NPD POWERED
PRODUCTS AND EQUIPMENT LINE

Wiring/Crimping Issues

Symptoms:

One setting on the switch works but the other doesn't.
The power is intermittently cutting in and out on one or both settings.

If the sprayer works on one setting but not the other, it looks like we are dealing with wiring that has come loose during operation. I've attached a series of pictures that will show you the process of checking and re-crimping the wires so they will sit snuggly on their connections. These pictures are for the wires that go into the harness but the same method applies to the ones connected to the rocker switch, minus having to pull on the silver tab at the end since it has a different connection style.

Open up the back of the unit using a #2 Phillips screw driver. Remove the 7 screws on the back foam pad (except for 8 Gallon unit) then the 6 screws attaching the back case to the tank. Once inside you will see the pump, switch, and circuit board are all connected by a wiring harness. To run a quick test, with a battery in and the unit switched on to high flow, just trying jiggling each wire individually to see if the motor will turn on. That is a fast way of isolating the issue to one specific wire. – Before you go to do this, make sure the sprayer has depressurized by pulling the trigger on the gun while the sprayer is off. If the unit were to stay pressurized, you won't hear the motor running which we need to hear to make sure we have regained the connection.

Here is a video link to go along with the pictures, showing the process of re crimping the wires if that is the case. First I would try doing this to the 3 wires attached to the rocker switch. After that you can also check the crimps that go into the wiring harness by pushing on the silver tab to release them from the white plastic harness, re-crimping them, and putting them back into the harness.

Please feel free to reach out to us with any questions.

