



7000 series Lighting Harness

2019+ AEV Ram HD Front Bumper

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.



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
7000 Series Lighting Harness	1	Common Hand Tools

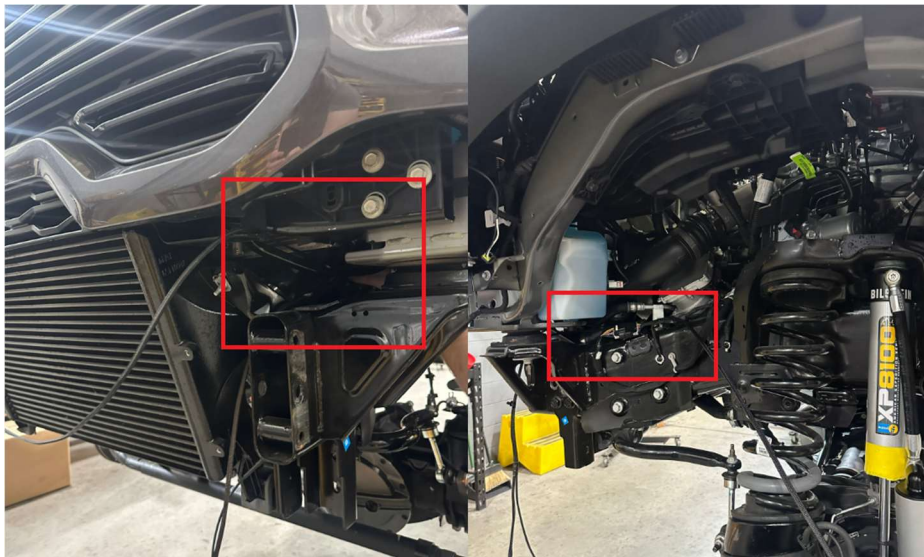


I. VEHICLE PREPARATION

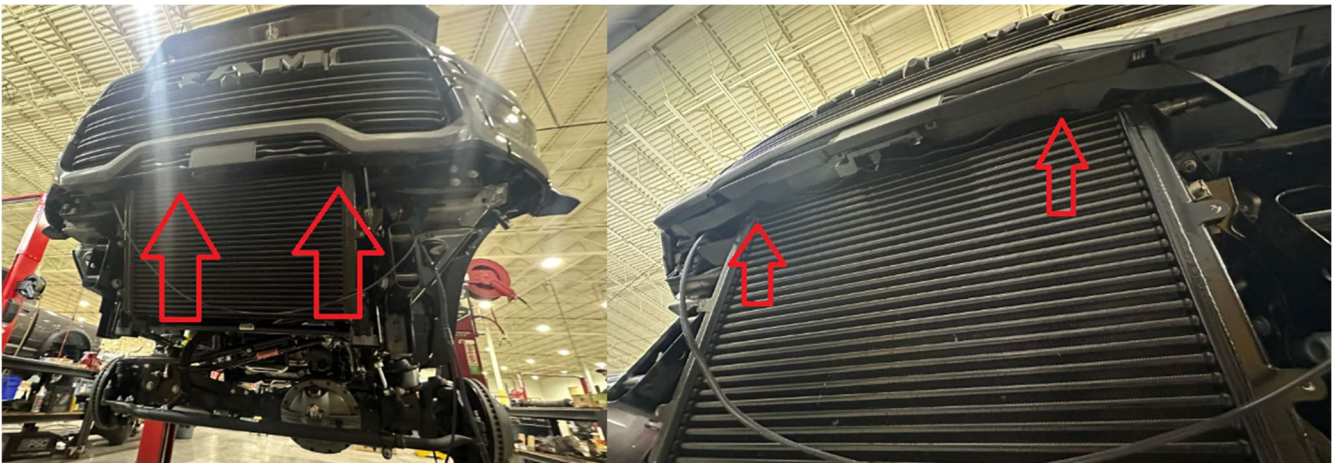
1. Begin by removing the driver's side fender liner
2. Although not required, AEV recommends having the bumper off for ease of installation
 - a. If you already have an AEV bumper and radiator skid plate installed, it is recommended to remove the radiator skid if not removing the bumper

