

Cyberdeck: Part Six

 medium.com/@jagould2012/cyberdeck-part-six-8ce38e752cfb

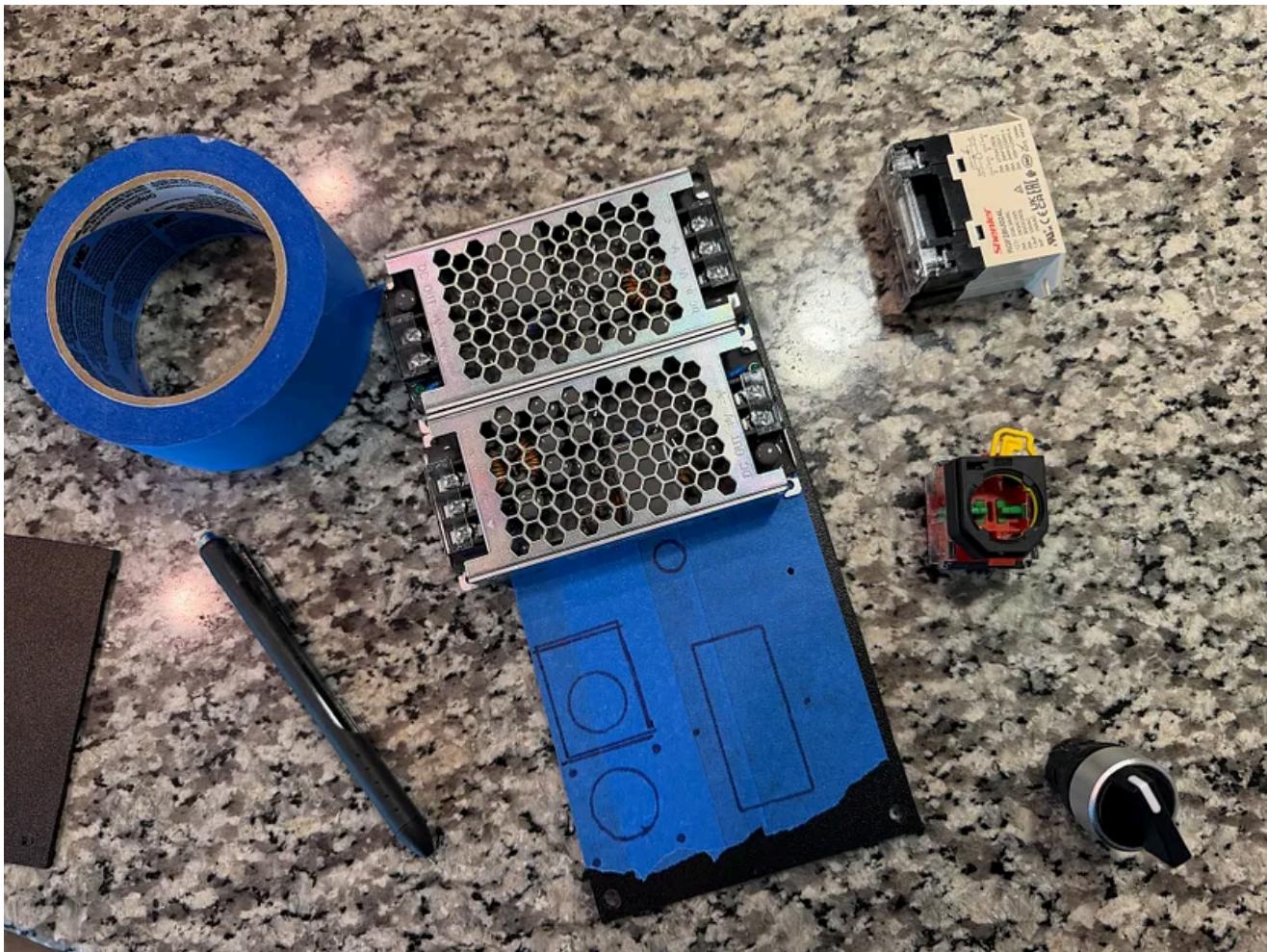
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Second day of the build and today I'm building out the Power panel.

