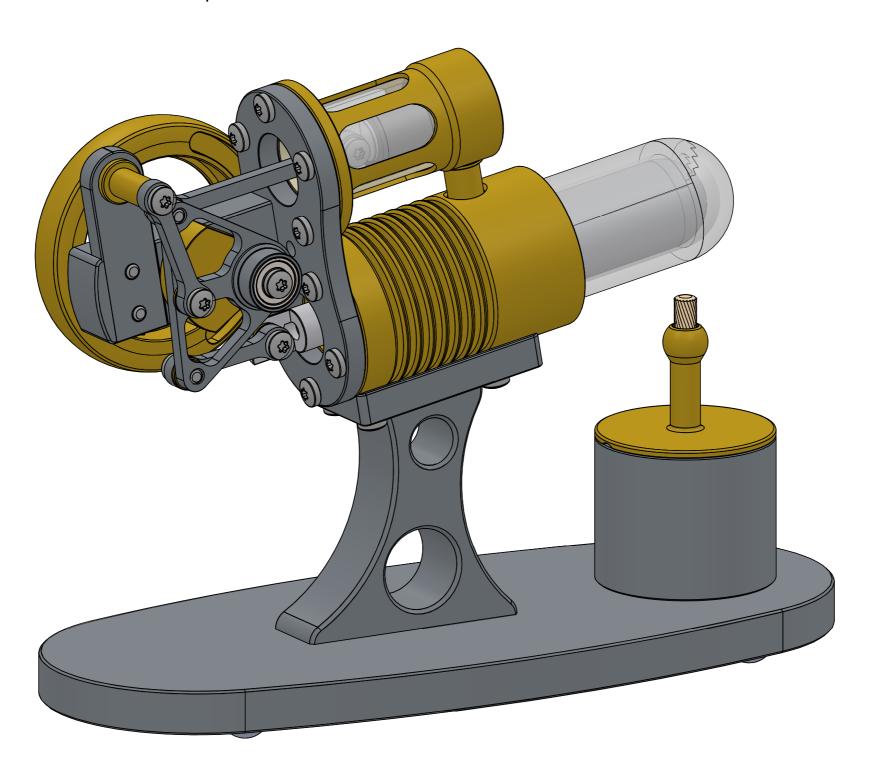
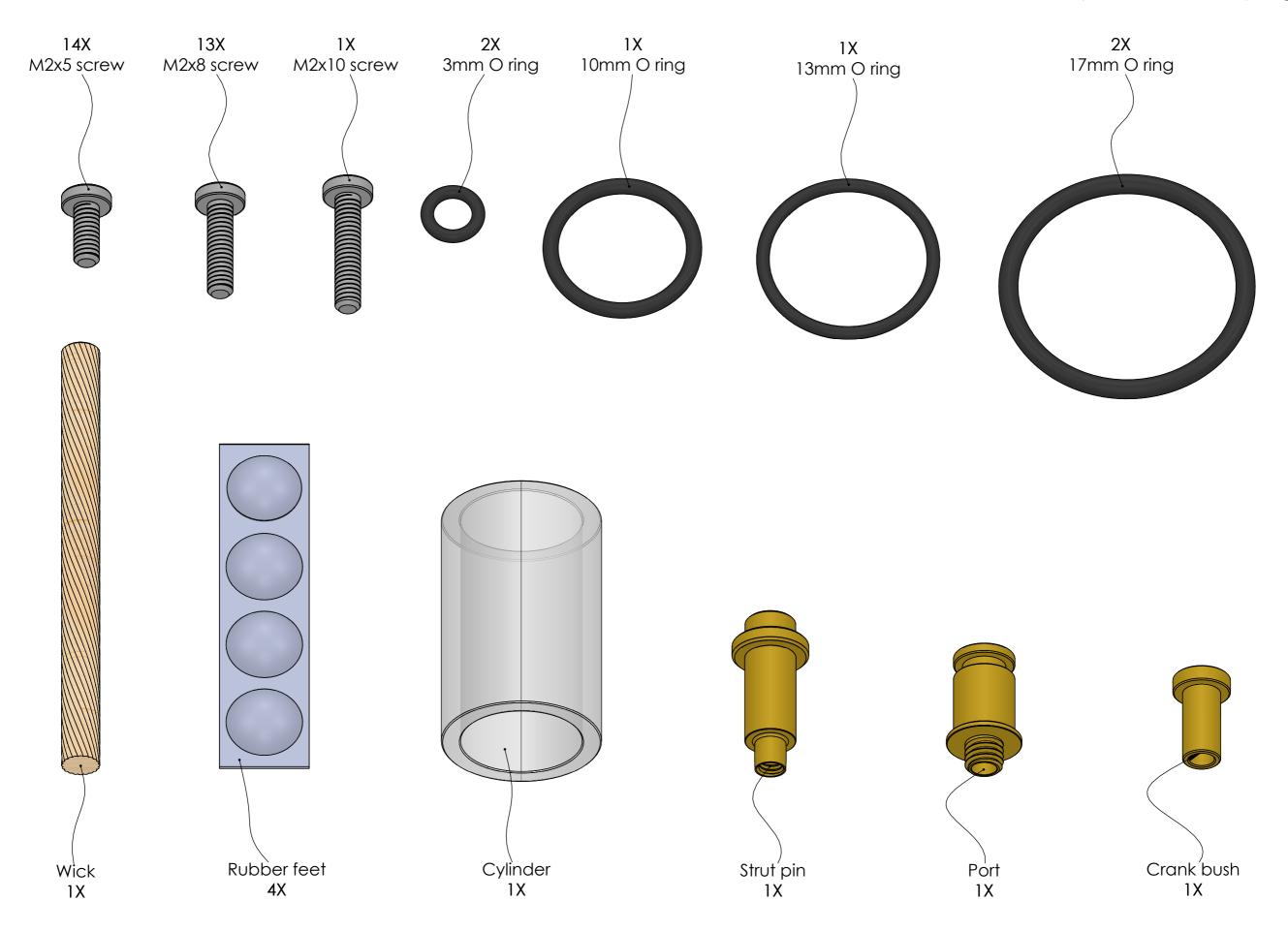
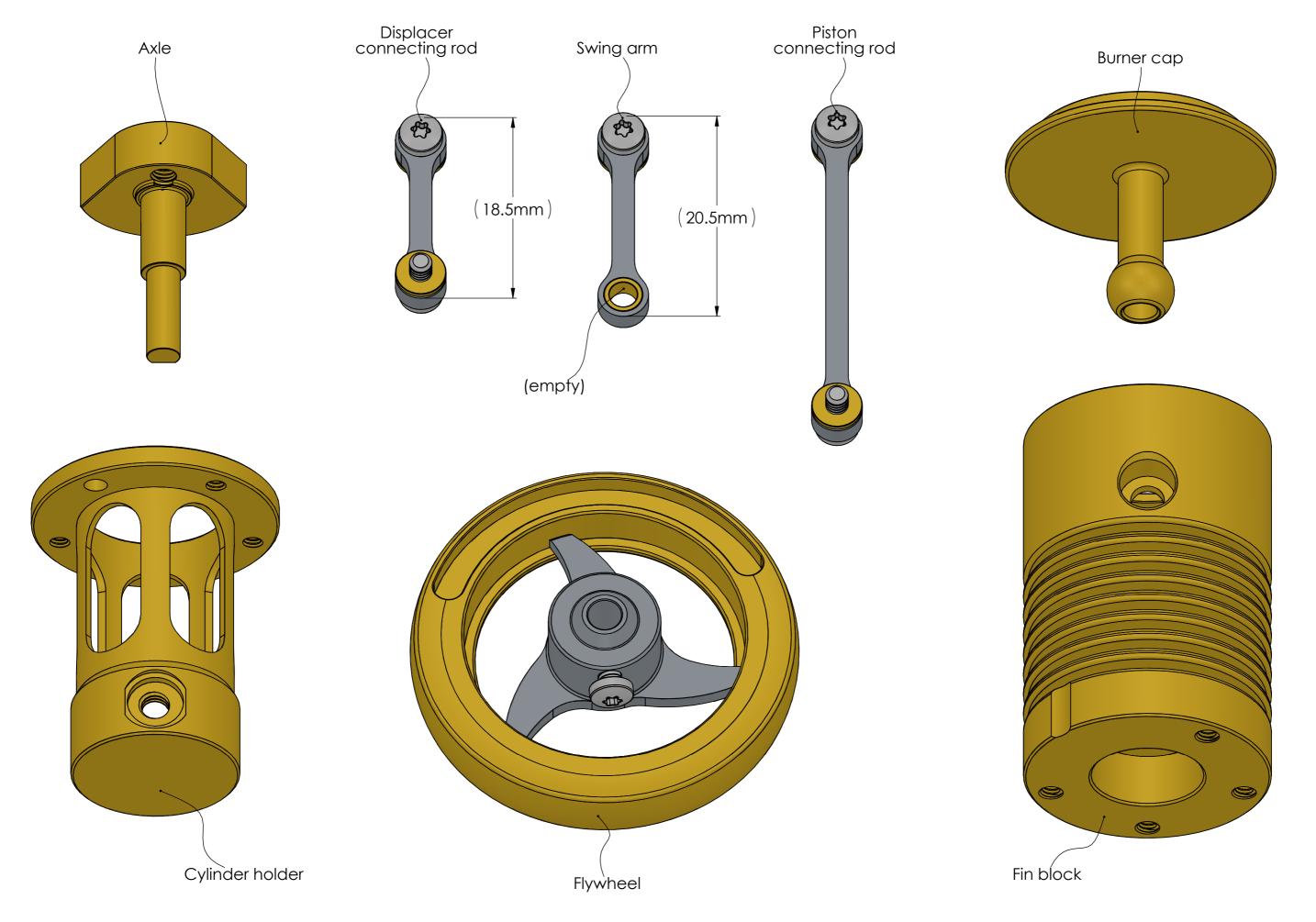
Please read all the way through the assembly instructions to familiarise yourself with the process before you start.

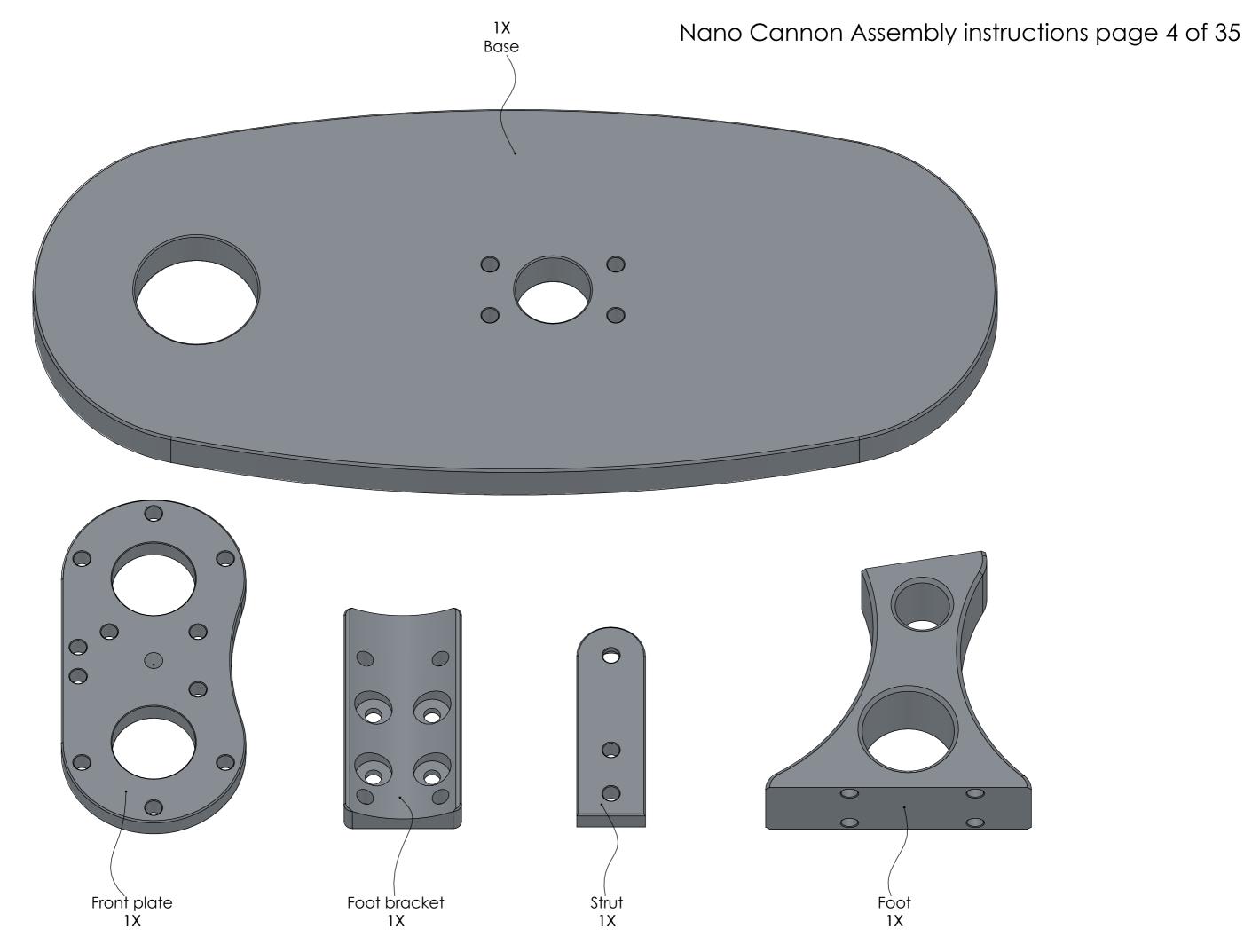
Pay close attention to the alignment of all the parts in the diagrams.

