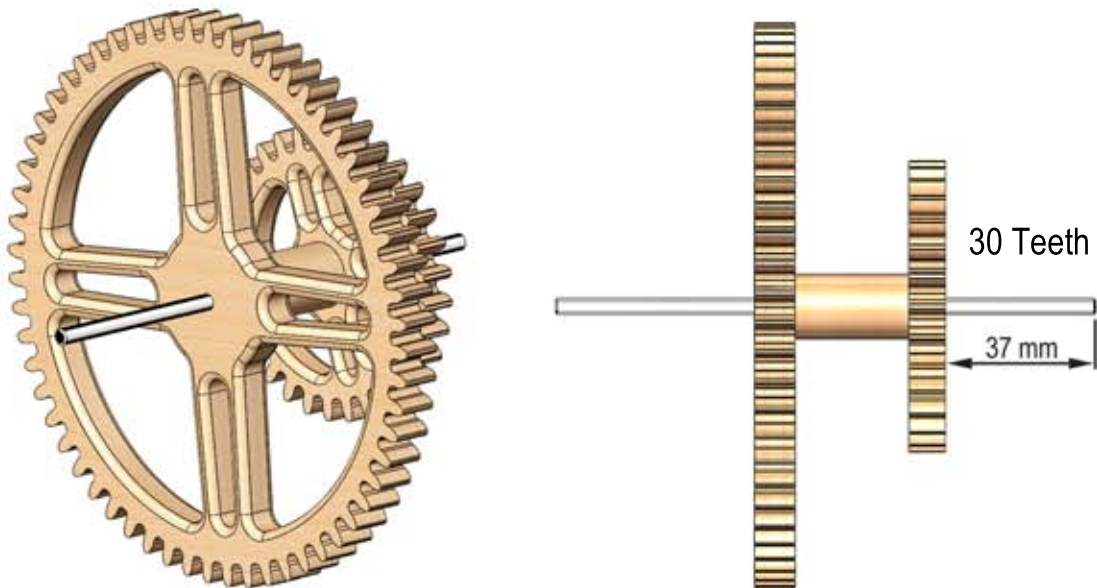
Brian Law's Wooden Clock 32 - with Compound Pendulum Assembly Sequence

Stage 4 Assemble the 4 Drive Train gears .

Drive Assembly

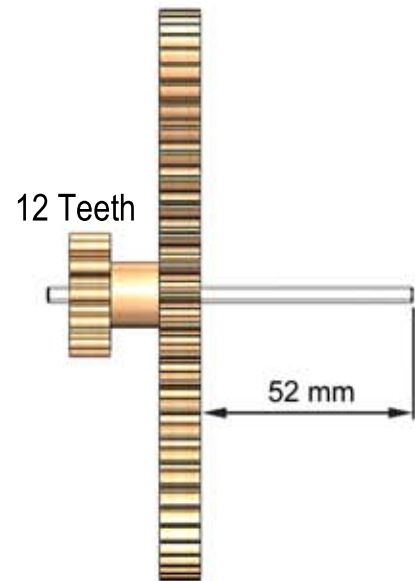
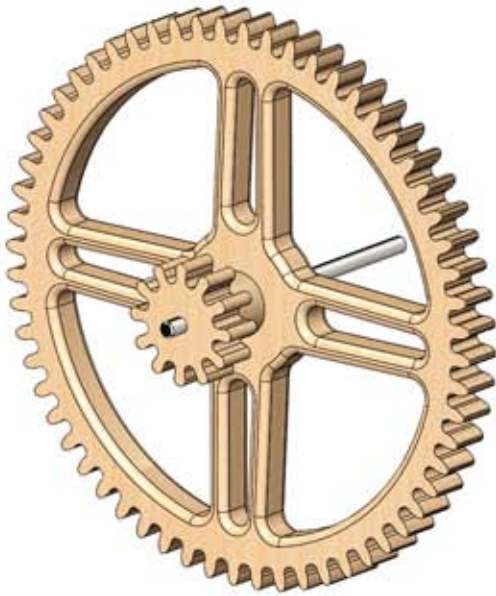