II. Installation

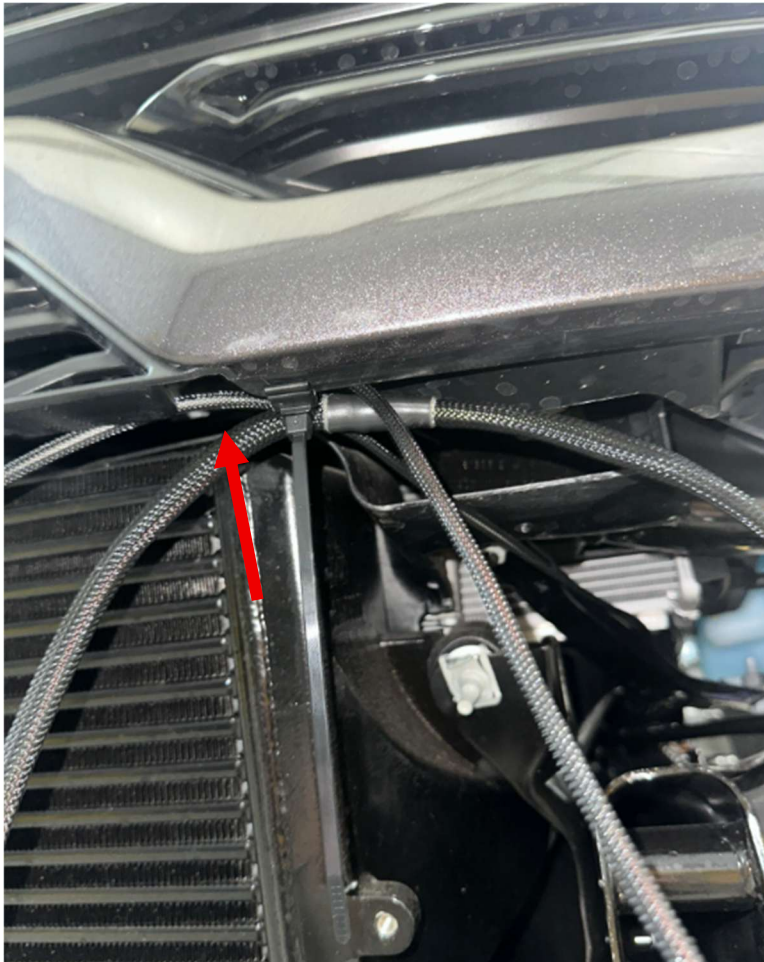
1. Begin by routing the harness over driver side frame rail, inside of the body mount
 - a. Feed the end with the two terminals and ground ring
 - b. Keep pulling through up to the pre-installed Christmas tree zip tie



2. The harness will now be routed along the bottom edge of the grille. This will be done with the provided edge clip zip ties.

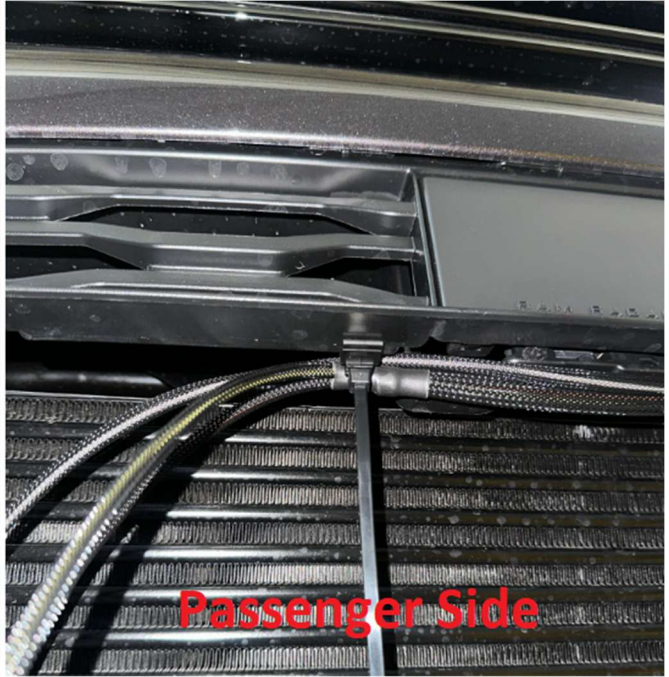
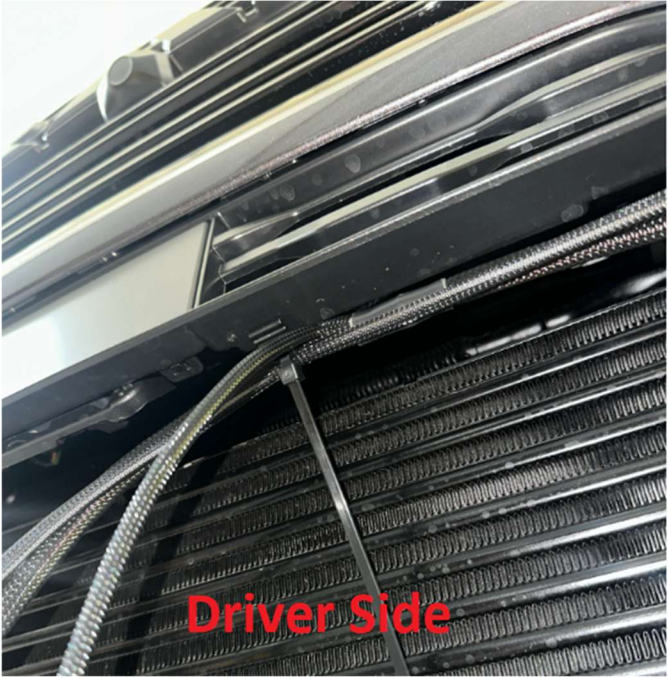