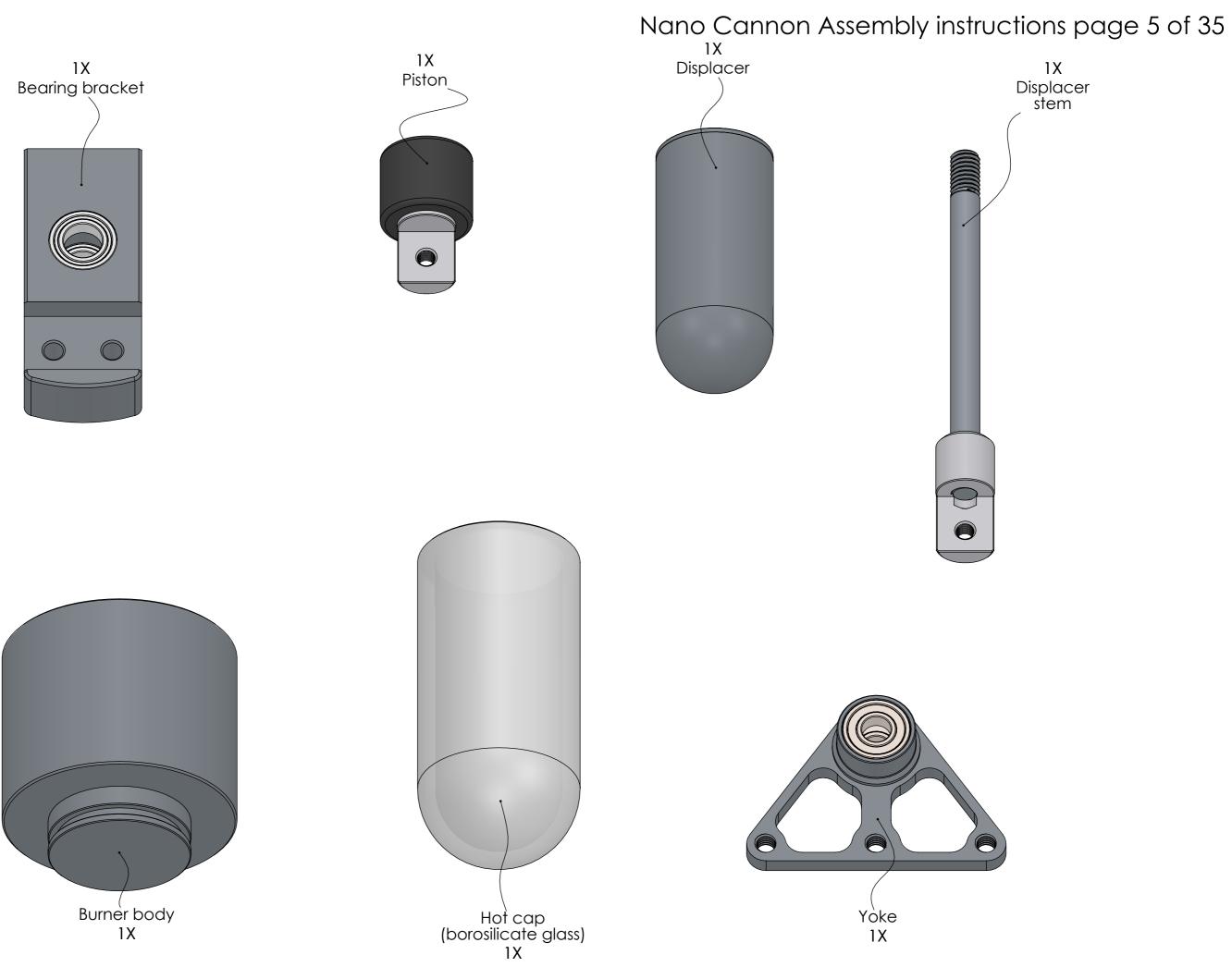
Maintenance and operation instructions can be found at the end of this document.

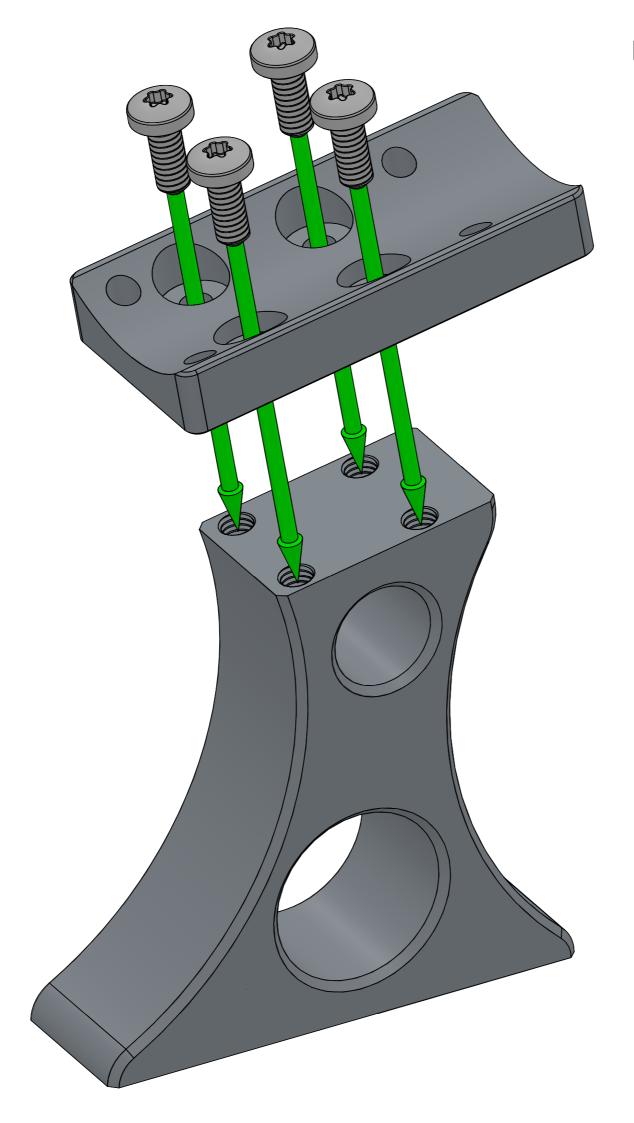




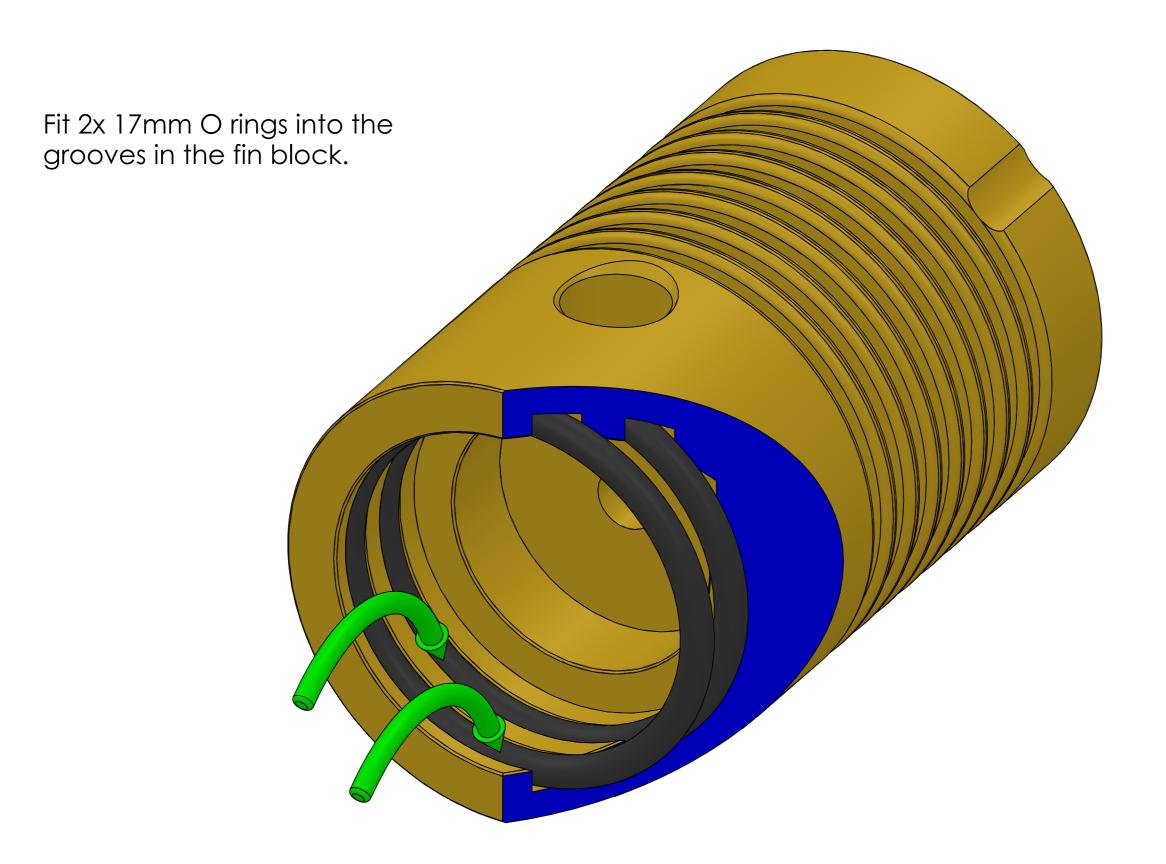






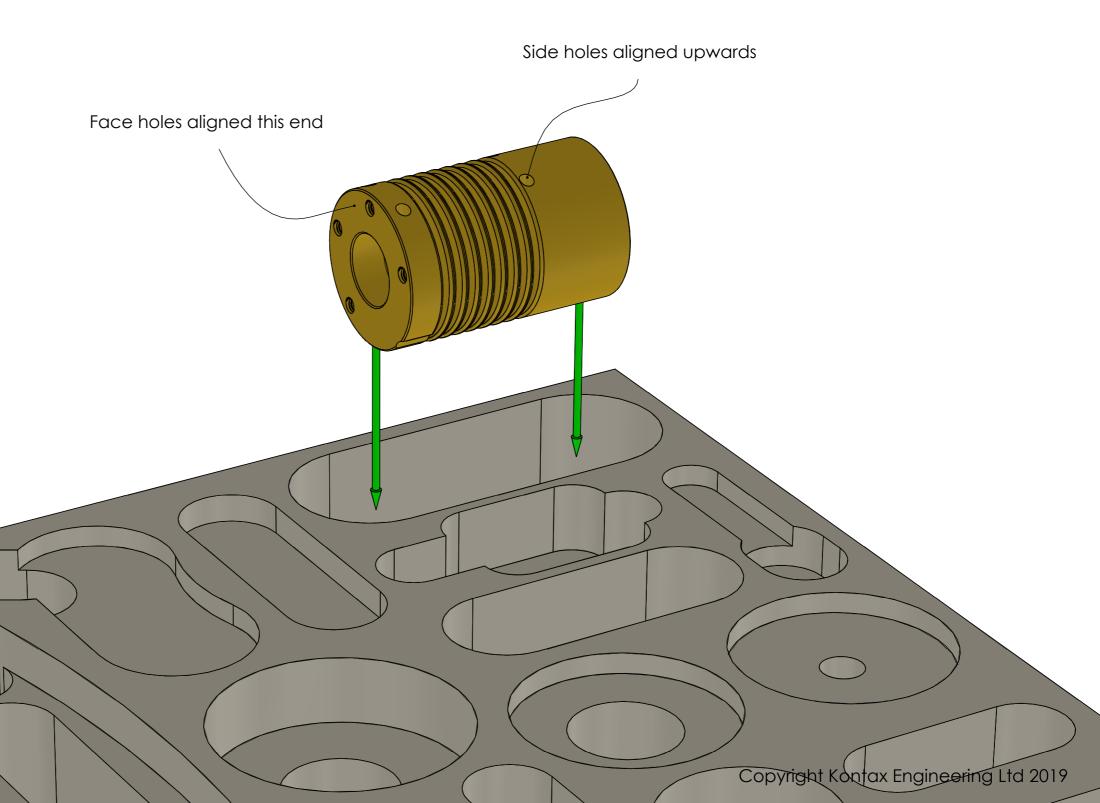


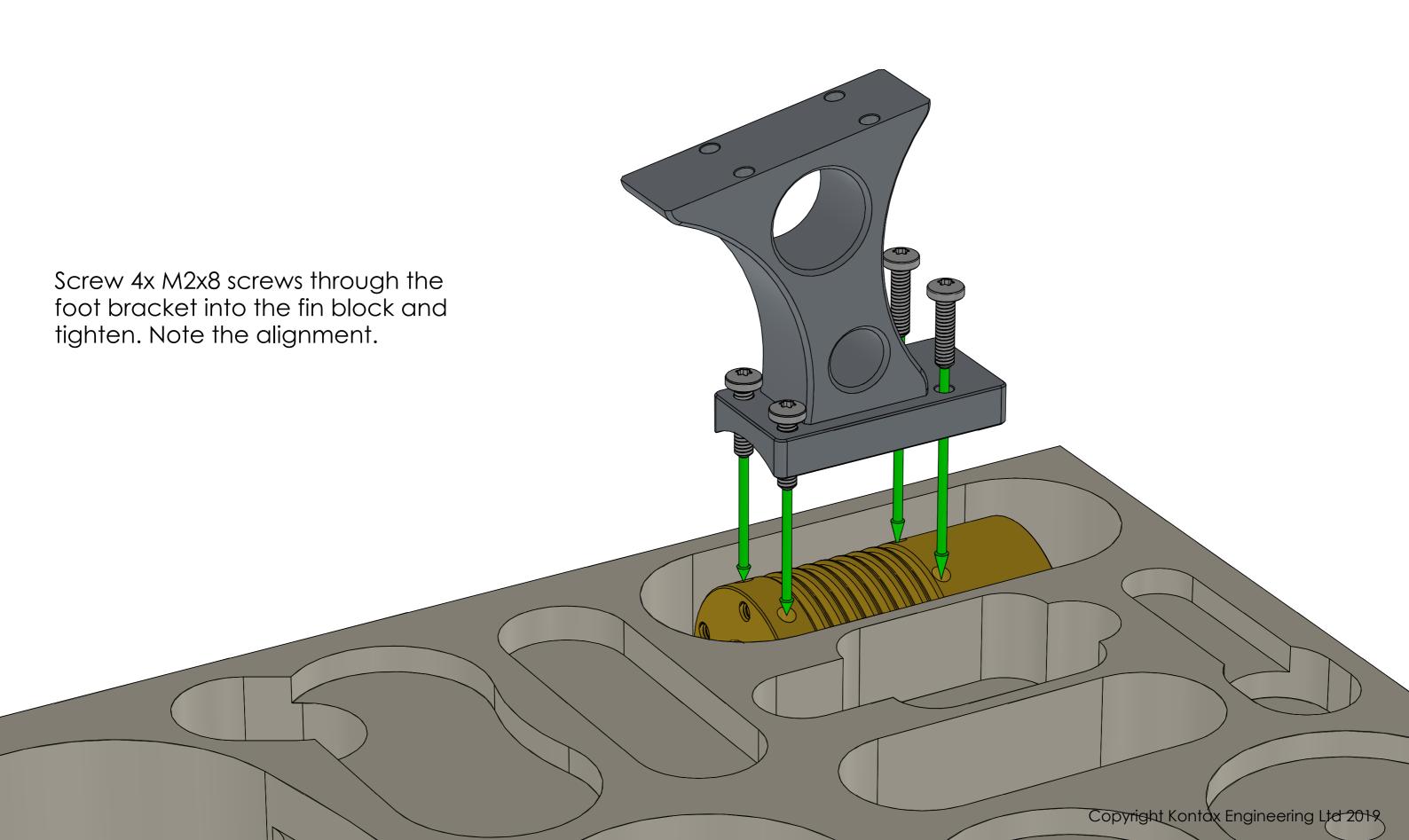
Screw 4x M2x5 screws through the foot bracket into the foot and tighten.

