#### Kontax Flame Pod assembly and operation instructions

• Make sure you have a suitable fire extinguisher to hand during operation.

• Never leave a running engine or naked flame unattended.

• Take care the engine does not vibrate itself off your table.

All parts of the engine will be very hot during operation.

• The engine will take time to cool down after operation.

• The flame produced by a steel wick is almost invisible.

• Ensure burner is fully extinguished after use.

Make sure children are fully supervised.

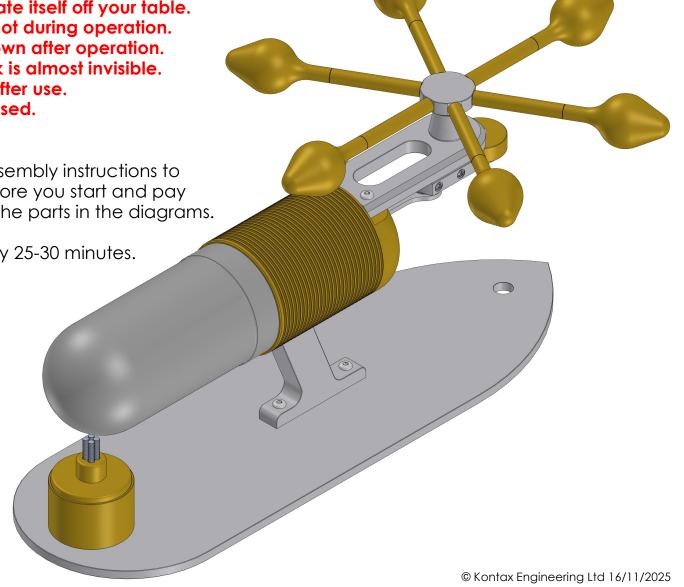
Please read all the way through the assembly instructions to familiarise yourself with the process before you start and pay close attention to the alignment of all the parts in the diagrams.

Assembly time should be approximately 25-30 minutes.

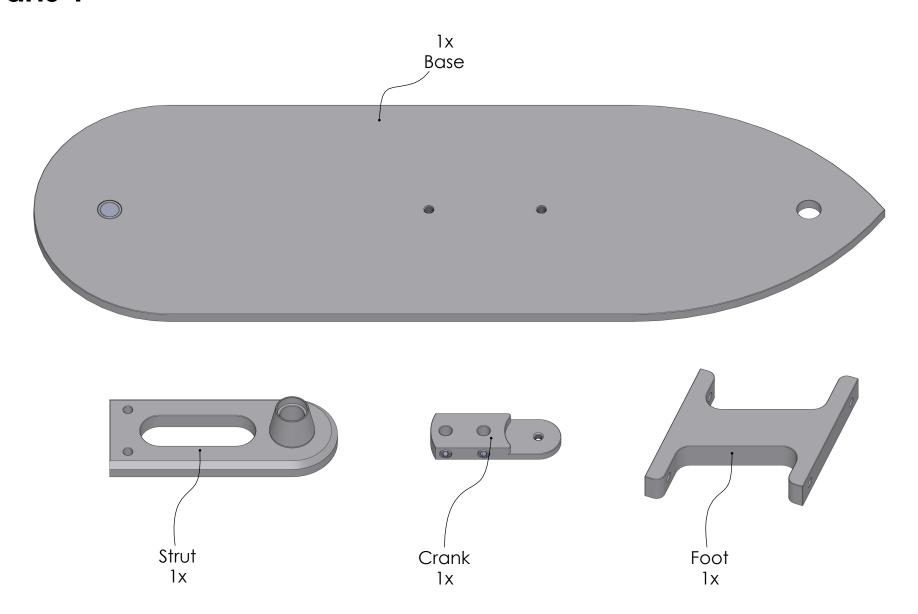
Please take great care when opening the bags of small parts! It is recommended to remove the packing tray from the box and open the bag over the box to catch dropped parts.

The engine parts list starts on the next page.

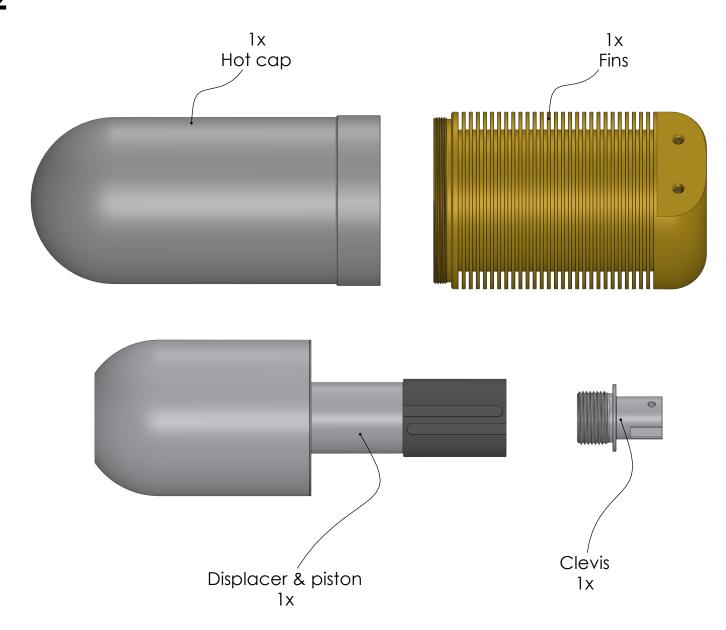
Maintenance and operation instructions can be found at the end of this document.