3. Working from the driver side first, loosely install the first edge clip zip tie where the first pigtail comes off the harness for the lights
 - a. The edge clip will be secured along the bottom edge of the grille
 - b. On the bottom of the grille, you will find a notched area. This is highlighted in the image
 - i. If installing lights onto a brush guard, place the edge clip outboard of the notch as shown
 - ii. If installing lights onto a low tube, place the edge clip inboard of the notch
 - c. Get the zip tie close to the split point and secure

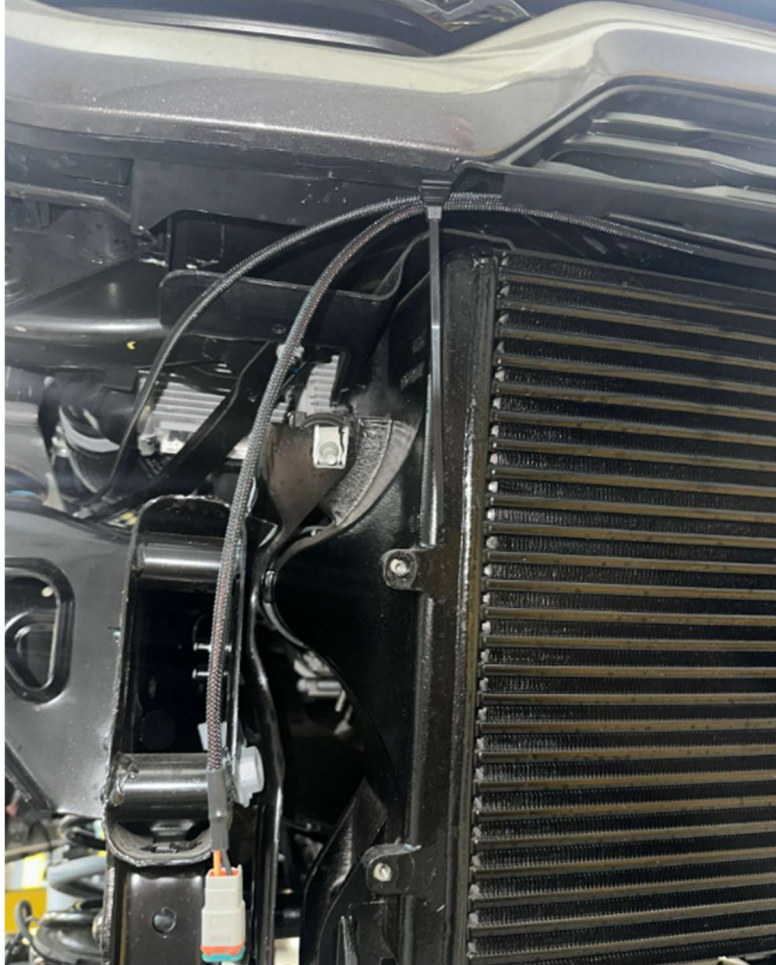




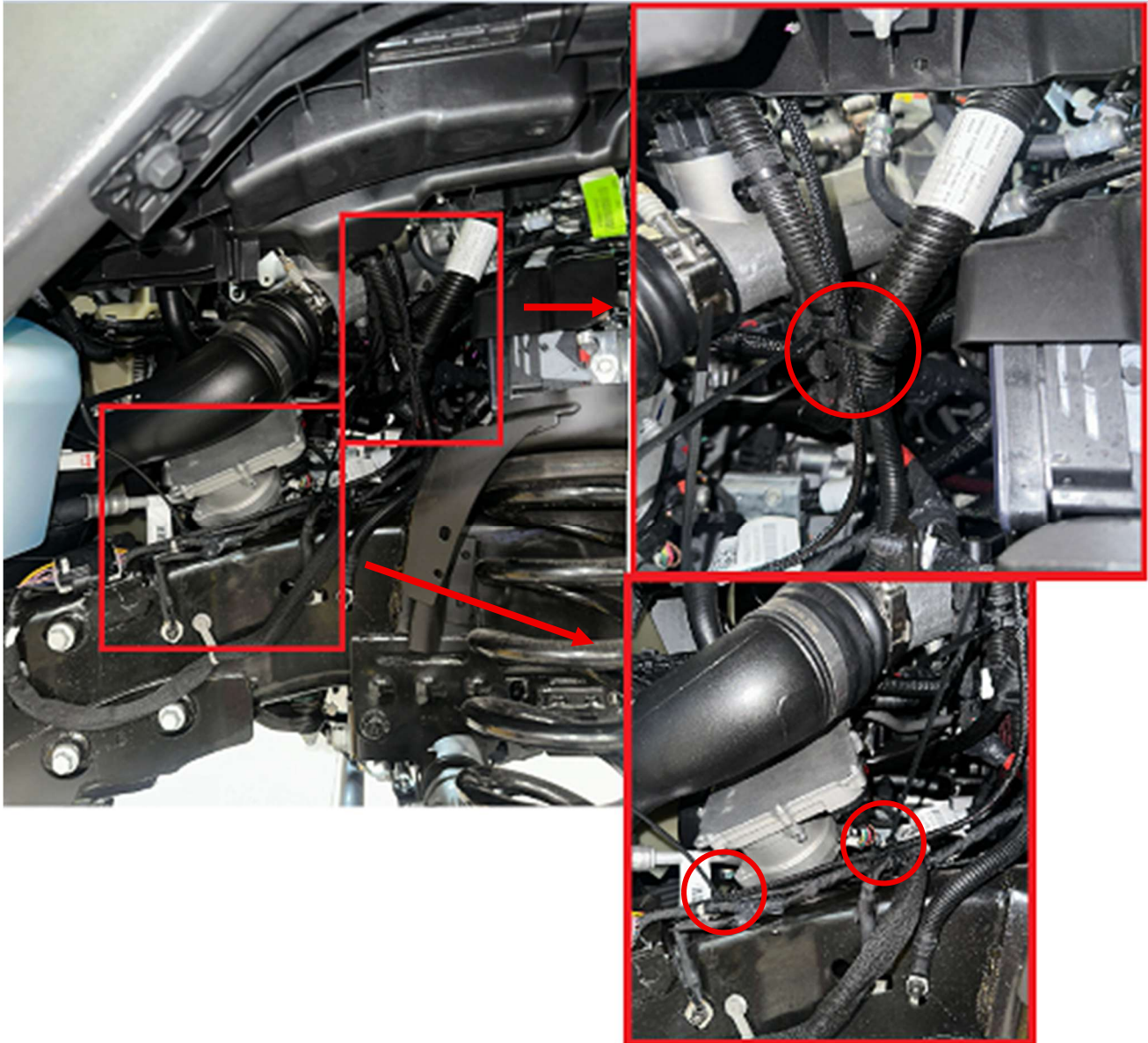
4. If installing on a truck with radar, the inner two pigtails will be secured just outside of the radar as shown below.
 - a. On trucks without radar, you will feel the backside structure of the grille for where you are able to secure the edge clip. This will be just inboard of a bolt head
 - b. On the driver side, the edge clip zip tie is secured just after the pigtail
 - c. On the passenger side, the edge clip zip tie is secured just before the pigtail
 - i. Both pigtails should be the ones with caps installed
 - ii. If installing four lights, these are to be removed



