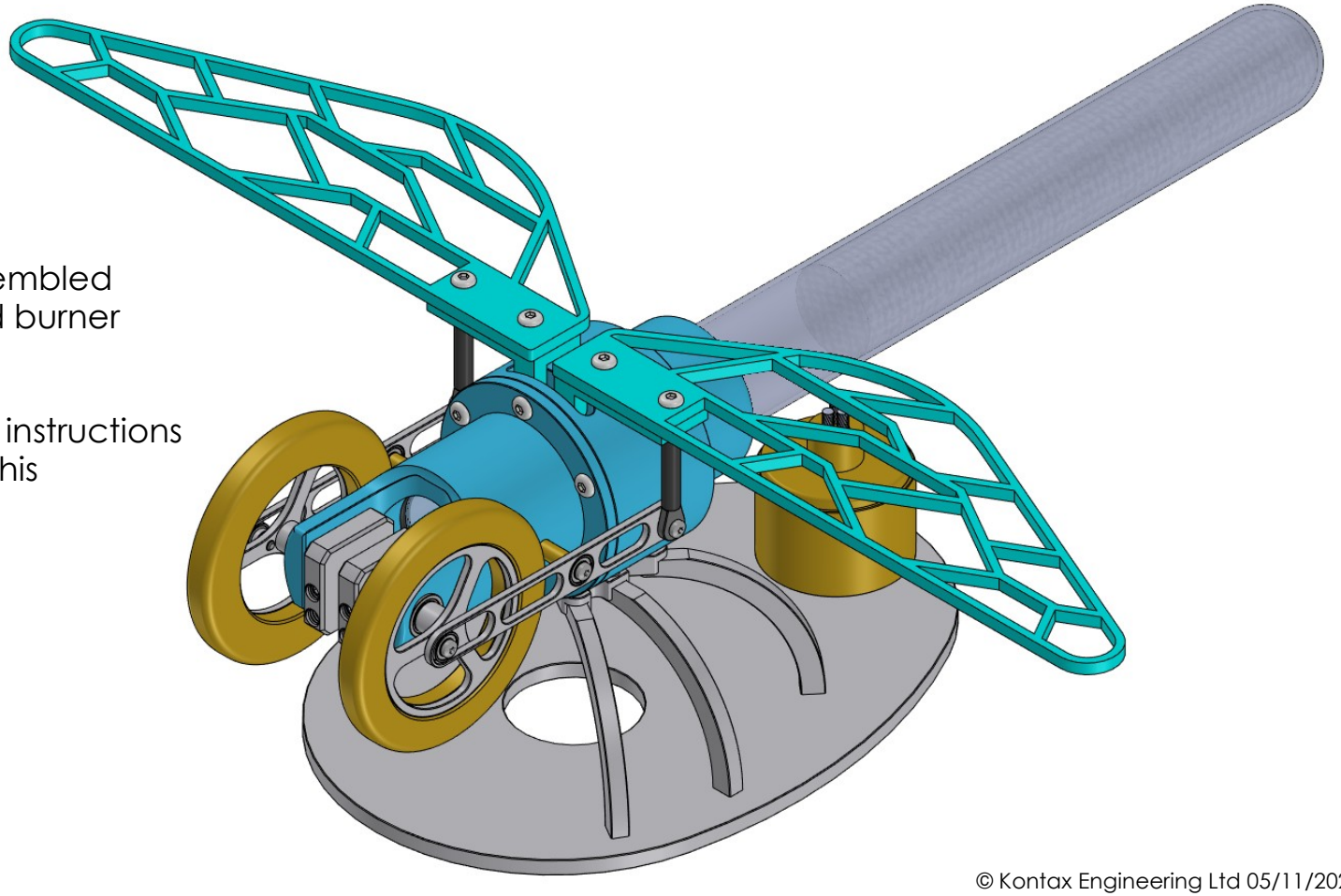
Kontax Flame Fly operation and maintenance instructions

- **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.**

The engine is almost fully assembled and just needs the wings and burner attaching.