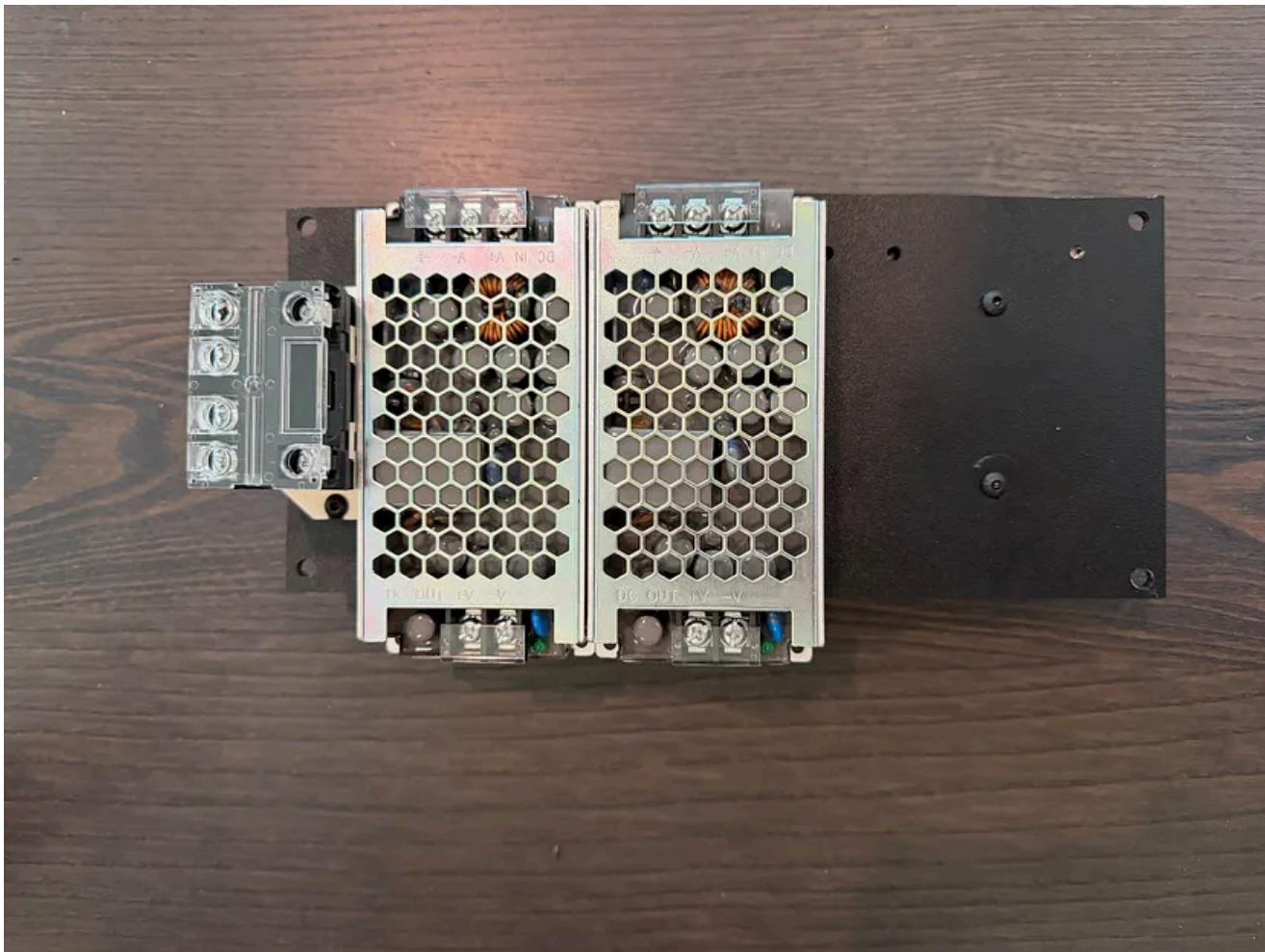
The panel will include:

- 24V DC power supply from mains.
- Two 5V DC buck boost power convertors.
- Relay for isolating the supplies.
- Feed for 12V DC converter on the USB board.
- Three position selector switch to mount on main panel.
- XT90 DC input to mount on main panel.

