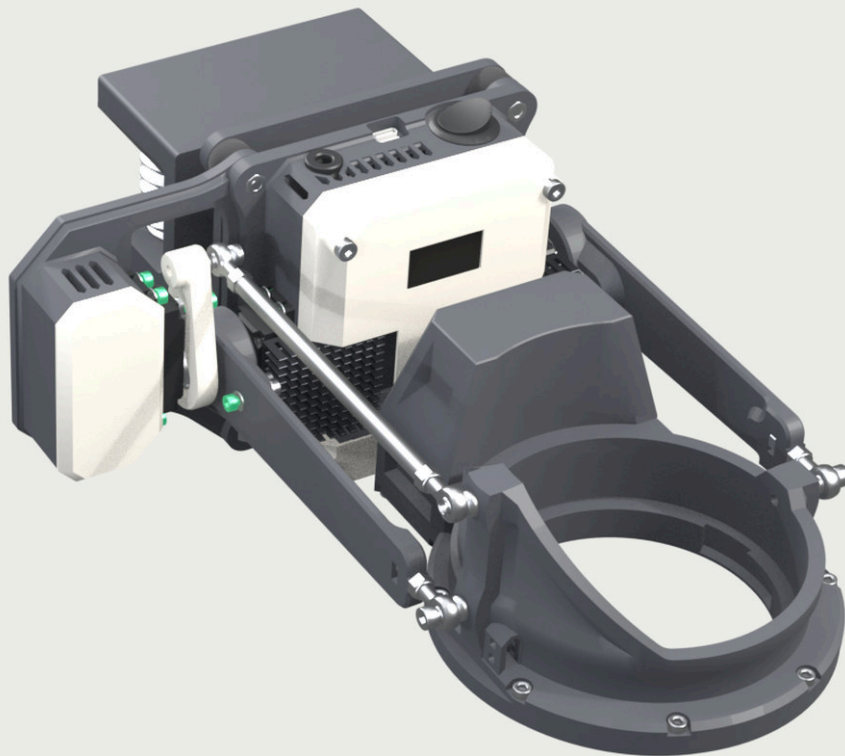


Re-tightening the Bolts & Twist Gear Service

OSR2 · VESPERA Edition

i Use hand tools. Be gentle. Revolve until it's snug, then a little tight. Don't overdo it.



Before you start

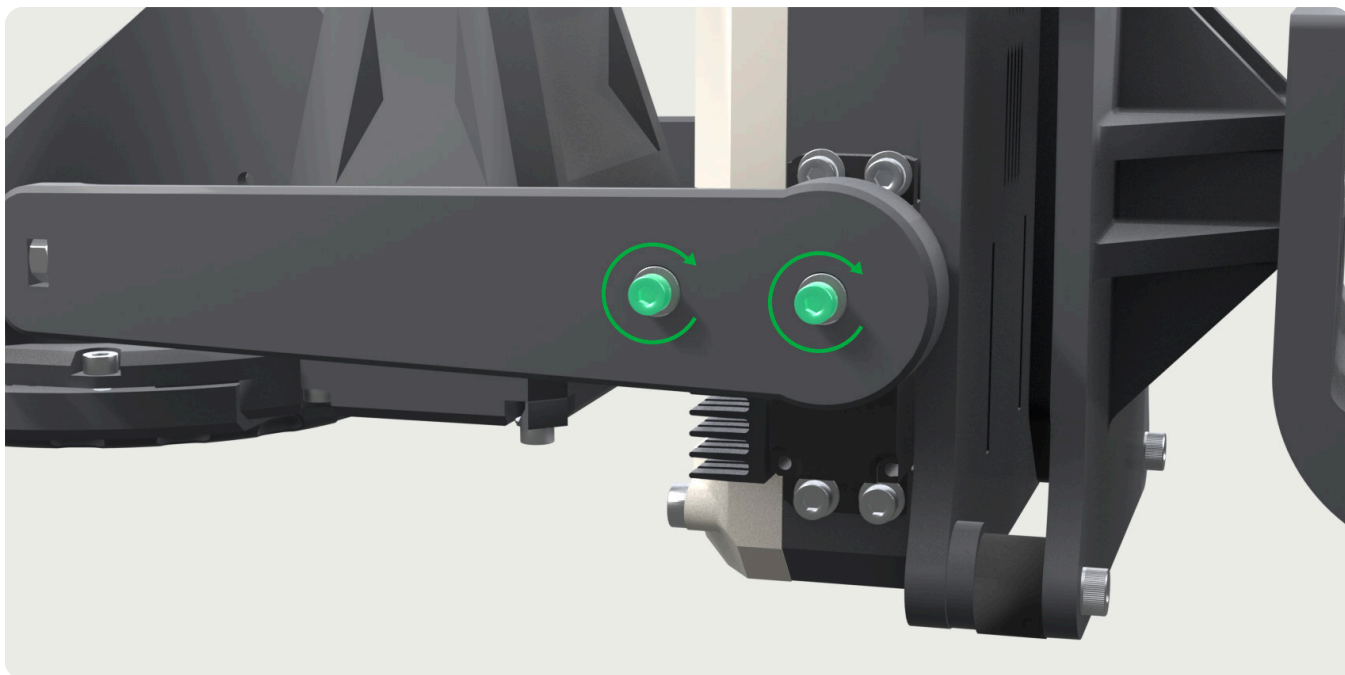
- Switch the machine off and unplug it.
- Hex keys for M4 and M3.
- Some glue, in case the dowel pin has a lot of play.
- Some lubricant for the Fleshlight twist gear.

