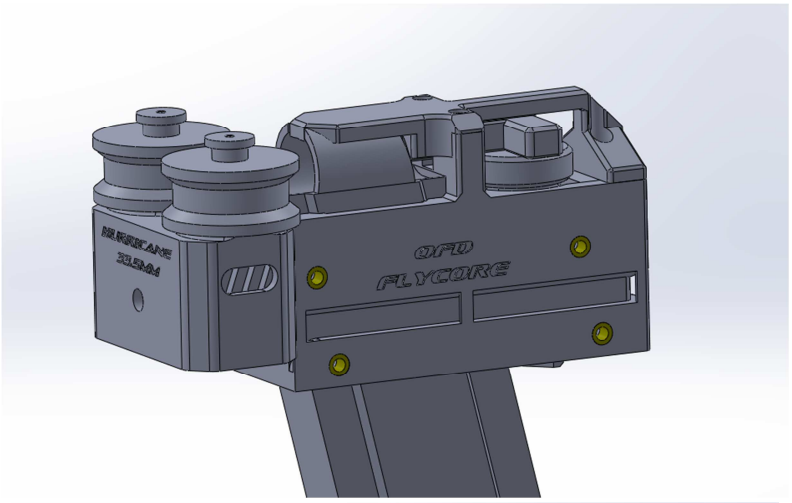
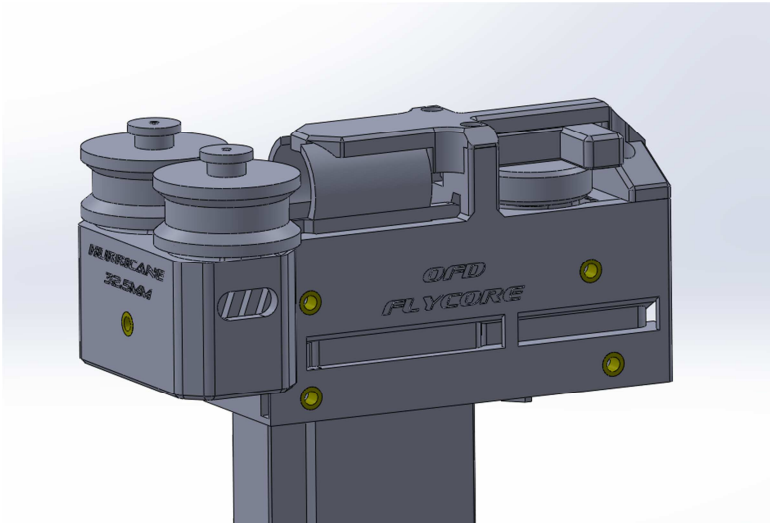
OFD
FLYCORE





WHAT IS FLYCORE?

- Flycore is a 90% complete blaster awaiting your new shell, design, or integration! I've done all the work on flywheel spacing, pusher mechanisms, and even a complete magwell with detent or release!
- The goal of Flycore is to allow designers new and old to focus on creating exciting new designs with a proven flywheel core that's simple to build and has compact geometry to integrate

DETAILS

- Compatible with ANY Flywheel (From FTW to Banned Blasters)
- Angled Flycore compatible with BOTH Angled and Slim Angled Talons (Nightingale mags) with the same mag release/detent
- Straight Flycore compatible with Talons and Tachi magazines
- Takes N20 Pushers (ROF from 300rpm/5dps up to 3000rpm/50dps) (Recommended 2000rpm and under for best performance)
- Rear pusher position switch for controllable rate of fire (wiring similar to 3 switch rapidstrike)
- Compatible with any 130 profile motor (can fit 132, 180s)
- Experimental topload capability
- Full steps provided to create your own new and exciting blasters!

