



Ram Auxiliary Switch Kit

FOR 2025+ Ram HD Equipped with 14" Screen

NEW PRODUCT

Please visit www.aev-conversions.com to view the most current installation guide for this product.

This is a new product and we want to make sure that you receive the latest and most accurate information based on customer feedback, product revisions, and/or model year updates. We value customer feedback, so we encourage you to contact our Technical Support department if you have any suggestions on how to make the installation of this product easier or if you have any questions regarding the installation of this product. AEV's Technical Support can be reached by email at tech@aev-conversions.com or by giving us a call at (248)-926-0256.

INSTALLATION GUIDE

**PLEASE READ BEFORE YOU START**

To guarantee a quality installation, we recommend reading these instructions thoroughly before beginning any work. These instructions assume a certain amount of mechanical ability and are not written nor intended for someone not familiar with auto repair.

INCLUDED PARTS	QTY	REQUIRED TOOLS
Switch Bezel	1	Common Hand Tools
Rocker Switch	3	1 1/2" hole saw
Rocker Switch Faceplates	3	1/8" Drill bit
Main Harness	1	
Switch Harness	1	
Fuse Kit	1	
Nylon Spacer	2	
M8 Nut	2	
M4 Screw with washer	2	



I. VEHICLE PREPARATION



In the interior of the vehicle, remove the rubber organizer by pulling up.



Once removed, you will have access to two T20 screws that can now be removed



From here, the screen can be removed.

To remove the screen, firmly pull from the top and bottom.



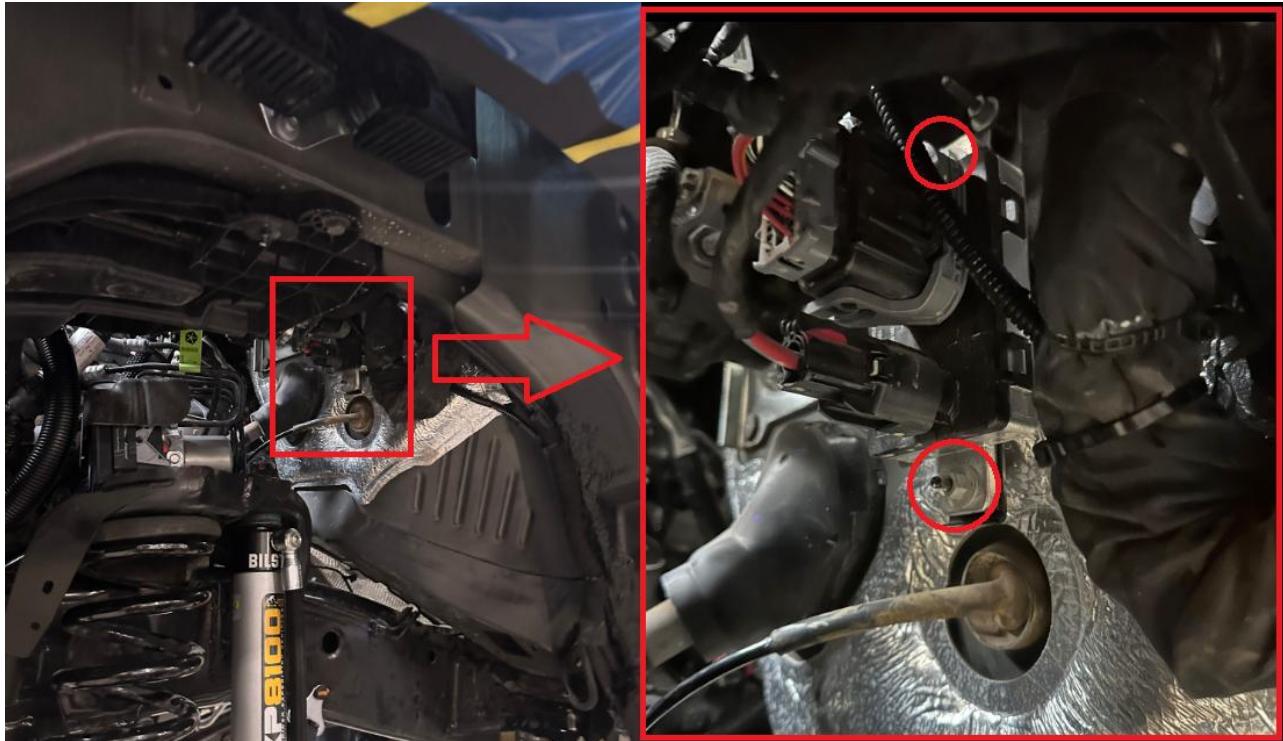
Once removed, the following harnesses need to be un-plugged from the back of the screen.

The screen can now be set aside in a safe location.

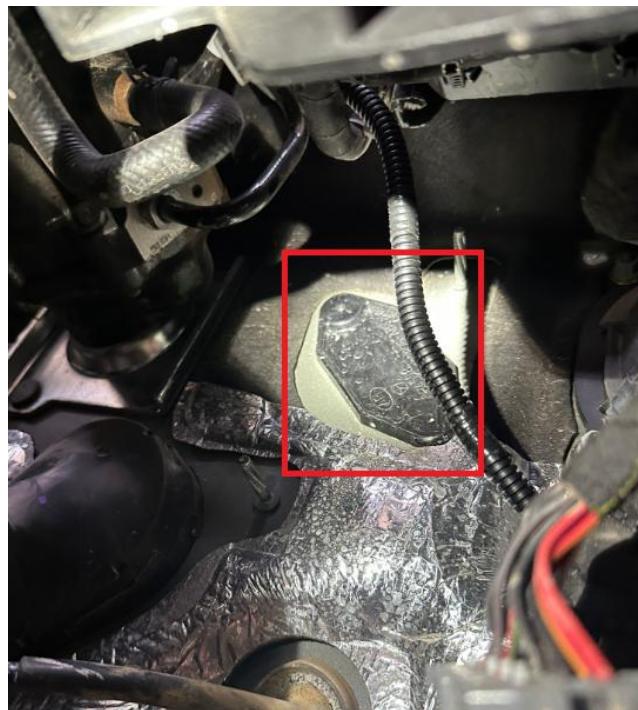
The final step to prepare the vehicle for installation is to remove the driver side front wheel and wheel liner.



