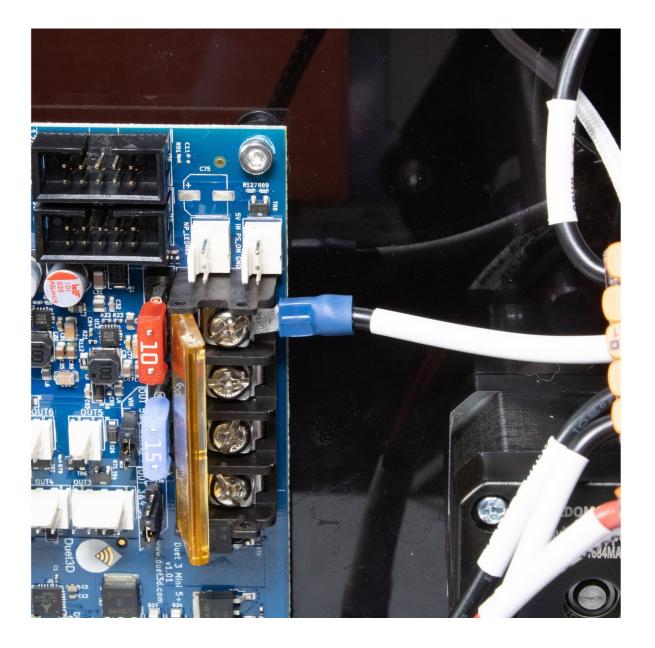
railcore Q) Wiring the Electronics

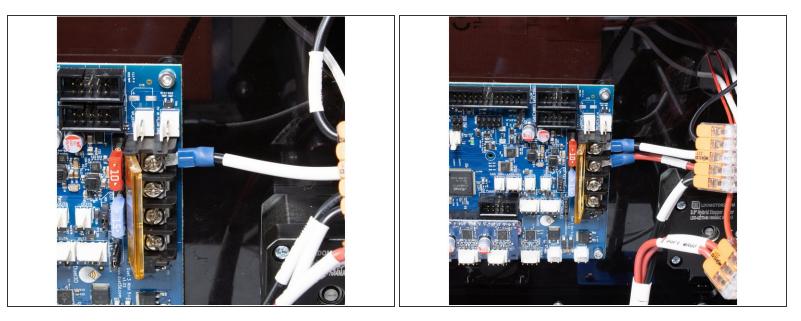
Written By: Ben Withem



PARTS:

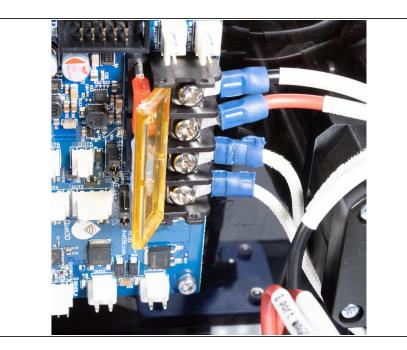
- Mini Printed IO Panel (1)
- M3 Nut (2)
- M3 x 10 Socket Head Screw (2)
- M3 Washer (2)

Step 1 — Power Duet



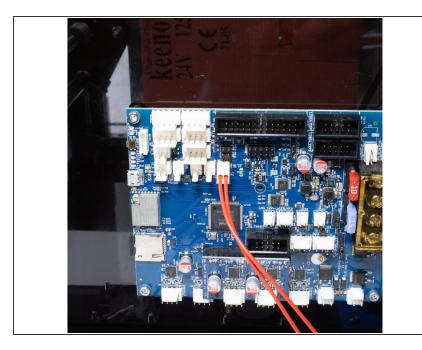
- The black wire labeled Duet GND from the 6 slot Wago connector attaches to the first GND on the Duet.
- The red wire labeled Duet 24v from the 3 slot Wago connector attaches to the first VIN terminal on the Duet.

Step 2 — Power Bed



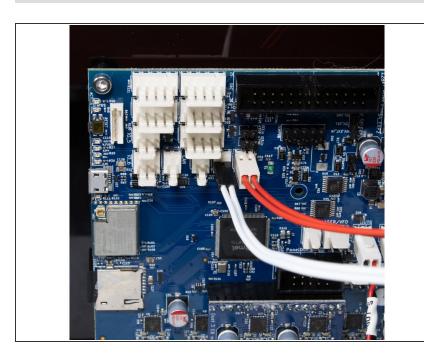
 The ring terminals coming from the bed should attach to the remaining terminals (OUT 0).