Drive Train 1

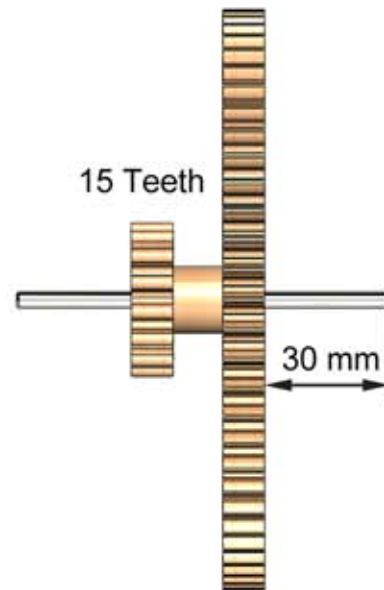
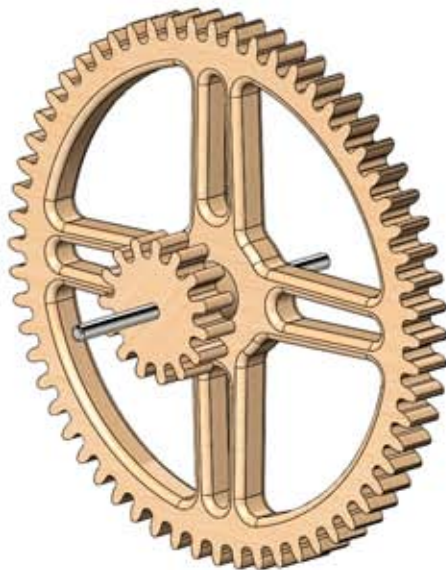