What gets tightened

- **Bearing arms:** 2× M3 each, at the motor.
- **Main motors:** 4× M3×16 each.
- **Pitch:** 4× M3×16 on the motor, 2× M3 on the pitch arm.
- **Twist motor:** 4× M3.

1 Tighten the right bearing arm screws a bit

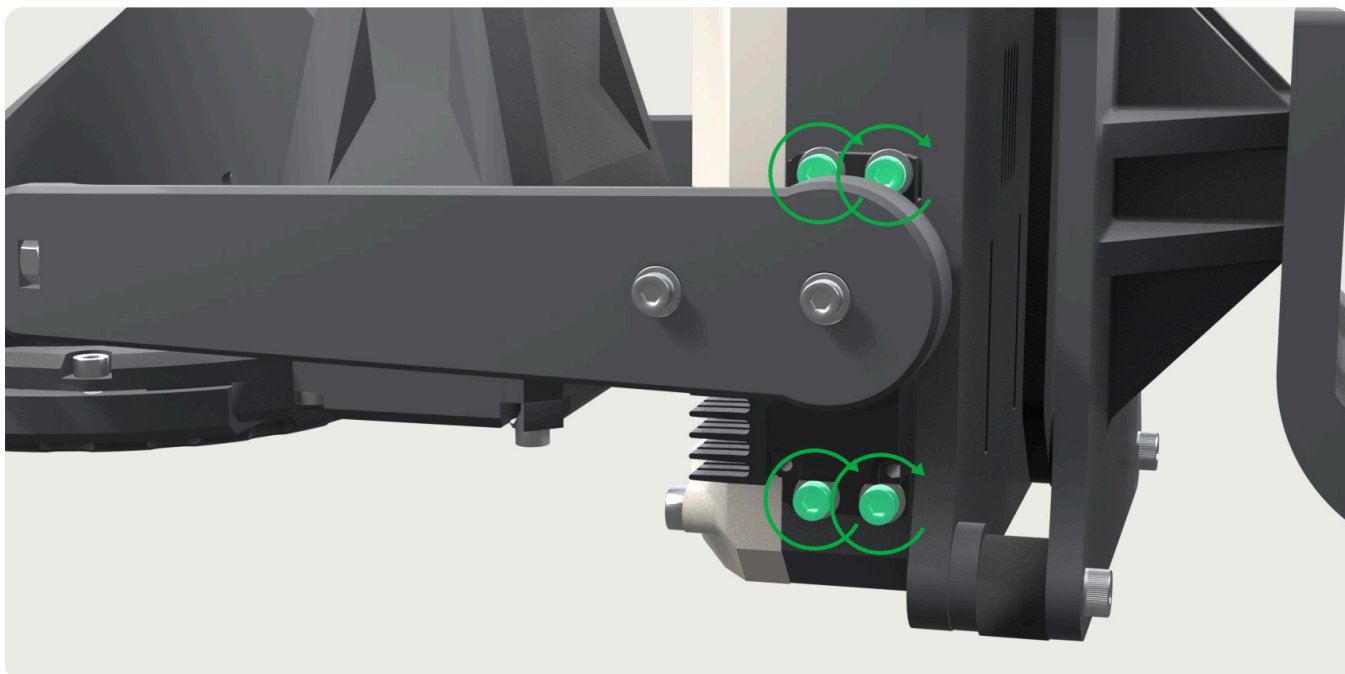
2× M3



⚠ Snug, then a little tight. Don't overdo it.

2 Tighten the 4 bolts on the right motor

4× M3×16

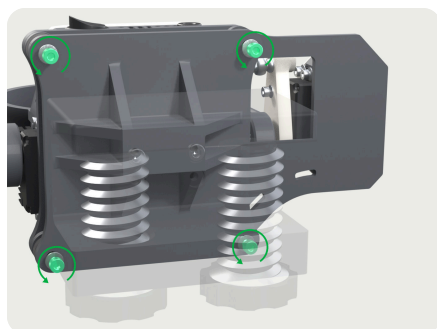


⚠ Snug, then a little tight. Don't overdo it.