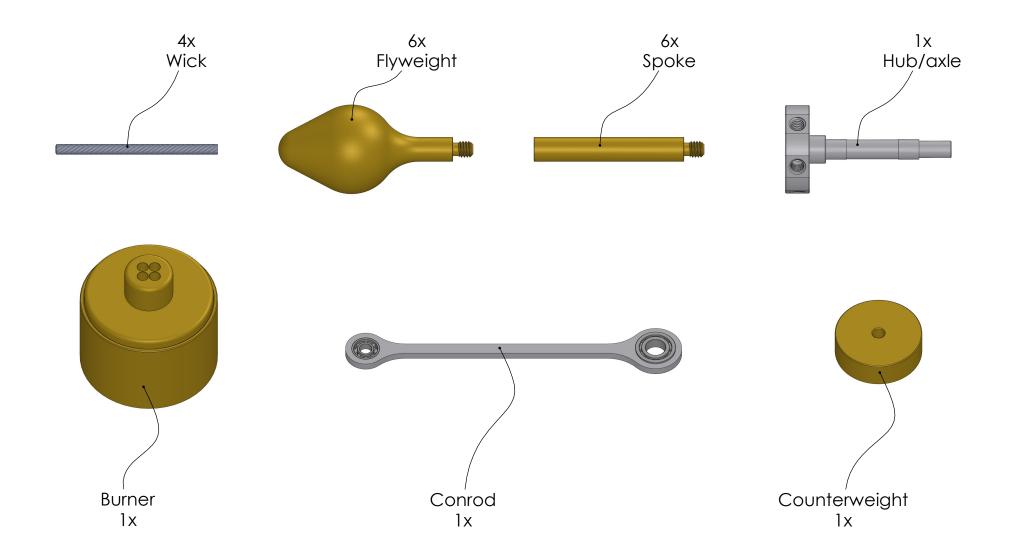
# Parts 1



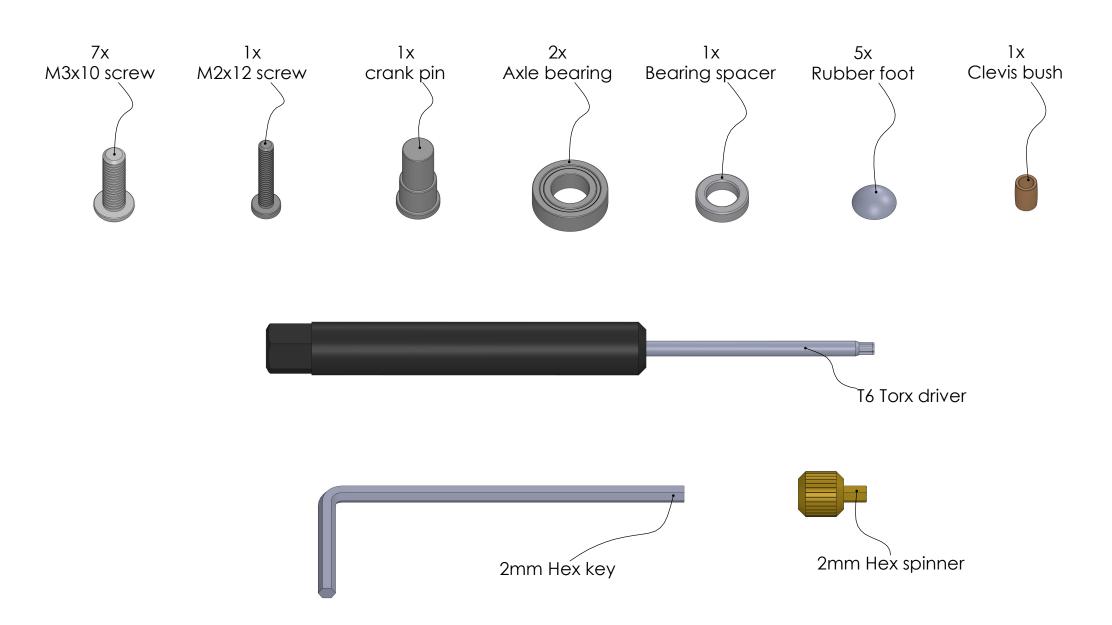
## Parts 2

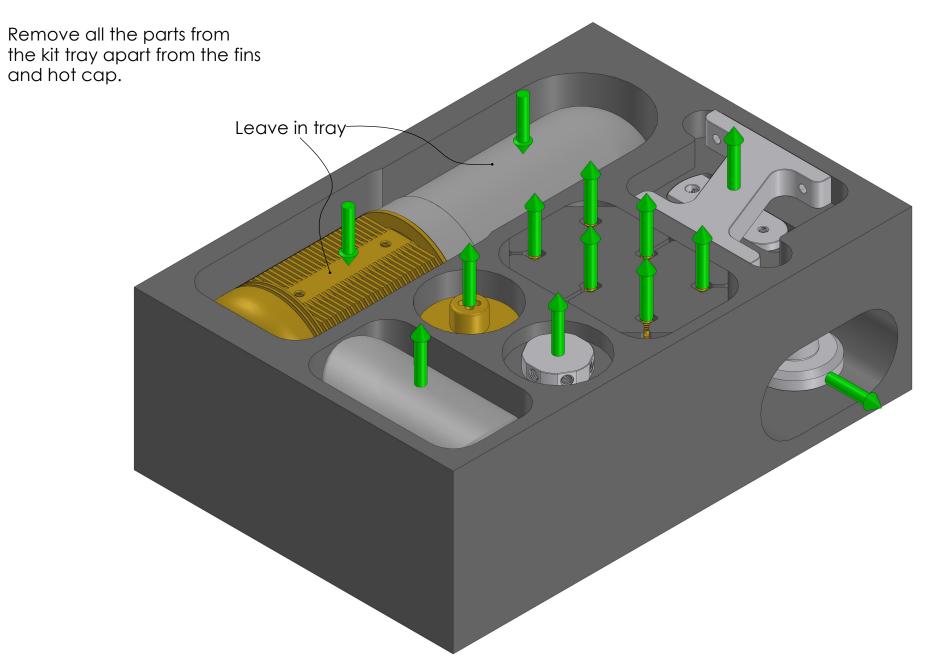


#### Parts 3



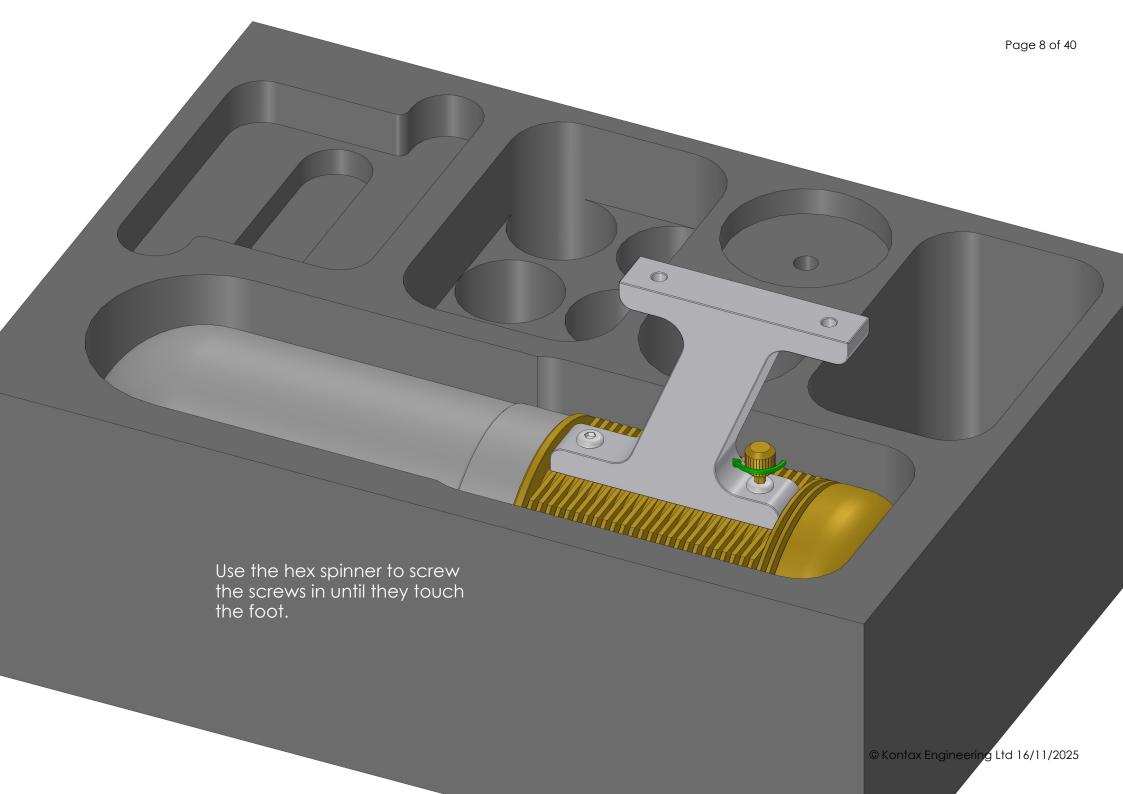
#### Parts 4 & tools

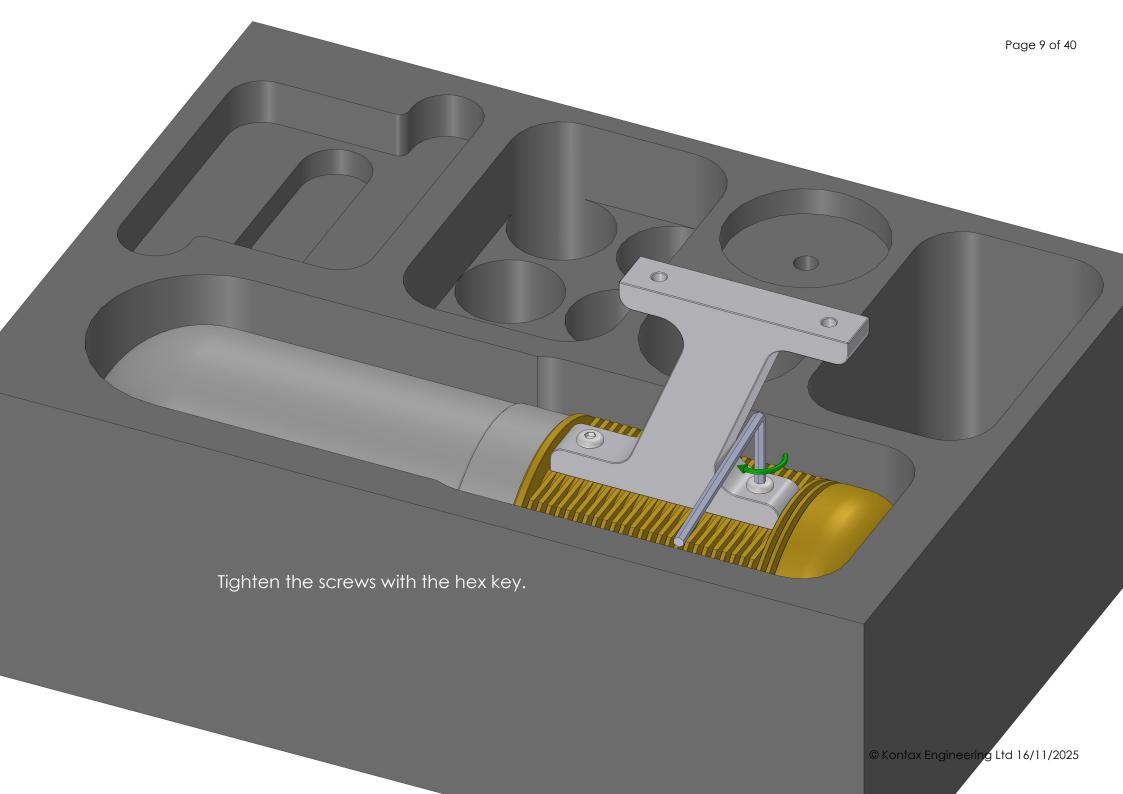


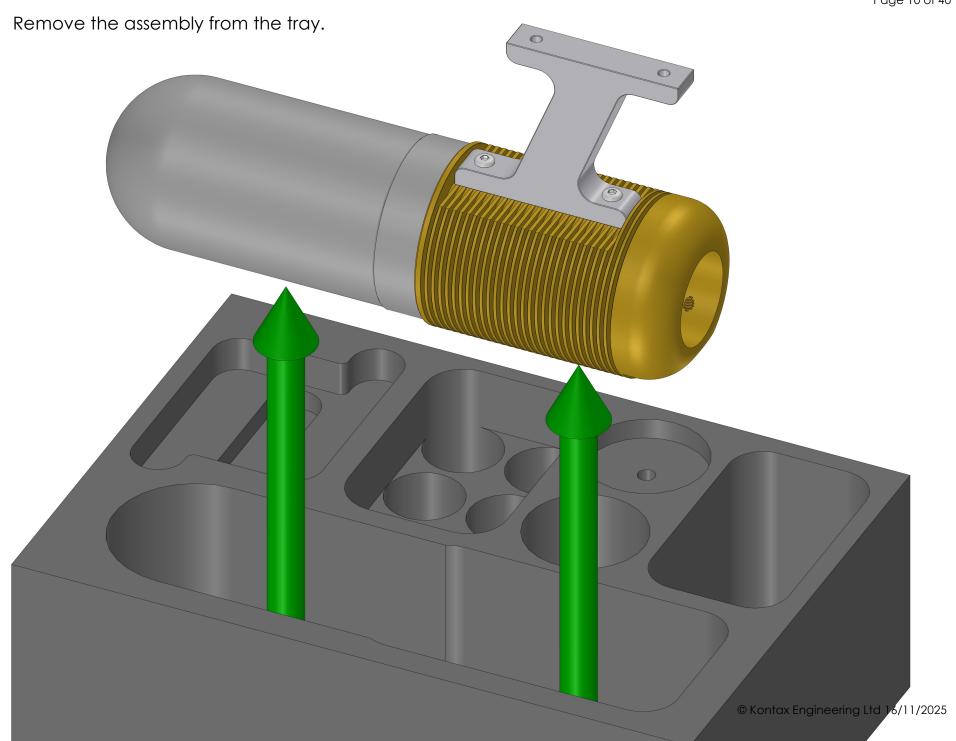


Fit the foot over the holes in the fins and drop two M3x10 screws through the holes in the foot so that they rest in the holes in the fins.