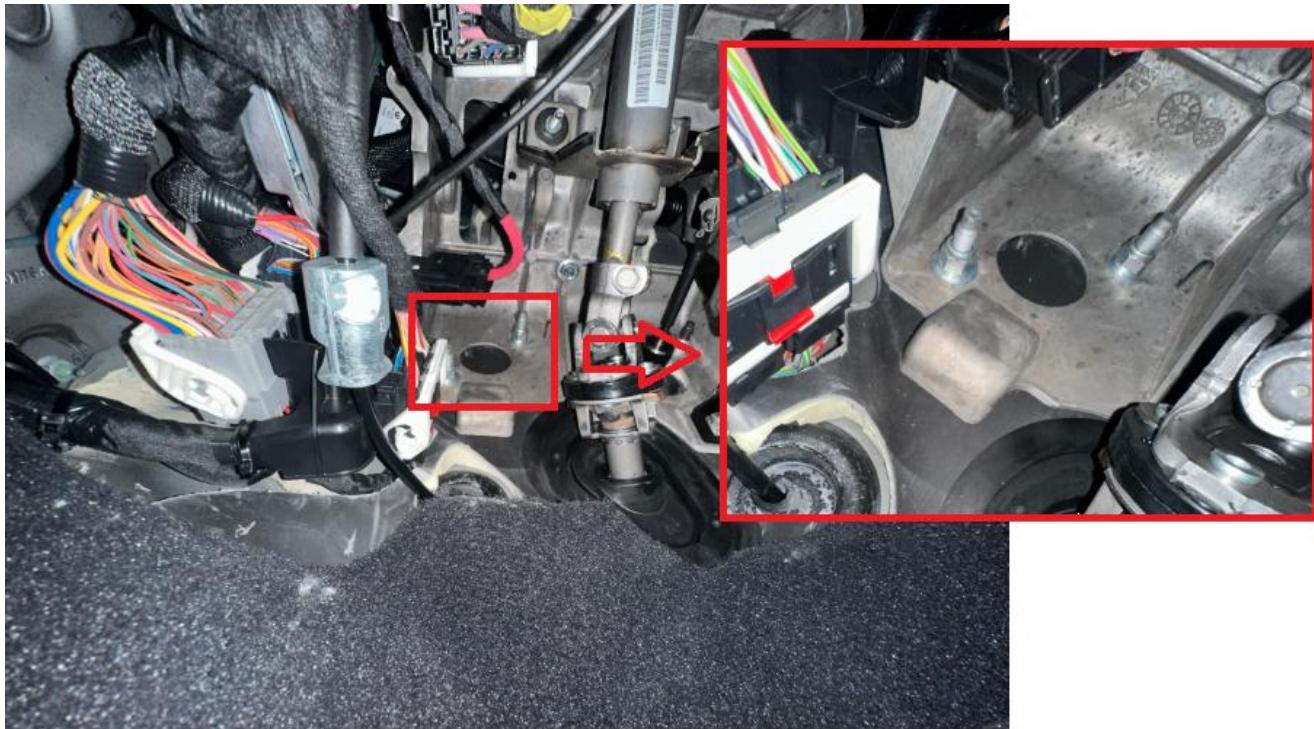
II. INSTALLATION



Begin by removing the module above. There is one nut on the bottom, a second on the top, and a third to the left of the bottom plug. Once all three nuts are removed, pull the module away from the mounting studs.



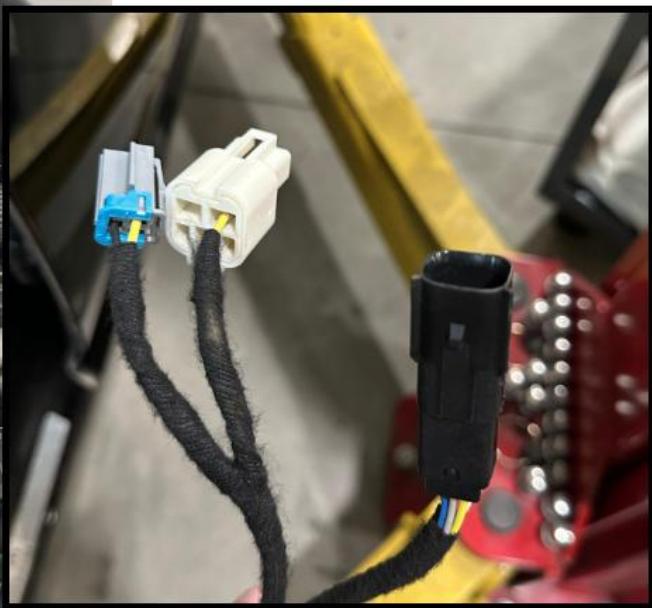
Once removed, you will uncover the plate picture above. This plate will be removed from the driver's foot well.



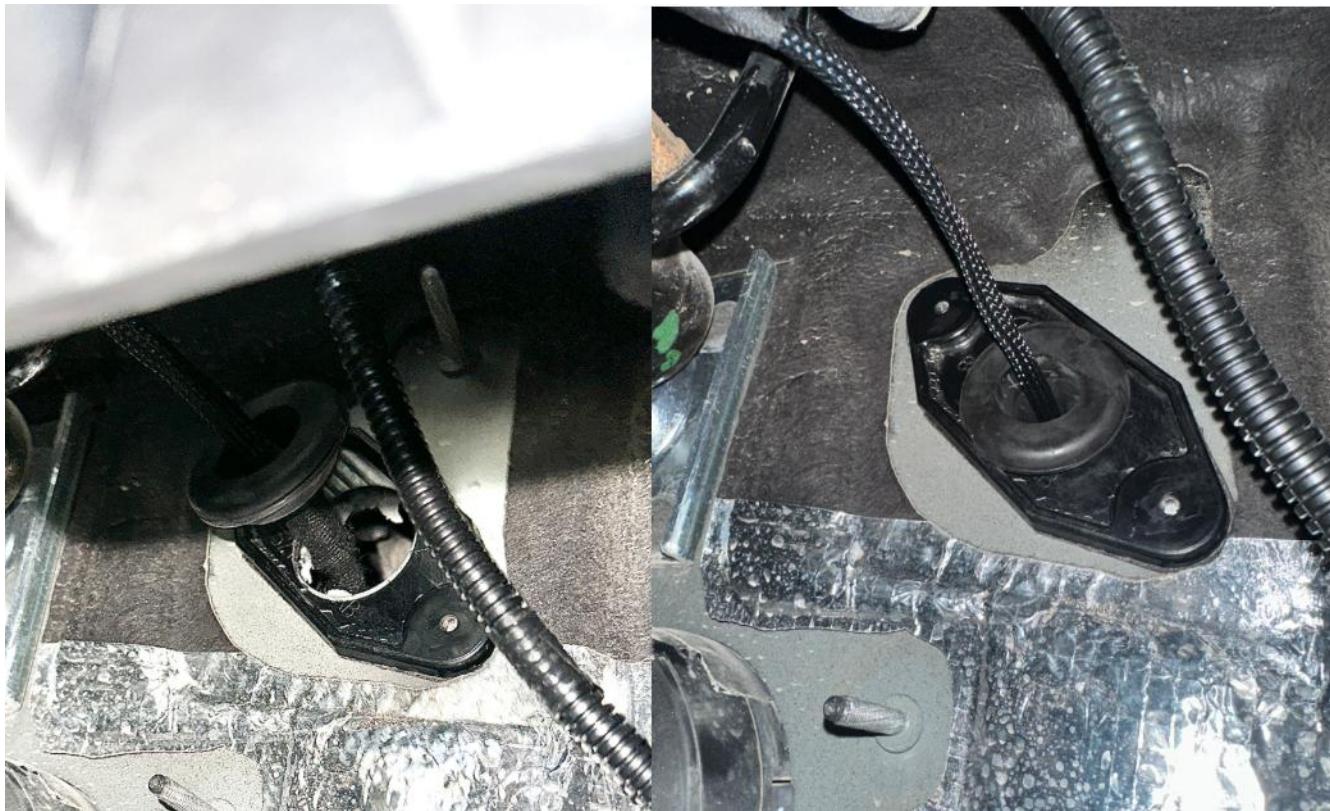
Looking up into the driver's foot well, locate the steering column and look up and to the left. Here you will find the plate and the two nuts retaining it. Remove the two nuts and remove the plate.