The whole assembly will mount to the rear of the main panel using 2" standoffs, leaving enough room for about 1.25" of parts on the back between the panel and the inside of the case.



Laying out the parts to not conflict with panel mounted devices.



Relay and 5V DC converters mounted between the panel and main aluminum panel.



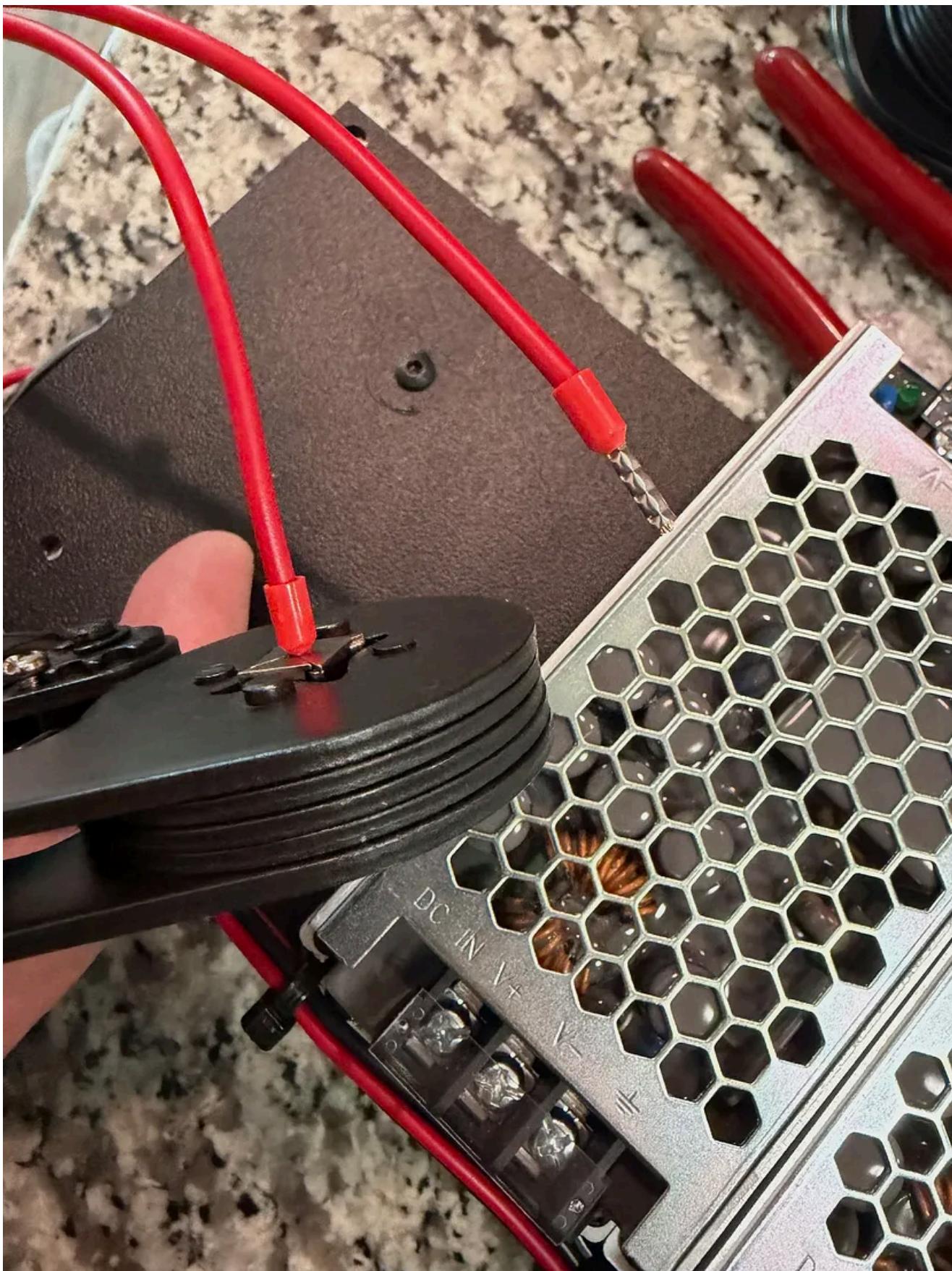
24V DC power supply mounted to rear of panel.



