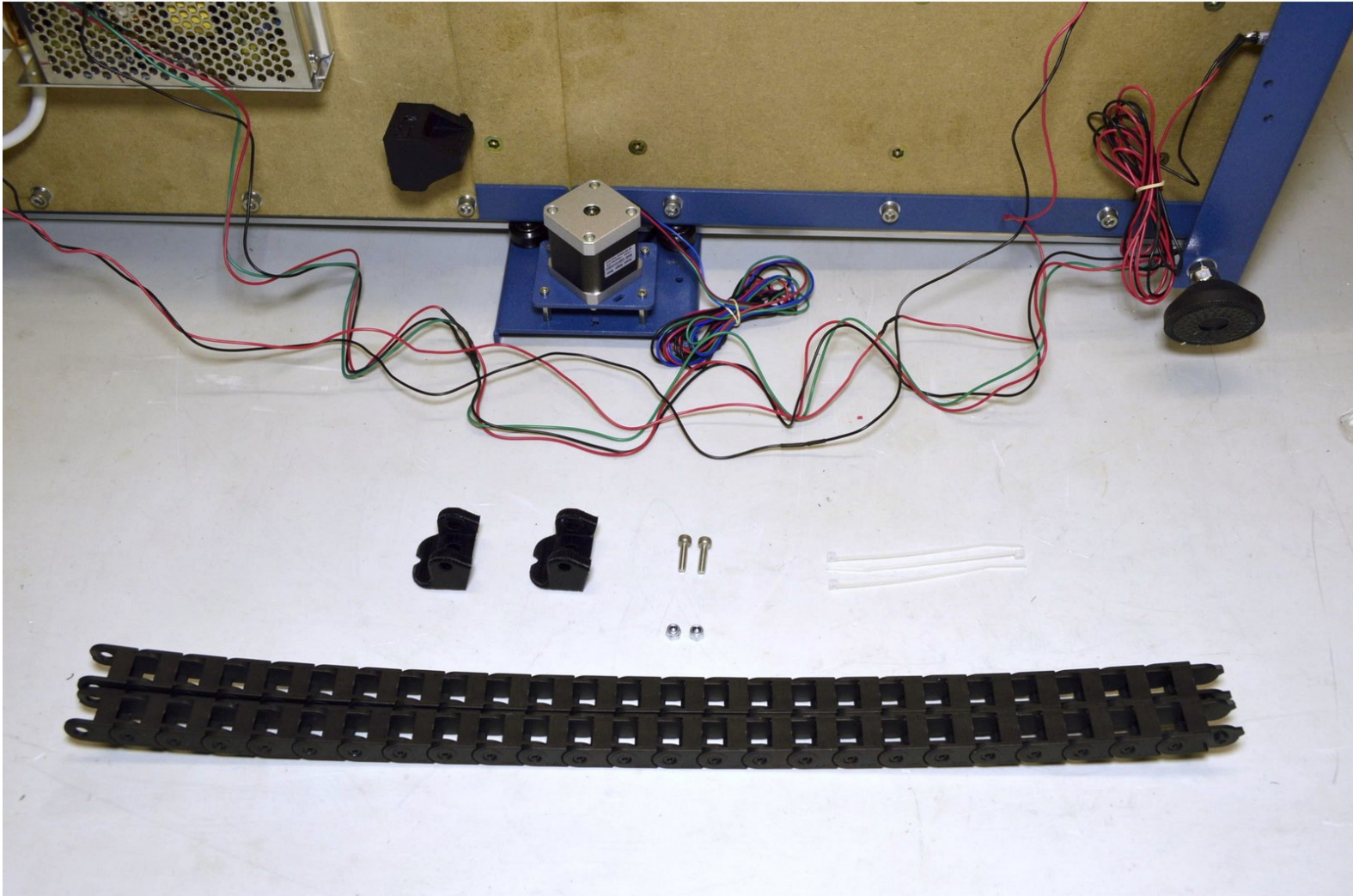


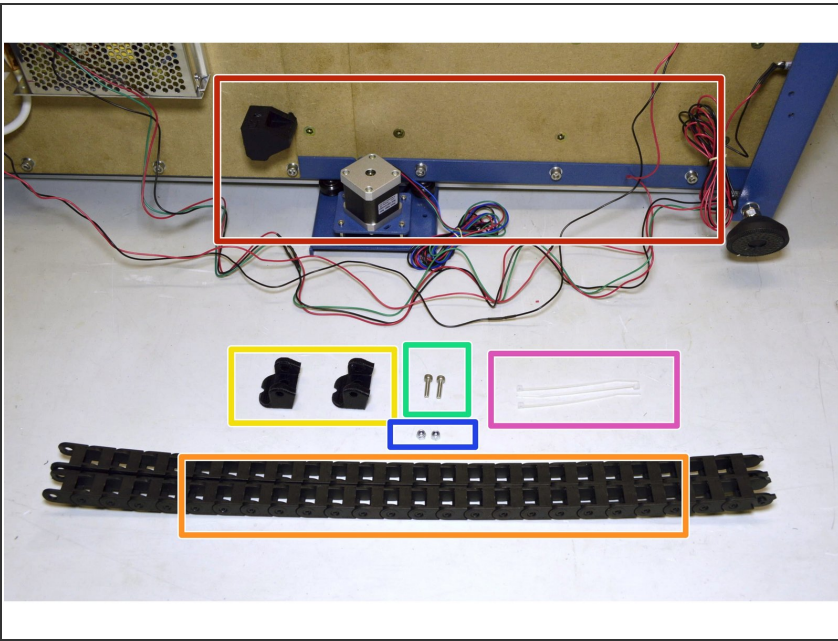
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22. Mount Y-Drag Chains