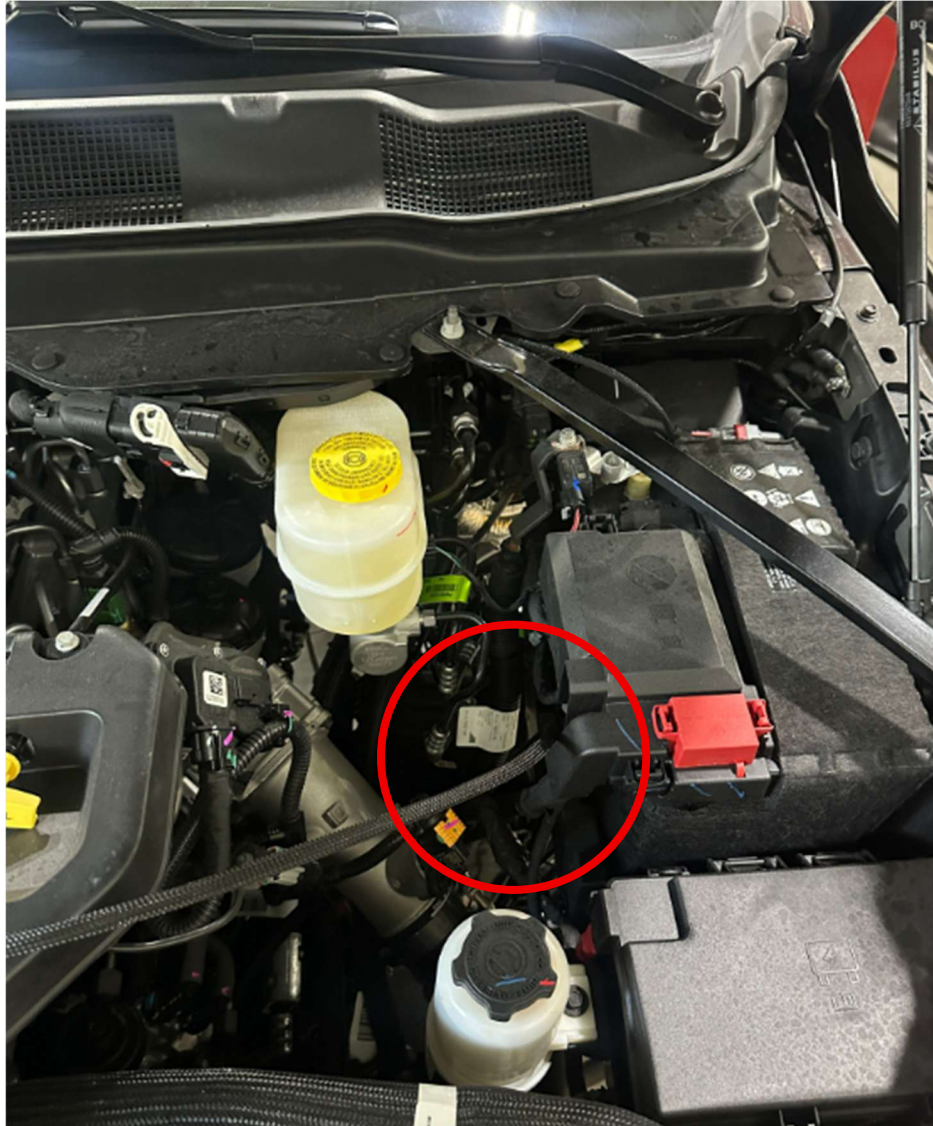
5. Like the of the driver side, the passenger side edge clip will be attached to the grille outside of the notch if installed with a brush guard
 - a. If installing with a low tube, secure the edge clip inboard of the notch
 - b. This is the end of the harness and does not have a pig tail, secure the zip tie around the harness so that the length matches the other three