Harness Wiring Repair: **Watch Now**

Switch Wiring Repair: **Watch Now**

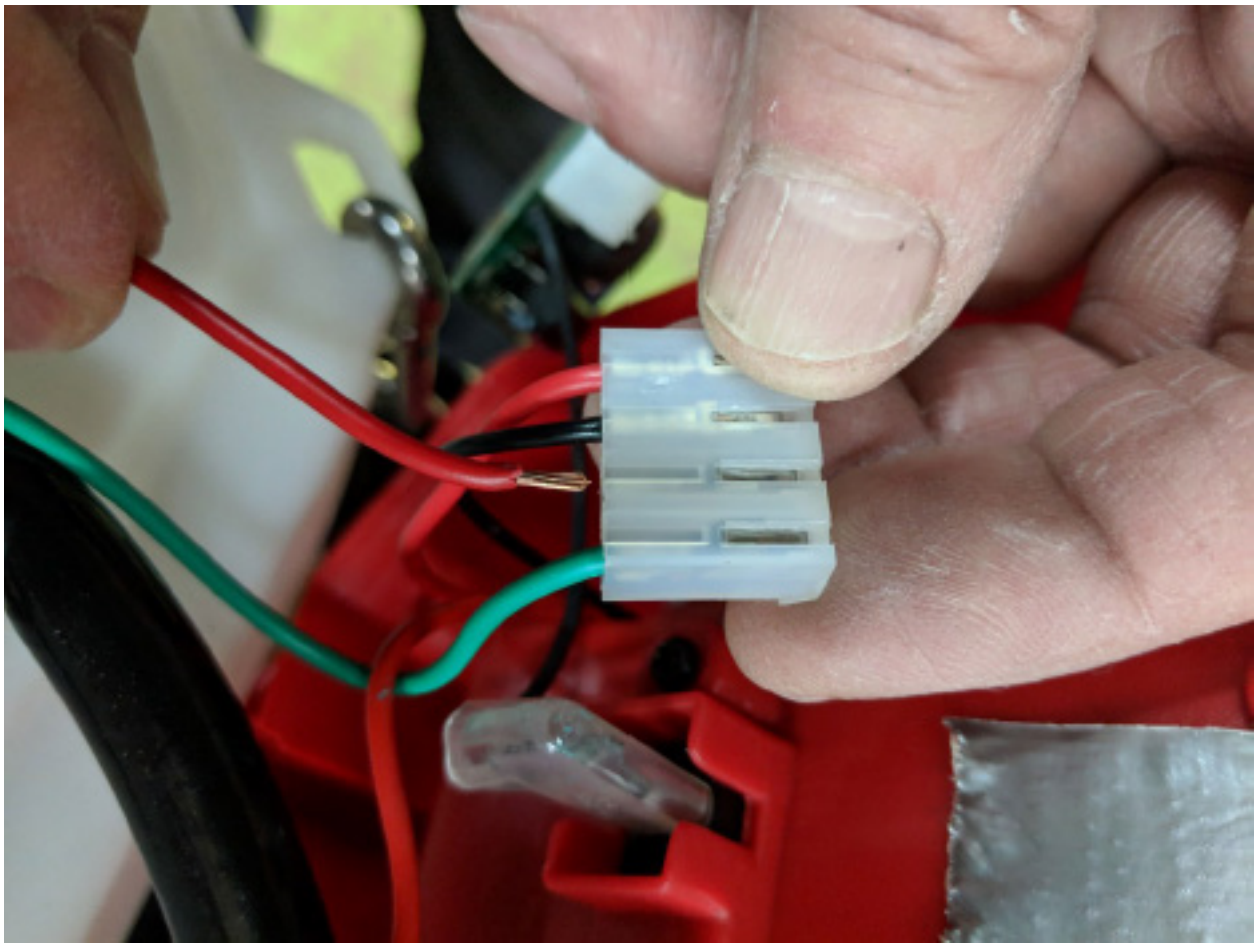

Figure 1: Wires may be loose but still attached to silver connector or loose like shown in this picture.