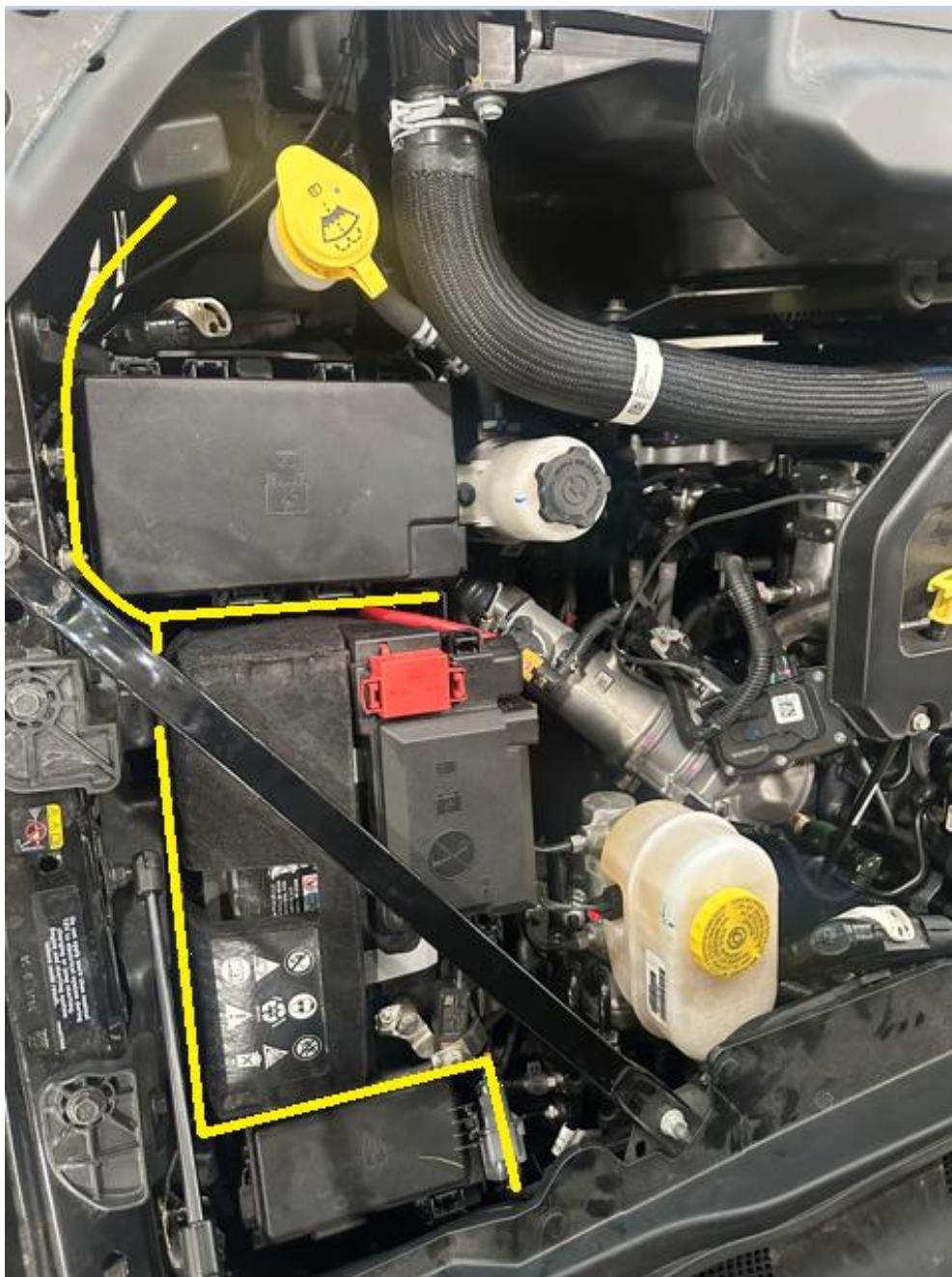
With the plate removed, drill a $1 \frac{1}{2}$ " hole through the center. If your truck has a rubber seal between the plastic plate and steel, cut a hole large enough so that the harness can pass through.



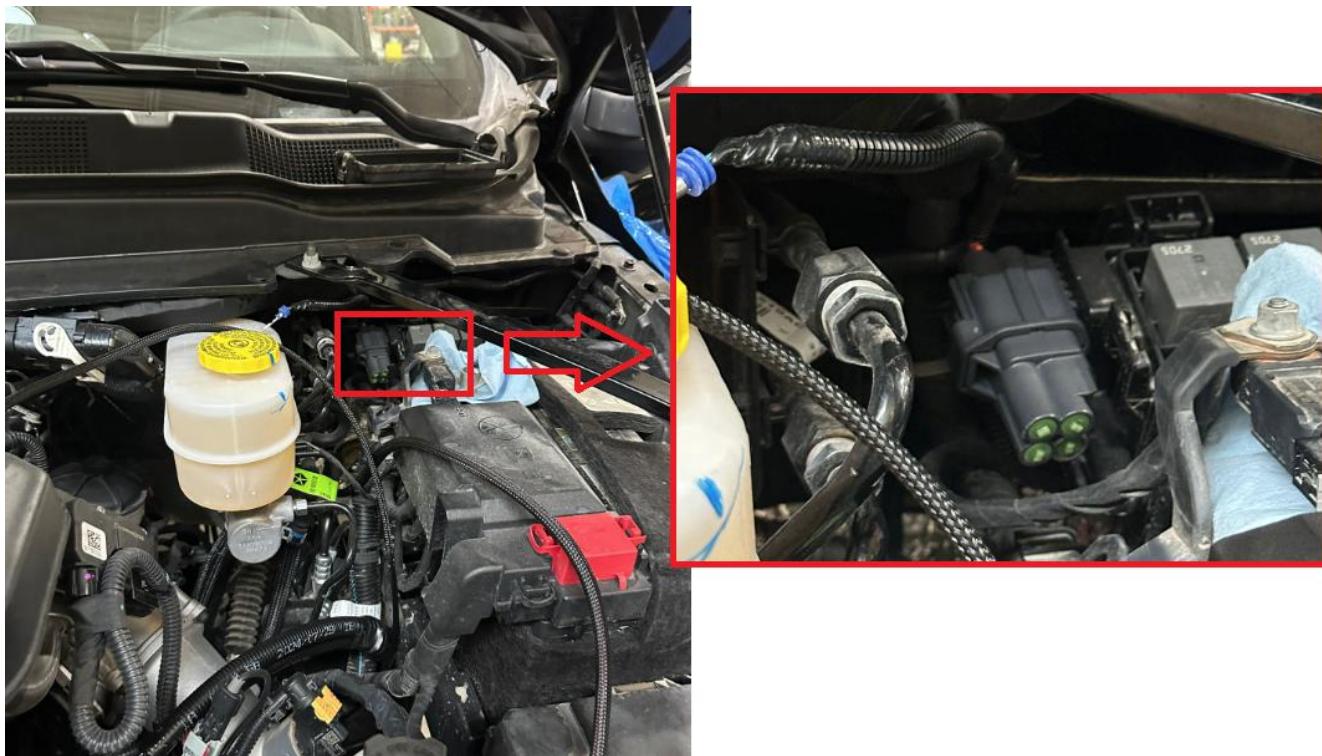
Begin routing the harness by feeding the three ends in the right image down through the engine bay. The wires get ran down beside the fuse box denoted by the red box.



Re-install the black plastic plate and route the harness through this hole, utilizing the end with the three plugs that had been routed down from the engine bay. The harness gets fed through this hole up to the grommet and the grommet is to be seated around the black plastic plate to seal off the firewall.



In the engine bay, the wiring harness will be routed as illustrated above in yellow.



Secure the grey connector with four green plugs to the side of the fuse box, behind the battery.



Begin routing the harness by passing between the fuse box and the battery



Continue routing alongside the battery, tucking the harness down along its side.