6. The harness can now be routed into the engine bay
 - a. Begin by routing alongside the OEM harness that heads up into the engine bay
 - b. Secure with three zip ties in the locations shown



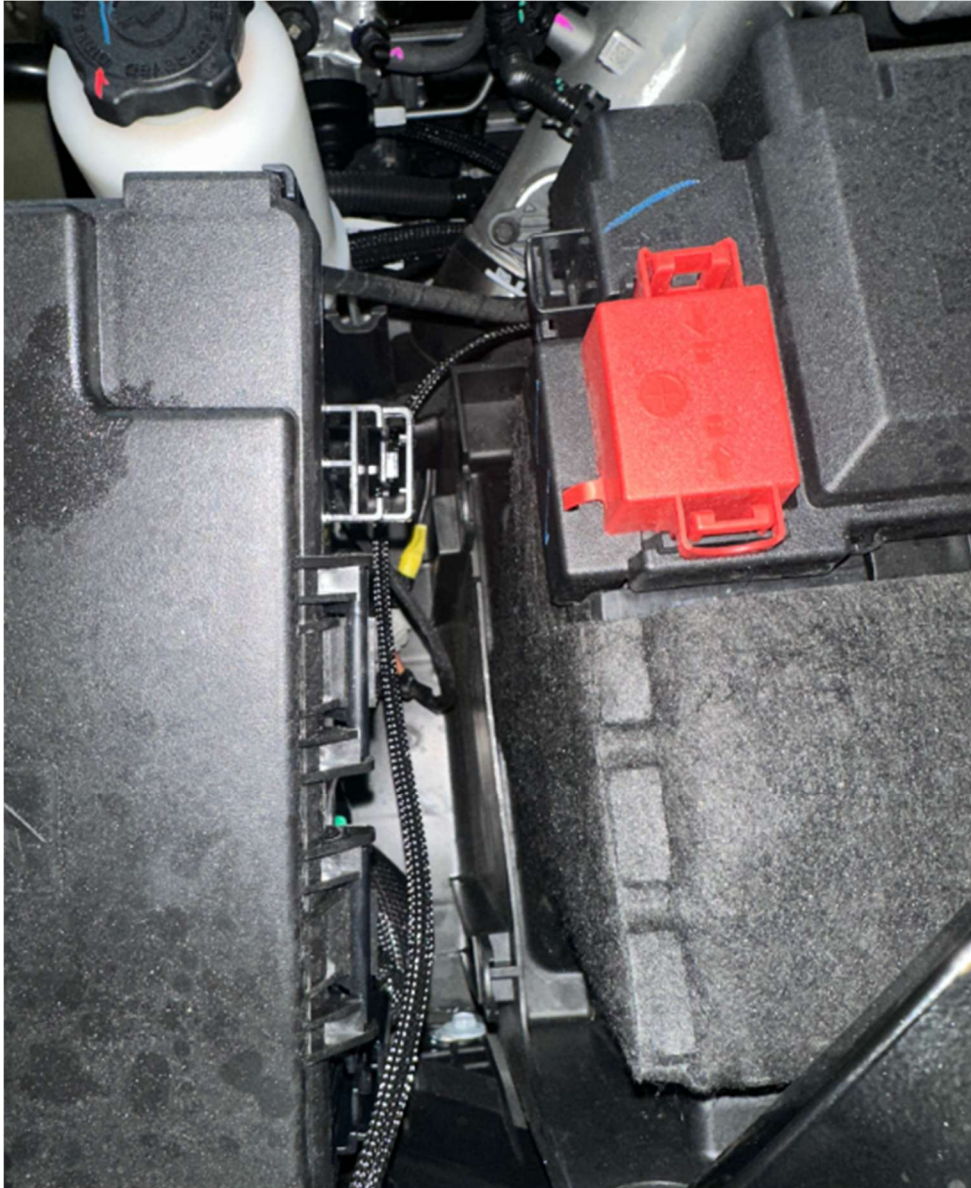
7. Pull the end of the harness up into the engine bag near the battery