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



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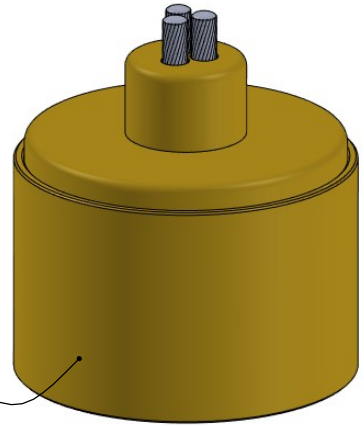
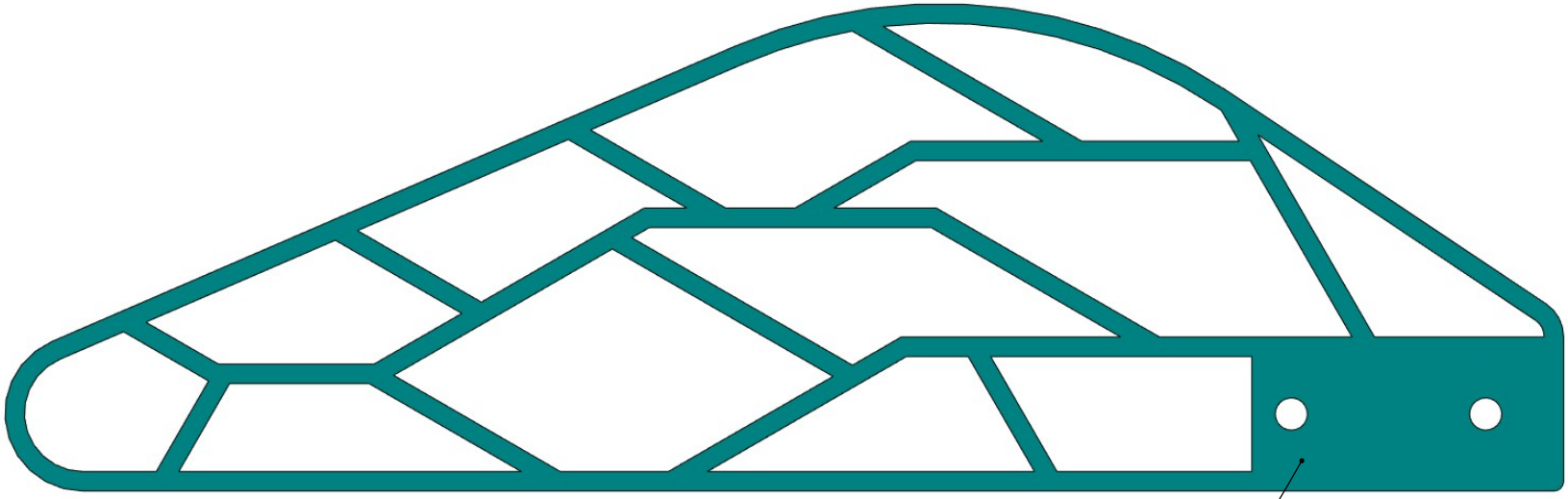
Parts List

1x 2mm Hex key



1x Burner



2x Wing

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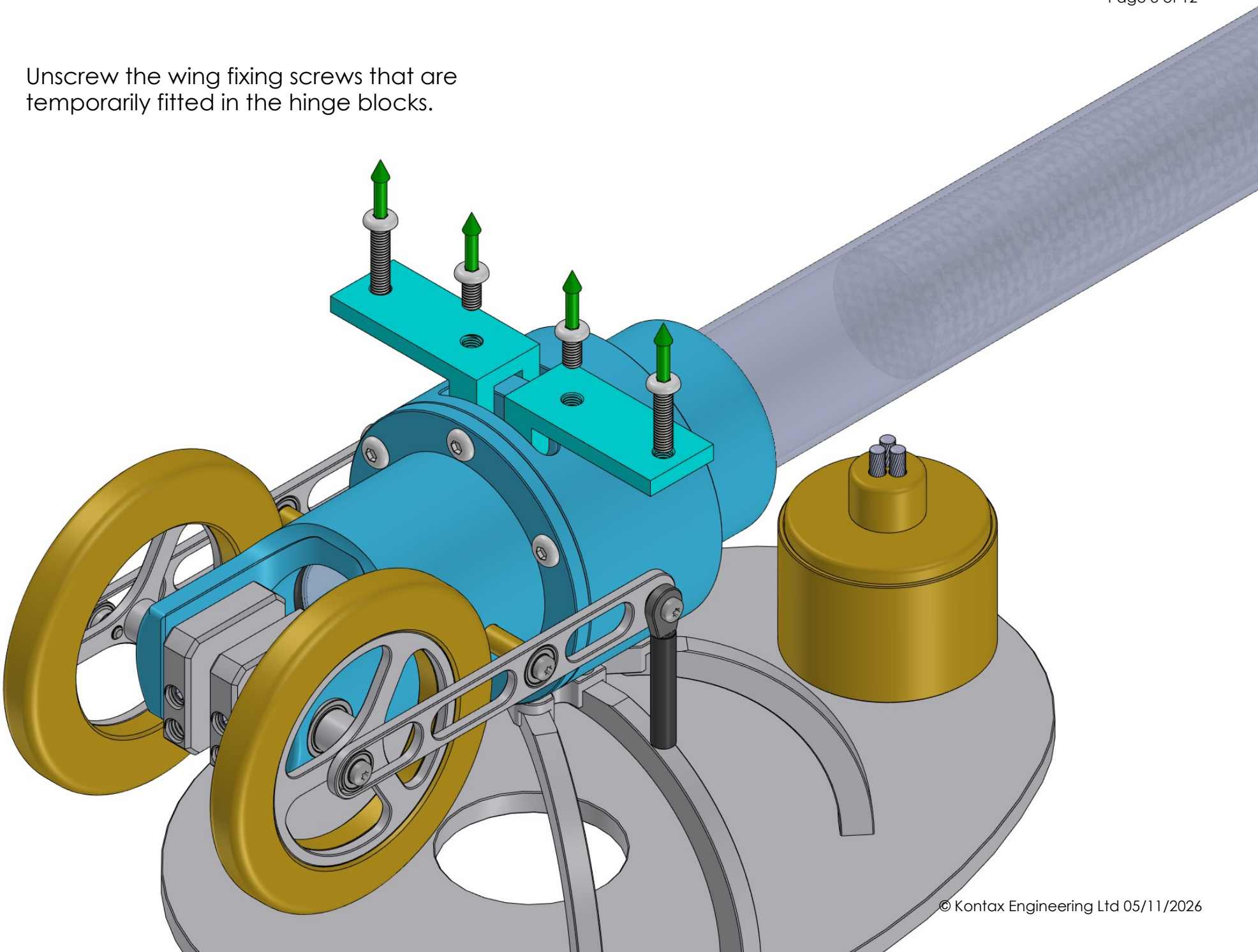
Unscrew the wing fixing screws that are temporarily fitted in the hinge blocks.



