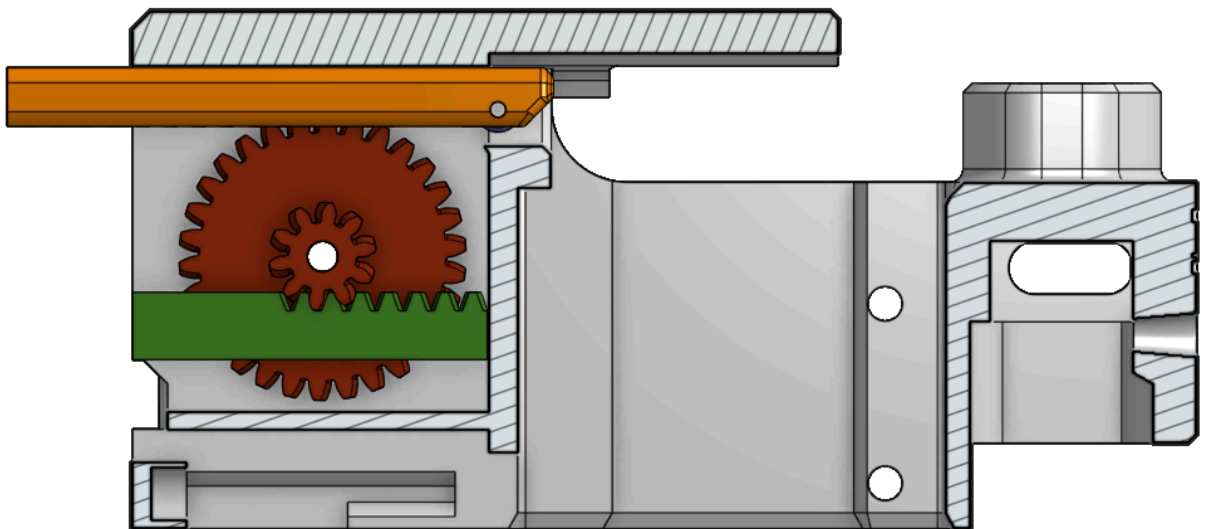


GEARCORE

A manual geared pusher flycore variant.

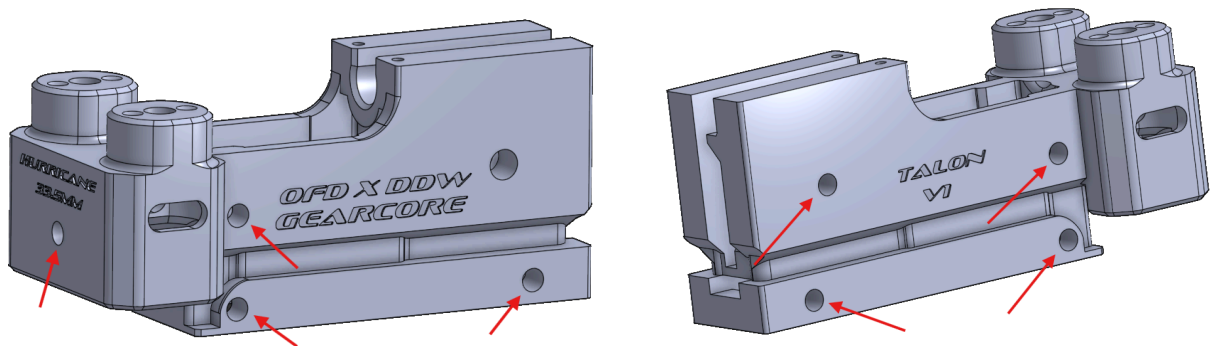


Required Hardware/Electronics:

- 8 m3 x 5mmOD x 4-6mmL heat set inserts
- 7 M3 x 8mm screws
- 1 m3x20mm screw
- 2 toy screws (m2.6 x ~10mm)
- 4 motor screws (m2 x 5mm)
- 1 mag release spring (I use 5mm x 0.5mm x 25mm)

Step 1: Heat sets

The Gearcore takes 8 heat sets (see below). NOTE: The rear upper heat sets normal to Flycore are removed from Gearcore. There is one spot for a heat set in the upper rear of the right side of the Gearcore; this is for the m3x20mm screw that acts as the axle for the gear.



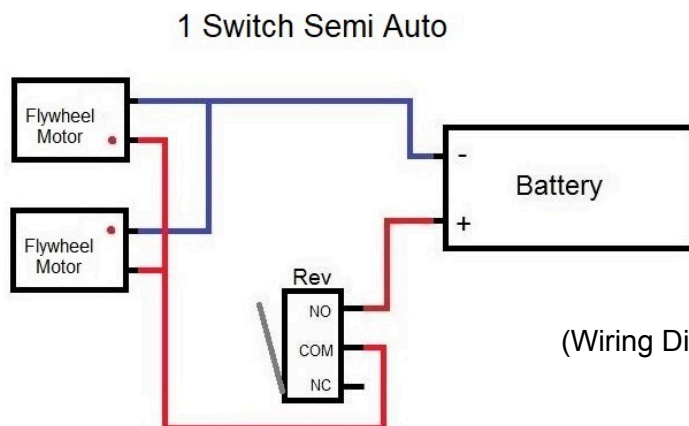
Step 2: Install the Gear

Insert the gear into the rear of the Gearcore. The smaller side should be to the right side of the core. Align the axle hole of the gear with the hole in the core and secure it with the m3 x 20mm screw. Do not overtighten; the gear should spin freely.

Step 3: Wire the core

Gearcore uses a simple 1 switch circuit (like the typical Stryfe wiring diagram). I recommend running both positive and negative along the same side of the core. Secure the motors with motor screws (m2 x 5mm).

NOTE: Gearcore forgoes the wire channel guides in favor of being able to remove the motors without desoldering. I secure the wires into the channel with a piece of tape.



(Wiring Diagram courtesy of Captain Xavier)

Step 3: Install Flywheels & Mag Release

Use whichever flywheels and whichever mag release fit your build.

Step 4: Prep Pusher

Insert the roller into the slot in the Pusher and use a bit of 1.75mm filament as a pin. Cut the filament flush with the pusher arm.

Step 5: Insert Trigger

This step may vary from blaster to blaster, but the trigger needs to be fully inserted into the core before the pusher can be installed. The trigger rack inserts to the right of the big gear, underneath the smaller section of gear.

Note: On the Bahamut, the trigger is installed in the blaster first and then the core is slid into position so that the trigger rack inserts itself.

Step 6: Install Pusher & Dart Guide

Once the trigger has been inserted, the easiest way to install the pusher is to drop it into place from the top and then secure the pusher guide on top of it with the 2 toy screws.

The Pusher can also be fed in through the front after the pusher guide is installed, but this is a trial and error process to align the gears and racks properly.

Step 7: Continue Blaster Assembly

Step 8: ???

Step 9: Profit