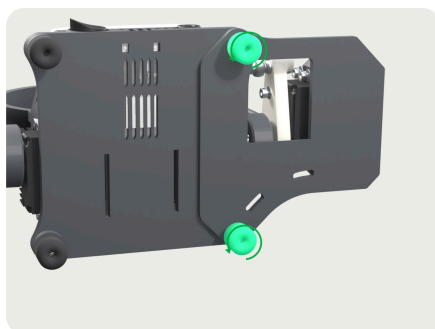
3 Take the desk mount off and move the pitch out the way

4× M4×12

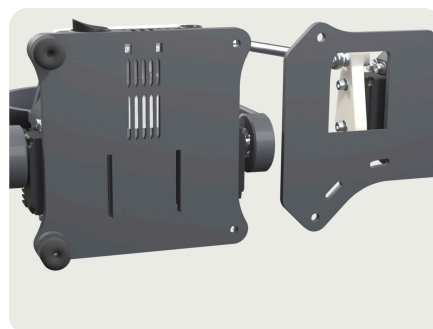
2× M4 rubber mounts



Desk mount: the 4 bolts



Pitch: the 2 rubber mounts

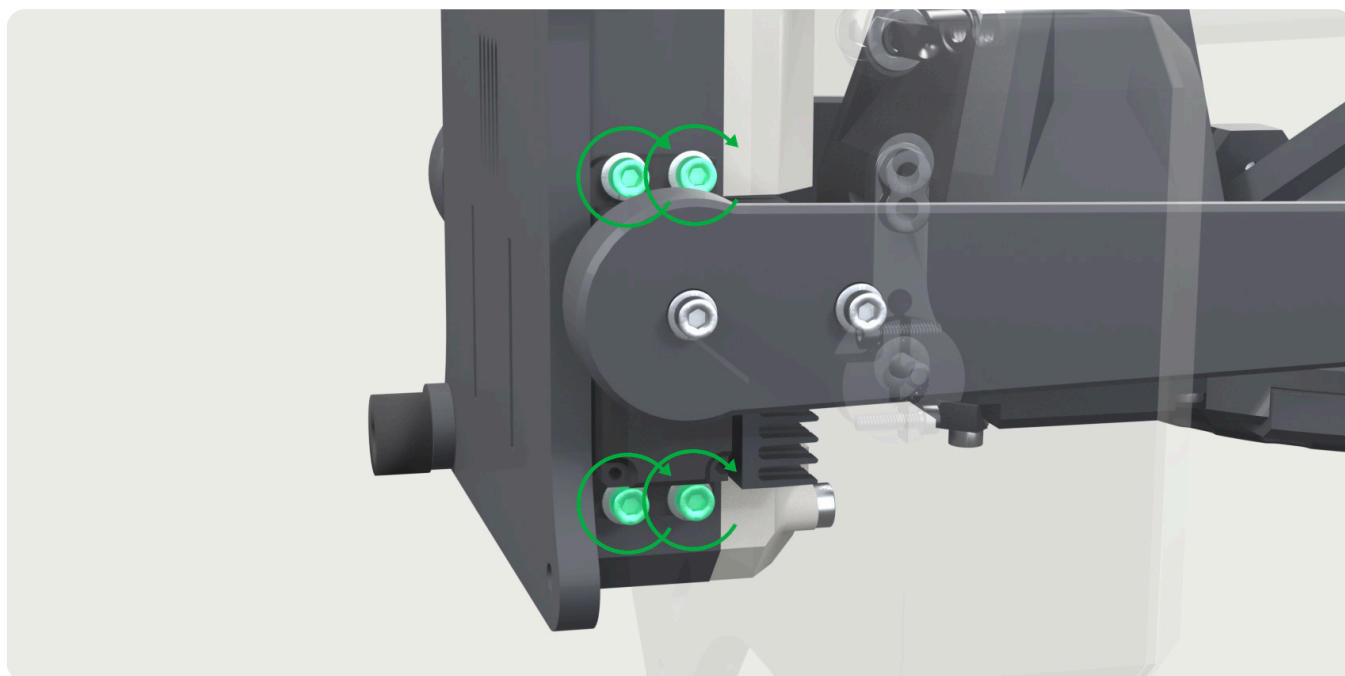


Swing it out

You need the back open for the left side and the pitch.