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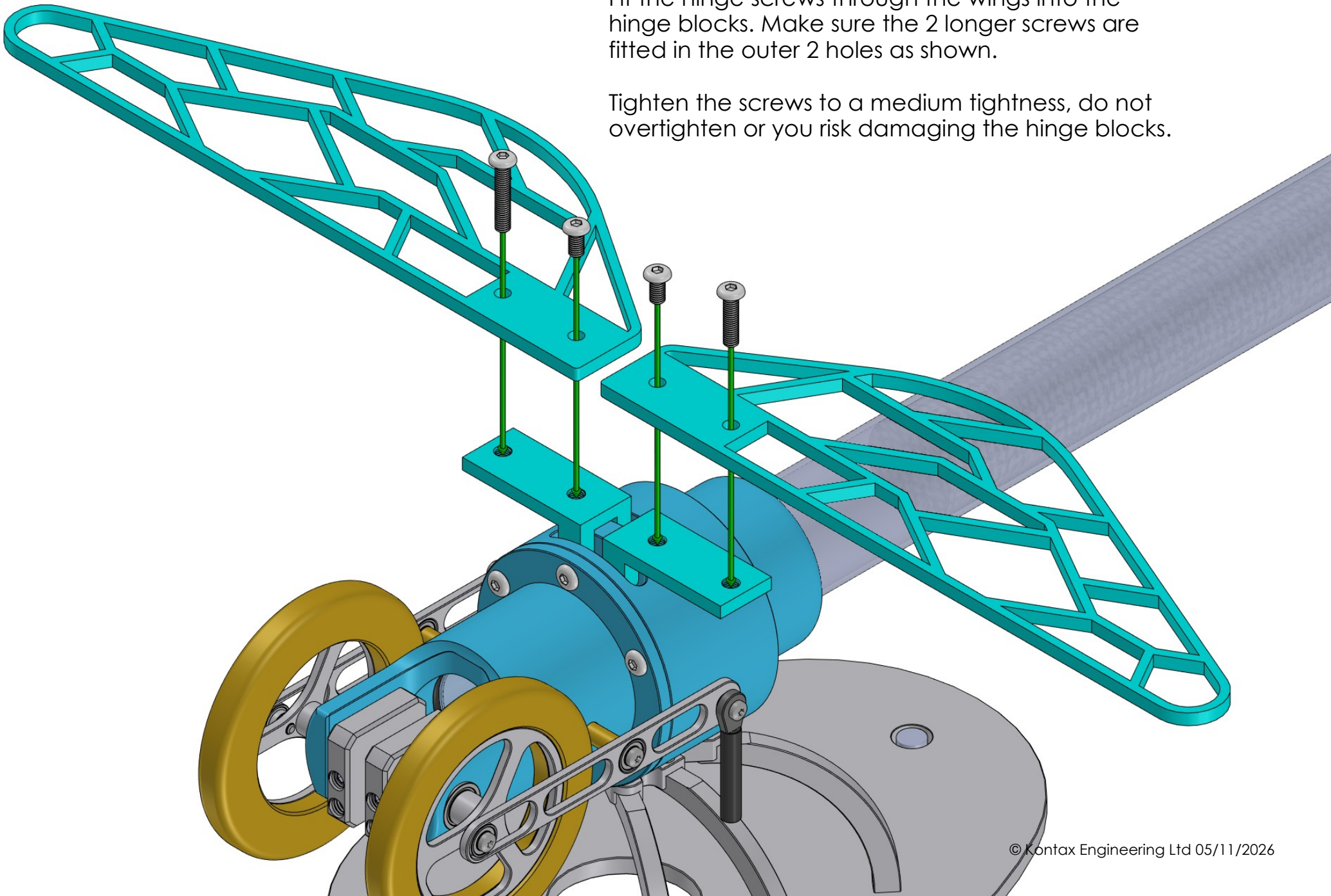
Fit the hinge screws through the wings into the hinge blocks. Make sure the 2 longer screws are fitted in the outer 2 holes as shown.

Tighten the screws to a medium tightness, do not overtighten or you risk damaging the hinge blocks.



