



# 37 Inch Tire Clearance Kit

2024+ Chevrolet Silverado 2500 ZR2 Bison  
and 2024+ GMC Sierra 2500 AT4X AEV Edition

## NEW PRODUCT

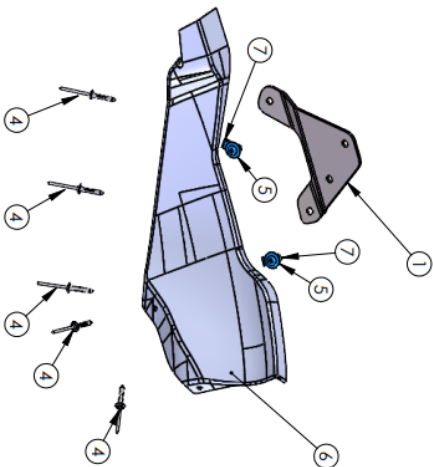
Please visit [www.aev-conversions.com](http://www.aev-conversions.com) to view the most current installation guide for this product.

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.

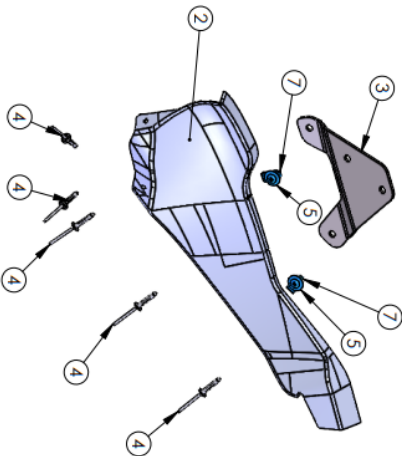
### PLEASE READ BEFORE YOU START

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.

# Front Closeout Kit (Chevy and GMC)

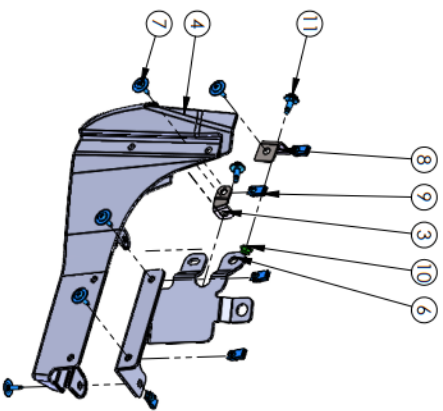


| ITEM NO. | PartNo     | DESCRIPTION                                              | QTY. |
|----------|------------|----------------------------------------------------------|------|
| 1        | ATHK1003AA | WHEEL LINER BRKT LH, T1 HD 37" TIRE KIT                  | 1    |
| 2        | ATHK1000AA | CLOSEOUT PATCH PNL RH, T1 HD 37" TIRE KIT                | 1    |
| 3        | ATHK1002AA | WHEEL LINER BRKT RH, T1 HD 37" TIRE KIT                  | 1    |
| 4        | AEV99325AA | Rivet, 3/16" x 0.236"-0.394" - P - Black                 | 10   |
| 5        | 11548270   | M4.2 X 1.41 X 20 SHOULDER SCREW AND WASHER (WHEEL LINER) | 4    |
| 6        | ATHK1001AA | CLOSEOUT PATCH PNL LH, T1 HD 37" TIRE KIT                | 1    |
| 7        | 11548580   | M4.2 X 1.41 U-NUT (PANEL THICKNESS 0.65-3.80)            | 4    |