Brian Law's Wooden Clock 32 - with Compound Pendulum Assembly Sequence

Drive Train 2



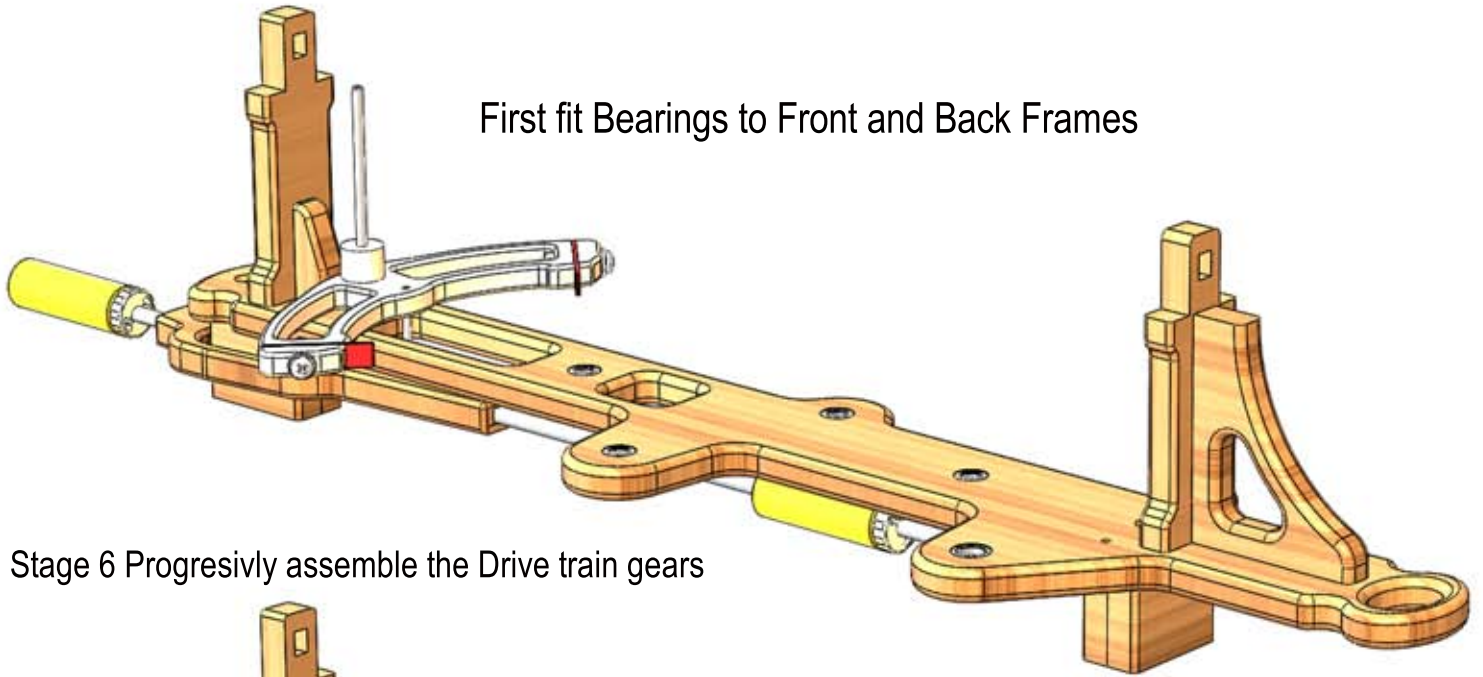
Drive Train 3



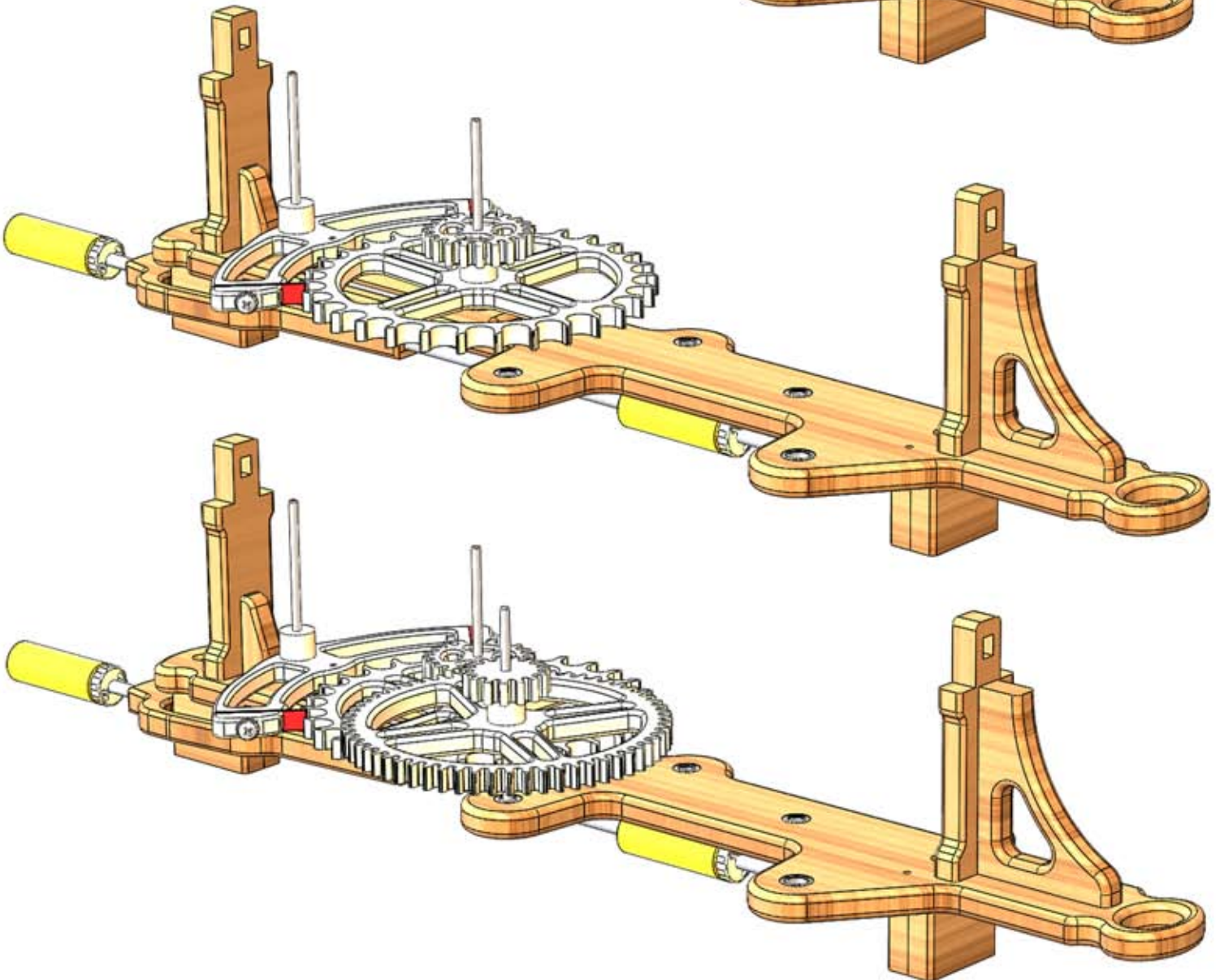
Brian Law's Wooden Clock 32 - with Compound Pendulum Assembly Sequence