8. Move the fuse box out of the way so that the harness can be routed underneath it
 - a. This is done by releasing the four tabs below
 - b. This does not fully remove it and just allows it to be moved out of the way for harness routing



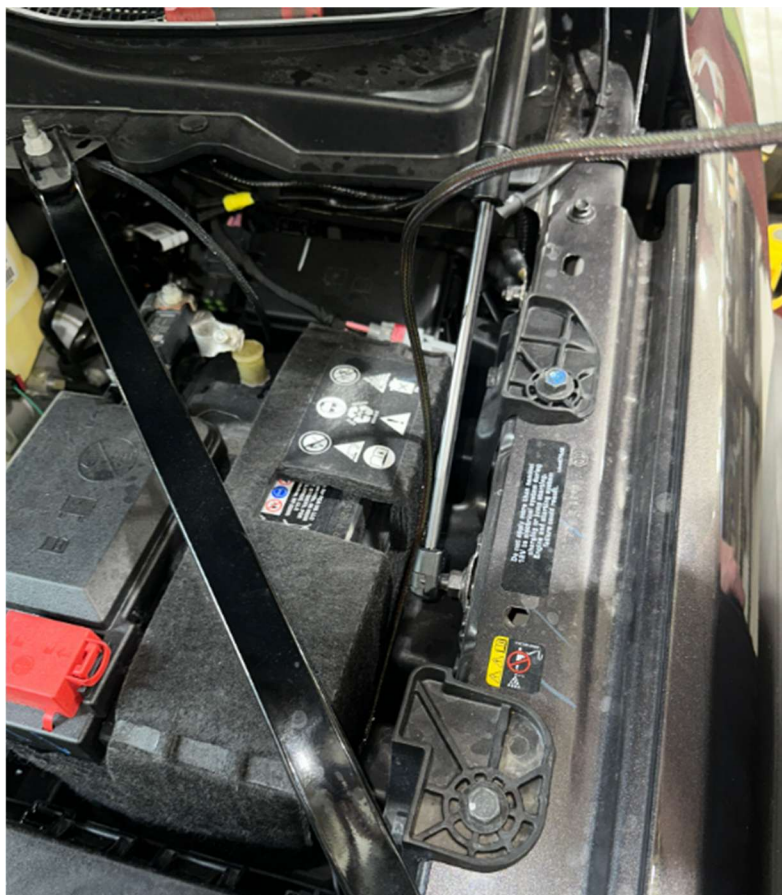
9. With the fuse box moved out of the way, route the harness inboard of the two clip towers alongside the battery
 - a. With the harness pulled through, the fuse box can now be re-installed