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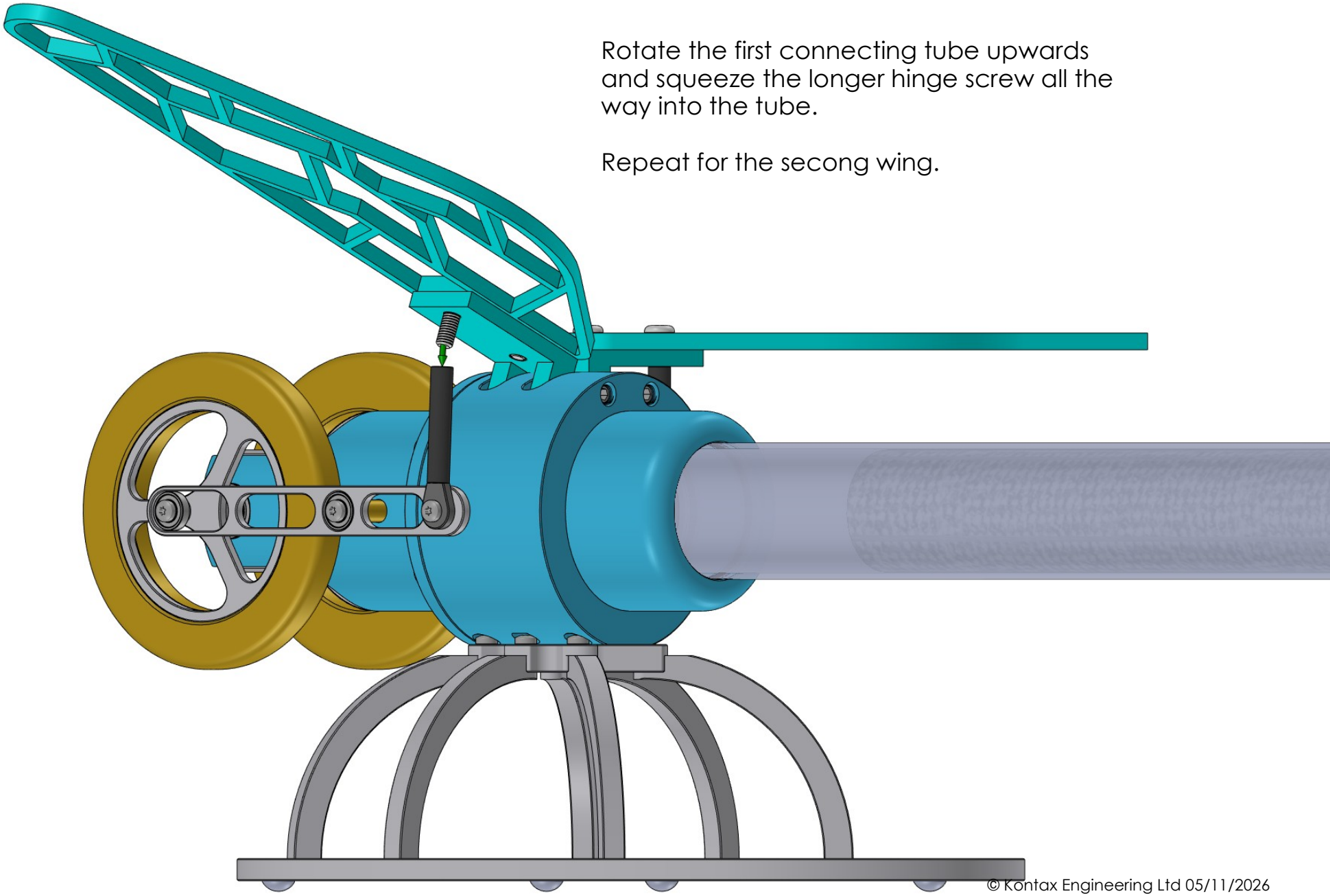

Rotate the first connecting tube upwards and squeeze the longer hinge screw all the way into the tube.

Repeat for the secong wing.

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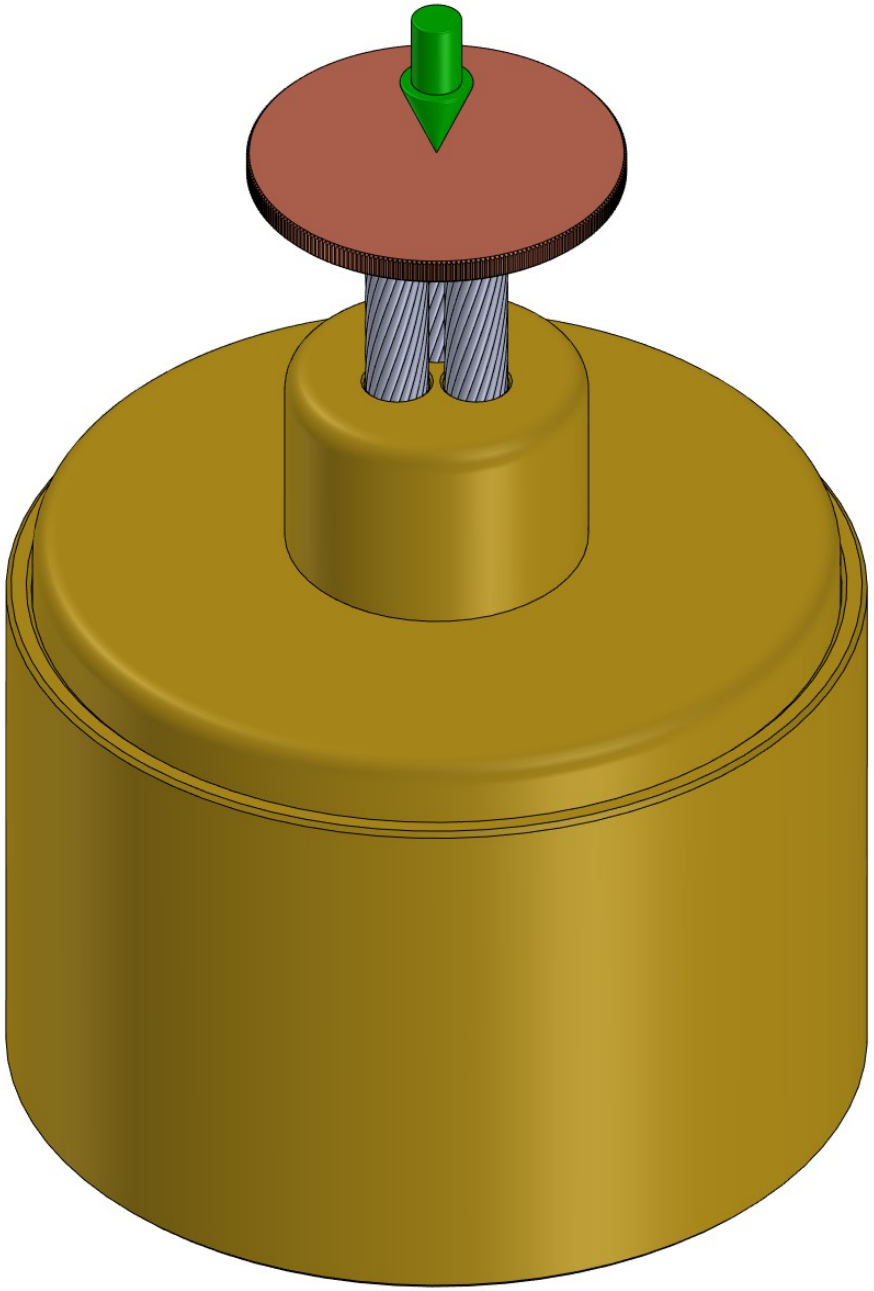