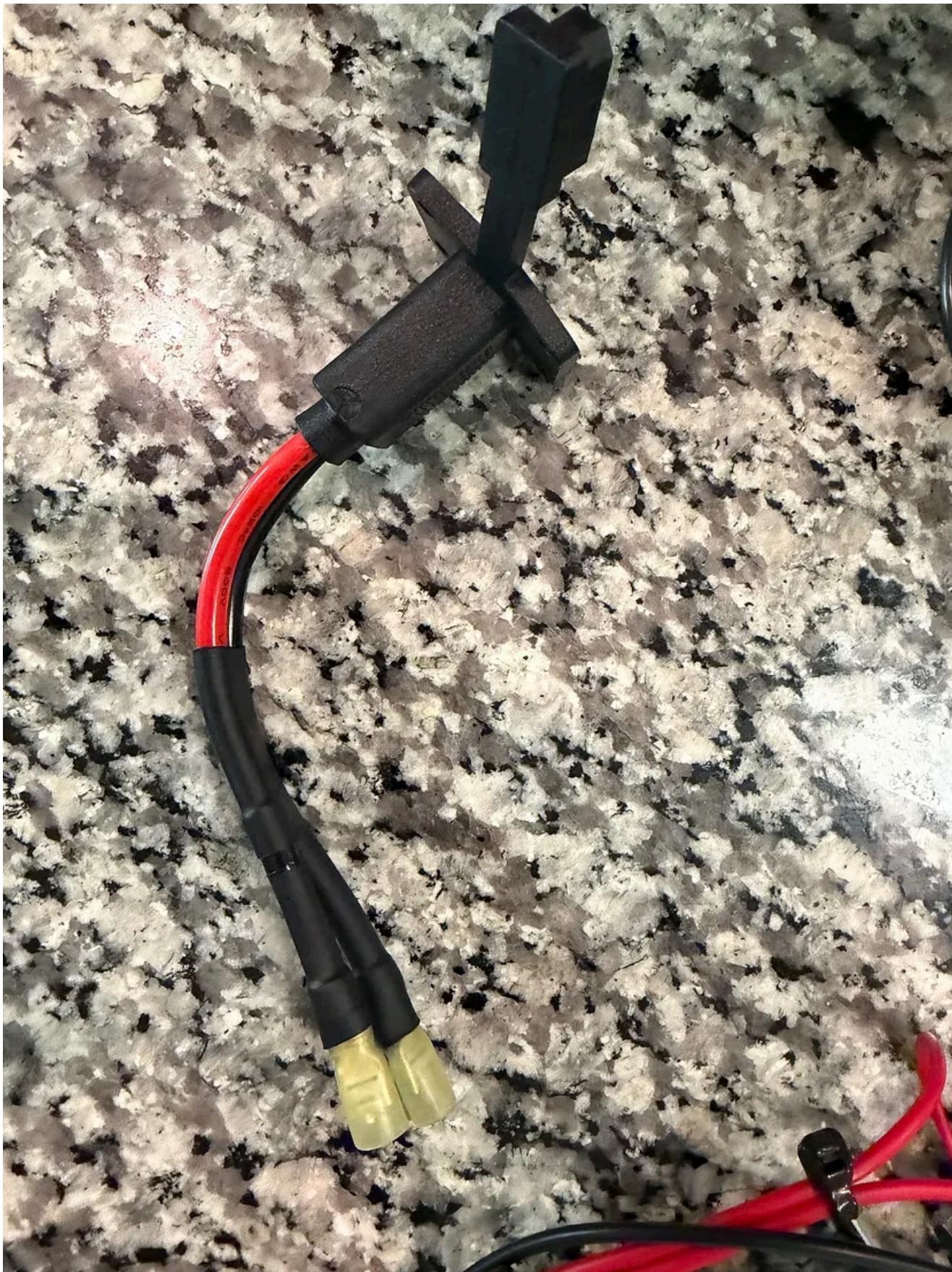
18 GA automotive wire used to build harness.