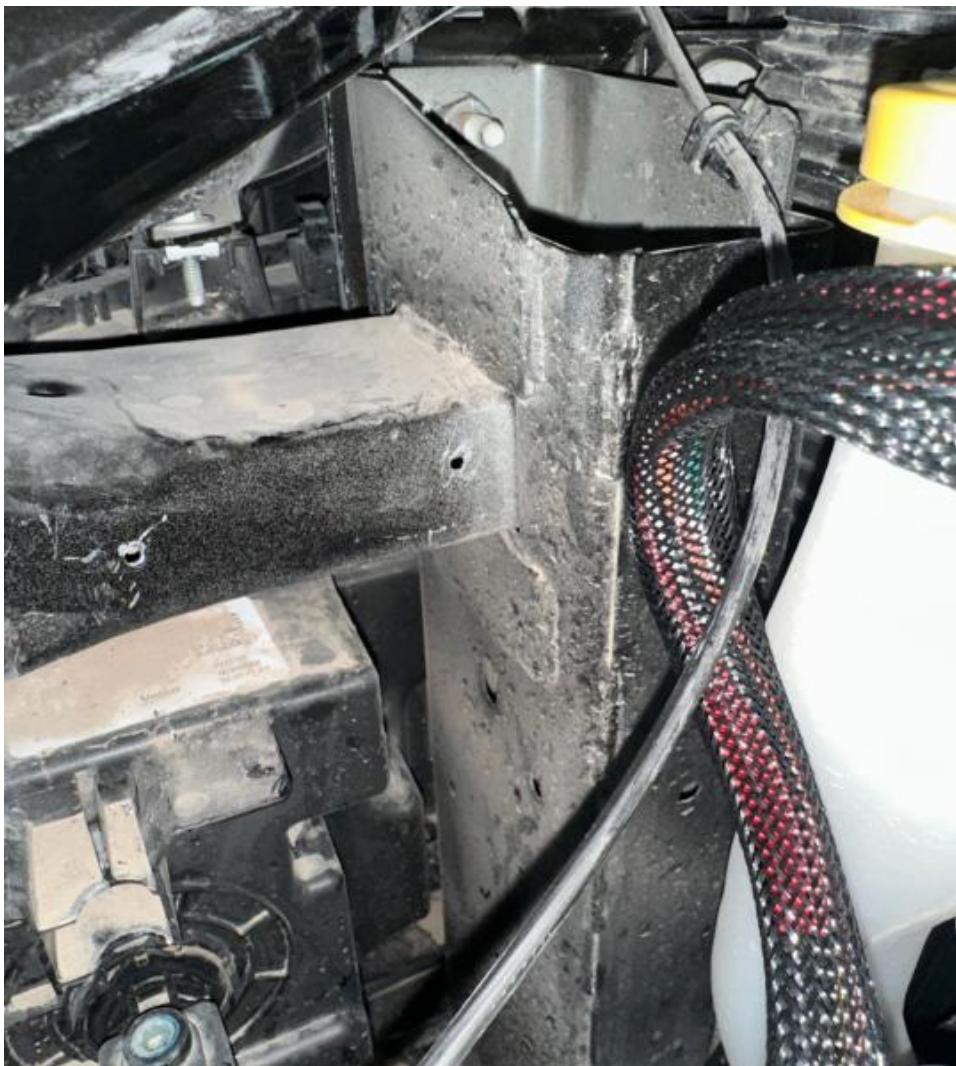
Route the single terminal between the battery and forward fuse box.

The remainder of the harness with its fuse box can be routed outside of the vehicle's fuse box and towards the headlight.



The fuse box is mounted to the support beam behind the headlight.

Hold it in position and mark the two holes to be drilled.



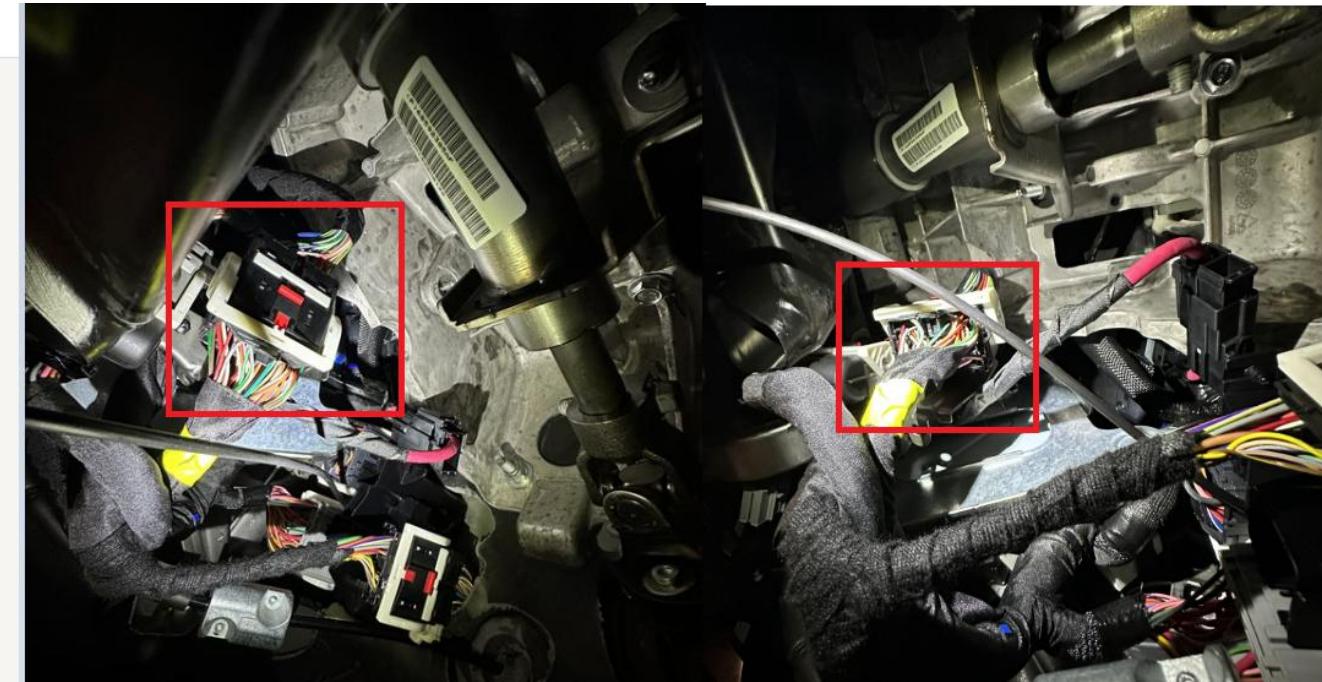
Use a 1/8" drill bit to drill where marked



Remove the fuse box mounting bracket from the fuse box and secure with the provided screws.

Once mounted, the fuse box can now be snapped back on.

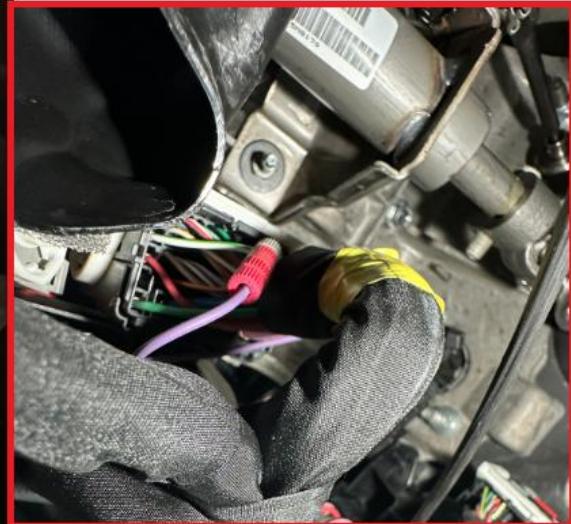
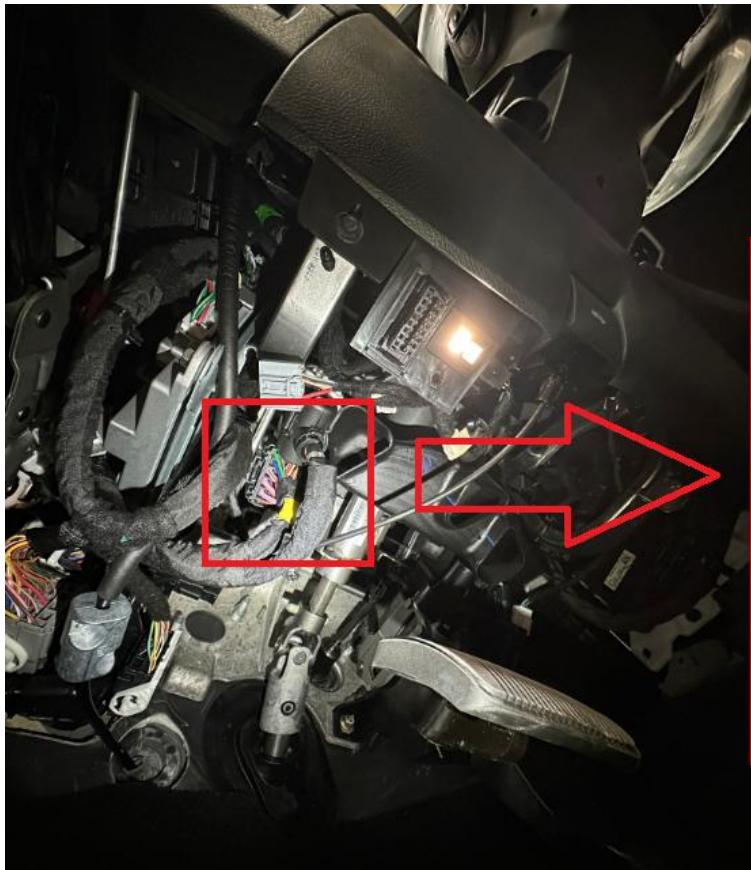
The harness routing in the engine bay is now complete. The following steps will be performed inside the vehicle.



