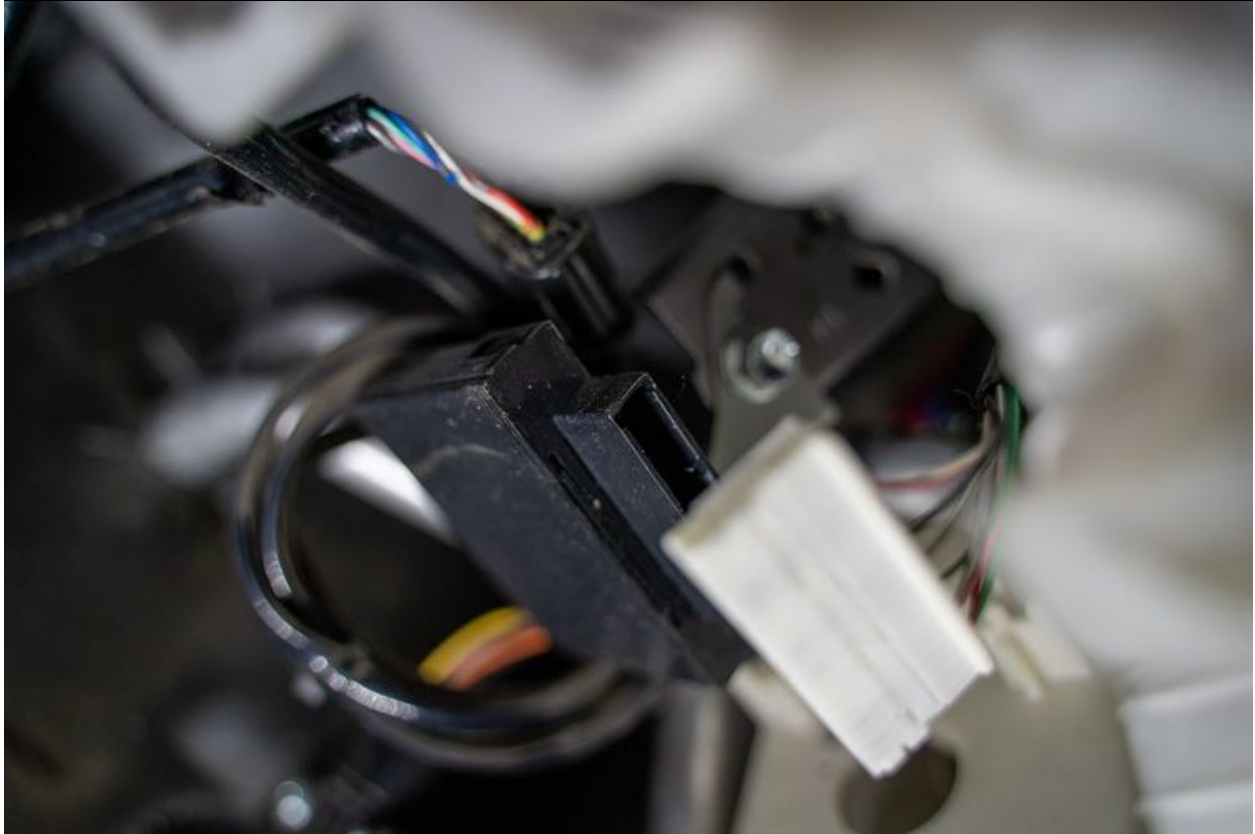


# DR KDSS Harness Installation

Updated 4/12/22

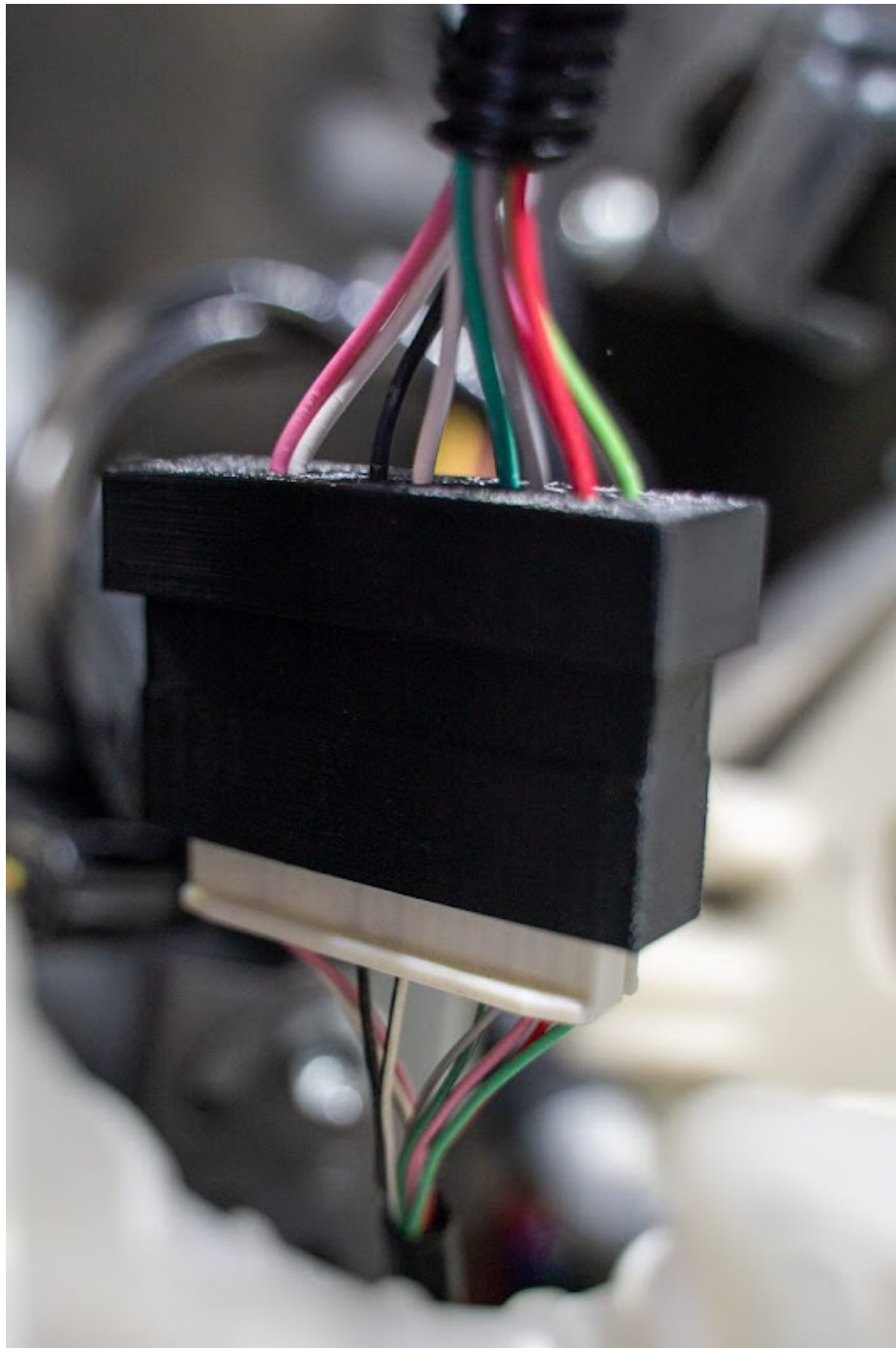
## Step 1: White Connector

First thing is to unplug the white connector from the KDSS ECU module. It's located about 1ft above your right ankle if you have your foot on the gas pedal.



**Step 2: Harness to Factory**

Take your time and plug the white factory connector into my mating connector on the KDSS harness. Be very careful doing so and do not just shove it in, please stare at the connector and make sure you visually see that it's square and lines up. You can potentially bend a pin or two. Same goes for the factory plug from my harness back into the factory KDSS ECU.



**Step 3: Harness to KDSS ECU**

Now plug the white connector on the harness back into the factory KDSS ECU module.



#### **Step 4: Dash Test**

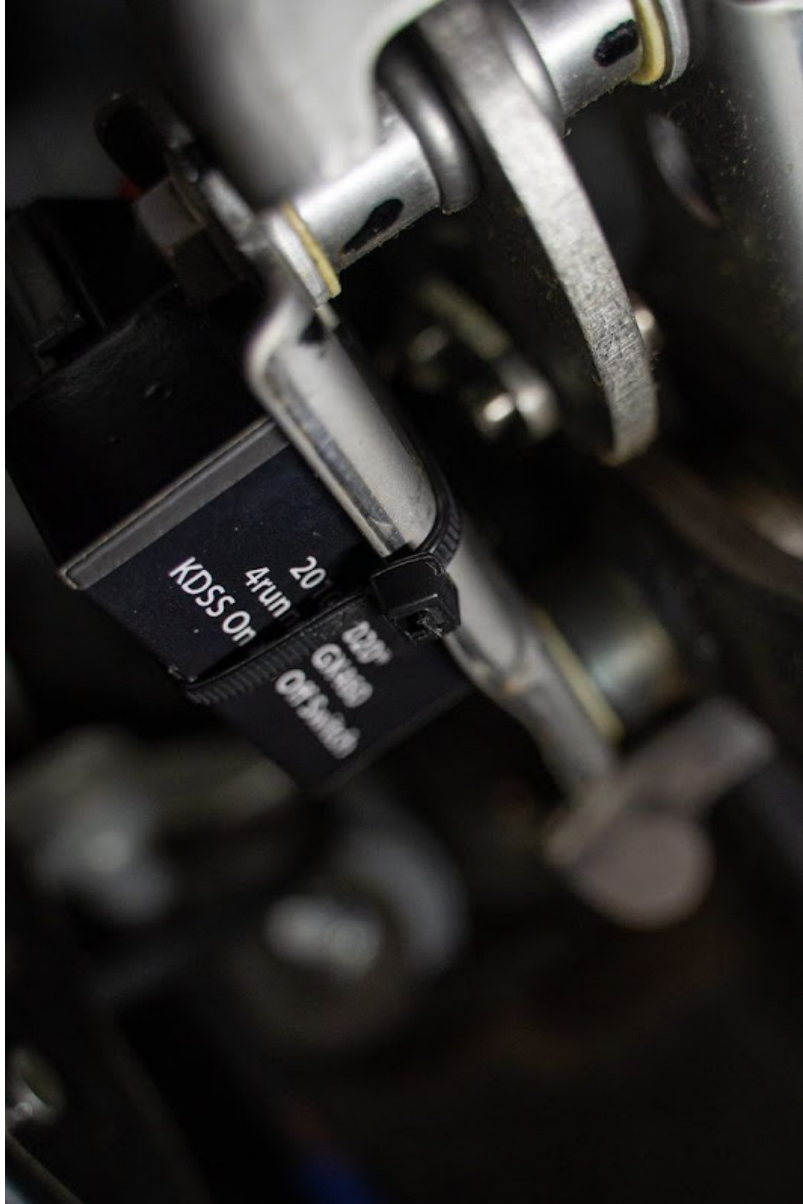
At this point, you want to turn the key to the in position. Let your dash do its normal thing. Kdss should not stay on. If it stays on do not proceed and contact DRKDSS. If kdss light goes away. You can move on to the next steps

#### **Step 5: Zip-Tie Relays**

Next, you loop the whole harness over the steering wheel shaft and over the brake pedal bracket. Zip tie the relays to the left side of the brake bracket. Relays should be oriented upside down as shown in the picture below. Make sure to use the body of the relays to zip tie to the left side of the brake bracket.

NOTE: The brake pedal bracket has sharp edges, be careful not to cut yourself!





**Step 6: Ground to Fuse Box**

With the relays properly in place you should have the red and black wires hanging down on the left side of the foot well. Now hook up the black ground wire from the harness to the fuse box bolt. Your fuse box is to the left of your upper shin area if sitting in the driver seat.





