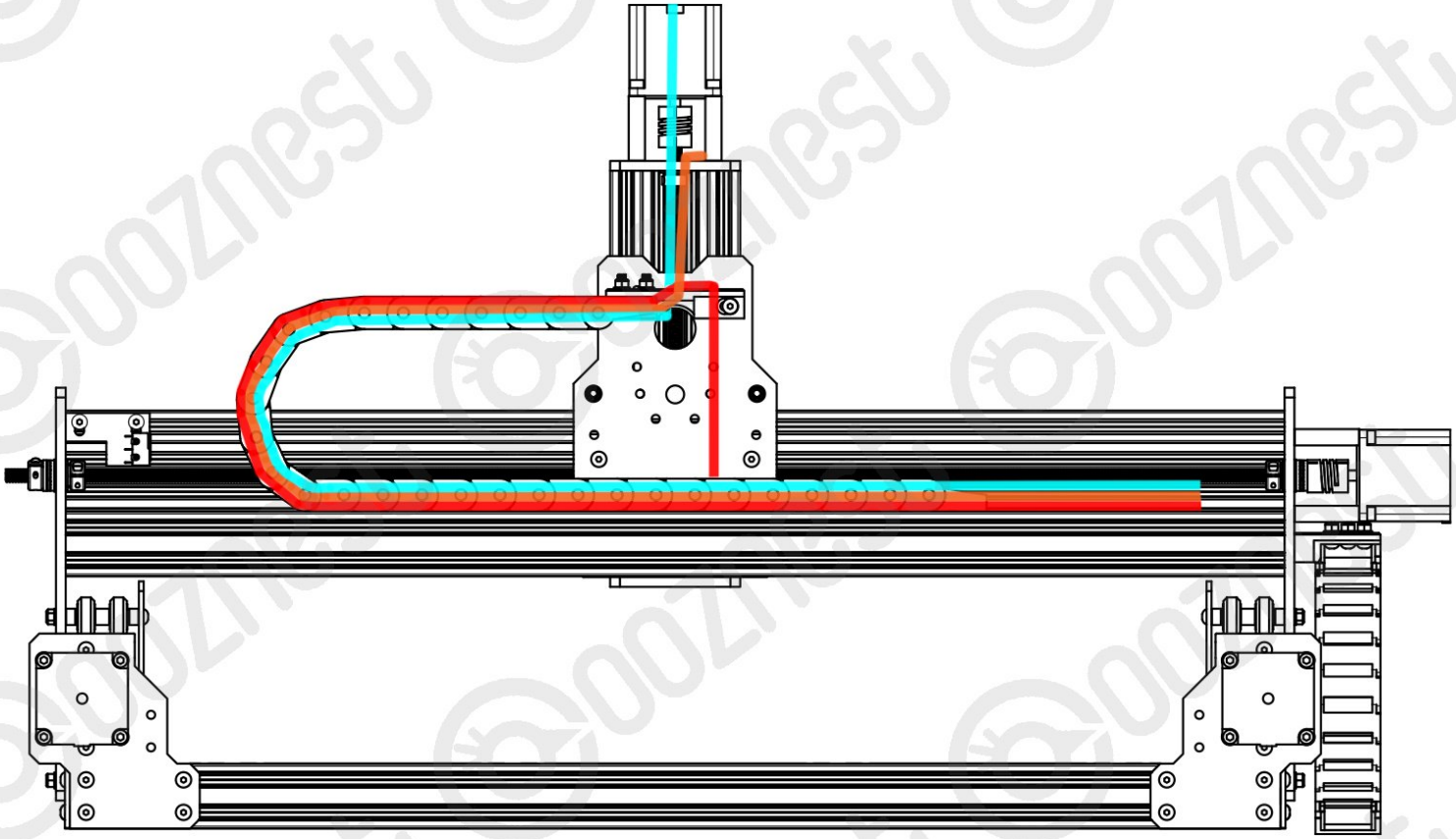
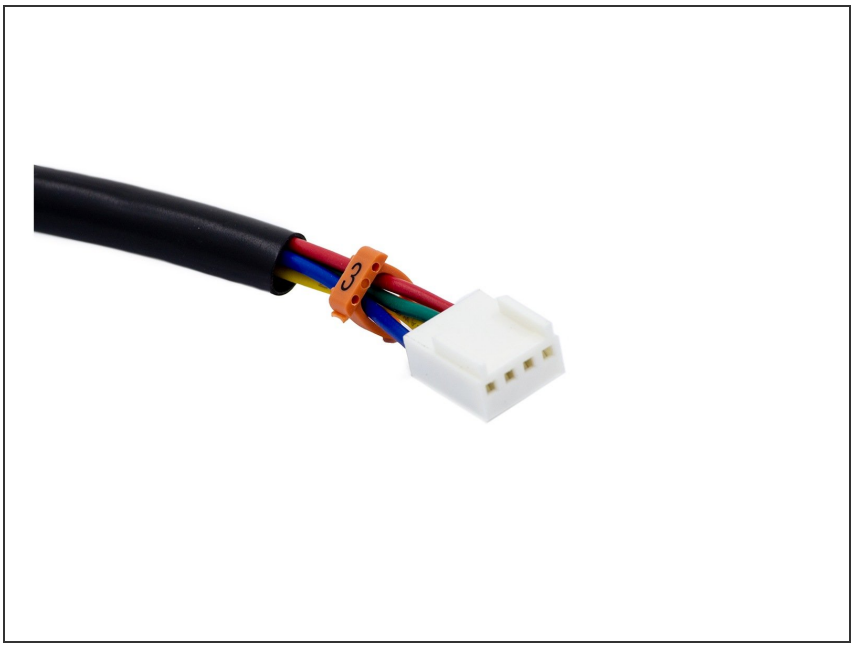
4. Wire Routing