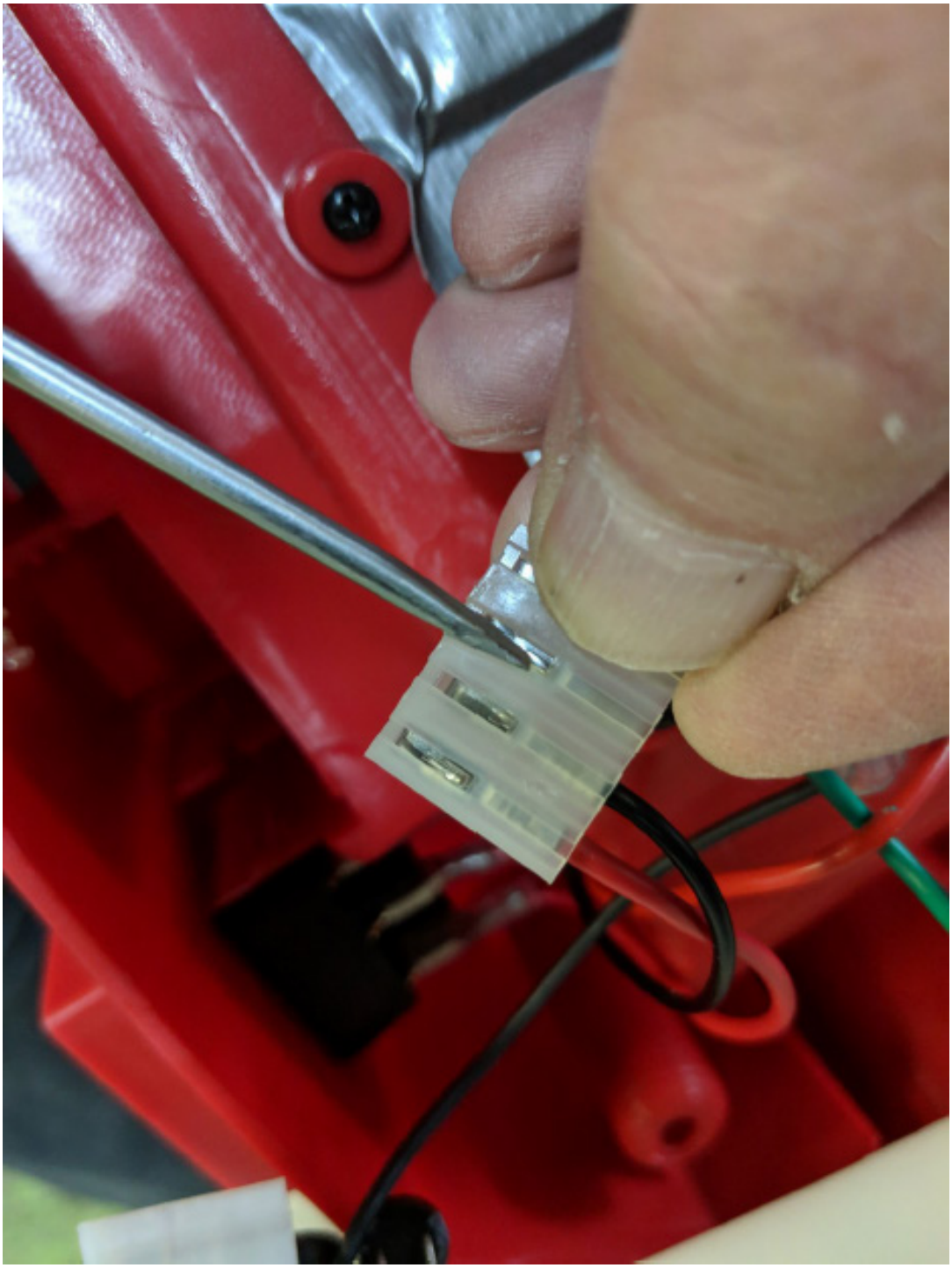

Figure 2: Remove the Silver Connector with a slotted screwdriver.

Figure 3: Push in using the screwdriver to release the connector, it can then be taken out from the bottom of the wiring harness.