4 Tighten the 4 bolts on the left motor

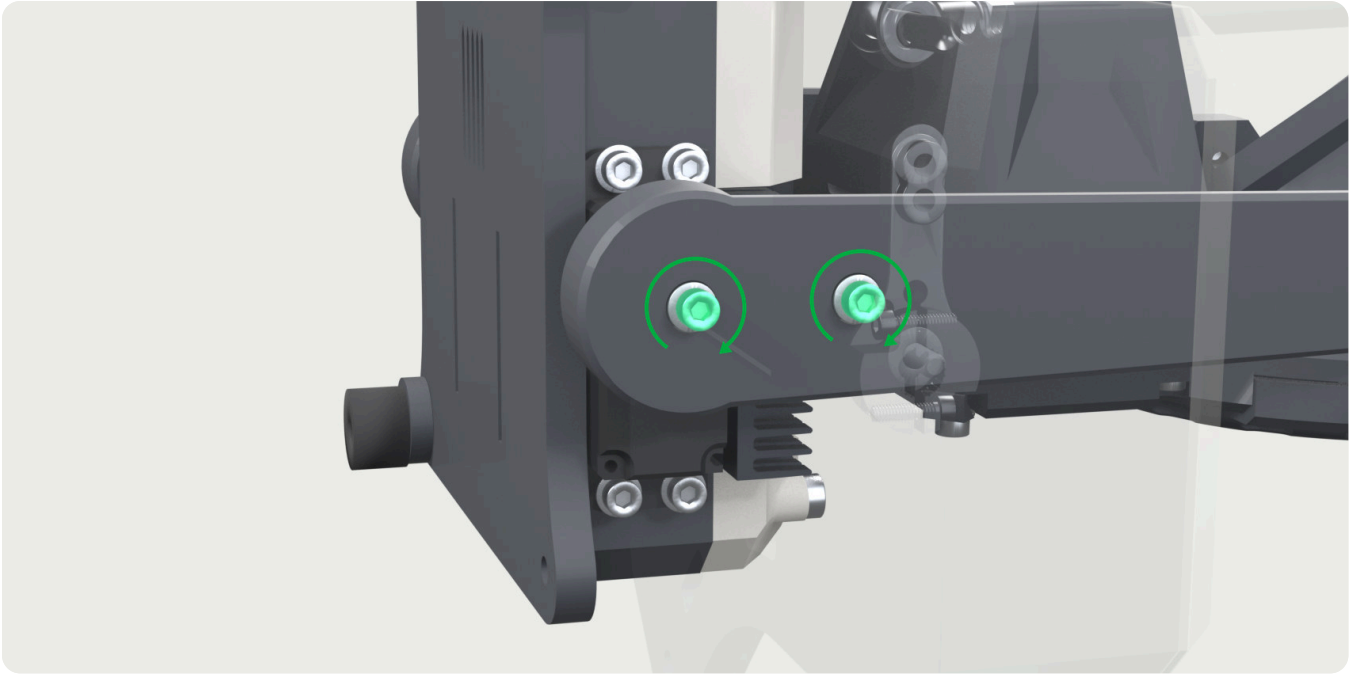
4× M3×16



⚠ Snug, then a little tight. Don't overdo it.

5 Tighten the left bearing arm screws a bit

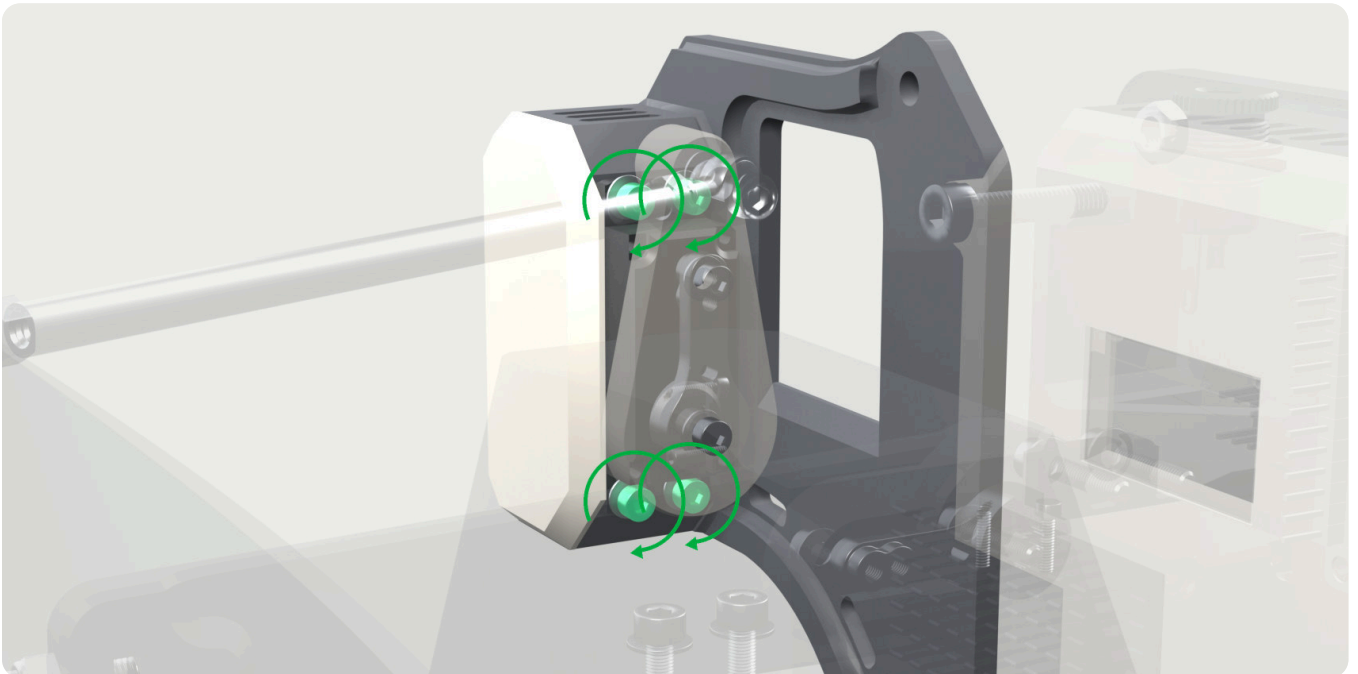
2× M3



⚠ Snug, then a little tight. Don't overdo it.