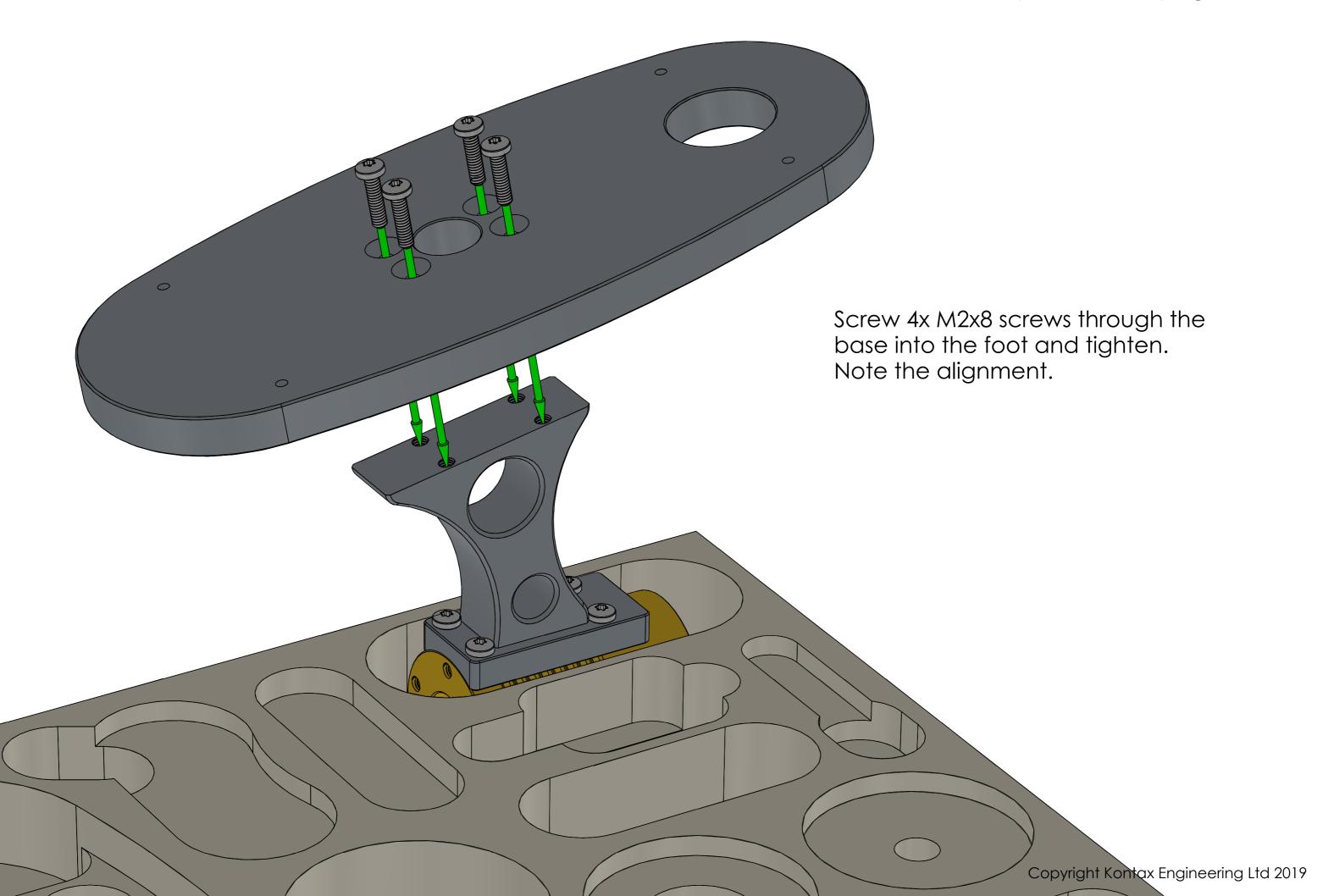


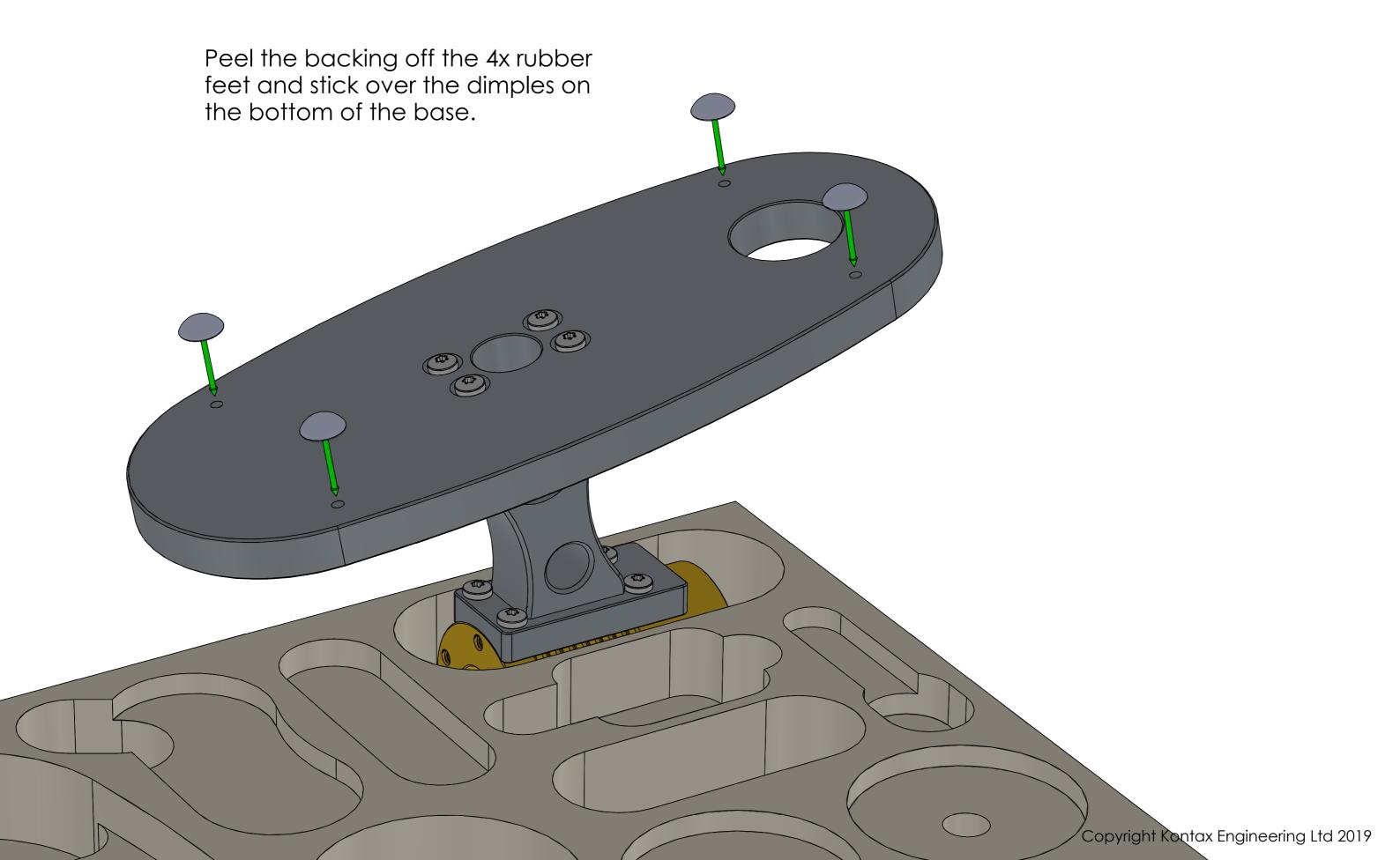
Push the fin block into the pocket in the packing tray. This will hold it still while you perform the next couple of assembly stages.

Note the alignment.



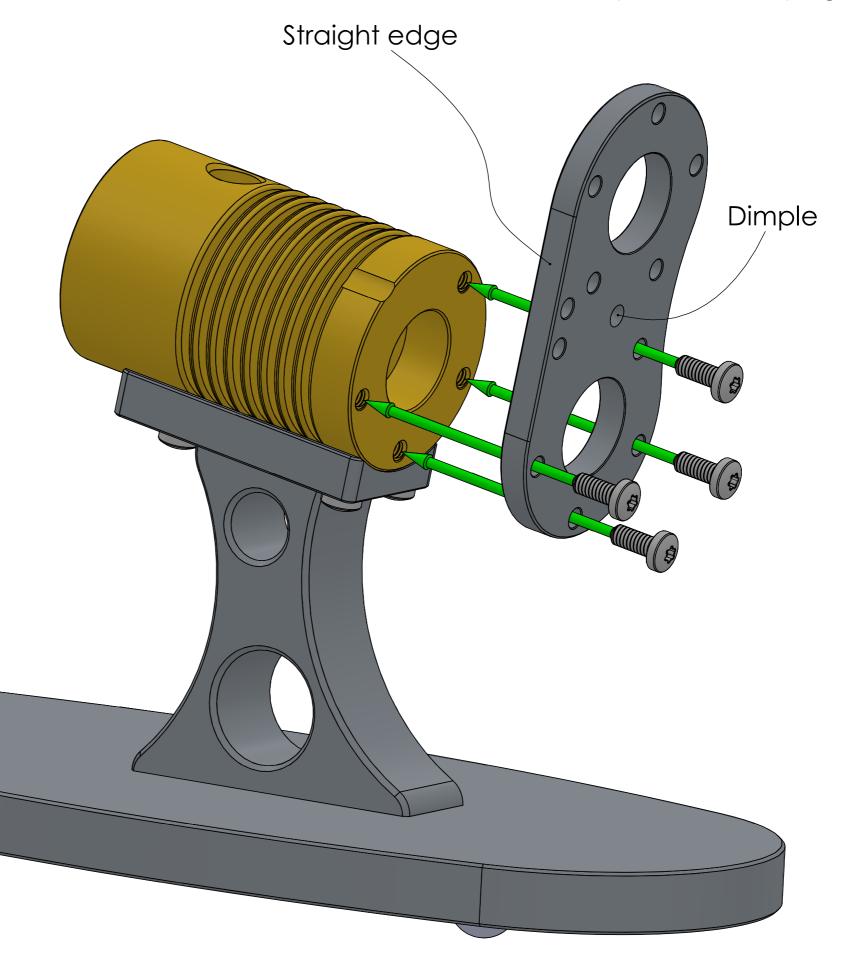


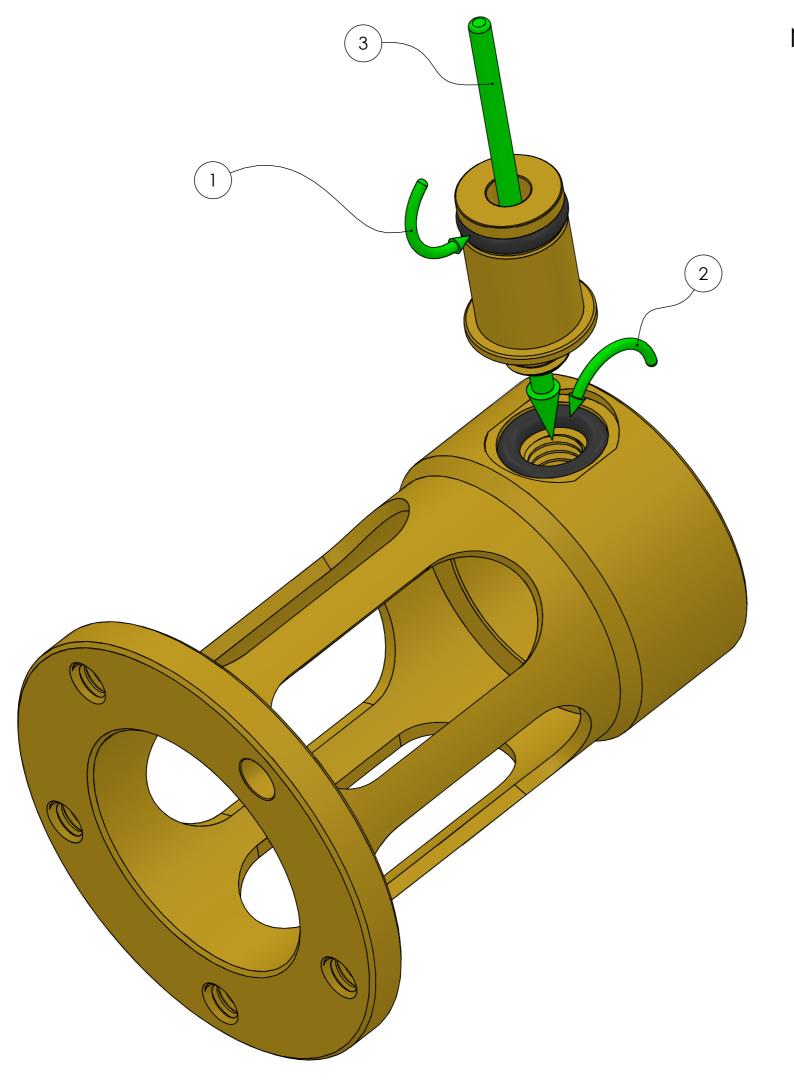




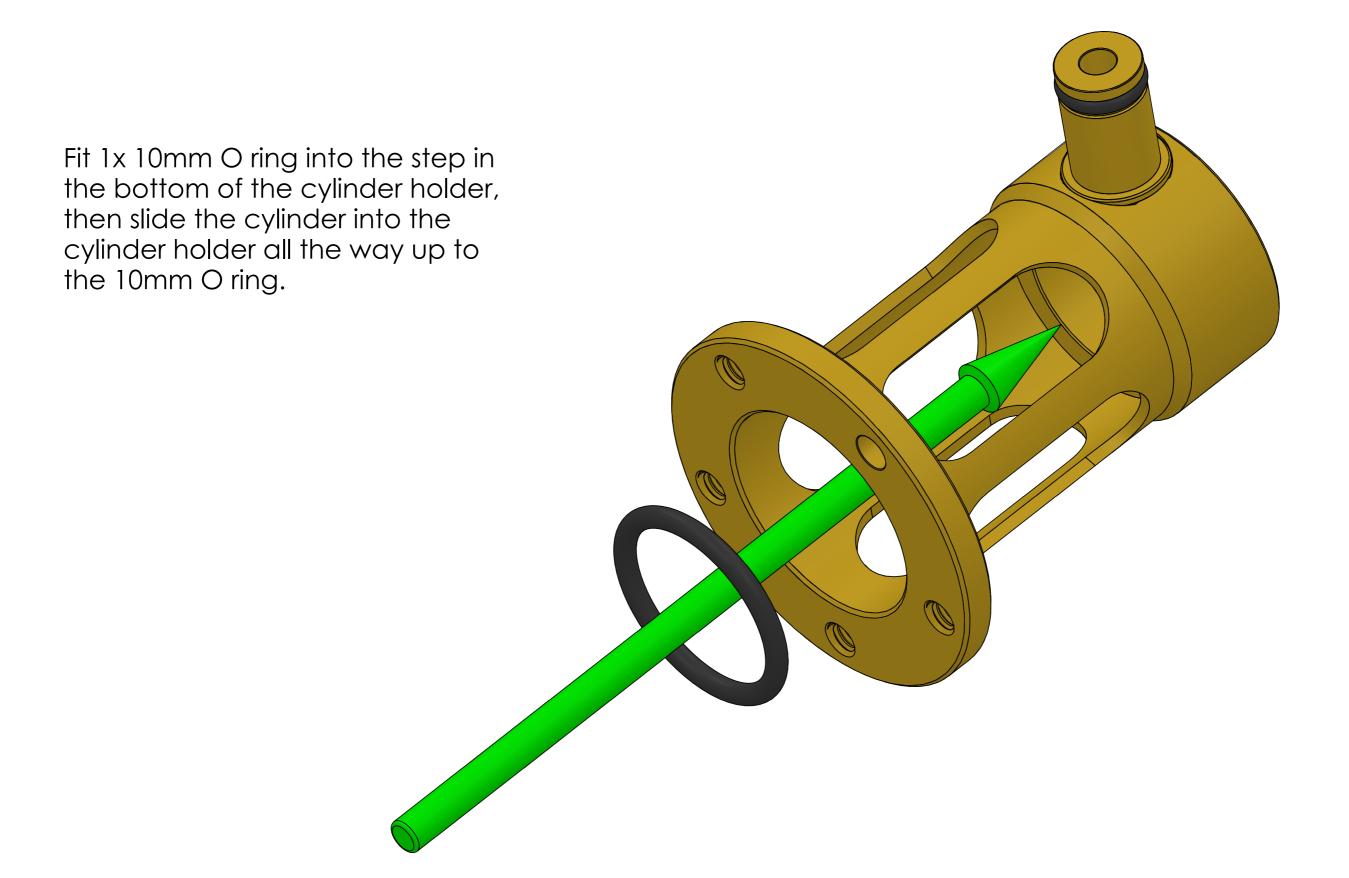
Screw 4x M2x5 screws through the front plate into the fin block and tighten.