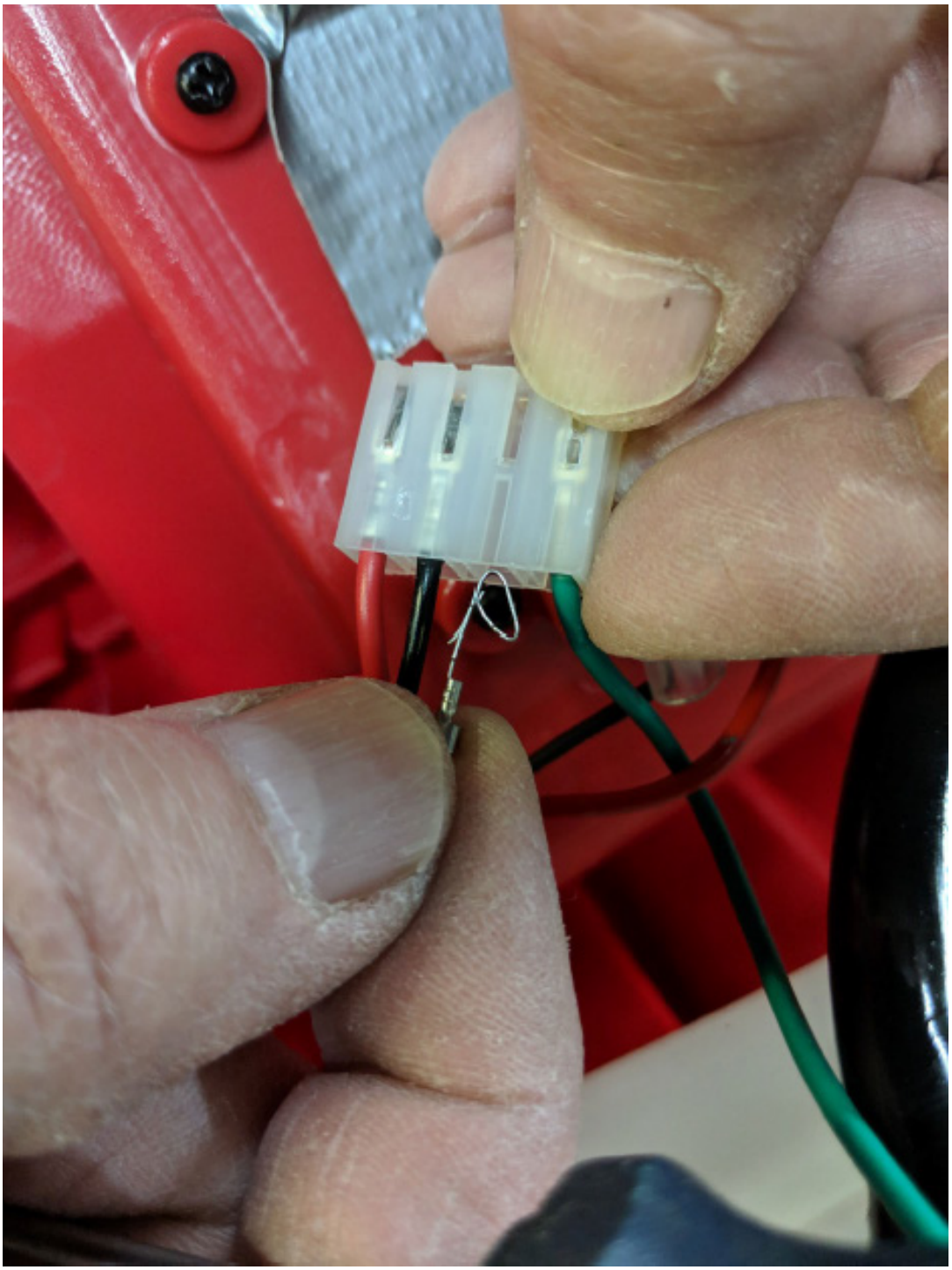

Figure 4: Silver Connector.

