



# Aux Switch Harness

## FOR 2024+ GM HD Trucks

### NEW PRODUCT

Please visit [www.aev-conversions.com](http://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](mailto:tech@aev-conversions.com) or by giving us a call at (248)-926-0256.



**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
Main Harness	1	Common Hand Tools
Fuse Box Bracket	1	Plastic Trim Tools
Switches (If installing)	1	1 7/16" Hole Saw
GMZ Bezel (If installing)	1	Rivet Nut Setter
Chevy Bezel (If installing)	1	

## I. VEHICLE PREPARATION

Begin by removing the interior plastics detailed in the images below



1. Pull away the driver's side center console footwell plastic. To do so, you must remove the access panel and bolt first. Then pull off the panel by pulling from the bottom.



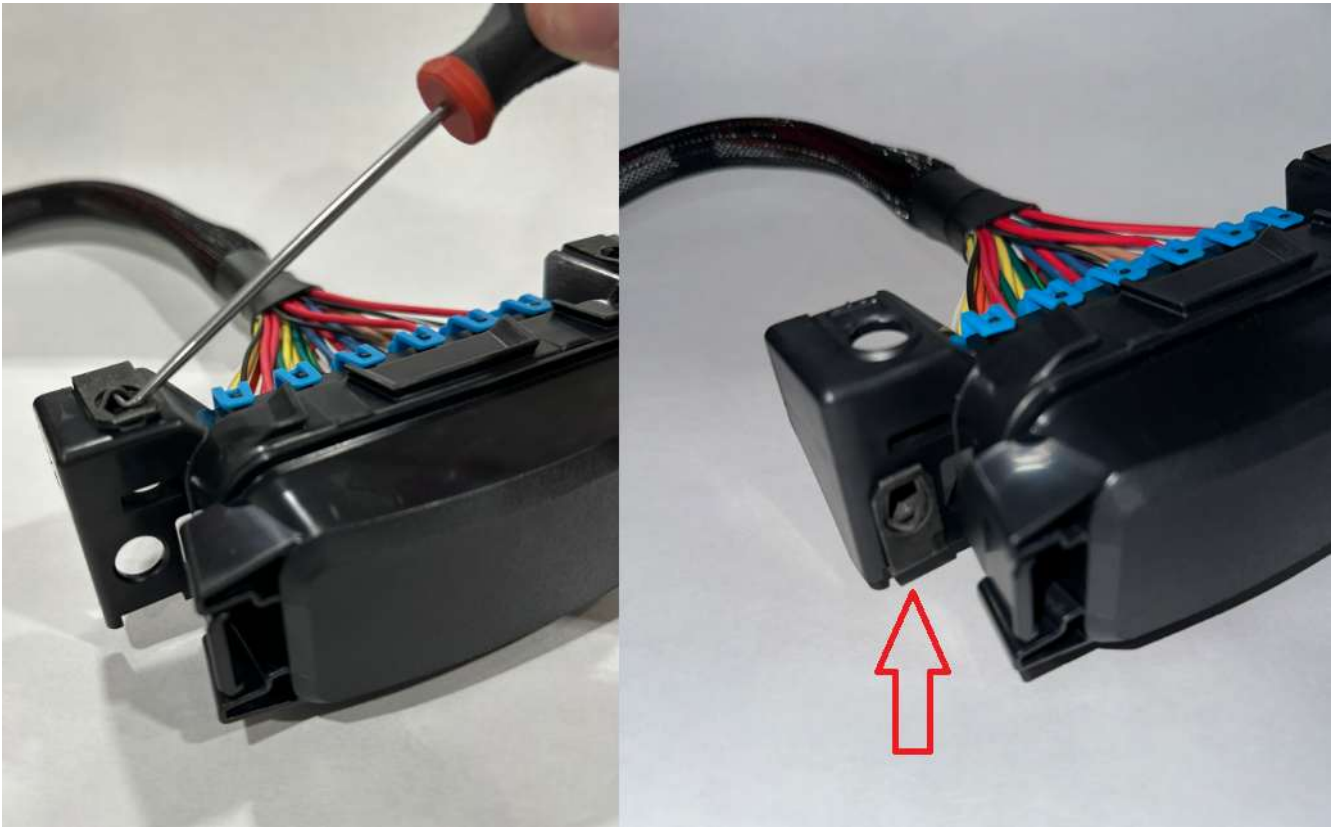
2. Looking up into the passenger footwell, remove the carpet panel by pulling at the plastic retaining clips



3. Remove passenger door sill plastic and seat rail plastic to allow for the carpet to be pulled back in a later step. These will also be easily removed by pulling on the edge of the plastics.



4. Pull away passenger center console footwell plastic. This is done in the same way as the driver's side, but it is important to note that there is no access panel and additional fastener.



5. On the AEV aux switch harness the fuse box has pre-installed U-nuts. The orientation of the U-nuts on the fuse box needs to be moved on both sides. Remove by lifting on the small retaining tab and slide off. Reinstall in the position shown

**Although not pictured, it is required to remove the front right wheel liner.**

## II. GMC Preparation



1. Remove the knee bolsters from the driver and passenger sides. This is done by pulling back on the part.



2. Remove the two bolts picture from the driver and passenger side. On the driver side, the triangular shaped piece will get removed by pulling rearward



3. On the passenger side, remove the fuse panel cover by pulling from the indentation. Once removed, remove the uppermost bolt circled above



4. The dash trim can now be removed by pulling rearward. The trim extends under the screen, and its removal will allow access to 4 bolts holding the screen in place



5. With the dash trim removed, remove the 4 bolts under the screen securing it. The screen is still retained by clips on the backside.