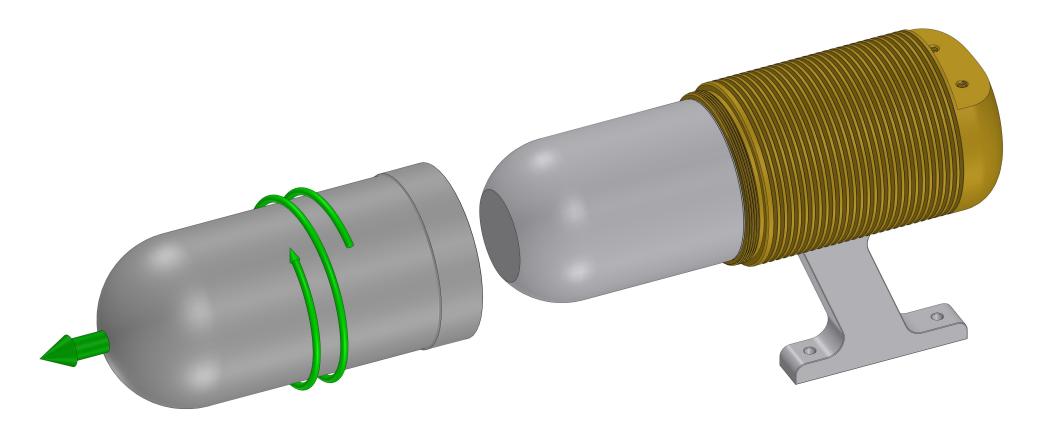
Note: the tray will hold the assembly still while the feet are attached.



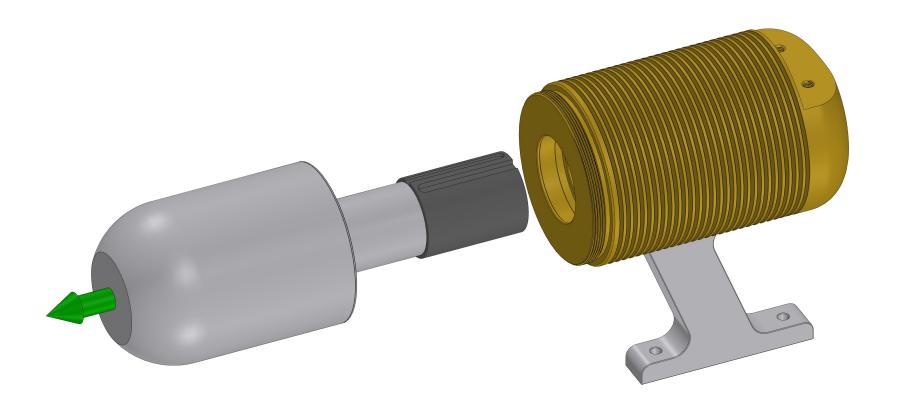


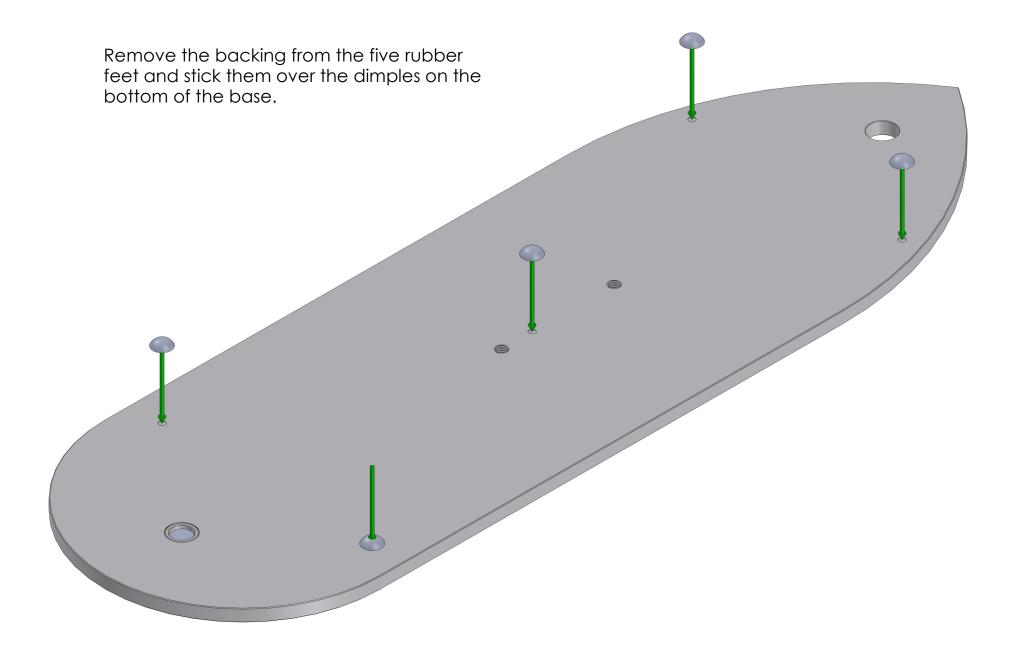


Unscrew the hot cap from the fins and remove the wadding from the inside.



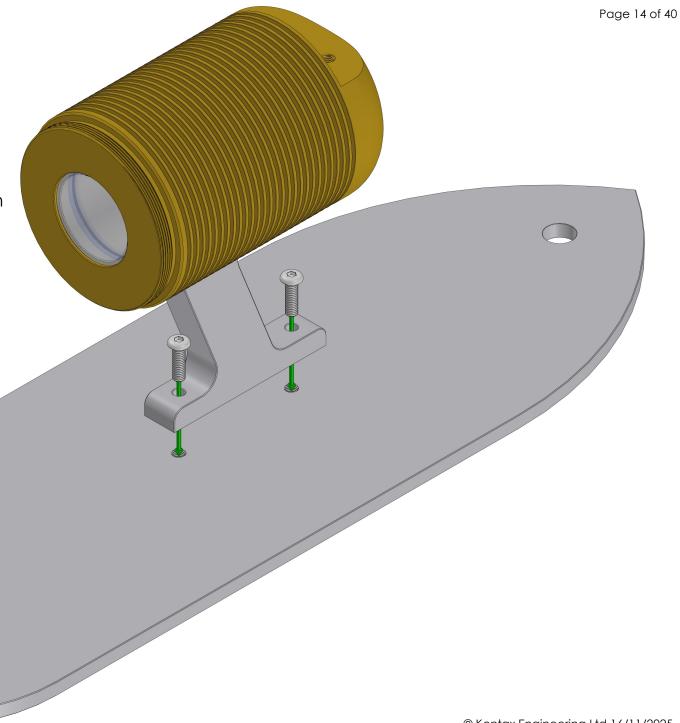
Remove the displacer and piston from the fins.