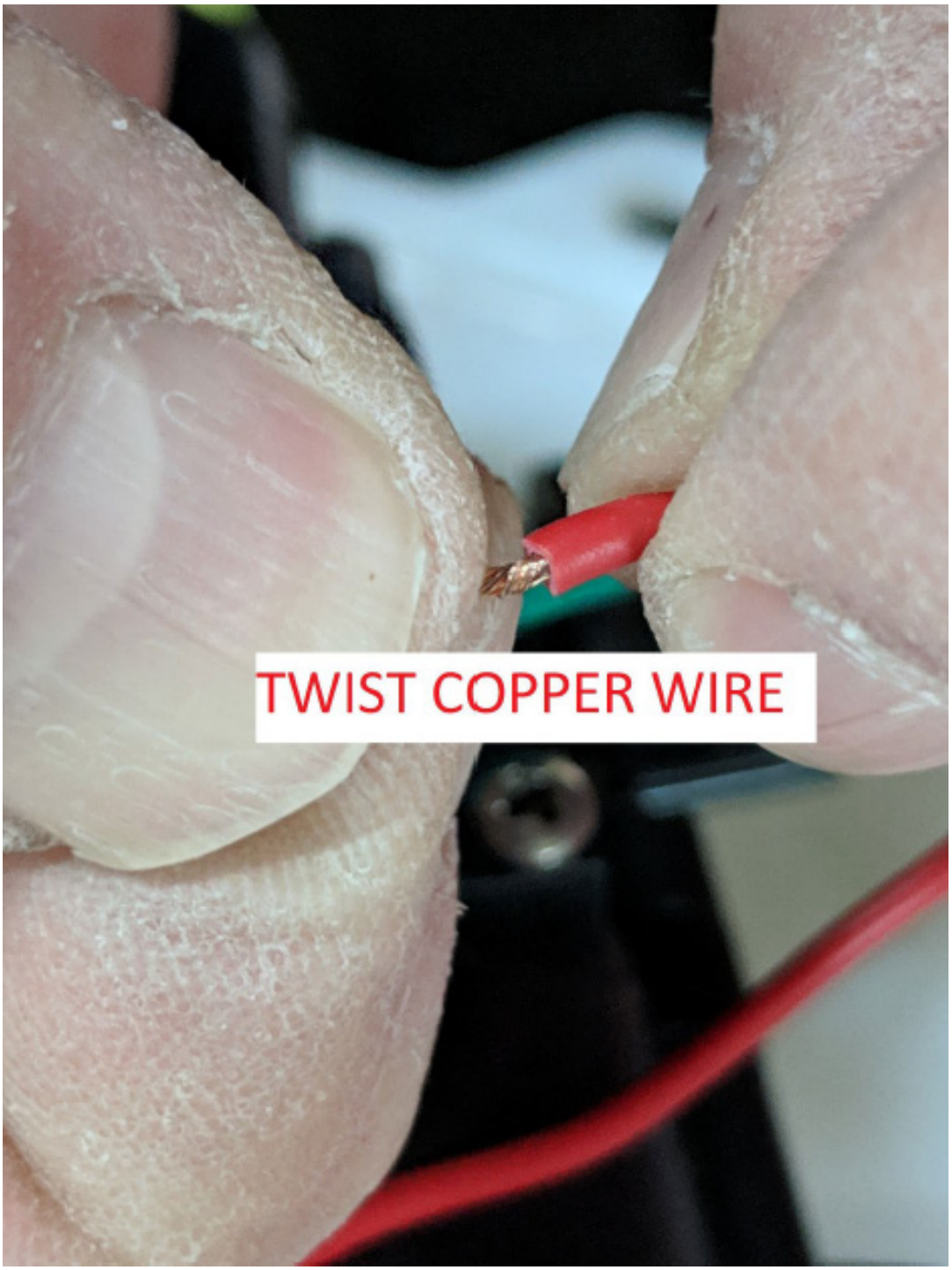

Figure 5: Twist copper wire for best results when re-crimping.

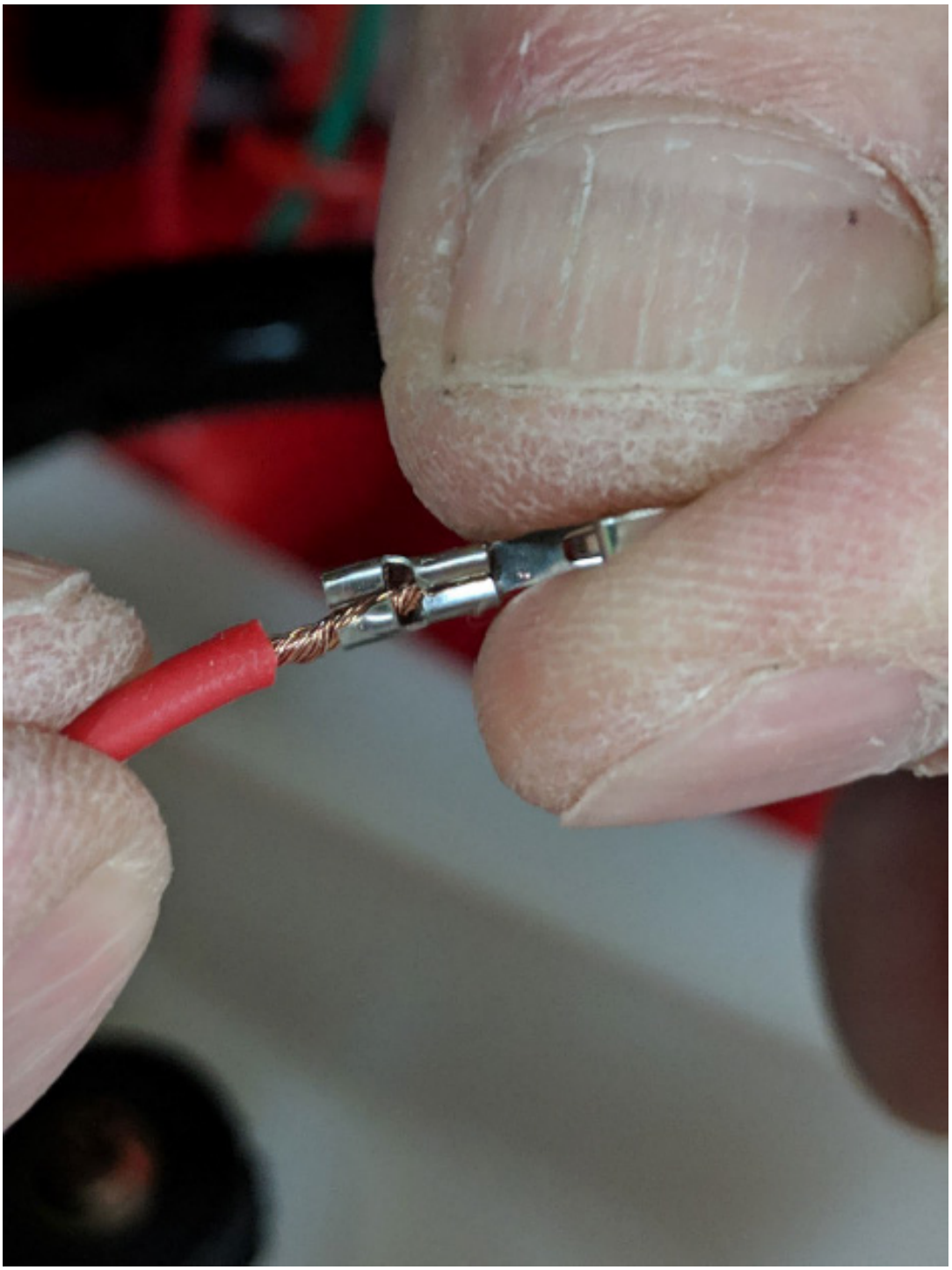

Figure 6: Place the wire back into the bottom of the connector.