Written By: Robert

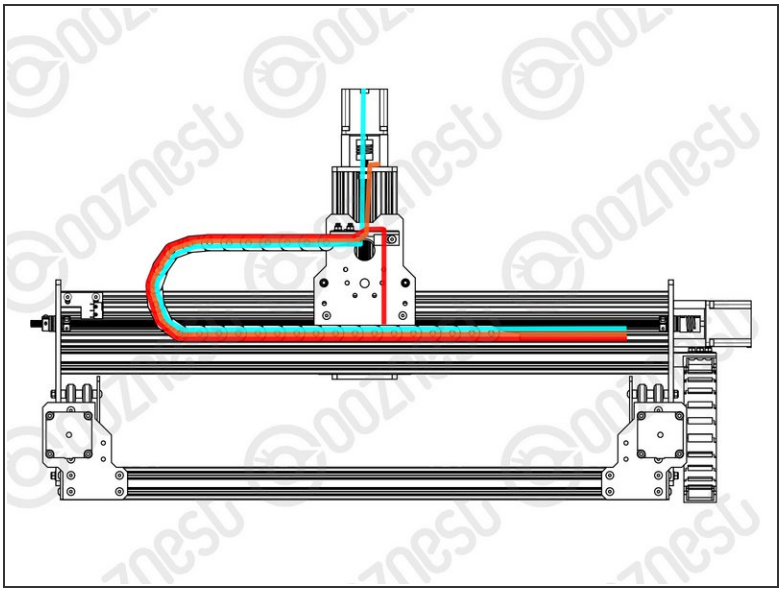


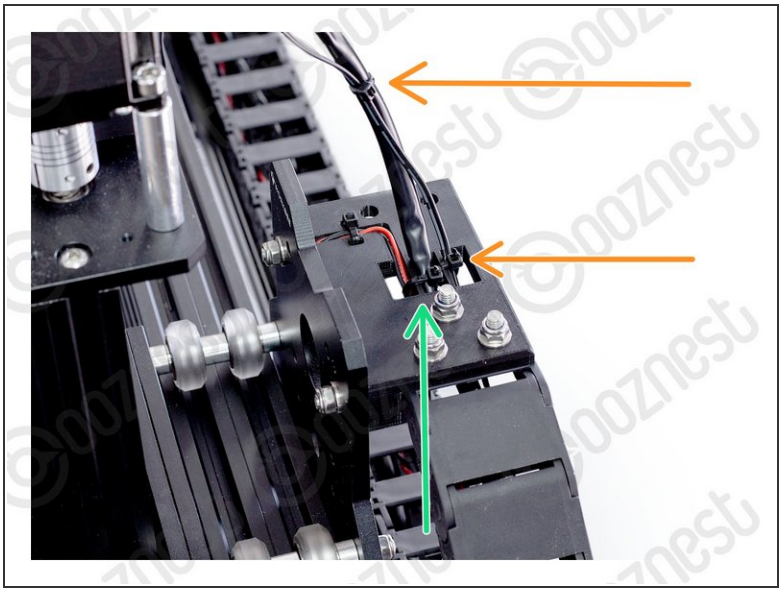
Step 1 — Cheat Sheet



- You are going to need our Motor Wire and Limit Switch Cheat Sheet. We recommend printing it off!

