



1515 Twist In Zip Tie Clip

 **Darkstar77**

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Summary

Small zip tie anchor that twists into 1515 extrusion found on Voron V0 or Printers for Ants printers.

[3D Printers](#) > [Voron Parts & Upgrades](#)

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[1515extrusion](#)

I'm finishing up a Voron Micron+ (Printers for Ants) build. The AB drive wiring is... not great. There are not any clean ways to route the wires for the AB drive motors LDO has provided in their parts kits. There are some nice 2x2 microfit adapters, but I don't have any microfit connectors on hand, and didn't feel like ordering them after I had already wired up some JST XH connectors and cables. I just needed some zip tie anchors. Anchors that need to attach to the 1515 extrusion. There are not roll in nuts, or t nuts for 1515, which means you need to "preload" M3 nuts into the extrusion, which is a massive pain if you didn't think of that.

This design had 2 requirements. First, it has to work with the heavy small zip ties I get from Homedepot, which are 1.2mm thick, and 2.5mm wide. Second, it had to "twist" into the extrusion, so I didn't need to dismantle anything to load in more M3 nuts.

This very small, and basic part does what I need. It can be inserted into the rail sideways, and then a quarter turn counter clockwise locks it into place. That simple. Don't force the turn, if it's resisting you, something is probably wrong, and given how tiny these are, I imagine they would be pretty easy to break. That said, I was pretty rough on mine while developing the design (4 iterations for tolerances), and did not break a single one. Regardless, I imagine if they did break off, they would be next to impossible to get out of the extrusion without printer disassembly, so be careful.

I recommend printing at least 6 at a time, as they are very small. Mine were printed with a 0.6 nozzle at 0.2 layer heights in ASA. I expect they would print a little easier with a 0.4 nozzle, and 0.2 layer heights are fine. They don't result in the prettiest wiring, but they do give you simple zip tie anchor points that are really easy to insert into the rail where needed.

Model files



1515-wireclip.stl

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