**Step 7: Prep Dash Panel**

( gx and prado , may have extra panel / switch panel to remove depending on the year)

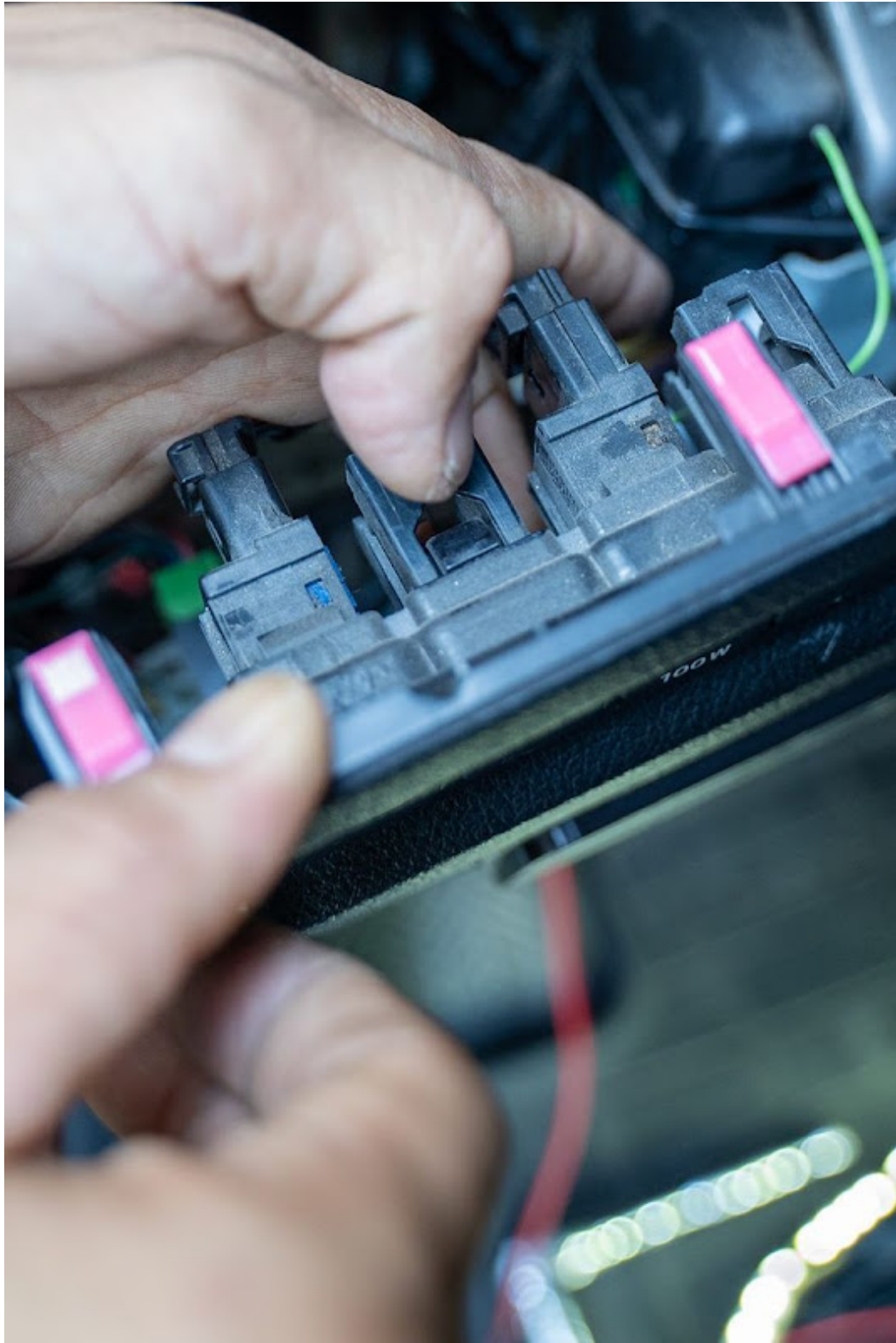
At this point, pull out the lower dash panel that is around the steering wheel so we can get behind the blank switch spots/ switches. Pull out the blank switch closest to the front defrost factory switch( suggested location )