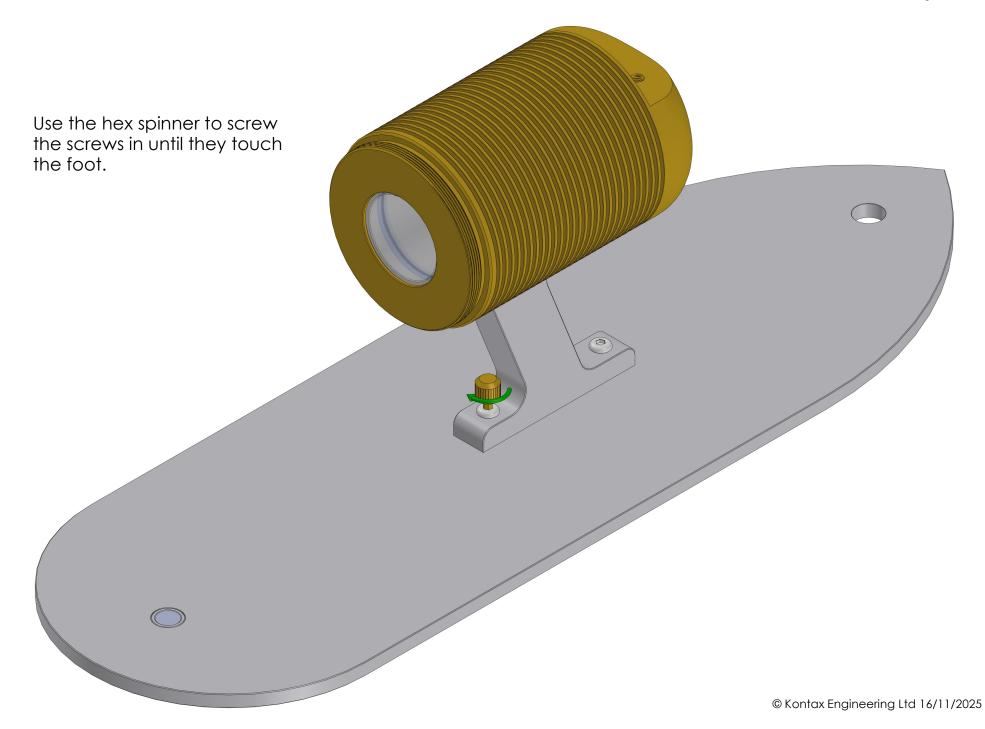


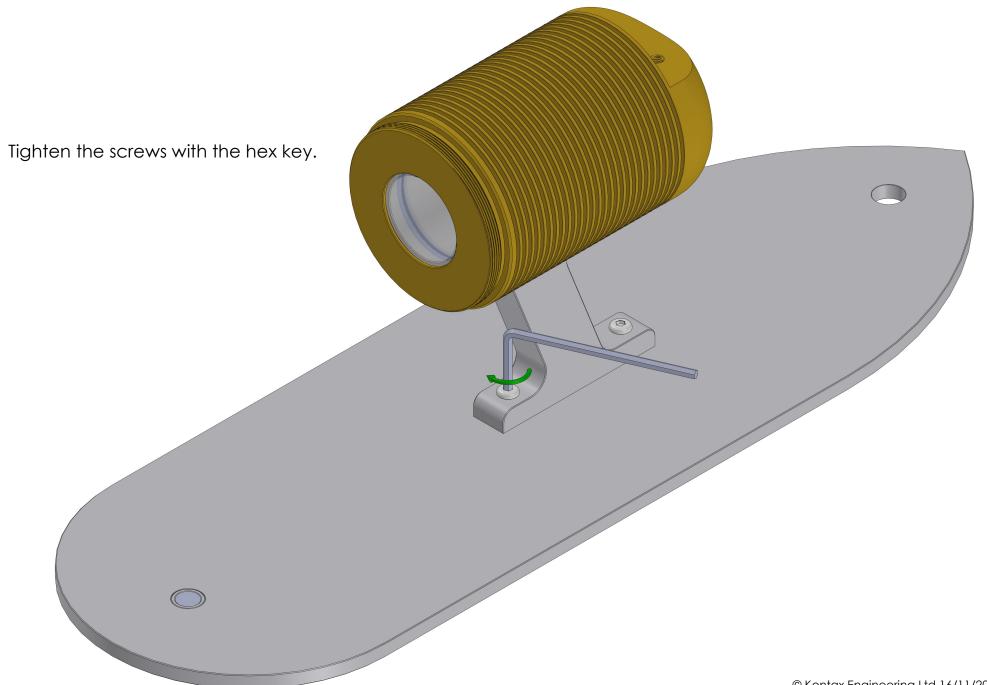


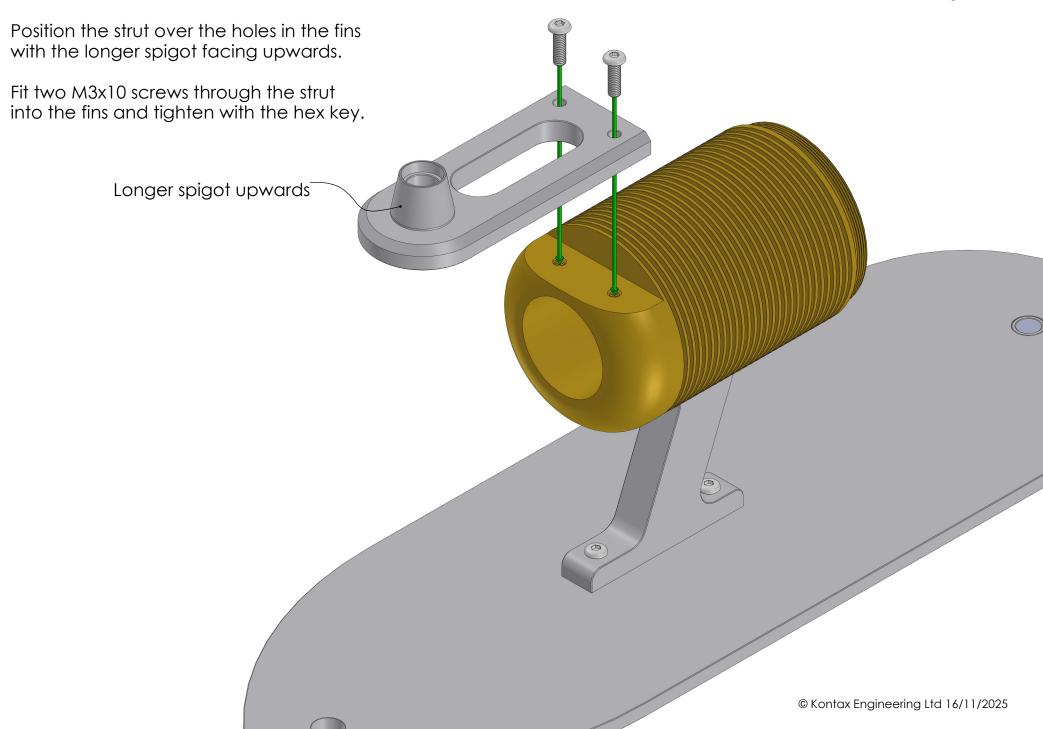
Lower the fins and foot down onto the base with the holes in the foot positioned over the holes in the base.

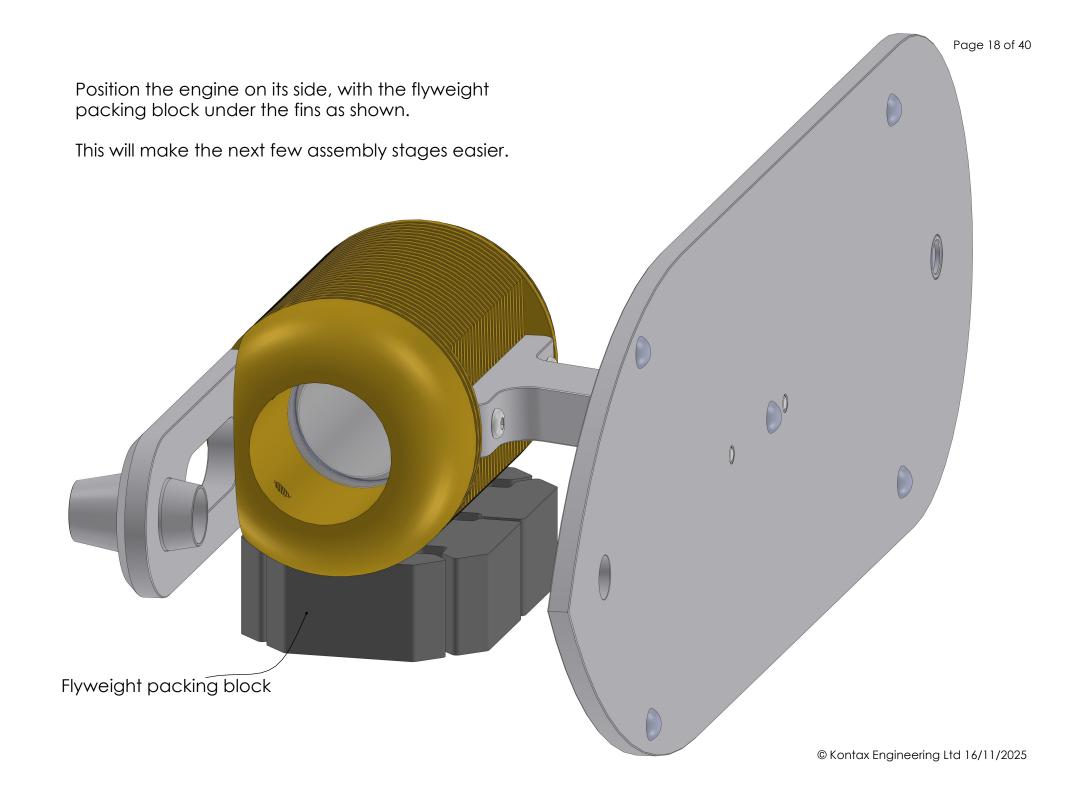
Drop two M3x10 screw into the holes in the feet so that they rest on the holes in the base.