Stage 5 Assemble the Escapement and the Pendulum through the Back Frame

First fit Bearings to Front and Back Frames

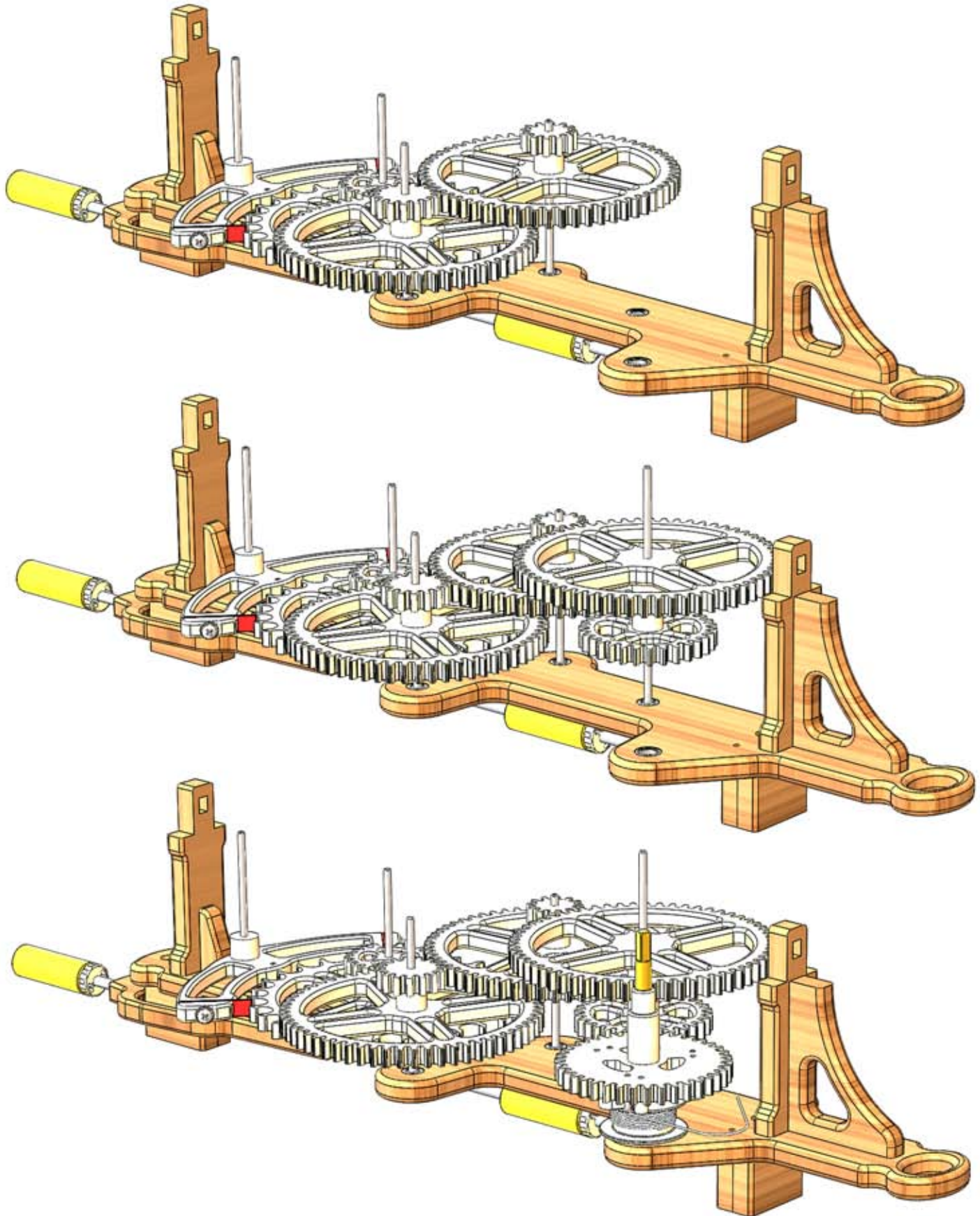


Stage 6 Progressivly assemble the Drive train gears



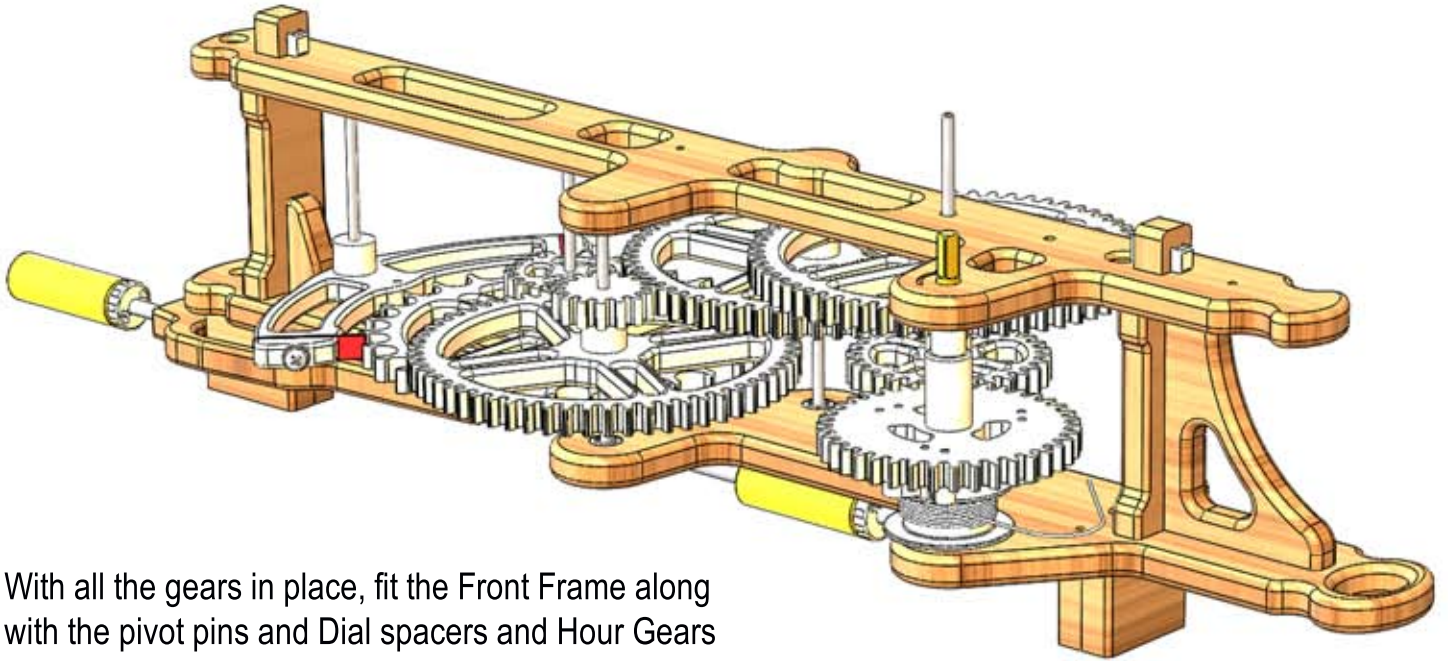
Brian Law's Wooden Clock 32 - with Compound Pendulum Assembly Sequence

Stage 6-continued - Progressivly assemble the Drive train gears

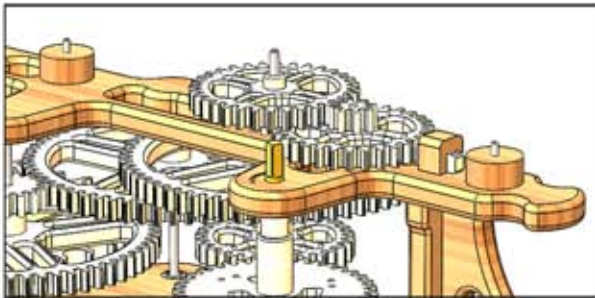


Brian Law's Wooden Clock 32 - with Compound Pendulum Assembly Sequence

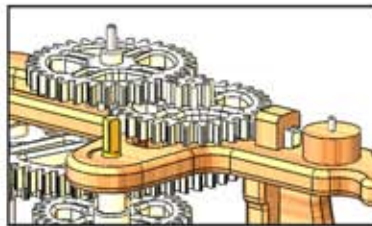
Stage 7 Fit Front Frame with Wedges, Pivots, Dials and Hands