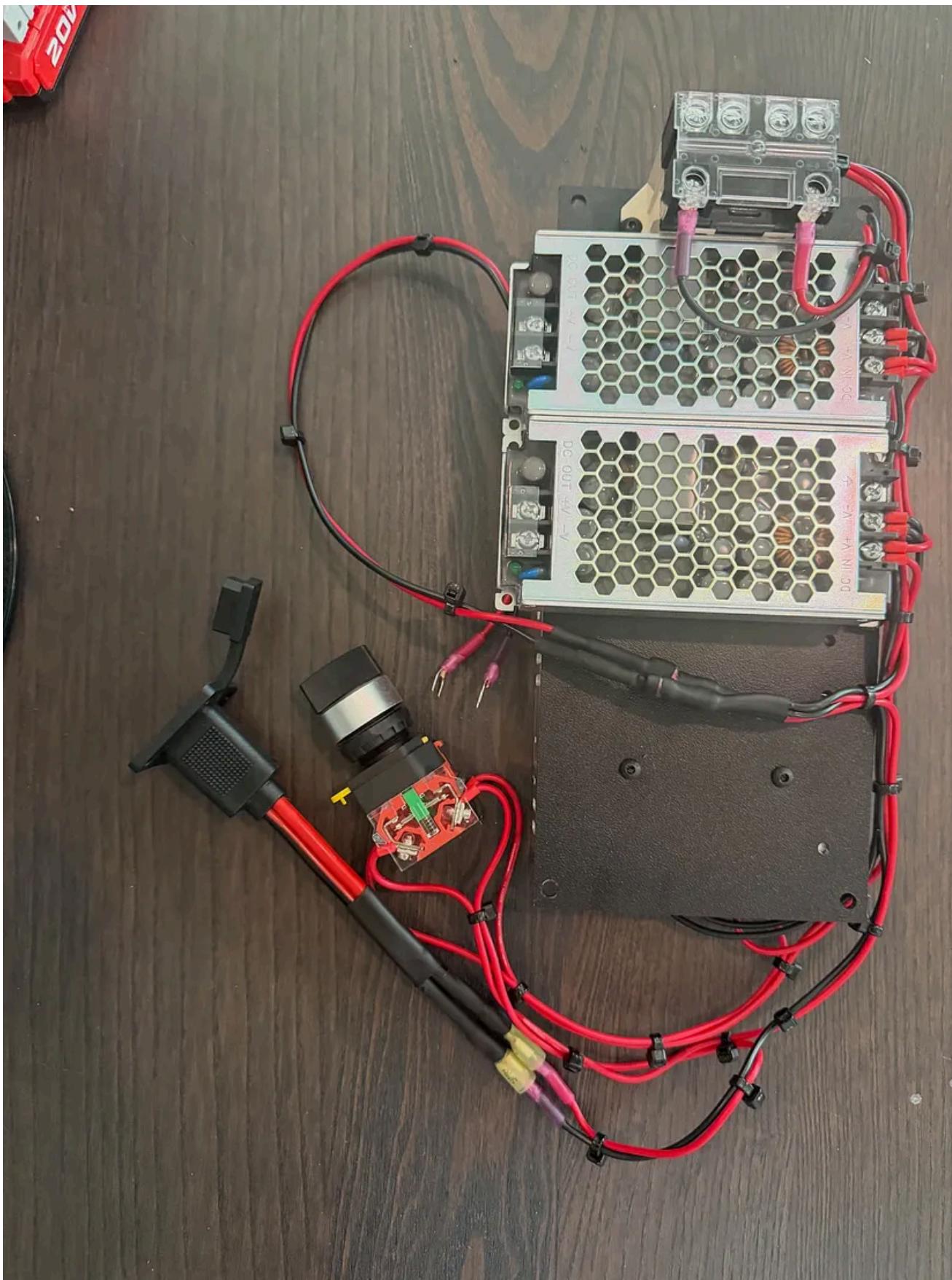
All crimp fittings are made with heat shrink material.



Love these wire end terminals for landing wires in screw terminals. The teeth it leaves will never pull out.