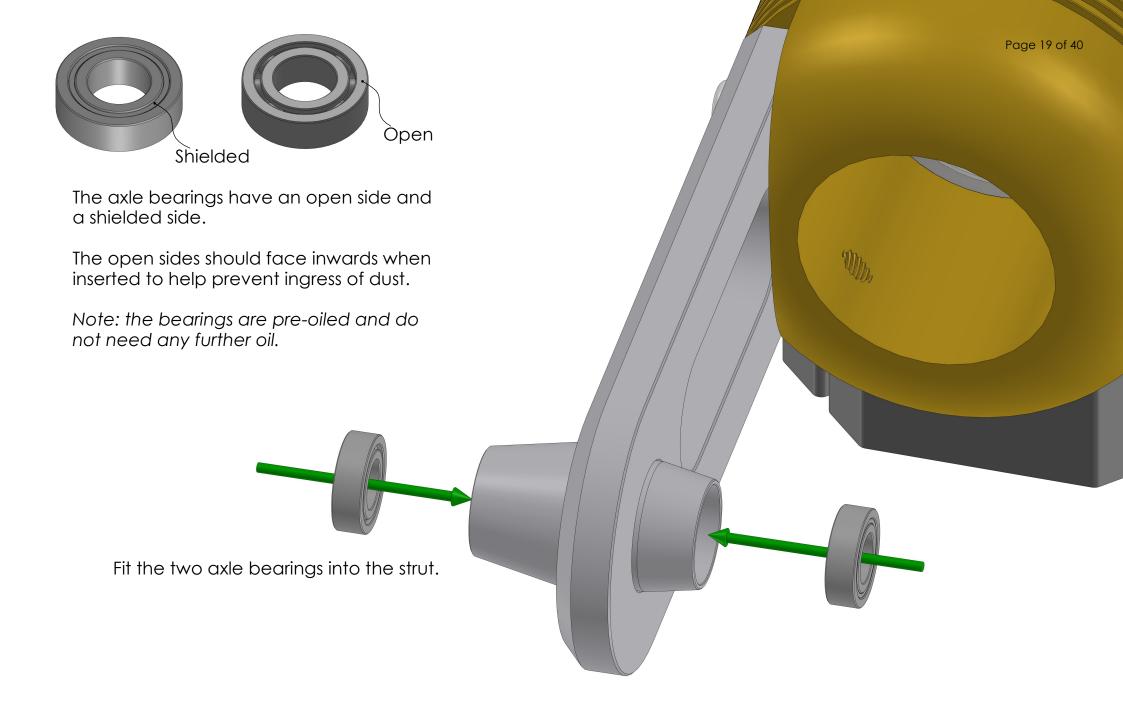


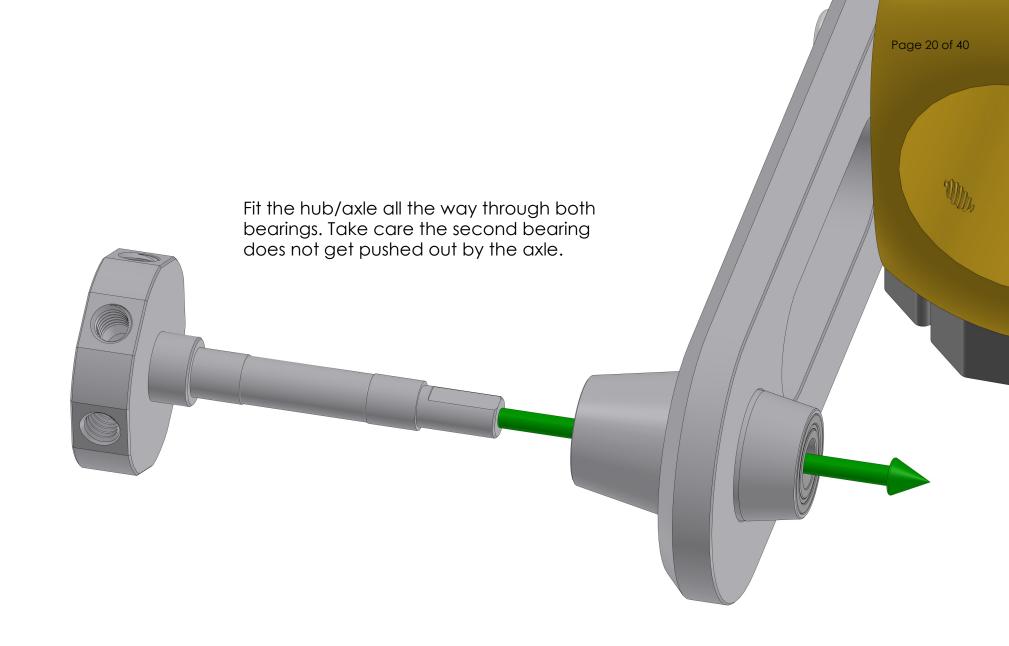


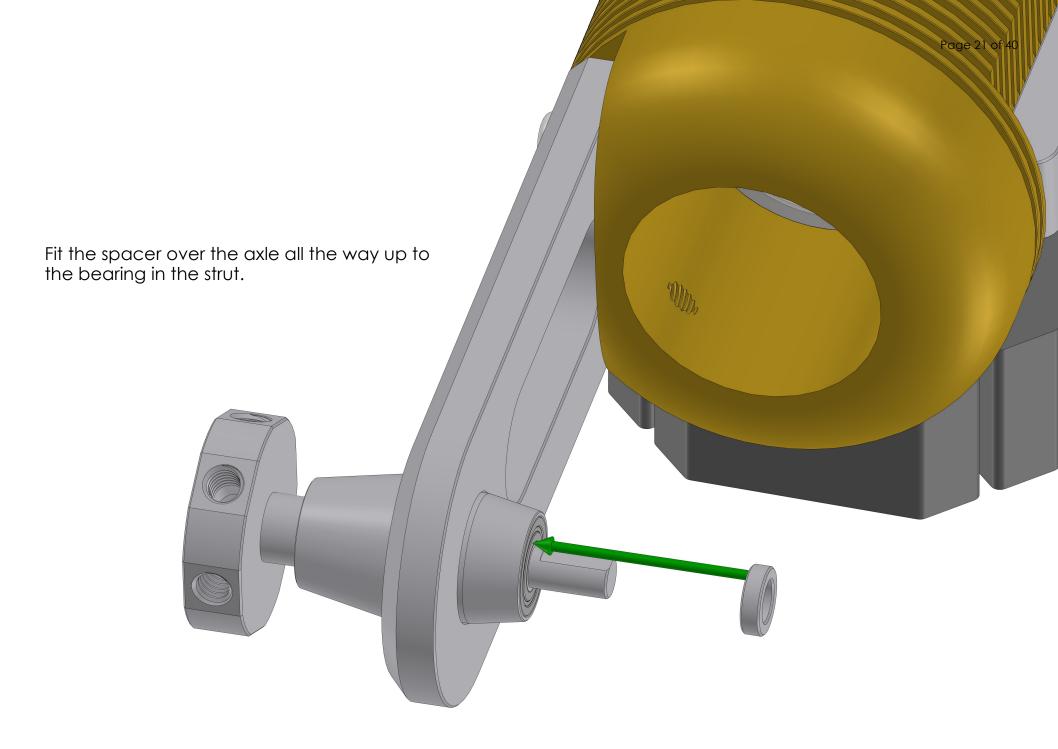


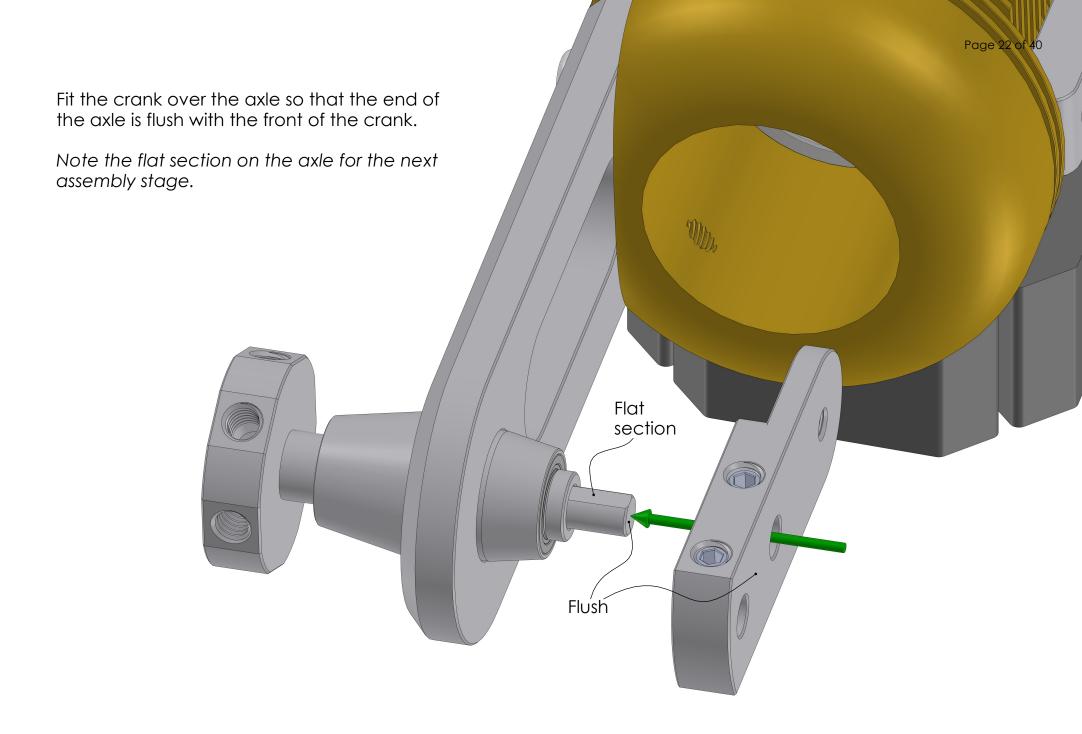


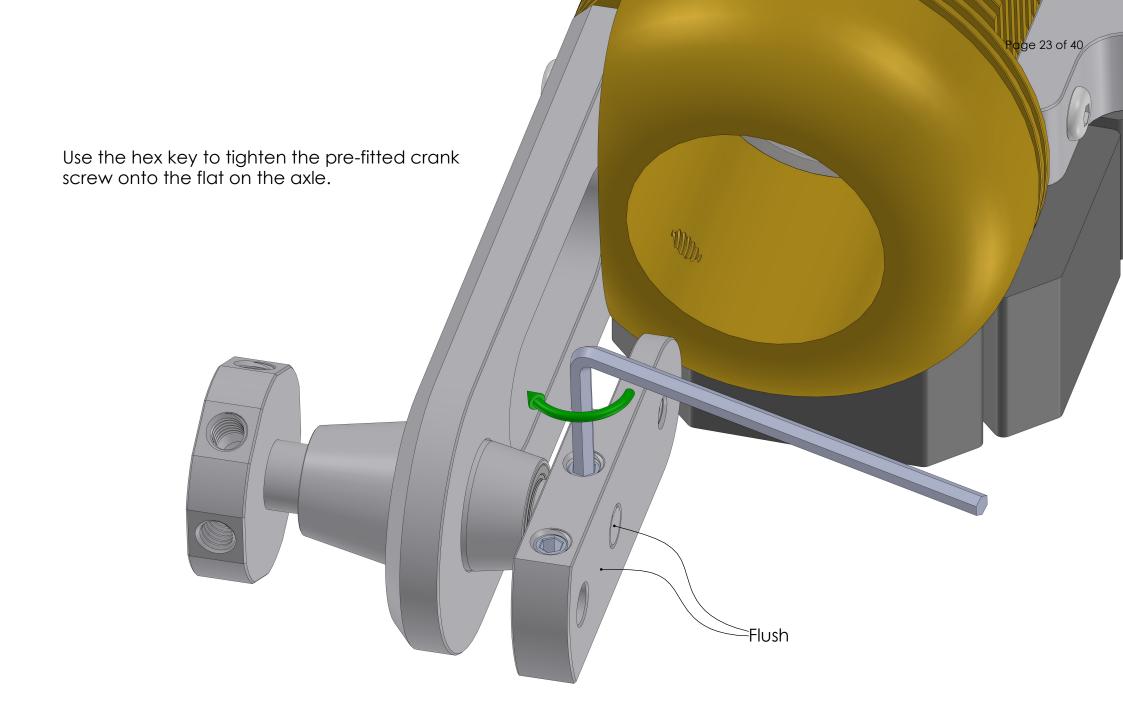


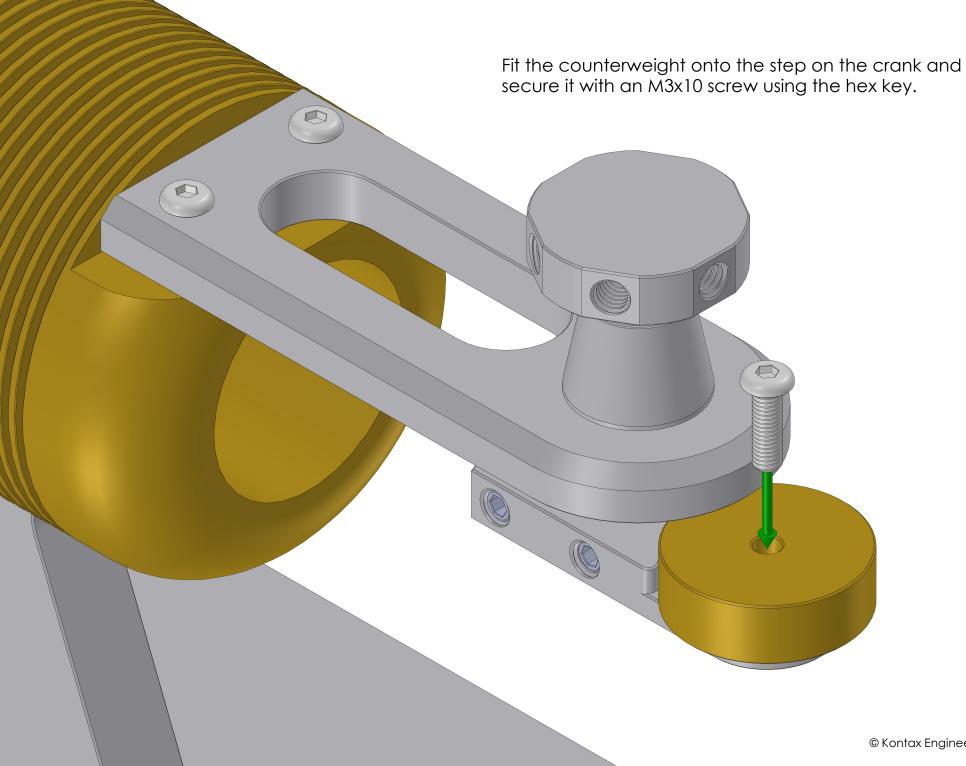












Fit the bearing bush into the smaller bearing in the conrod. It will be a tight fit and may require pressing on the edge of a table.