LICENSING AND PRODUCTION

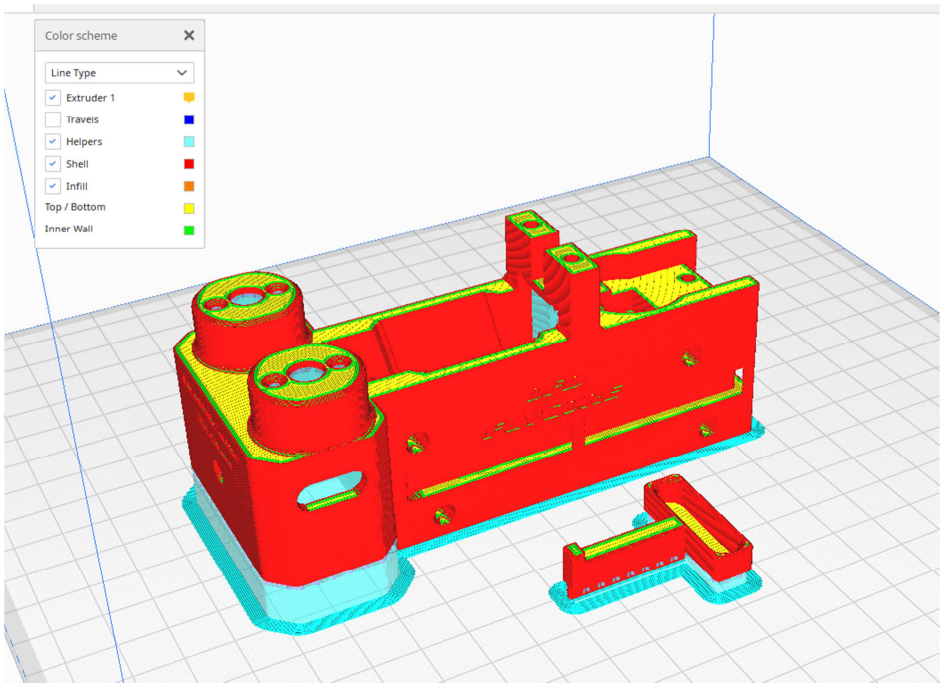
- Flycore is licensed under CC-BY-SA-NC: https://creativecommons.org/licenses/by-nc-sa/2.0/
- You have permission to print as many as you like for yourself, and remix the files in any way you like with attribution, but you CANNOT sell files or prints without my permission or coming to an agreement.

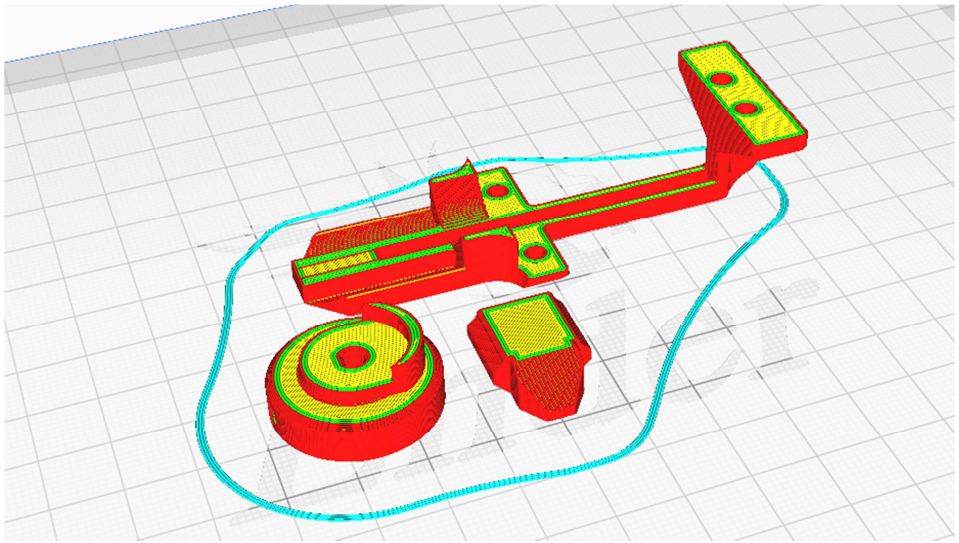
HARDWARE LIST

(2) 130 motors
(1) N20 Pusher Motor of your choice! (300-3000rpm)
(4) m2x5mm motor screws
(8-9) M3 x 5mm diameter x 6mm deep heat set inserts (longer ones may not work)
(6) M2.6x12mm toy screws
(1) M2.6x10mm toy screw (Optional)
(1) Cherry DB2 style switch for pusher position (Optional)
(1) Spring 20mm in length less than 7mm in diameter for mag release (Recommend McMaster 9657K297 Trimmed to ~20-22mm)

PRINT ORIENTATION

- Supported Pieces (from buildplate): Core, Pusher
- Recommended Print settings (ALL): at least 3 perimeters, 15% infill, PETG Core if you're using motors that get hot. Brim optional.