Step 2 — Z-Axis Wiring



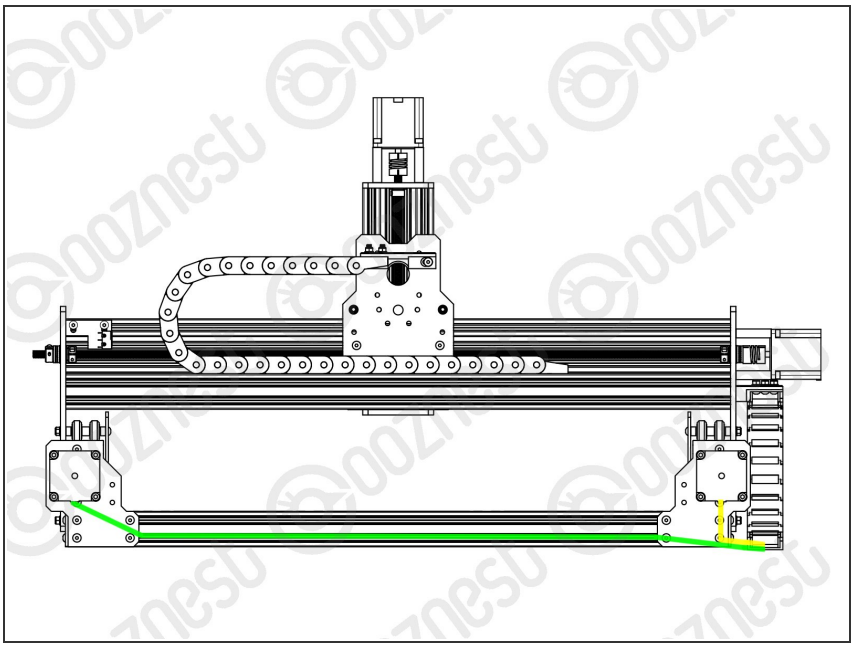


- Motor-Wire-6 is coming out of the Moving End of Drag-Chain-X.
  - Feed Motor-Wire-6 through the Drag-Chain-Mount and plug it into the pigtail on the Z-Axis Stepper-Motor.
- Feed the wire from Limit-Switch-2 through the Drag-Chain-Mount and then through Drag-Chain-X so it comes out the Fixed End.
- Secure the Limit-Switch-2 wire and Motor-Wire-6 together to the Drag-Chain-Mount using a small cable tie as in Image 2.
  - Make sure there is enough slack on Motor-Wire-6 for the full travel of the Z-Axis.

ⓘ Any unneeded slack in both these wires should be pulled out at the Fixed End of the Drag-Chain-X.

- If you have the Touch Probe you can route that wire through Drag-Chain-X like Step 4 of Assembling Your Original WorkBee XYZ Touch Probe
  - Secure the wire to the Drag-Chain-Mount using a small cable tie. Then secure it along Motor-Wire-6.

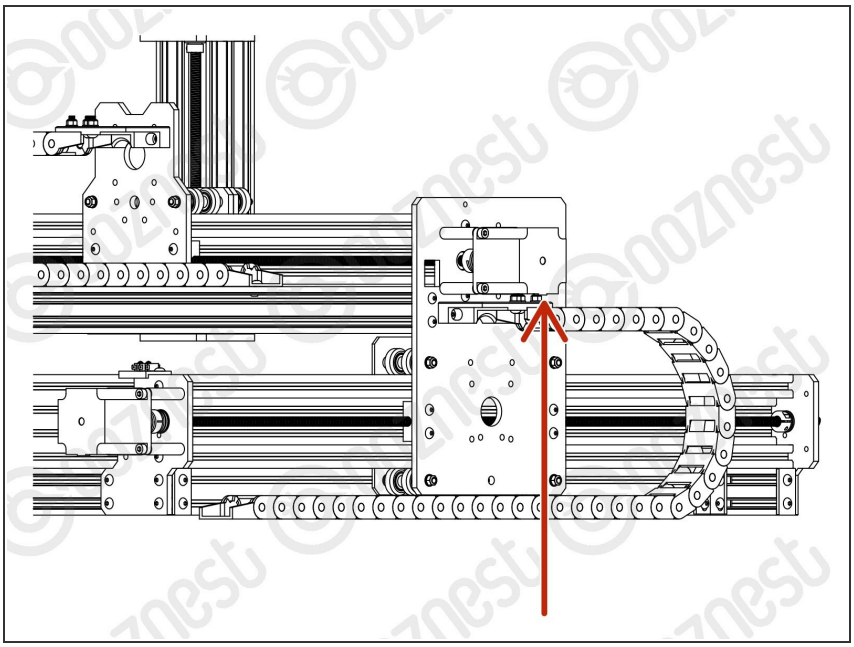
Step 3 — Y-Axis Wiring



- Motor-Wire-5 is coming out of the Fixed End of Drag-Chain-Y.
  - Tuck this wire into the bottom slot of Extrusion-A
  - Plug it into the right Y-Axis Stepper-Motor (If looking from the front)
- Motor-Wire-4 is coming out of the Fixed End of Drag-Chain-Y.
  - Plug it into the left Y-Axis Stepper-Motor (If looking from the front)

ⓘ Any slack in both these wires should be pulled out at the Moving End of the Drag-Chain-Y.

Step 4 — X-Axis Stepper Motor



- Plug Motor-Wire-3 into the X-Axis Stepper-Motor.
  - Leave it hanging for now.

Step 5 — Guide Complete

- That is all the wires routed. Now time to plug it all in!
- Guide Complete - Proceed to 5. Controller

Thanks for following the guide. Any issues, please contact us!