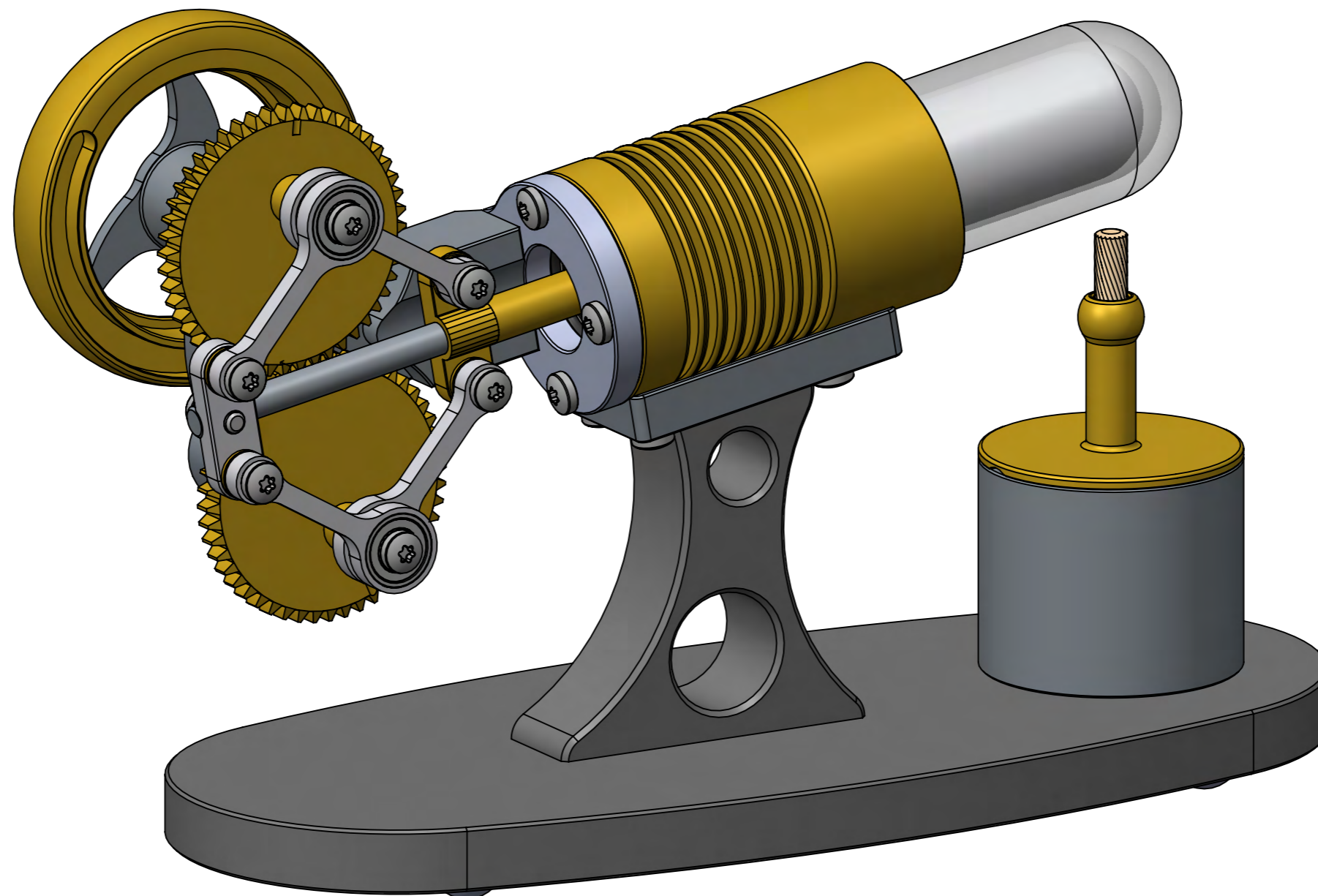


# Nano Rhombic operation and maintenance instructions

- **Make sure you have a suitable fire extinguisher to hand in case of emergencies.**
- **Never leave a running engine or naked flame unattended.**
- **Parts of the engine will be very hot while in operation and will take time to cool down.**
- **Make sure children are fully supervised.**
- **Ensure burner is extinguished after use.**
- **Take care the engine doesn't vibrate itself off your table.**