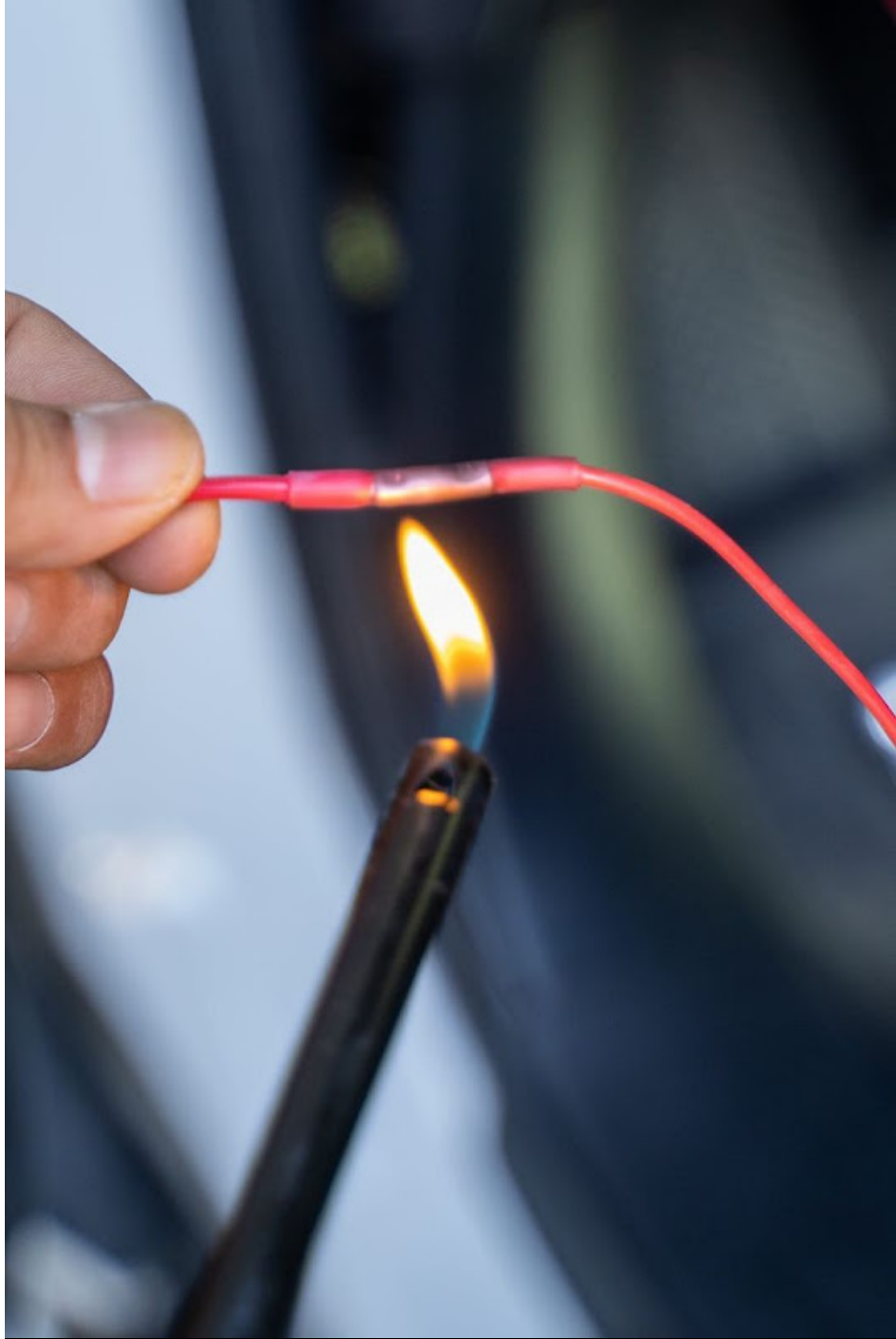


(If you have a switch controller similar to switch pro or auxbeam switch panel, at this point you will run the red wire from kdss harness into engine bay and to your switch controllers switch location you desire)

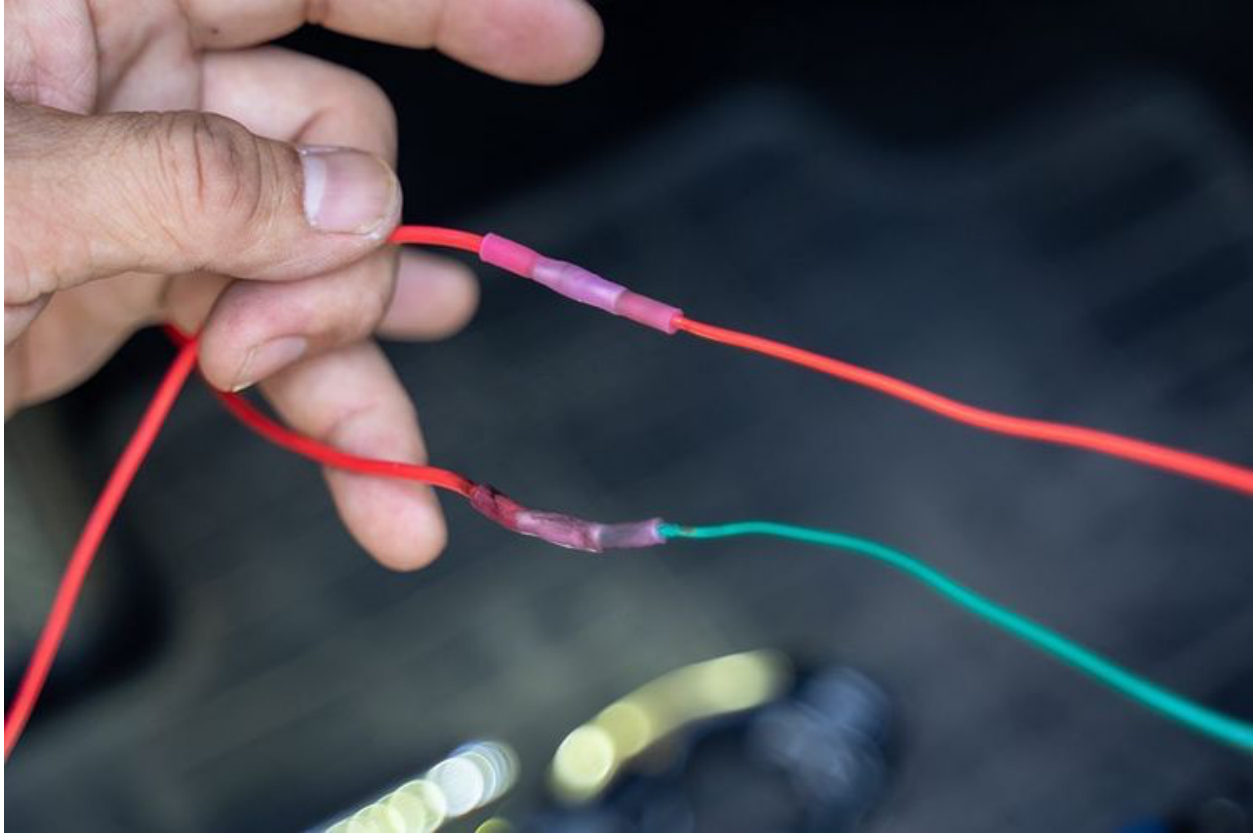
### **Step 8: Wiring**

Now let's work on the wiring to the factory style dash switch. Disconnect the green connector from the back of the factory style dash switch (may or may not be connected). This will allow you to work on the wiring for the switch below the dash (much easier). From the KDSS harness in the footwell you should have just the red wire. Connect the red wire to the green wire on the dash switch. . (crimp connectors provided but you will need a crimp tool and a lighter or heat gun to shrink them, MAKE SURE YOU CRIMP HARD)