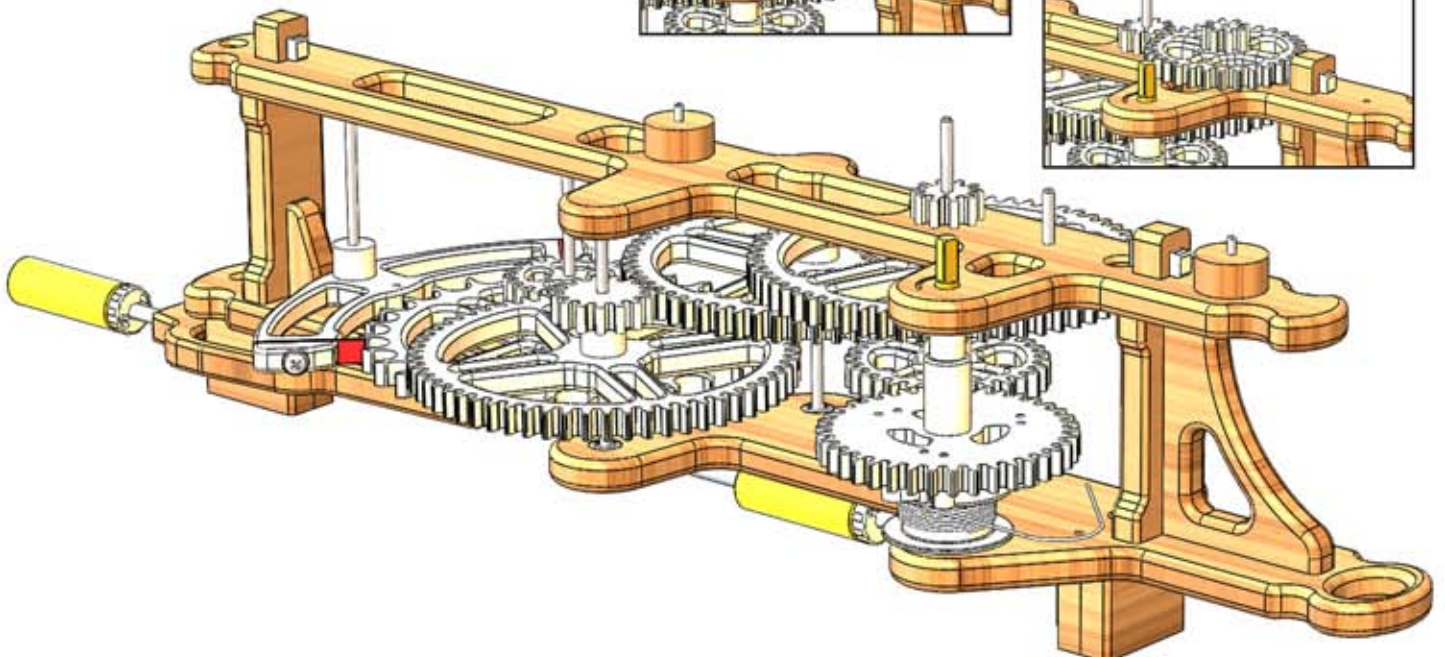
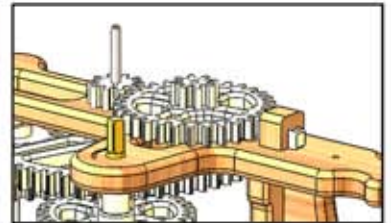
With all the gears in place, fit the Front Frame along with the pivot pins and Dial spacers and Hour Gears