6. Remove the screen and center controls. To remove the screen, first pull from the bottom edge to disengage the clips. Once clips are disengaged, slide the screen up and pull away. There is a hook on the back side that can be seen in the image below.



7. With the screen removed, carefully set it down on the center console to remove the wiring from the back of the screen and set it to the side.

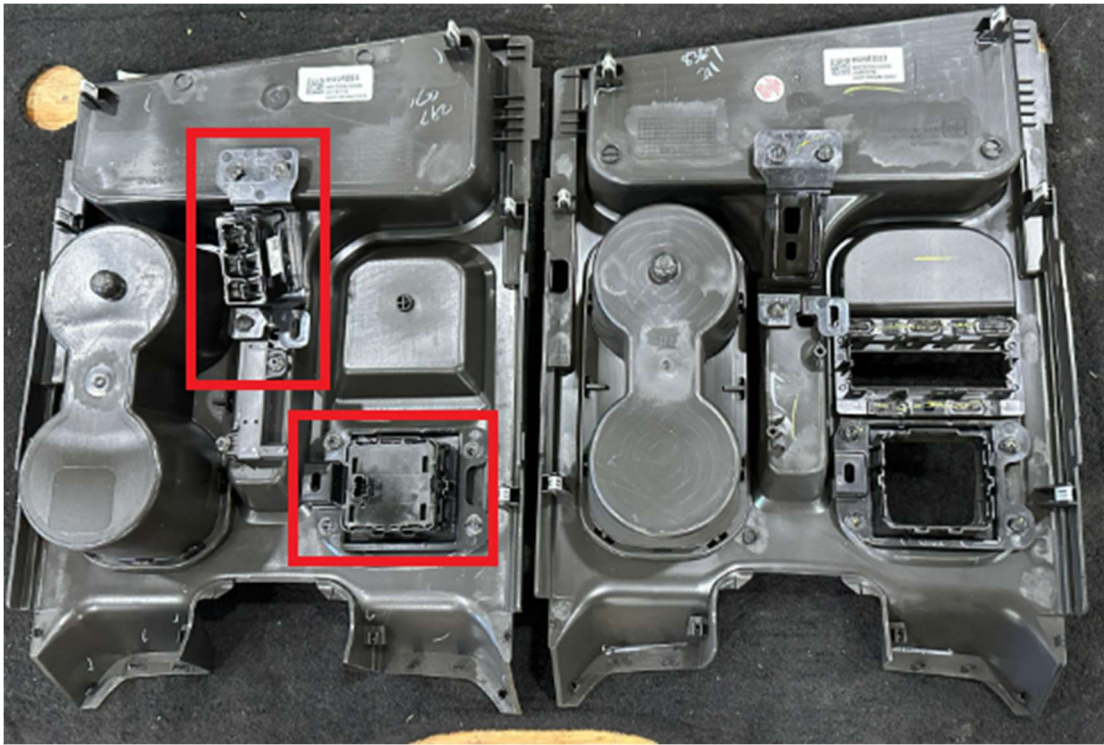


8. Remove the center console by pulling up. This is held in place by clips around the edge of the part.



9. Before fully removing the center console, disconnect the wiring from the bottom.

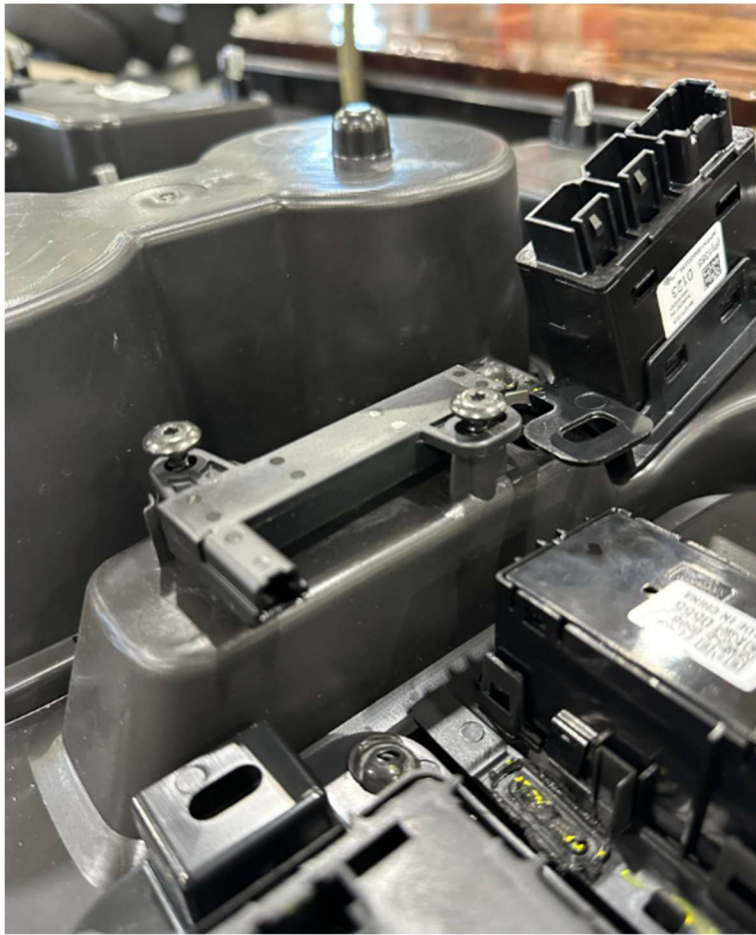
**If installing aux switches, continue following the steps. If not you may skip the chevy preparation section and begin installing the harness**



10. Begin by transferring the electrical components to your new bezel as well as the cup holder bezel



11. Remove the trailer brake controller by unclipping the tags around the perimeter. This is best done by utilizing a pick or small screwdriver.



