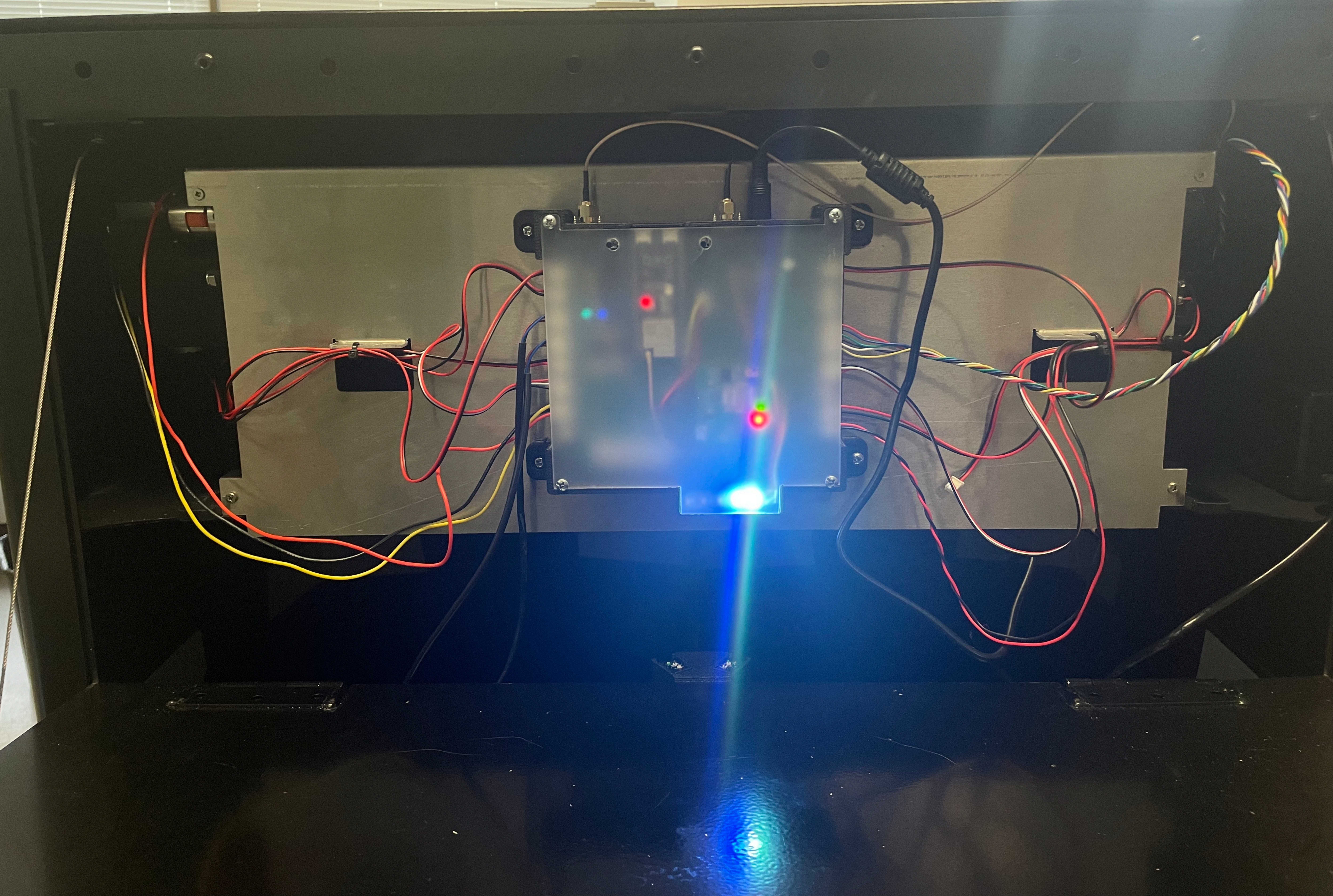
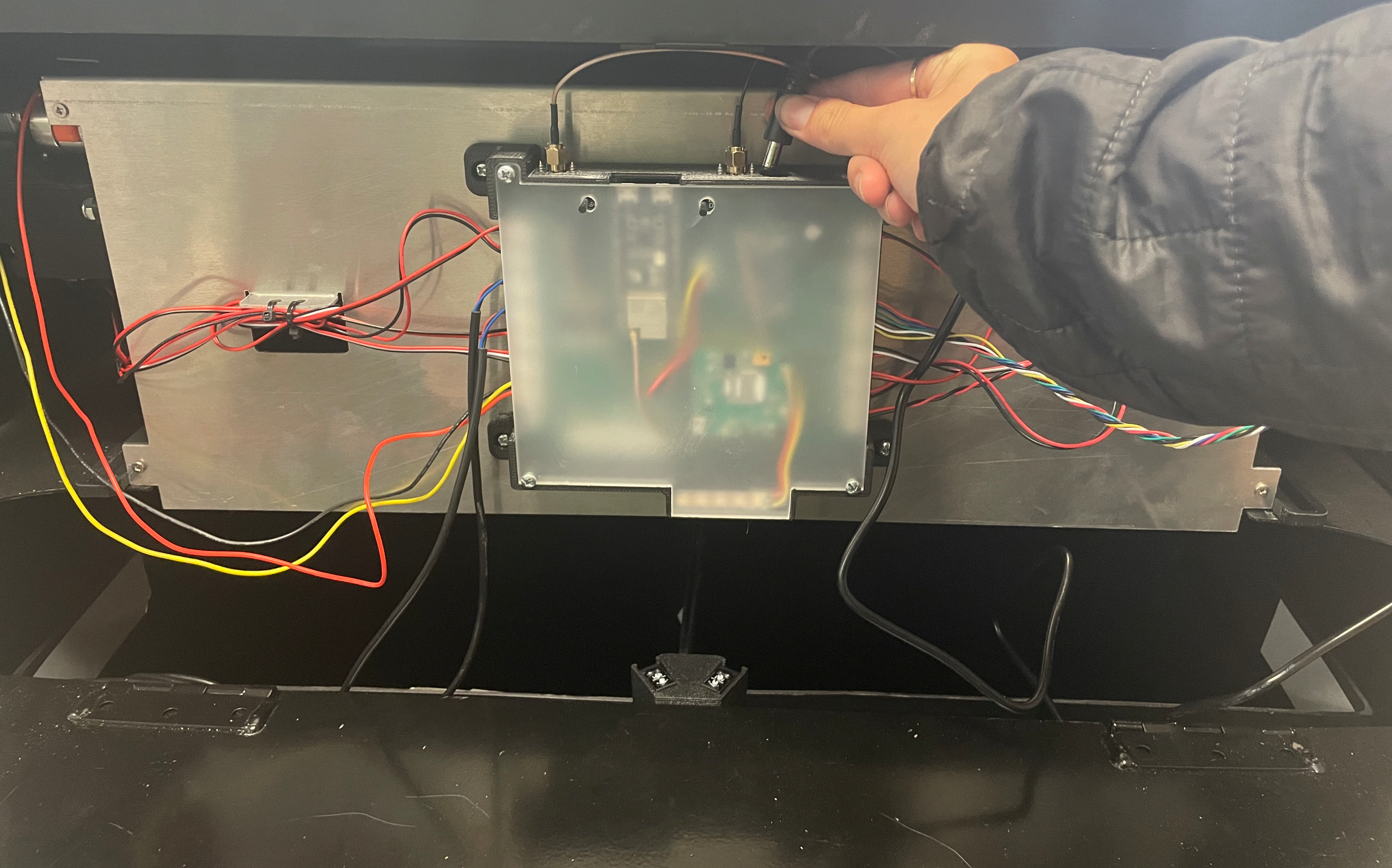


This guide directs how to swap a “mainframe” on a Reusables.com Smart Return Bin (SRB). The mainframe is the “brains and guts” of the unit. This aluminum frame houses most electronic parts. To access it, open the rear hatch of the SRB, and this is what you’ll see. Your cables will be more neatly organized.



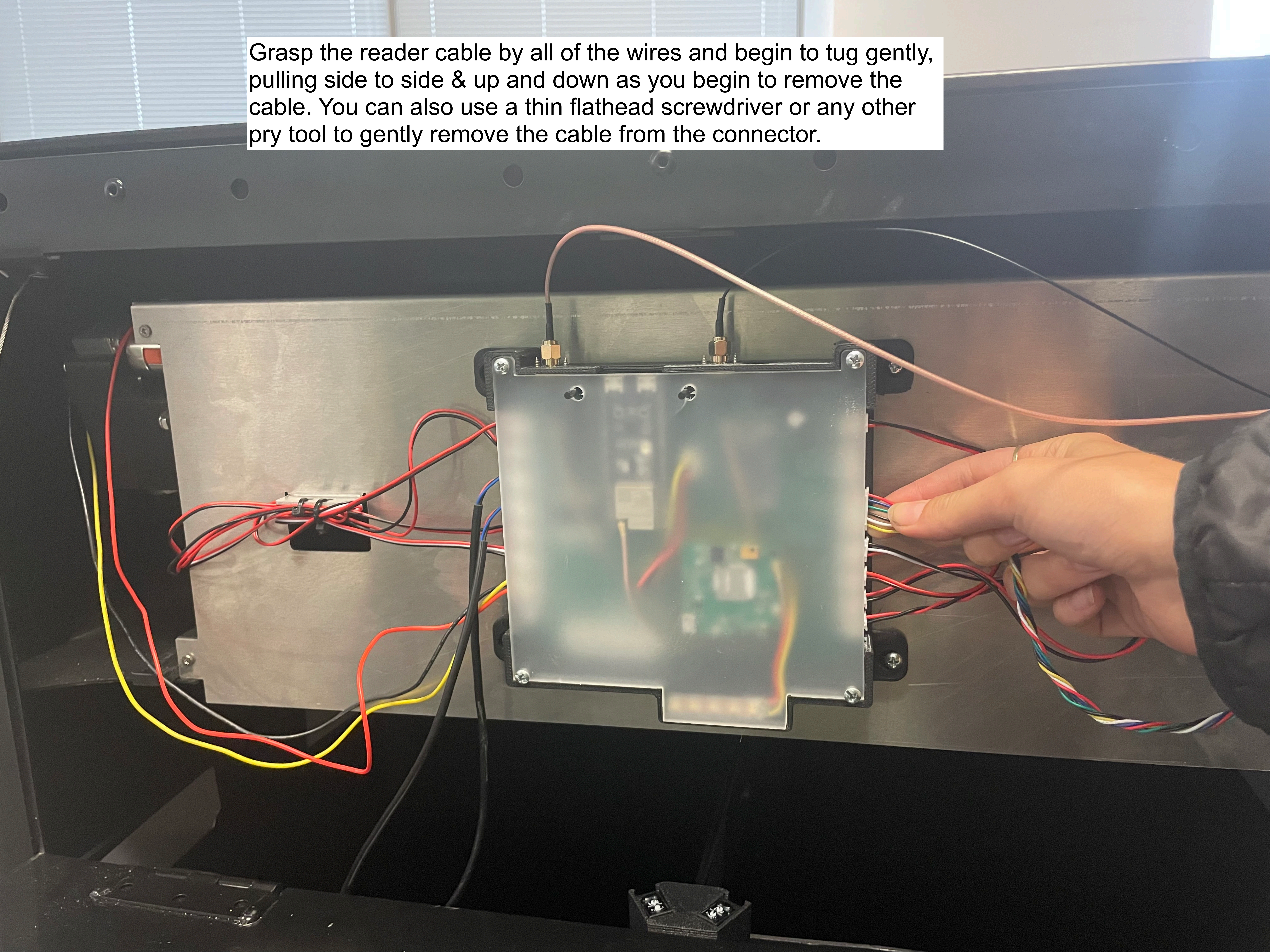
First, unplug the power on top of the PCB as shown.



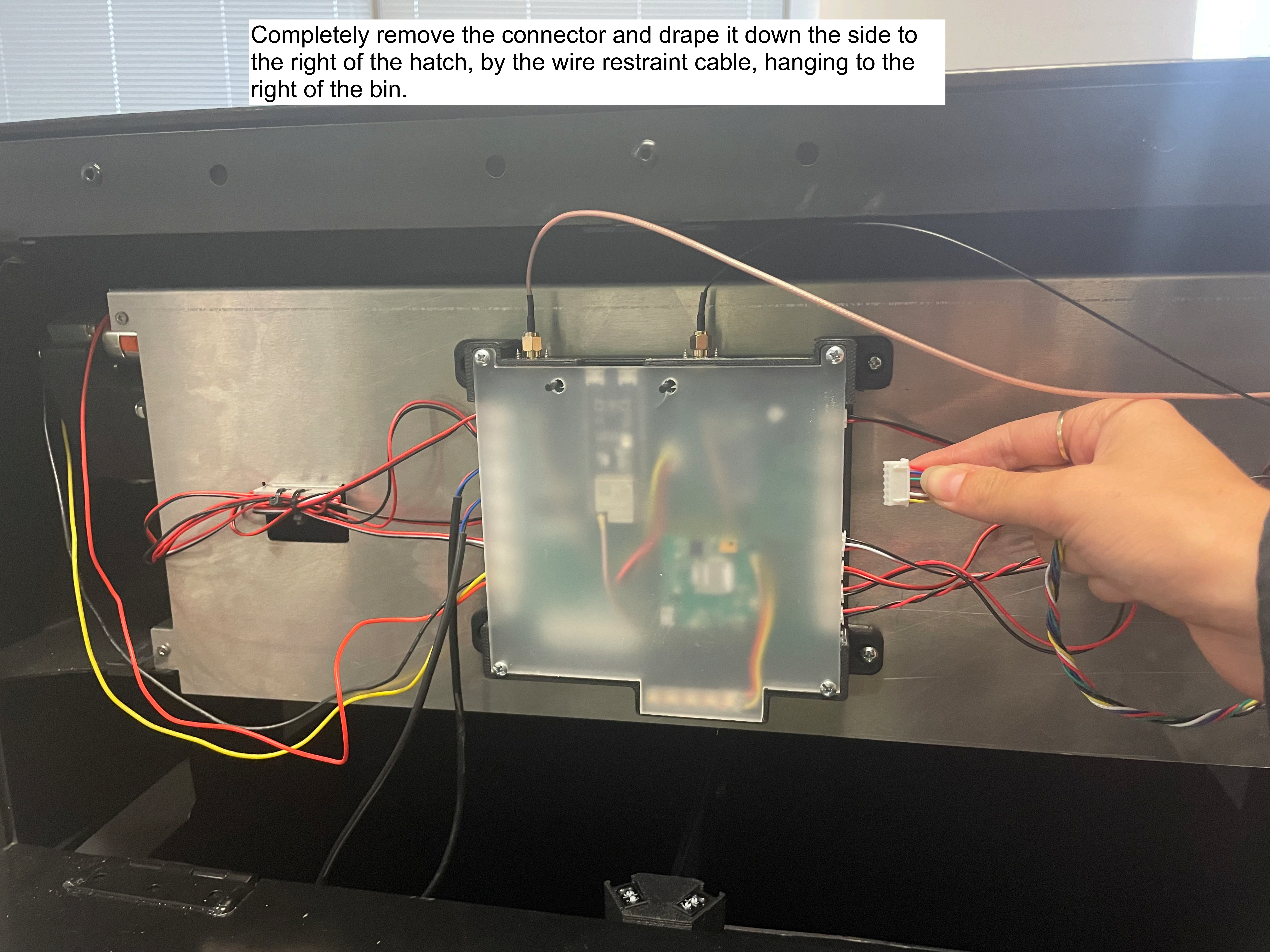
Next, locate the 6-pin QR code reader cable (this may also be an RFID reader cable in some models, which is 5-pin)



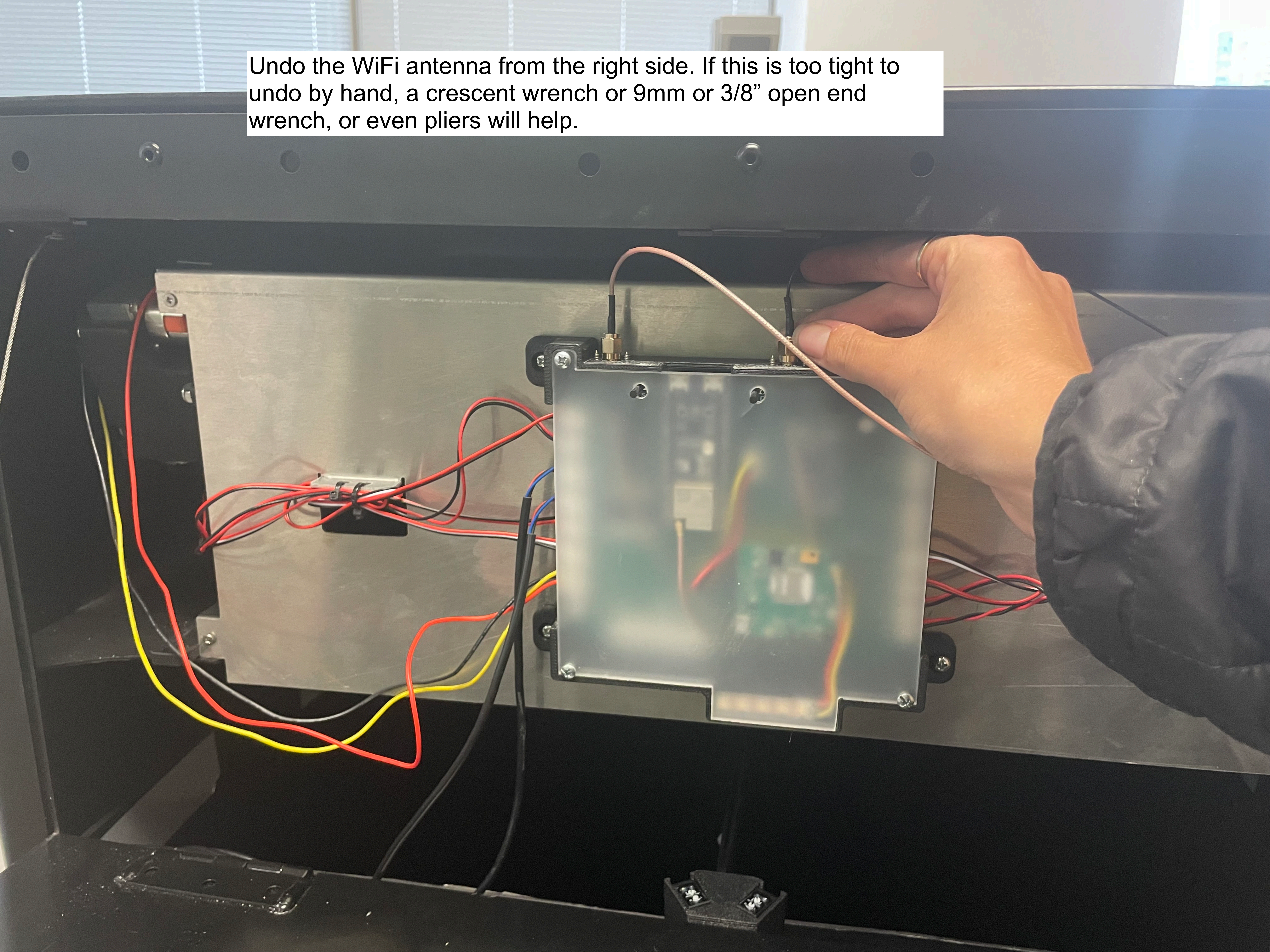
Grasp the reader cable by all of the wires and begin to tug gently, pulling side to side & up and down as you begin to remove the cable. You can also use a thin flathead screwdriver or any other pry tool to gently remove the cable from the connector.