Begin by tapping into the OEM harness with the purple wire and provided pos tap.

To locate this harness, look up in the driver footwell. It is located behind the OBD2 port and the driver footwell vents

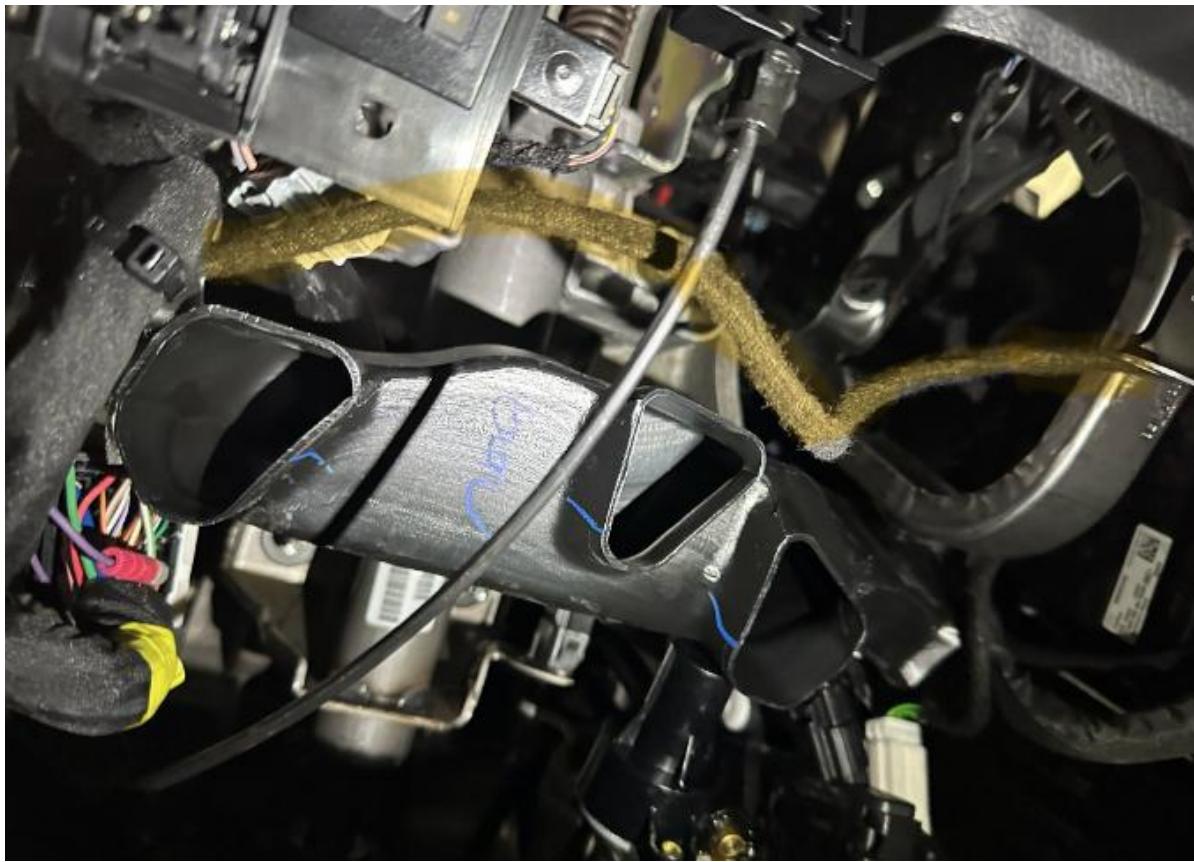
This plug is orientated vertical in the footwall.



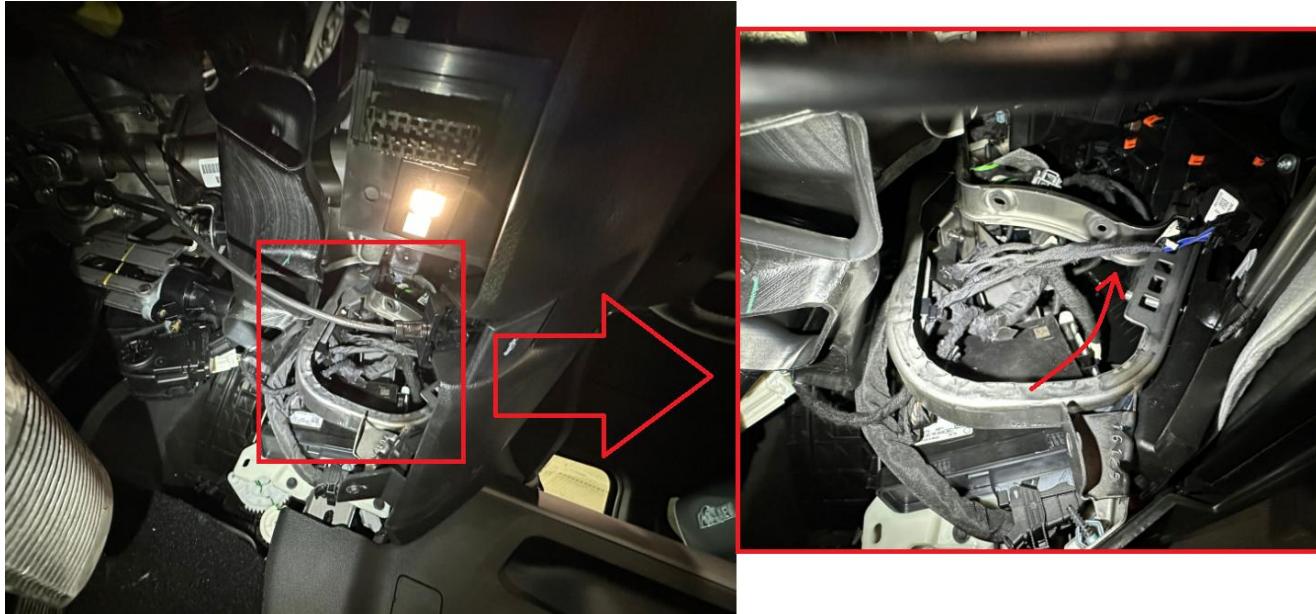
Unscrew the grey cap and place around the white with green stripe wire found on the harness pictured above.

Screw the cap back into the body.

Using the provided Posi tap, unscrew the red side and insert the loose purple wire through the cap and into the body of the tap. Screw the two back together.