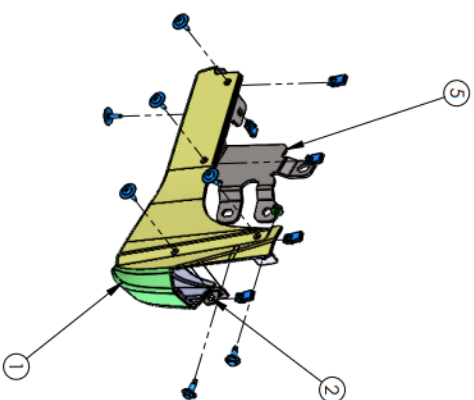




## Front Rear Closeout Kit (GMC)



| ITEM NO. | PART NUMBER             | PartNo     | DESCRIPTION                                              | QTY. |
|----------|-------------------------|------------|----------------------------------------------------------|------|
| 1        | D102903                 | ATHK3001AA | PLASTIC, GMC WOM EXTENSION LH, T1 HD 37" TIRE KIT        | 1    |
| 2        | D103054                 | ATHK3003AA | WOM EXTENSION FENDER BRACKET LH, T1 HD 37" KIT           | 1    |
| 3        | D103056                 | ATHK3004AA | WOM EXTENSION FENDER BRACKET RH, T1 HD 37" KIT           | 1    |
| 4        | D103057                 | ATHK3002AA | PLASTIC, GMC WOM EXTENSION RH, T1 HD 37" TIRE KIT        | 1    |
| 5        | D092310                 | ATHK1011AA | WHEEL LINER BRKT RR LH, T1 HD GMC 37" TIRE KIT           | 1    |
| 6        | D103055                 | ATHK1010AA | WHEEL LINER BRKT RR RH, T1 HD GMC 37" TIRE KIT           | 1    |
| 7        | 11548270-002-BOLT-SCREW | 11548270   | M4,2 X 1,41 X 20 SHOULDER SCREW AND WASHER (WHEEL LINER) | 10   |
| 8        | D024669                 | ABNF2030AA | BRACKET, AEV ZR2 HIGHMARK FLARE, FRONT CLOSE OUT         | 2    |
| 9        | D036871                 | 11548580   | M4,2 X 1,41 U-NUT                                        | 10   |
| 10       | D014725                 | 11546389   | M6 X 1,0 NUT - HEX FLANGE                                | 4    |
| 11       | D017288                 | 11516567   | M6 SCREW ASSEMBLY                                        | 4    |





## AMERICAN EXPEDITION VEHICLES

| INCLUDED PARTS                               | QTY | REQUIRED TOOLS                            |
|----------------------------------------------|-----|-------------------------------------------|
| Front Wheel Liner Bracket                    | 2   | General Hand Tools (Metric)               |
| Front Closeout                               | 2   | Jack or hoist                             |
| Front Rear Wheel Liner Bracket<br>(GMC ONLY) | 2   | Jack Stands                               |
| Front Rear Flare Extensions (GMC<br>ONLY)    | 2   | Torque Wrench                             |
| Flare Extension Brackets (GMC<br>ONLY)       | 4   | Wax Removal (Optional)                    |
| Hardware Pack                                | 1   | Paint Primer (Optional)                   |
|                                              |     | Rust prevention treatment                 |
|                                              |     | Cutoff tool (die grinder, body saw, etc.) |



## I. VEHICLE PREPARATION

1. Use a 2-post hoist or jack and jack stands to raise and secure vehicle by the frame until the tires are off the ground.
2. Remove the front wheels and tires from your vehicle.
3. Remove your radiator skid plate. Save bolts for reinstallation.
4. Remove the plastic bumper closeout panels and wheel liners. Save bolts for reinstallation.
5. (GMC only) Remove the flare extension. (Figure 1)



Figure 1

6. (GMC only) Remove your flare.
  - a. This can be removed using an 8mm socket to pinch the clips from behind the fender. Replacement clips are in the hardware pack if needed.
  - b. Be careful when removing your flare, as there is a light connected at the top. Disconnect the light's wire harness for full removal.
7. Remove the front wheel liner.
8. Remove the front wheel liner bracket. Save these bolts for reinstallation later. (Figure 2)



Figure 2



9. (GMC Only) Remove the bracket at the back of the front wheel wells toward the door opening. Save these bolts for reinstallation. (Figure 3)



Figure 3

10. Remove the pencil brace from your body mount and bumper. Save these bolts for reinstallation later. The picture below shows the pencil brace removed and wax cleaned off the body mount. (Figure 4)



Figure 4



11. Place the AEV body mount trim template onto your body mount. With a marker trace the dashed trim line onto your body mount. This is where you will make your cut. NOTE: It is recommended to clean your body mount free of wax in the area where you will be making your cut. This will make it easier to mark up for cutting purposes. (Figure 5)
  - a. Cut marked location.
  - b. Grind to prevent sharp edges.
  - c. Treat with rust prevention.
  - d. Repaint this area.



Figure 5

12. (GMC only) Using the fender trim template, line up the pre-drilled holes and part edge for trimming purposes. (Figure 6)
  - a. Cut and drill a 3/8<sup>th</sup> hole in your fender per trim template.
  - b. Grind or deburr to prevent sharp edges.
  - c. Treat with rust prevention.

