Brushless Flycore
Wiring Setup

Bill of Materials

0.96" OLED - https://www.amazon.com/gp/product/B09C5K91H7/

Rotary (chose one)
20mm Encorder: https://www.amazon.com/gp/product/B07DM2YMT4/
15mm Encoder: https://www.amazon.com/dp/B07D3D64X7/

Trigger Switch: https://www.amazon.com/gp/product/B00MFRMFS6/

47UF Capacitor (if using the Mjolnir Board PCB):
https://www.amazon.com/gp/product/B0BQ59XWNR/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&th=1

Currently used motors: iFlight Xing2 1404 4600KV
https://www.racedayquads.com/products/iflight-xing2-1404-4600kv-micro-motor

ESC: any blheli32 ESCs (ones I use:
https://www.racedayquads.com/products/spedix-gs35-35a-individual-esc-2-6s-dshot1200?variant=4258743123979)

Arduino Nano3
Neutron Solenoid
1 Mjolnir Board

Wire Lengths

Encoder Wires - 4x 8 inches 22g

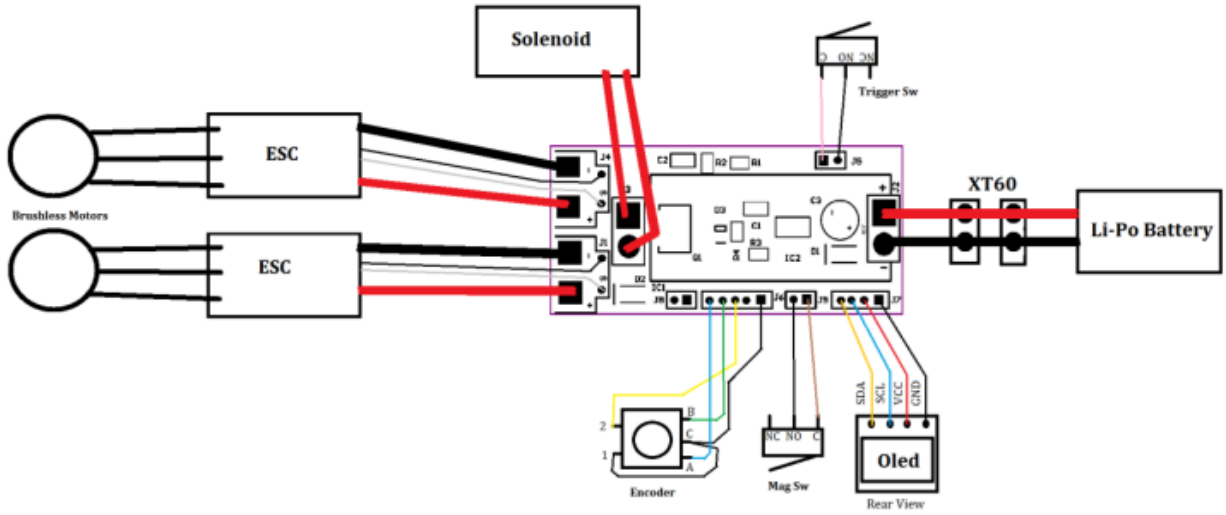
OLED Wires - 4x 8inches 22g

Trigger Switch - 2x 12inch 22g

Power (Pistol Mode) - 17in x2

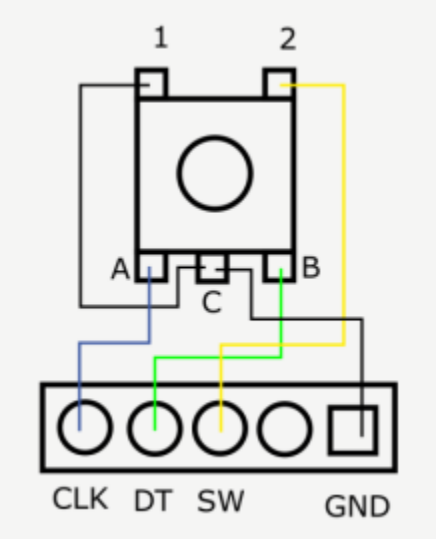
Overview

Mjolnir PCB Setup



Arduino is mounted with 15-pin break aways on PCB
Trigger, Encoder, ESC Signal and 0.96” OLED utilizes JST-XH 2.56mm connectors with 22g wire
Solenoid, Power and ESC Power uses XT-30 connectors with 20g wire