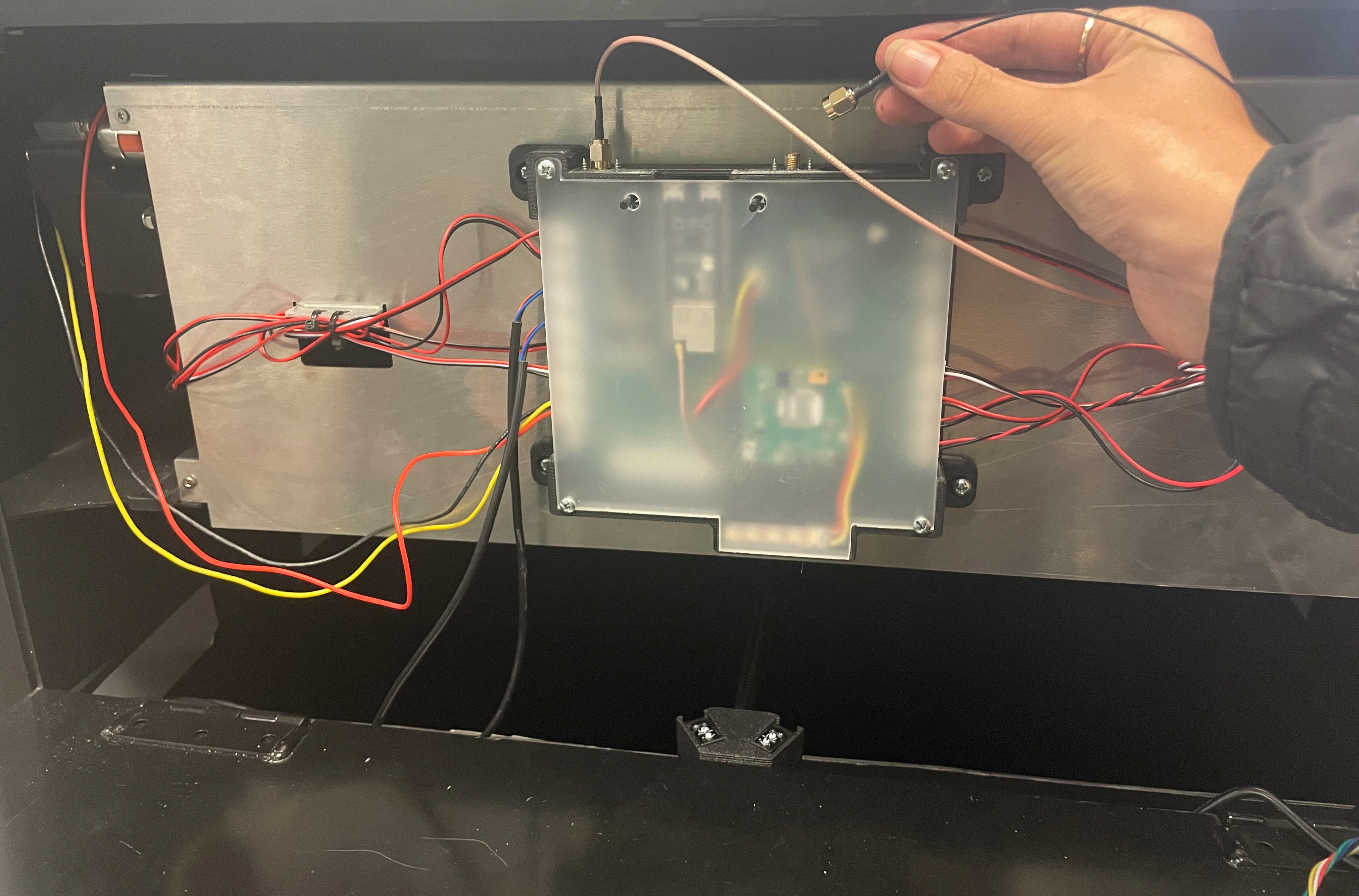
Completely remove the connector and drape it down the side to the right of the hatch, by the wire restraint cable, hanging to the right of the bin.



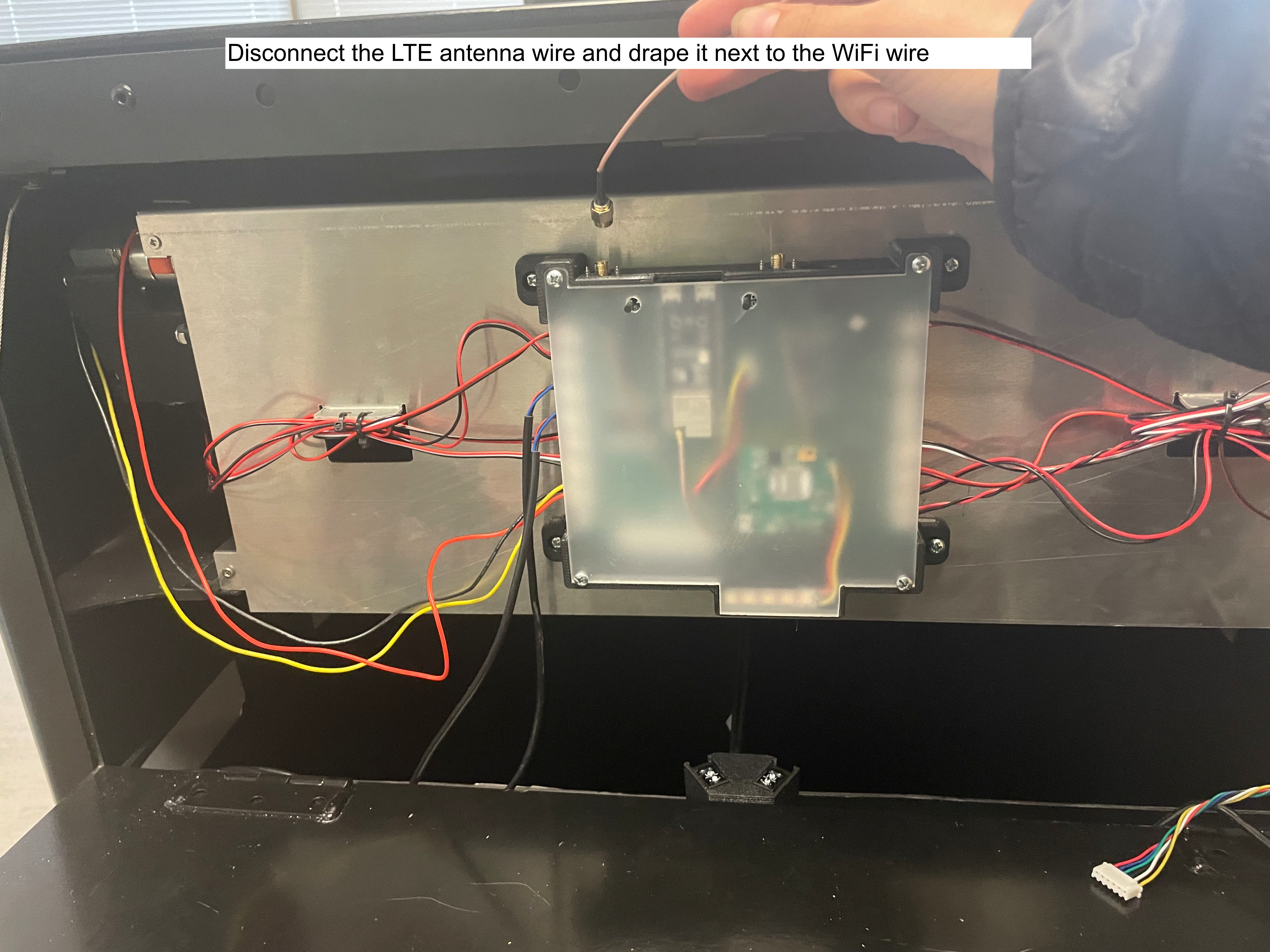
Undo the WiFi antenna from the right side. If this is too tight to undo by hand, a crescent wrench or 9mm or 3/8" open end wrench, or even pliers will help.



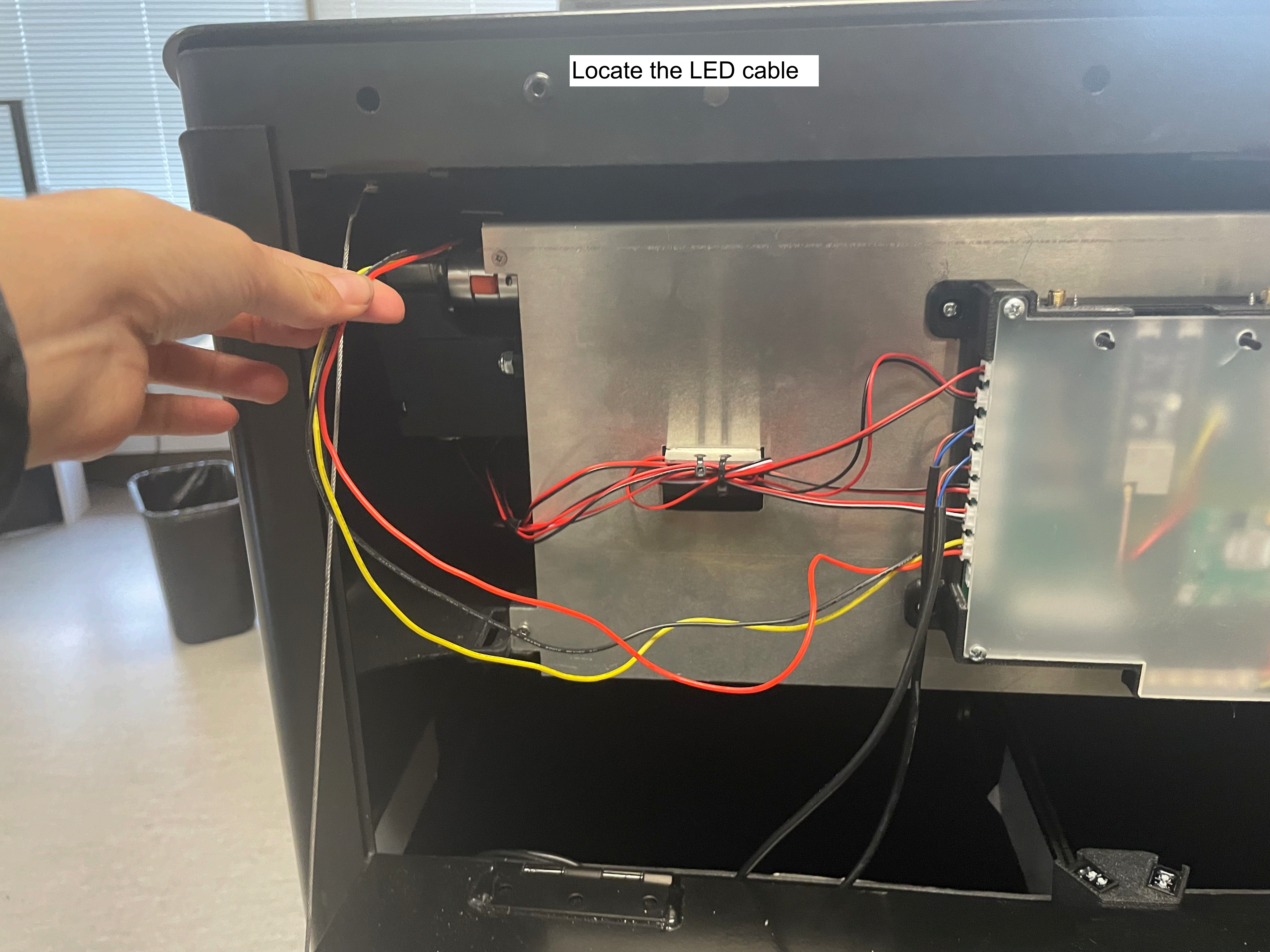
Completely remove this antenna and drape it next to the left side of the hatch, opposite the reader cable from the previous step.



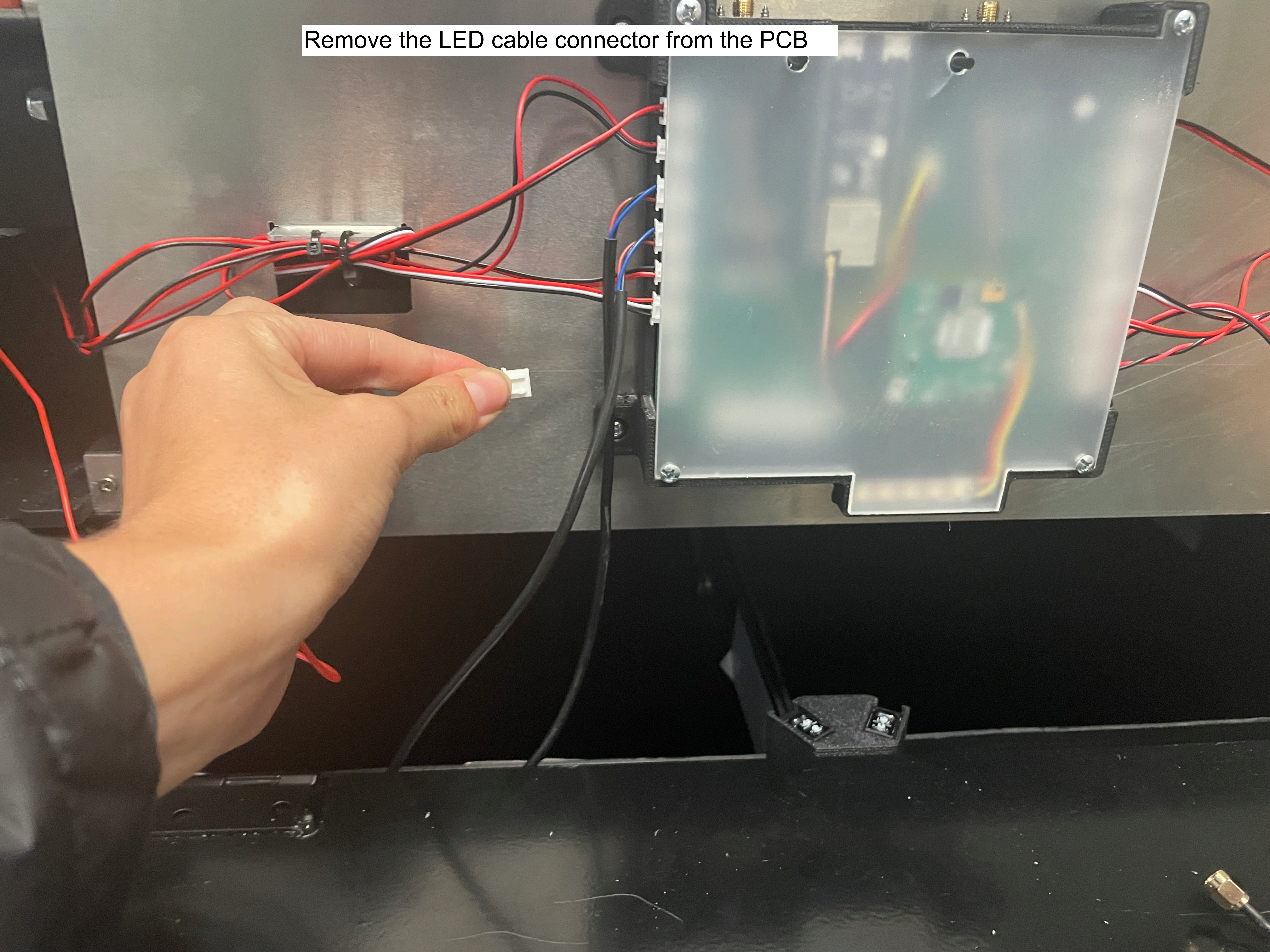
Disconnect the LTE antenna wire and drape it next to the WiFi wire