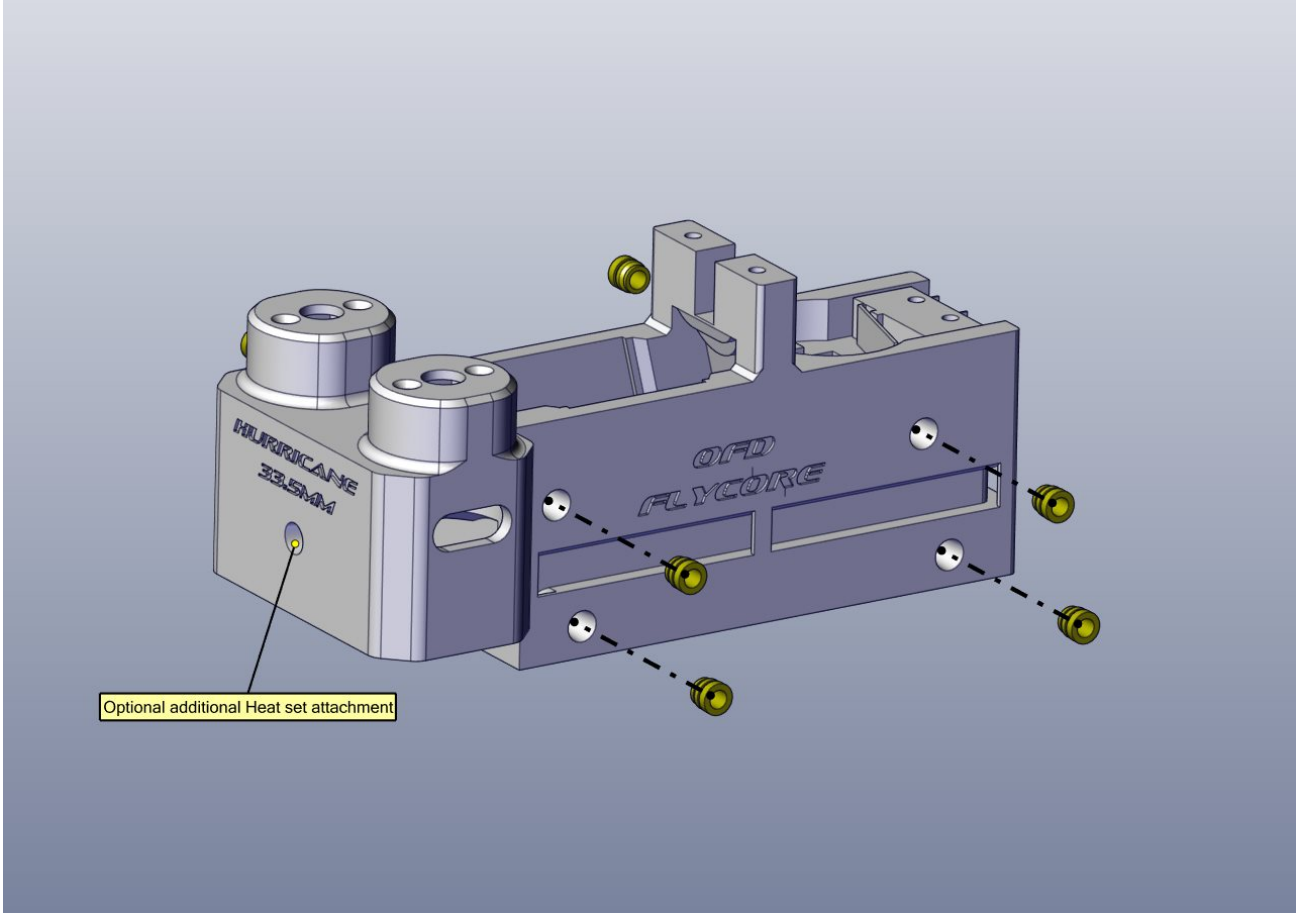




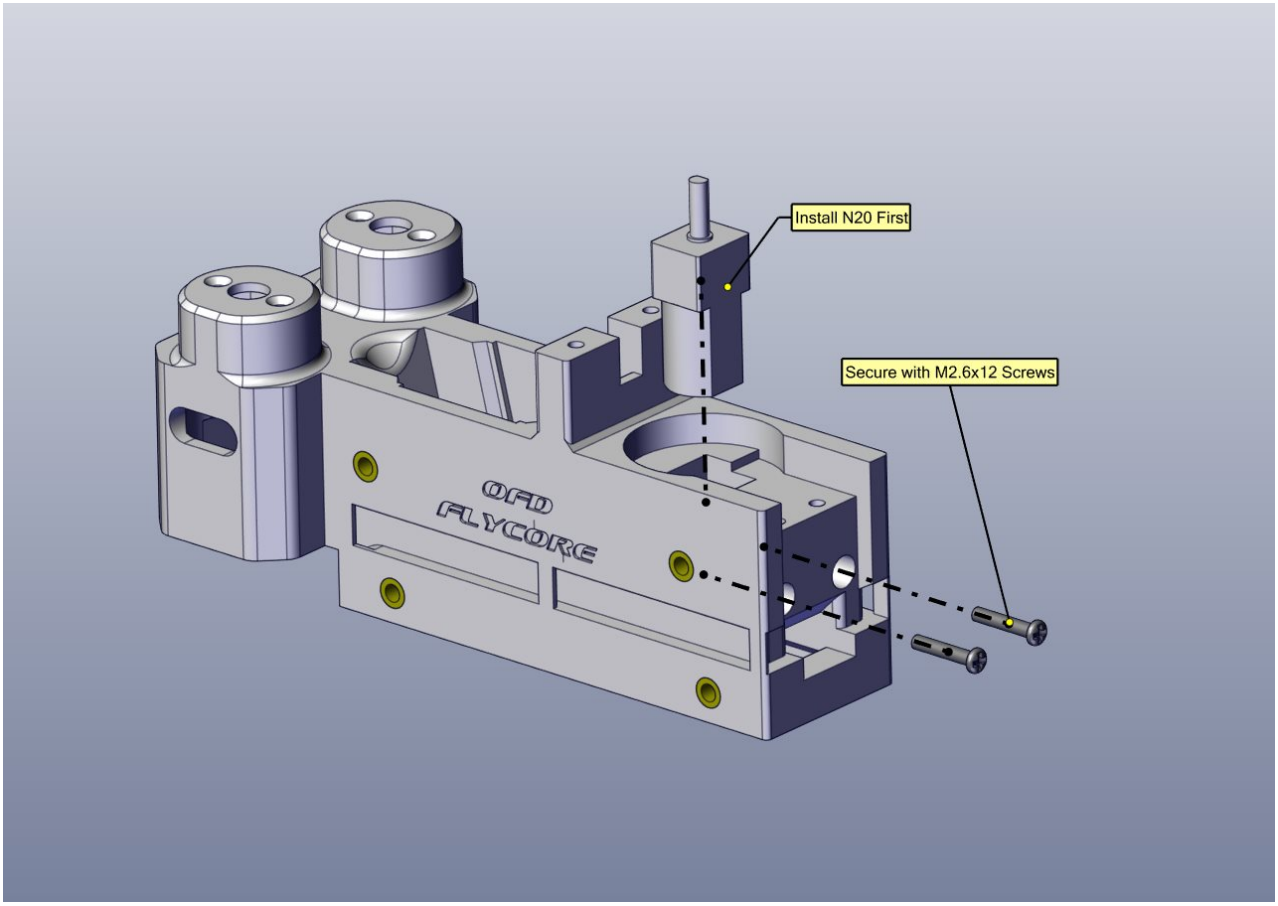