KY-22 Rotary (without PCB) Encoder Diagram

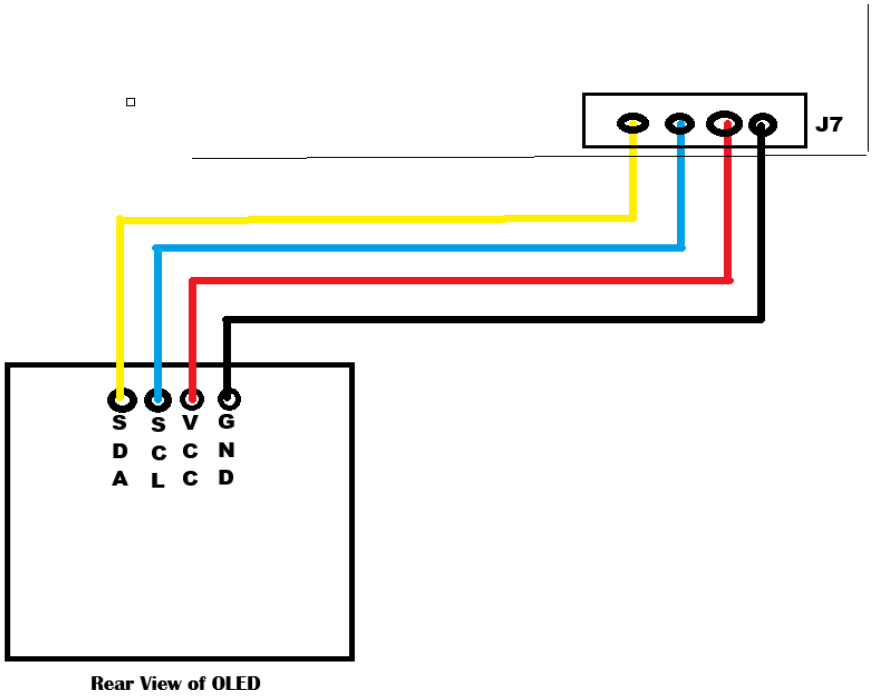


Encoder facing front

Ground Wire Connects to Tabs 1 and C
SW Wire connects to **Tab 2**
DT Wire connects to **Tab B**
CLK Wire connects to **Tab A**

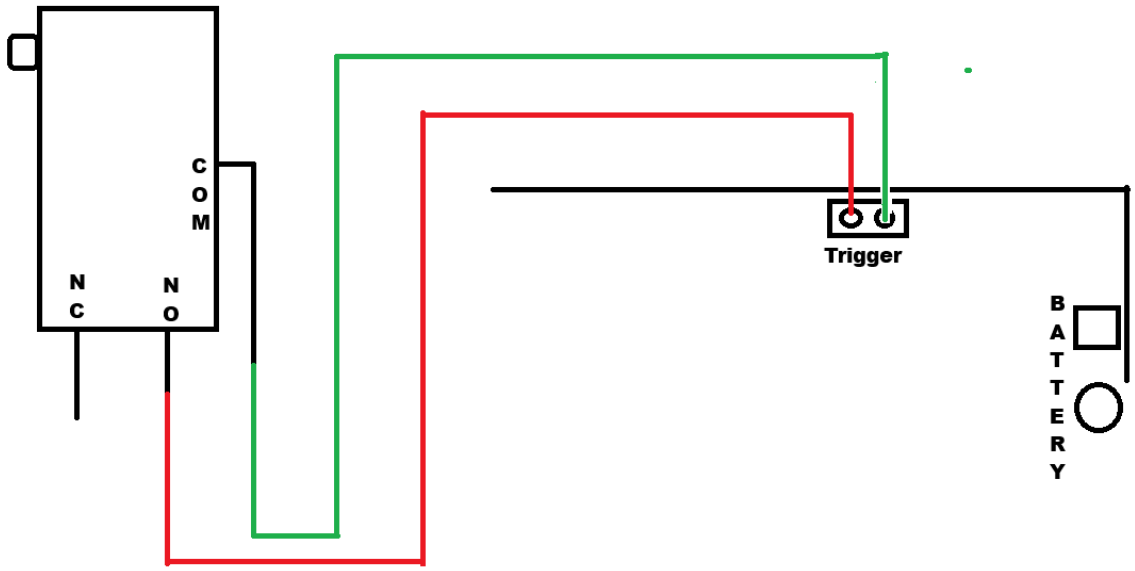
O.96” OLED Screen

Wires from OLED screen connects to sections J7 (4 pin) of PCB. This Is the only 4-Pin JST Connector on the PCB.



Rear View of OLED

Trigger



Wire from the NO (Normally Open) and Comm to the 2-pin Trigger port.