6 Tighten the pitch motor bolts

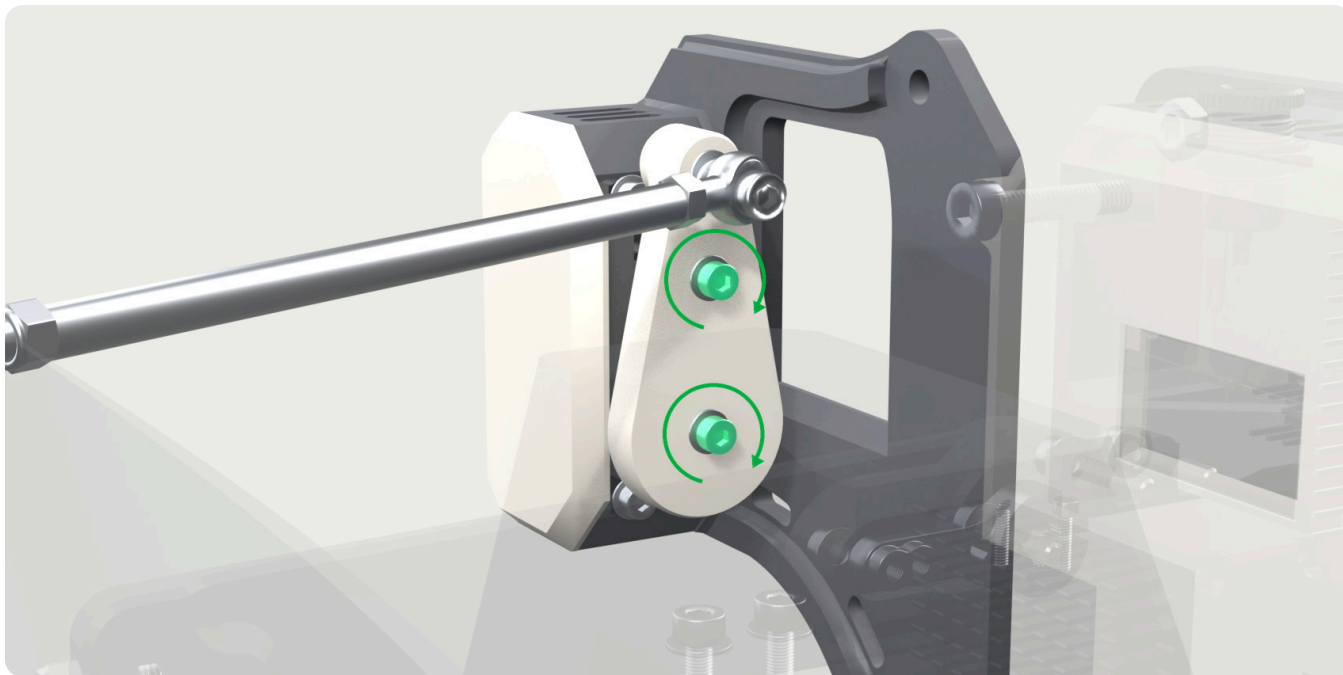
4× M3×16



⚠ Snug, then a little tight. Don't overdo it.

7 Tighten the 2 pitch arm screws

2× M3

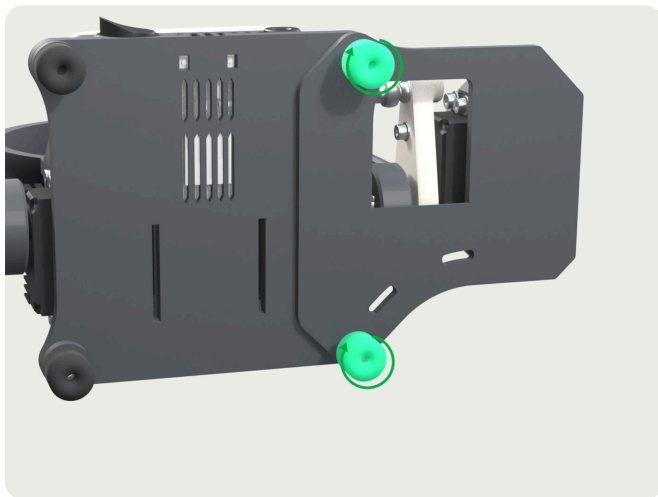


⚠ Snug, then a little tight. Don't overdo it.