Written By: Paul Cronje

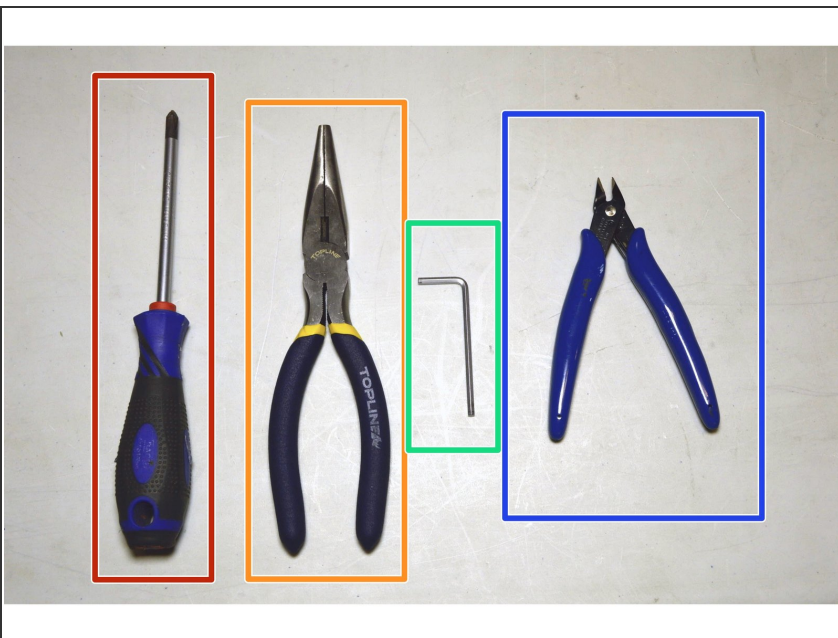


Step 1 — Parts Required



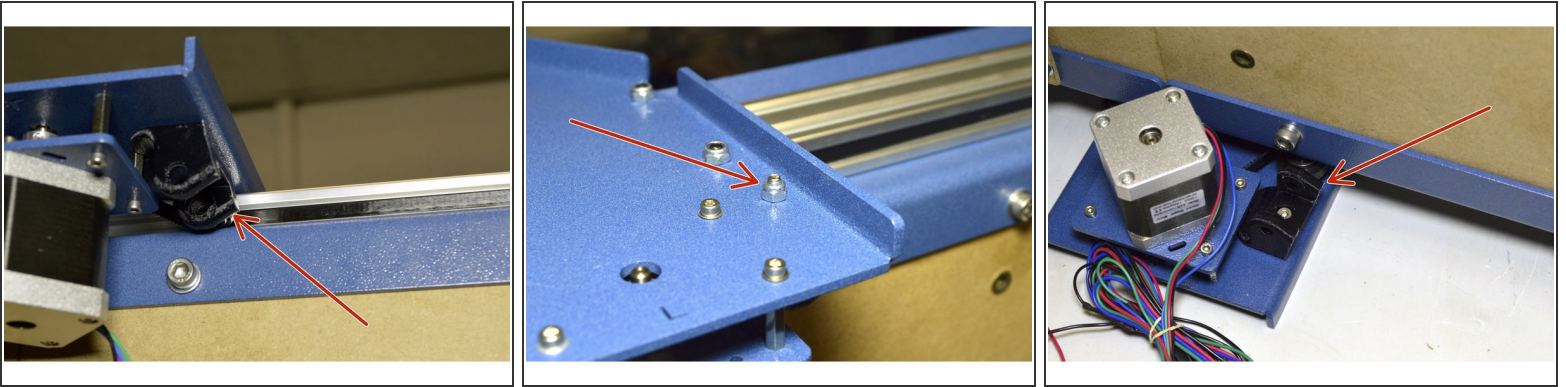
- CNC Machine
- Y-Drag Chain (2 Pcs)
- Y-Drag Chain Carriage Bracket (2 Pcs)
- M4x16 Cap Screw (2 Pcs)
- M4 Lock Nut (2 Pcs)
- Cable Tie 2.5mm (3 Pcs)

Step 2 — Tools Required



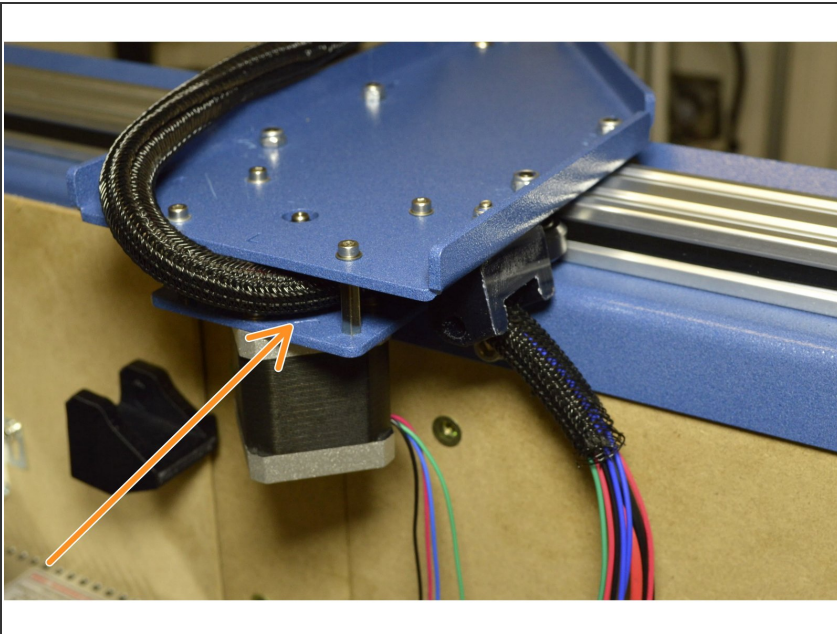
- Phillips Screw Driver
- Sharp Nose Pliers
- 3mm Allen Key
- Side Cutter