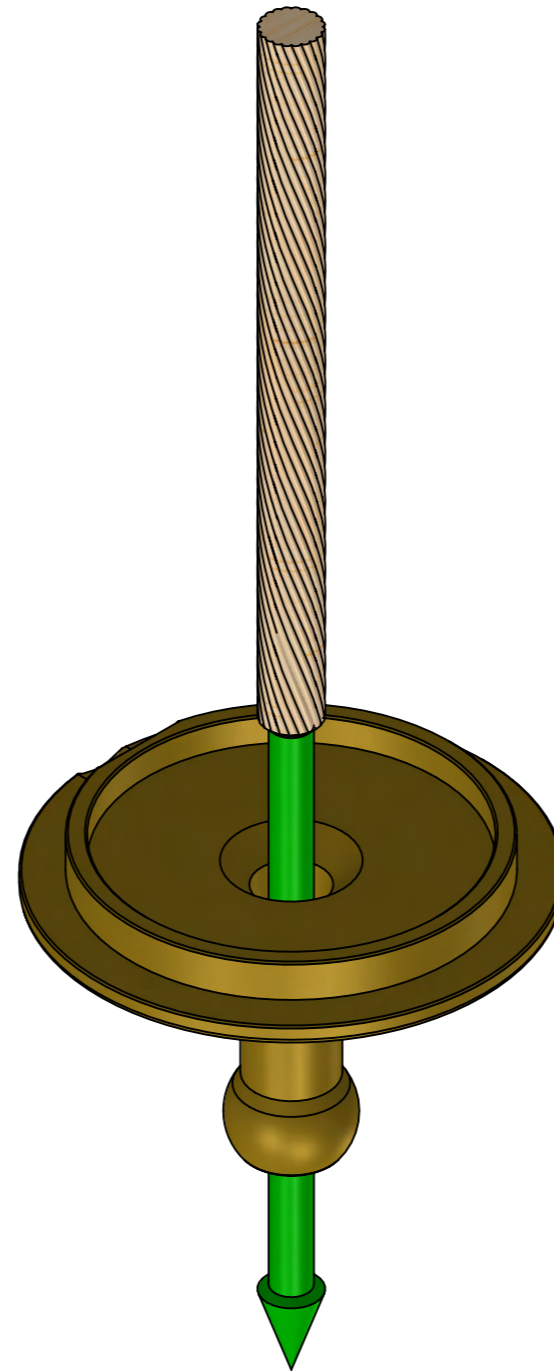


Insert the prepared end of the wick into the burner cap, a pushing and twisting motion works best.

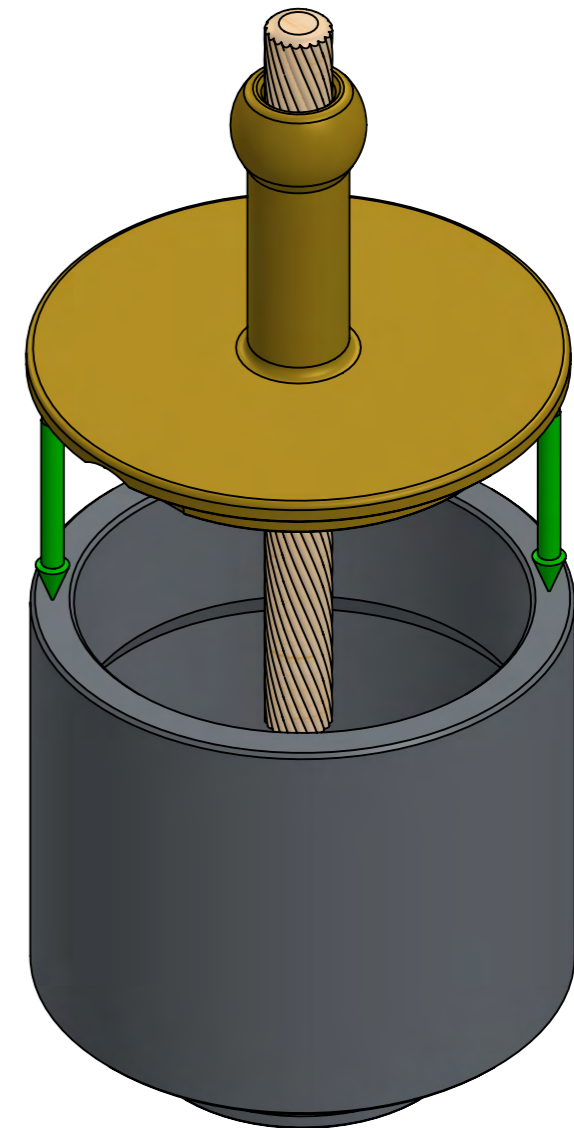
There must be 3-4mm of wick protruding from the top of the burner cap for efficient running.

If the top end of the wick is frayed you will need to burn off the loose fibres, allow to cool, and then roll the end into a blunt point.