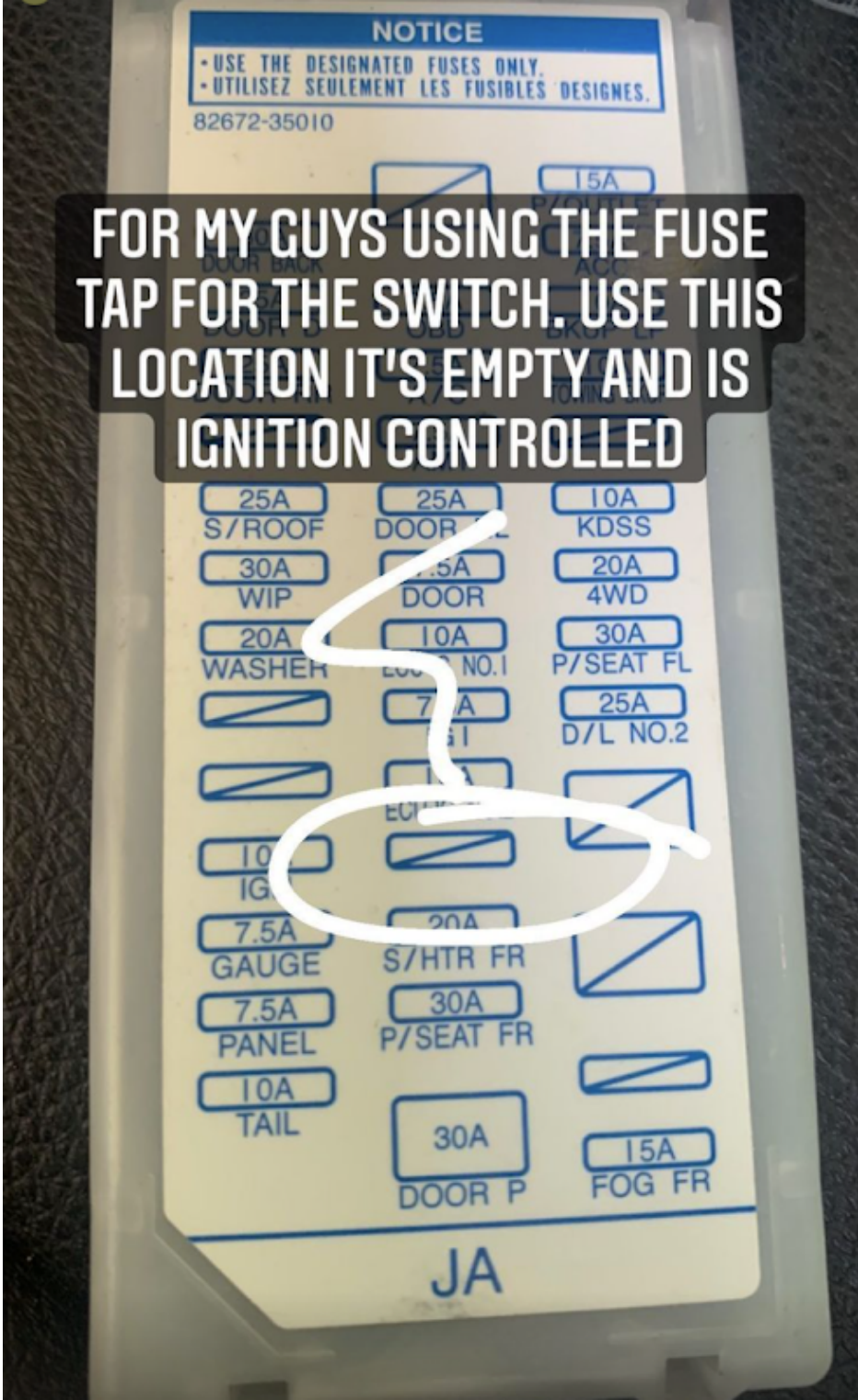






### **Step 9: Switch to Fuse Box**

Connect the red wire from switch to fuse box using the provided fuse tap. Location is very dependent on vehicle and or if spots are taken up already from other fuse taps ( very common ). 2010-2019 4runner you can use the blank spot located in the middle row, 4th fuse up from the bolt. I only include a 5amp fuse in the fuse tap. That is to protect the kdss side of the harness. If you use the/a blank spot, you will need to put a 10amp fuse in the blank spot in the fuse tap( hint: you have spare 10amp fuse in your main fuse box in the engine bay). If you use a location where there's a fuse , please make sure you put that fuse in the blank spot on the fuse tap. Ig1 is a good spot too. Basically you want to connector to a fuse location that is ignition controlled. If you are savvy with a bolt meter , then you can figure out what location to use.



FOR MY GUYS USING THE FUSE TAP FOR THE SWITCH. USE THIS LOCATION IT'S EMPTY AND IS IGNITION CONTROLLED

25A S/ROOF	25A DOOR L	10A KDSS
30A WIP	15A DOOR	20A 4WD
20A WASHER	10A ECC NO.1	30A P/SEAT FL
	7.5A SI	25A D/L NO.2
10A IGN		
7.5A GAUGE	20A S/HTR FR	
7.5A PANEL	30A P/SEAT FR	
10A TAIL		
	30A DOOR P	15A FOG FR