Step 3 — Bed Thermistor



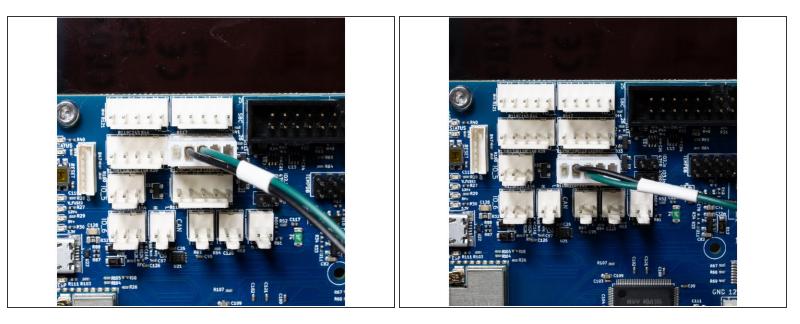
 The bed thermistor connects to Temp 0.

Step 4 — Hotend Thermistor



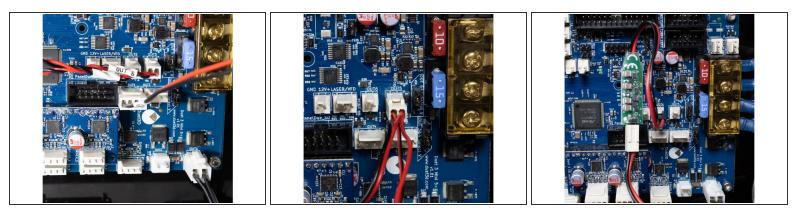
• The hotend thermistor plugs into temp1.

Step 5 — End Stops



- Wire the X endstop to io.2.
- Wire the Y endstop to io.4.

Step 6 — Fans



- Wire the layer fan to out4.
- Panel fans are wired to out5.
- Hotend fan is wired to out6.

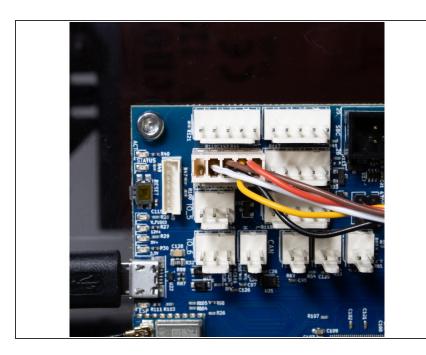
▲ If you are using the E3D Revo Micro, your hotend fan must use the included 24v -> 5v buck converter.

Step 7 — Hotend Heater



• The hotend heater is wired to out1.

Step 8 — BLTouch



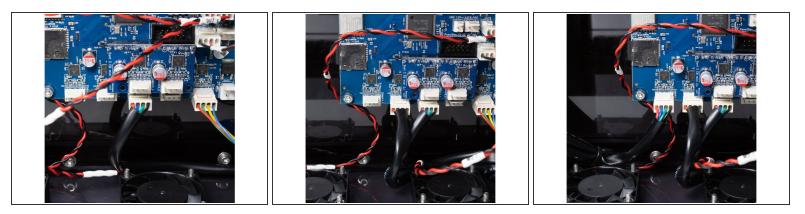
• The BLTouch is wired to io3.

Step 9 — Extruder



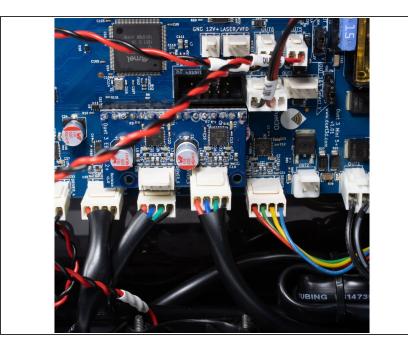
• The extruder is wired to Drive 0.

Step 10 — Z Axis



- Front right Z stepper is wired to Drive 2.
- Rear right Z stepper is wired to Drive 3.
- Left Z stepper is wired to Drive 4.

Step 11 — X/Y Axis



- X stepper (front) is wired to Drive 5 on the expansion board.
- Y stepper (rear) is wired to Drive 6 on the expansion board. This is the last free driver on the expansion board.

Step 12 — WiFi Antenna



- Using (2) M3 x 10 socket head screws, washers and nuts, attach the antenna and USB extender to the outside of the printer panels.
- Plug the USB extension and WiFi pigtails into the Duet.
- i https://duet3d.dozuki.com/Wiki/Gettin g_S...