Fit the Dial Spacers

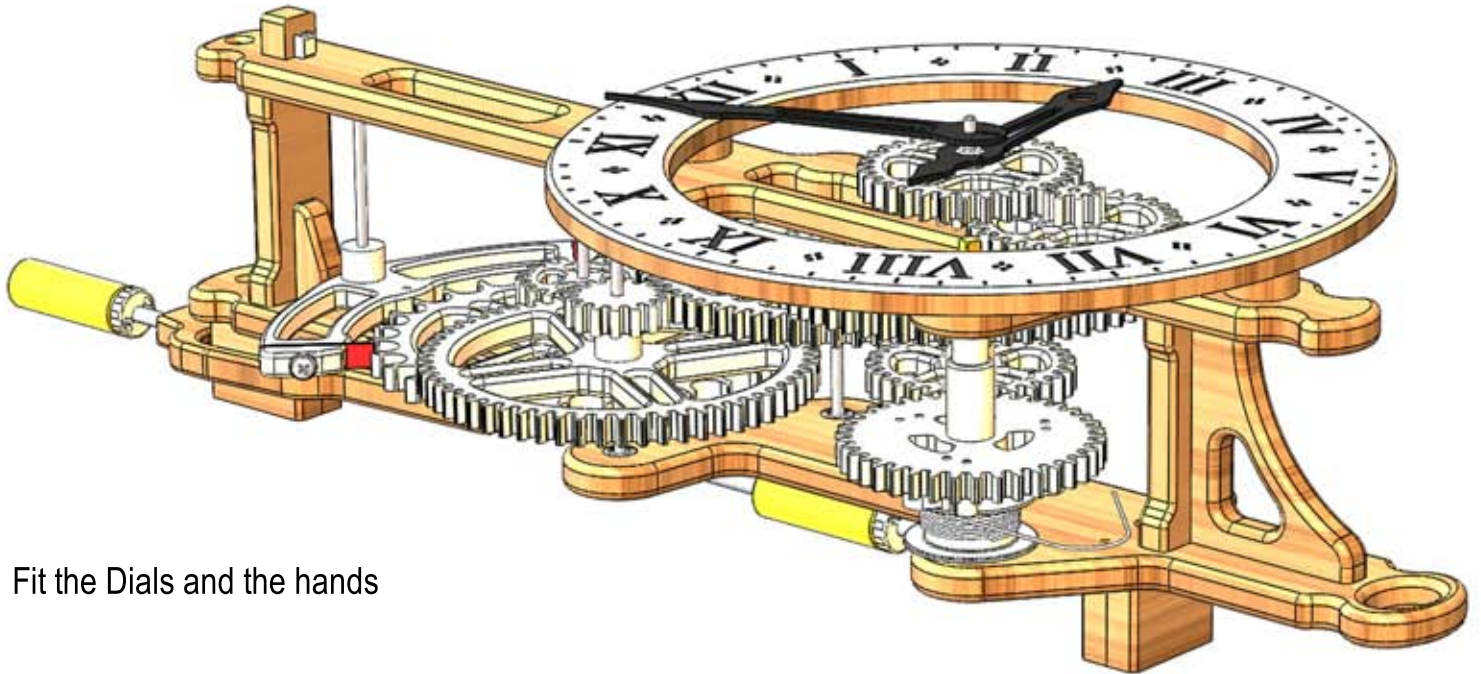


Add the Hour Gears



Brian Law's Wooden Clock 32 - with Compound Pendulum Assembly Sequence

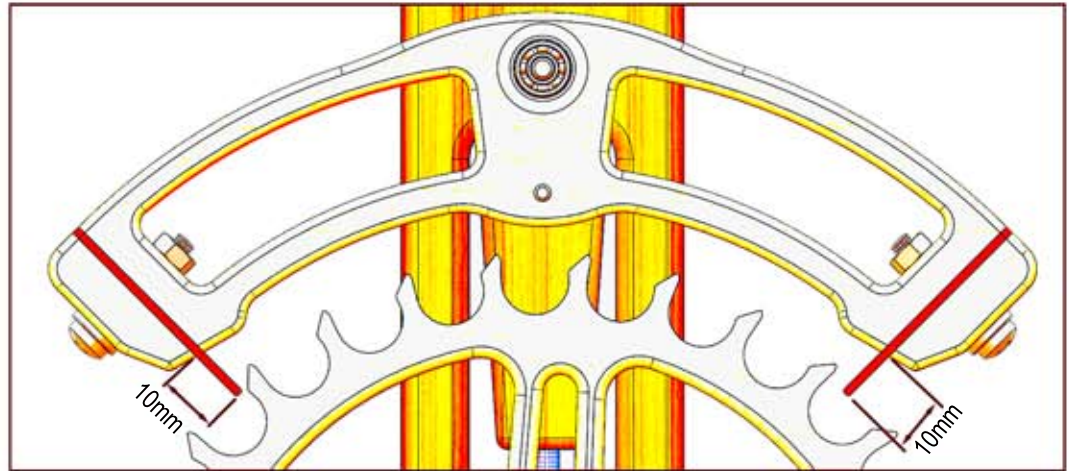
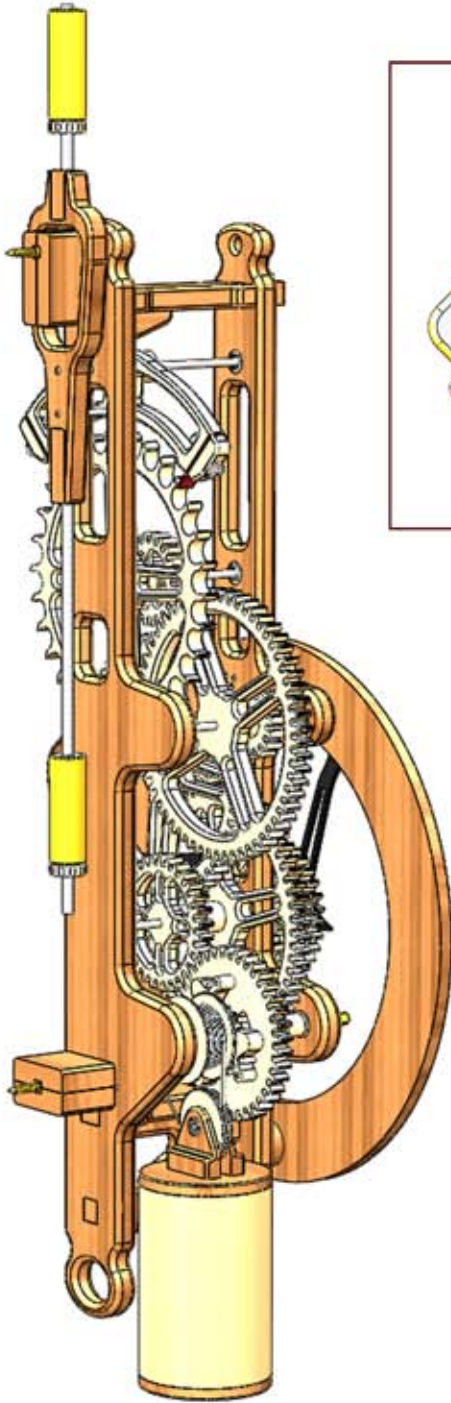
Stage 7 continued - Fit Front Frame with Wedges, Pivots, Dials and Hands