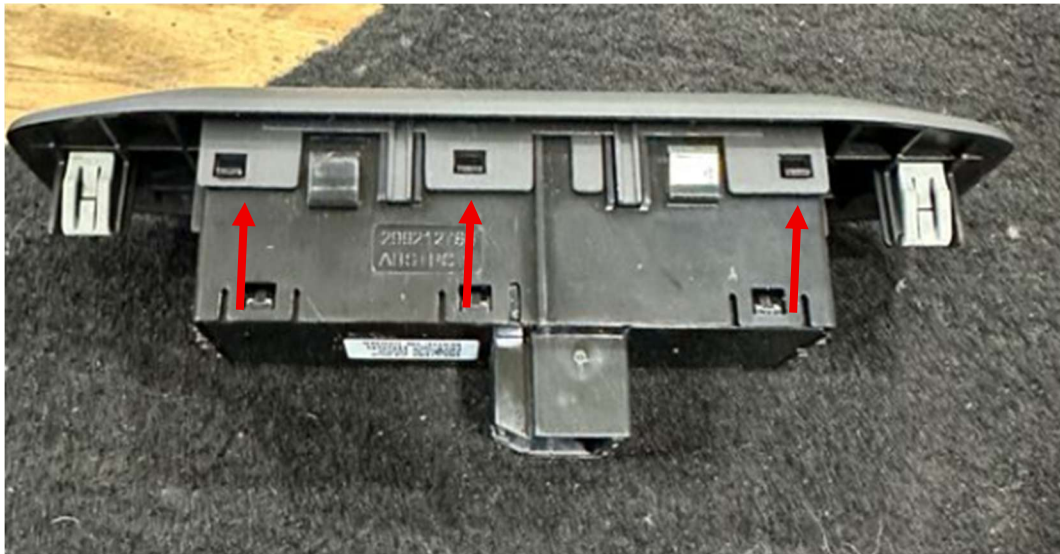
12. Remove the small module by undoing the two screws



13. The USB ports are removed the same way as the trailer brake controller. Disengage the clips around the perimeter and remove.



14. The final component to be removed is the cup holder trim. Once again, this is done by disengaging the clips around the perimeter of the part.



15. The final step prior to reassembly is to prep the aux switches. The bezel needs to be removed that is surrounding the switches. This is held on by six tabs, three on either side. Once removed, this can be discarded as it is not used in the GMC application.

The new bezel can now be assembled with all the components. This all either clip or screw in at the exact same locations that they were removed from. The bezel can be set aside and harness installation can now begin.

### III. Chevy Preparation



1. Remove Driver side plastic on the outside of the dashboard. Use a plastic pry bar to un-snap the plastic.



2. Remove driver side footwell plastic. This can be done by grabbing the lower edge and pulling it by hand.



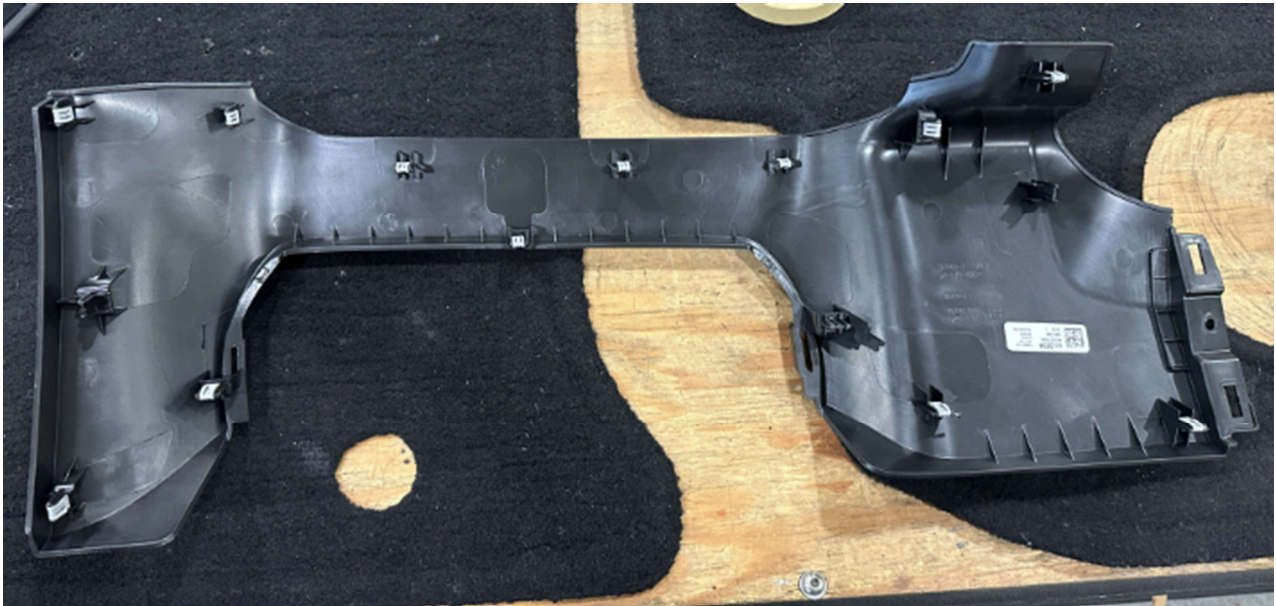
3. Under the steering column, remove the single bolt



4. Remove the side trim panels from the center console on both the driver and passenger sides. This is done by pulling towards the seat to disengage the clips and then sliding rearward.



5. Begin removing the trim piece by beginning on one of the ends. From there, work your way across the dash, pulling rearward to disengage all clips.



6. Image of component uninstalled for clip location reference



7. If installing aux switches, snap them into the new bezel. You can now begin installing the harness

## Fuse Box Bracket Mounting

Follow the steps below to mount the provided fuse box bracket. This will be installed in the same location whether installed on a GMC or Chevy truck.



