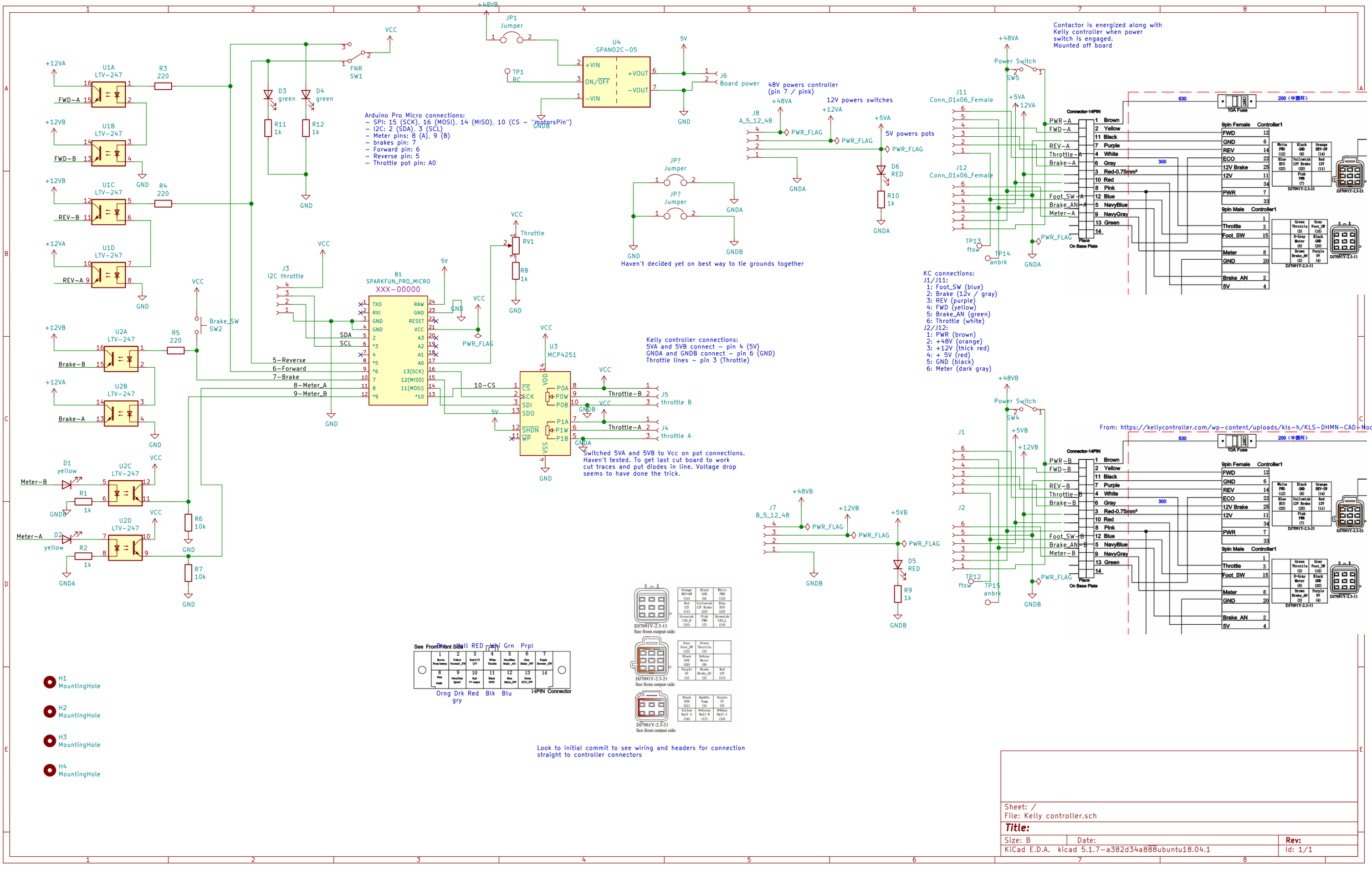
Arduino Pro Micro connections:
– SPI: 15 (SCK), 16 (MOSI), 14 (MISO), 10 (CS – "motorsPin")
– I2C: 2 (SDA), 3 (SCL)
– Meter pins: 8 (A), 9 (B)
– brakes pin: 7
– Forward pin: 6
– Reverse pin: 5
– Throttle pot pin: A0
48V powers controller (pin 7 / pink)
12V powers switches
5V powers pots
Haven't decided yet on best way to tie grounds together
Kelly controller connections:
5VA and 5VB connect – pin 4 (5V)
GNDA and GNDB connect – pin 6 (GND)
Throttle lines – pin 3 (Throttle)
Switched 5VA and 5VB to Vcc on pot connections. Haven't tested. To get last cut board to work cut traces and put diodes in line. Voltage drop seems to have done the trick.
Look to initial commit to see wiring and headers for connection straight to controller connectors
Contactor is energized along with Kelly controller when power switch is engaged. Mounted off board
KC connections:
J1/J11:
1: Foot_SW (blue)
2: Brake (12v / gray)
3: REV (purple)
4: FWD (yellow)
5: Brake_AN (green)
6: Throttle (white)
J2/J12:
1: PWR (brown)
2: +48V (orange)
3: +12V (thick red)
4: + 5V (red)
5: GND (black)
6: Meter (dark gray)
From: https://kellycontroller.com/wp-content/uploads/kls-h/KLS-DHMN-CAD-Model-113
Sheet: /
File: Kelly controller.sch
Title:
Size: B
Date:
Rev:
KiCad E.D.A. kicad 5.1.7-a382d34a888ubuntu18.04.1
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