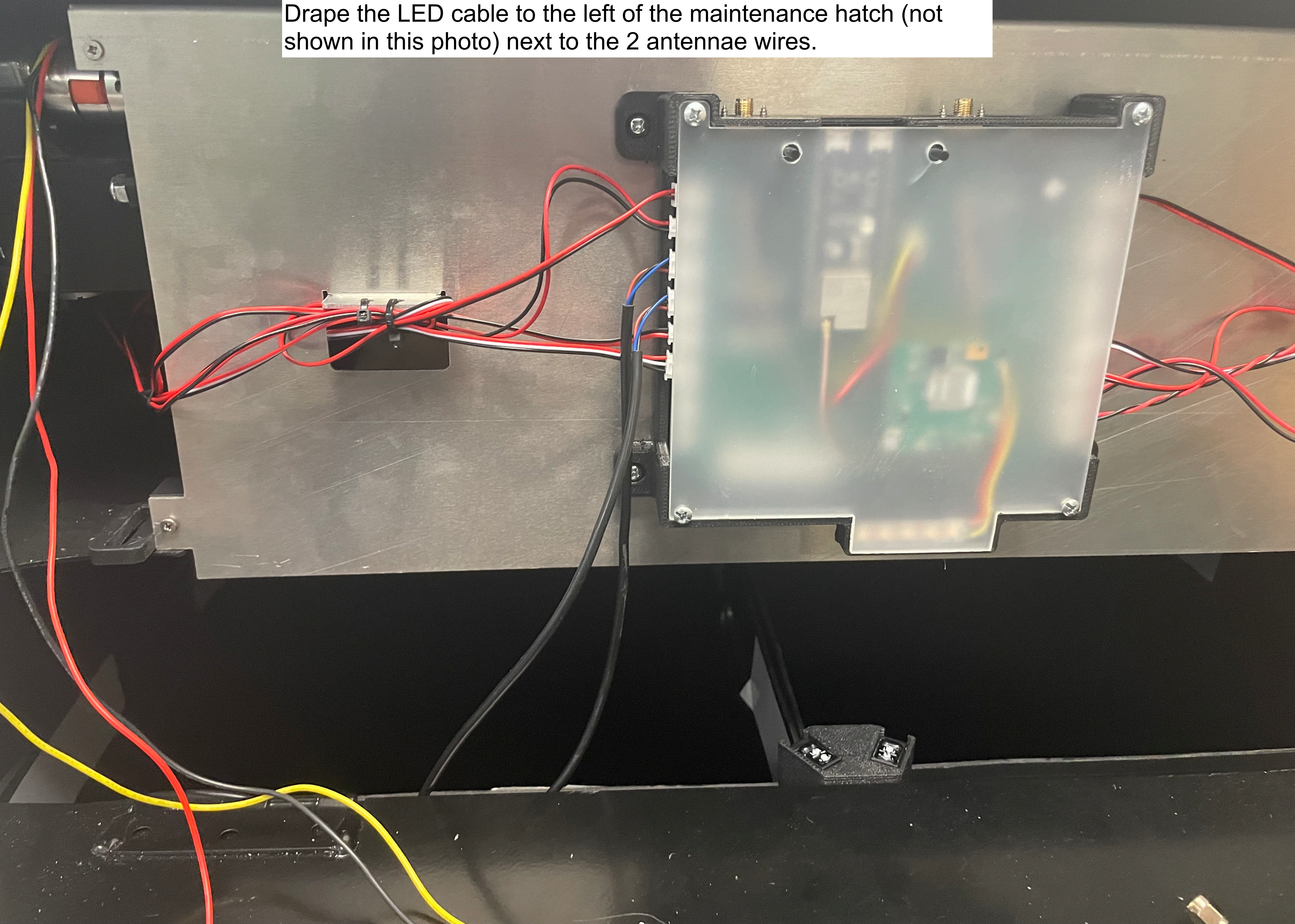
Locate the LED cable



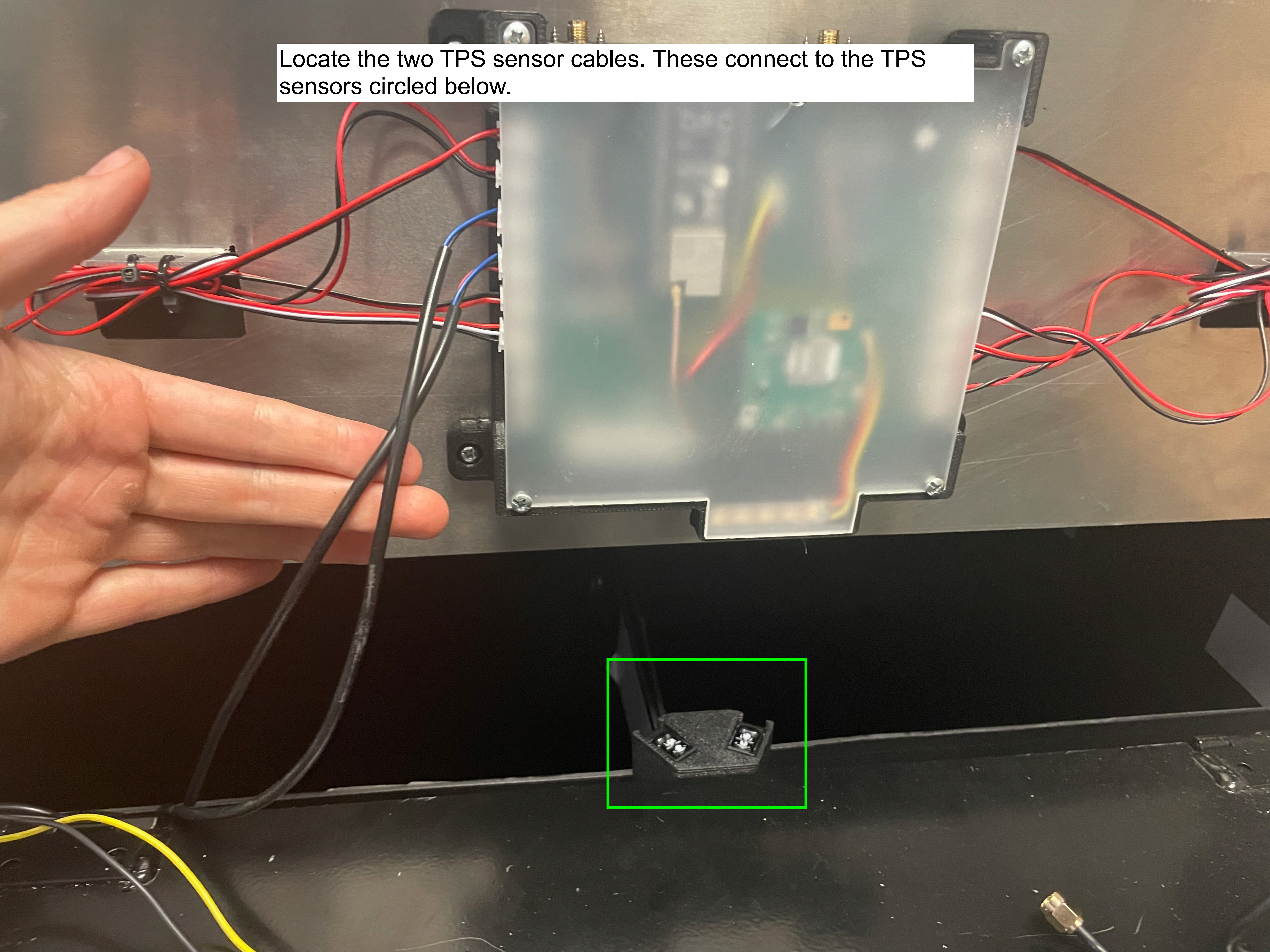
Remove the LED cable connector from the PCB



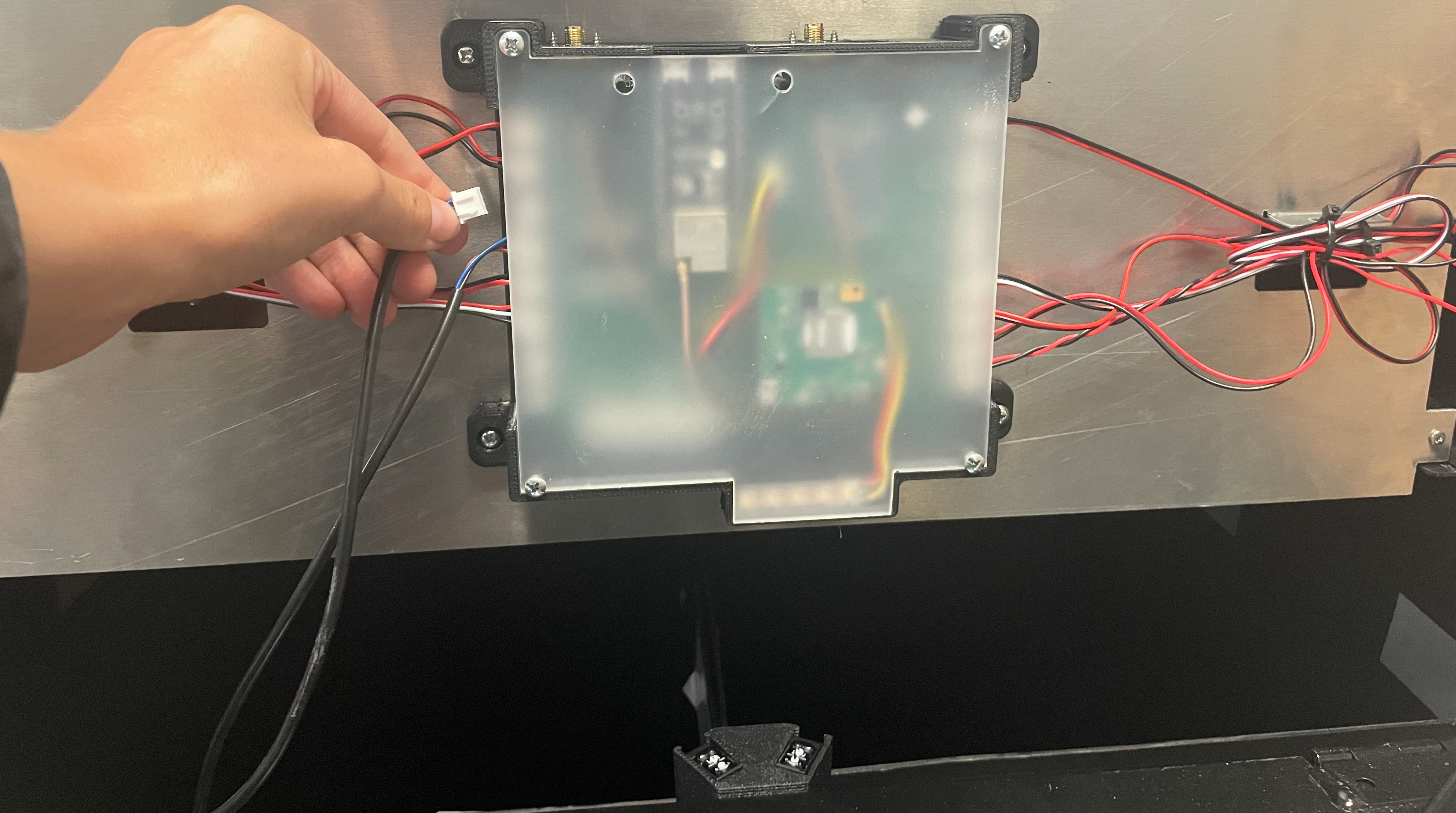
Drape the LED cable to the left of the maintenance hatch (not shown in this photo) next to the 2 antennae wires.



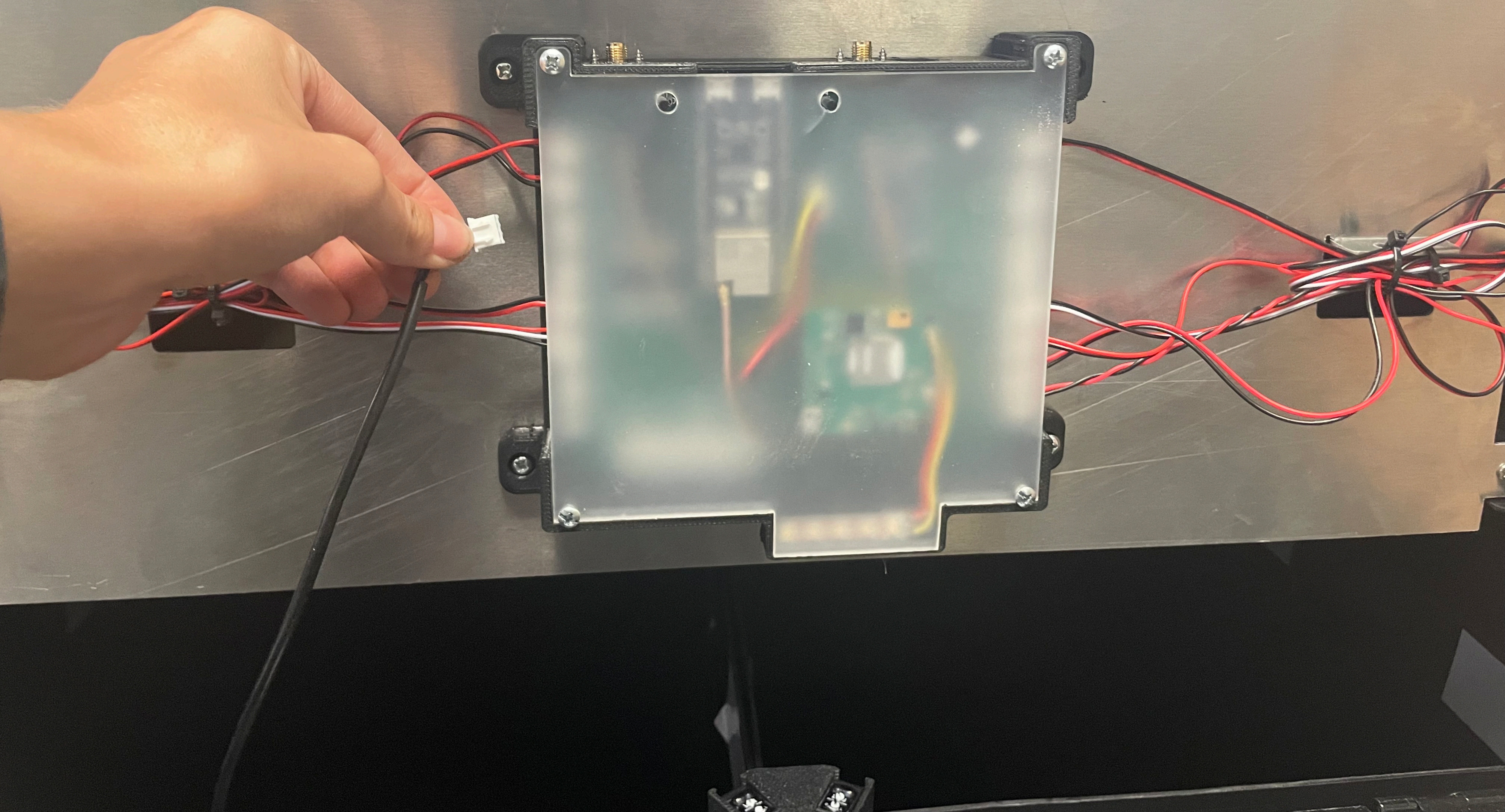
Locate the two TPS sensor cables. These connect to the TPS sensors circled below.



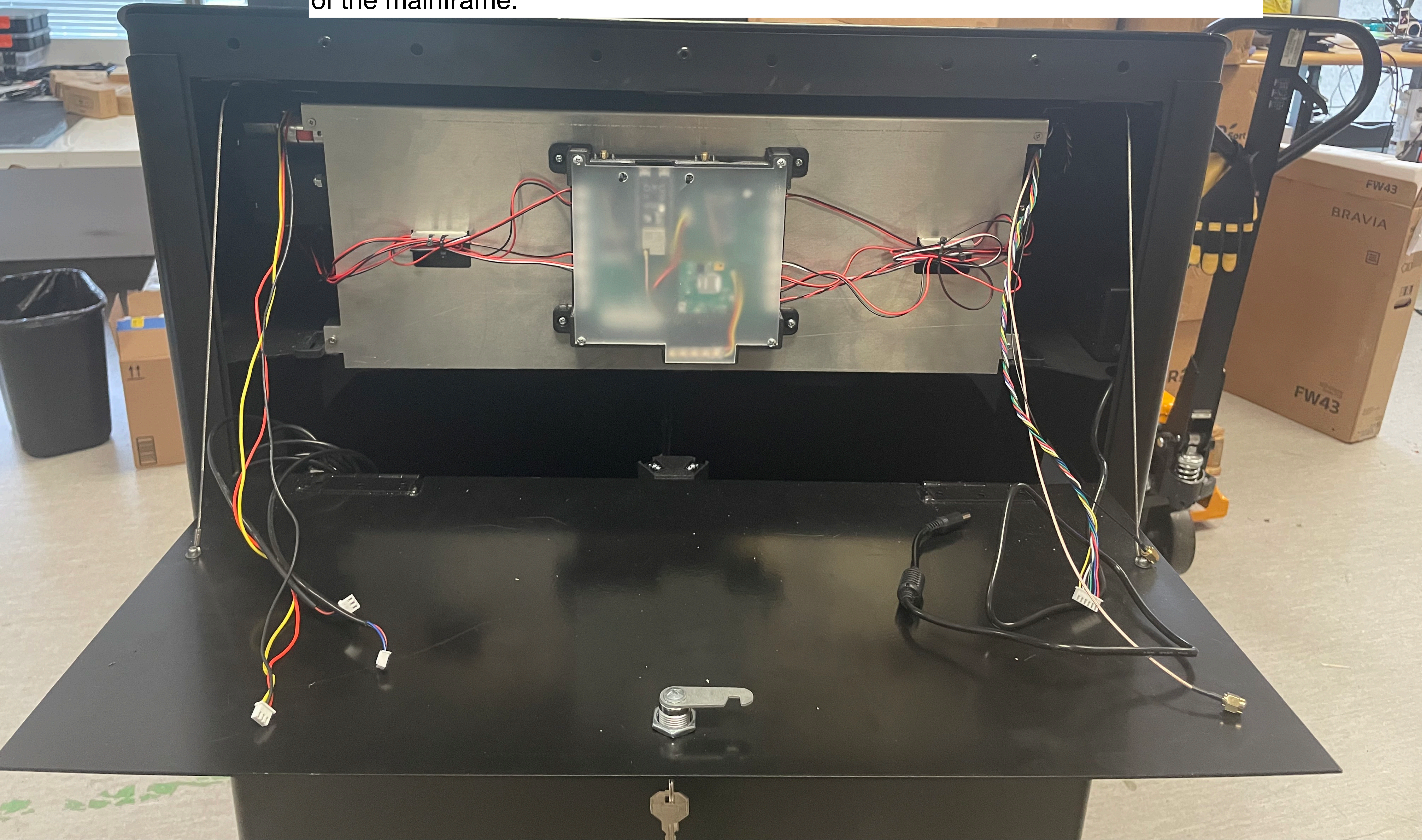
Remove the first TPS sensor cable. Tuck it inside the bin liners.