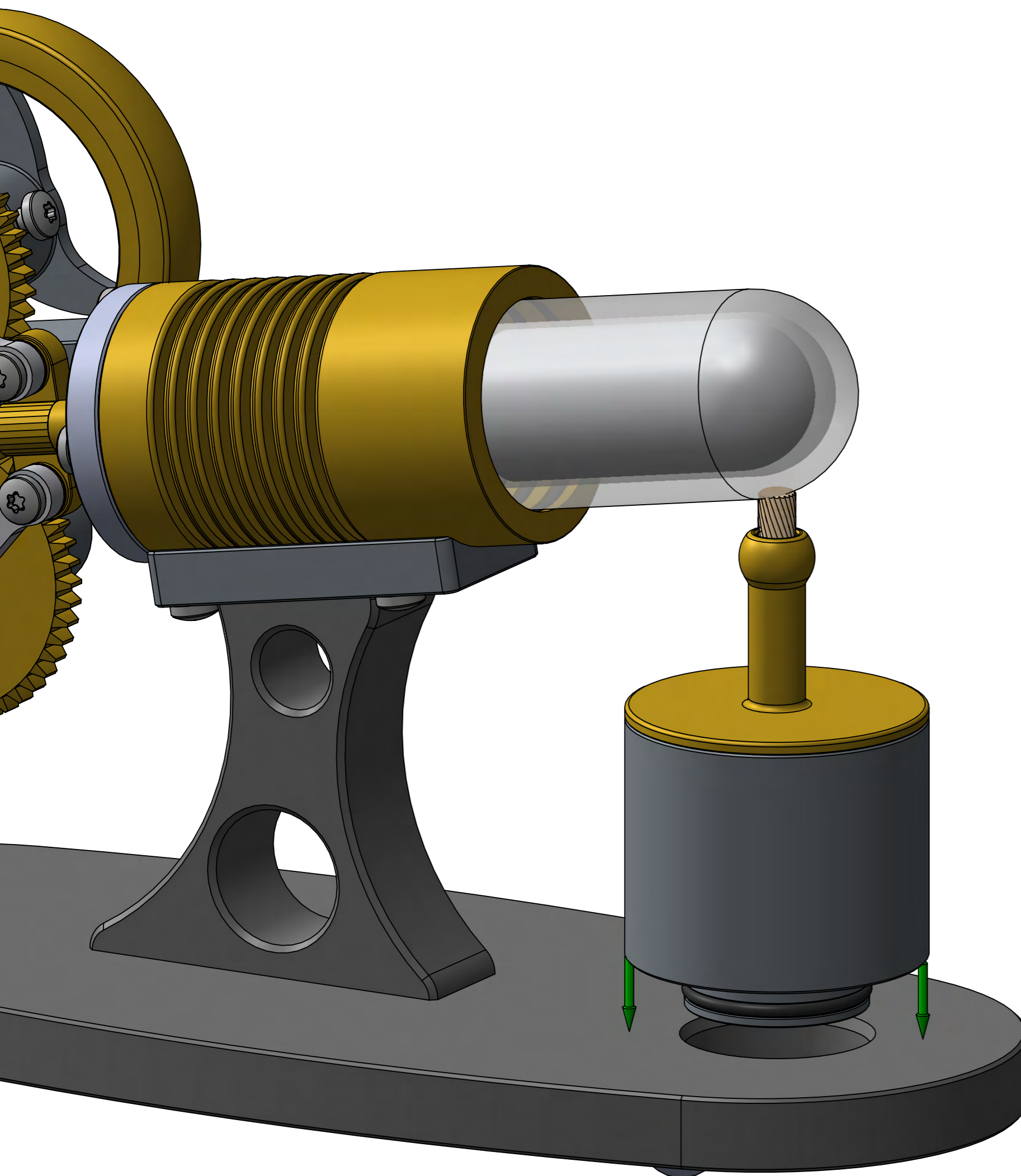
**ONLY EVER PERFORM THIS STEP ON DRY WICK, NEVER ON WICK THAT HAS BEEN SOAKED IN FUEL.**



Insert wick



Insert cap



Wipe a couple of drops of soapy water on the O ring in the burner body for lubrication.

Insert the burner body into the base, a pushing and twisting motion works best. Take care that the O ring does not become pinched.

Wipe off any excess water afterwards.

The engine uses Methylated Spirits or Denatured Alcohol as fuel.

***NOTE: the oil supplied with the engine is for lubrication only and should NEVER be used as fuel.***

Remove the burner cap from the burner body and trim the wick to 4mm protruding from the top and 15mm-30mm from the bottom. Any more than 4mm from the top could cause the engine to run too fast.