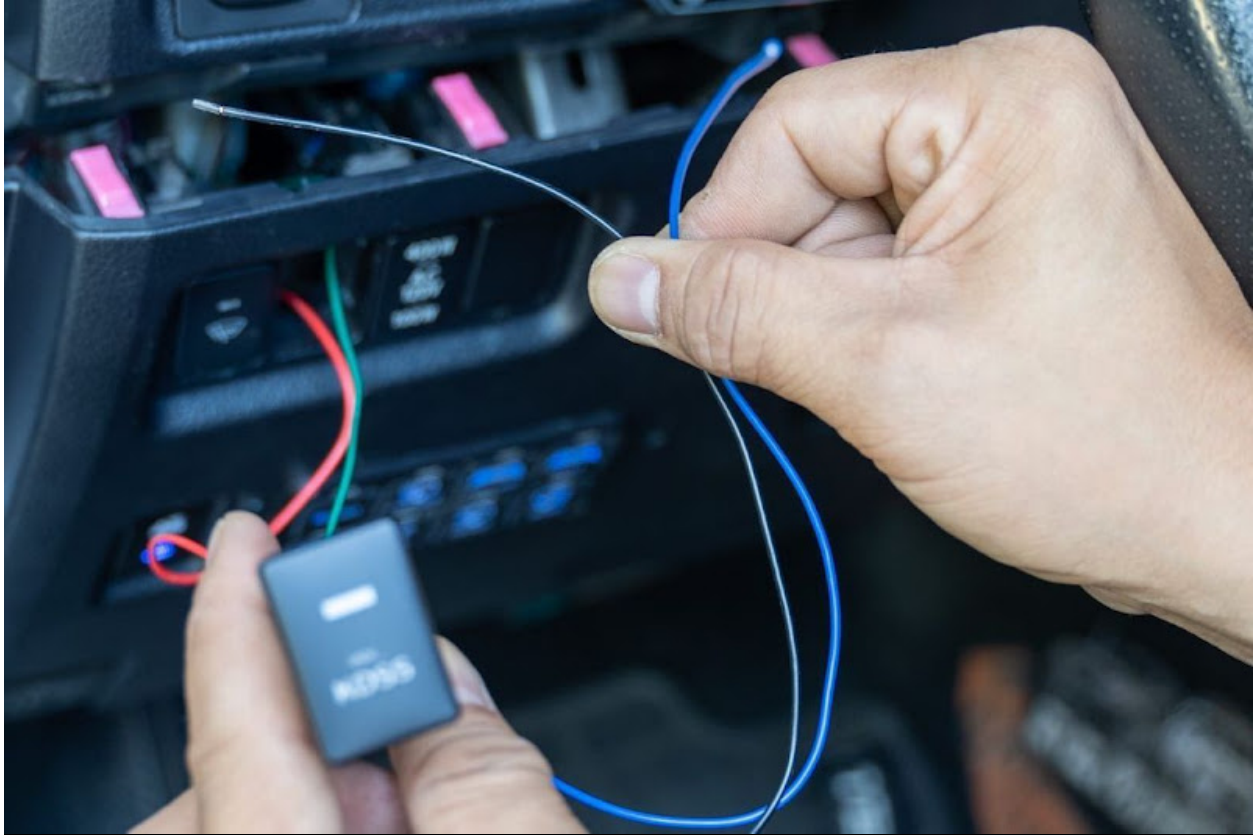
JA

### Step 10: Prep Switch

Disconnect the green plug from the switch( if you haven't already ) and run the green plug through from the inside of the dash panel so it's hanging out and then connect it to the Factory style dash switch. Pull the switch back into the pocket until it clicks. You should have only 2 wires left: The blue wire and the black wire from the switch. At this point the switch will activate the KDSS harness but the switch LEDs will not light up. Please check this before proceeding.



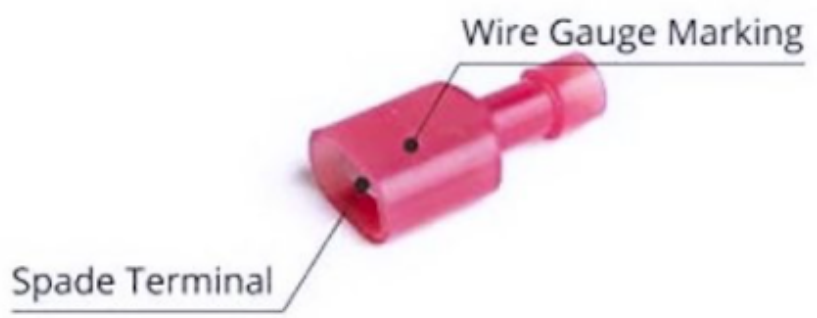




**Step 11: T-Taps Review (Check back for vehicle make instructions)**  
To enable the lights you will use the provided T-Taps to tap into a neighboring OEM switch. I recommend that you T-Tap into the front defrost switch. Please review how T-Taps work:



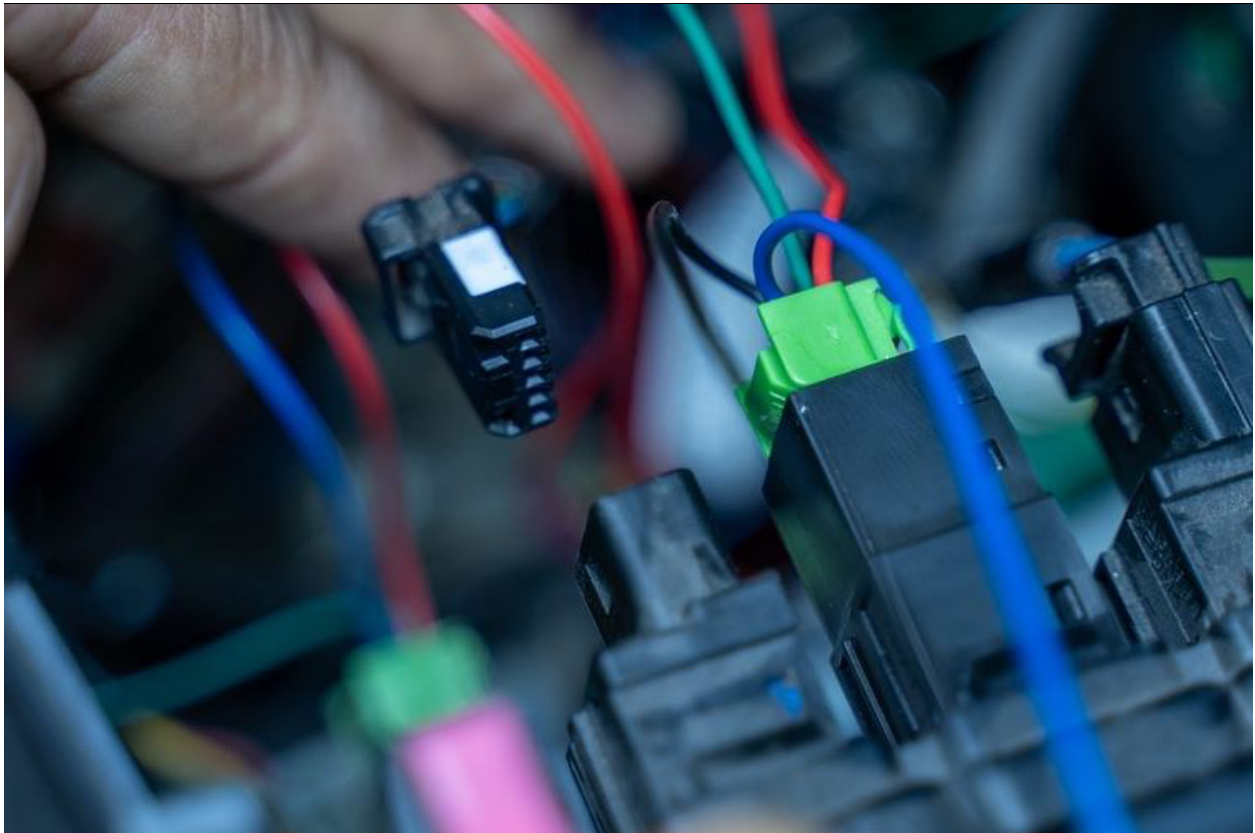
**THIS IS HOW YOU USE THE WIRE TAPS I INCLUDED. THEY DON'T REALLY SELF STRIP SO IT GOOD TO USE SOME WIRE STRIPPER TO PEEL BACK THE INSULATION THEN CRIMP IT.**