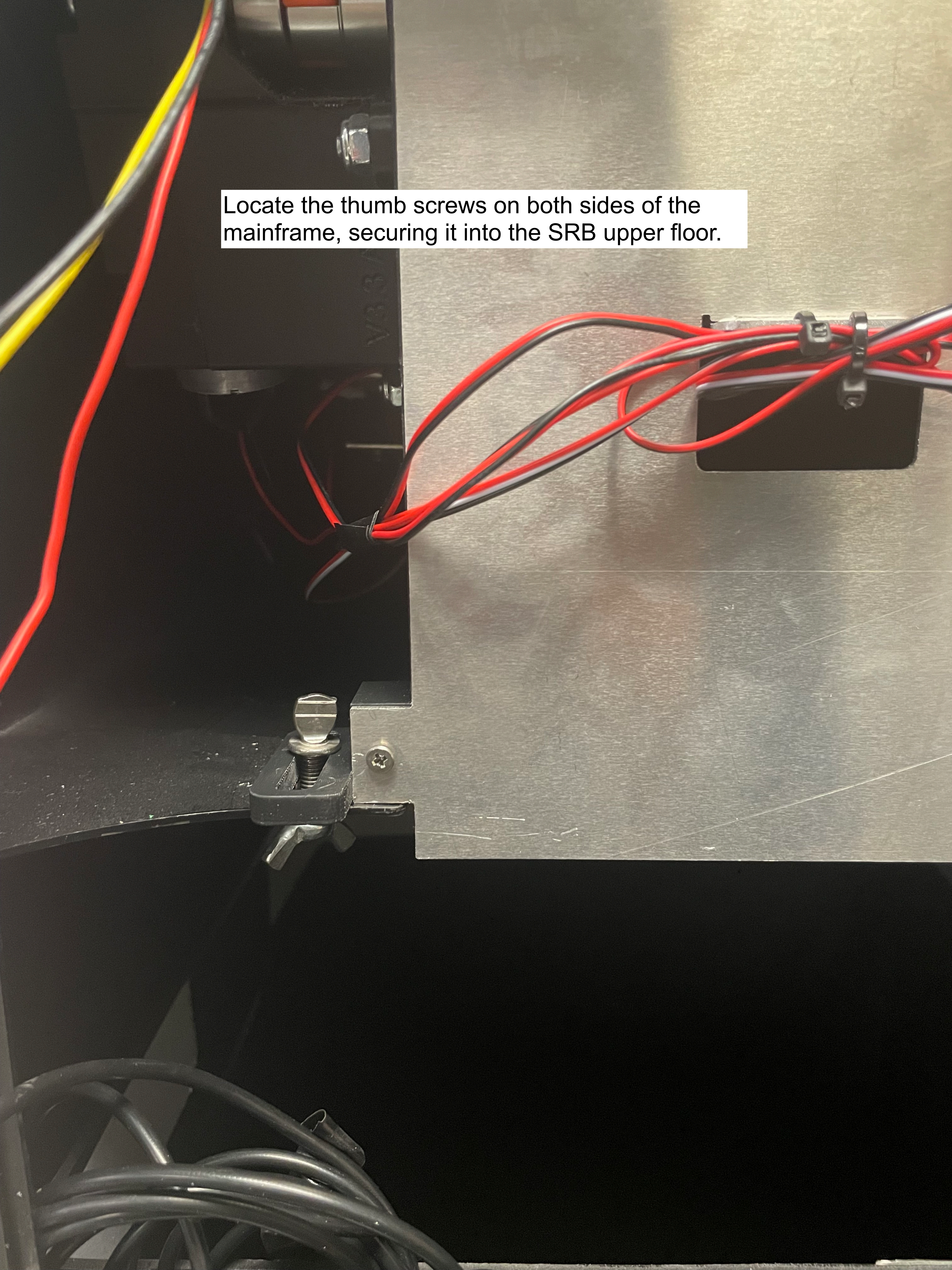
Remove the second TPS sensor cable. Tuck it inside the bin liners as well.



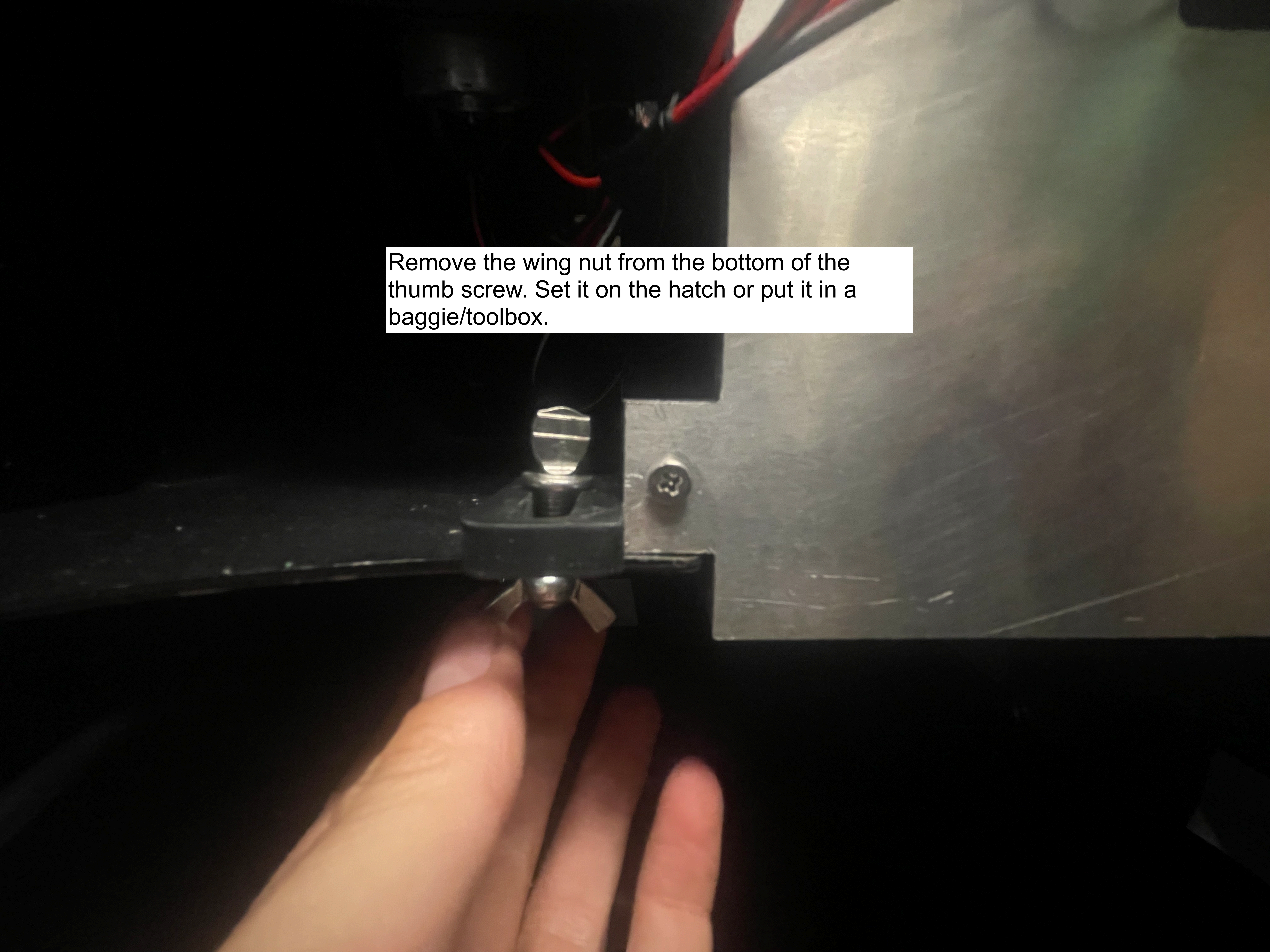
Check that all cables are free and clear. All cables should now be free and clear of the mainframe.



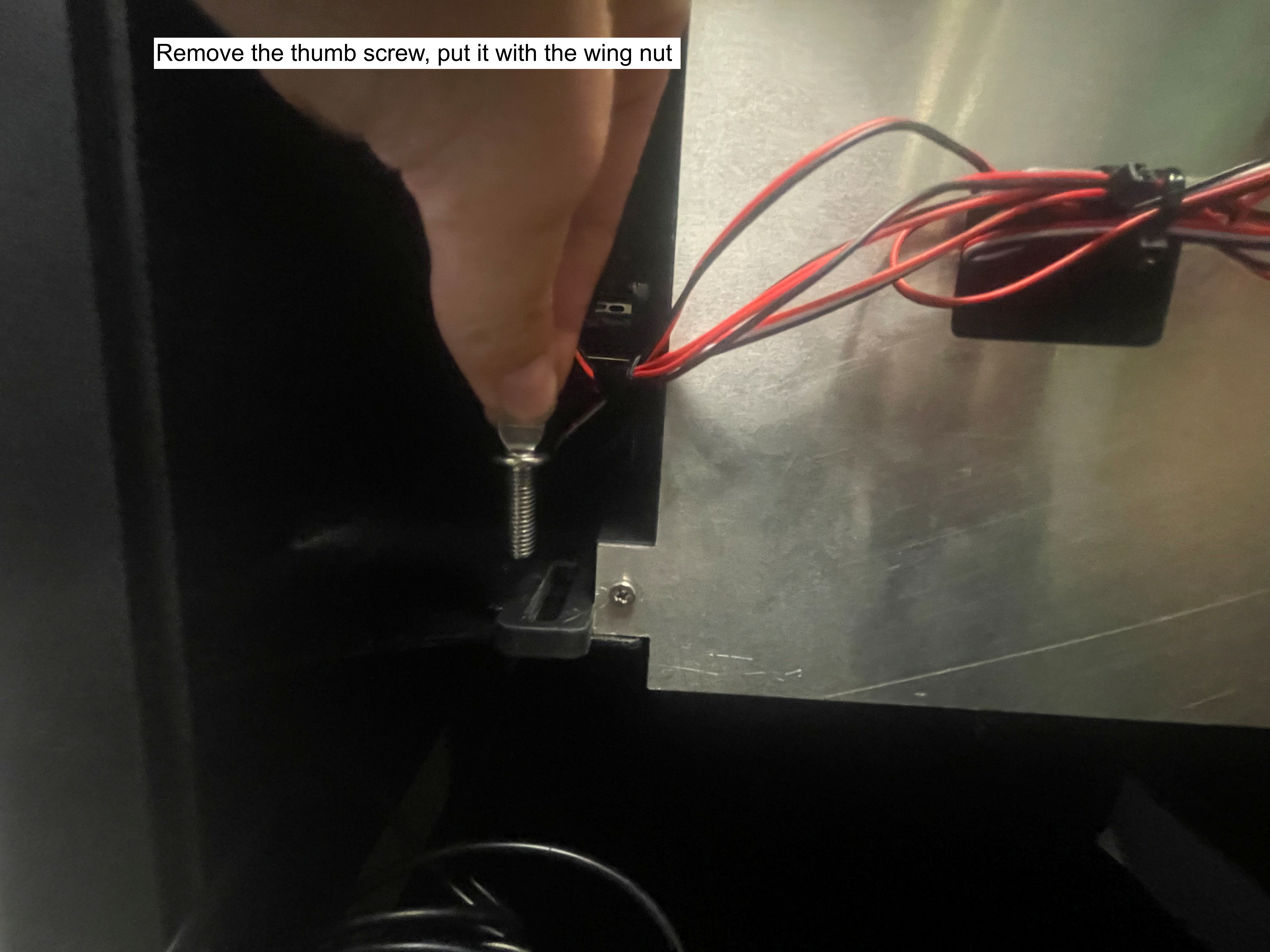
Locate the thumb screws on both sides of the mainframe, securing it into the SRB upper floor.



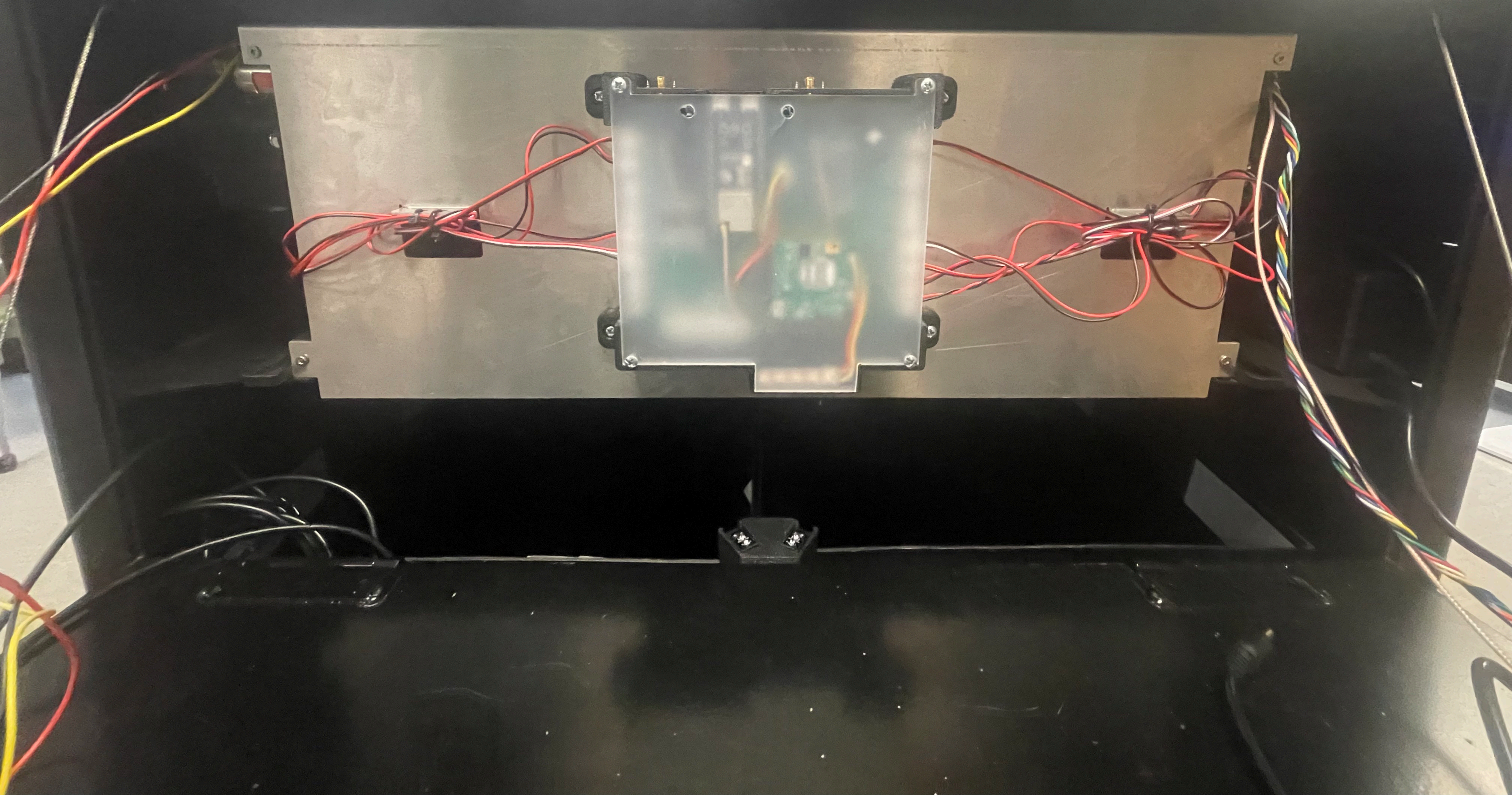
Remove the wing nut from the bottom of the thumb screw. Set it on the hatch or put it in a baggie/toolbox.



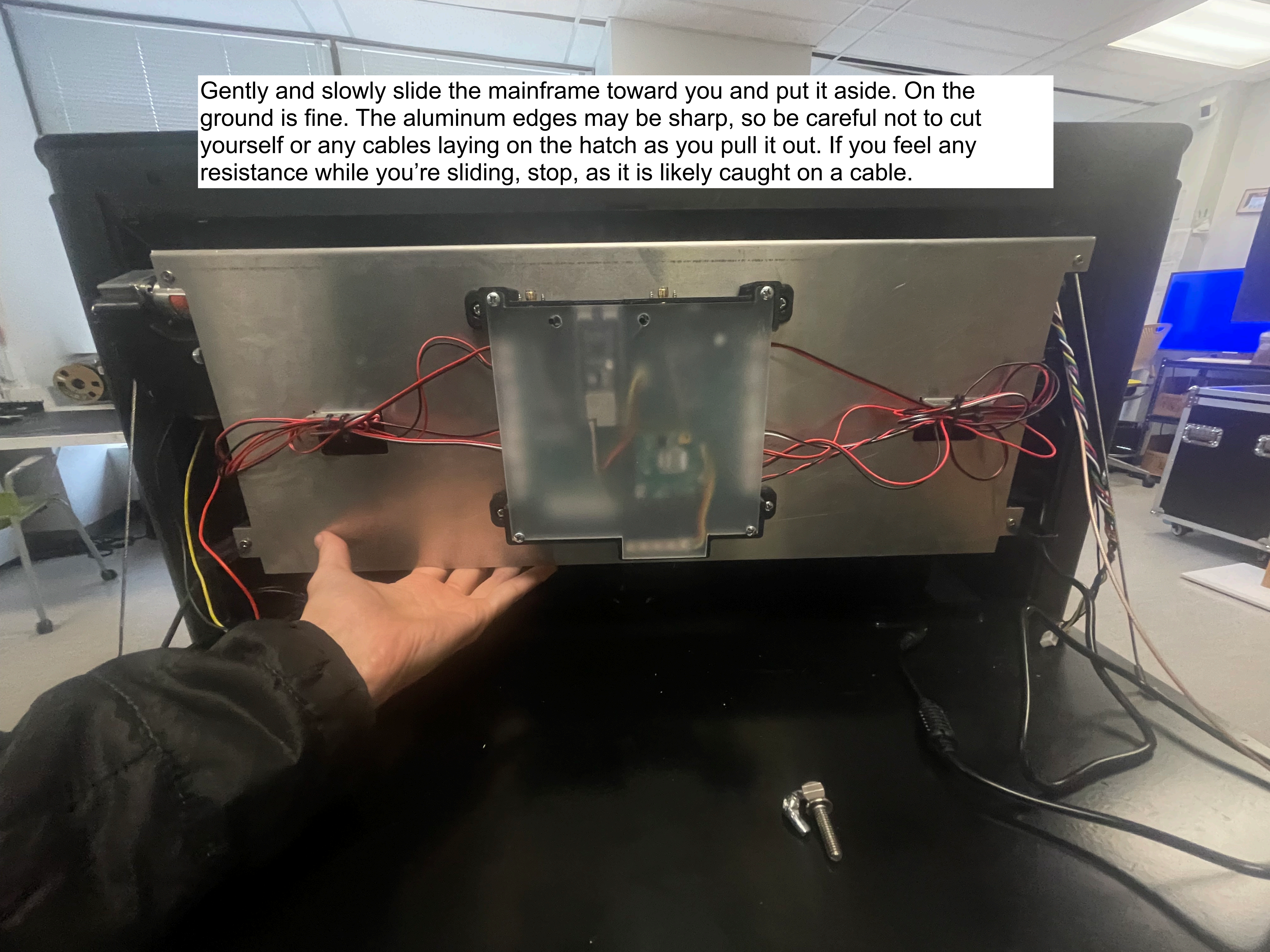
Remove the thumb screw, put it with the wing nut