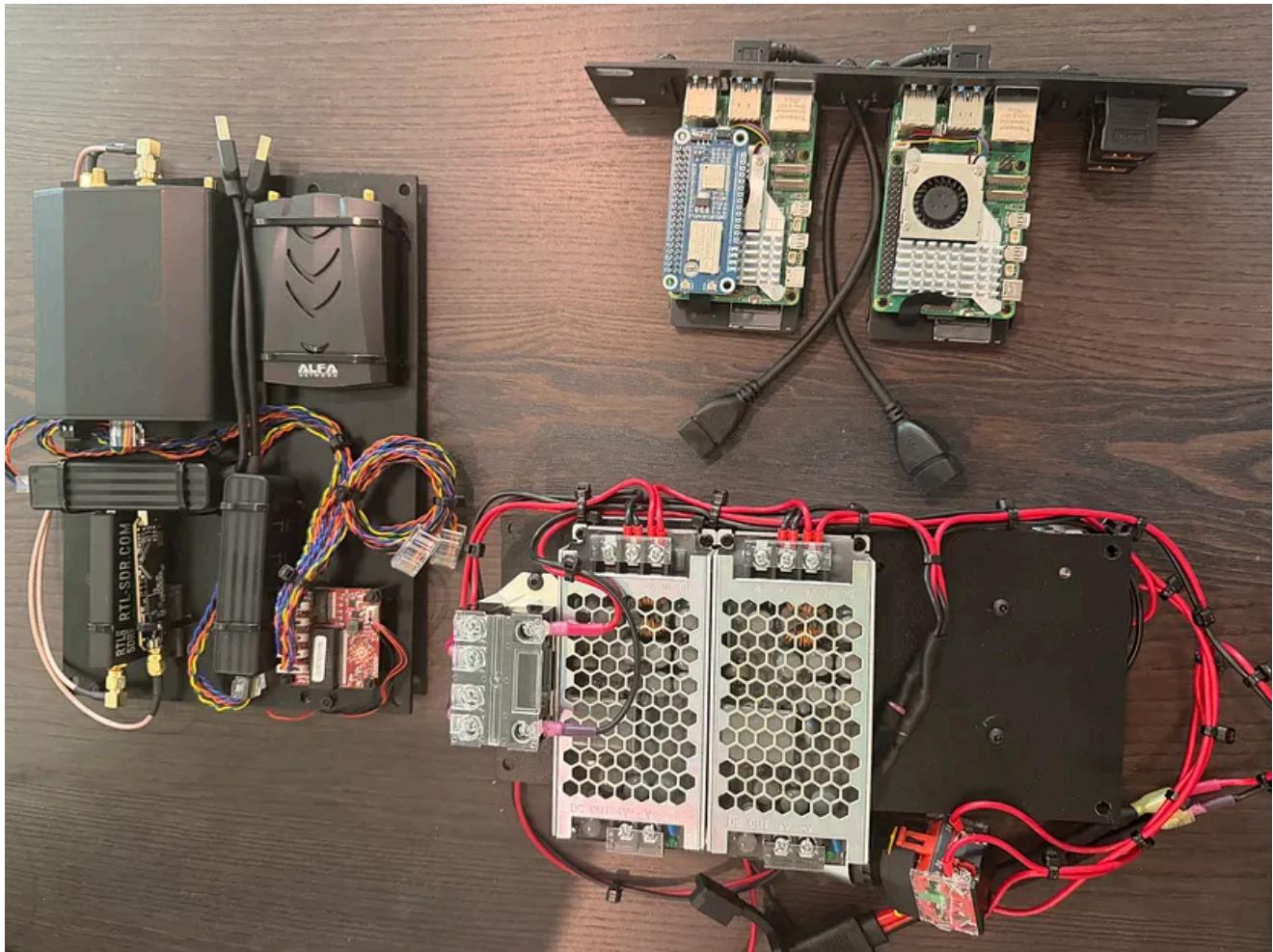
XT90 DC input cut down and heat shinked.



The final assembly ready to mount.

This really took me back to my car audio days in high school, though my assortment of specialty crimpers was not a luxury I had back then :)

The aluminum plate from Data Pro arrives in two days, and the sub assemblies are all ready for the final build.



USB panel, CPU panel, and Power panel sub-assemblies.