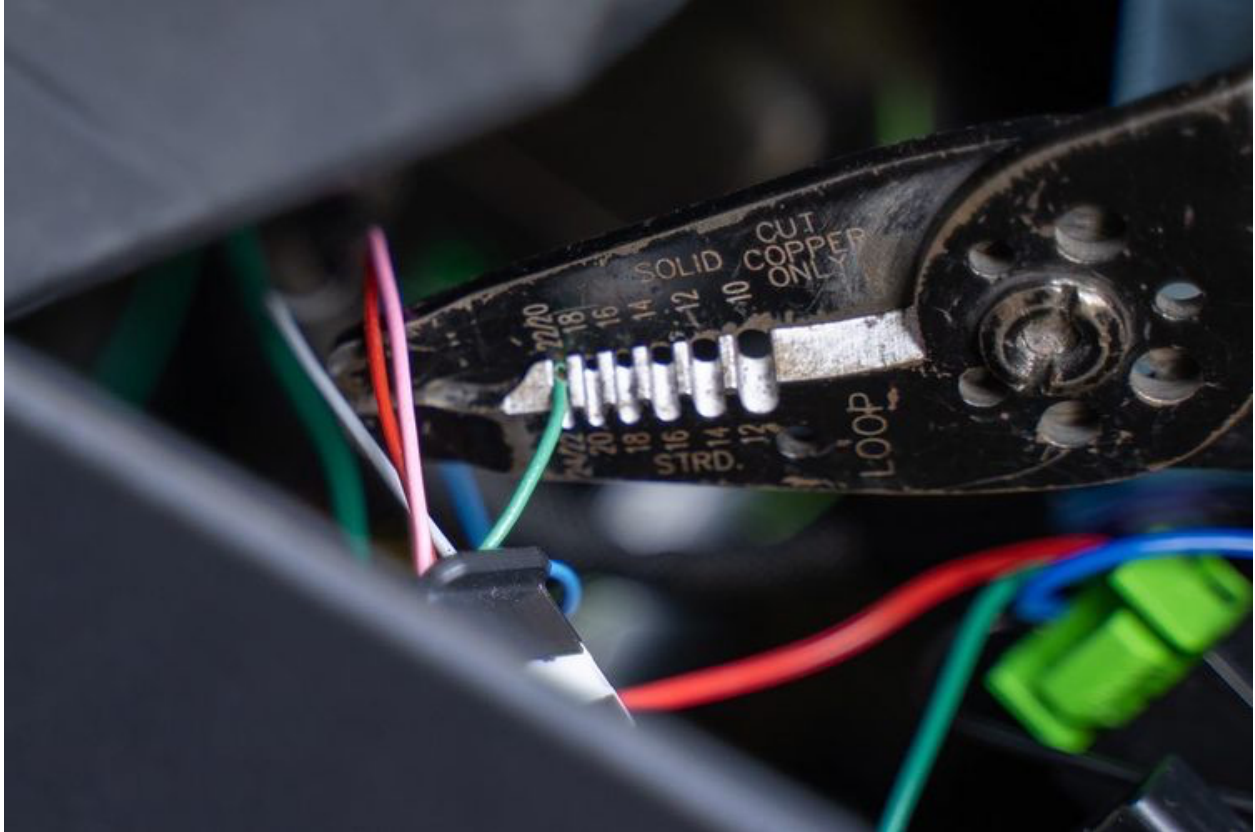


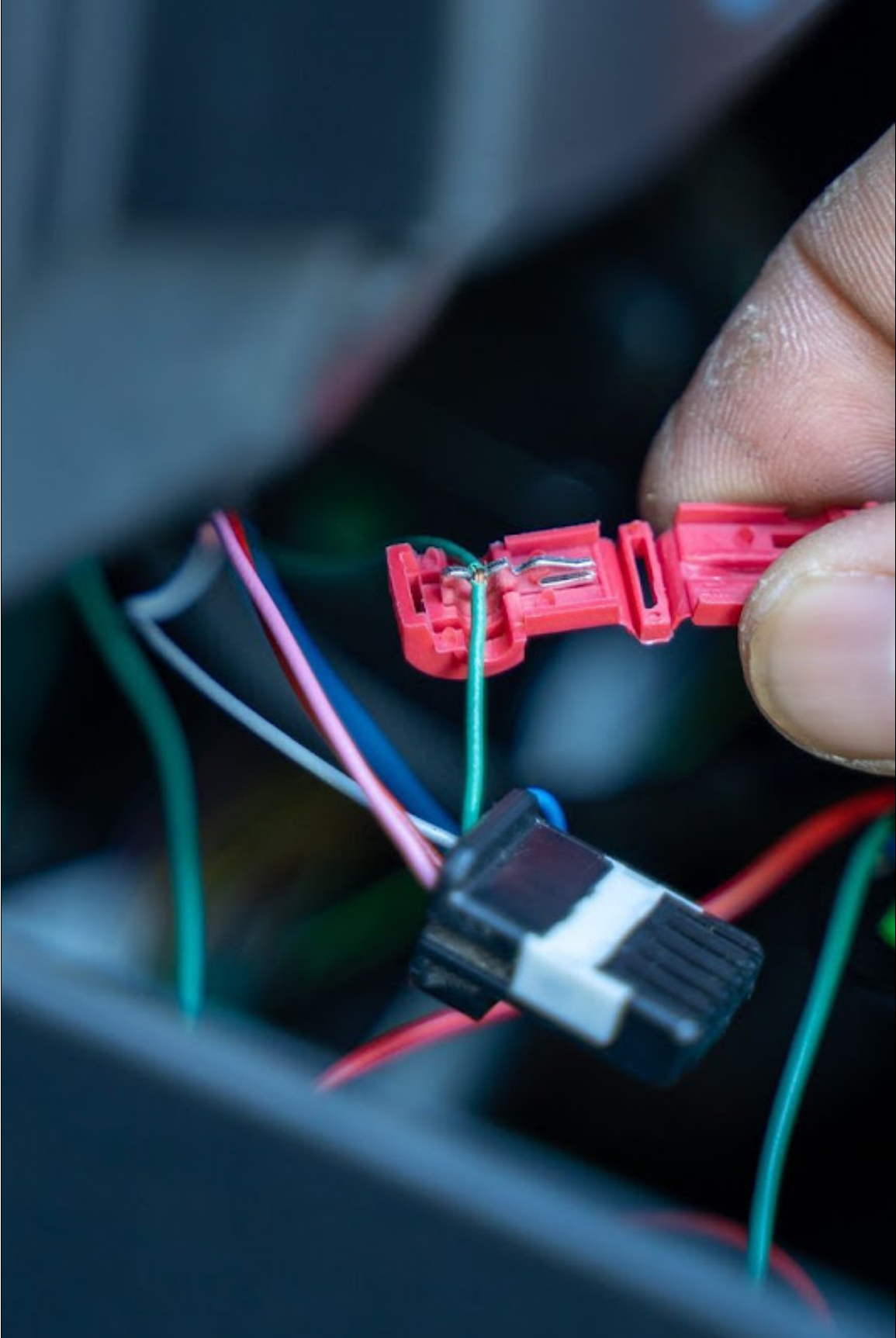


### **Step 12: Factory Fit Dash Switch Lighting**

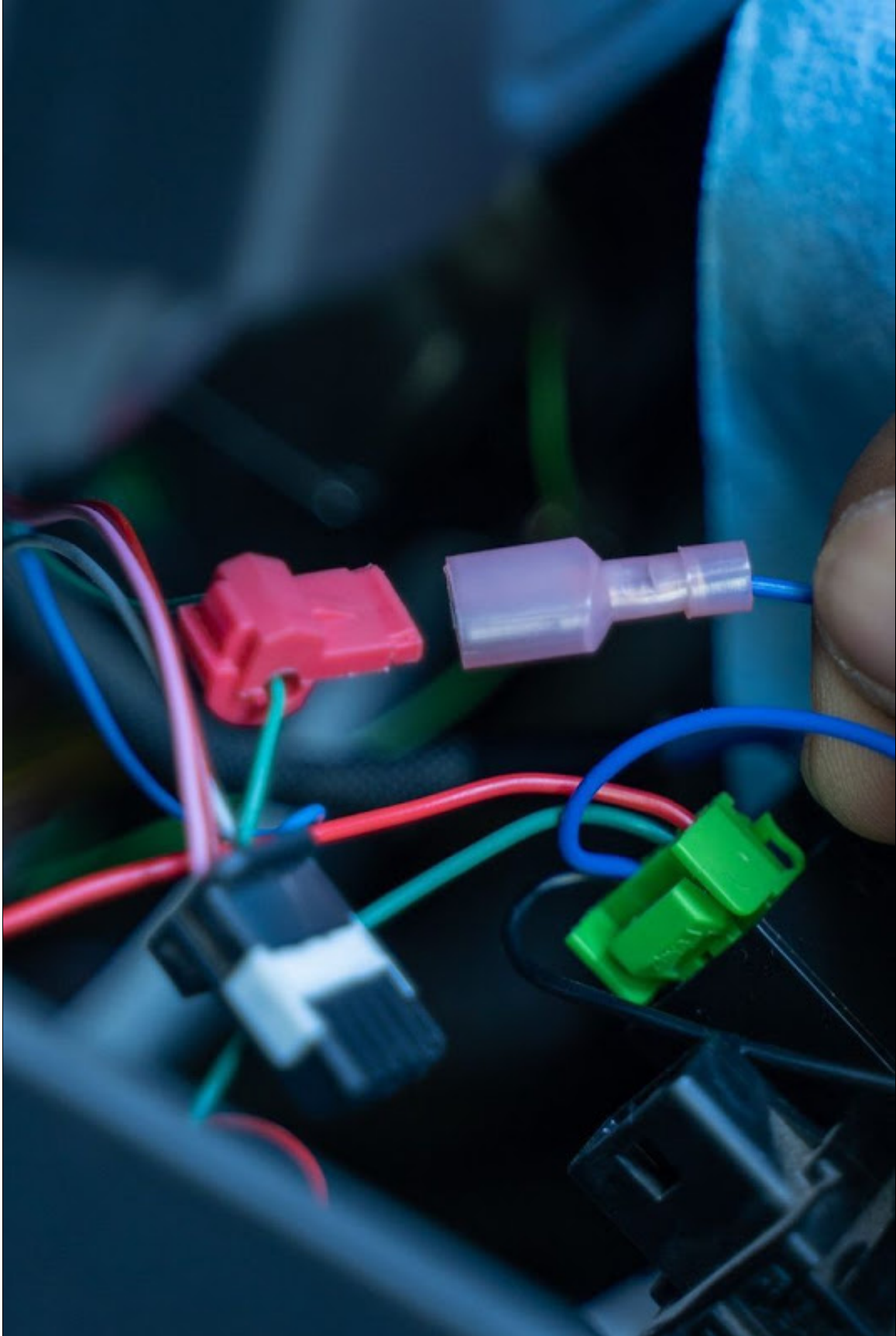
Disconnect the green plug from the switch( if you haven't already ) and run the green plug through from the inside of the dash panel so it's hanging out and then connect it to the Factory style dash switch. Pull the switch back into the pocket until it clicks. You should have only 2 wires left: The blue wire and the black wire from the switch. At this point the switch will activate the KDSS harness but the switch LEDs will not light up. Please check this before proceeding.















## **dash switch lighting**

(4runner will t tap into front defrost switch )

(Gx will t tap into trac off switch

Remove the plug from the back of the defroster switch( or trac off )Review the colors of wires.

### **4runner**

2010-19 : Blue wire from factory style kdss dash switch t taps into green wire . Black wire t taps into light gray.

2020+ - current 5th gen: blue wire from factory style kdss dash switch t taps into white wire. Black wire t taps into green wire.

### **Gx460**

Blue wire from factory style kdss dash switch t taps into dark green and the black wire t taps into the white wire with black pin stripe. You may have two. Either one works.

### Step 13: Verify Functionality

Before snapping the dash panel back in place, turn on the engine and verify a few things:

- ✔ When you press the switch in, your KDSS dash light comes on (means KDSS is off)
- ✔ When you press the switch in, your KDSS button lights up
- ✔ With your headlights on, your dimmer switch will dim the KDSS button up and down

If you encounter issues, review this document and check all of your wire connections to troubleshoot. If you have any further issues or questions please reach out to me via Instagram: [https://www.instagram.com/dr\\_kdss/](https://www.instagram.com/dr_kdss/)

Thank you and enjoy!

DR KDSS