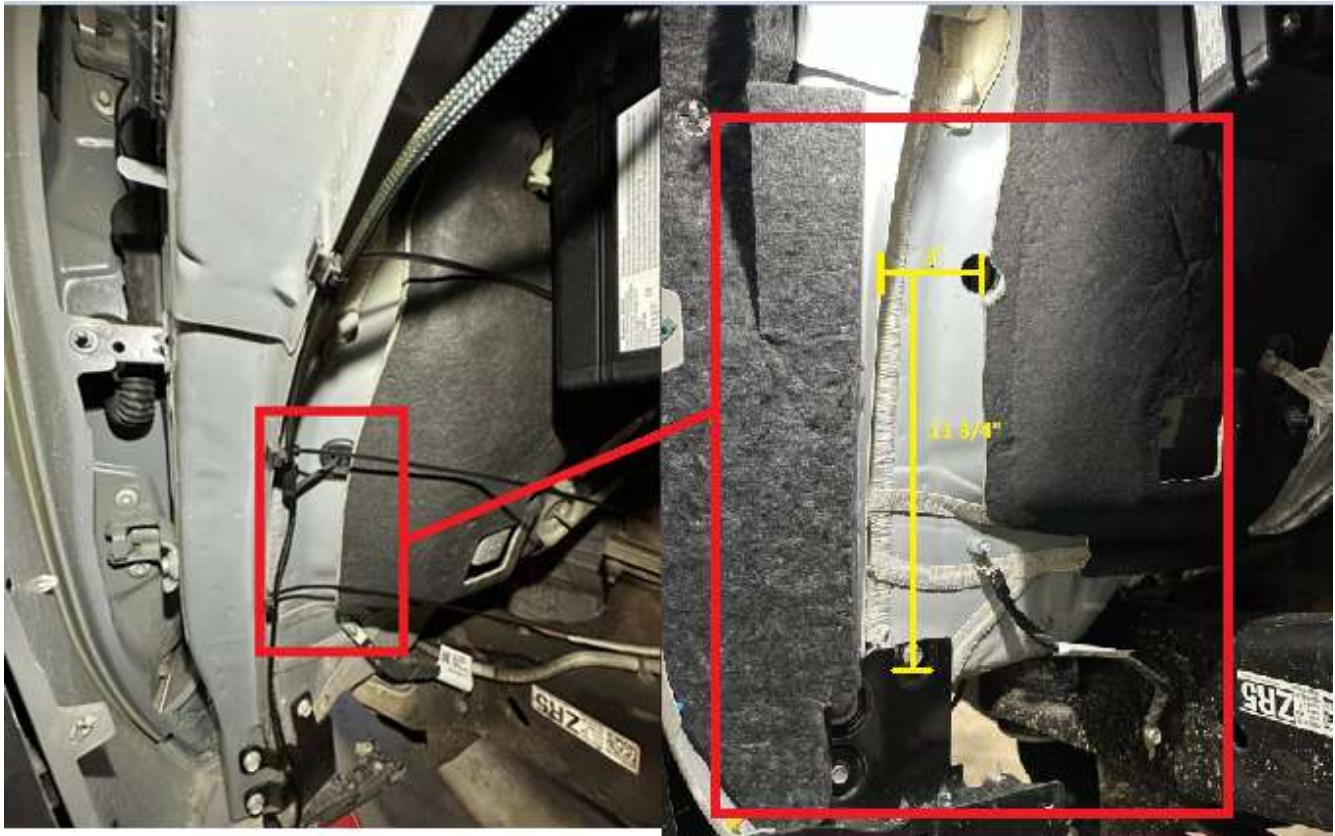
1. Begin by removing the ground stud found on the passenger side near the air box. Place the bracket so that it is hanging into the fender and secure this with the ground stud. This will allow you to properly mark the hole location to drill for the riv nut.
  - a. Mark the center of the slot with a marker or center punch.
  - b. Remove the bracket and drill a 17/32" hole
  - c. Insert the riv nut and set the bracket aside until it is installed in later steps

## Hole for Grommet

For the harness to be routed, a hole must be drilled in the front right wheel well through the firewall. Follow the steps below to properly locate and drill this hole. The image below is looking rearward in the passenger wheel well.

**NOTE: PULL BACK THE CARPET IN THE PASSENGER FOOTWELL TO ENSURE THAT YOU ARE CLEAR TO DRILL AND DO NOT HIT ANY WIRING IN THE VEHICLE. REFER TO PAGE 33 FOR REFERENCE ON WHERE HARNESS COMES THROUGH.**

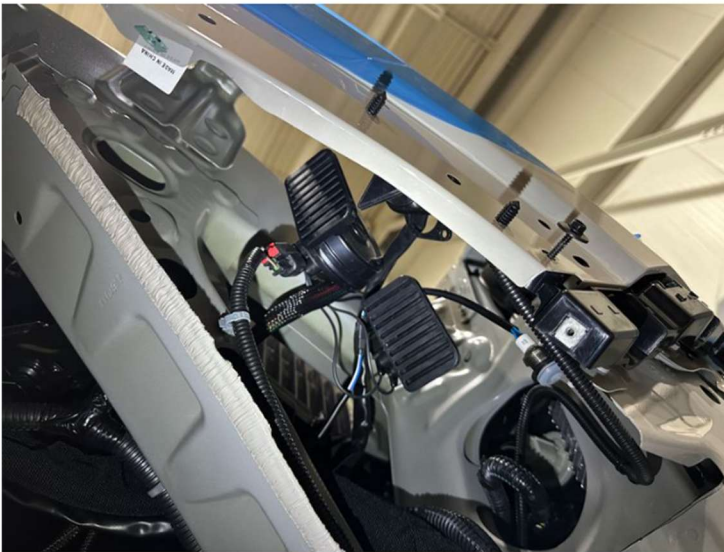
1. Center punch hole using dimensions in image below.
  - a. Measure  $11 \frac{3}{4}$ " straight up from the bottom of the bolt
  - b. Then measure 3" in board from the pinch seam
2. Drill  $\frac{1}{8}$ " pilot hole.
3. Drill hole to size using  $1 \frac{7}{16}$ " hole saw.
4. Deburr edges and rust treat.
5. Trim silencer pad to clear wiring if necessary



