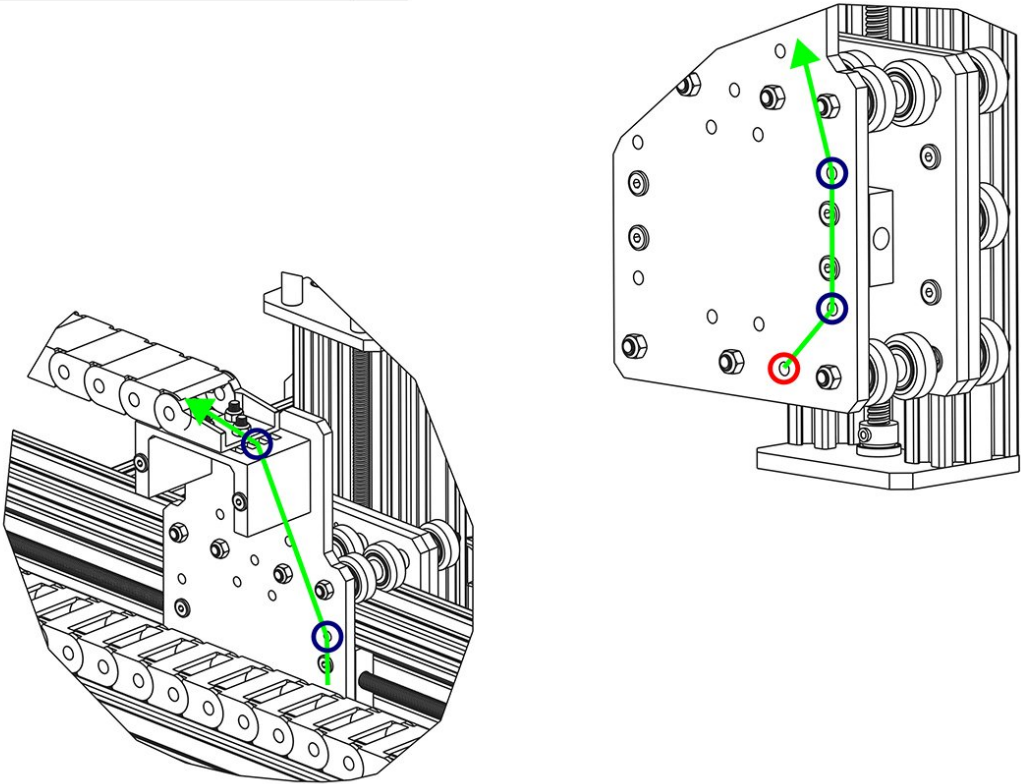




5. Wire Routing

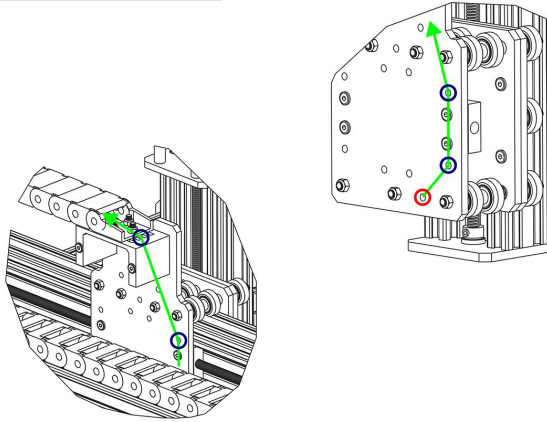
Written By: Harry Ince

ITEM NO	DESCRIPTION	QTY
1	CABLE-TIE-SMALL	3



Step 1 — Z-Axis Limit Switch Wiring

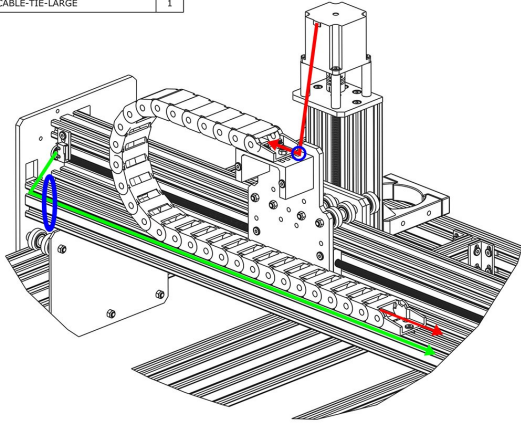
ITEM NO	DESCRIPTION	QTY
1	CABLE-TIE-SMALL	3



