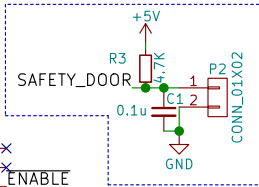


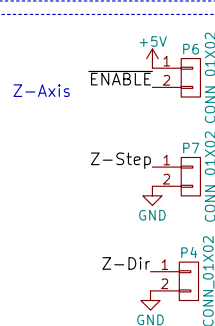
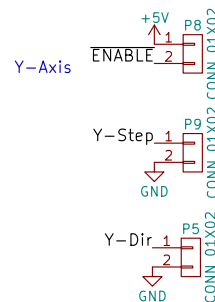
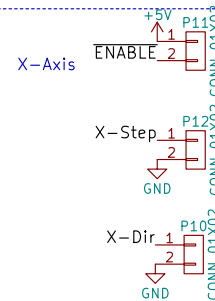
To Do:

- 1) separate logic and motor grounds?
- 2) more limit switches?
- 3) E-stop??
- 4) Verify motor voltage is +12V (sizing of LED resistor)
- 5) Reset button on RST pin?

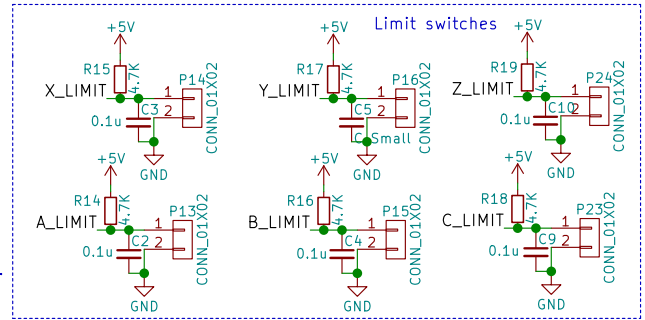
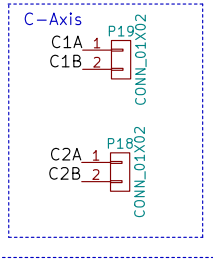
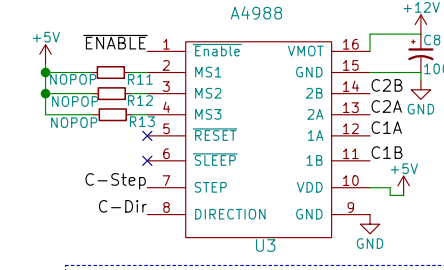
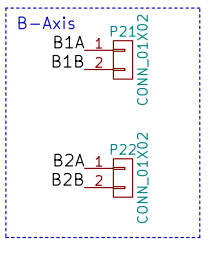
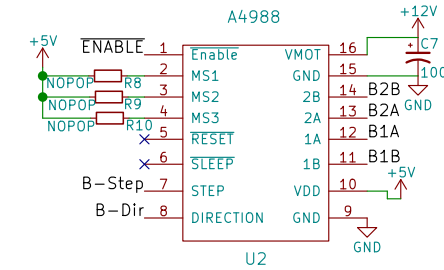
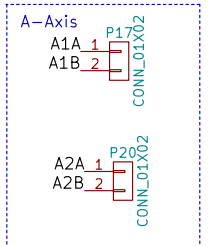
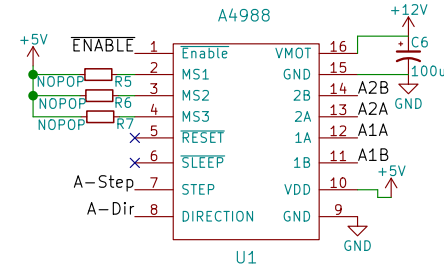


Consider Copal S-1011A rotary dip switch for MS1-MS3

Connections to the X/Y/Z Large Stepper Controllers

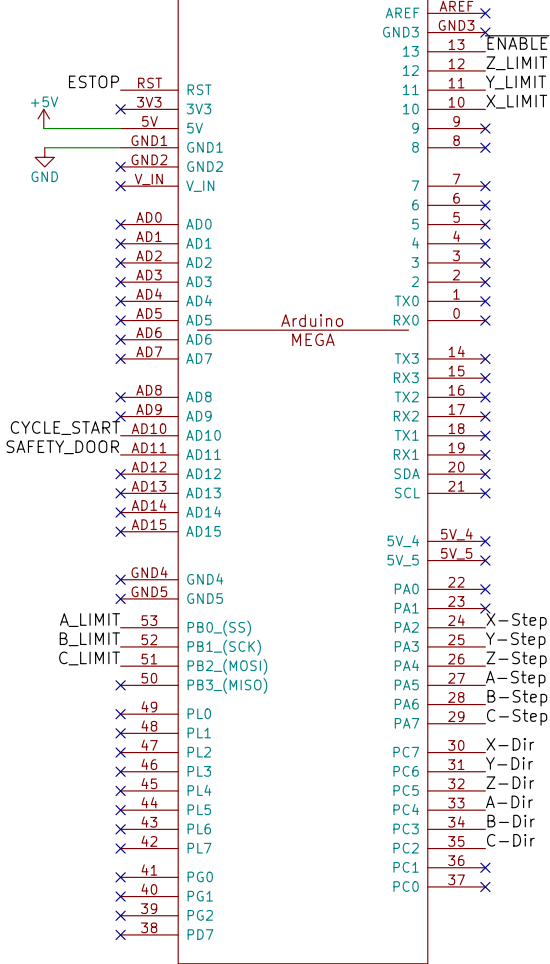


Note: Populate MS1, MS2, and MS3 NOPOP resistors as required achieve the desired microstepping. Sense resistors are 0.1R.



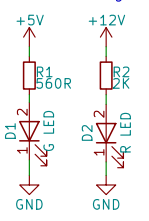
Note: Limit switches must be on a single bank, Bank B. That includes digital pins 50-53 and 10-13. NOPOPs permit additional pullups for noise resistance.

SHIELD1

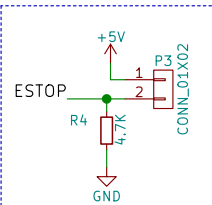
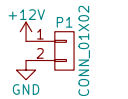


ARDUINO_MEGA_SHIELD

Indicator Lights



Motor Power Connection



Sheet: /		File: ArduinoMegaShield.sch	
Title: Arduino Mega Control Shield for Killer Robot Arm			
Size: A	Date: 2017-07-21	Rev: 0	
KiCad E.D.A. kicad 4.0.5		Id: 1/1	