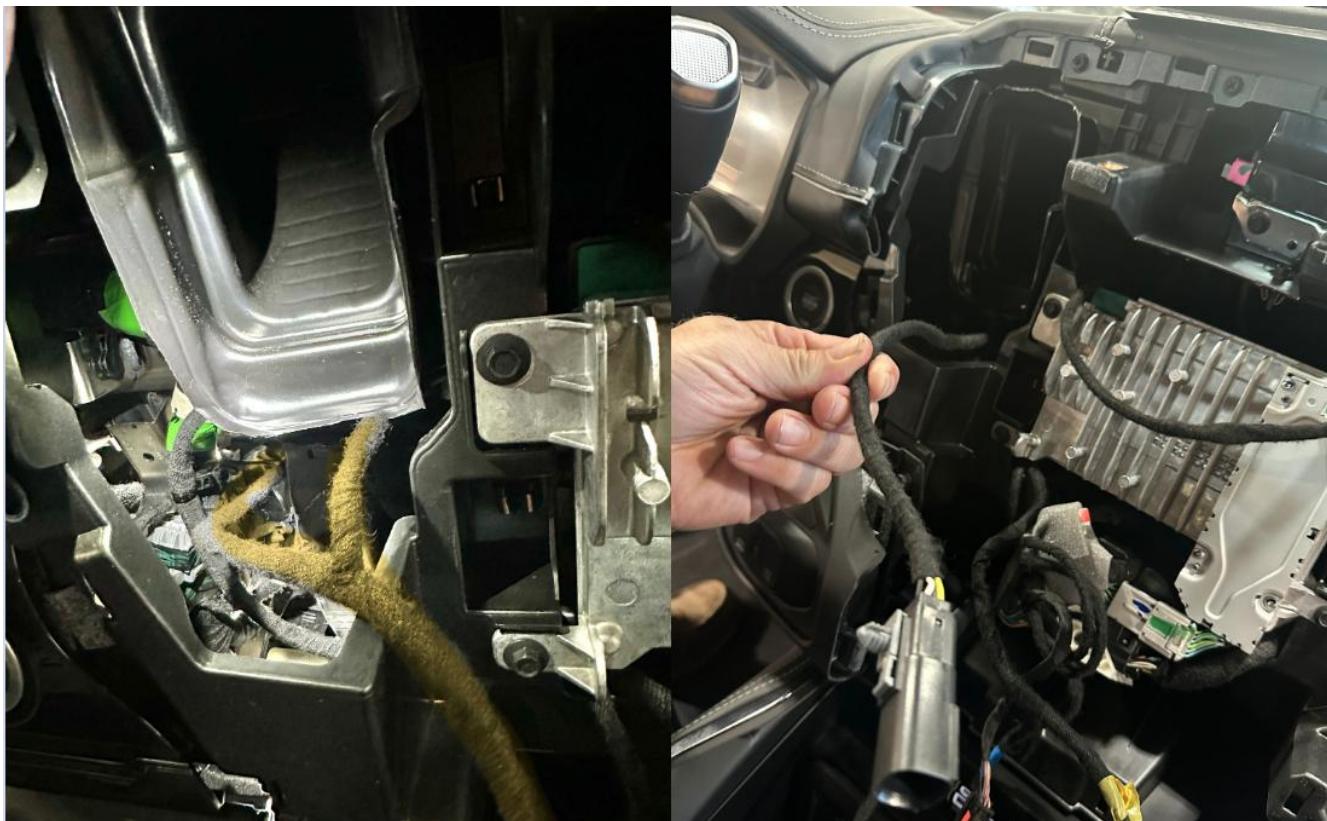


Begin by routing across the driver footwell by going around the driver footwell air vents.



Once the harness has crossed the driver footwell, feed it up to the air vent that is on the left-hand side of the center display.

To do so, go through the metal support as pictured above. Once through, feed it vertically until you can grab the end



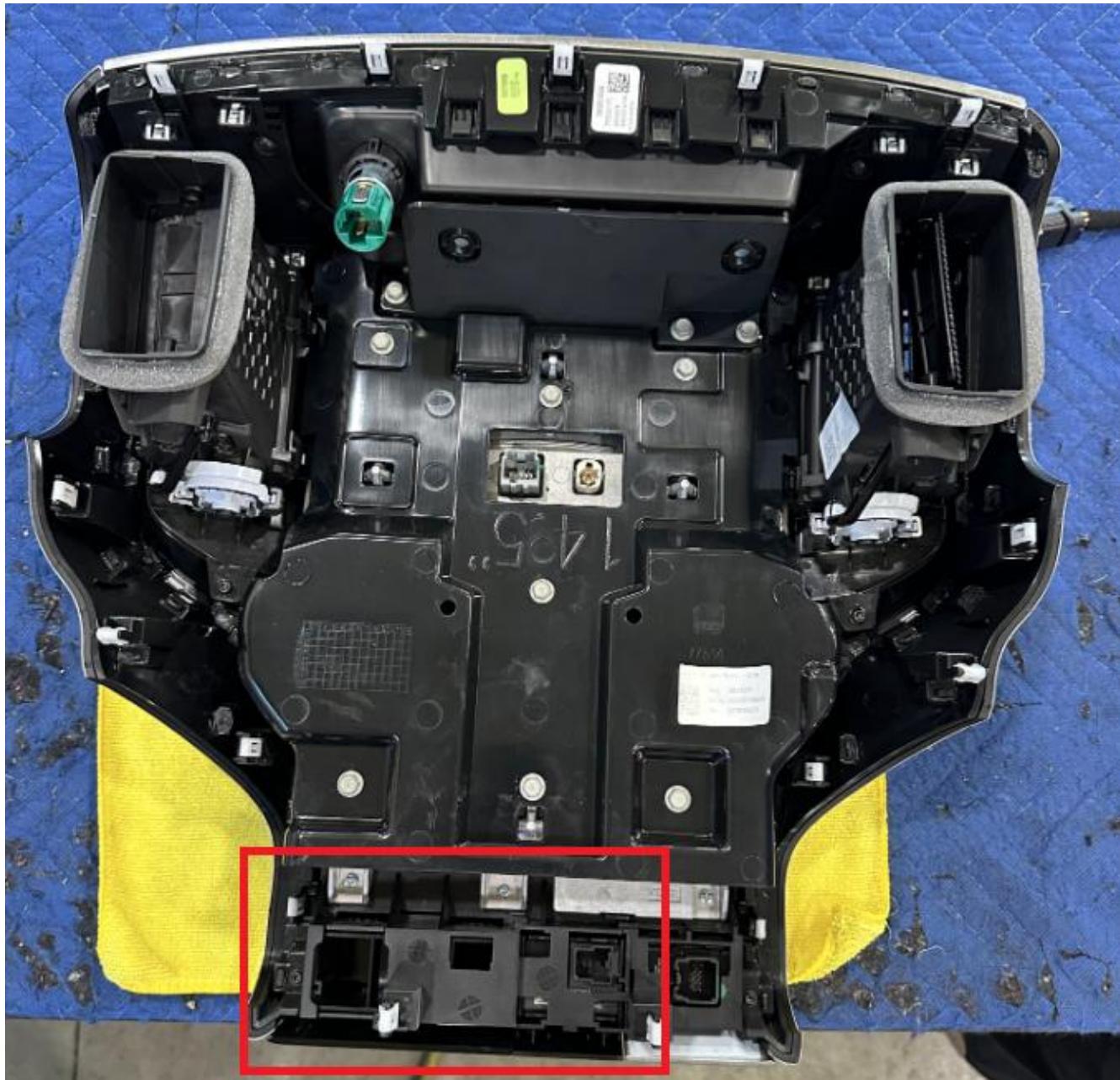
Pull the harness all the way through beneath the vent