## 1. INSTALLATION



1. Begin installation by routing the two plugs and trailer brake wires through the hole, passing into the passenger footwell. Secure the gromet into the hole.
  - a. The ring terminal will be fed up between the fuse box and firewall
  - b. The fuse box on the harness is fed through the fender, next to the horns



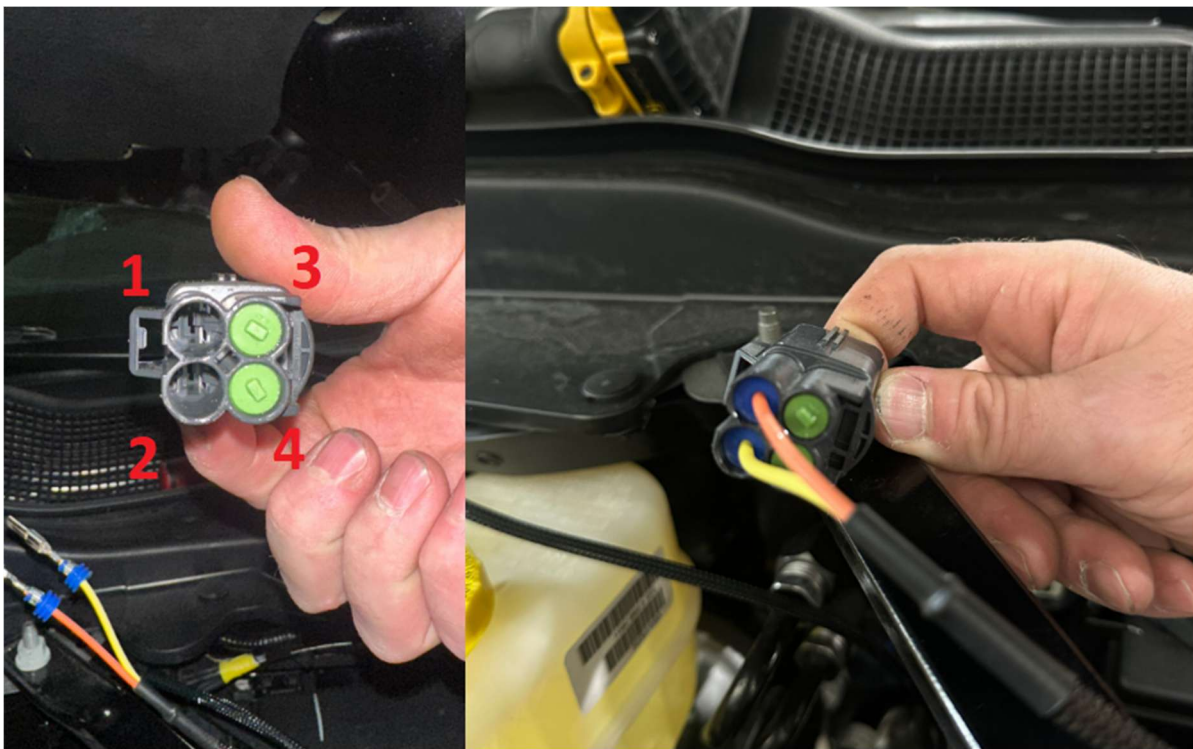
2. Images above showing the routing of the fuse box on the harness. Be sure not to pass around the sharp edge and follow the existing wiring to the horns. The Grey plug will route on the opposite side of the structure of the fuse box.



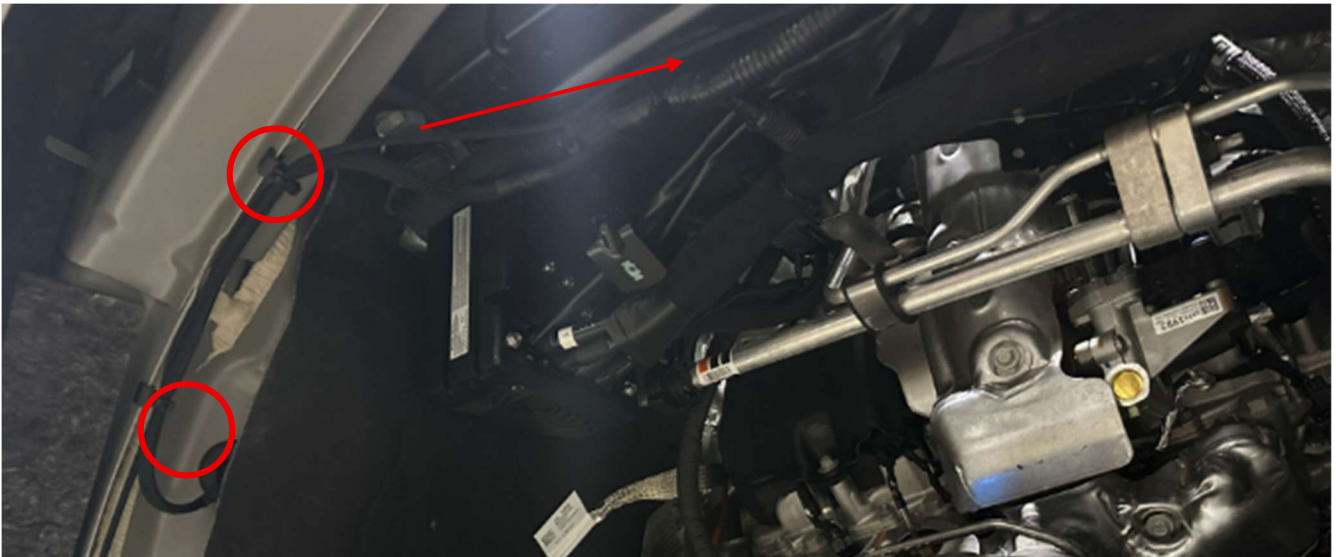
3. Mount the fuse box to the fuse box bracket.
  - a. Remove the fuse box cover and load from the bottom of the bracket
  - b. Secure with the provided M6 bolts
  - c. Do not secure the bracket to the truck at this time
  - d. If you have a winch installed, relocate the controller plug and power button to the bracket provided as pictured