Step 3 — Mount Drag Chain Brackets



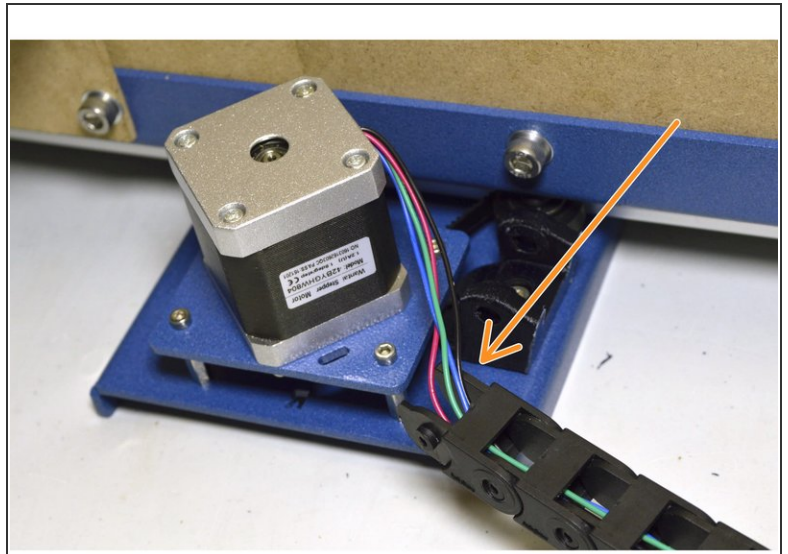
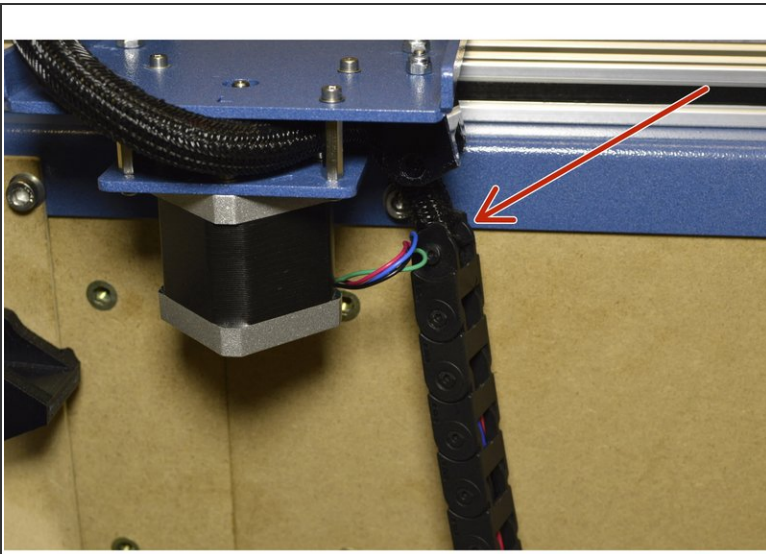
- Mount the Y-Drag Chain Carriage Brackets with the M4x16 Cap Screws (2 Pcs) and M4 Lock Nuts (2 Pcs) on the Left and Right Y-Carriage Plates as shown
- Tighten with the 3mm Allen Key and sharp Nose Pliers