ASSEMBLY

Step 1: Install heatsets

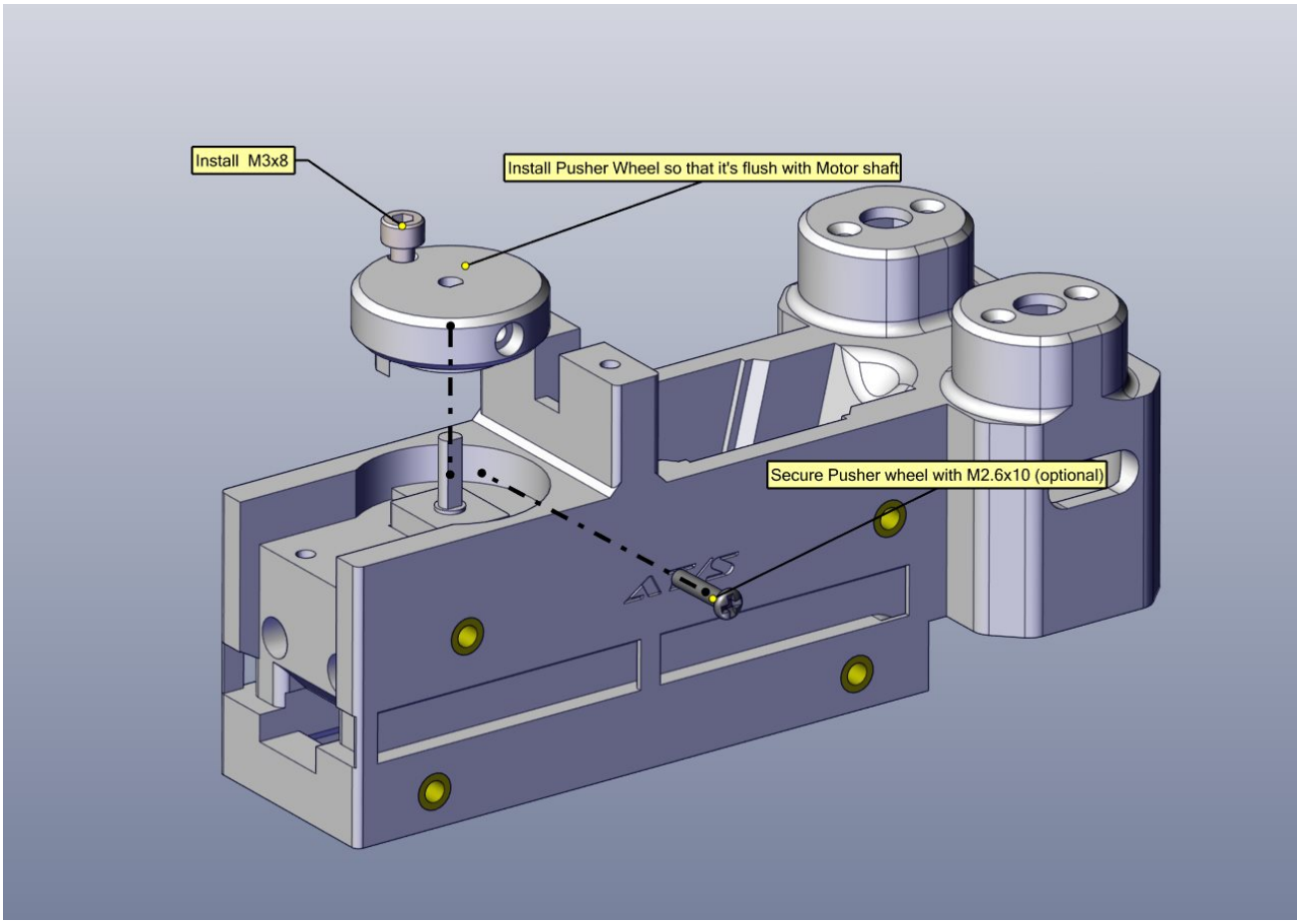
TIP: Trim off any flashing inside and outside the core to prevent installation issues