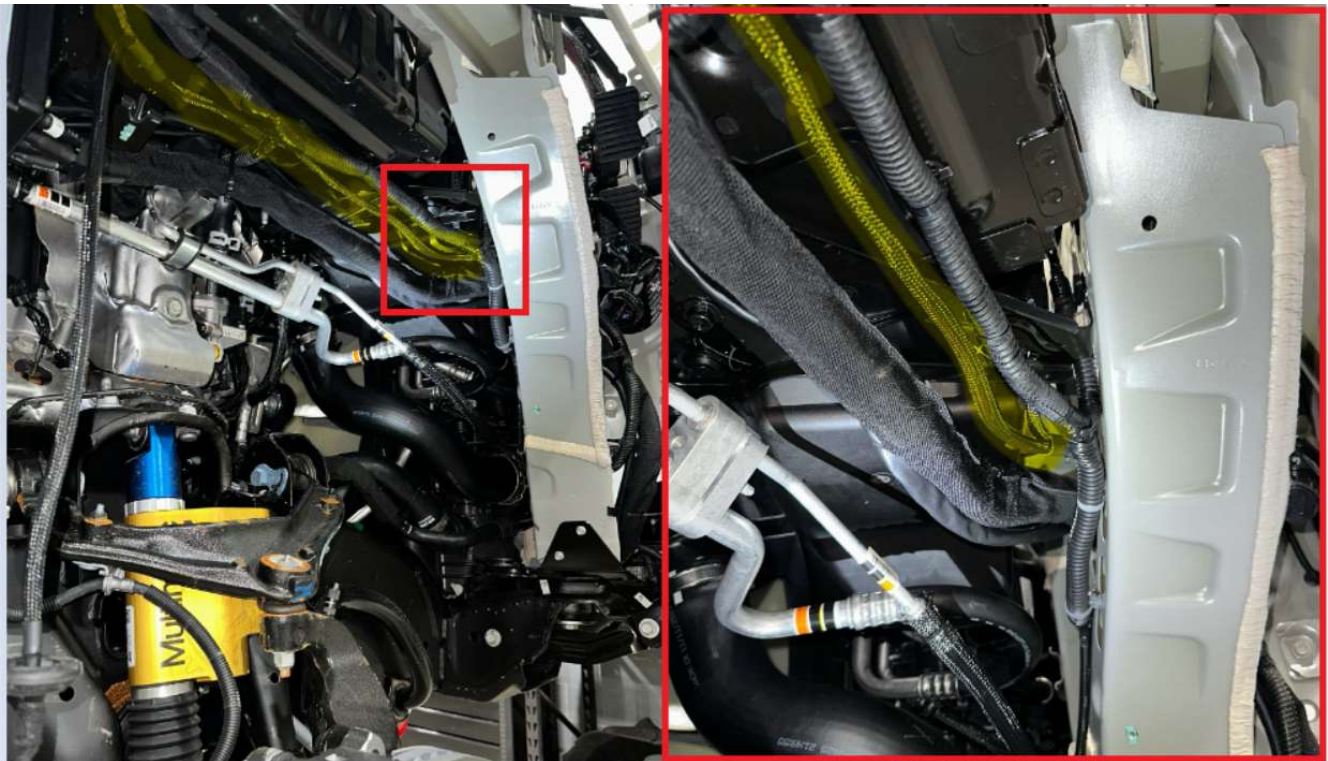
- 4. The Grey plug will be routed under the bracket prior to securing.
  - a. The left image shows this routing and it is held in place with an edge clip zip tie to the bracket and well as the plug secures to the bracket with its attached fir tree.
  - b. The bracket can now be mounted utilizing the ground stud and the provided M8 bolt



- 5. The image above shows which terminal on the plug corresponds to which switch in the vehicle
  - a. If installing any of the AEV lighting harnesses alongside, please reference their installation guides



6. To secure the harness, begin by using two edge clip zip ties to secure on the pinch weld, heading up from the gromet. From here, you will follow the OEM harness across.



7. Following the OEM harness, highlighted in yellow, secure the Aux switch harness to the OEM harness with zip ties. Secure the zip ties every 8-10”.



8. Making your way inside the vehicle, you will see the harness is now in the passenger footwell. Pull back the carpet for better visibility.



9. Looking up into the passenger footwell, the harness will be routed along the harness pictured. AEV aux switch harness is highlighted in yellow for clarity. Secure with 2 zip ties as shown



10. Staying in the passenger footwell, looking towards the driver side of the vehicle, there is a small support bracket. Route the harness behind this bracket.