Step 4 — Route X-Axis Cables



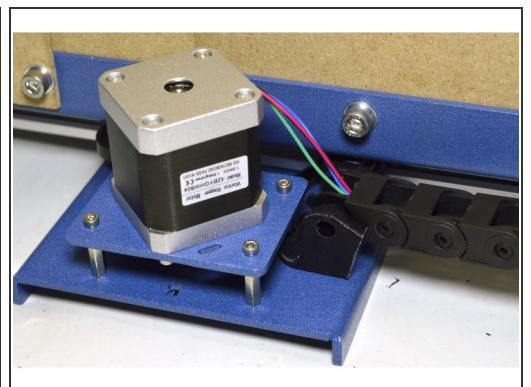
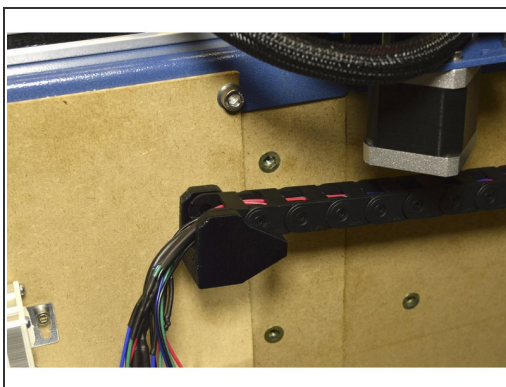
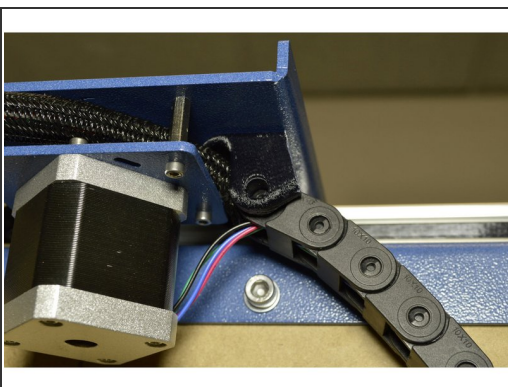
- Route the X-Axis Cables through the Left Y-Carriage plate as shown in the picture

Step 5 — Add Y-Drag Chains



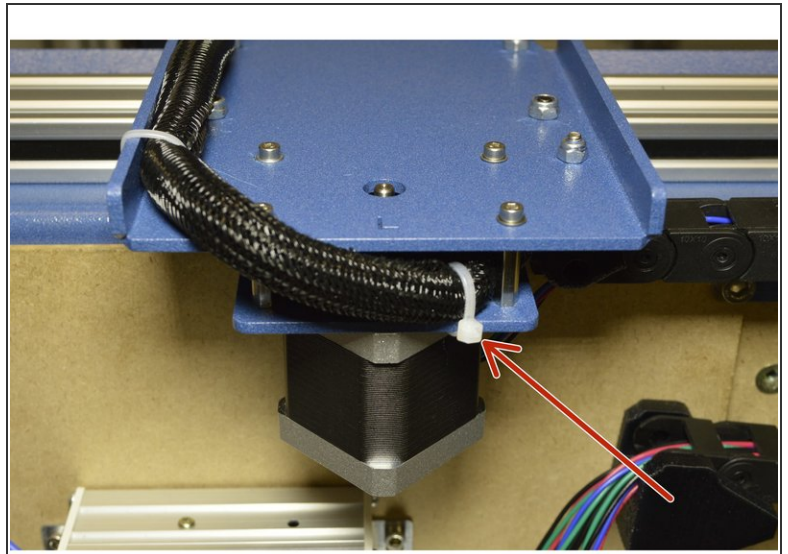
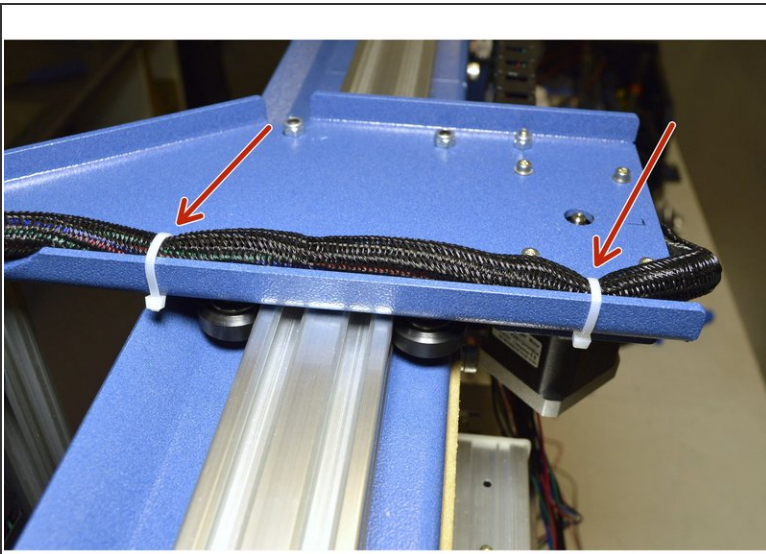
- Pull all the X-axis cables through the one drag chain.
- Make sure you have the correct end of the drag chain at the top.
- Also pull the Y-motor cable through the drag chain
- Pull the Y-motor cable on the bottom through the other drag chain as shown