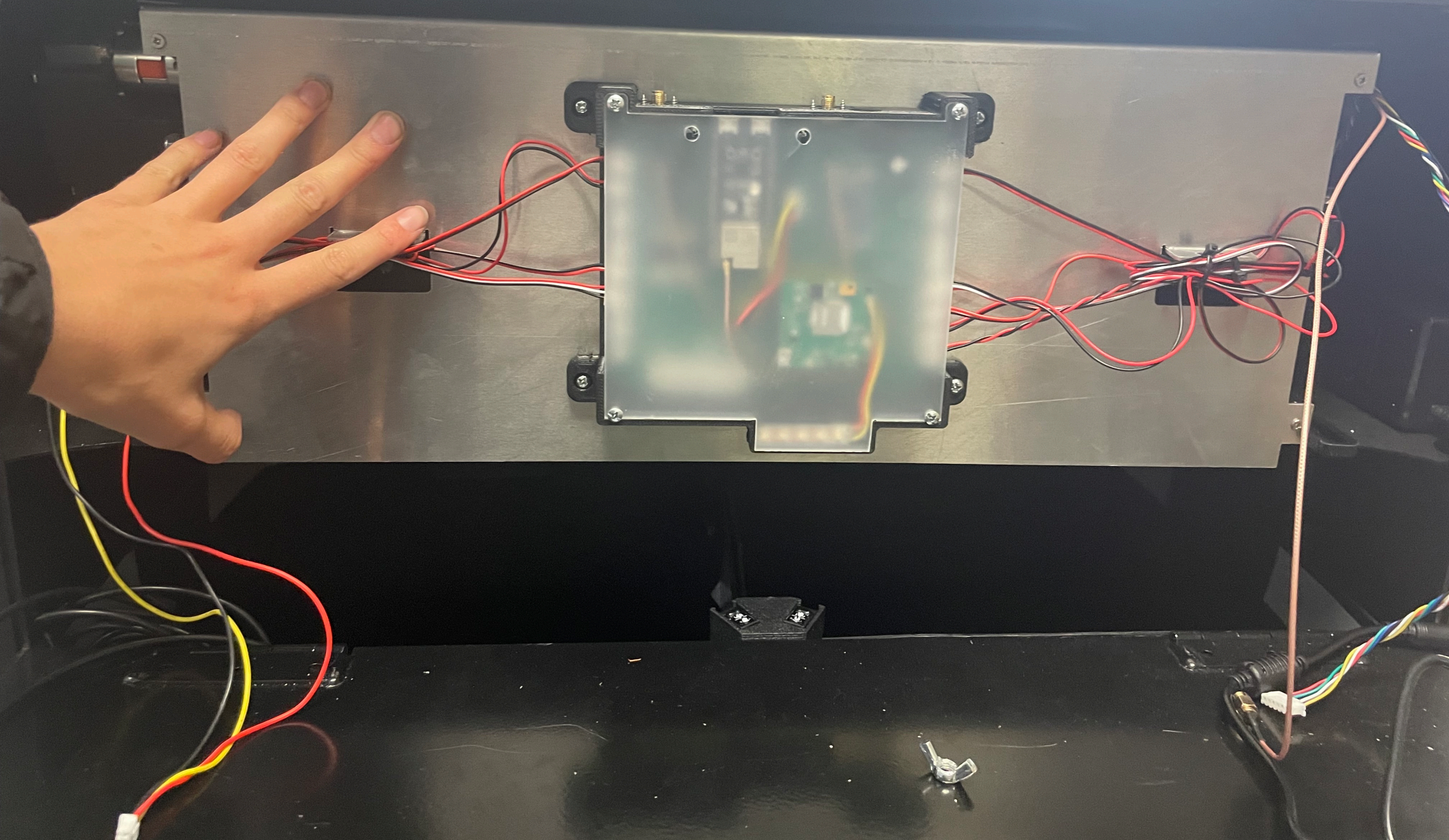
Repeat on the other side of the mainframe, it is now ready to remove.



Gently and slowly slide the mainframe toward you and put it aside. On the ground is fine. The aluminum edges may be sharp, so be careful not to cut yourself or any cables laying on the hatch as you pull it out. If you feel any resistance while you're sliding, stop, as it is likely caught on a cable.



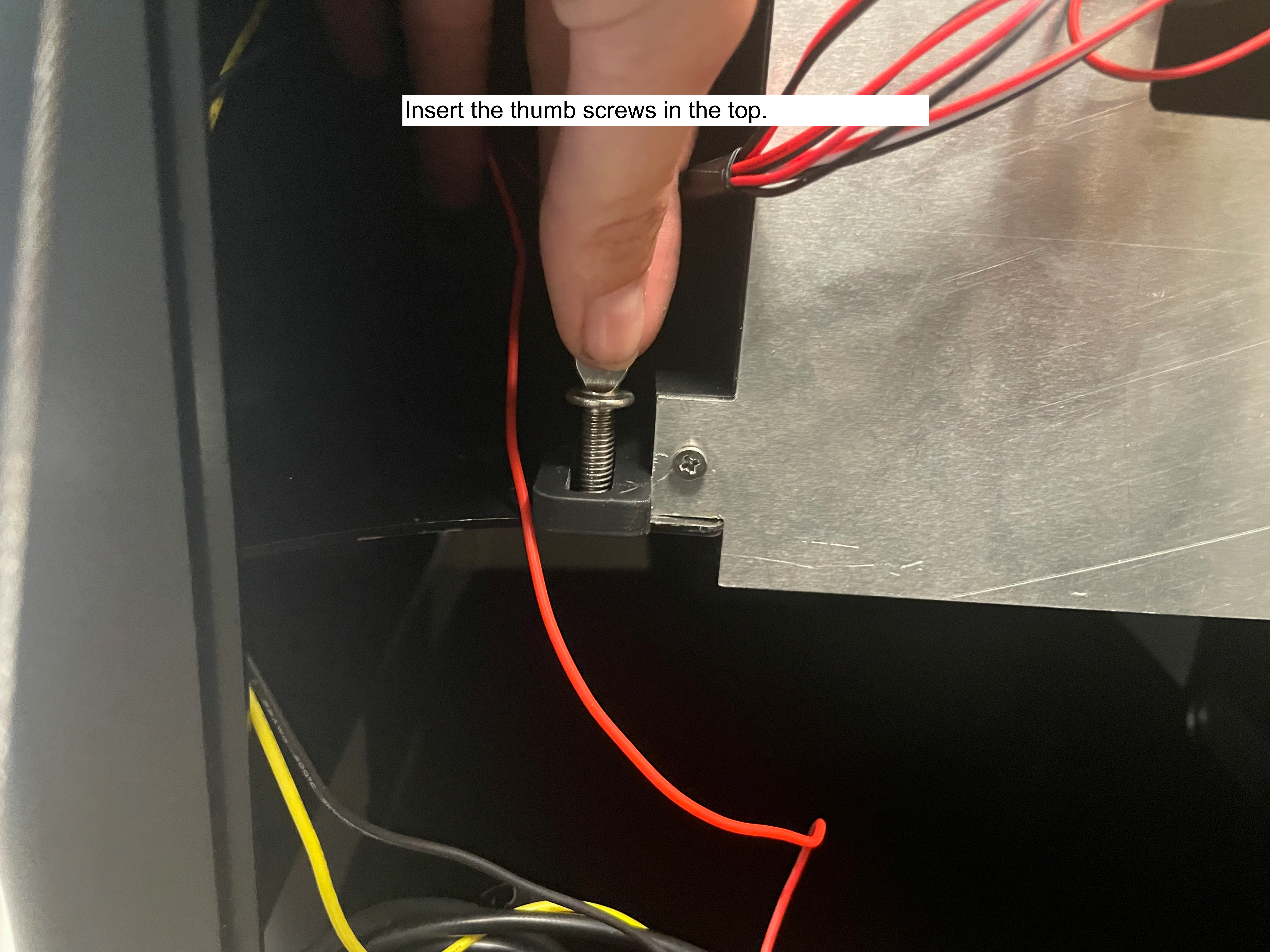
Push the new mainframe back into the SRB in the same way the old one came out.

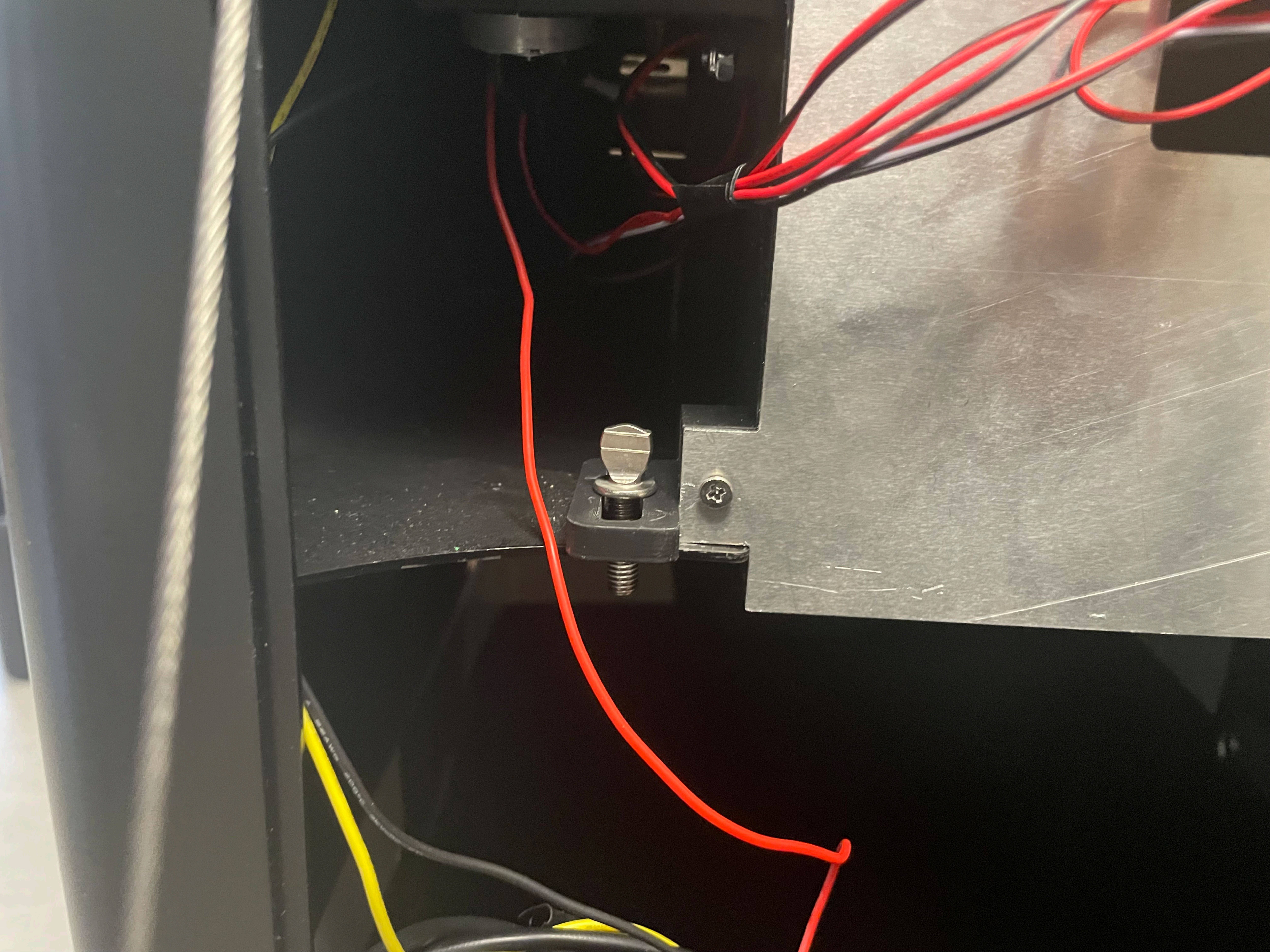


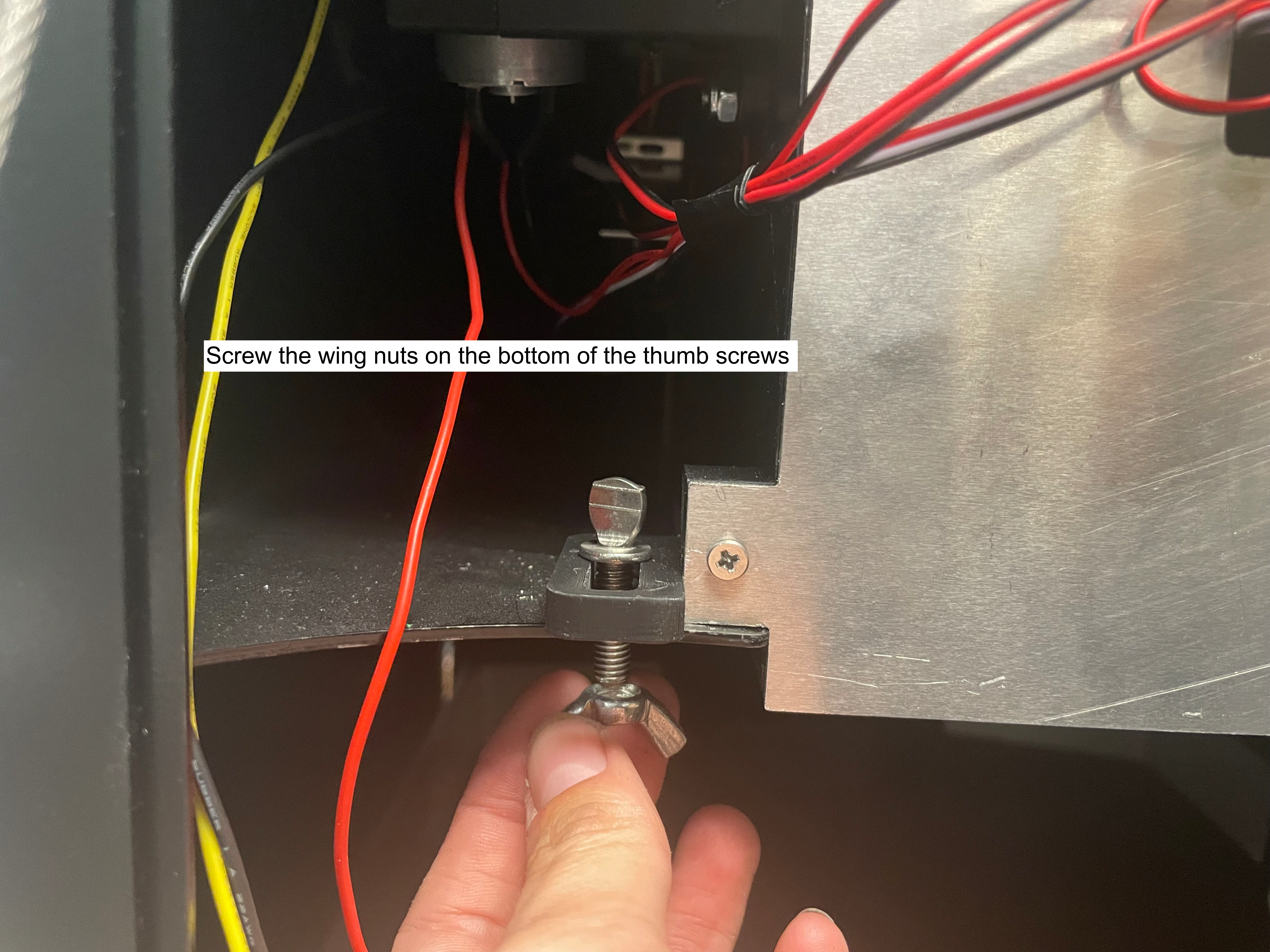
Make sure the side panel holes line up so that the thumb screws will push in easily.



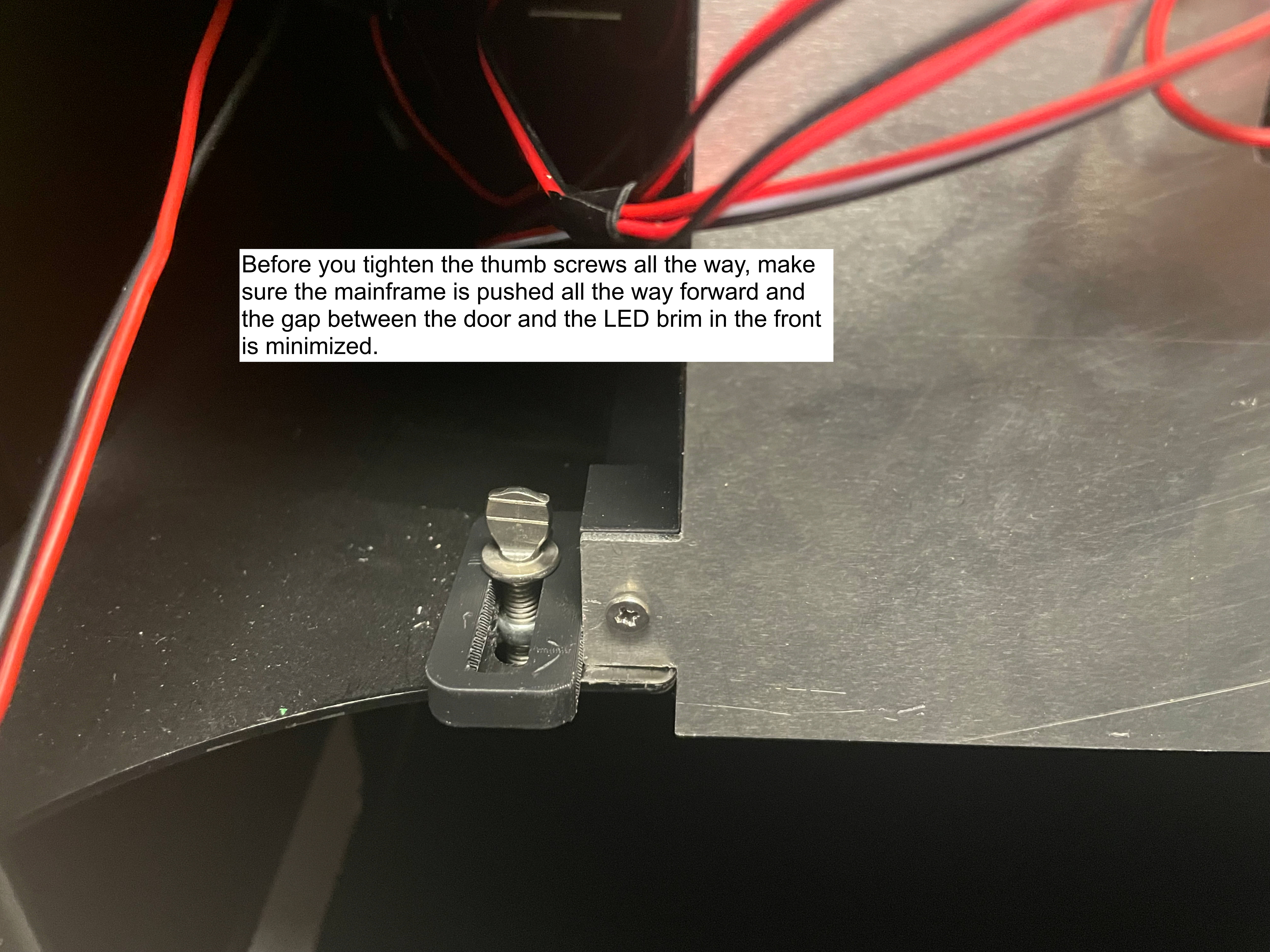
Insert the thumb screws in the top.