Make sure the dimple faces outwards and that the straight edge is aligned as shown.





- 1. fit 1x 3mm O ring into the groove in the end of the cylinder port.
- 2. Fit 1x 3mm O ring into the recess on the side of the cylinder holder.
- 3. Screw the cylinder port into the cylinder holder and tighten no more than finger tight, take care not to pinch or dislodge the 3mm O ring.

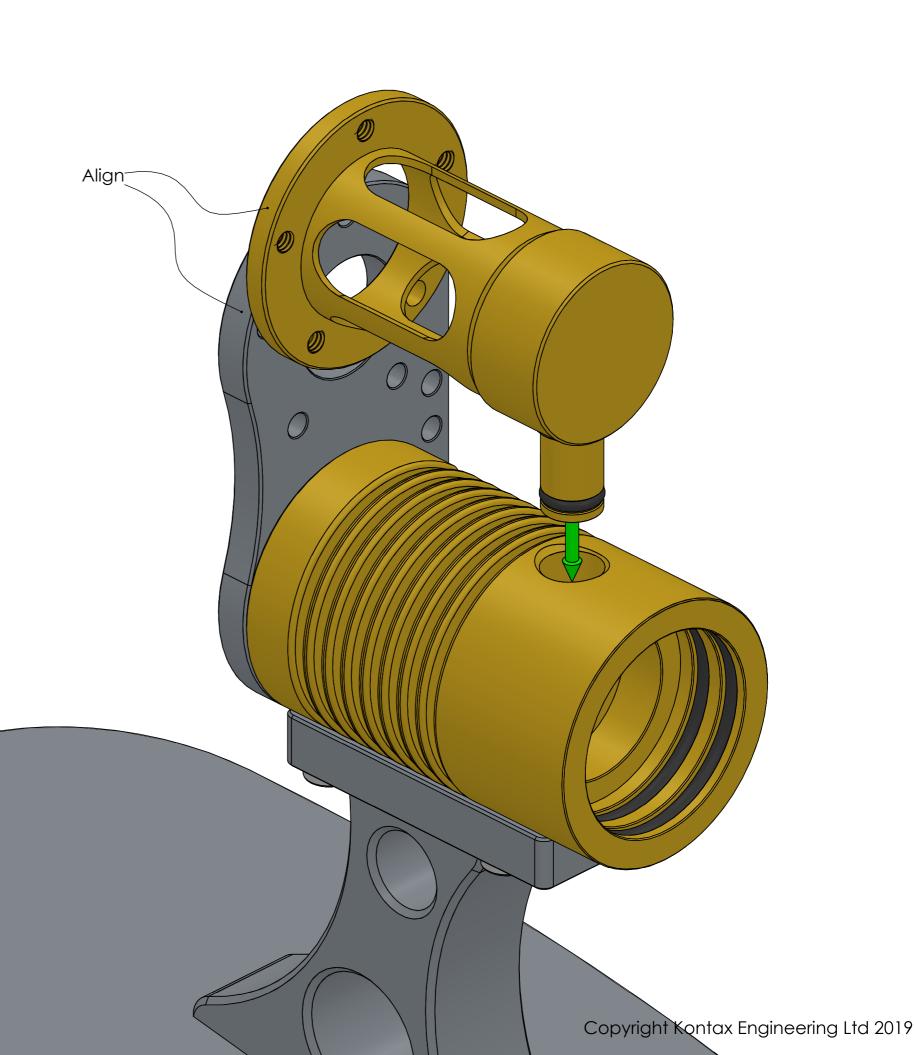


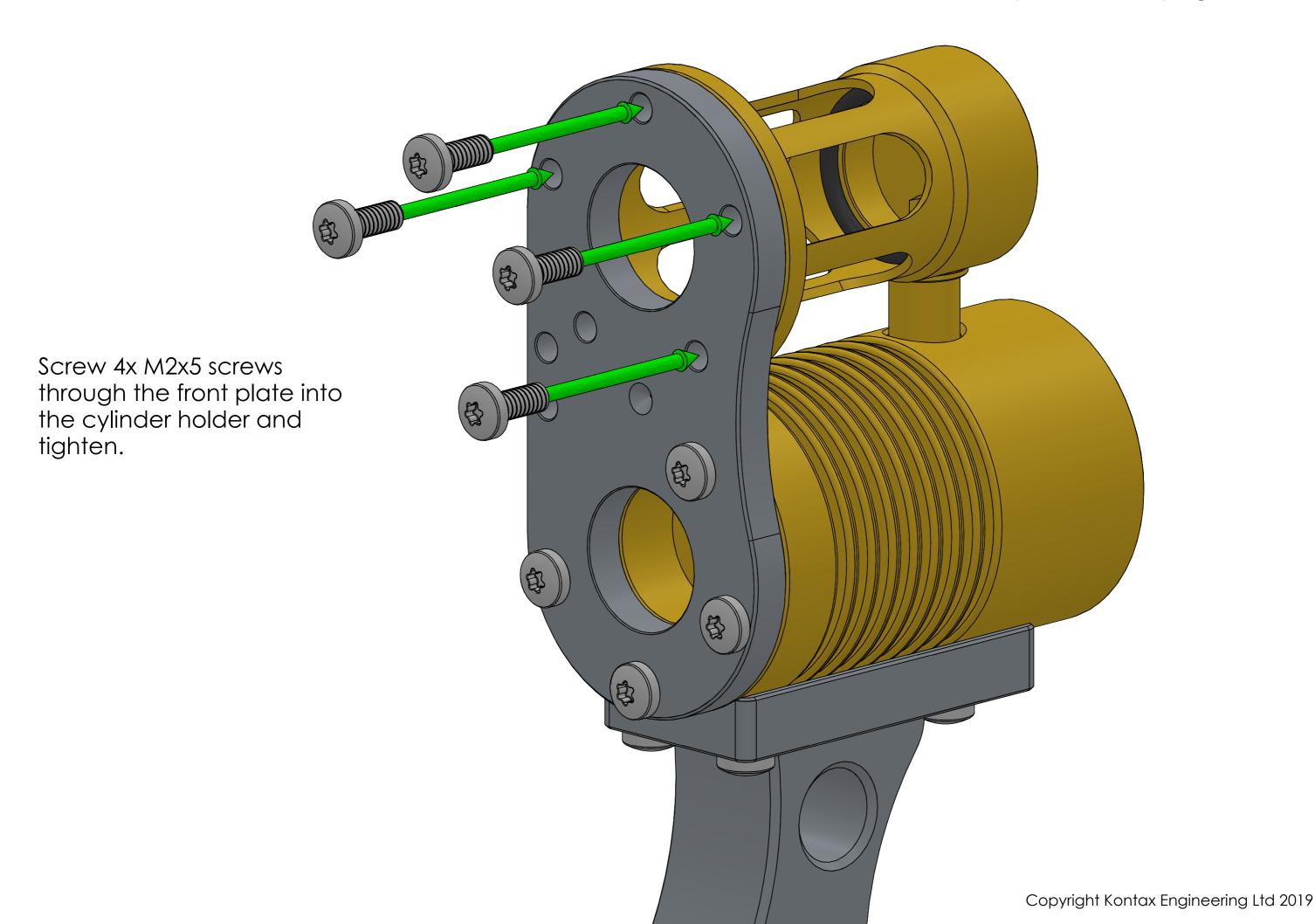
Position the flat surface of the cylinder holder against the front plate as shown and gently slide the port into the hole in the top of the fin block.

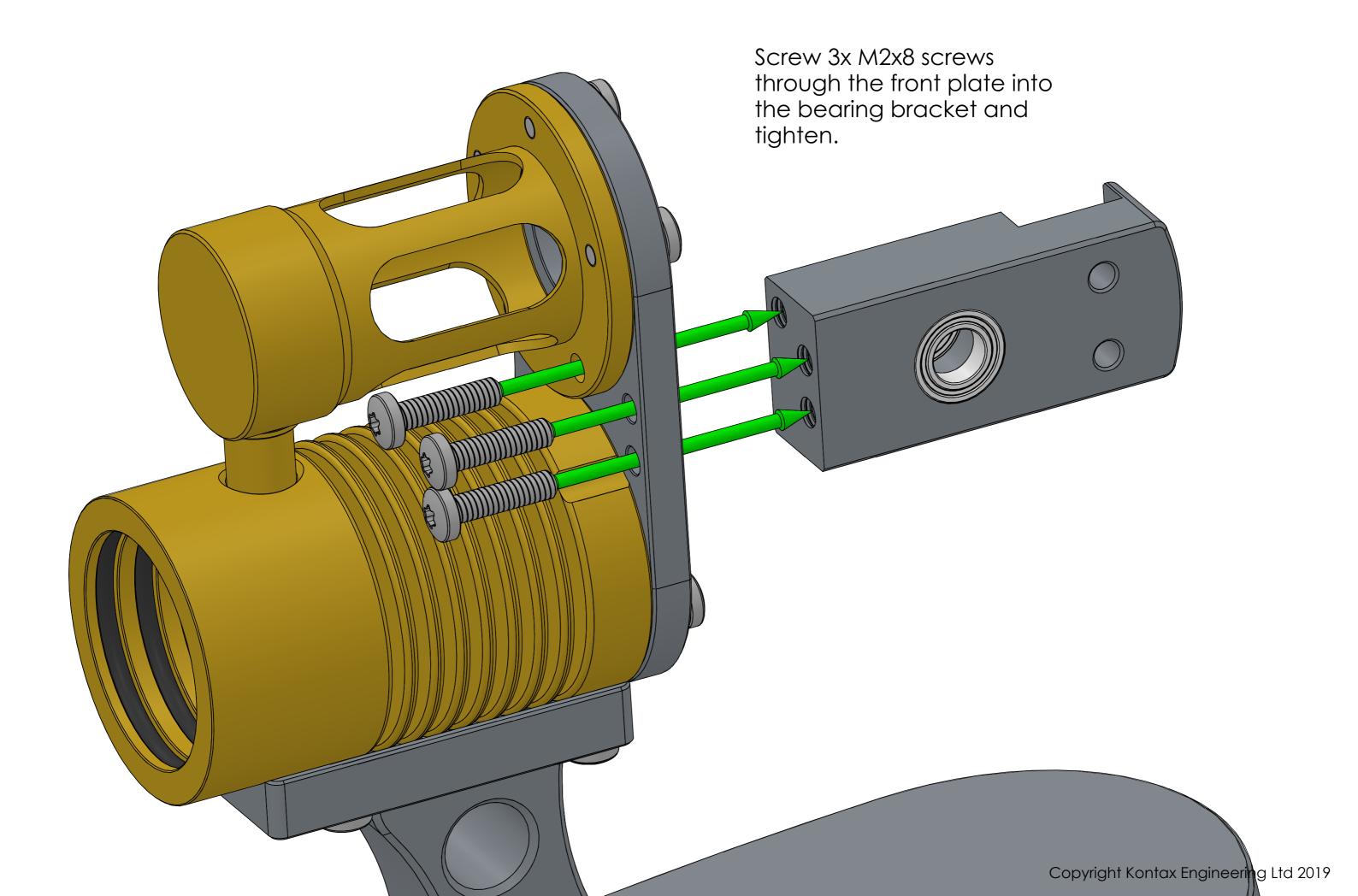
Take care that the O ring on the port does not become pinched as you slide it in.