Fit the Dials and the hands

Brian Law's Wooden Clock 32 - with Compound Pendulum Assembly Sequence

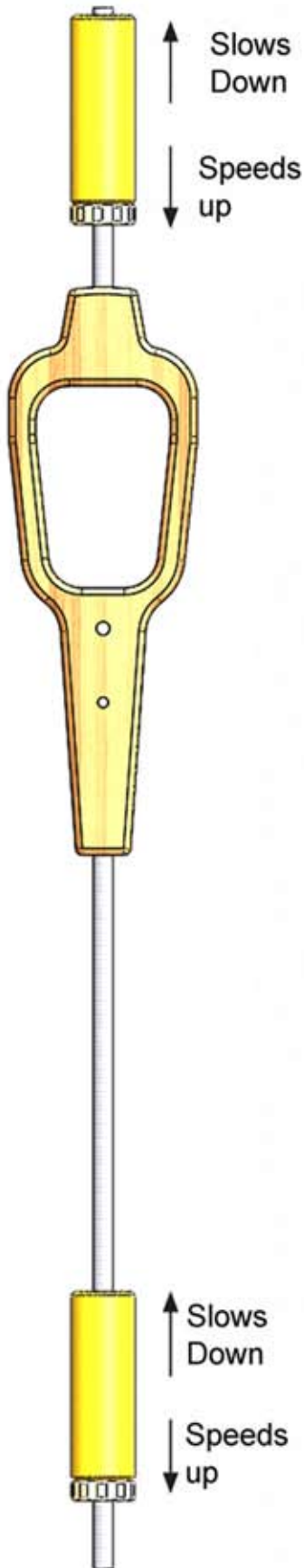
Stage 8 Mount Clock to the wall and hang the weights from the cord around the drum.



Stage 9 Adjust the escapement

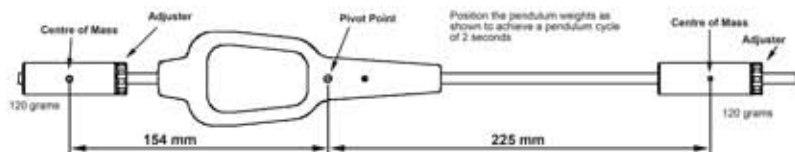
Once the clock is assembled and running, you will need to check that the escapement is working correctly. The initial set up is as shown above and if that were to be running, you would here a nice even Tick-Tock. If your clock is not running evenly you will need to adjust the Pallets by moving them in or out in small steps, one at a time until you get that even regular beat.

Brian Law's Wooden Clock 32 - with Compound Pendulum Assembly Sequence



To adjust the rate at which the clock runs you will need to move the Pendulum Bobs up or down according to whether you need to speed the clock up or slow it down. From the diagram on the left you can see which way you will need to move the Bob in order to increase or decrease the rate. You need only move one of the Bobs at a time, the top one is easier to get to but the adjustment will be coarser, the bottom harder to get to but you can make finer adjustments.

The design shown here is using a Carbon Fibre tube and friction rings to adjust the settings, but it would be easier if threaded rod was used and the Bobs tapped, so a screw adjustment could be made.



The diagram above shows the nominal positions for the Pendulum Bobs when making the initial set up. The positions were calculated using this Excel file.

<https://drive.google.com/file/d/0BzxNb7liHhYNXzl2b3k2bXZXWUk/view?usp=sharing>