Fit the burner cap into the burner and then fit the wicks into the cap. Use a coin to push the wicks all the way into the bottom of the burner body.

Be careful of sharp strands on the wicks!

Do not push wicks with fingers!

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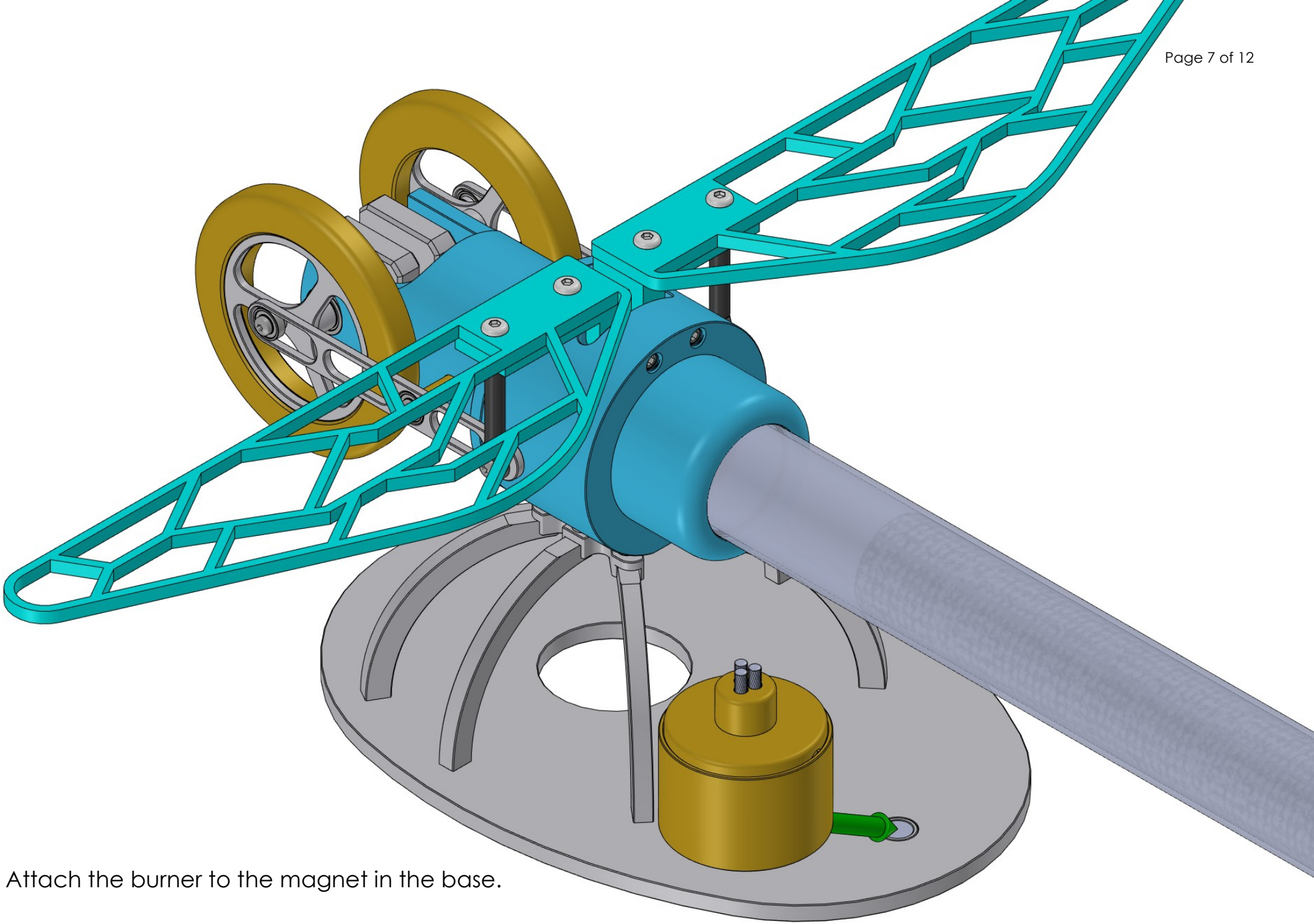

Attach the burner to the magnet in the base.