Step 6 — Mount the Drag Chains



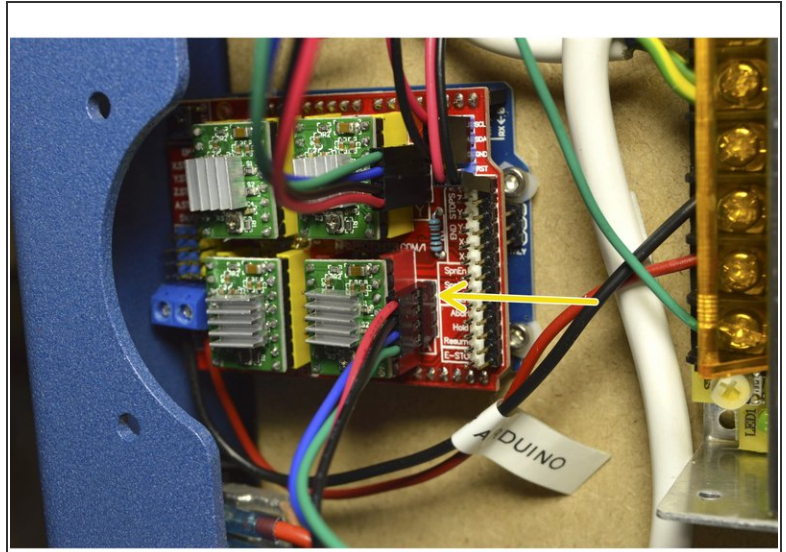
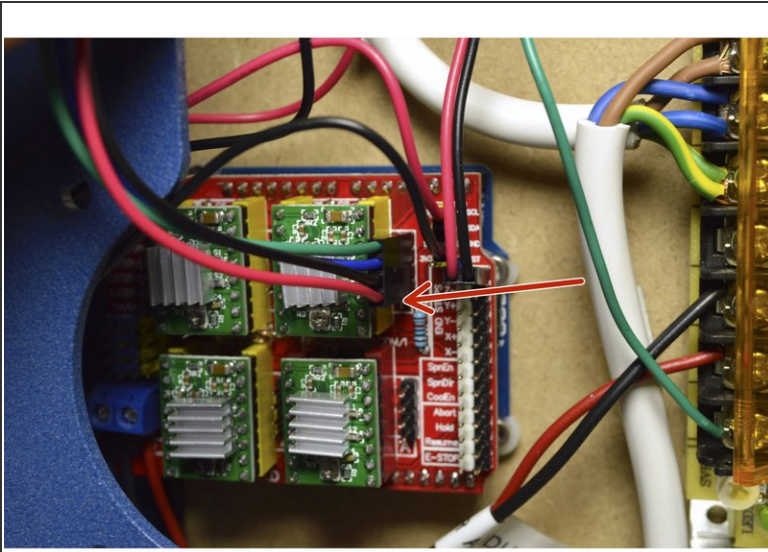
- Click the Drag Chains into the printed brackets on both ends as shown