11. Feed the harness across the vehicle through the open space to the driver footwell. The harness is highlighted yellow for better depiction and is to be routed behind the metal support structure in the driver side footwell.
  - a. The black plug will not reach to the other side of the vehicle. The black plug is what is plugged into the Aux switches and will remain near the center of the vehicle.



12. Going back to the passenger side of the vehicle, secure the harness once more with a zip tie in the location above.



13. In the drivers side footwell, begin securing the harness by using an edge clip zip tie in the position shown above.



14. Staying on the drivers side, secure the harness to the AC vent as shown above.



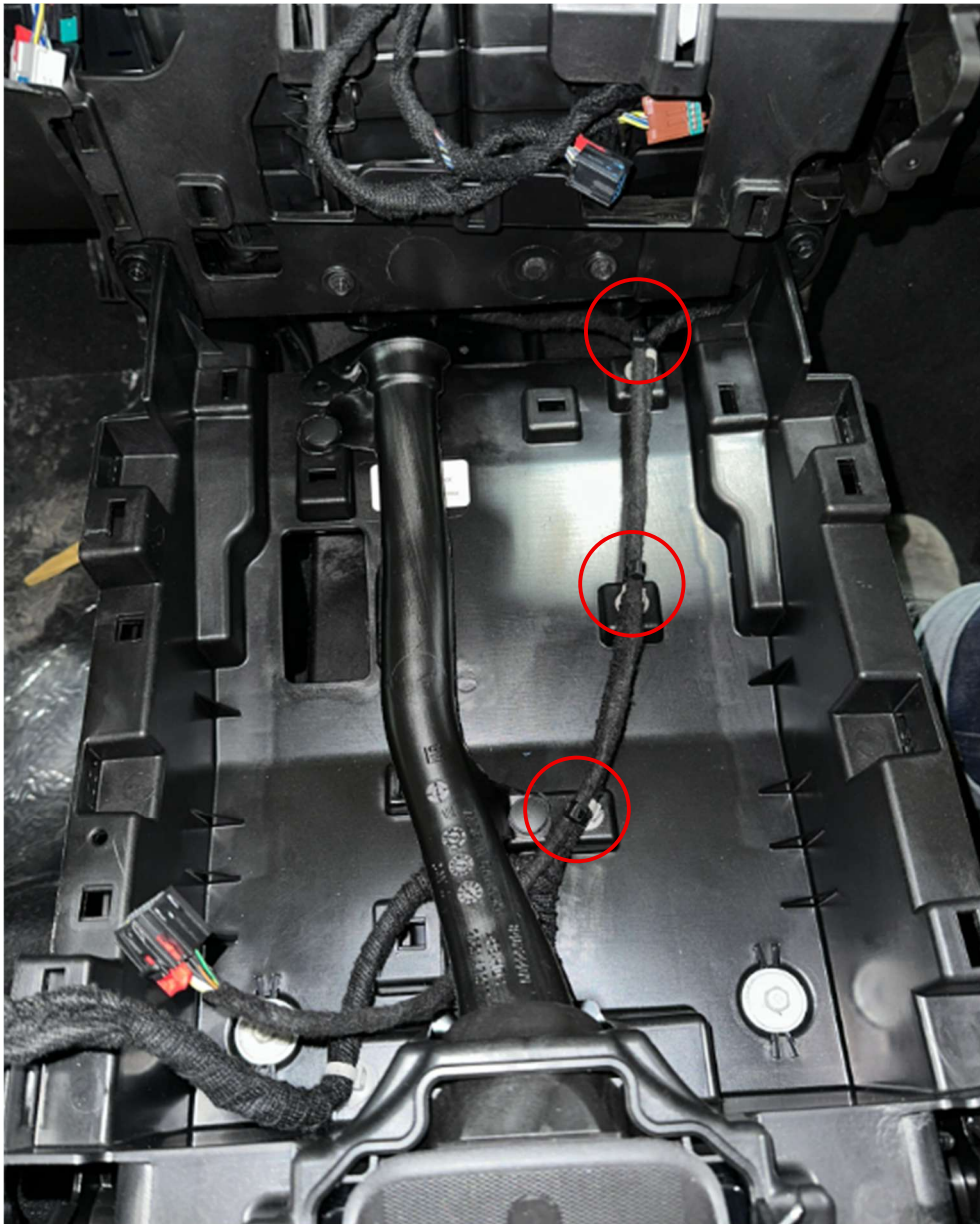
15. Using the fir tree zip-tie, insert it into the open hole on the ac vent as shown.



16. Using another fir tree zip tie, secure the harness to the metal bracket as shown.



17. Looking up into the driver footwell, you are looking for the open grey plug on the right image. This plug is found behind the steel structure, above the control module with all the plugs feeding into it.
  - a. This is where the grey plug found on the AEV aux harness will plug into