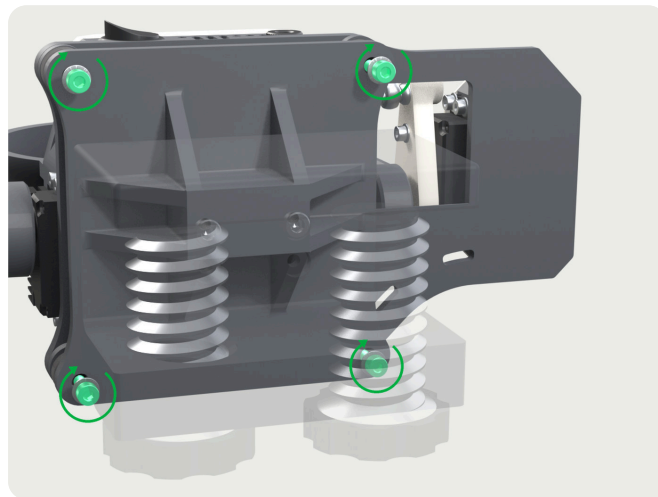
8 Pitch and desk mount back on

2× M4 rubber mounts

4× M4×12



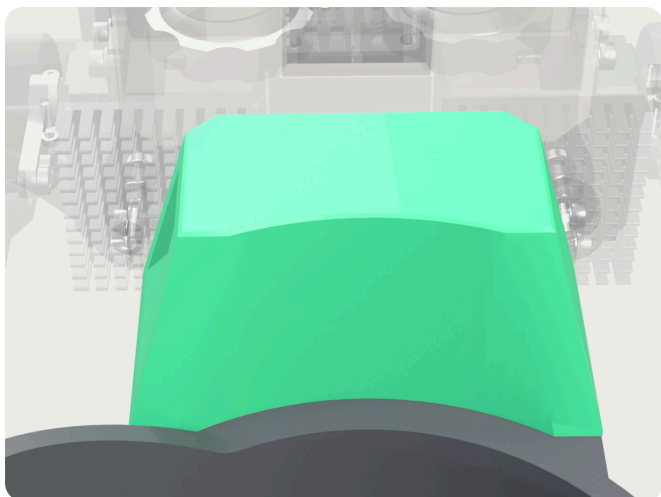
Pitch back in, the 2 rubber mounts



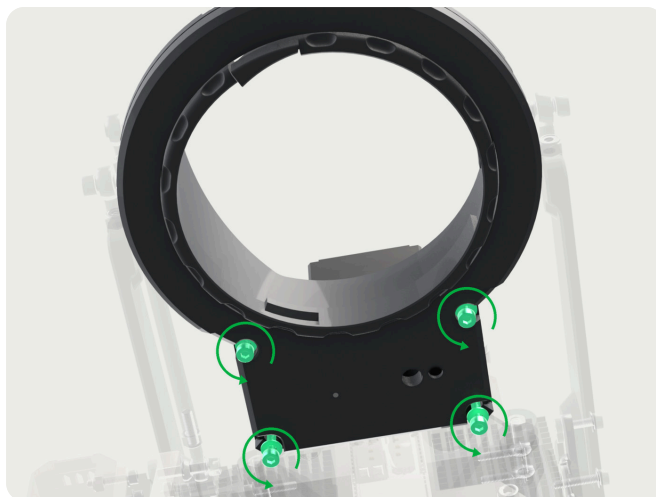
Desk mount, the 4 bolts

9 Pop the twist lid, then the bottom door

4× M3



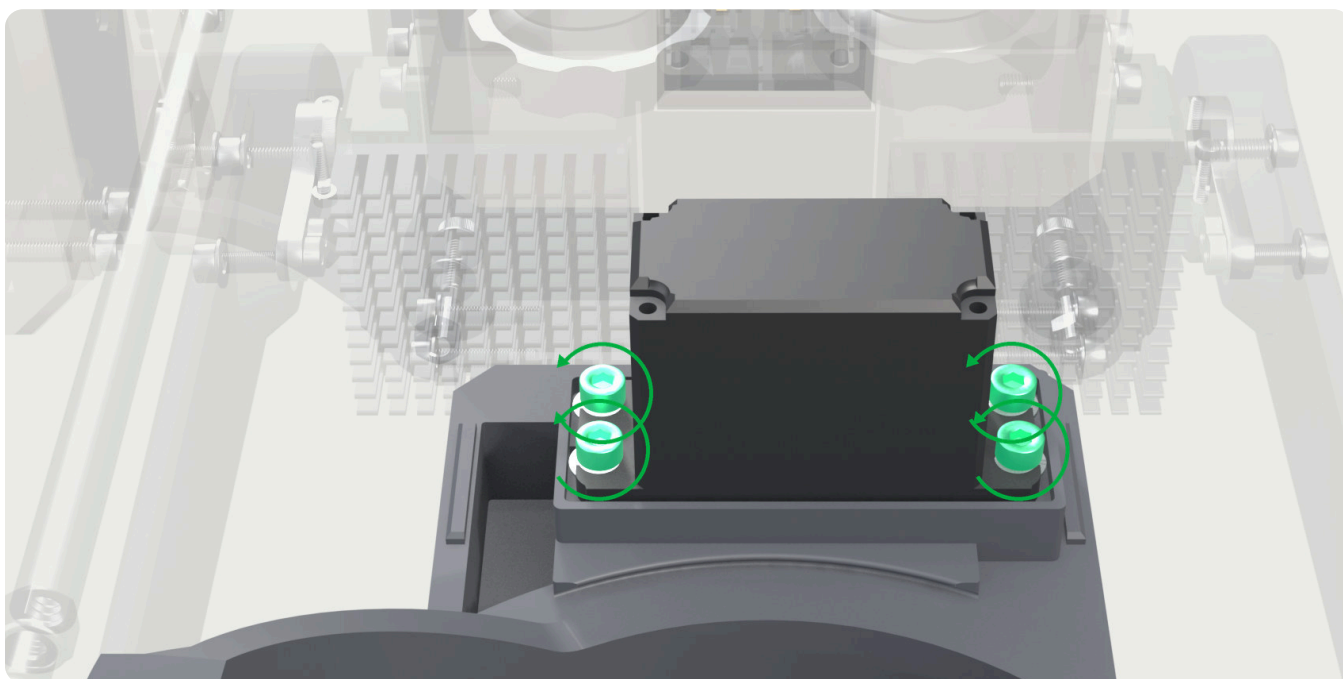