- The Z-Limit-Switch sits in-between two sets of wheels. Directly opposite there is a hole. Feed the wires through this hole (red circle).
- ⚠ Pull the wire tight to prevent the wire rubbing on the C-Beam Extrusion.
- As shown by the green line above bring the Z-Limit-Switch wires up the X-Plate-Back, and feed it through the X-Drag-Chain.
- Secure the wires using Cable-Tie-Small to the points marked with blue circles. To stop it snagging on anything the wire should be pulled tight.

Step 2 — Screw Driven - Gantry Wire Routing

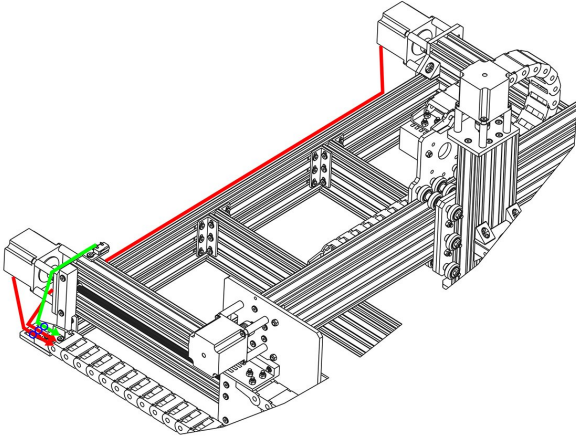
ITEM NO	DESCRIPTION	QTY
1	CABLE-TIE-SMALL	1
2	CABLE-TIE-LARGE	1



- For the Z-Axis Motor Wire that is inside the X-Drag-Chain, connect it to the pigtail on Z-Axis stepper motor. Making sure there is enough slack for the full travel of the Z-Axis shown in red, secure the wire to the X-Drag-Moving-End-Mount using a Cable-Tie-Small, shown by the small blue circle above.
- The lead on the X-Axis limit switch should be secured to the V-Slot-2040-750mm using a Cable-Tie-Large at the position shown by the blue oval above. Then run the lead along to the other end of V-Slot-2040-750mm - it can be tucked into one of the slots.

Step 3 — Screw Driven - Y-Axis Wire Routing - Part 1

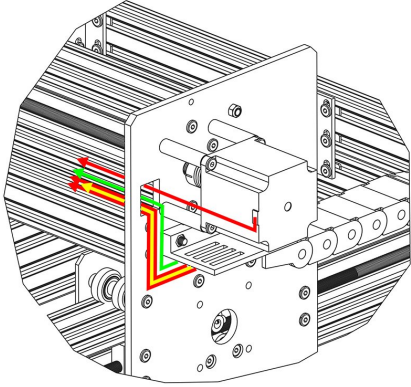
ITEM NO	DESCRIPTION	QTY
1	CABLE-TIE-SMALL	3



- Connect the two stepper motor wires in the Y-Drag-Chain to their corresponding pigtails on the Y-Axis stepper motors. The longer wire should connect to the right hand stepper motor.
- Secure the stepper motor wires to the Y-Axis-Fixed-End-Mount using Cable-Tie Smalls. The wire for the right hand stepper motor can be tucked into a slot on one of the extrusions along the back.
- Secure the lead on the Y-Axis limit switch to the Y-Axis-Fixed-End-Mount using a Cable-Tie-Small.

Step 4 — Screw Driven - Y-Axis Wire Routing - Part 2

ITEM NO	DESCRIPTION	QTY
1	CABLE-TIE-SMALL	5



- Connect the X-Axis motor wire to the pigtail on the X-Axis stepper motor and feed it through the square hole on the Y-Plate.
- Inside the Y-Drag-Chain there should be two stepper motor wires (red line), a power supply wire (yellow line), and a limit switch wire (green line). Feed all of these through the square hole on the Y-Plate.
- Remove any slack inside the Y-Drag Chain, and then secure these 4 wires to the Y-Drag-Chain-Moving-End-Mount using Cable-Tie-Small.

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