Step 7 — Fix the Cable on Y-Carriage



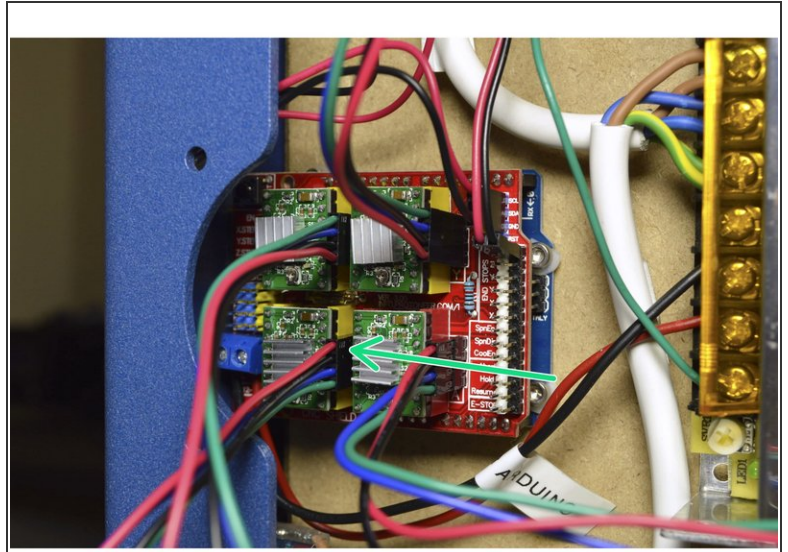
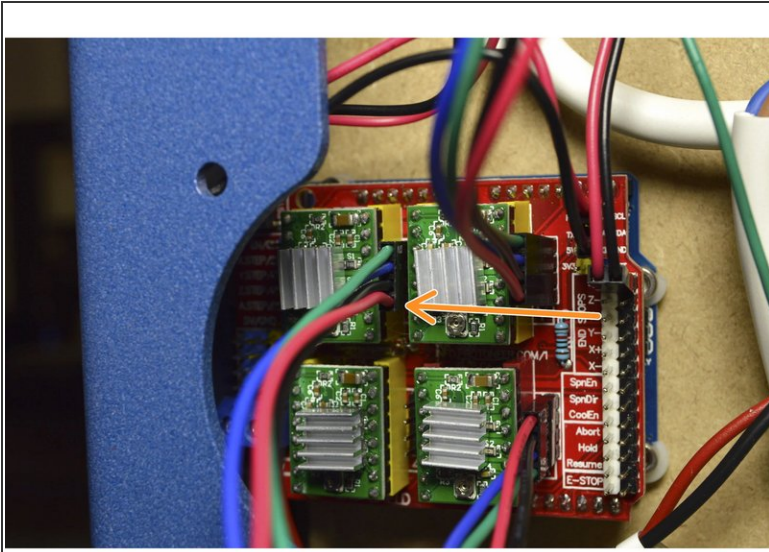
- Use the Cable Ties (3 Pcs) and mount the X-Axis Cables to the Left Y-Carriage Plate as shown. There are slots for all 3 cable ties in the blue plates

Step 8 — Connect Y-Motors