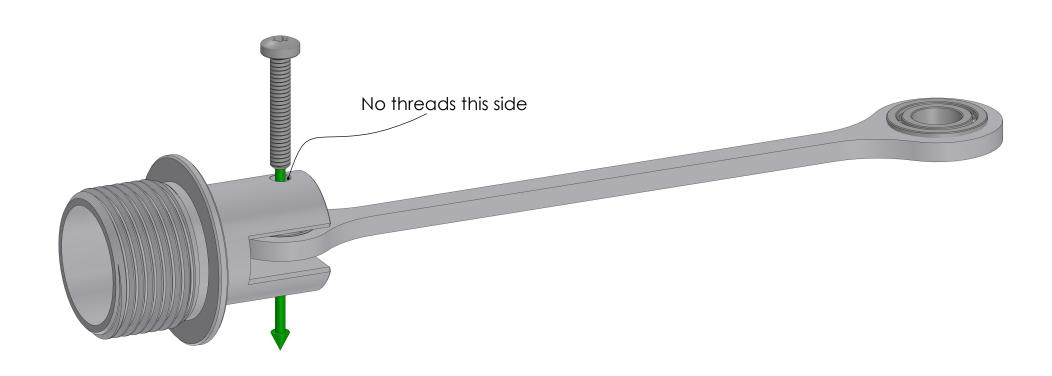


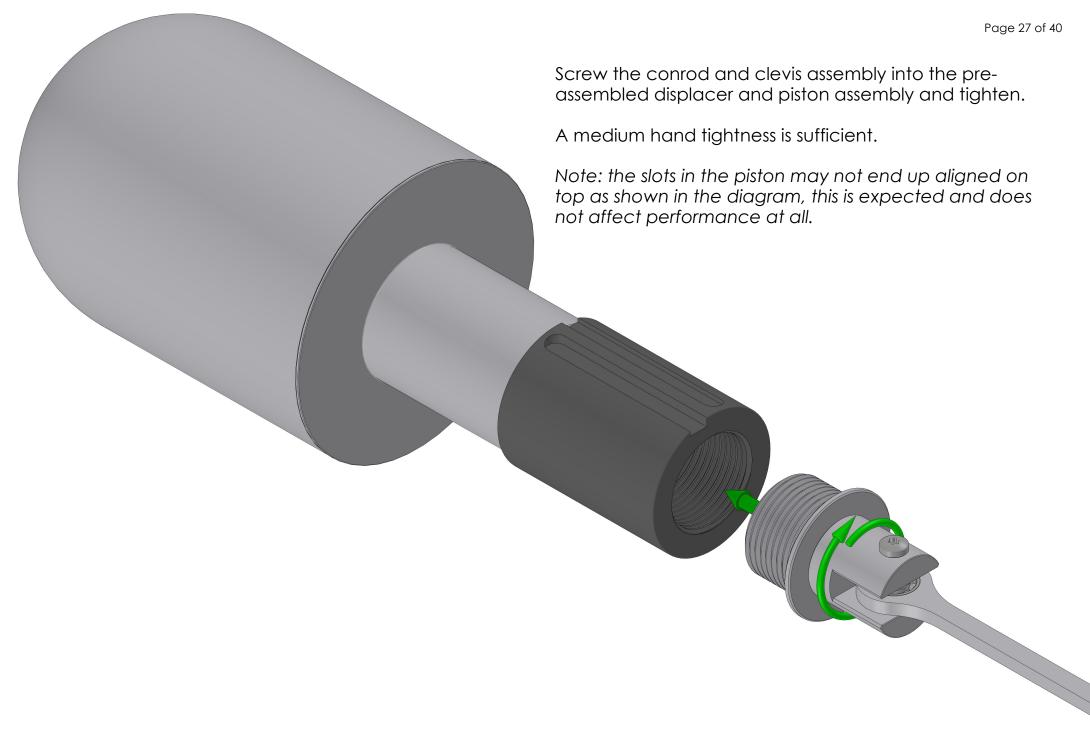


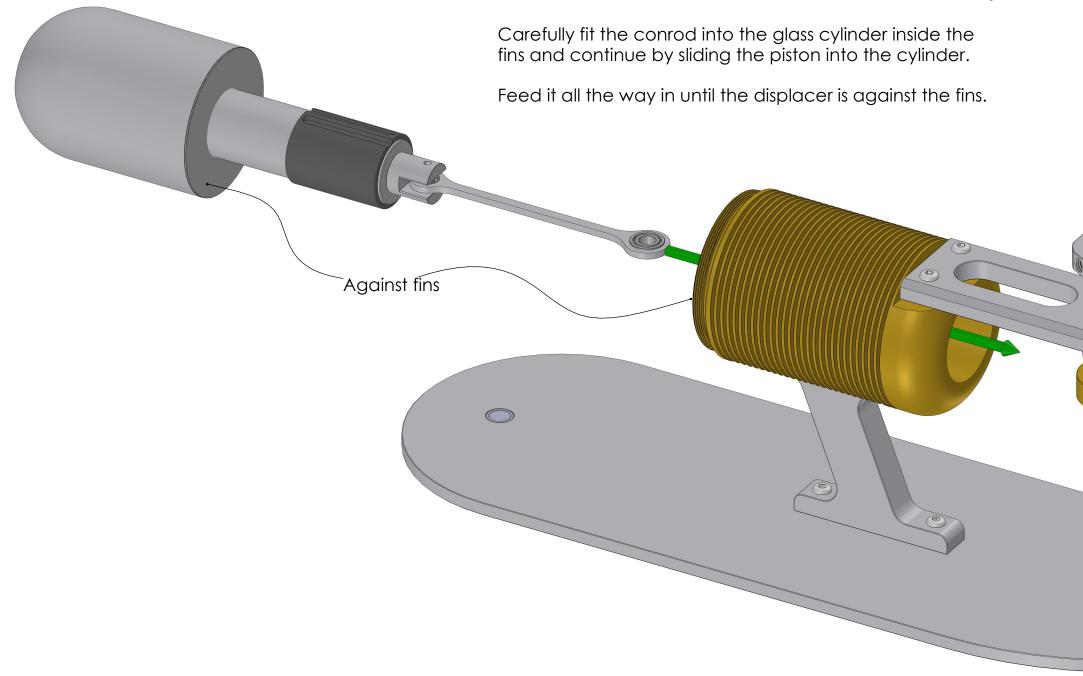
The bush should be positioned so that it is centralised on the bearings.

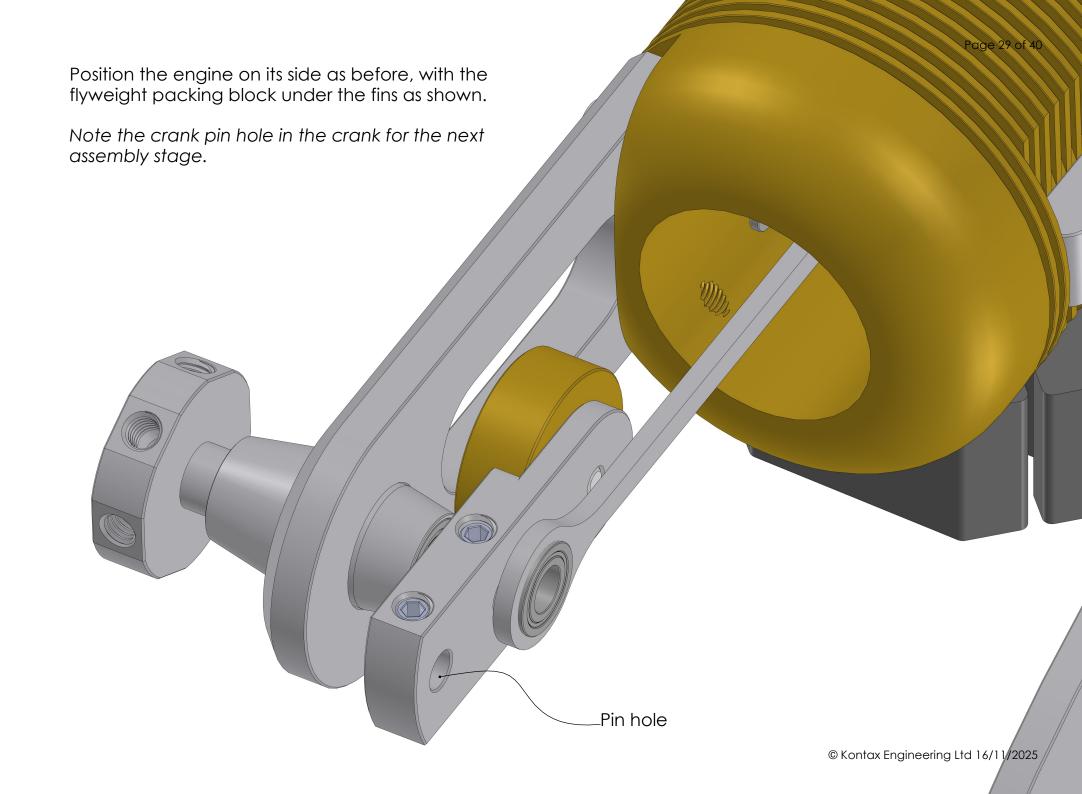
Fit the conrod and bearing bush into the slot in the clevis so that the bush lines up with the hole in the clevis. Fit the M2x12 screw into the clevis, through the bush and tighten with the T6 driver.