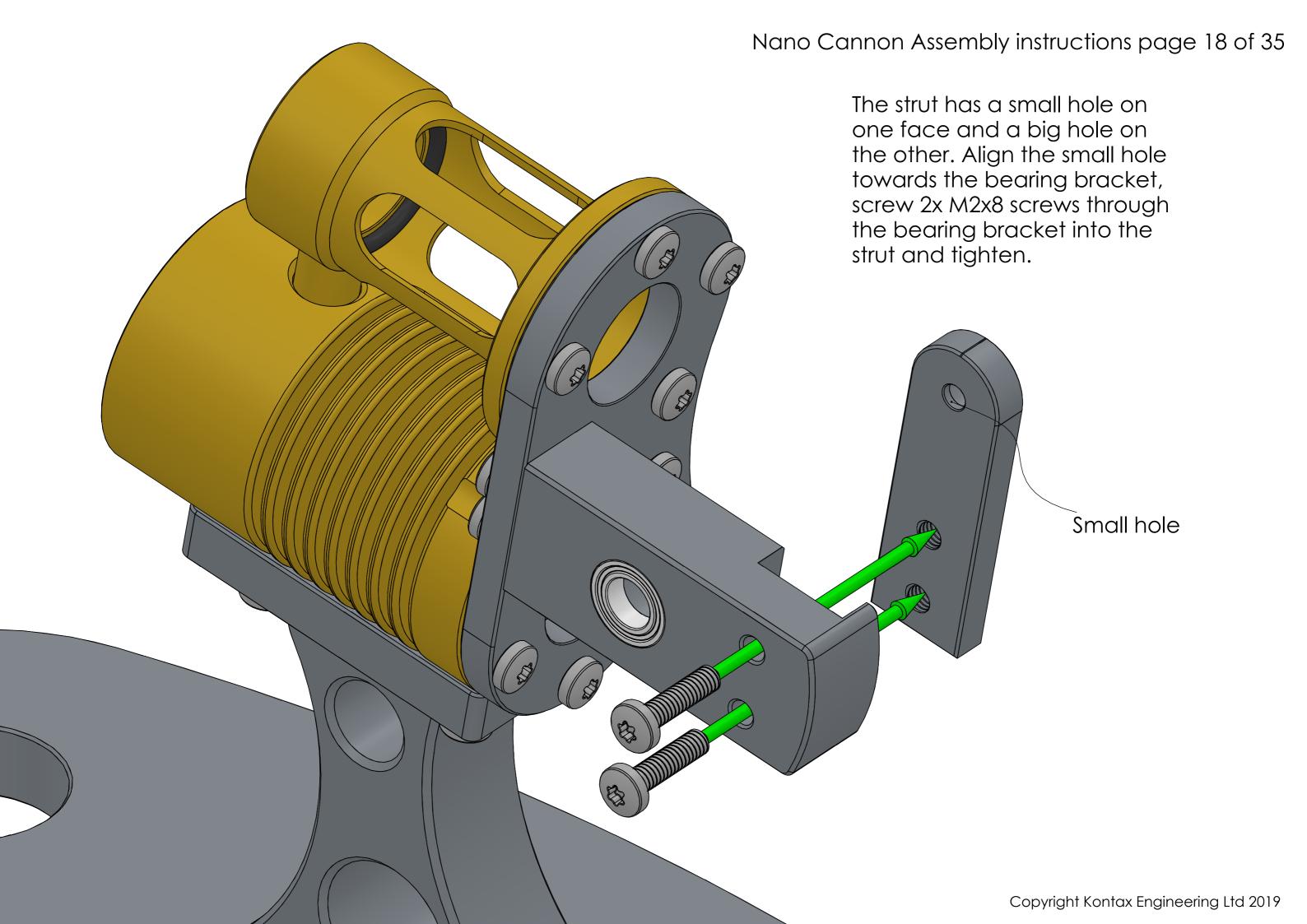
It may help to sparingly moisten the O ring with soapy water. Make sure to wipe off any excess afterwards or you risk staining the fin block.

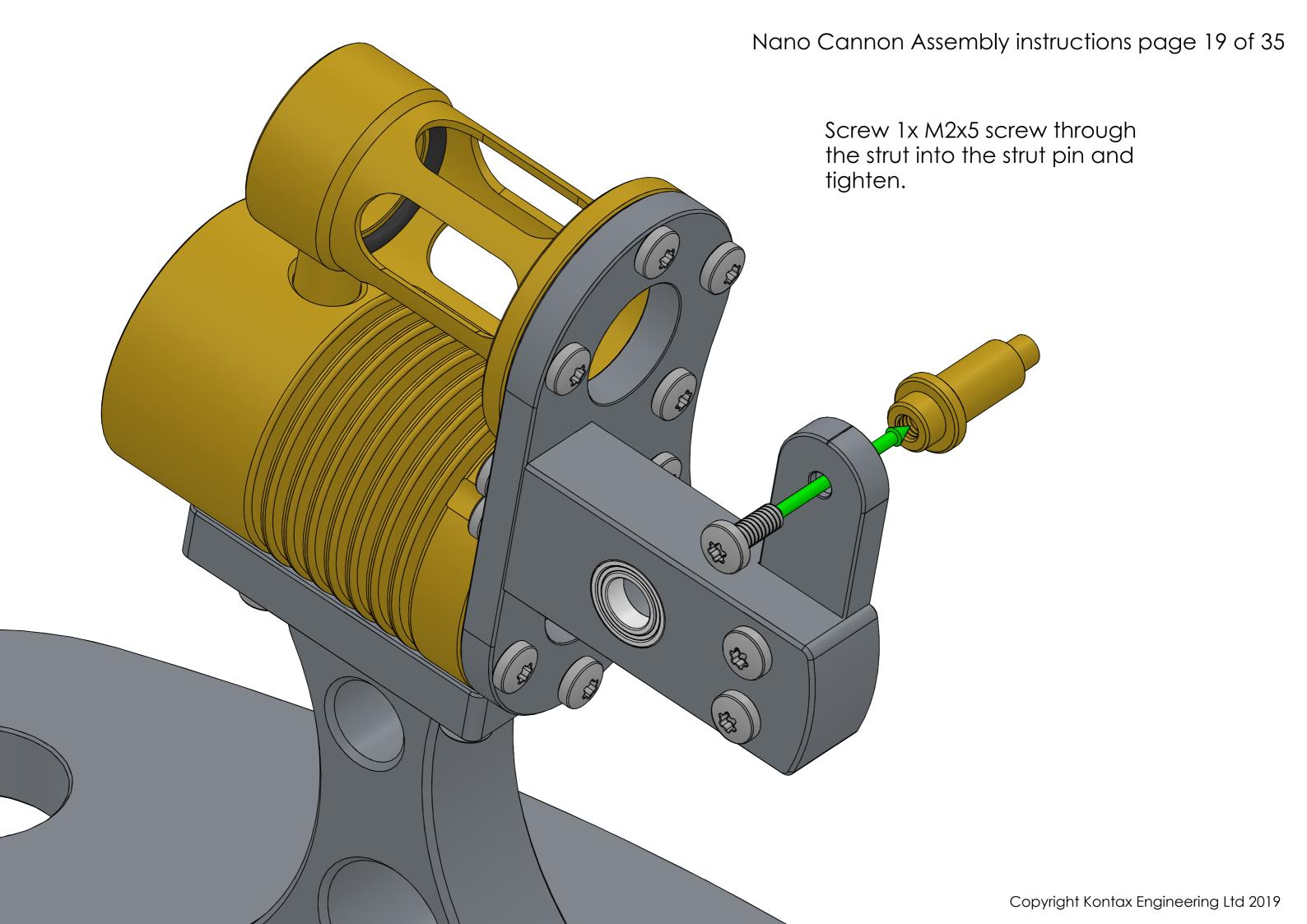
The outside edges of the cylinder holder and front plate should align after this step.