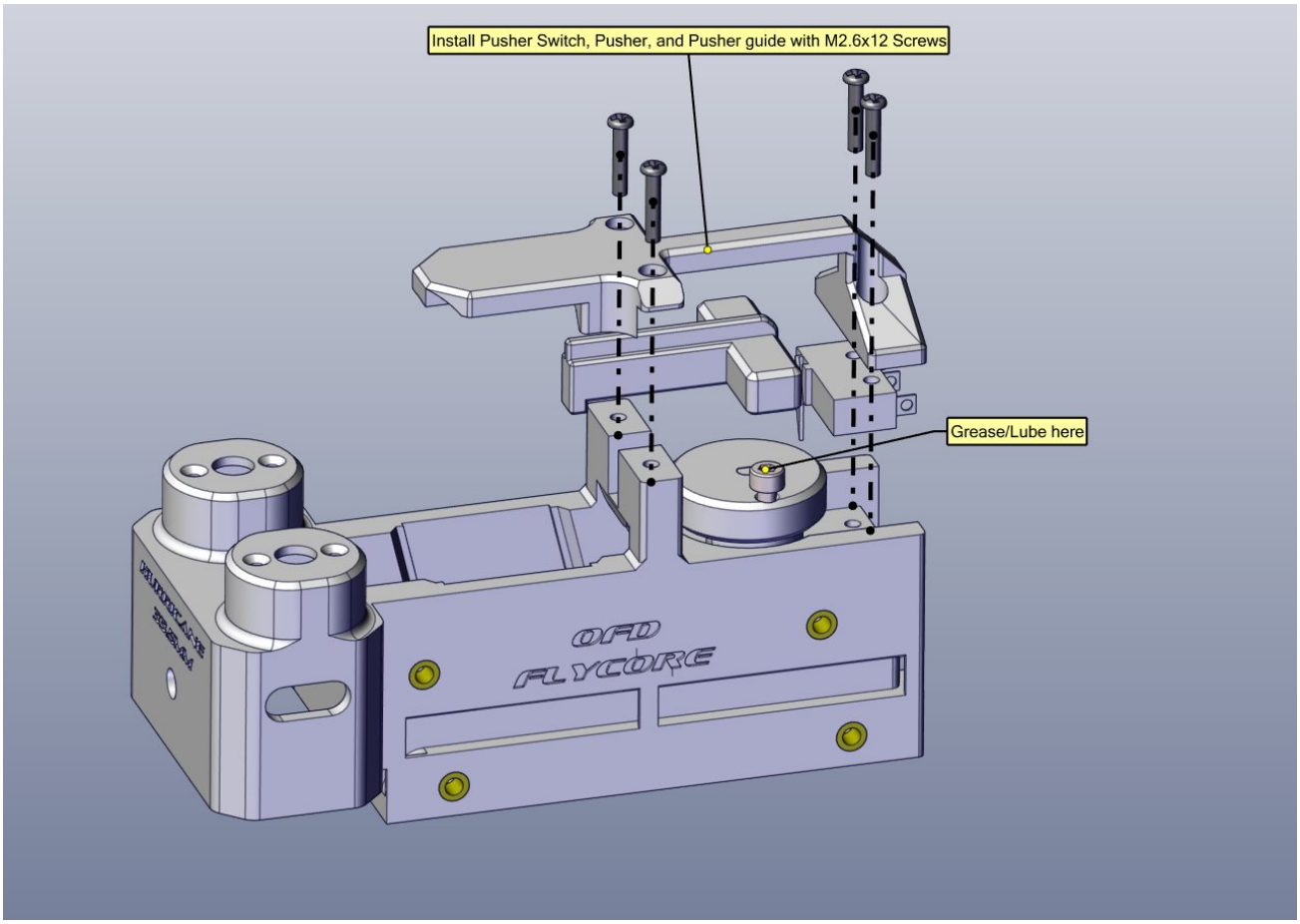
Step 2: Install N20



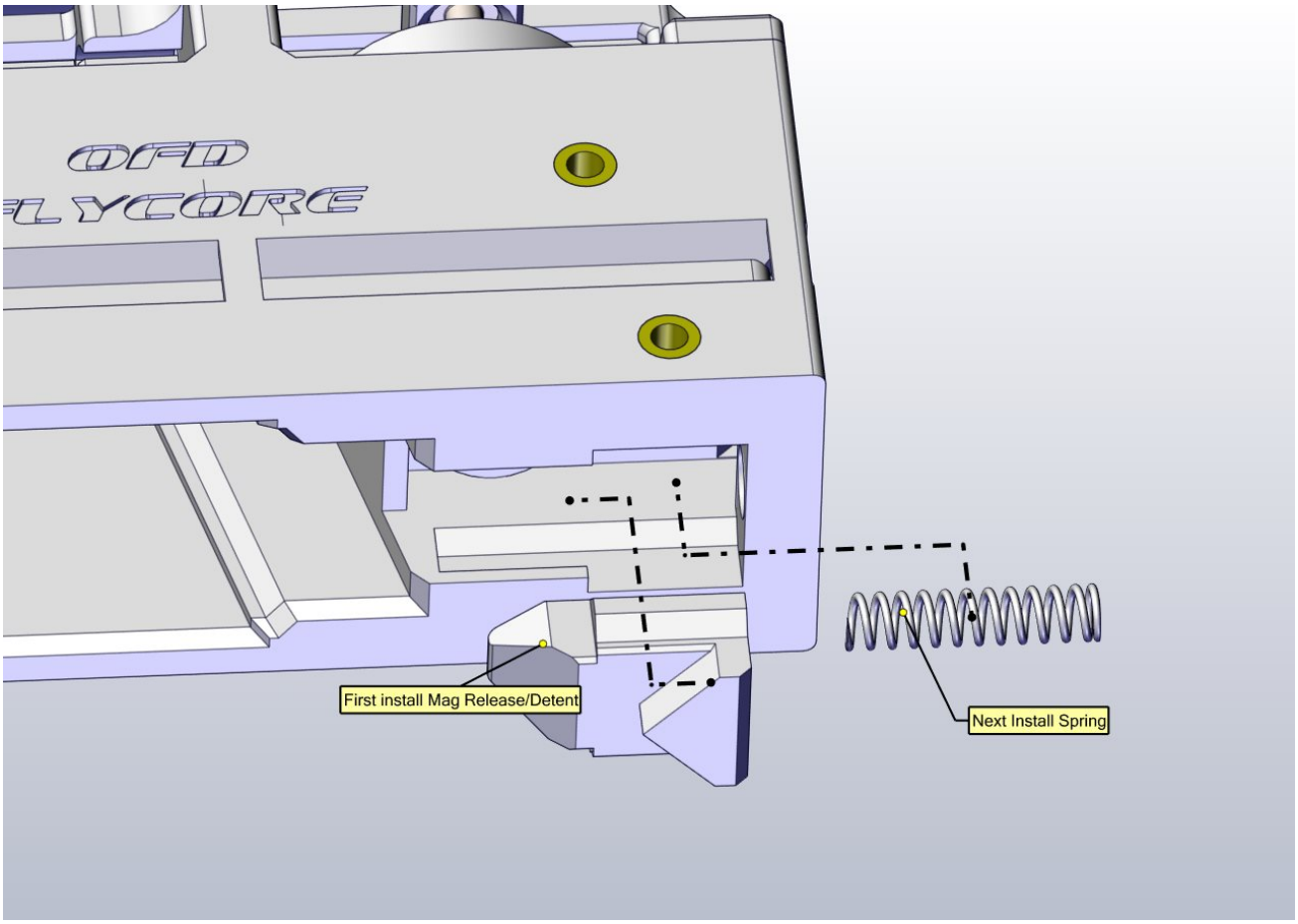
Step 3: Install Pusher Wheel



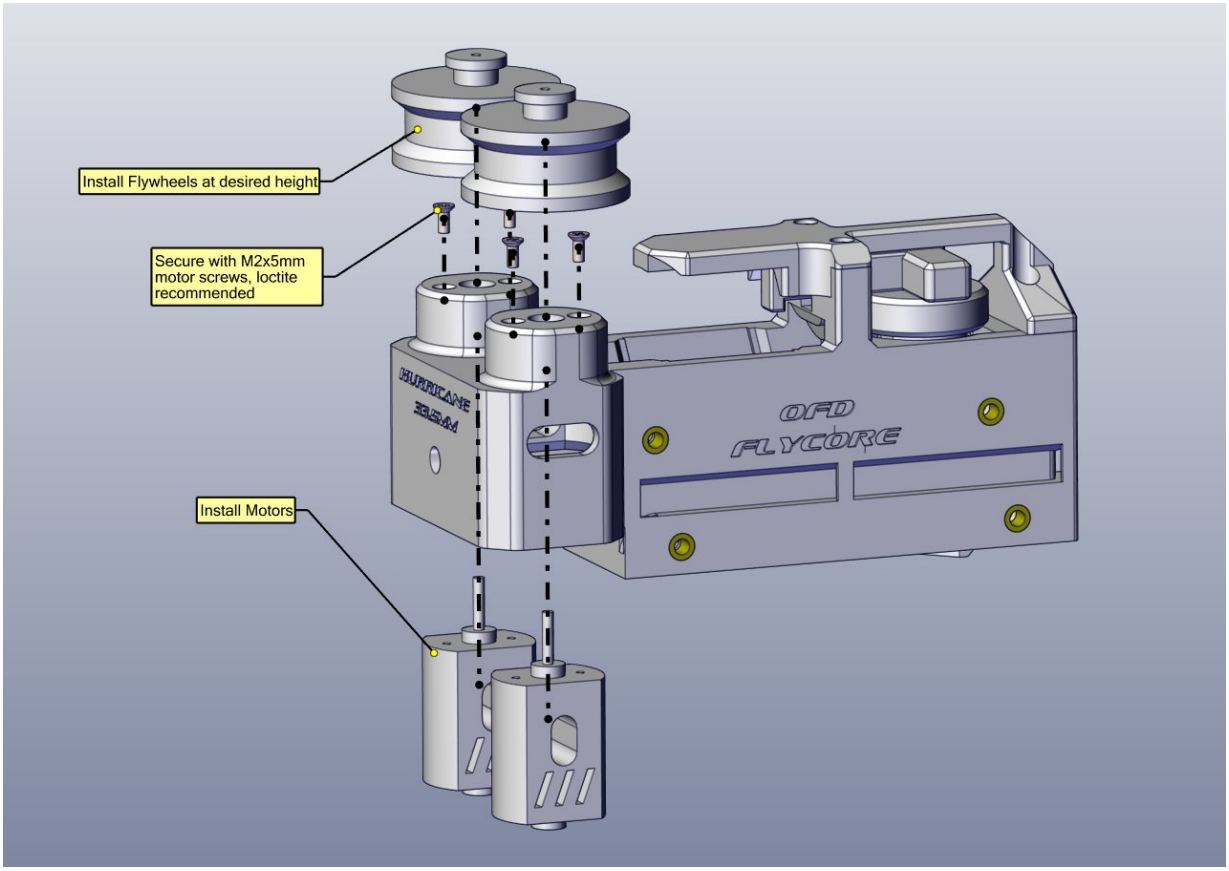
Step 4: Pusher Assembly Installation



Step 5: Mag Release Installation



Step 6: Motor and Flywheel Installation



FAQ

- My N20 doesn't seem like it's activating the pusher switch!
  a) If this is the case, bend the N20 switch arm slightly outward until it activates the switch when the pusher is fully back
- My 2000 or 3000 rpm pusher is running away, or won't brake when I release the trigger!
  a) In my testing these motors don't have enough torque to overcome their own inertia and brake within a cycle, so if you want to run this high ROF, I'd recommend not worrying about including a pusher switch.
- My slim angled talons aren't feeding right!
  a) In our testing, slim angled talons can be picky about darts and magazine cleanliness, especially at higher rates of fire, so YMMV!
- I have more questions, or my questions aren't listed here!
  a) No worries! Feel free to reach out to me on Etsy, or my discord: ag04#6231