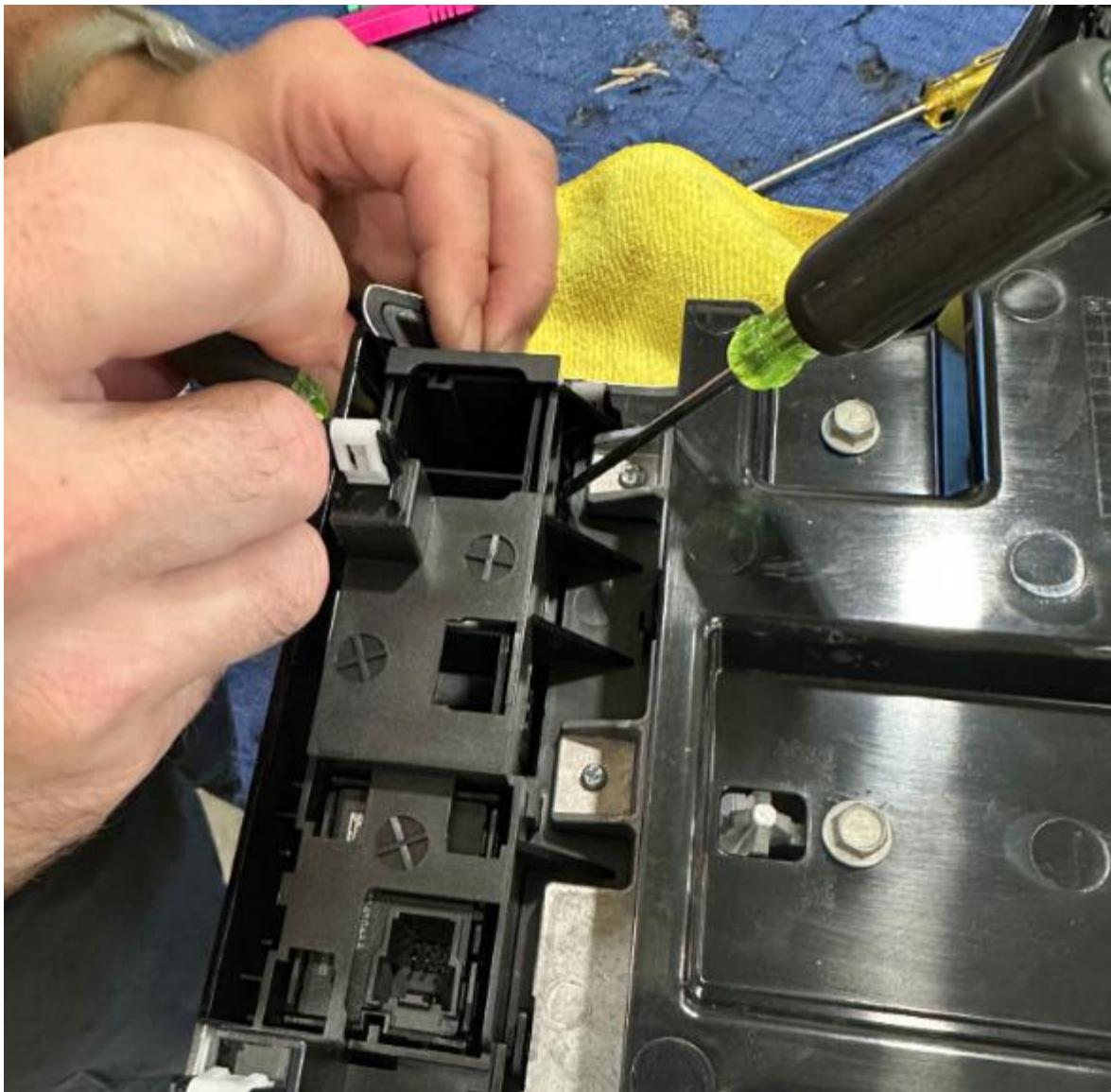
Connect the wide plug on the harness to the blue plug that originally went to the display



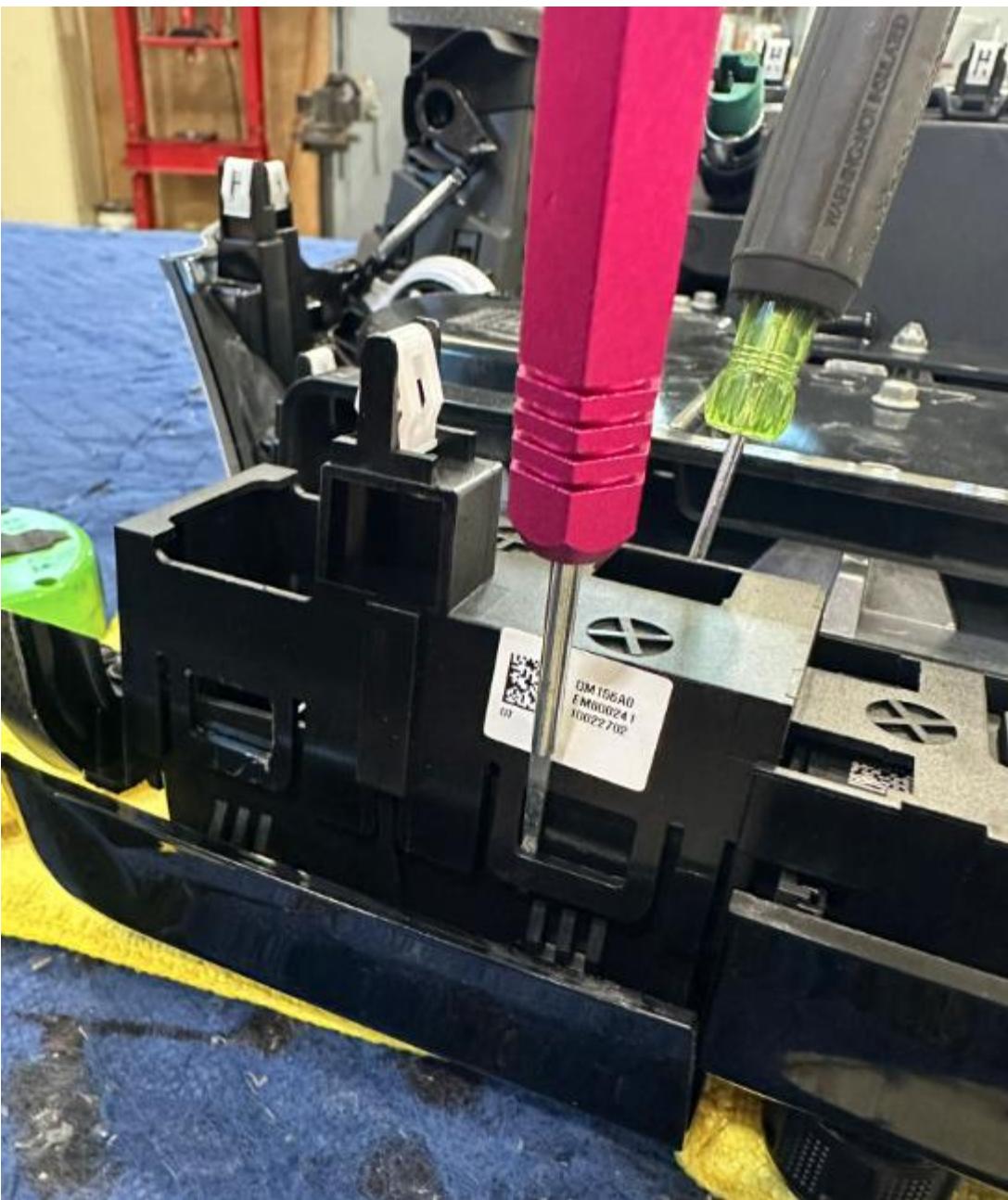
III. BEZEL INSTALLATION



To install the bezel/Switches, begin by going to the backside of the screen to remove the OEM bezel



