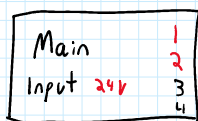




Drill Battery
Input

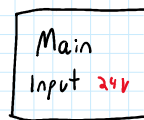
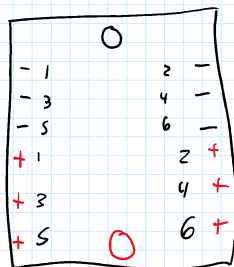


Frw ← Srb



Fuse Box

Relay 1
Relay 2
Relay 2
Relay 1

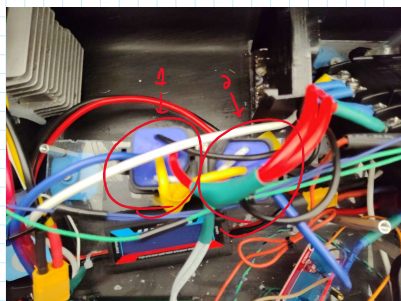


<https://www.bluesea.com/products/5005-AT-Blade-Fuse-Block-6>

Feature	Value
Circuits	6
Maximum Amperage	100A per block 20A per circuit
Maximum Voltage	120V AC
Mounting	#6 Screw (M4)
Negative Bus	#10-32 Stud
Positive Bus	#10-32 Stud
Recommended Torque	24 in-lb (2.71 N-m)
Screw Terminal Torque	18 in-lb (2.03 Nm)
Screw Terminal Type	#6-32 Screws with captive star lock washer
Weight	0.55lb (0.25 kg)

_Circuits_with_Negative_Bus_and_Cover

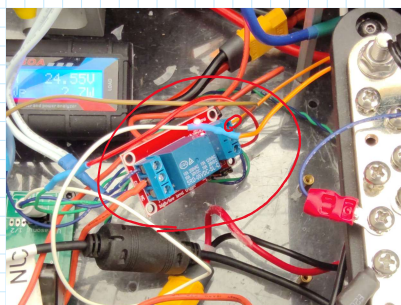
Circuit 1 2 3 go to Relays



- Relay 1
- Ground In (Gnd 3)
 - Power In (24V) PWR3
 - Power Out (24V)
 - Ground Out (Open)
 - Switch Power (Relay Module)

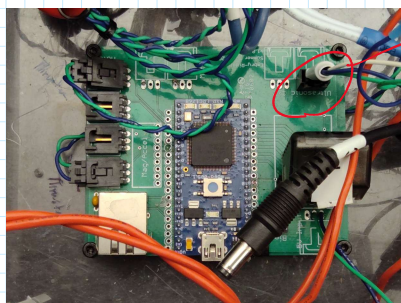


- Relay 2
- Ground In (Gnd 5)
 - Power In (24V) PWR 2
 - Power Out (24V)
 - Ground Out (Open)
 - Switch Power (Relay Module)

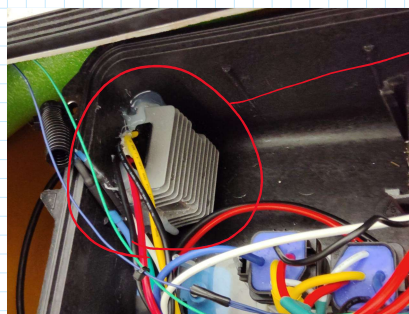


Relay Module

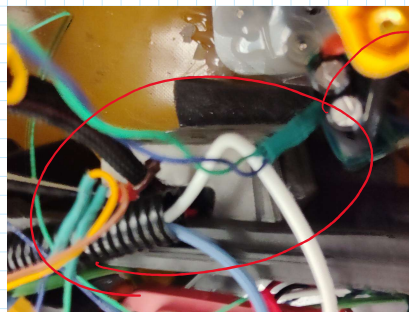
Brown wire Switch Signal
Recieves some signal
from Low Level Processor



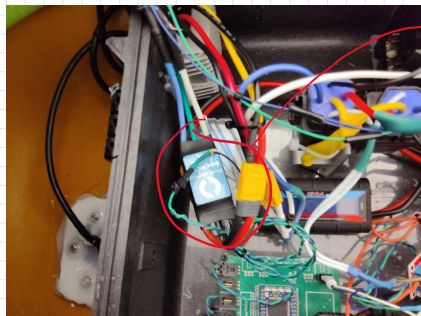
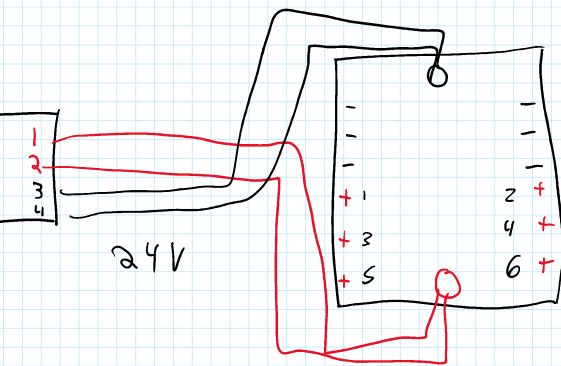
Goes to Relay Module





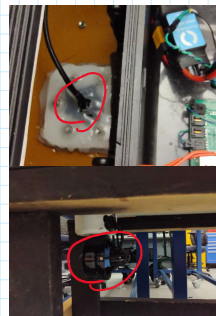
- Voltage Converter
24V → 25V
Unnesecary?
ESC is a regulator
- Ground In - From
 - Power In - From Relay 4
 - Power Out - To Fwd ESC
 - Ground Out - To Fwd ESC



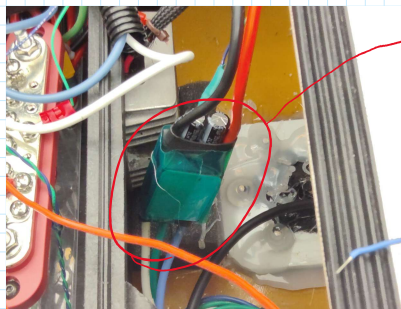
- Voltage Converter
24V → 25V
Unnesecary?
ESC is a regulator
- Ground In - From
 - Power In - From Relay 2
 - Power Out - To Aft ESC
 - Ground Out - To Aft ESC



Fwd ESC
TS00 Basic
ESC
Uses PWM Signal
 → 3 phase
 • Ground In
 • Power In
 PWM - Signal & Ref Ground



Fwd Potting
Use a Penetrator
<https://hobbyelectronics.com/forums/connections/connectors/penetrator-why-not/>
 Proper Pin Through Solution
 T200 Thruster
 Why running off of a
TS00 ESC



Aft ESC
TS00 Basic
ESC
Uses PWM Signal
 → 3 phase
 • Ground In
 • Power In
 PWM - Signal & Ref Ground