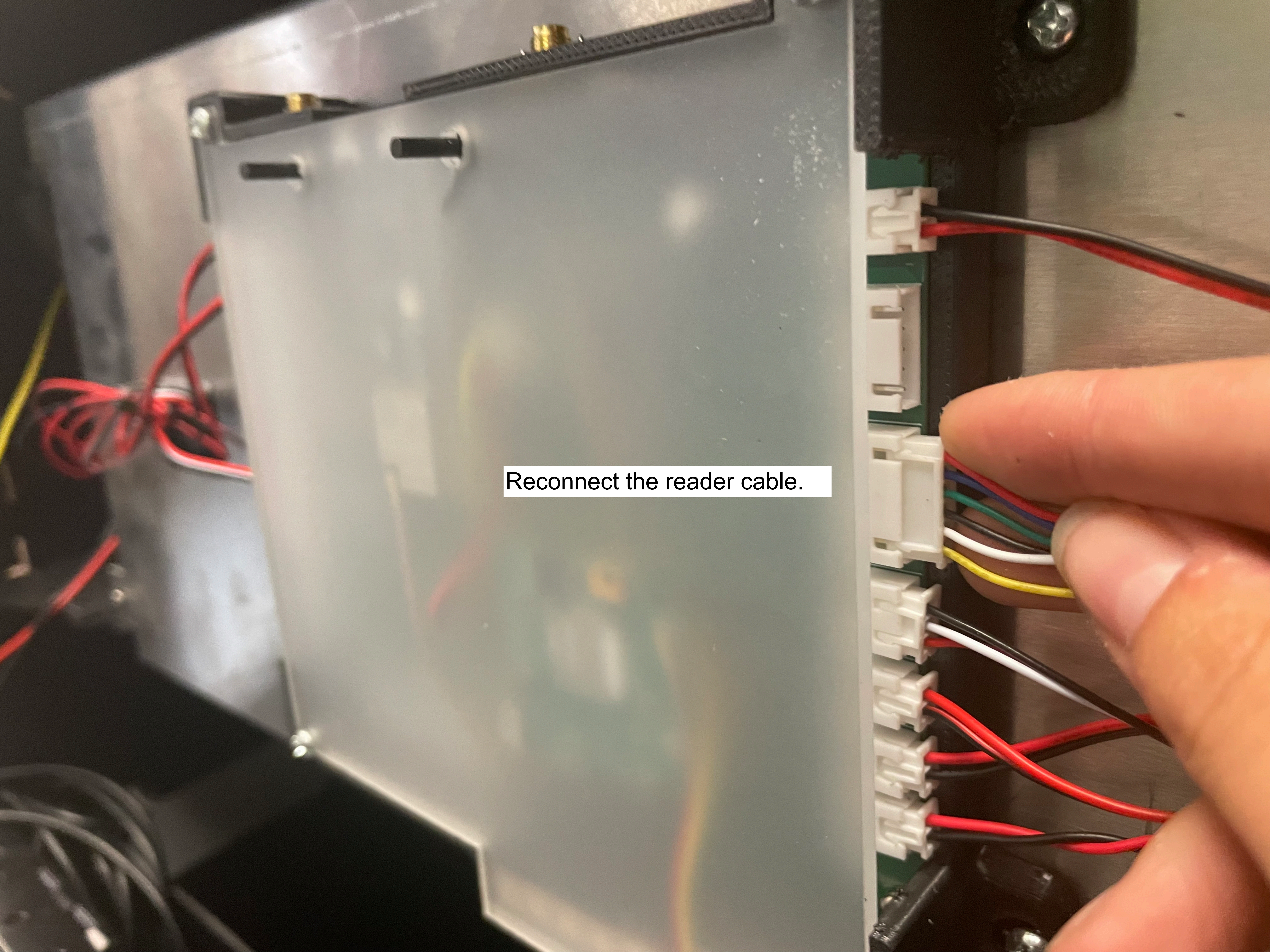




Screw the wing nuts on the bottom of the thumb screws

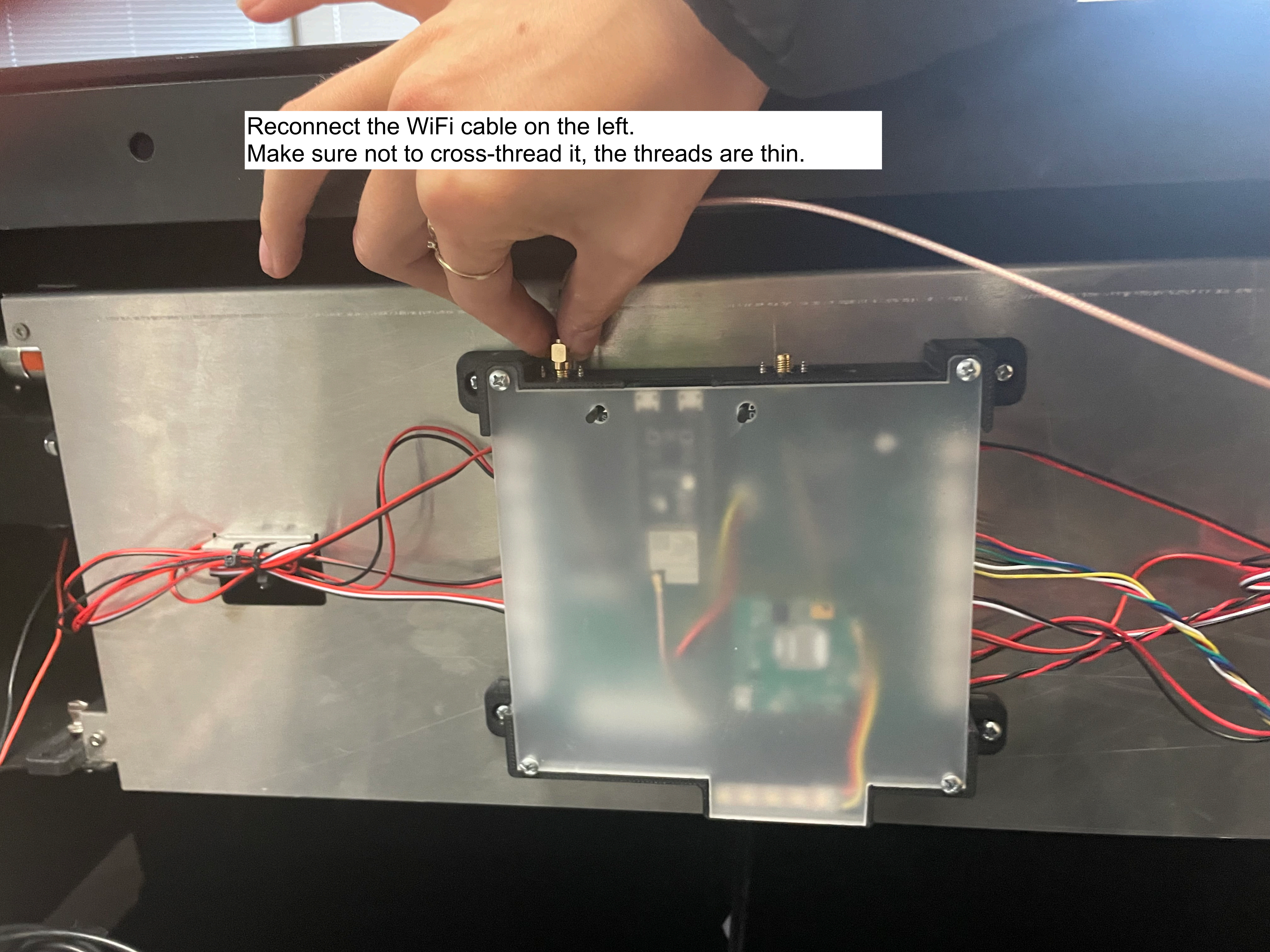
A close-up photograph of a mechanical assembly. In the foreground, a black metal bracket is visible, featuring a silver-colored thumb screw. To the right, a larger, flat metal plate is partially visible. Several red and black wires are bundled together and run across the top of the frame. The background is dark and out of focus.

Before you tighten the thumb screws all the way, make sure the mainframe is pushed all the way forward and the gap between the door and the LED brim in the front is minimized.

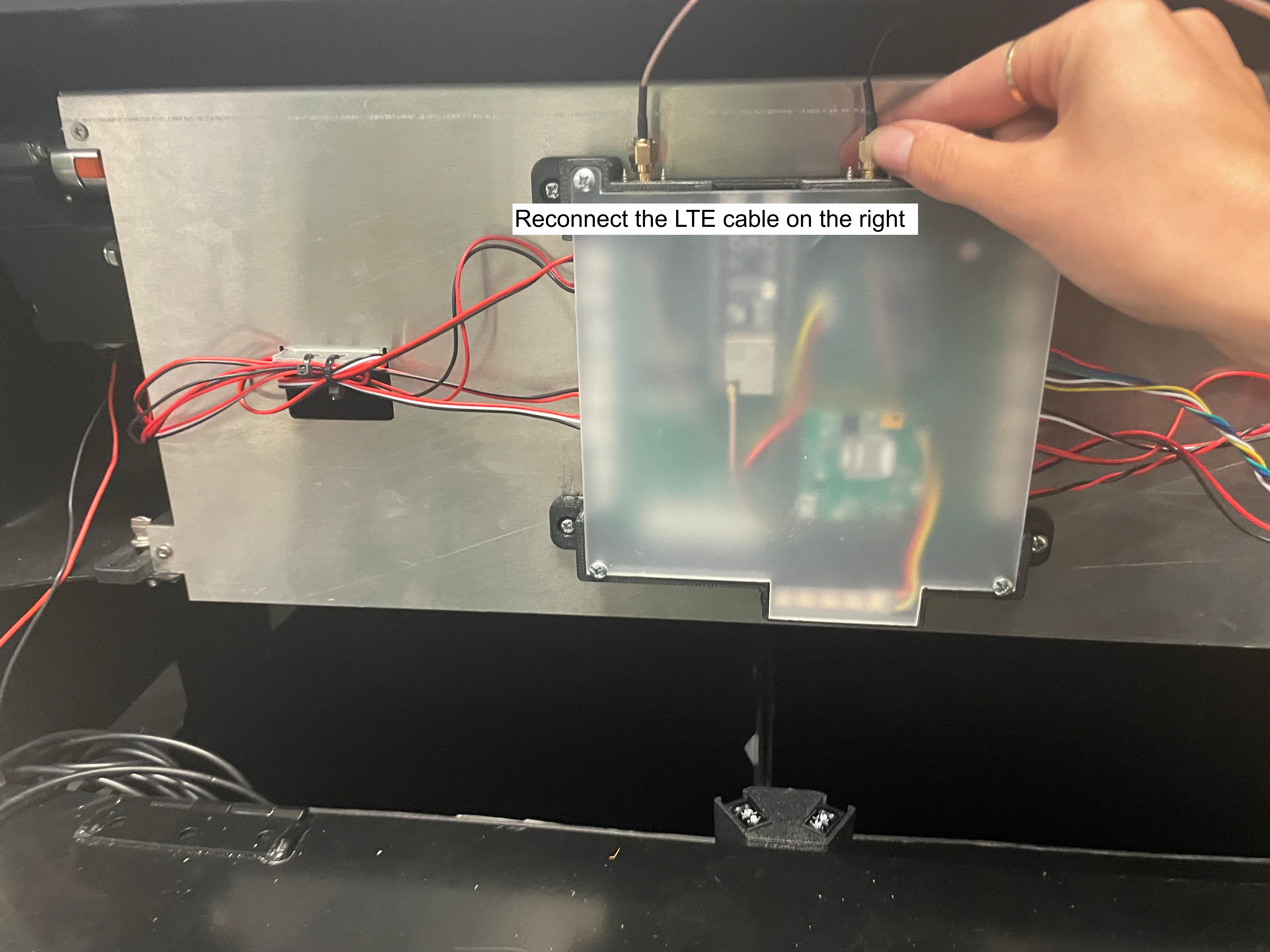


Reconnect the reader cable.

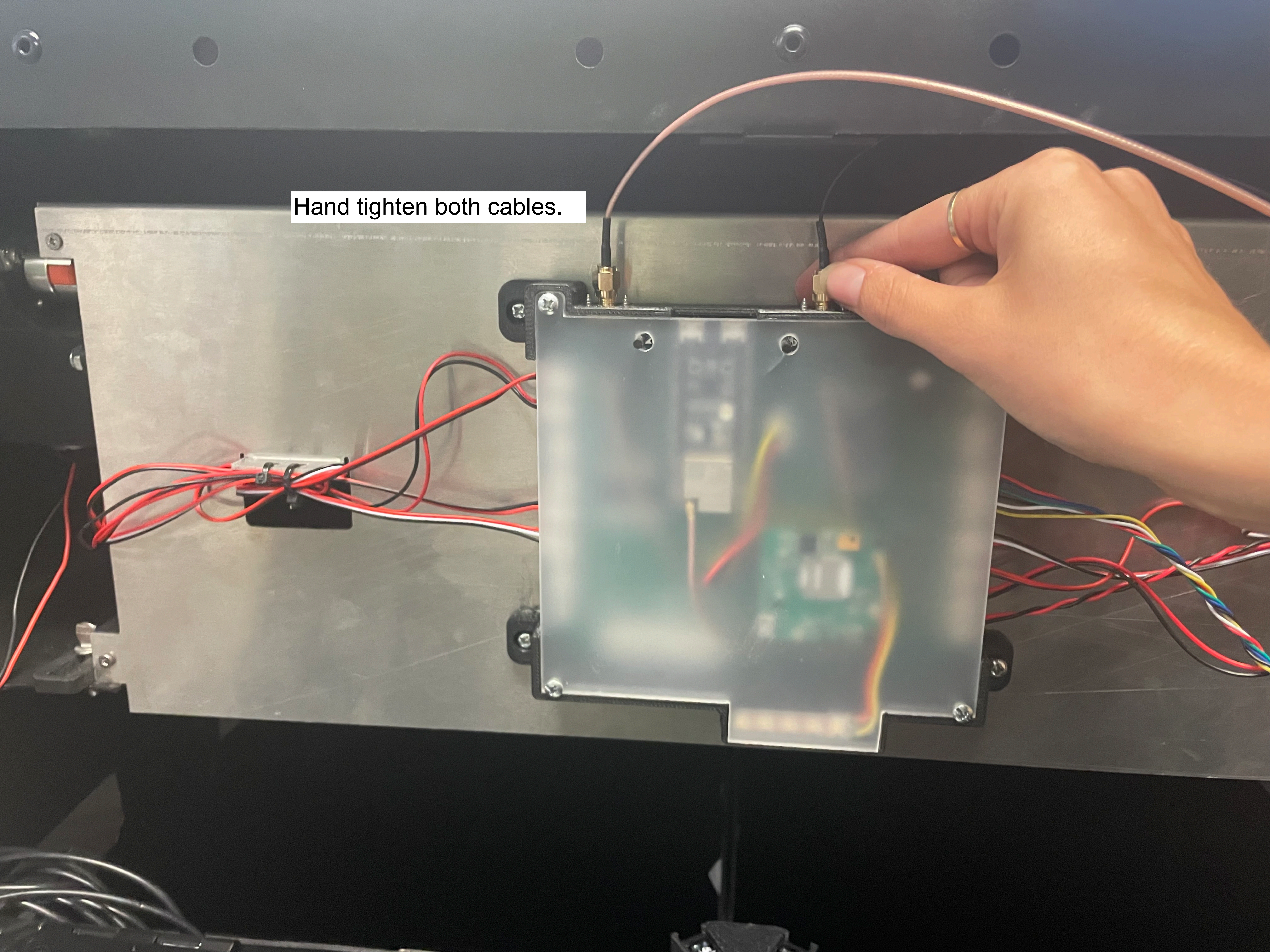
Reconnect the WiFi cable on the left.
Make sure not to cross-thread it, the threads are thin.