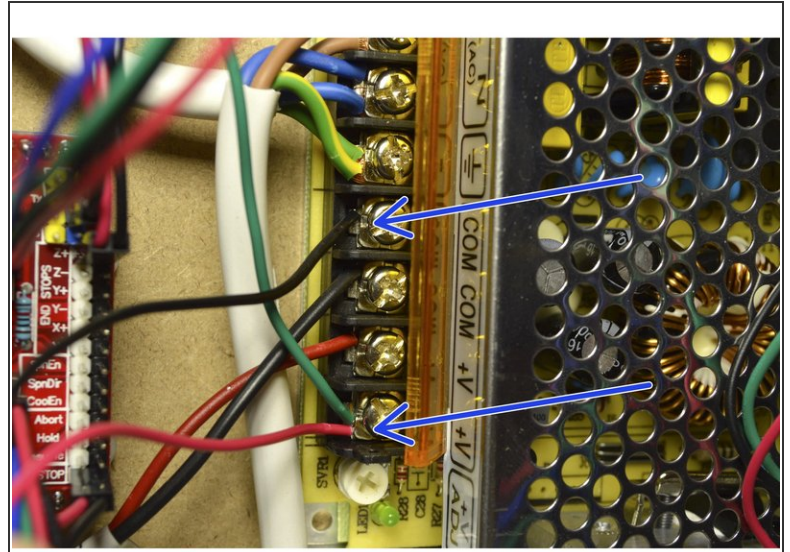
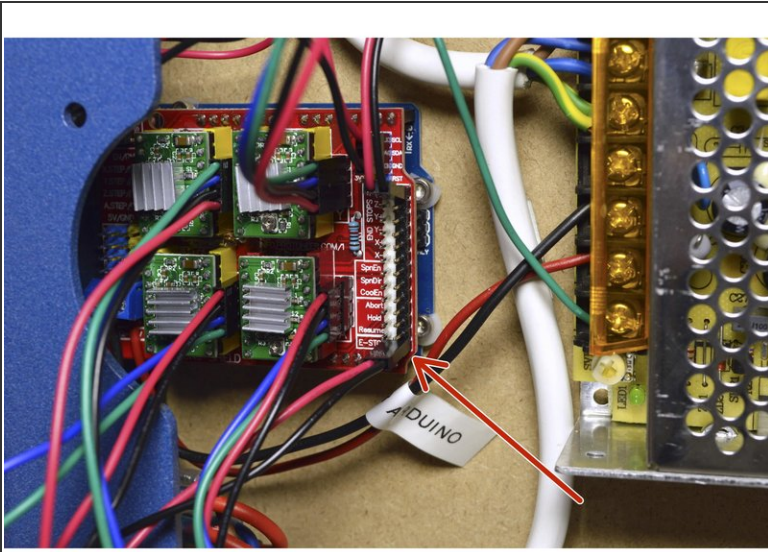
- Connect the Left Y-Motor to the controller board at the top right plug with the red cable to the bottom
- Connect the Right Y-Motor to the controller board at the bottom right plug with the red cable to the top