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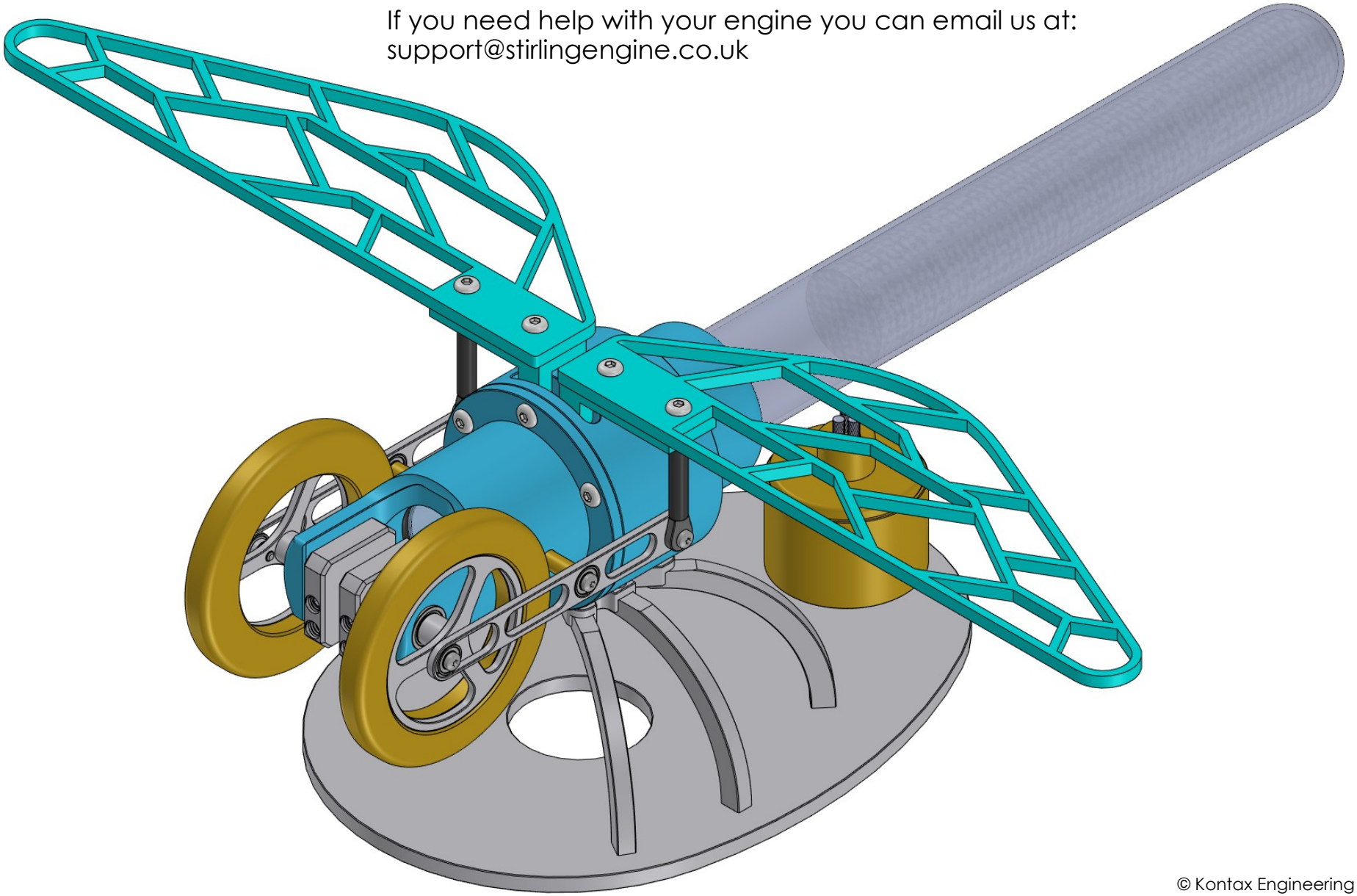
Your Kontax Flame Fly engine is now fully assembled.

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



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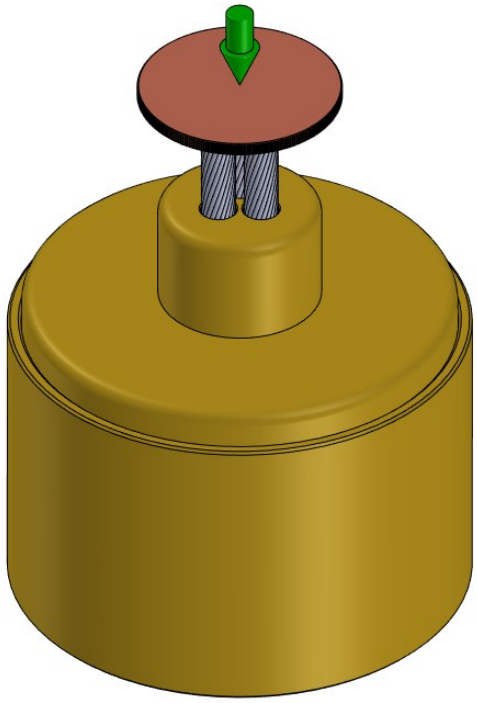
SAFETY NOTICE:

- 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 Bioethanol, Methylated Spirits or Denatured Alcohol as fuel. Bioethanol will give a cleaner burn and leave fewer deposits on the glass tube.