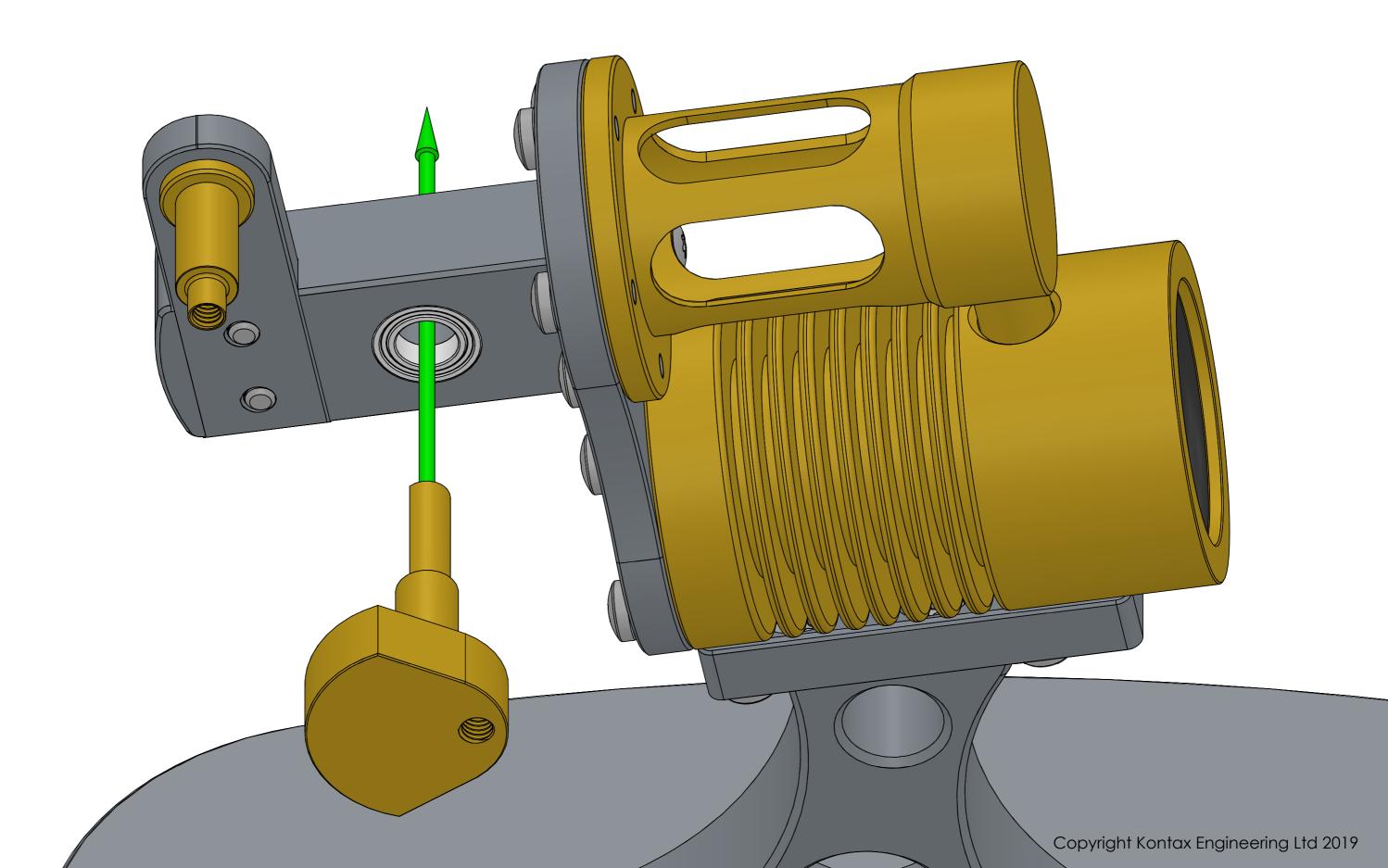


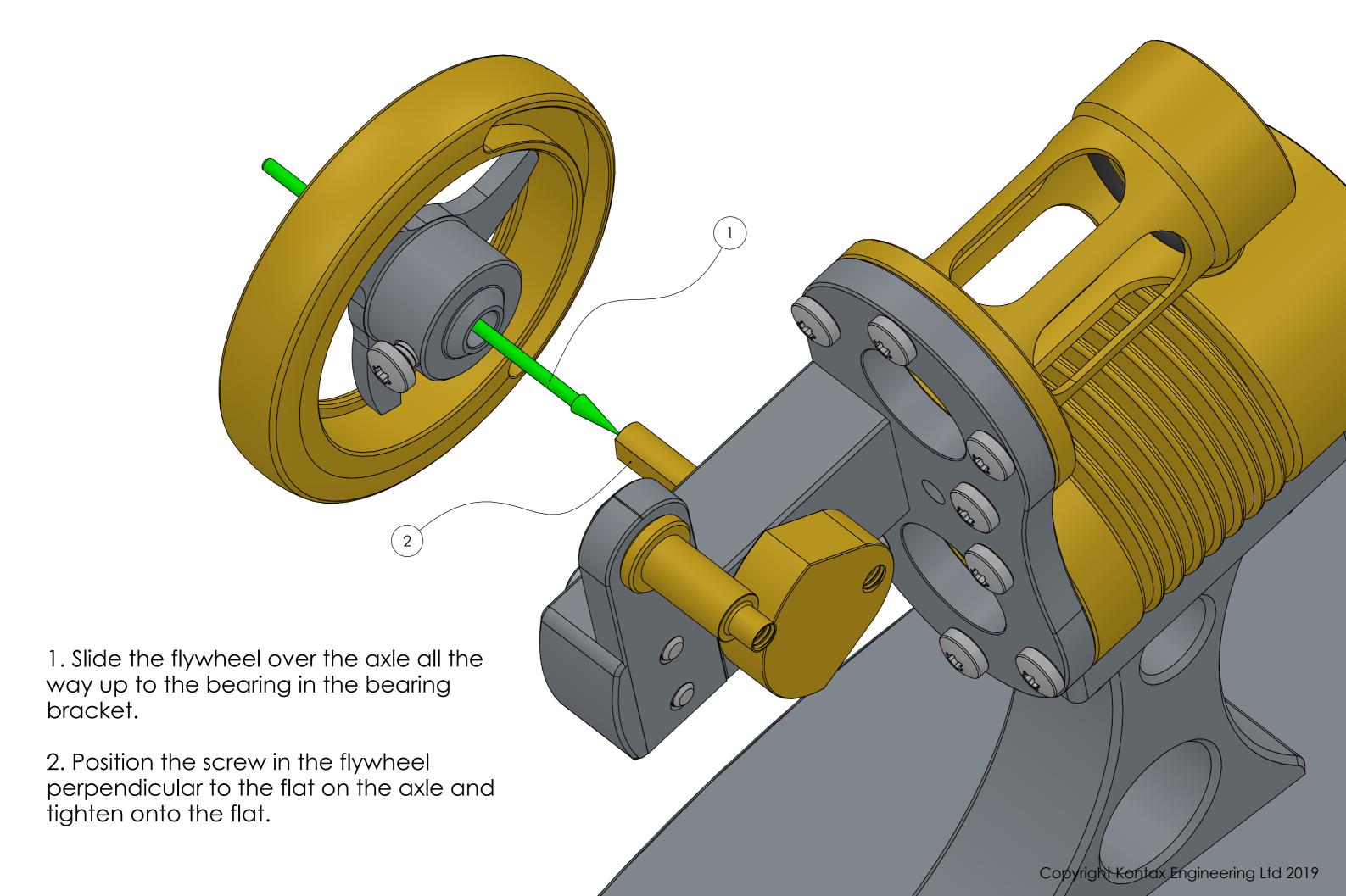


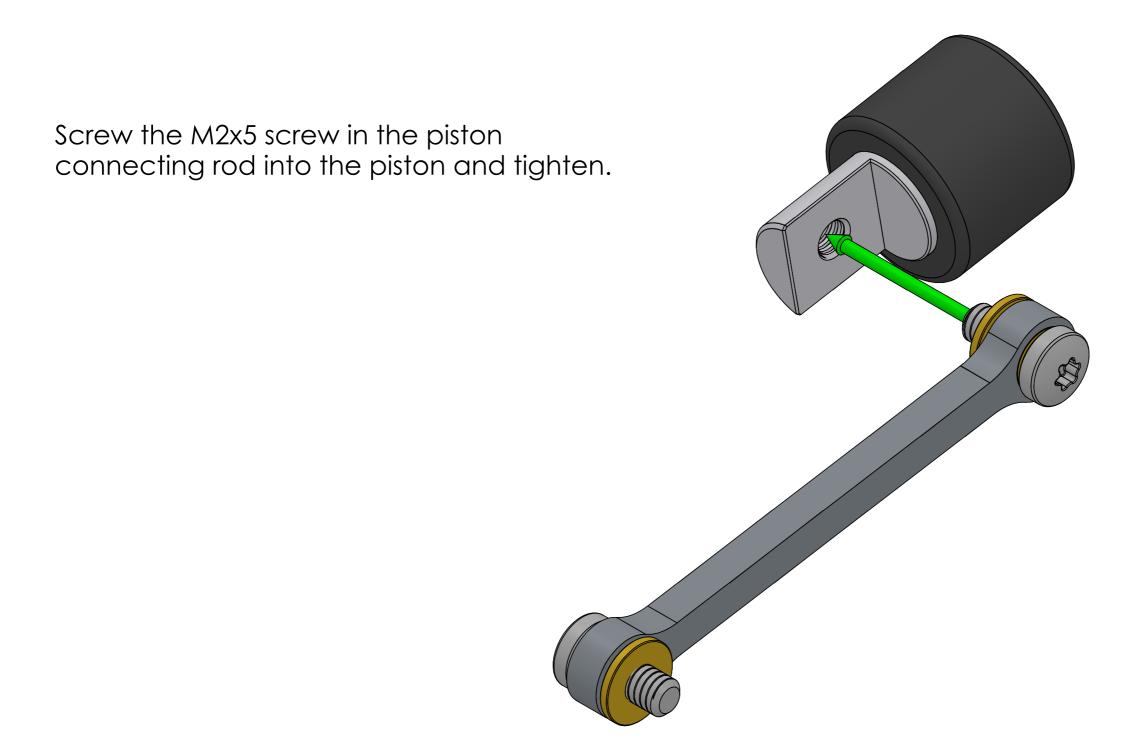


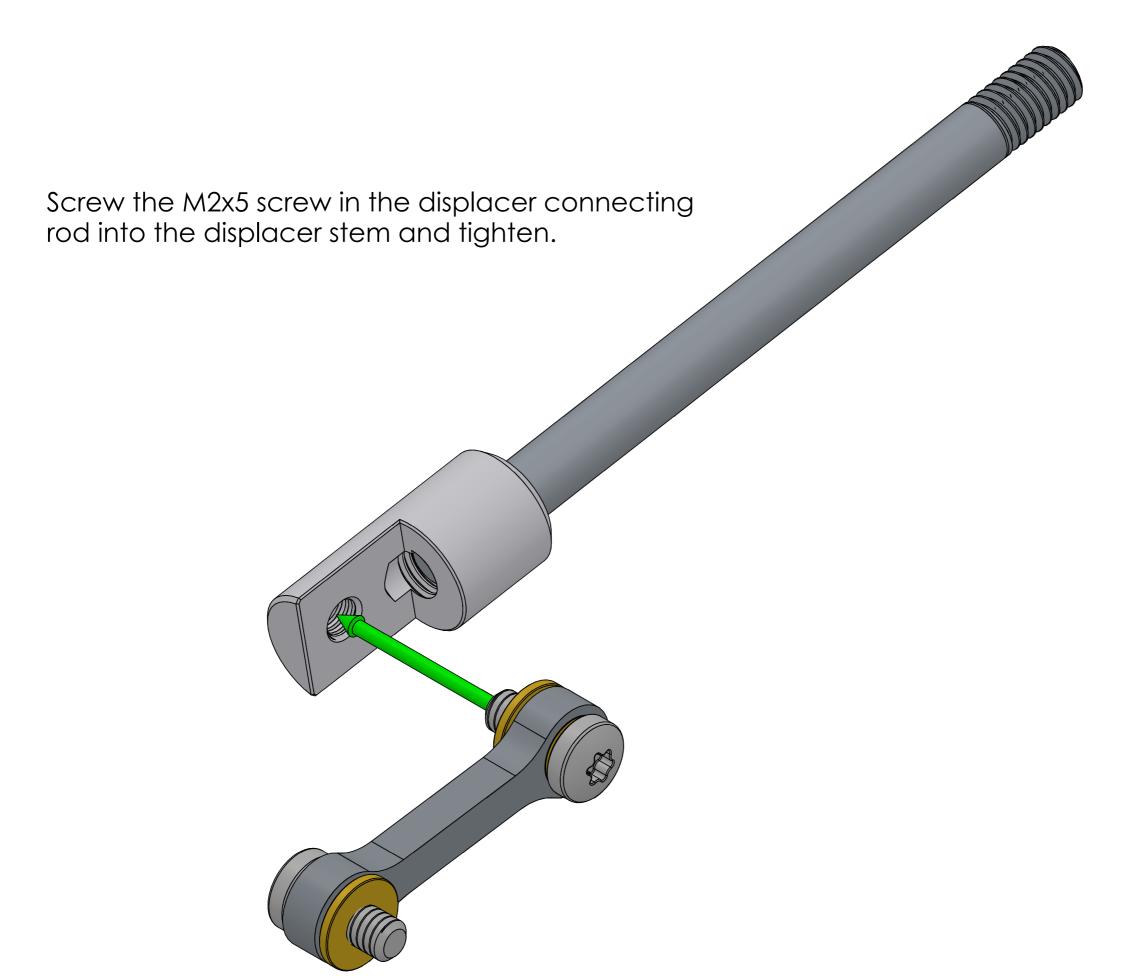


Slide the axle all the way through the bearings in the bearing bracket.