Twist lid



Bottom door, 4 screws

10 Loosen the twist motor's 4 bolts

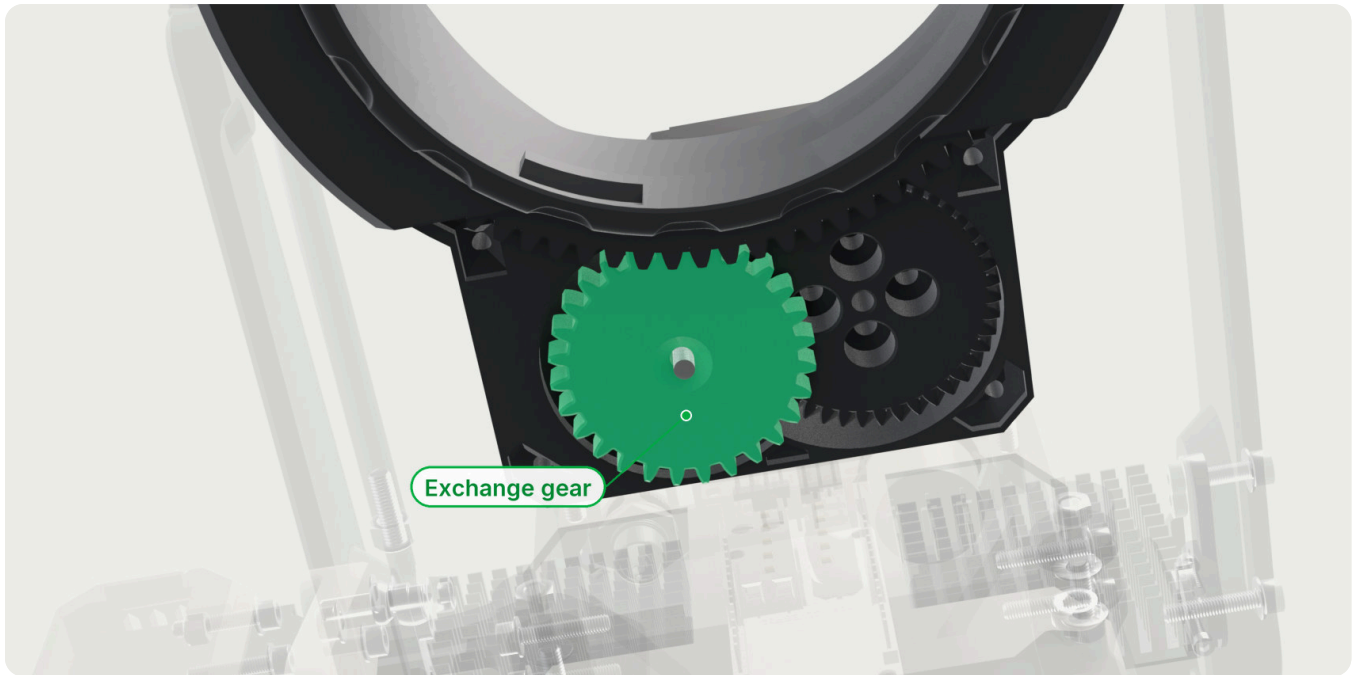
4× M3



Just loosen a little so it can wiggle.

11

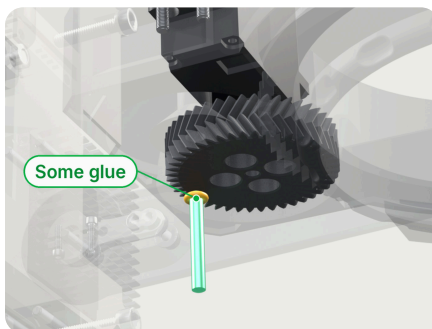
Wiggle the exchange gear
and see if it has a lot of play



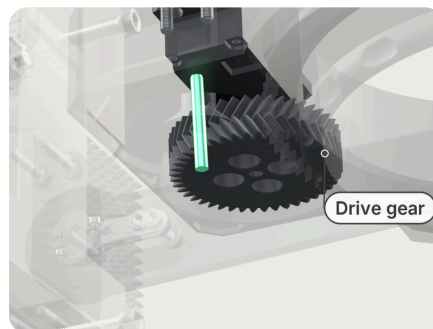
If not, leave it.