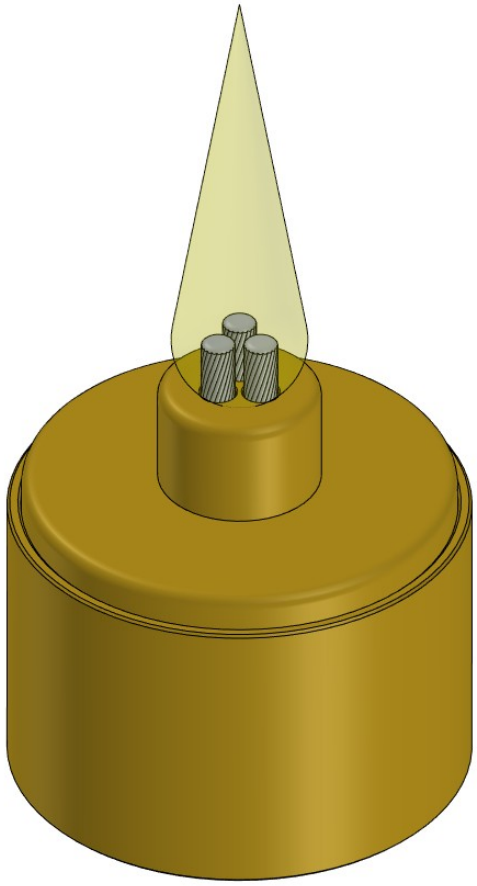
Remove the burner cap and wicks from the burner body and fill the body with fuel to the fill line.

DO NOT FILL HIGHER THAN 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.

Do not push wicks with fingers!



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.

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Operation

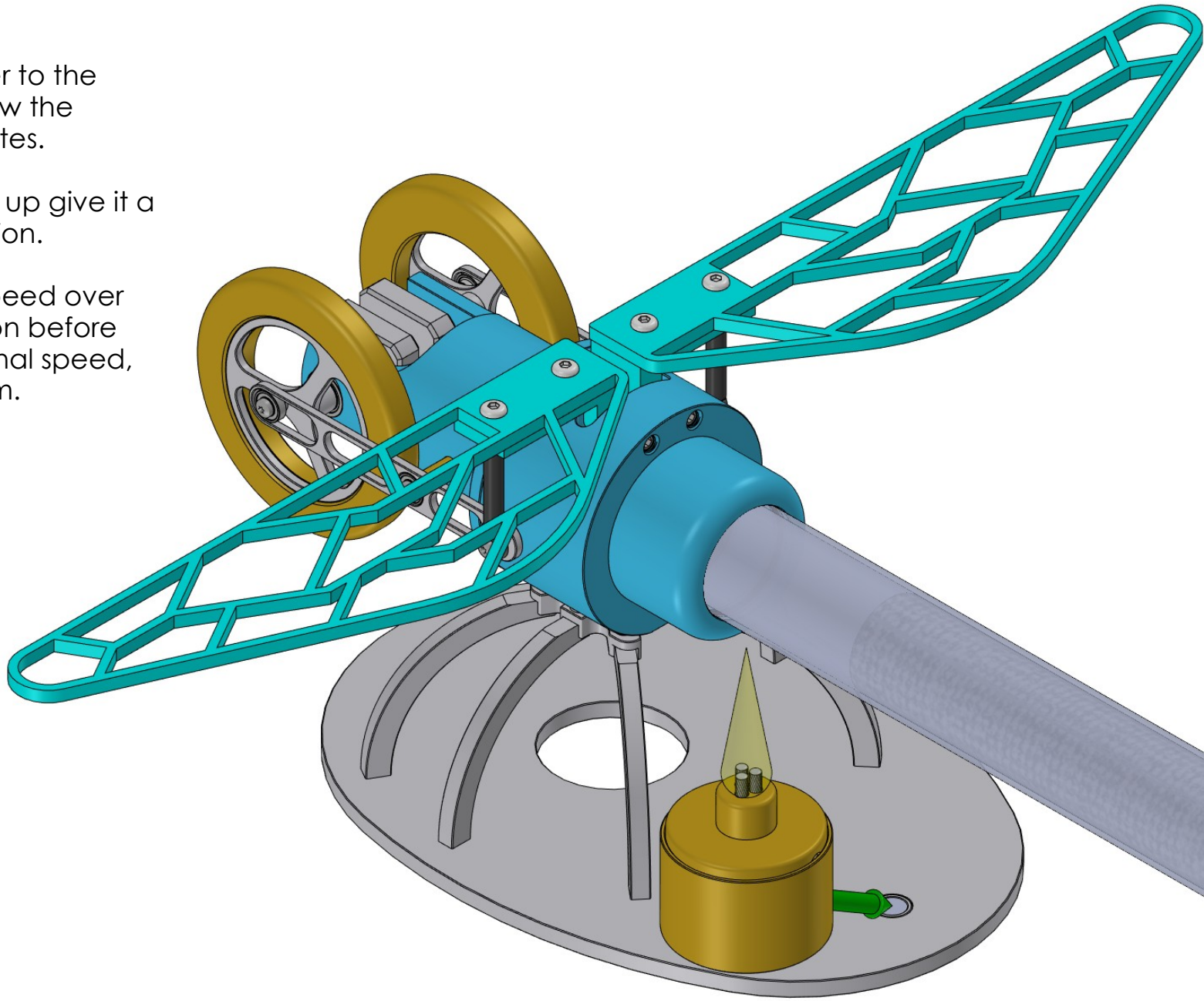
Carefully attach the lit burner to the magnet in the base and allow the engine to heat up for 2 minutes.