Step 9 — Connect X & Z Motors



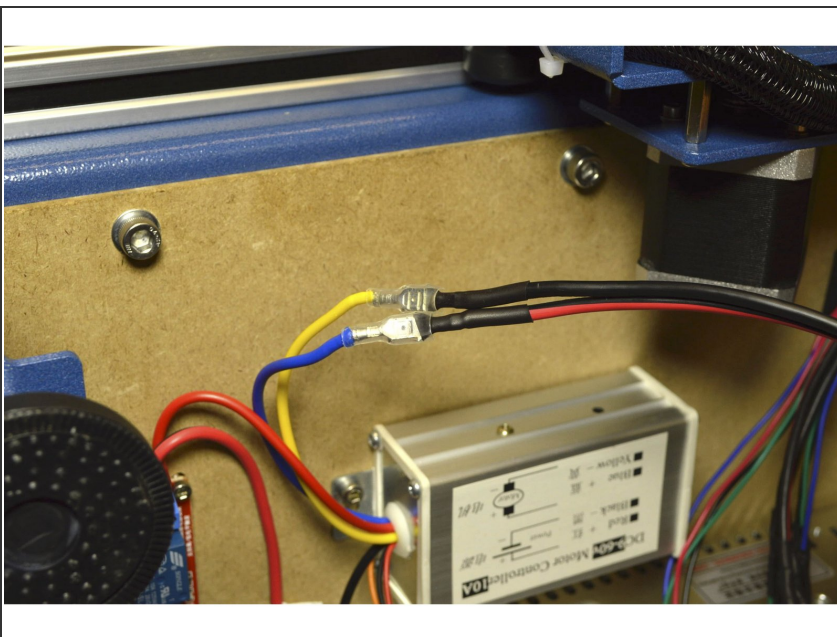
- Connect the X-Motor to the controller board at the top left plug with the red cable to the bottom
- Connect the Z-Motor to the controller board at the bottom left plug with the red cable to the top

Step 10 — Connect the E-Stop & LED



- Connect the 2-pin connector of the Emergency-Stop to the E-STOP port on the bottom right pins on the controller board as shown
- Connect the two cables of the LED on the front panel to the 100W, 12V power supply. The red cable connects to the +V port with the green wire and the black wire connects to the COM port.

Step 11 — Connect Spindle Cable



- Connect the spindle cable to the Blue and Yellow wires on the Spindle speed controller.
- The Red wire connects to the Blue wire and the Black wire connects to the Yellow wire