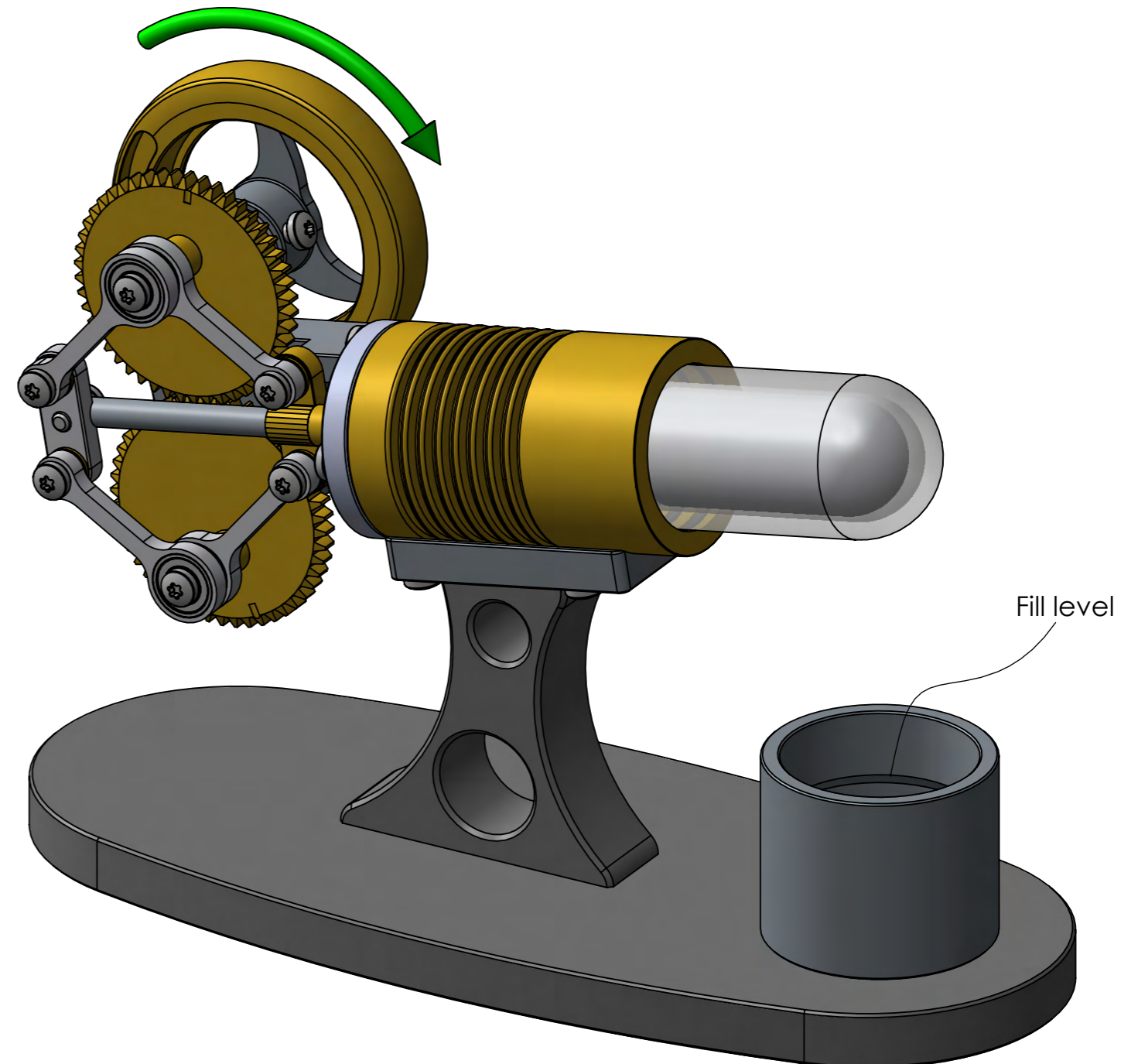
Fill the burner body with fuel to the fill level AND NO MORE. Fit the burner cap back in the burner body and wait 1 minute for the wick to soak up the fuel.

Light the wick and allow 3-4 minutes for the engine to warm up. Hold the base firmly down and give the flywheel a spin in the direction shown. It may take several spins to get the engine going. The engine should start up and run for about 10-15 minutes before the fuel runs out.

It is best to extinguish the flame before the fuel runs out completely to save the wick from smouldering down to the top of the burner cap.

If you find the engine is revving too fast and vibrating across your table you can shorten the wick to give a smaller flame.

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- **Ensure burner is extinguished after use.**
- **Take care the engine doesn't vibrate itself off your table.**



## MAINTENANCE AND OILING

After about 1 hour of run time the joints might need a single drop of the supplied oil.

