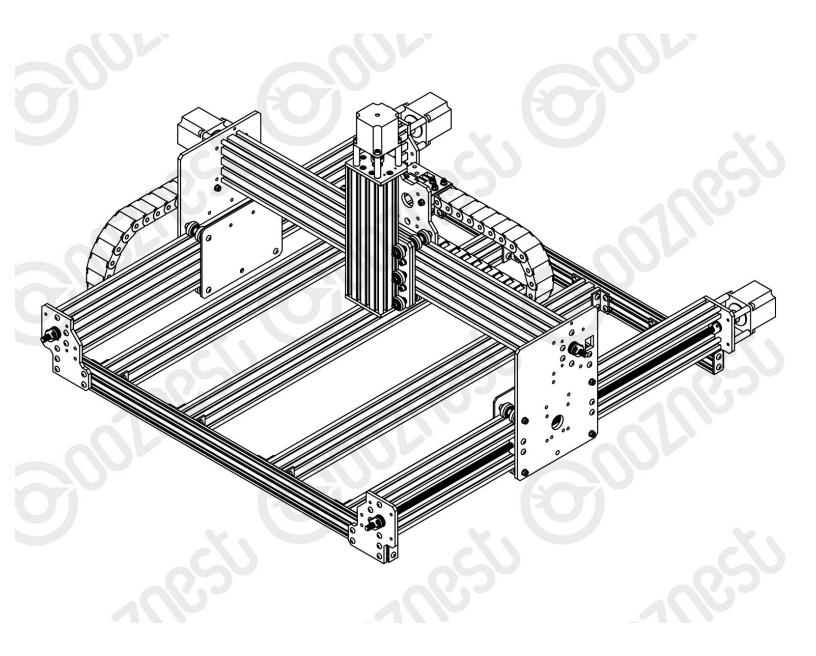
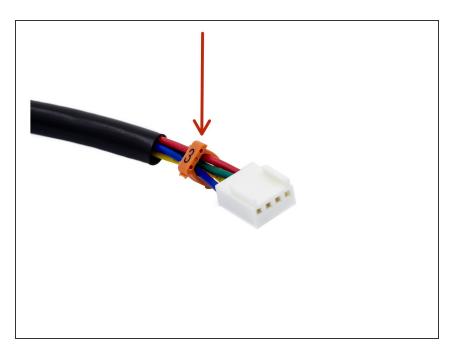


1. Drag Chains

Written By: Robert

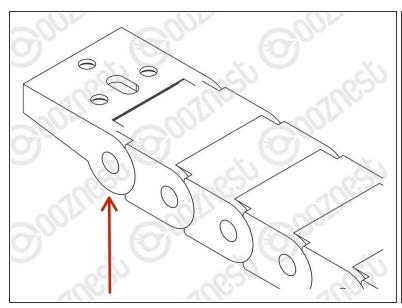


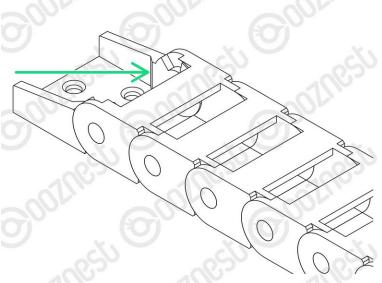
Step 1 — Cheat Sheet



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

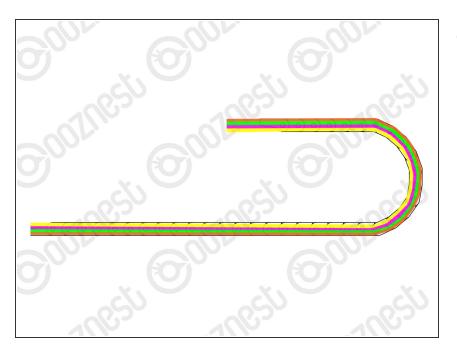
Step 2 — Drag Chains





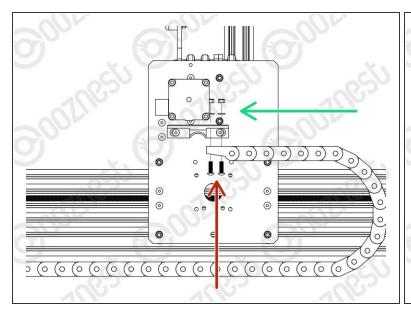
- Look at the X & Y Drag-Chains.
 - On each end, there is an end mount.
 - If the end mount connects to the next link on the outside, this is known as the Moving End.
 - If the end mount connects to the next link on the inside, this is known as the Fixed End.
 - ⚠ It is important you remember this, as these terms will be used going forward.
- ① Take a look at the links of the Drag-Chains. On one side of each link, there is a little slot.
 - (i) If you put a Flathead Screwdriver in this slot and twist. The top tab of the Drag-Chain will open.
 - Knowing this can come in useful later!