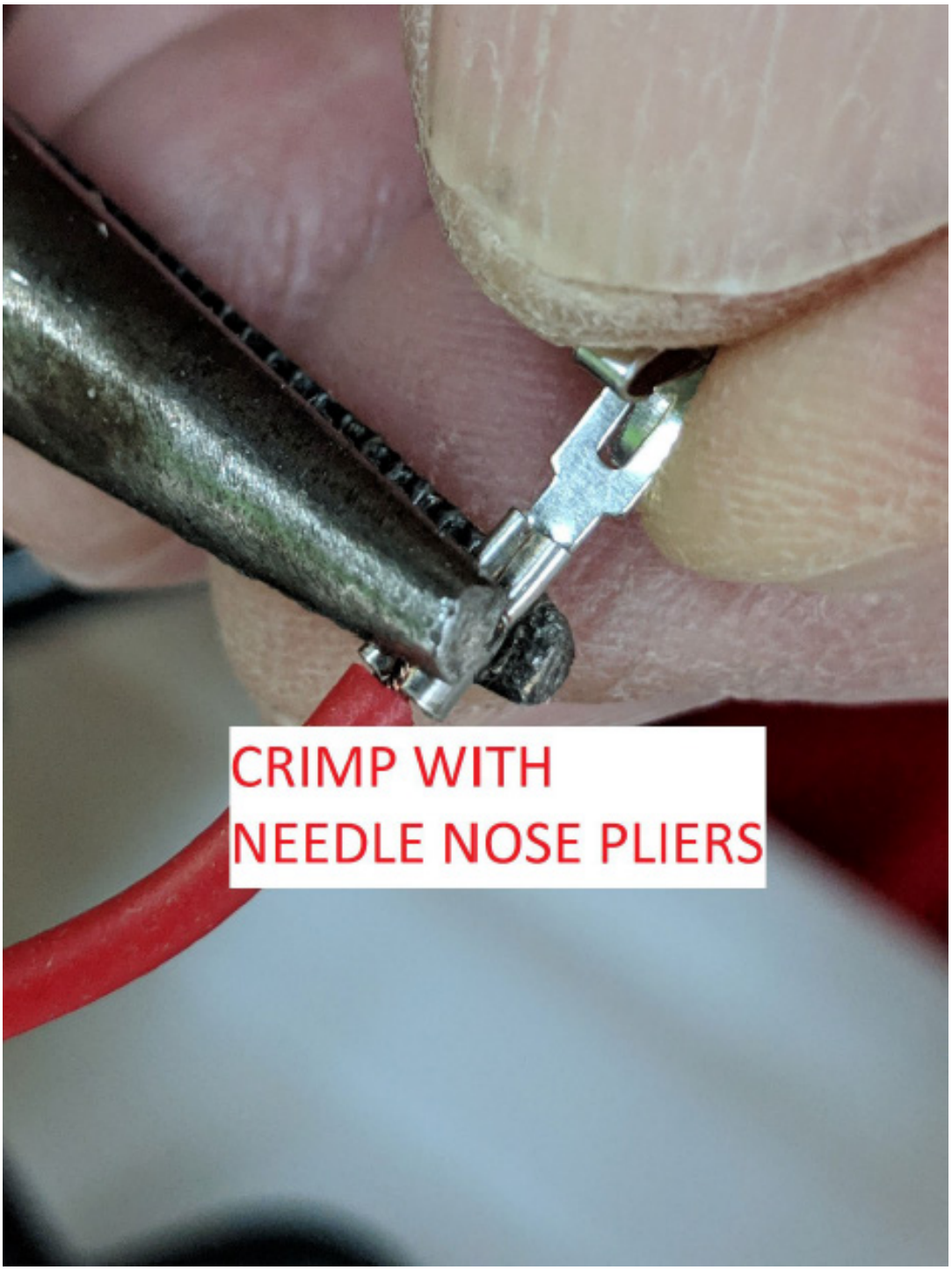

Figure 7: Crimp down on the connection to hold the copper wire against the silver connector.