Apply a single drop of oil to each of the seven joints as shown.

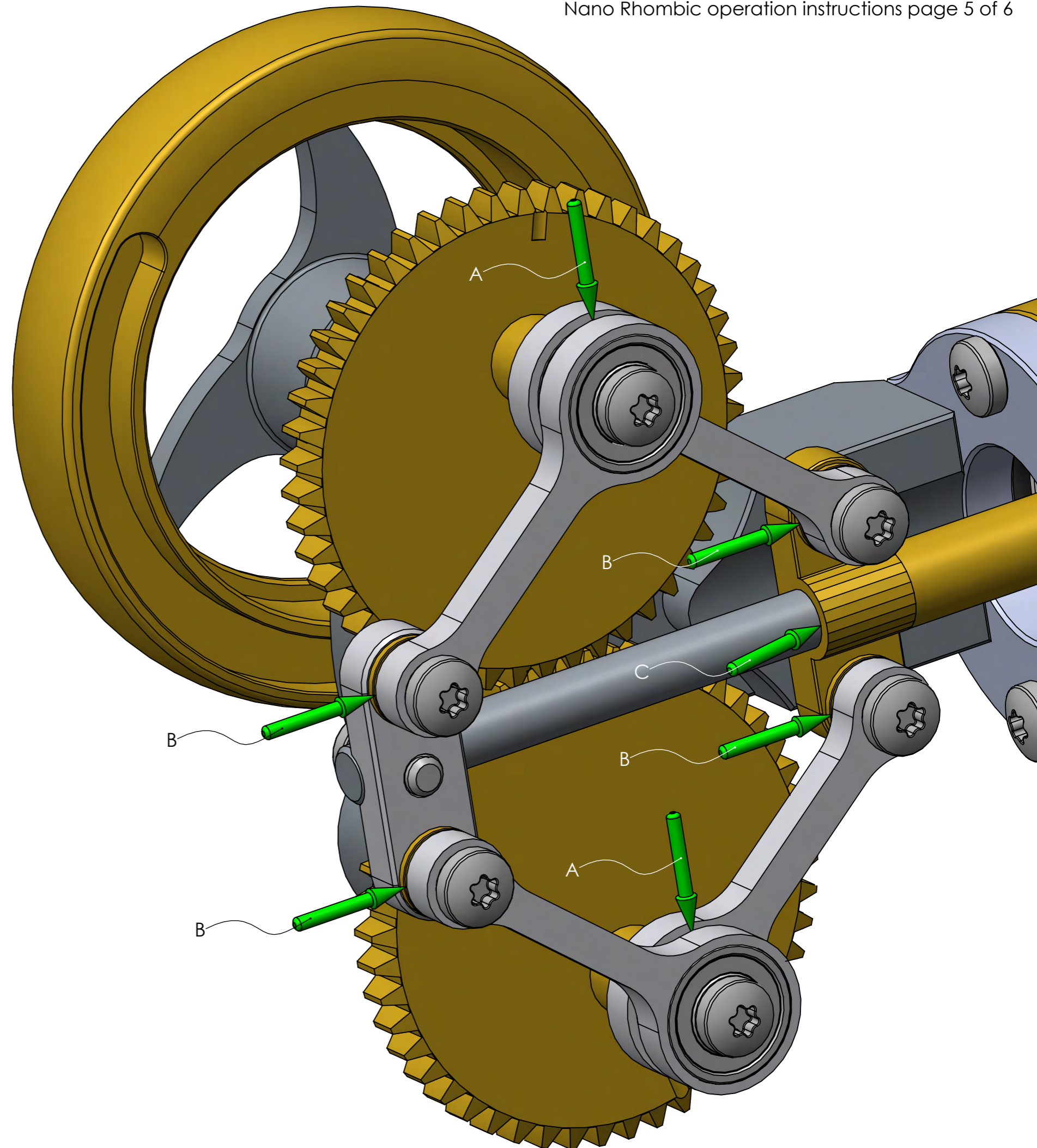
Joints A: 1 drop on the joint between the connecting rods.

Joints B: 1 drop between the connecting rod ends and the brass bushing.

Joint C: 1 drop where the rod slides in the brass bushing.

After applying the oil a few rotations of the engine will allow the oil to penetrate the joints.

**NOTE: the oil supplied with the engine is for lubrication only and should NEVER be used as fuel.**





Our workshop is located in the Thames Valley, United Kingdom and is staffed by a skilled team of 9 designers, machinists and assemblers. We have 4 CNC mills, 3 CNC lathes and 3 CNC mill-turn centres.