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 400-500rpm.

The fuel should be enough for a 10 minute run.

Ensure burner is fully extinguished after use!



Attach the burner to the magnet in the base.

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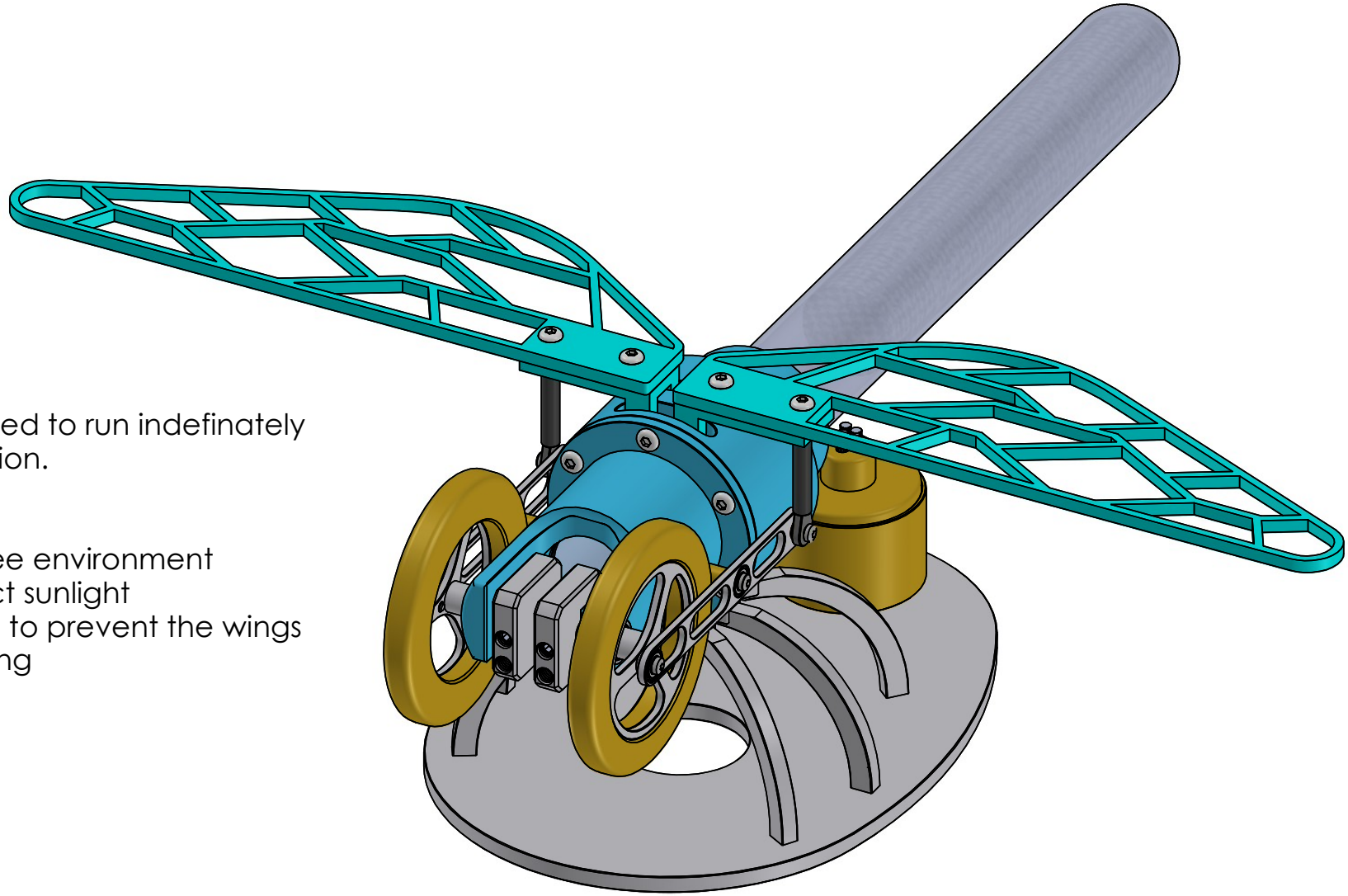
Care & maintenance



The engine is designed to run indefinately without any lubrication.

Notes on care:

- Keep in a dust free environment
- Keep out of direct sunlight
- Keep below 25°c to prevent the wings warping or sagging

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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.

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