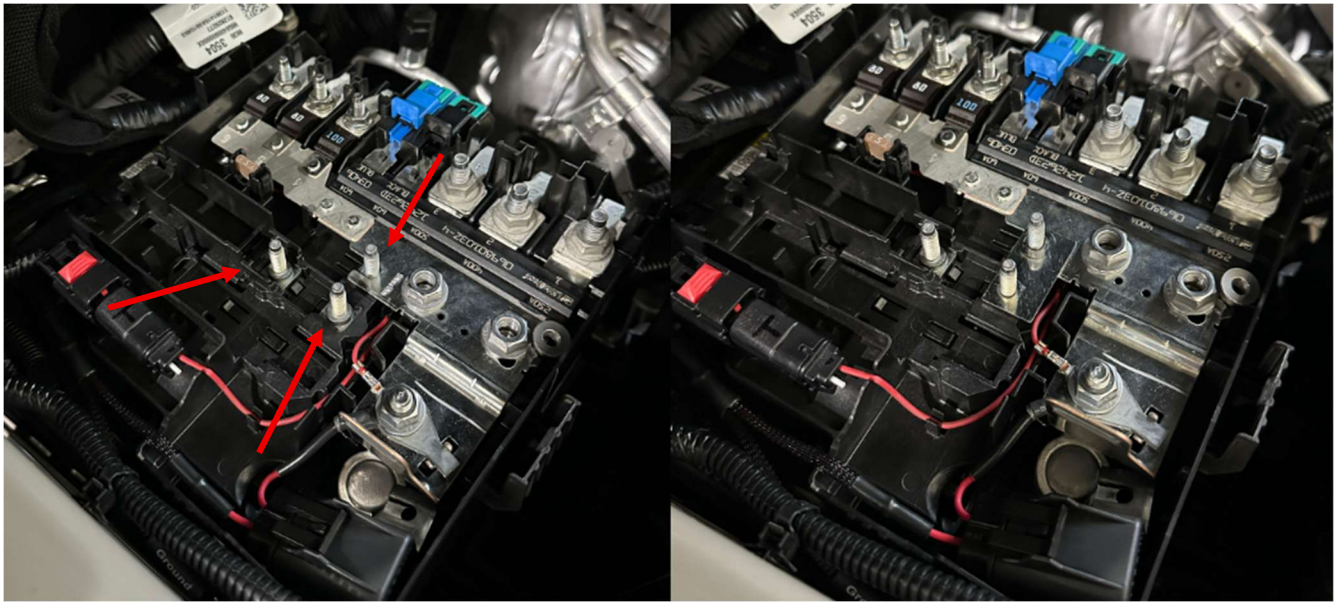


18. Going back to the center console, find the wire with the black plug and trailer brake wires. On GMC this will follow the harness that is coming in from the right. Secure to that harness with 3 zip ties as shown above to ensure that it is not pinched while reinstalling the center console.
  - a. On Chevy trucks, the wire will simply pass through below the AC controls

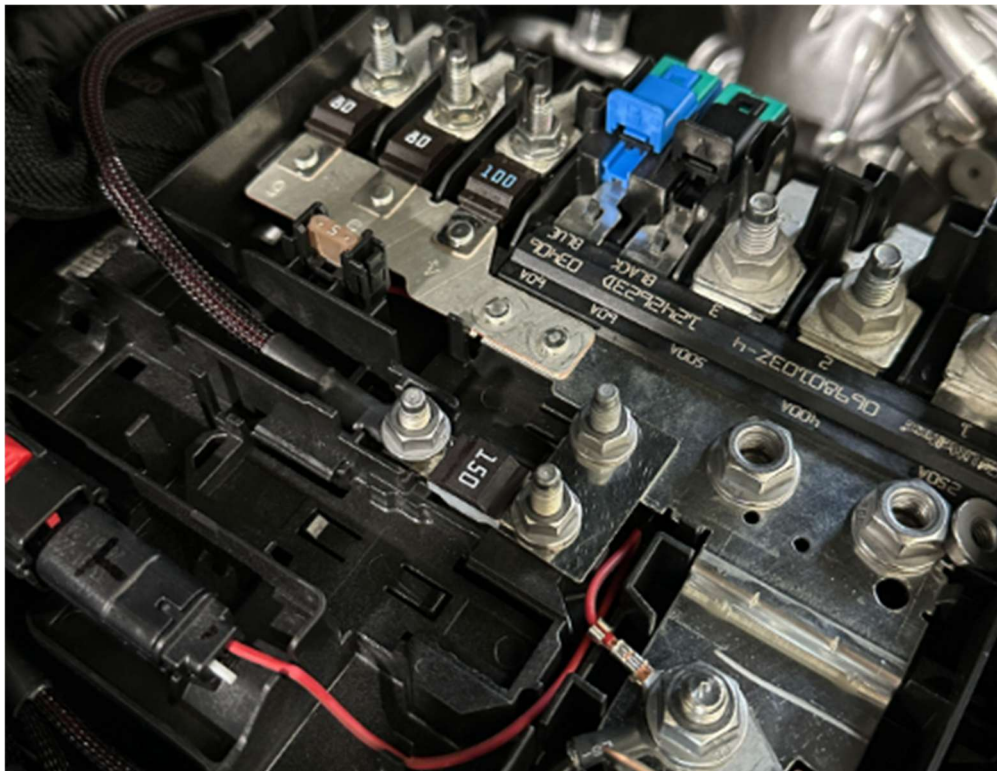
The black plug is what is plugged into the aux switches. At this stage, AEV recommends partially put your interior back together, following the reverse of the original steps. This is so that functionality can be tested prior to securing everything. Secure all the wiring connections but do not go further.



19. In the engine bay, remove the fuse box cover



20. Install the three provided studs that are provided with the kit. These each get one of the included spacers put over the threads and is slid into the slots pictured above. The two studs on the right get the bus bar ensuring orientation matches that of the right image.
- a. If installing and you already have a winch installed, remove the bus bar that was provided with that kit. Install the middle stud with the spacer and reinstall the winch kit bus bar.



21. The open stud is connected to the circuit with the 150-amp fuse. Finally, the ring terminal on the AEV harness that was fed up between the firewall and fuse box, can be laid through the open channel and put on top of the fuse terminal. Secure all three with the supplied nuts.



**NOTE: PRIOR TO INSTALLING ALL OF THE PLASTICS BACK INTO THE INTERIOR, TEST THE FUNCTIONALITY OF THE HARNESS. ONCE EVERYTHING HAS BEEN TESTED AND PROVEN TO FUNCTION, YOU MAY NOW INSTALL THE INTERIOR PLASTICS, WHEEL WELL LINERS, AND SPARE TIRE IF REMOVED.**