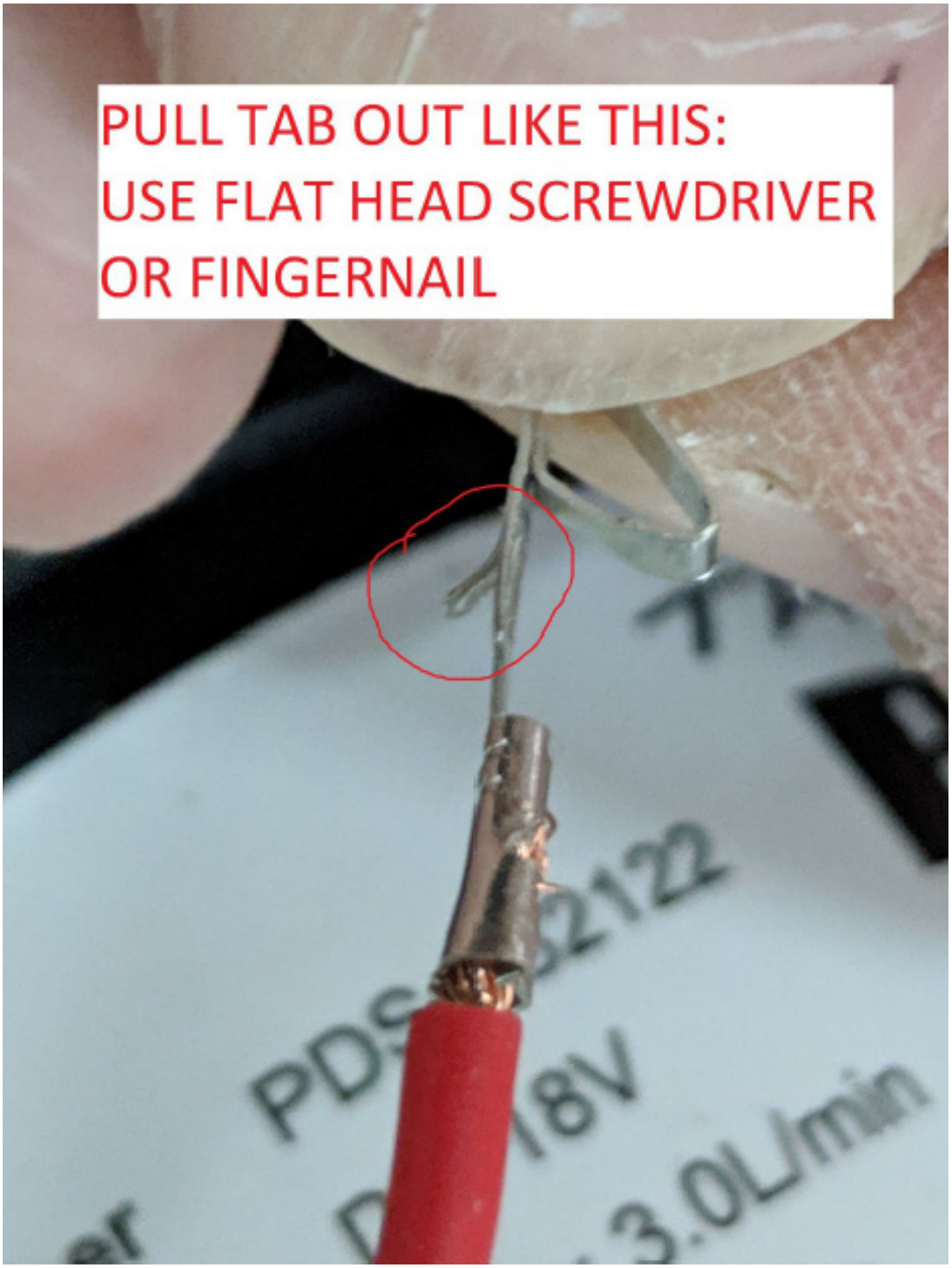

Figure 8: Pulling the small tab out will help the connector seat firmly back into the plastic wiring harness.

