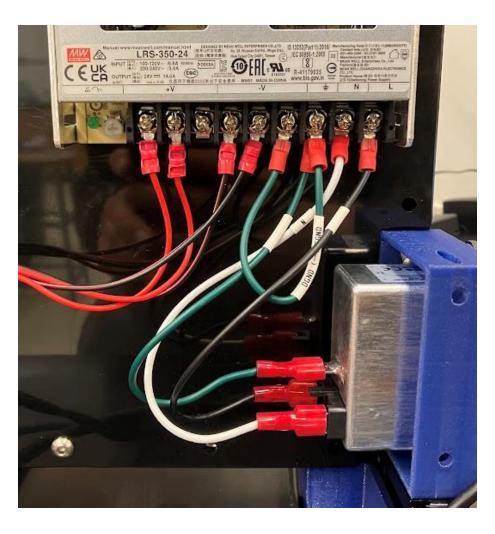
Jubilee wiring for colormixing demo

Updated by Brenden Pelkie May 8, 2024

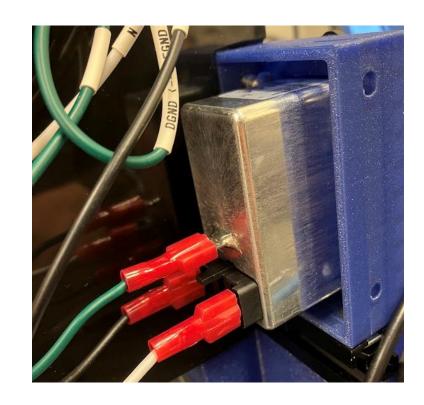
Notes

- This is a quick reference guide for wiring a Jubilee for our standard color mixing demo
- Assumes Duet in standalone mode, HTTP/web camera setup (separate from jubilee wiring) and an Opentrons pipette
- Goes with standard color mixing config
- Always check duet's sys/config.g file before plugging things in and make sure it aligns with where you plug stuff
- Never plug/unplug stepper motor connectors while the board is powered on

Power supply



- L: hot (black)
- N: neutral (white)
- Ground (¥ sorta symbol): ground (green)
- Connect ground to DC
 V- with a jumper
- V-, V+ go to Duets and other equipment
- If first time assembly, make sure fuse is installed in power cord socket (pictured on right)
- Match voltage switch on power supply side to local voltage



Duet 5 mini ethernet

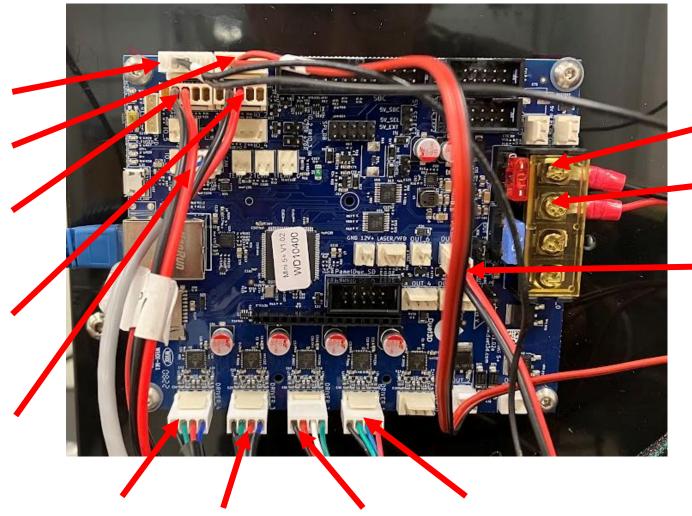
IO 1: U endstop

IO 0: Z endstop

IO 3: V (pipette internal endstop)

IO 2: V Pipette tip pickup endstop (external)

CAN: Can cable to expansion board



Vin 4: V- (black)

Vin 3: V+ (red)

Out 5: Camera ring

light

Driver 0.4: Z back motor

Driver 0.3: Z front right

Driver 0.2: Z front left

Driver 0.1: U (tool changer)

Duet 3 Expansion board 3HC

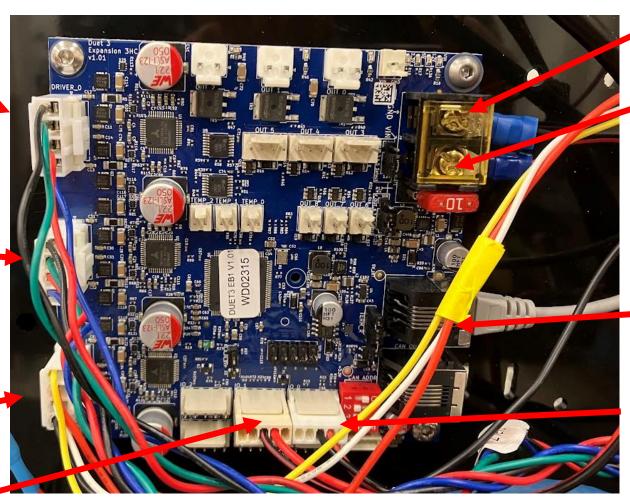
Driver 1.0: Right

XY Motor

Driver 1.1: Left XY Motor

Driver 1.2: Pipette motor

IO_1: Y endstop



Vin 2: V- (black)

Vin 1: V+ (red)

CAN IN: to Duet mainboard

IO_0: X endstop

CAN address: {1:1, 2:0, 3:0, 4:0}