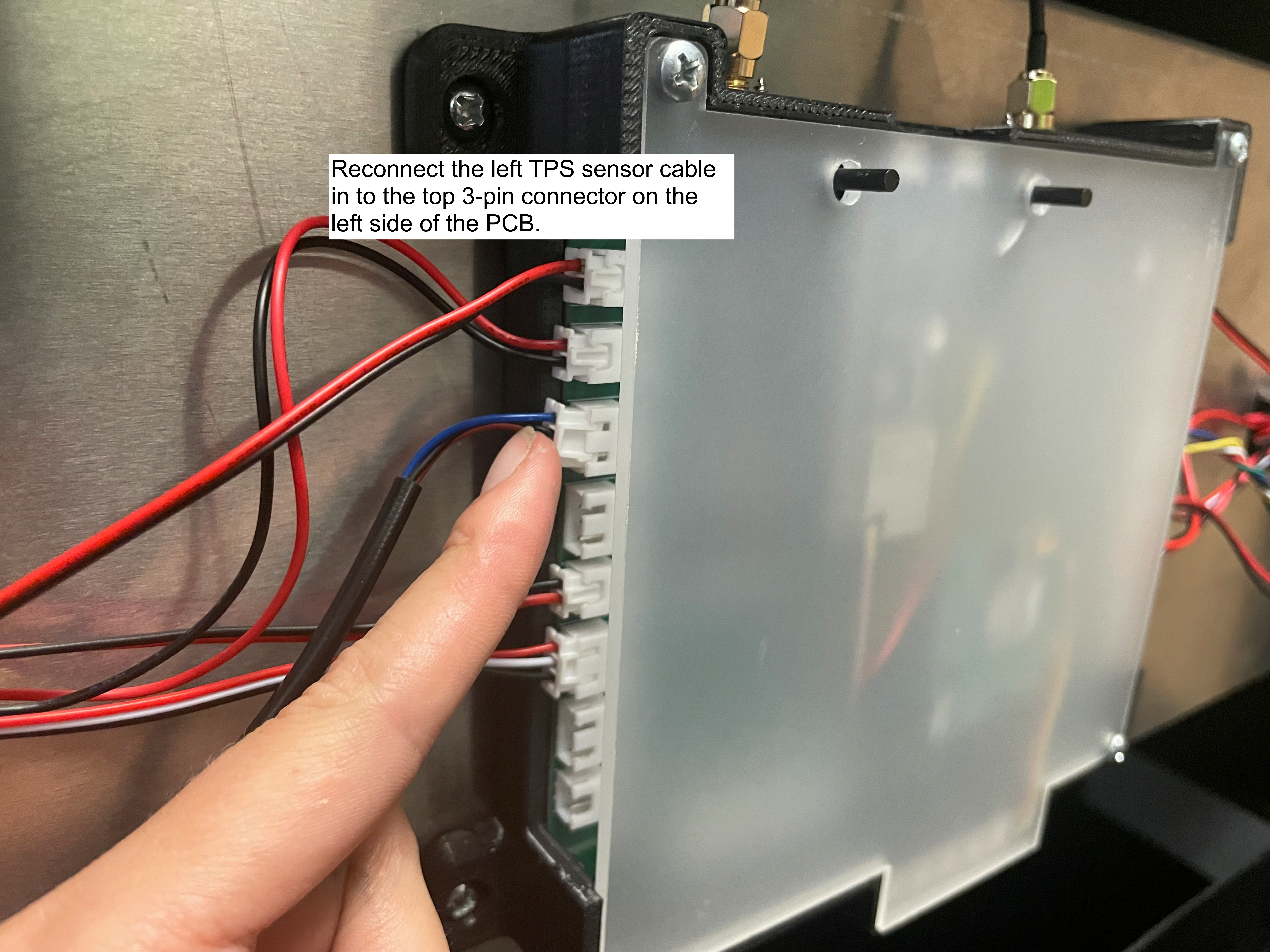
Reconnect the LTE cable on the right



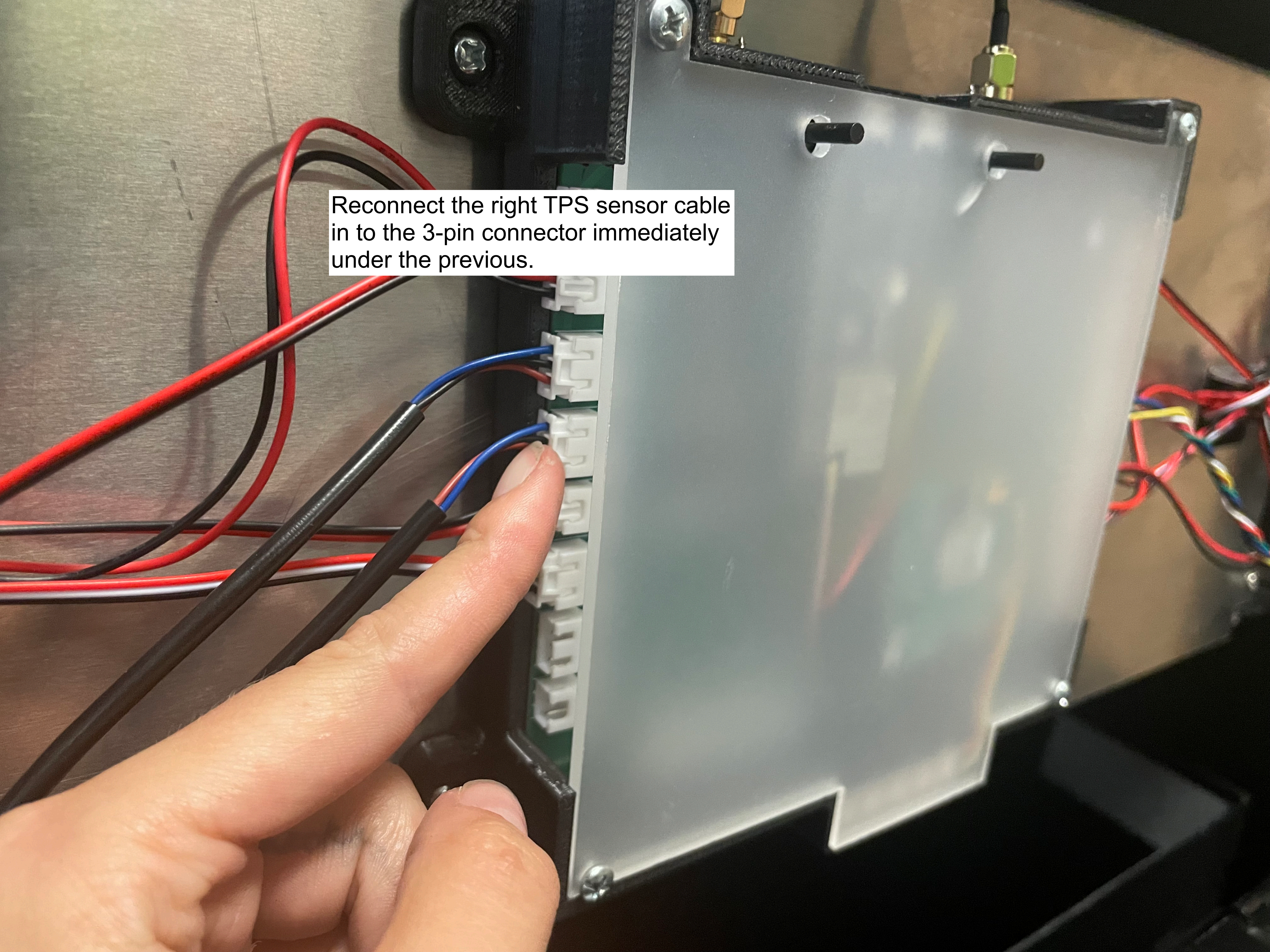
Hand tighten both cables.



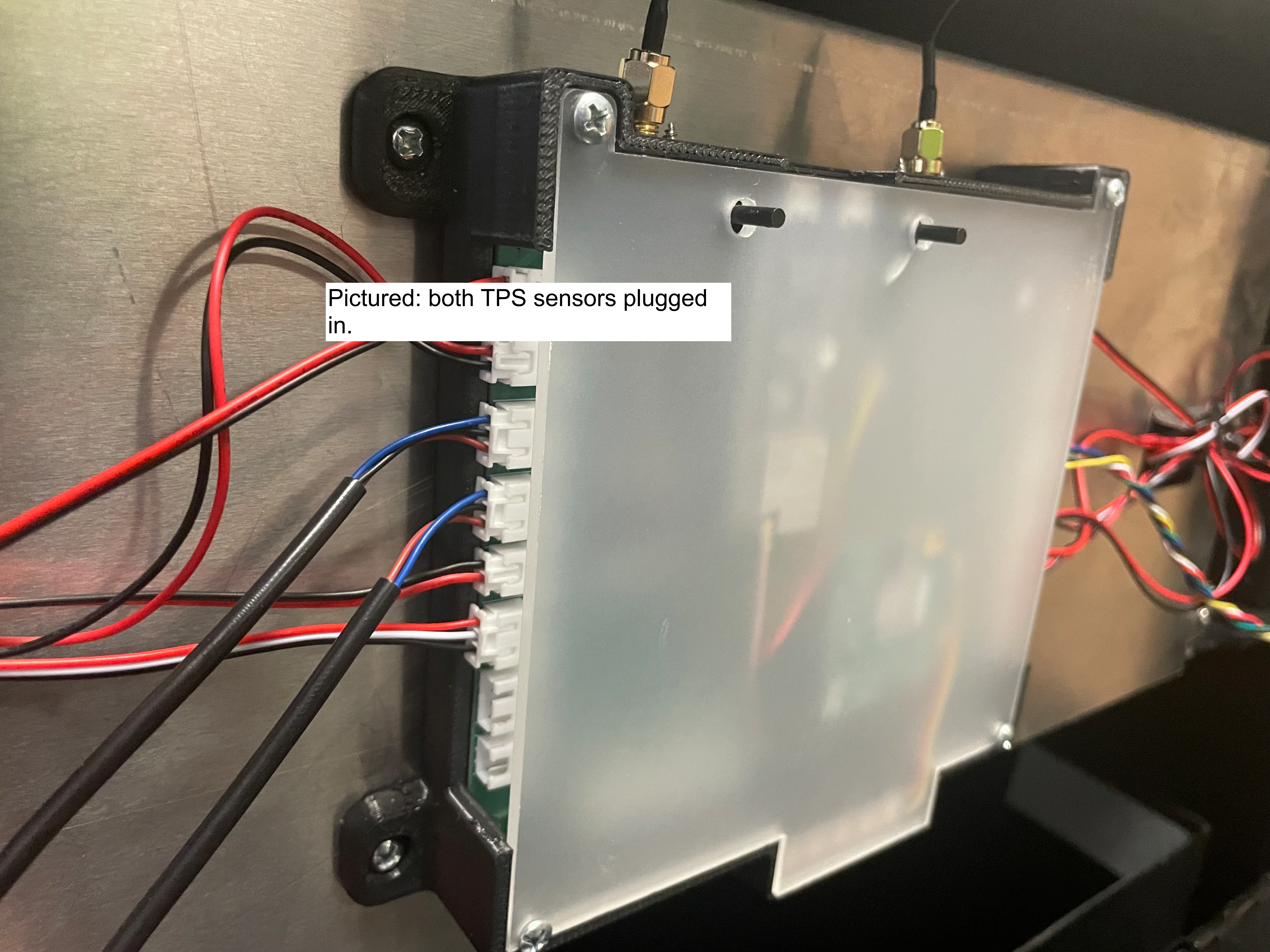
Reconnect the left TPS sensor cable in to the top 3-pin connector on the left side of the PCB.

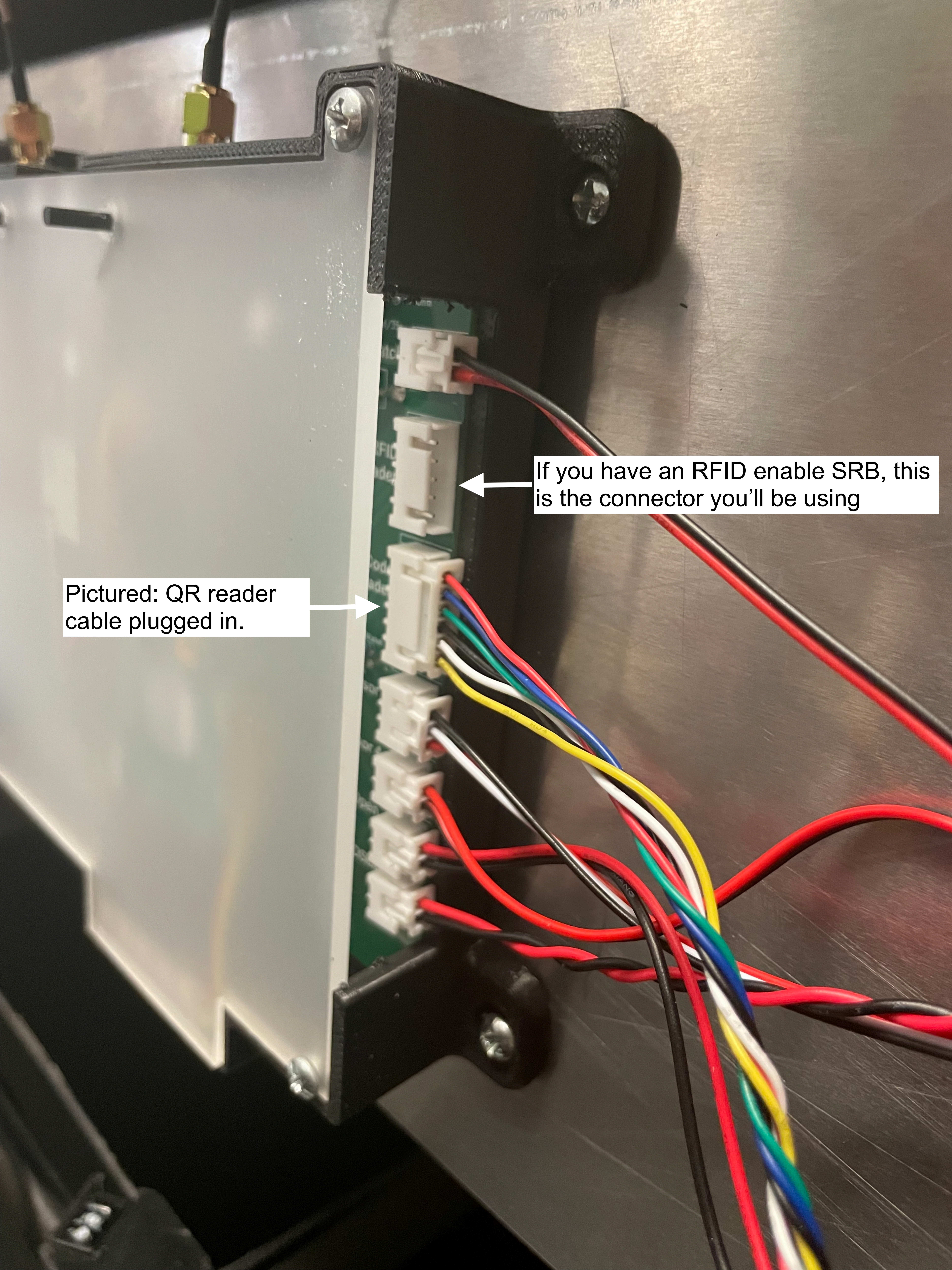


Reconnect the right TPS sensor cable
in to the 3-pin connector immediately
under the previous.



Pictured: both TPS sensors plugged in.

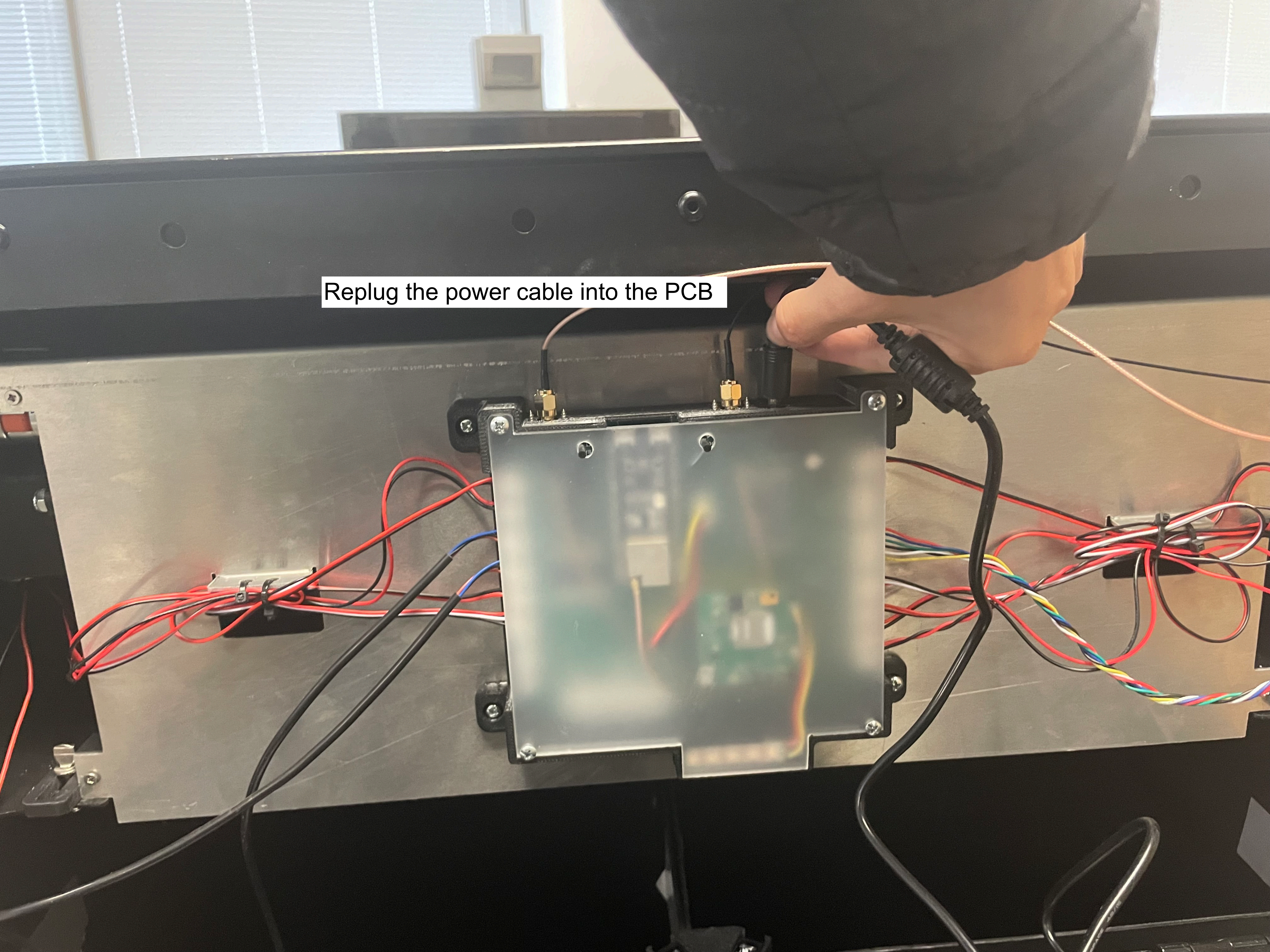


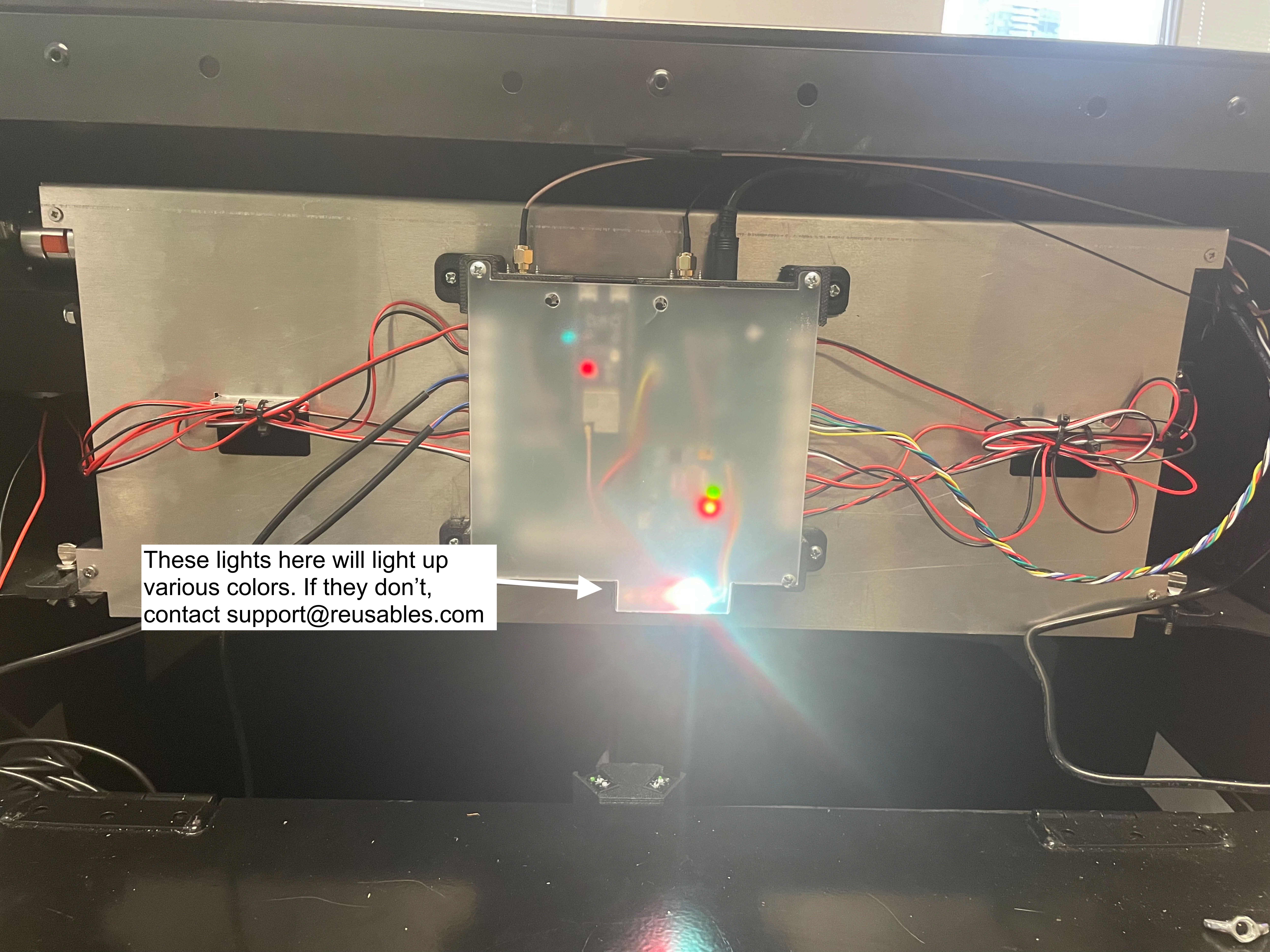


Pictured: QR reader
cable plugged in.