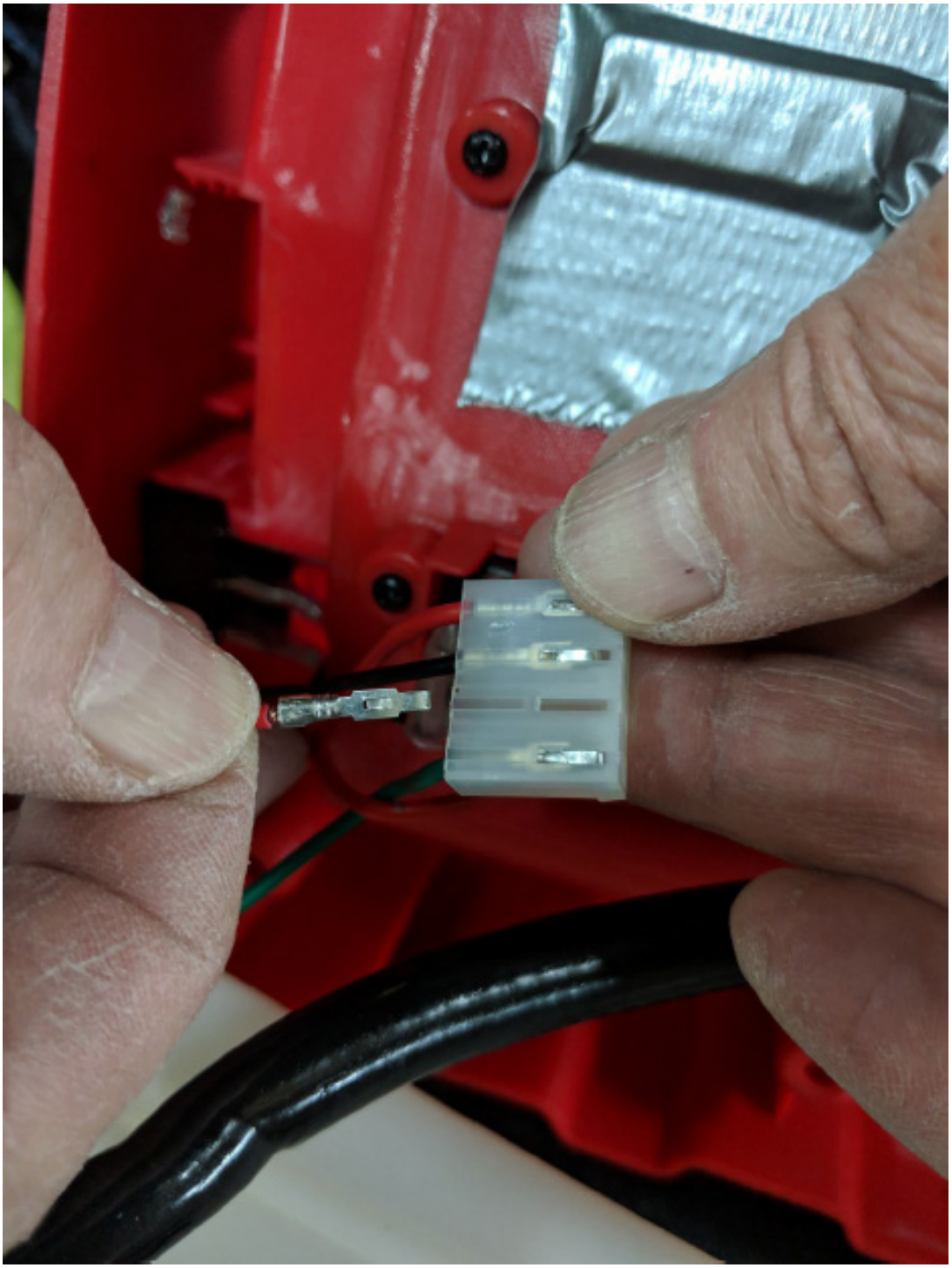

Figure 9: Push the wire back into the wiring harness making sure that the small tab is facing up towards the cut-out in the plastic harness.

Figure 10: Once back in place, the small tab will click. Once in place, it should not be able to pull back out.