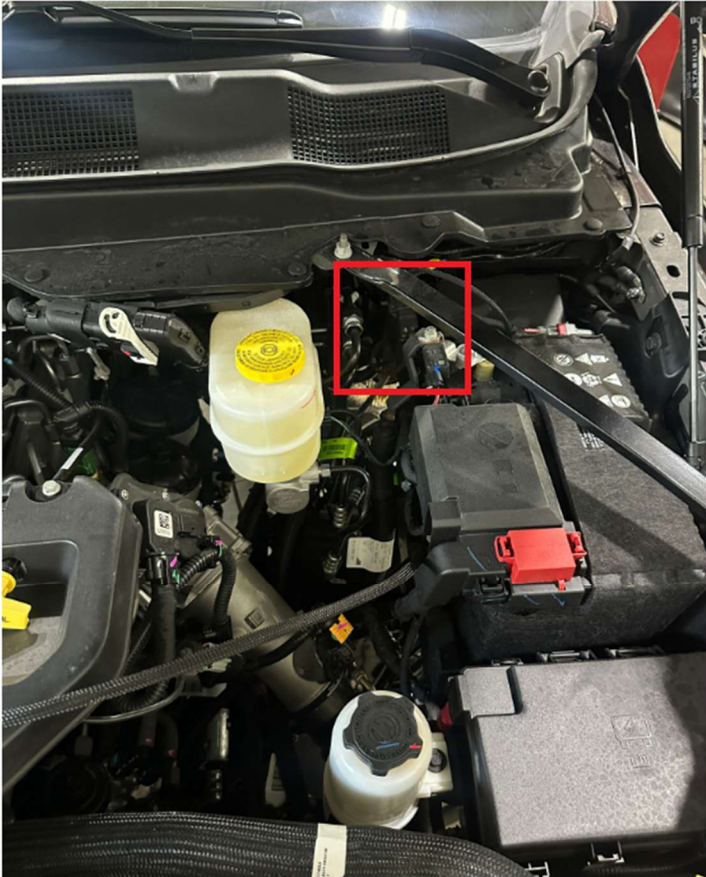
10. Install the ground wire to the rear grounding stud found alongside the fuse box



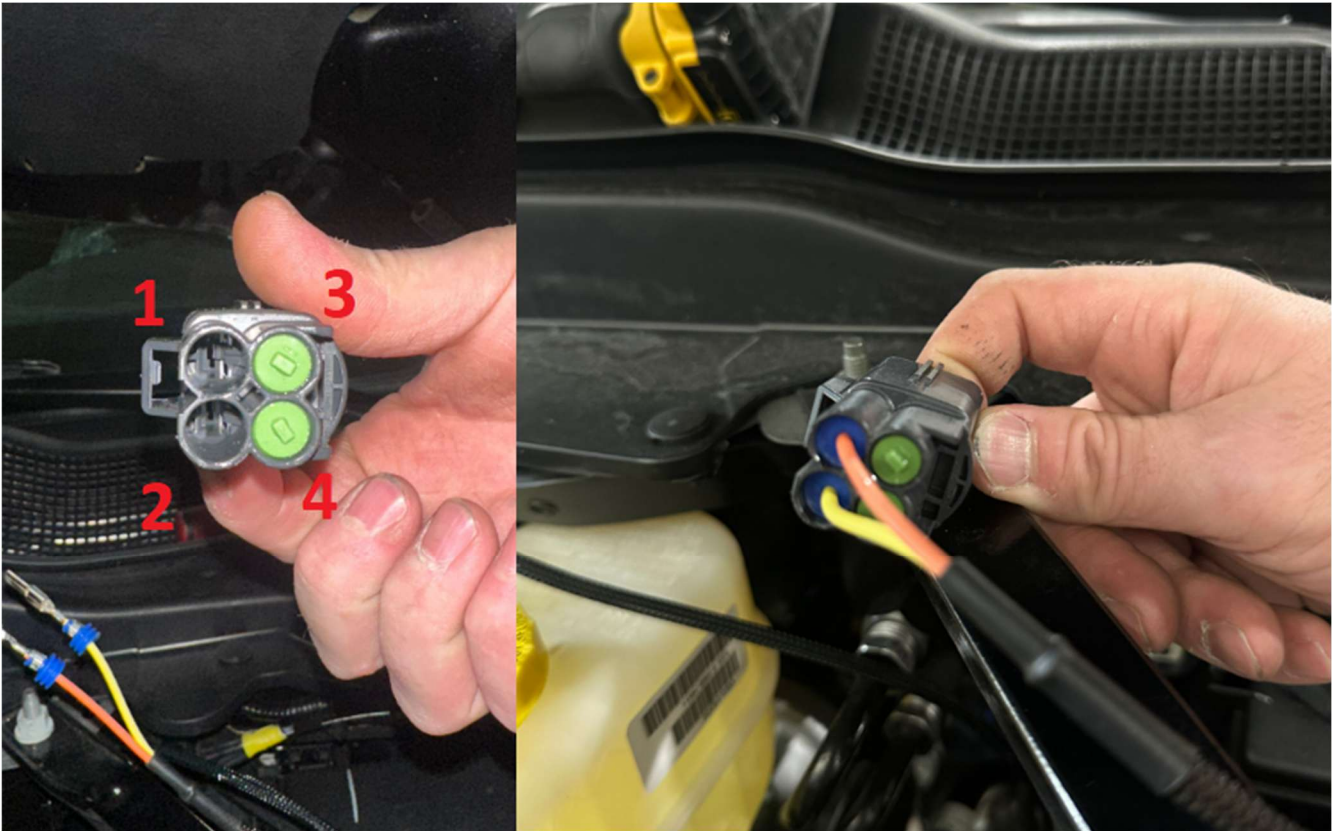
11. Continue routing the harness by tucking it alongside the fender and battery
a. Be sure to keep the harness clear of the hood strut