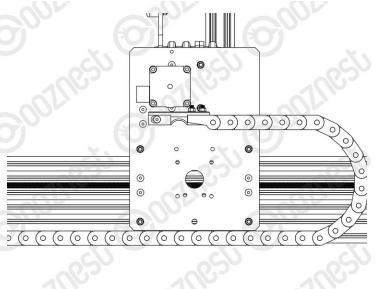
Step 3 — Drag-Chain-Y



- Lay the Drag-Chain-Y flat out on a table.
 - Feed through Limit-Switch-1.
 - ⚠ The switch end of Limit-Switch-1 should be at the Fixed End of Drag-Chain-Y
 - Feed through the output cable of the Emergency-Stop.
 - The red/black crimped connectors should be at the Moving End of Drag-Chain-Y.
 - Feed through Motor-Wire-4 and Motor-Wire-5.
 - The black connector of the Motor-Wires should be at the Fixed End of Drag-Chain-Y.
 - If you have the Ethernet version of the machine. Feed through the Ethernet Cable. (Orientation does not matter)

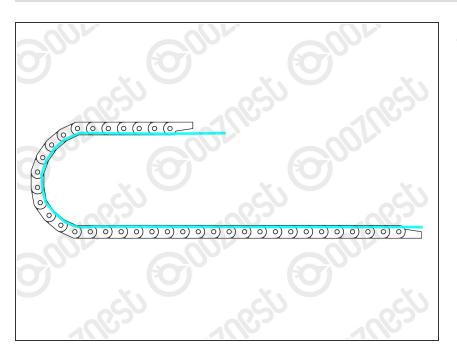
Step 4 — Attaching Drag-Chain-Y





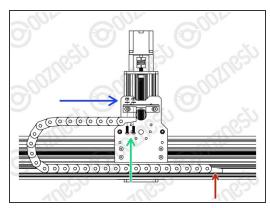
- Position Drag-Chain-Y flat along the left side of the machine.
 - The Fixed End of Drag-Chain-Y should be at the back of the machine.
 - ① The Fixed End of Drag-Chain-Y will be fixed into position in a later guide.
 - Bring the Moving End of Drag-Chain-Y upwards to the Drag-Chain-Mount on the Y-Carriage-Left.
 - Attach it to the 3 holes on the Drag-Chain-Mount using 3 x M5-Button-Head-Bolt-16mm through the bottom.
 - The add 3 x Precision-Shims and 3 x M5-Nyloc-Nuts on the opposite side of the Drag-Chain-Mount.

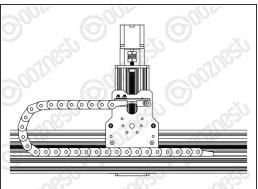
Step 5 — Drag-Chain-X

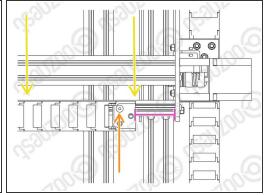


- Lay the Drag-Chain-X flat out on a table.
 - Feed through Motor-Wire-6
 - ⚠ The black connector of Motor-Wire-6 should be at the Moving End of Drag-Chain-X.

Step 6 — Attaching Drag-Chain-X







- Position Drag-Chain-X flat along the back of the X-Gantry sitting on top of Extrusion-B.
 - If looking from the back, the Fixed End of Drag-Chain-X should be at the right side of the machine.
 - Bring the Moving End of Drag-Chain-X upwards to the Drag-Chain-Mount on the X-Carriage.
 - Attach it to the 3 holes on the Drag-Chain-Mount using 3 x M5-Button-Head-Bolt-16mm through the bottom.
 - The add 3 x Precision-Shims and 3 x M5-Nyloc-Nuts on the opposite side of the Drag-Chain-Mount.
- Attach the Fixed-End of Drag-Chain-X to Extrusion-B using 1 x M5-Button-Head-Bolt-8mm and a M5-Drop-In-Tee-Nut.
 - There should be a 90mm gap between the end of Drag-Chain-X and the inside of the Y-Carriage. You can reduce this distance once you start using the machine to stop Drag-Chain-X from hitting the Y-Carriage at the opposite end.
 - Drag-Chain-X should run flush with Extrusion-B.

Step 7 — Guide Complete



- ② Don't worry we will tidy up all the messy wires!
- Guide Complete Proceed to <u>2</u>.
 <u>Limit Switches</u>

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