12

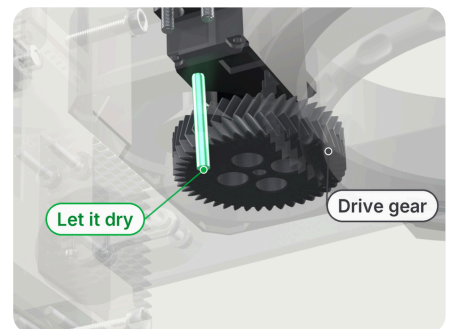
If so, it's time to glue it



Dowel pin out, some glue



Straight, or slightly tilted toward the drive
gear



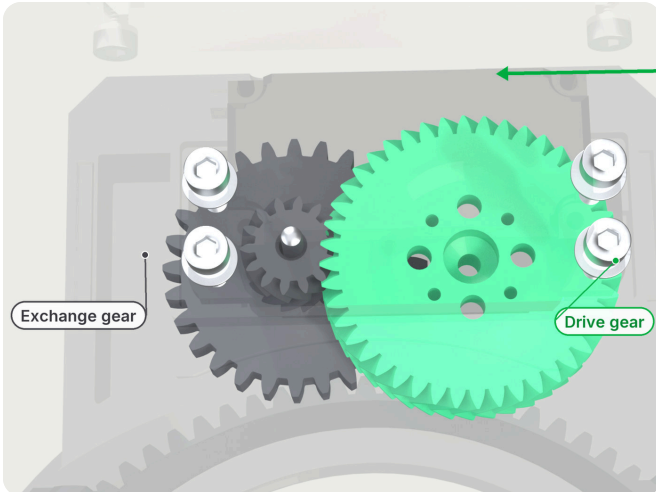
Let it dry

Take the dowel pin out, apply some glue, and set it straight or slightly tilted toward the drive gear.
Let it dry, this is important. Then the exchange gear back on.

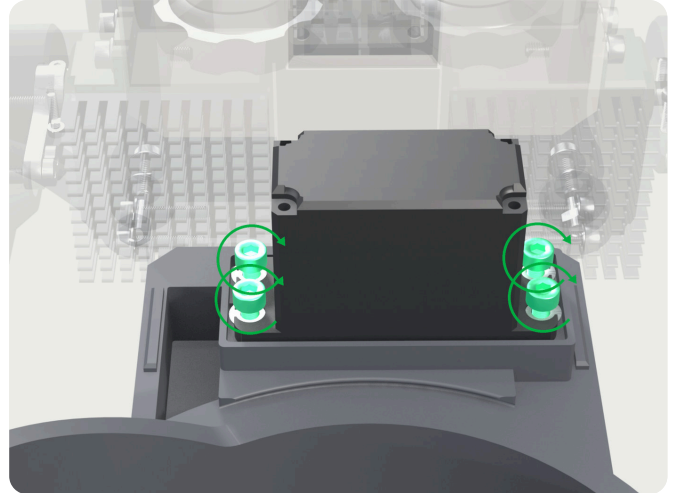
13

Gently wedge the drive gear into the exchange gear so it meshes tight, then tighten the 4 bolts

4× M3



Drive gear into the exchange gear



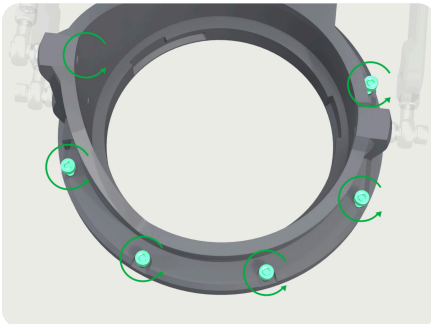
Tighten the 4 bolts

⚠ Snug, then a little tight. Don't overdo it.

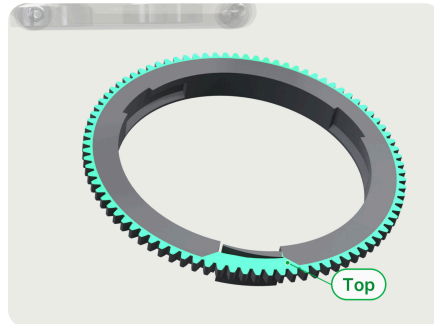
14

Lubricate the Fleshlight twist gear, top and bottom surfaces

6× M3



The 6 screws on the top



Top



Bottom

Open the 6 screws on the top so it can come out.

15

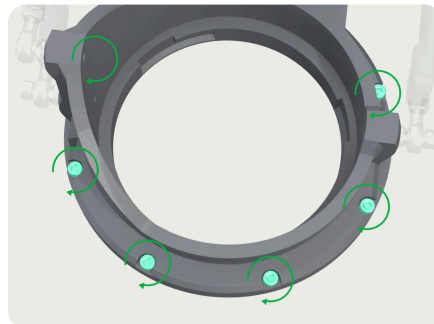
Attach it all up again

6× M3

4× M3



Ring and loop back up



The 6 on the top



Door and its 4, then the twist lid

Job done.