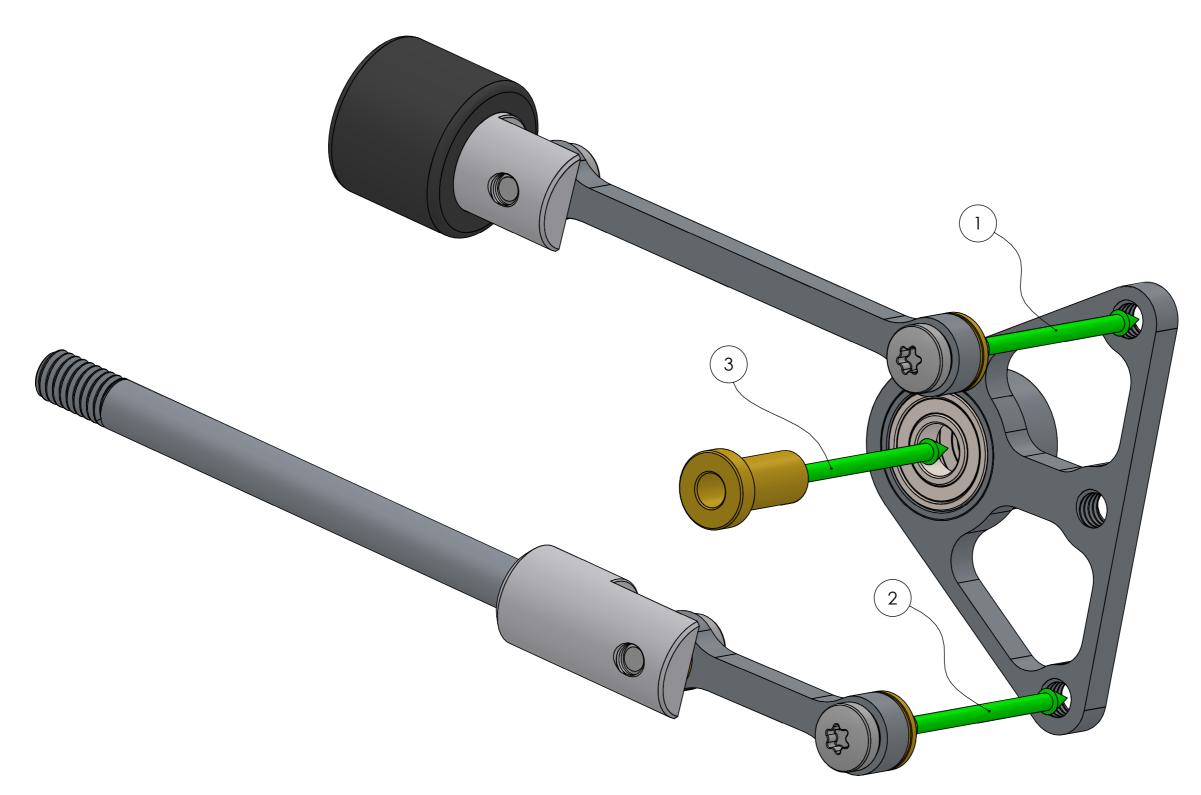


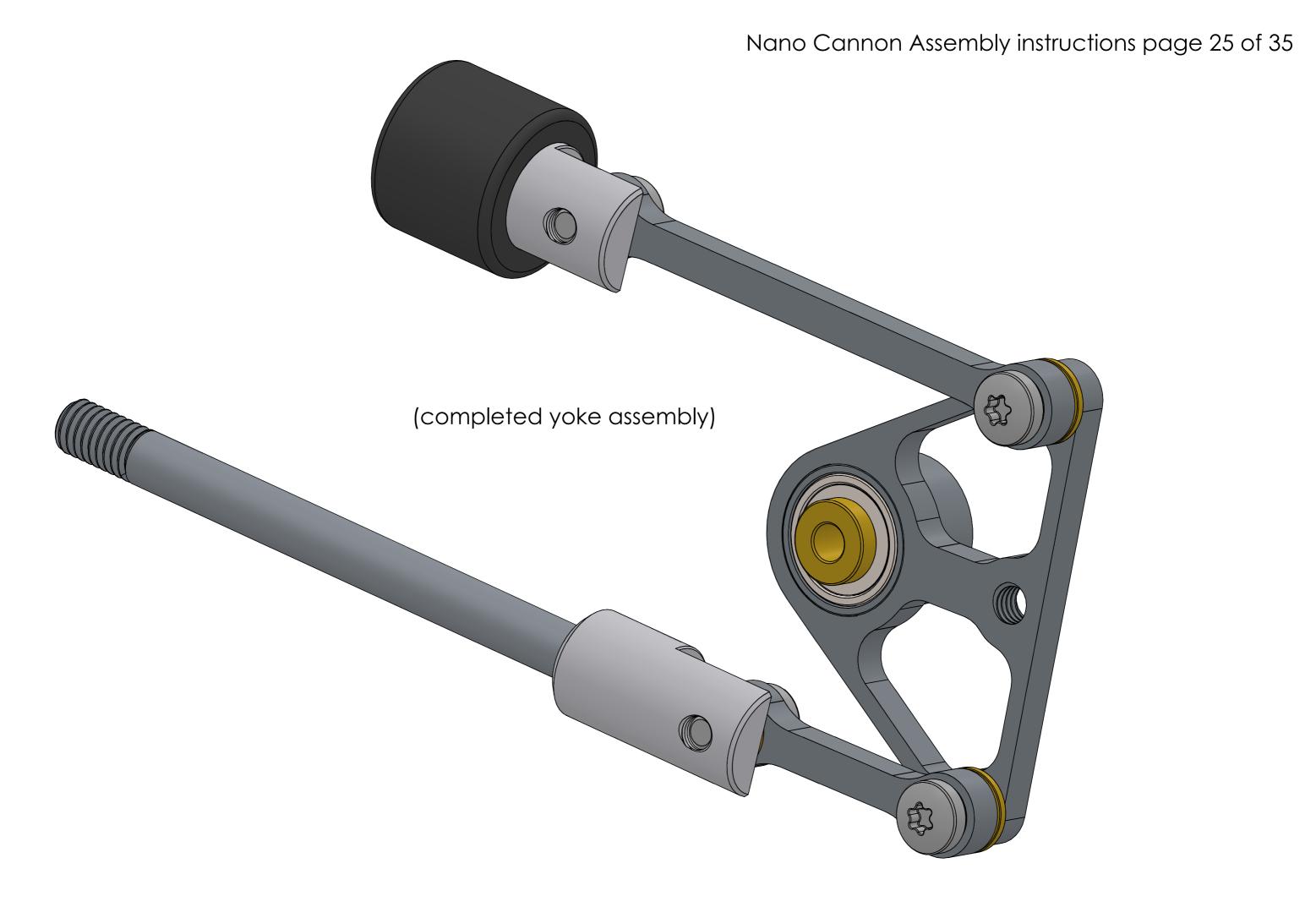




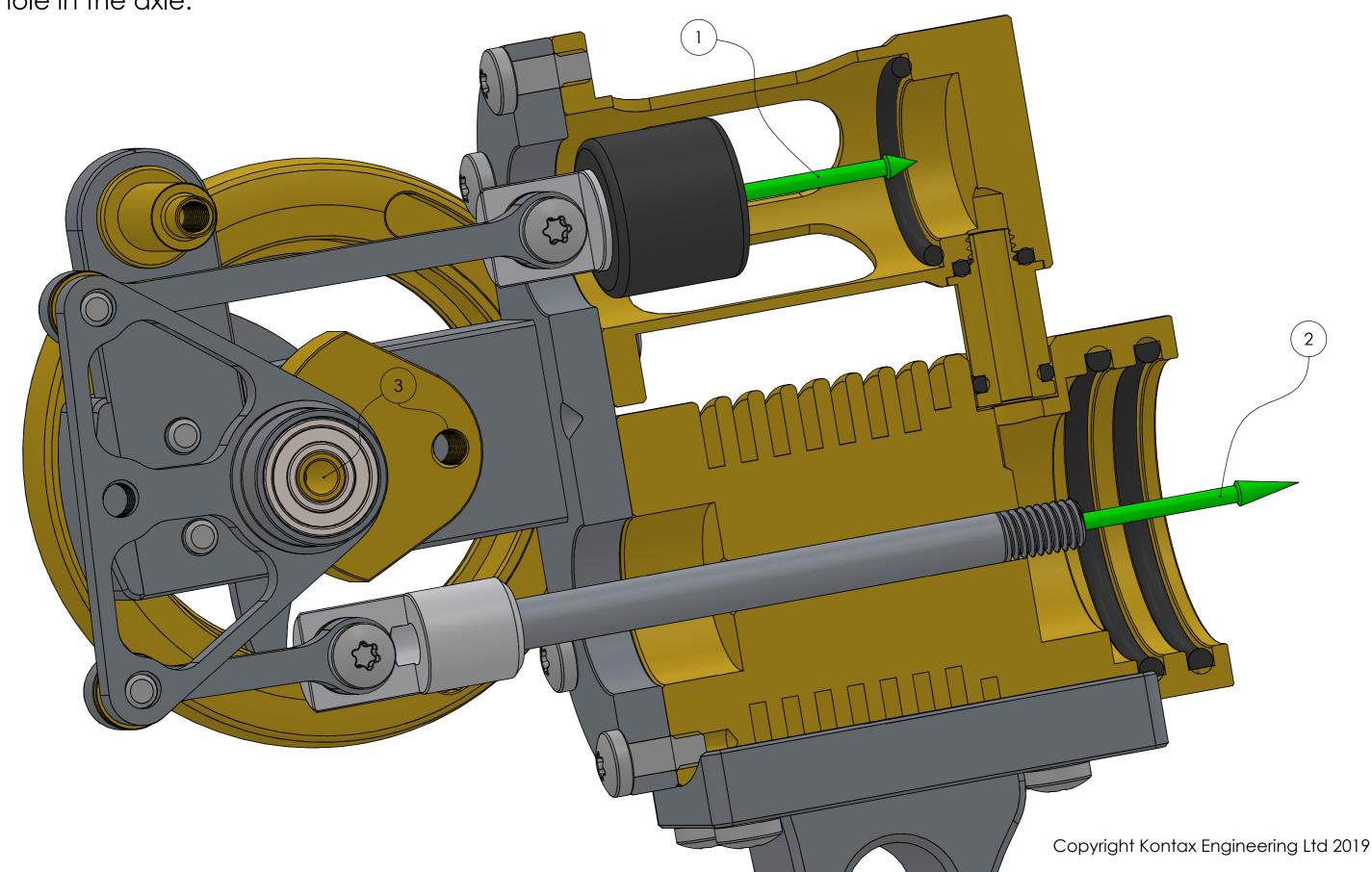


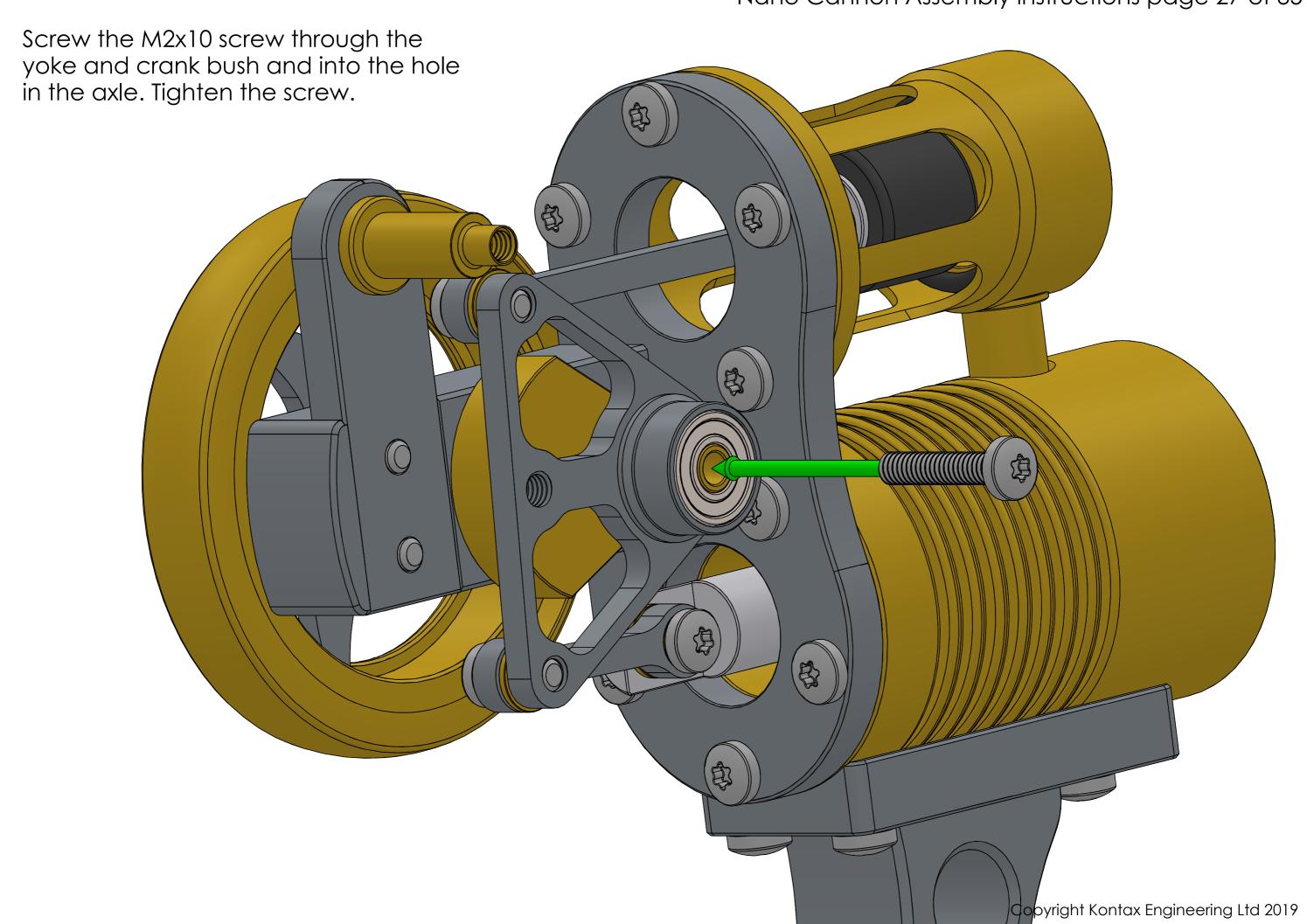
- 1. Screw the M2x5 screw in the end of the piston connecting rod into the yoke and tighten.
- 2. Screw the M2x5 screw in the end of the displacer connecting rod into the yoke and tighten.
- 3. Slide the crank bush into the bearings in the yoke (the completed yoke assembly is shown on the next page).

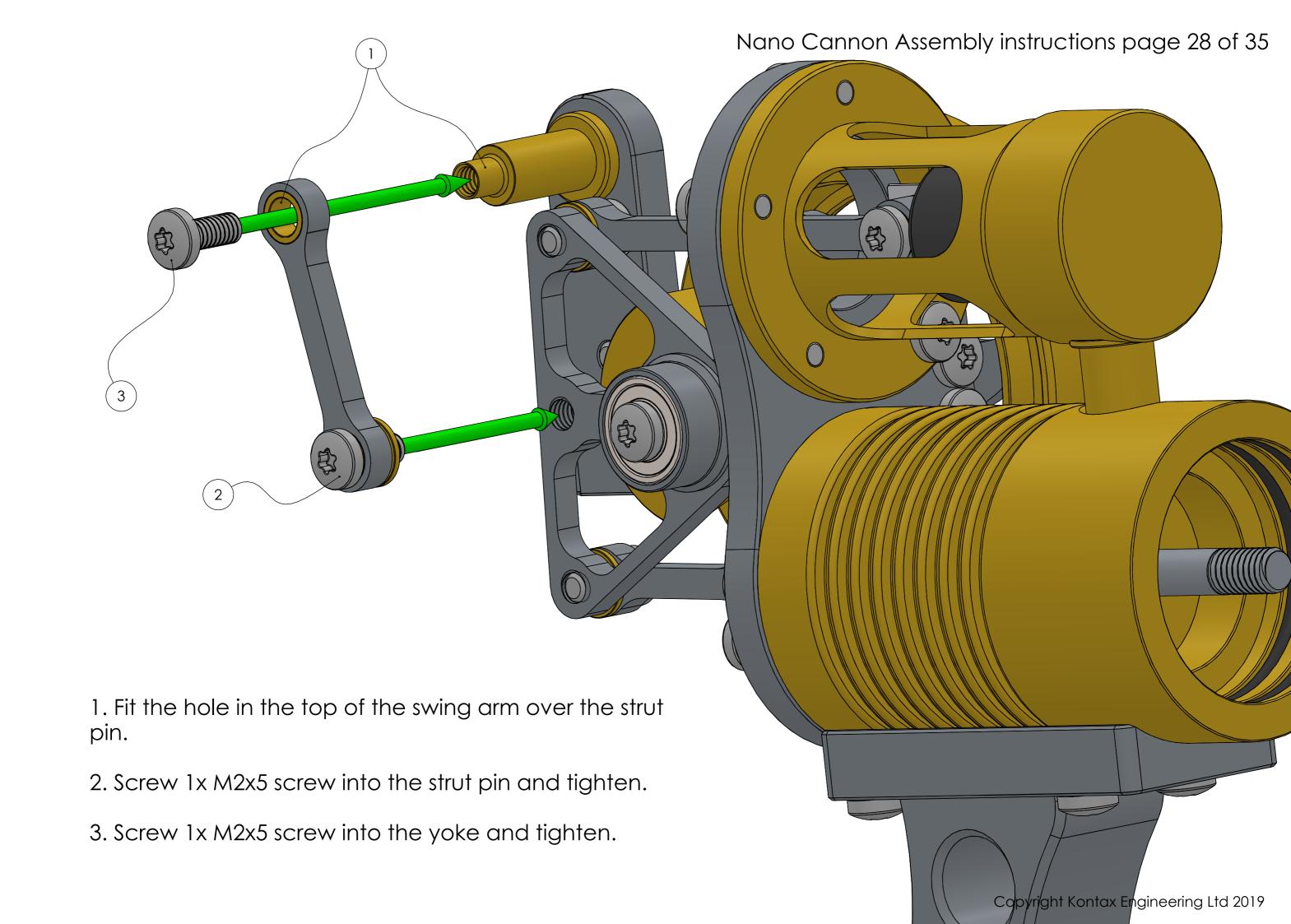


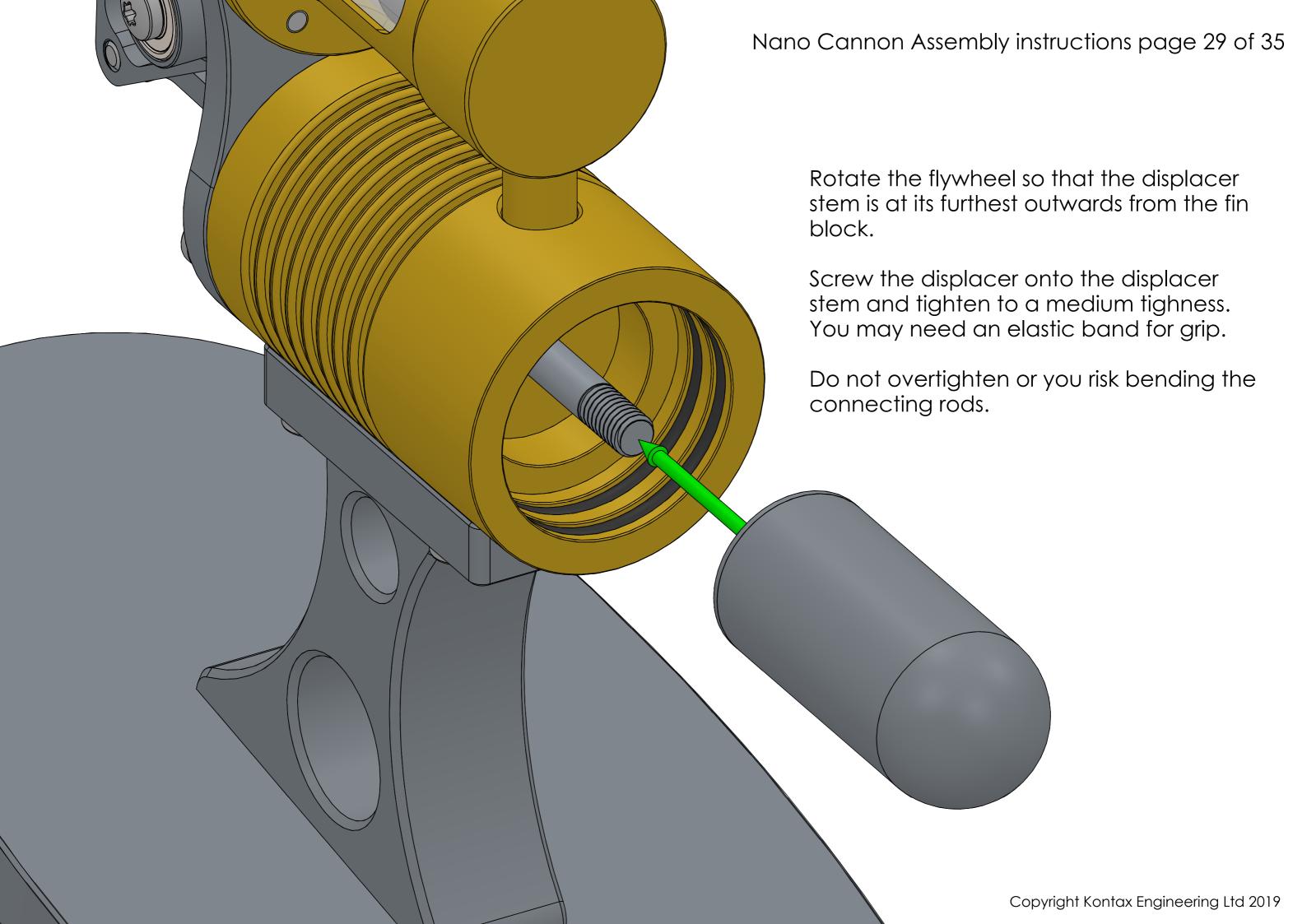


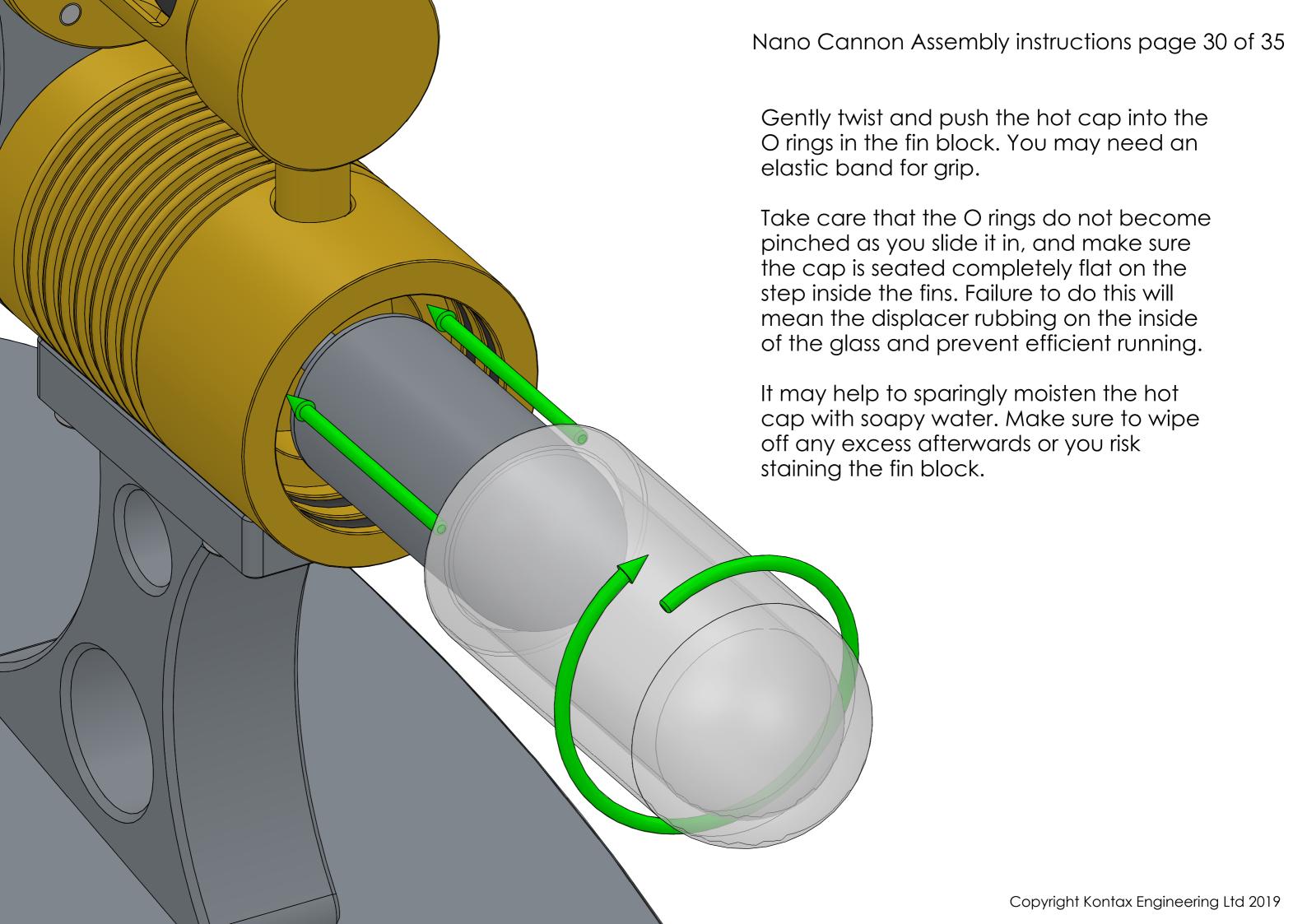
- 1. Slide the piston into the cylinder.
- 2. At the same time, slide displacer stem into the fin block.
- 3. Slide both in until the hole in the crank bush aligns with the hole in the axle.