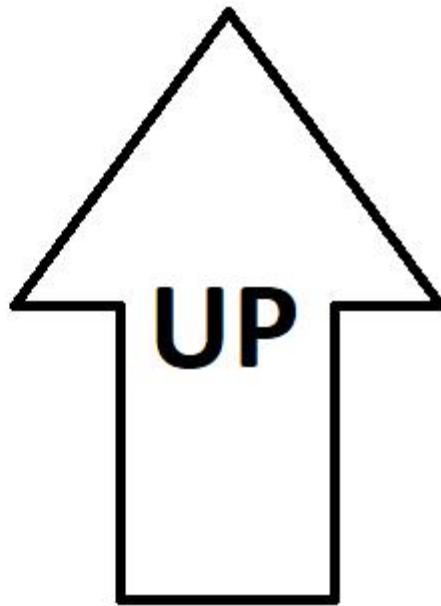
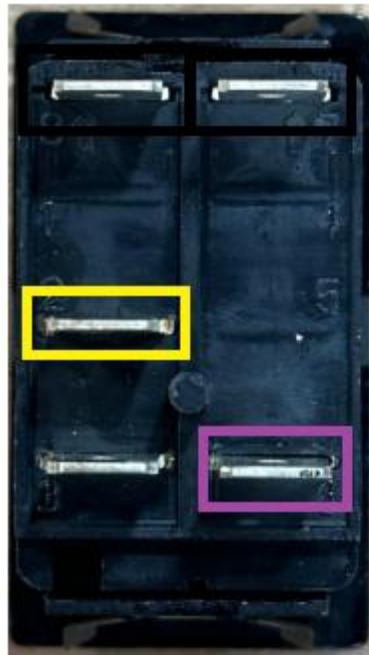
Locate the retaining tabs and use pry tools/screw drivers to release the tabs



Alternate image showing tab decompression for removal.

Ensure to be careful when removing the bezel and to not damage any of the tabs.

There are 4 tabs if your truck does or does not have the trailer assist.



Snap the switch faceplates onto the switches. The text should be at the bottom of the switch and the image of the light on the top.

AEV recommends the two driving lights to be the center and left side. The back to be on the right.

With the switches snapped into place, plug the wiring harness into each switch.

As shown in the image above, each switch will have two black wires to the top two prongs, a yellow in the middle, and purple in the bottom left.

Going from left to right when looking at the rear of the switches, the bottom left is as follows:

Left – Grey
Middle – Blue
Right – White



Snap the AEV switch bezel into the display.

Be mindful of the harness and carefully route it through the opening



Plug the AEV switch harness into the fuse harness



The AEV harness plugs into the connector pictured above

Connect all other harnesses to the display and install back into the vehicle.

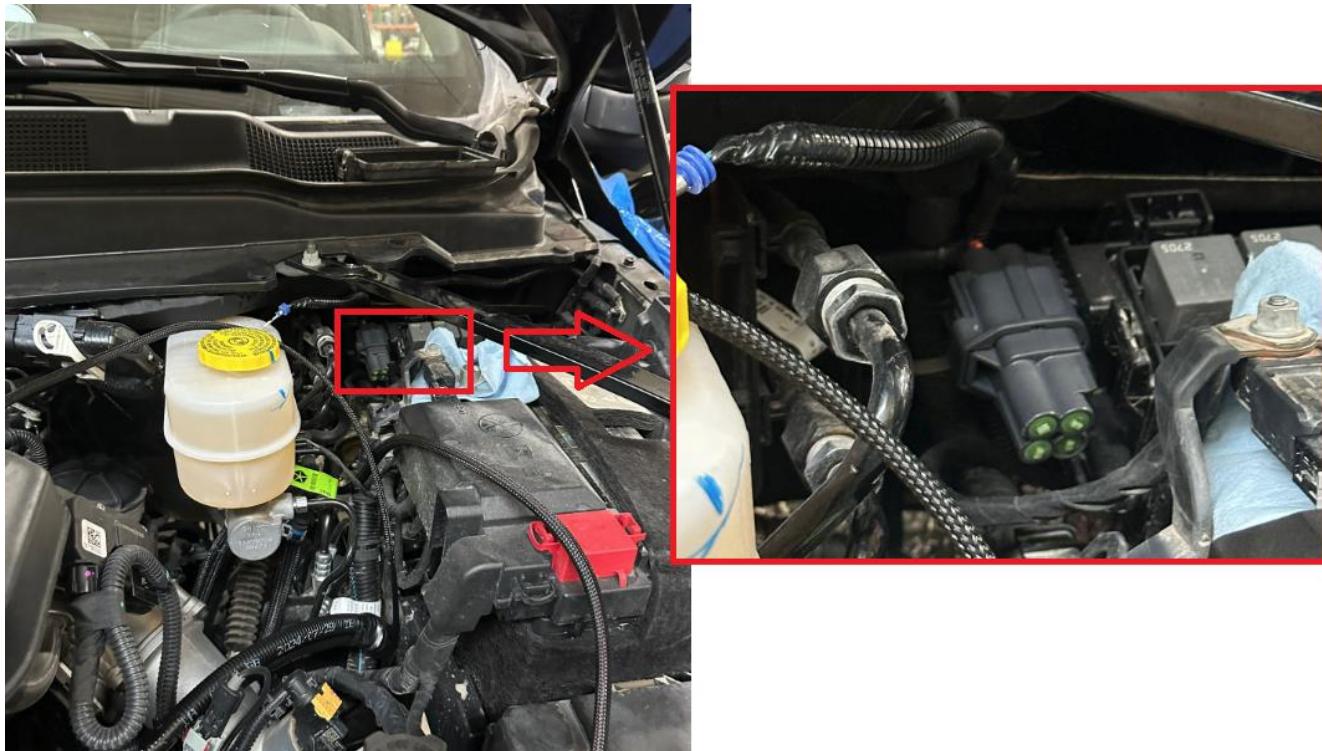


Using the provided fuse kit, take the power wire from the harness and secure it to the open terminal found on top of the battery on the driver's side.

Ensure to put a hole in the bottom of the rubber cap to ensure moisture can escape.



IV. CONNECTING ACCESSORIES

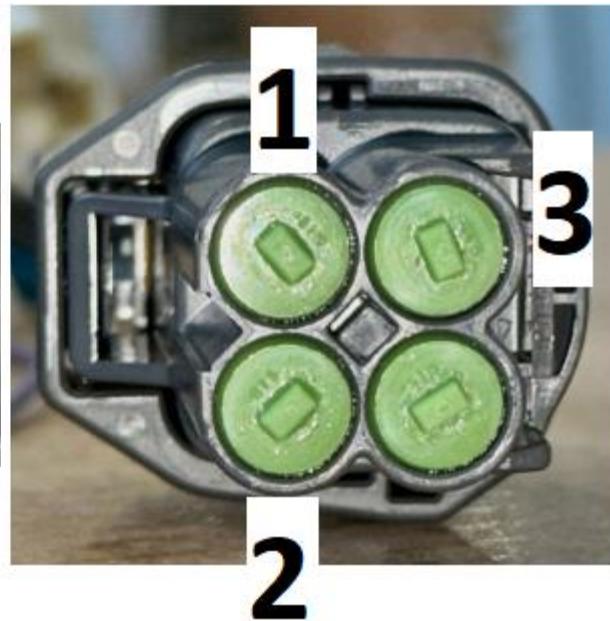


To wire accessories into the AEV aux switches, locate the connector with the green rubber caps that was secured to the side of the fuse box.

If utilizing your own harness, you must have a ground and power. Ground the harness to any bare metal on the vehicle and the power goes to the connector pictured above. To utilize the connector, a Yazaki 7114-4140-02 must be installed on the power wire of the harness.



1 2 3



The diagram above shows which switch corresponds to the terminal on the plug. Switch 1 being the left most switch

Each of the switches is rated for 20amps.

If installing the AEV Ram lighting harness they plug in as follows:

The front 7000 series lights will occupy terminals 1 and 2. The orange wire to terminal 1 and the yellow to 2.

The rear aux light harness will occupy terminal 3.