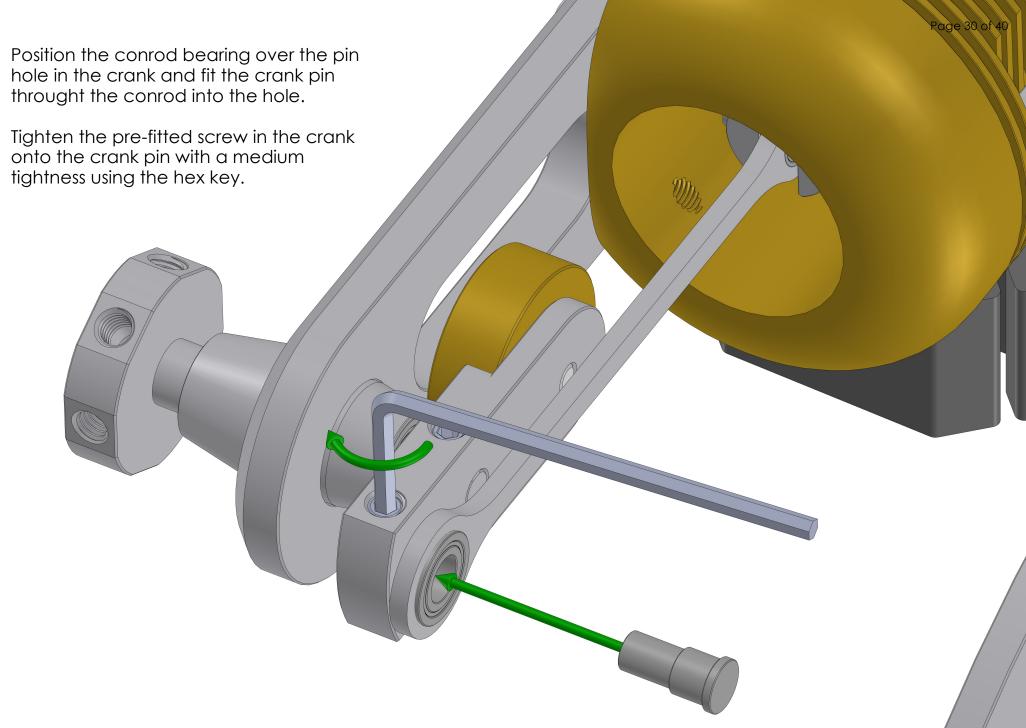
Note: one side of the clevis has no threads, the screw should be fitted through from this side.

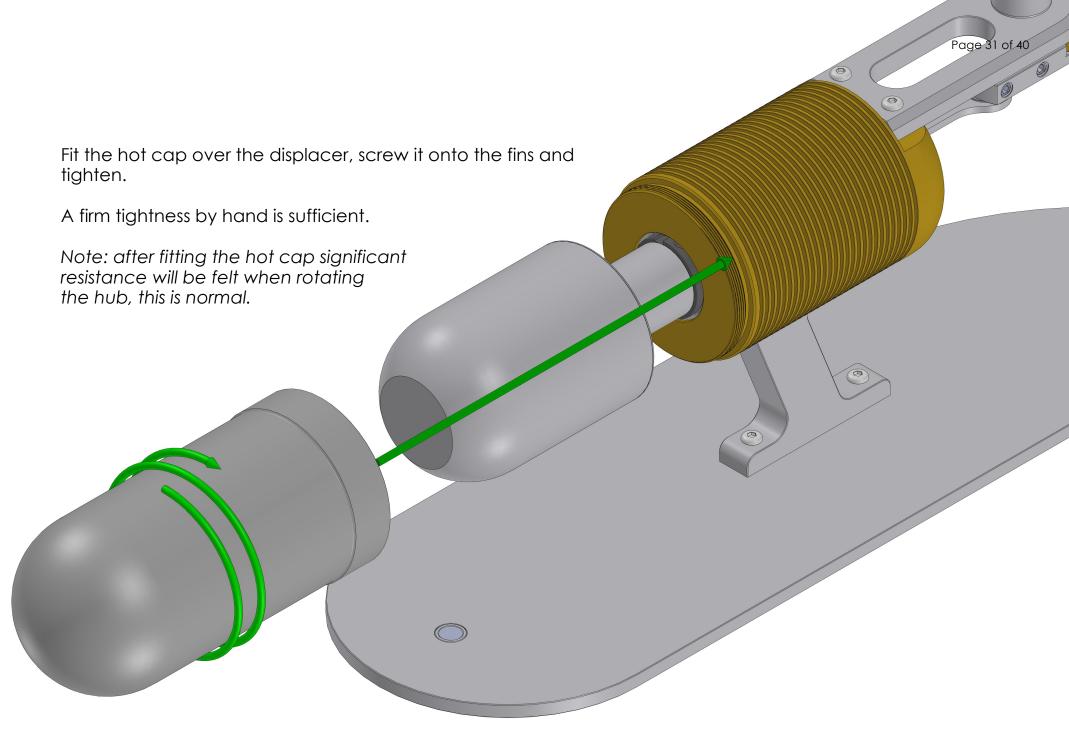


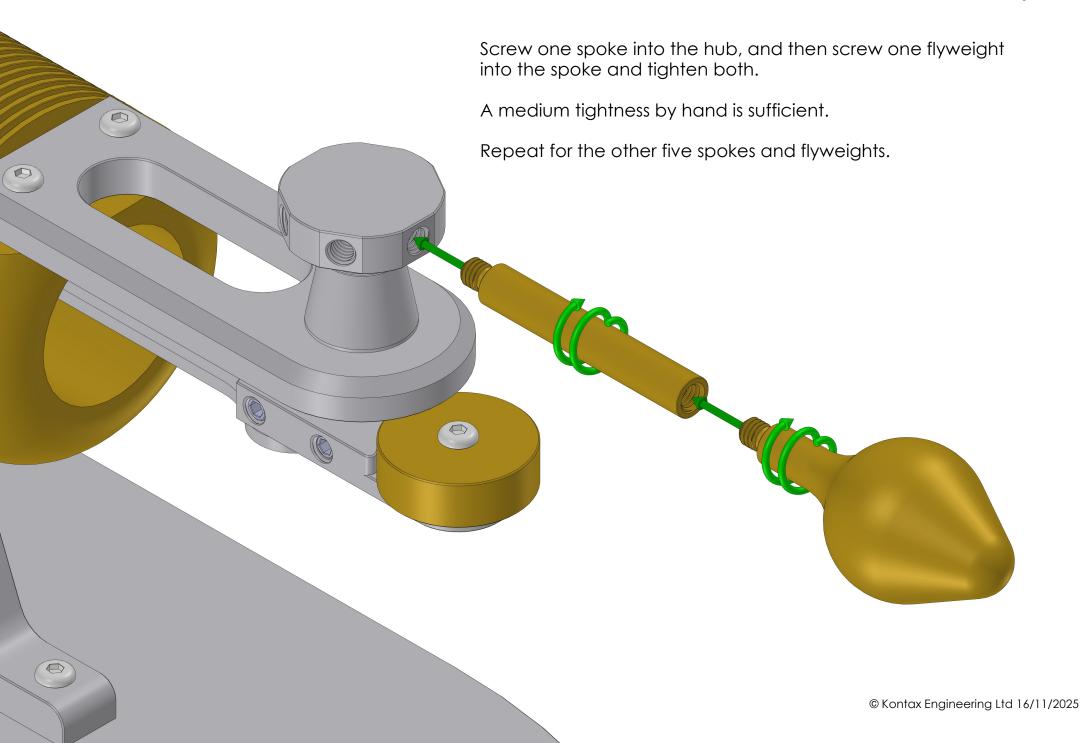


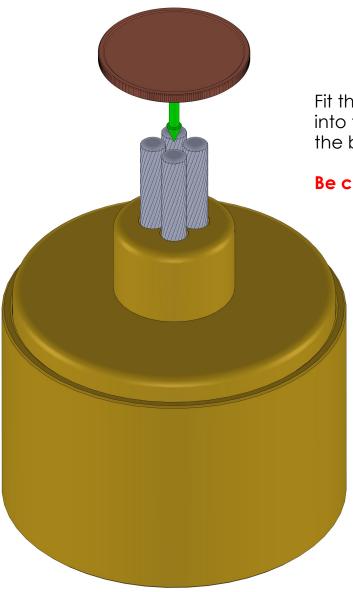






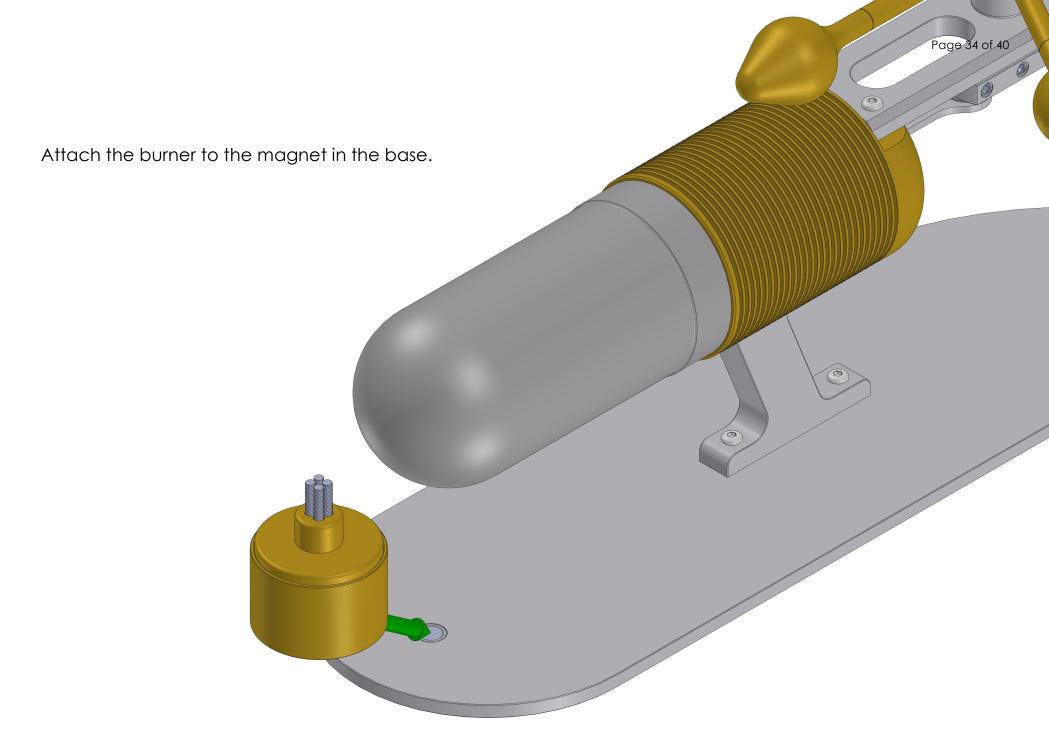






Fit the burner cap into the burner and then fit the wicks into the cap. Use a coin to push the wicks all the way into the bottom of the burner body.