If you have an RFID enable SRB, this
is the connector you'll be using

Replug the power cable into the PCB

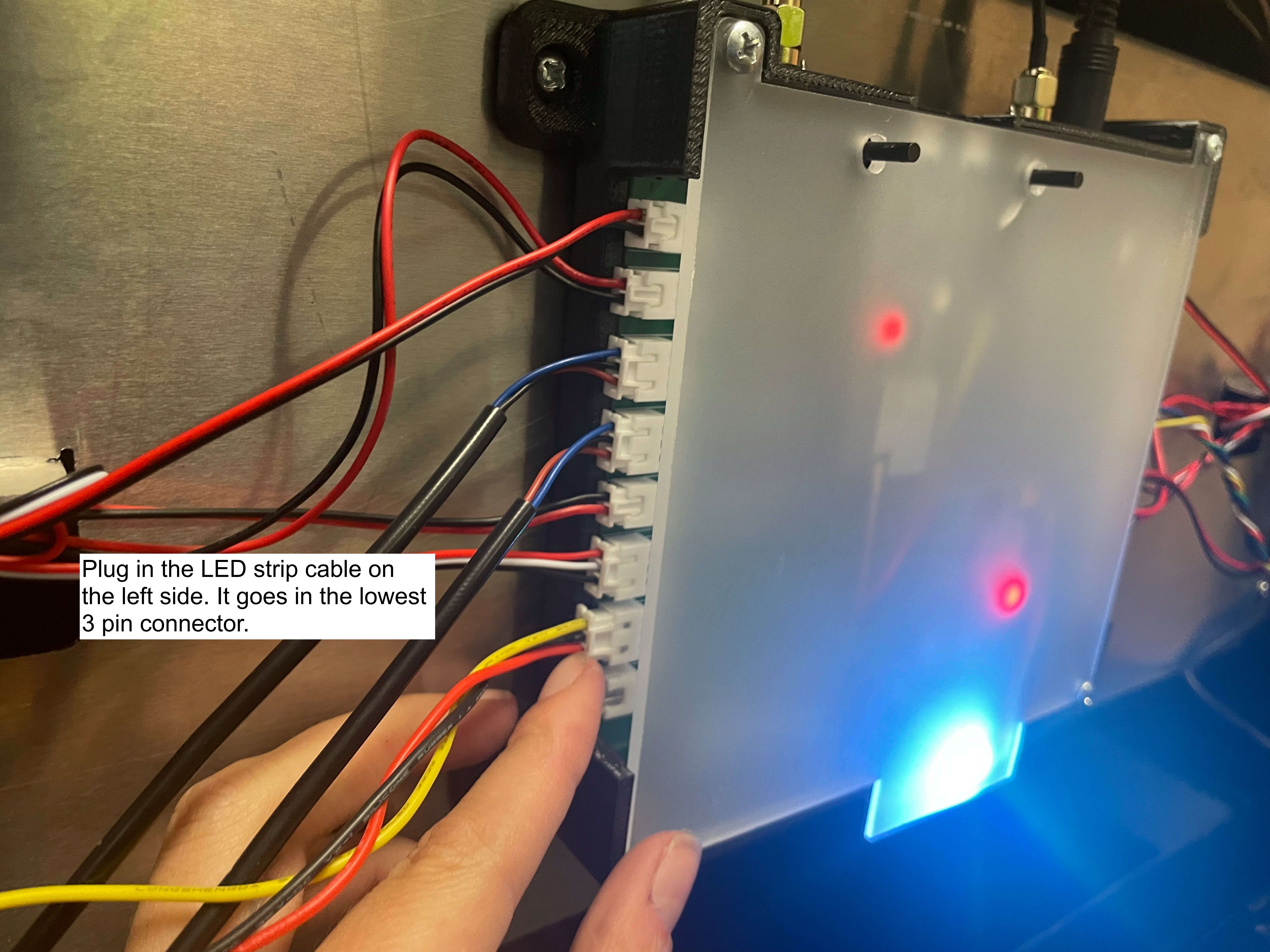




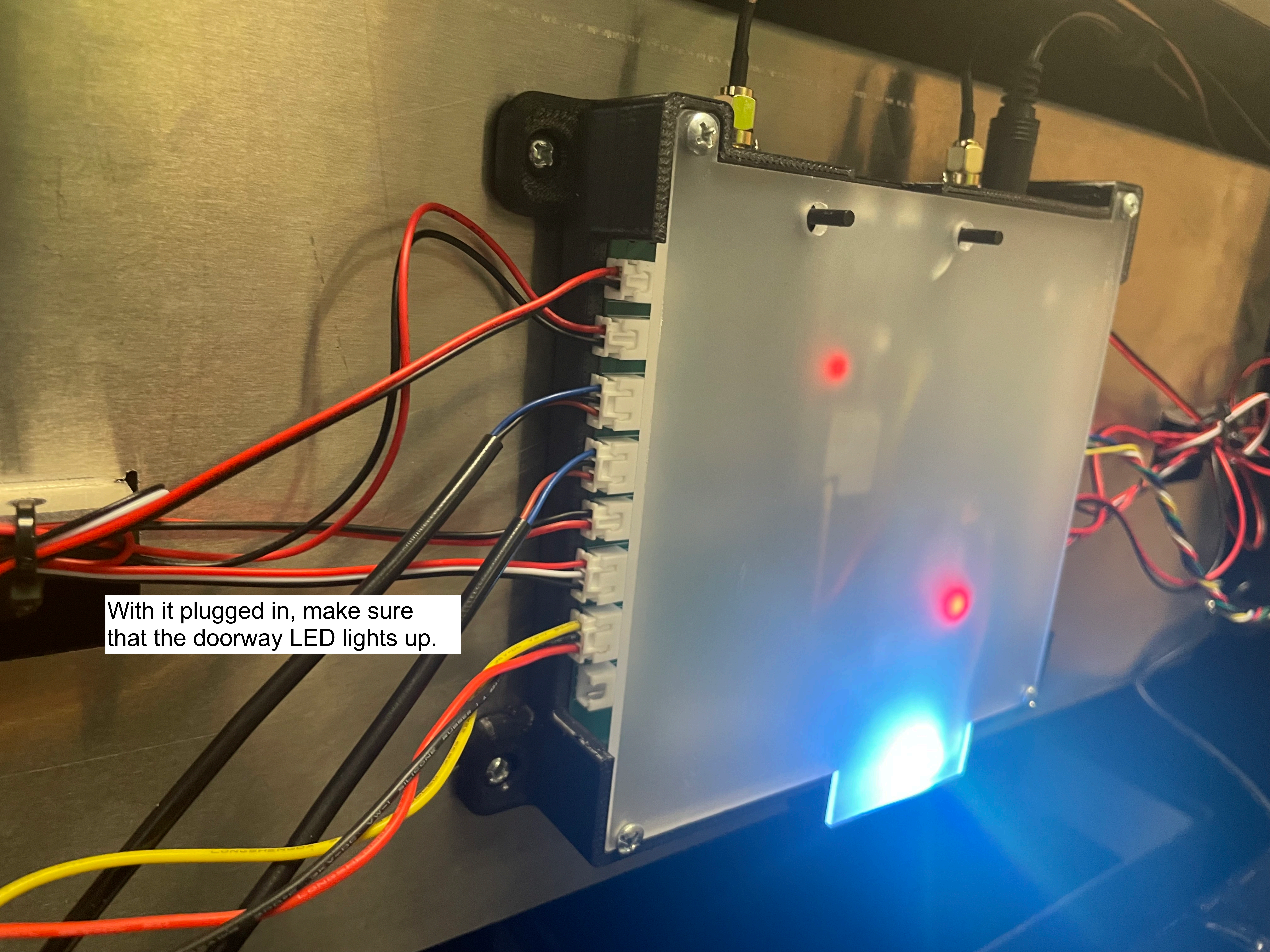
These lights here will light up various colors. If they don't, contact support@reusables.com

The 2 TPS sensors should also illuminate. LED's should be green, not red, when the liners are installed and positioned correctly.

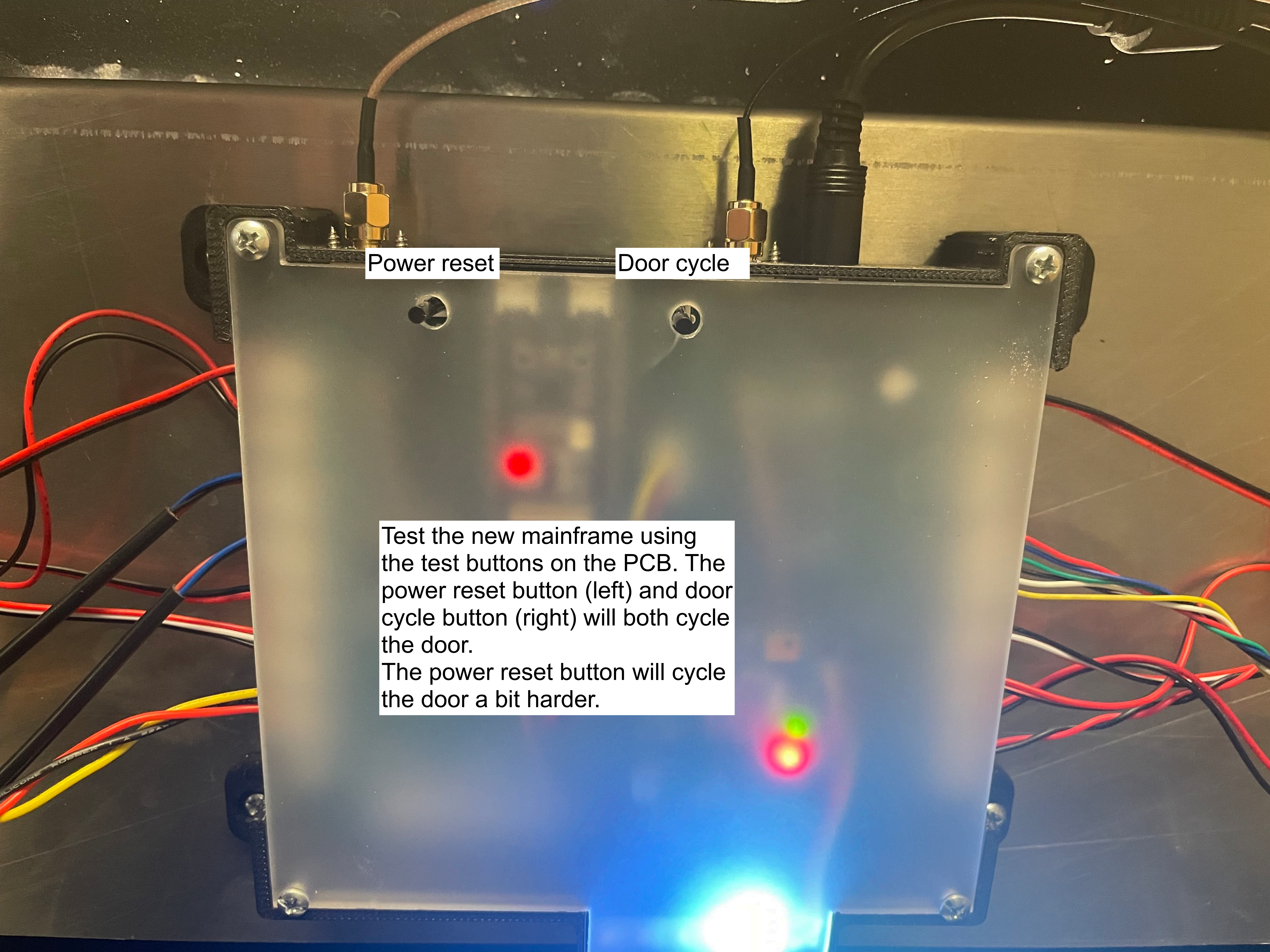


A close-up photograph of a person's hand plugging a multi-colored LED strip cable into a white 3-pin connector on the left side of a silver electronic device. The device has a translucent blue cover that is partially illuminated from within, showing two small red lights and a larger, bright blue light. Several other colored wires (red, black, blue) are plugged into other connectors above the one being used. The device is mounted on a wooden surface.

Plug in the LED strip cable on the left side. It goes in the lowest 3 pin connector.

A custom electronic device is shown, featuring a silver metal faceplate mounted on a black chassis. The faceplate has two small black push-buttons at the top. A blue LED strip is mounted at the bottom of the faceplate and is illuminated. On the left side of the faceplate, there is a vertical row of white terminal blocks. Numerous colored wires (red, black, blue, yellow) are connected to these terminals. At the top of the device, there are two SMA connectors and a power jack. The device is mounted on a wooden surface.

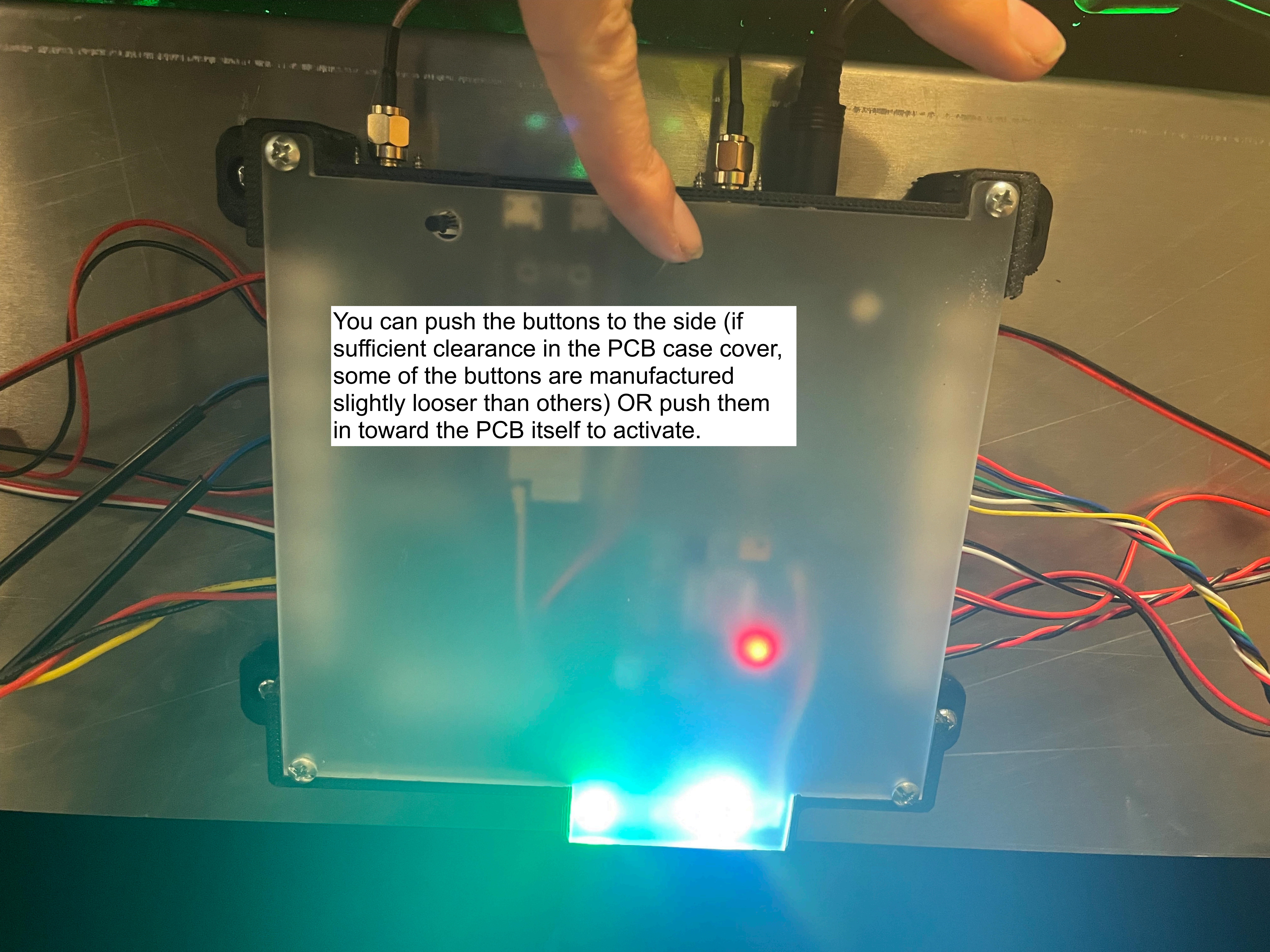
With it plugged in, make sure
that the doorway LED lights up.



Power reset

Door cycle

Test the new mainframe using the test buttons on the PCB. The power reset button (left) and door cycle button (right) will both cycle the door. The power reset button will cycle the door a bit harder.

A close-up photograph of a person's finger pressing a small, rectangular button on a silver-colored metal PCB case cover. The cover is mounted on a larger metal plate. Several multi-colored wires (red, black, blue, yellow, green) are connected to the bottom of the cover. Inside the cover, three LEDs are visible: a red one at the top and two blue ones at the bottom. The background is a dark, textured surface.

You can push the buttons to the side (if sufficient clearance in the PCB case cover, some of the buttons are manufactured slightly looser than others) OR push them in toward the PCB itself to activate.

Good to go! Congratulations on
the successful mainframe swap!