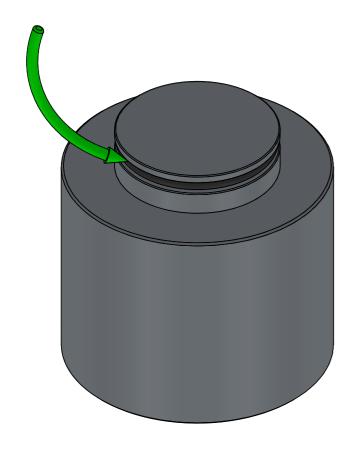




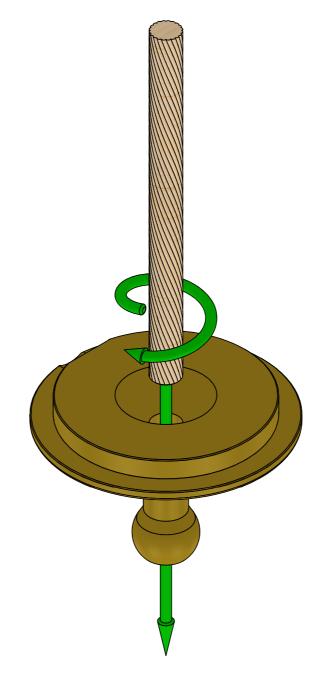








1. Fit the 13mm O ring into the groove in the end of the burner body.

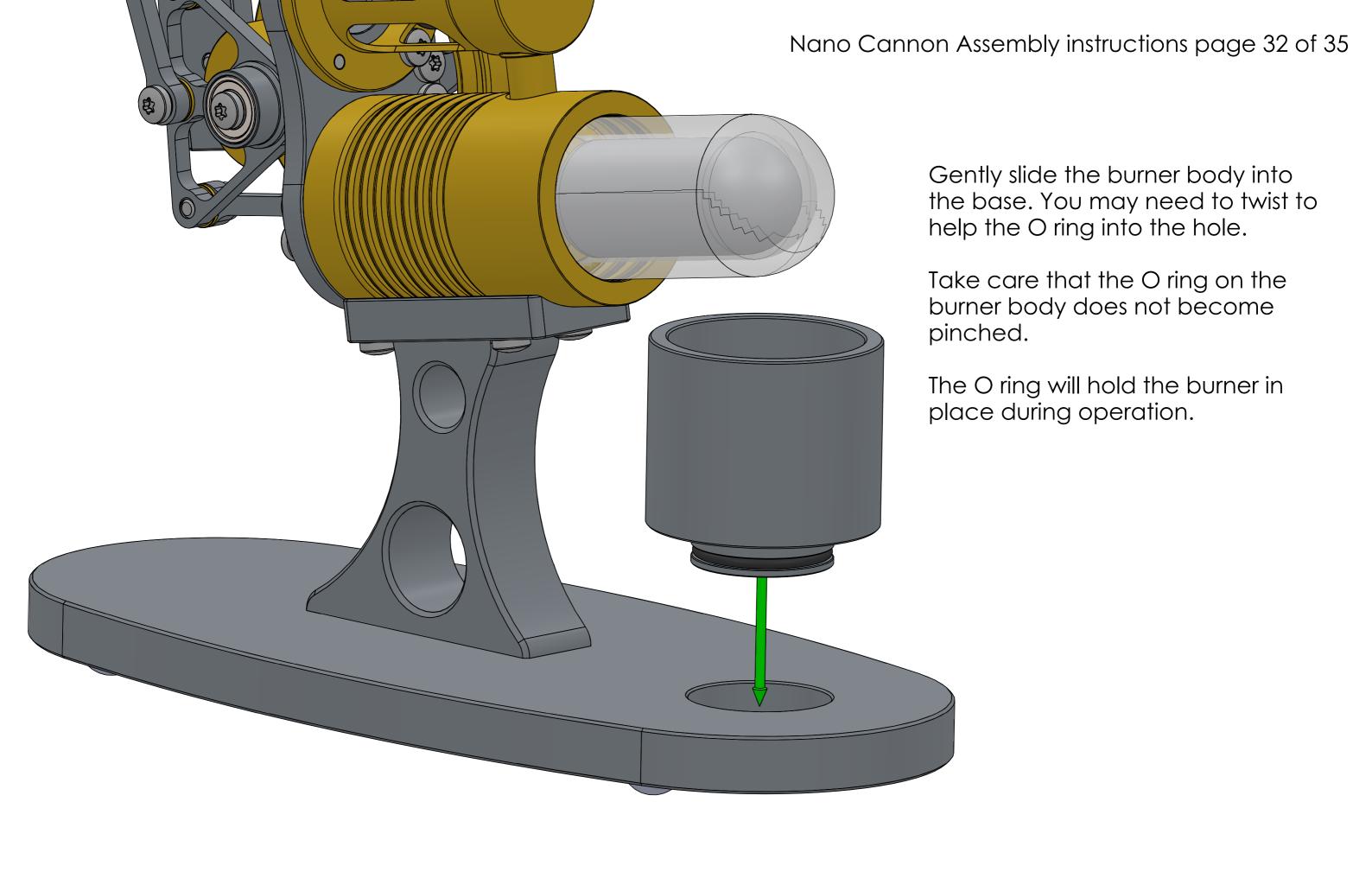


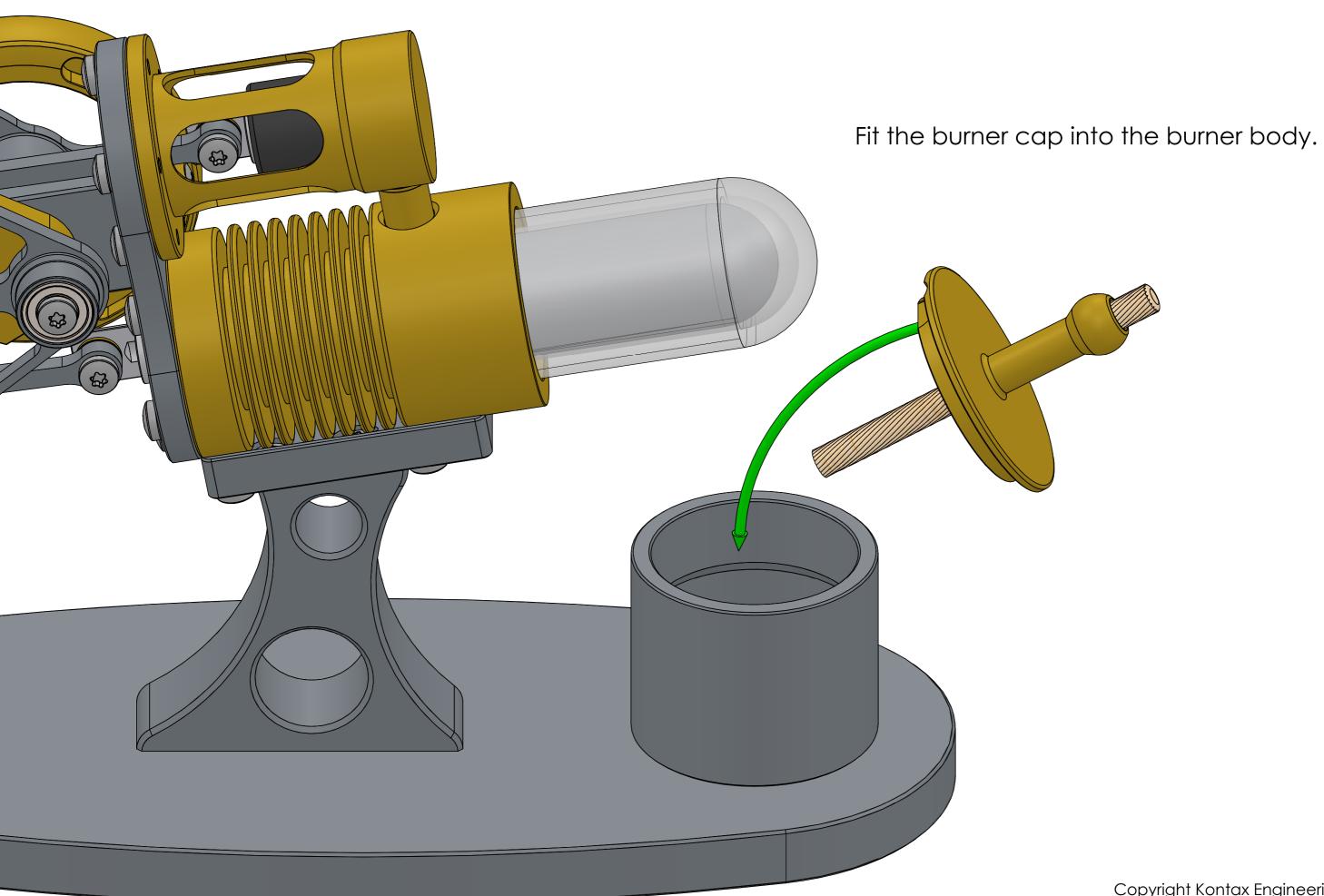
2. If the top end of the wick is frayed you will need to burn off the loose fibres, allow to cool, and then roll the end into a blunt point.

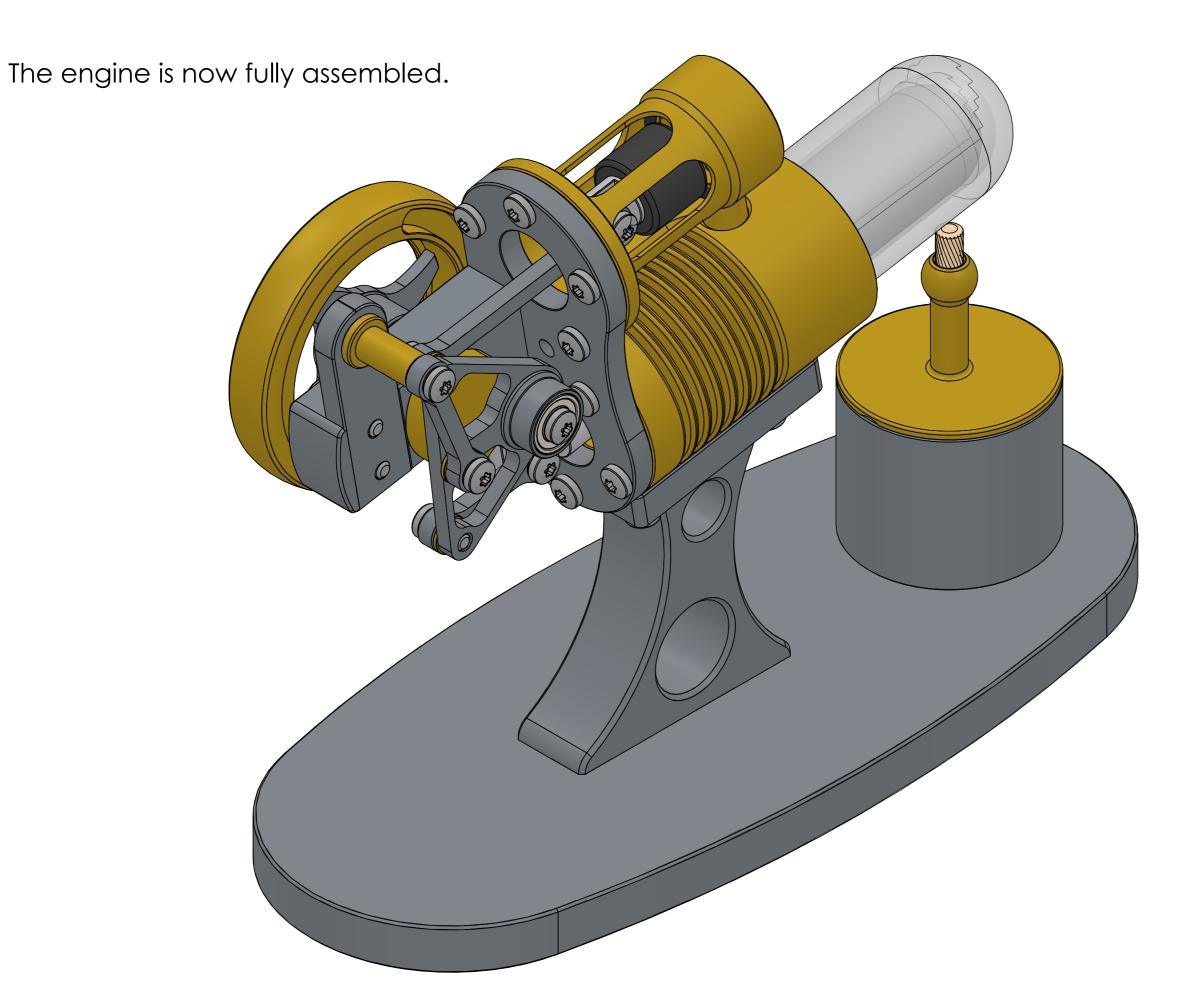
ONLY EVER PERFORM THIS STEP ON DRY WICK, NEVER ON WICK THAT HAS BEEN SOAKED IN FUEL.

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

There must be 5mm of wick protruding from the top of the burner cap for efficient running.







The engine uses Methylated Spirits or Denatured Alcohol as fuel.

Remove the burner cap from the burner body and trim the wick to 5mm protruding from the top and 15mm-30mm from the bottom.

Fill the burner body with fuel to the fill level AND NO MORE.

Fit the burner cap back in the burner body and wait a minute for the wick to soak up the fuel.

Light the wick and allow a minute or so for the engine to warm up, then spin the flywheel in the direction shown. 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. 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.