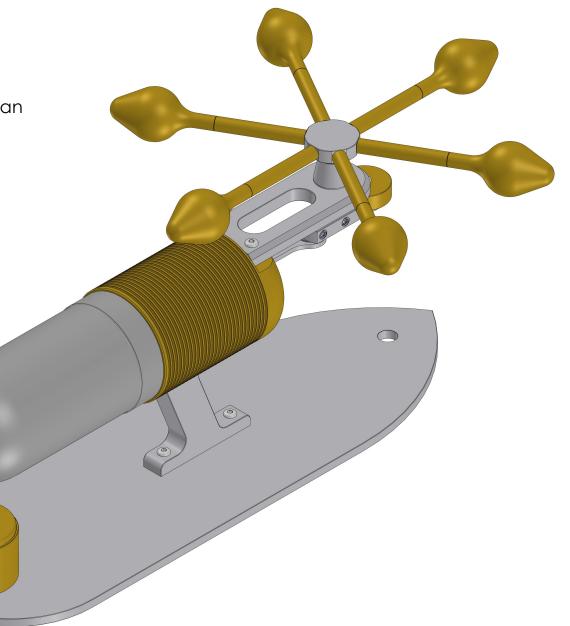
Be careful of sharp strands on the wicks!



Your Kontax Flame Pod engine is now fully assembled.

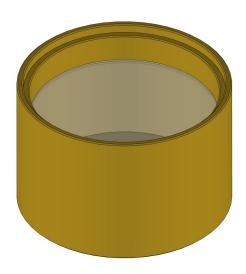
Operation and maintenance information can be found in the next few pages.

If you need help with your engine you can email us at: support@stirlingengine.co.uk



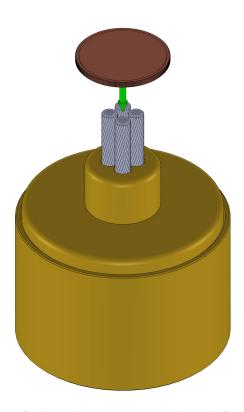
#### **SAFETY NOTICE:**

- All parts of the engine will be very hot while in operation and will take time to cool down after running.
- The flame produced by a steel wick can be almost invisible, ensure burner is extinguished after use.
- Make sure you have a suitable fire extinguisher to hand in case of emergencies.
- Never leave a running engine or naked flame unattended.
- Make sure children are fully supervised.

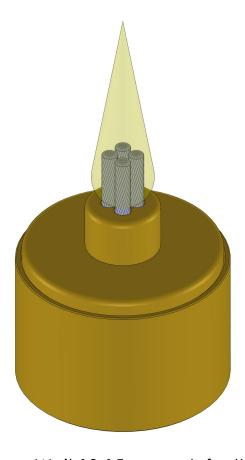


The engine uses Methylated Spirits or Denatured Alcohol as fuel.

Remove the burner cap and wicks from the burner body and fill the body with fuel to the fill line.



Fit the burner cap back into the burner body and press the wicks with a coin to make sure they are the correct length.



Wait 10-15 seconds for the wicks to draw up some fuel and then light them.

You should get a flame about 20-30mm high.

## **Operation**

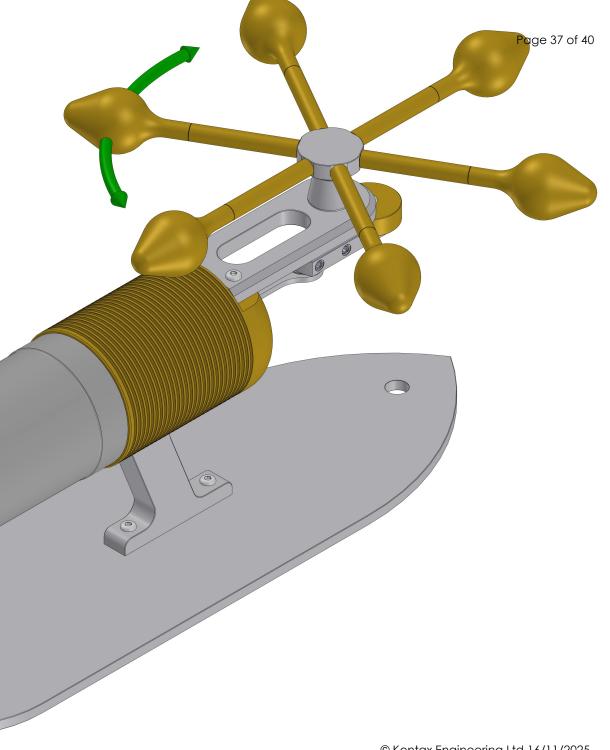
Carefully attach the lit burner to the magnet in the base and allow the engine to heat up for 2 minutes.

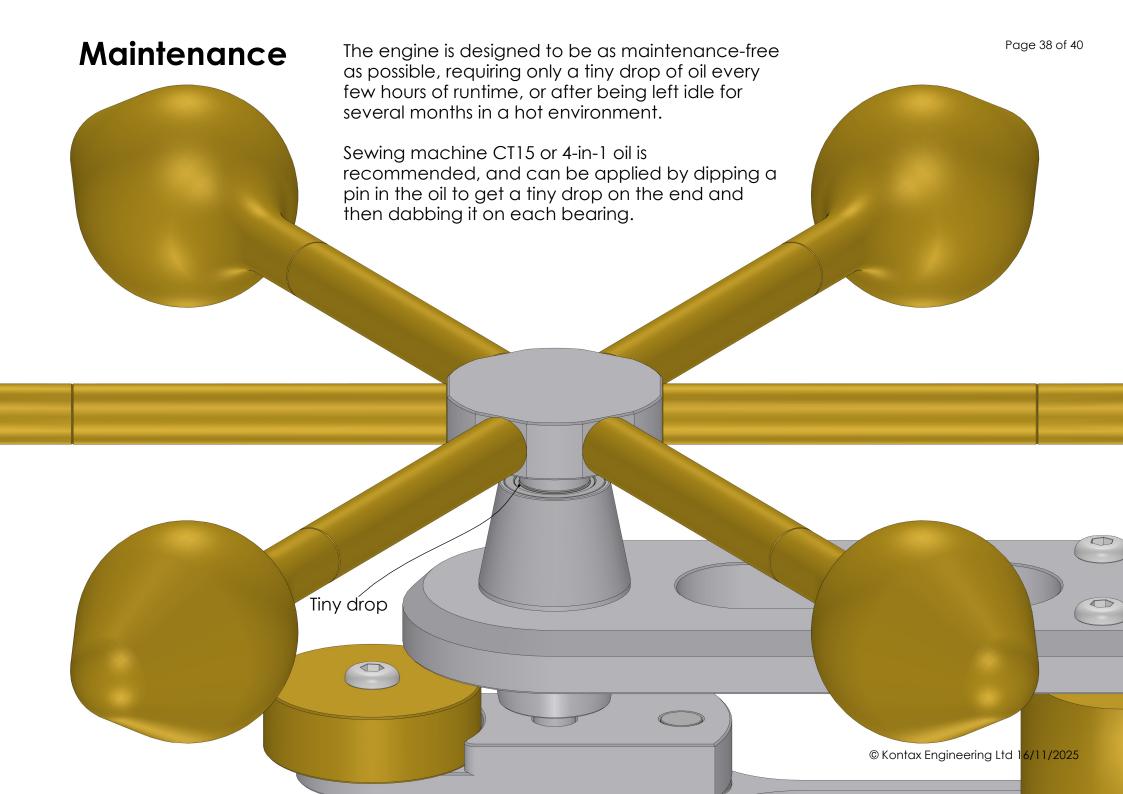
After the engine has heated up give it a spin, it will run in either direction.

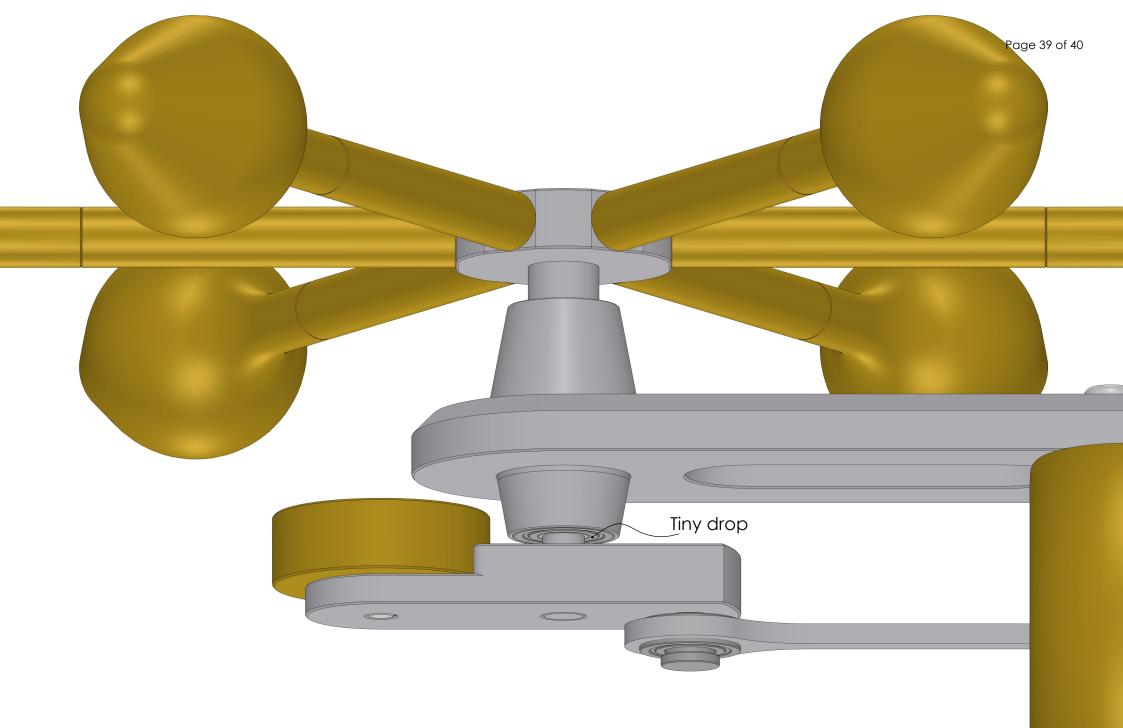
The engine will increase in speed over the first 2 minutes of operation before reaching its steady operational speed, which is between 180-250rpm.

The fuel should be enough for a 10 minute run.

**Ensure burner is fully** extinguished after use!









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