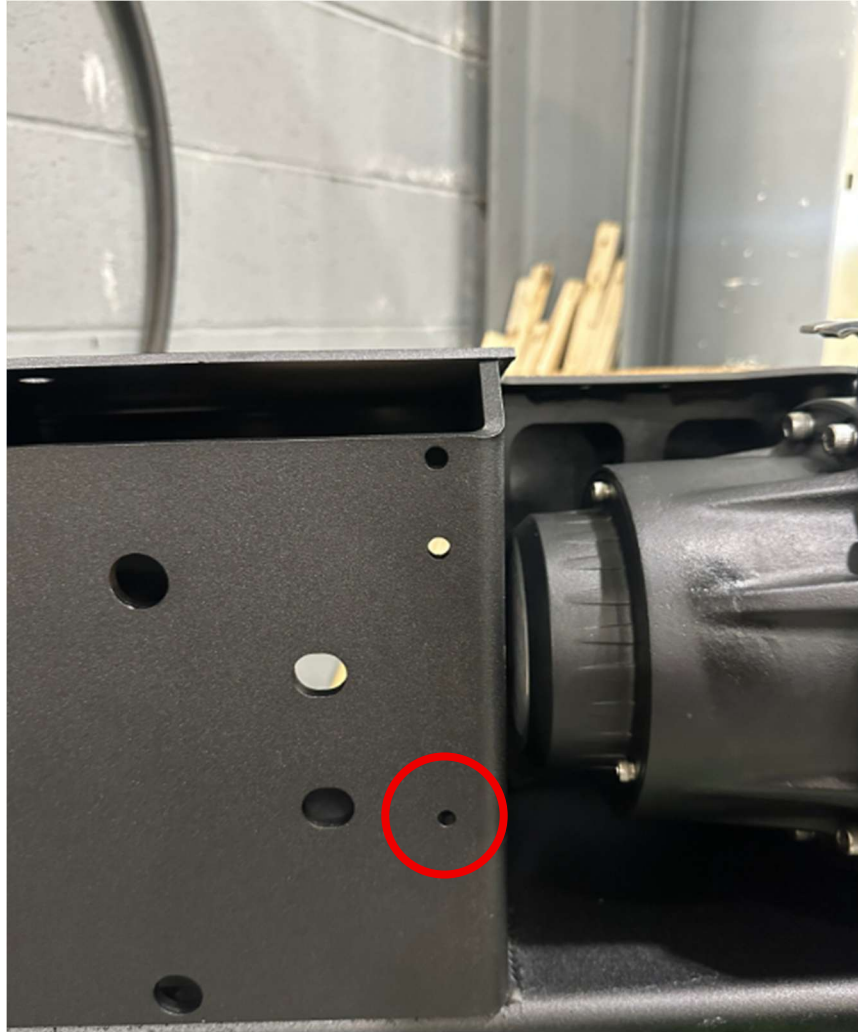
12. To connect the newly installed harness to the factory or AEV aux switches, locate the grey connector with four green plugs
 - a. Unclip the connector with four green plugs from the harness



13. Reference the image below for what open receptacle pertains to which aux switch
- a. AEV utilizes switches 1 and 2 for front aux lights
 - b. The orange wire controls the outer lights
 - c. The yellow wire controls the inner
 - d. Remove the rubber caps and press the terminals into the open spaces
 - e. Once installed, the harness can now be plugged in



14. With the AEV bumper installed, there is a hole on the back side of the bumper on the driver side where the pre-installed Christmas tree zip tie can be secured to



III. Installation With AEV Light Mounts

NOTE: If installing with AEV 7000 series lights and a brush guard, drill out the open hole in the rear of the light mount with a $\frac{3}{8}$ " drill bit. This allows the harness to be neatly routed to the light. (Image on final page)

If installed on a low tube, only do this to the two center light brackets as the outer two utilize the hole for mounting.

AEV recommends testing the lights before putting the truck 100% back together incase any trouble shooting is required.