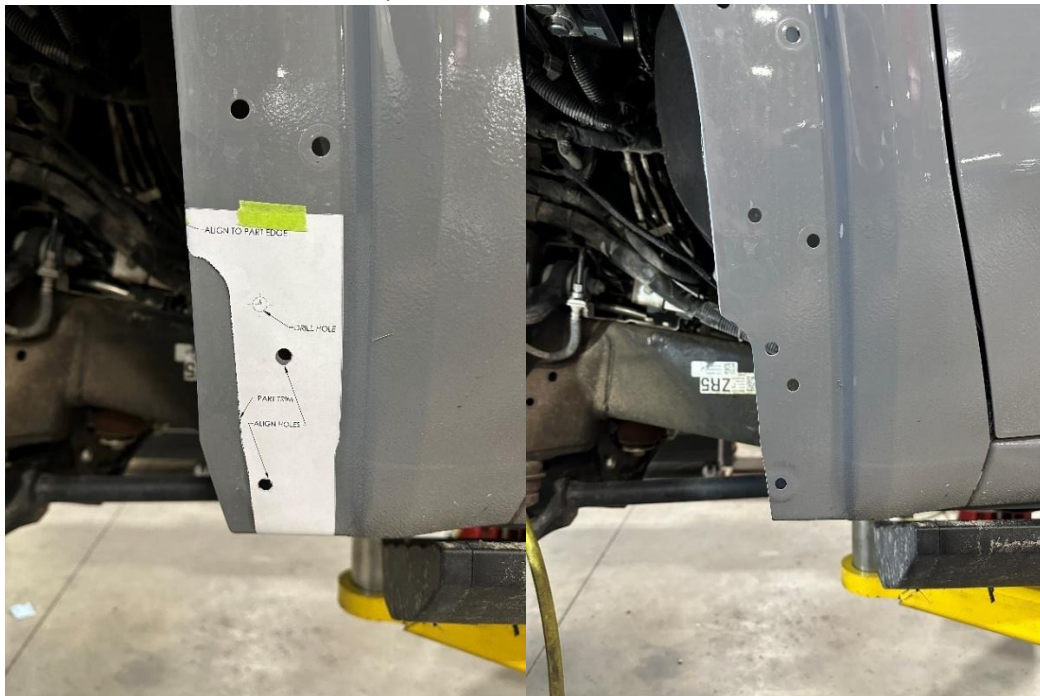


Figure 6



13. (GMC only) Using the “fender B” trim template, cut off the bottom corner of the fender. (Figure 7)
- Grind or deburr to prevent sharp edges.
  - Treat with rust prevention.



Figure 7

14. Using the AEV wheel liner trim template, punch/drill out two 3/8<sup>th</sup> holes in your wheel liner for the AEV wheel liner bracket. (Figure 8)

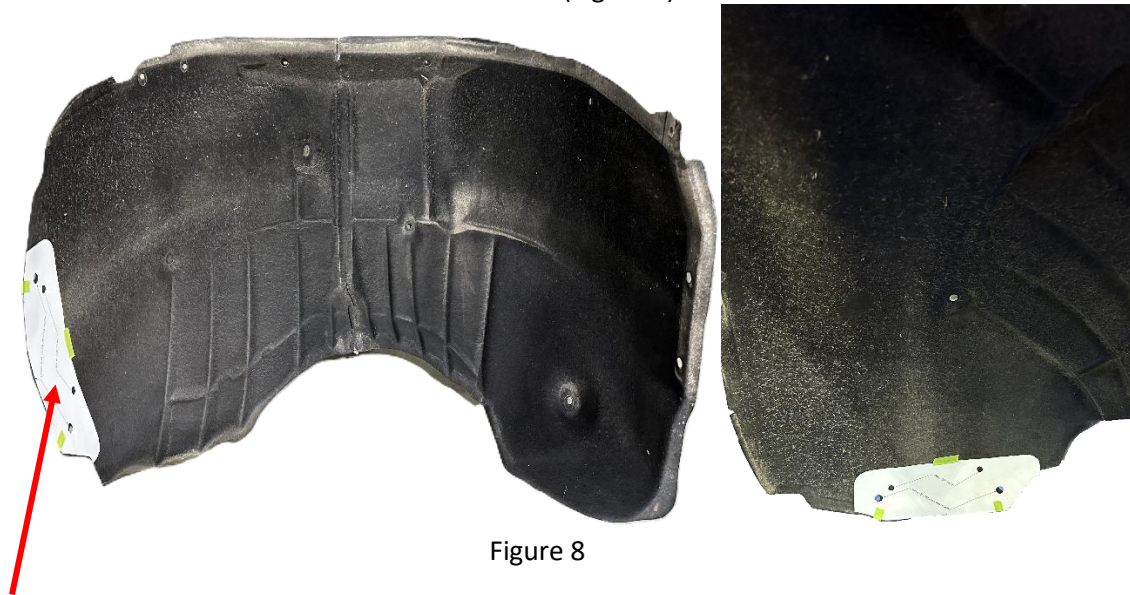


Figure 8

Front of vehicle

15. Cut the back of the wheel liner to allow for better tire clearance when turning. Using the green dot as a starting point, measure the respective distances below as a guideline. Cut

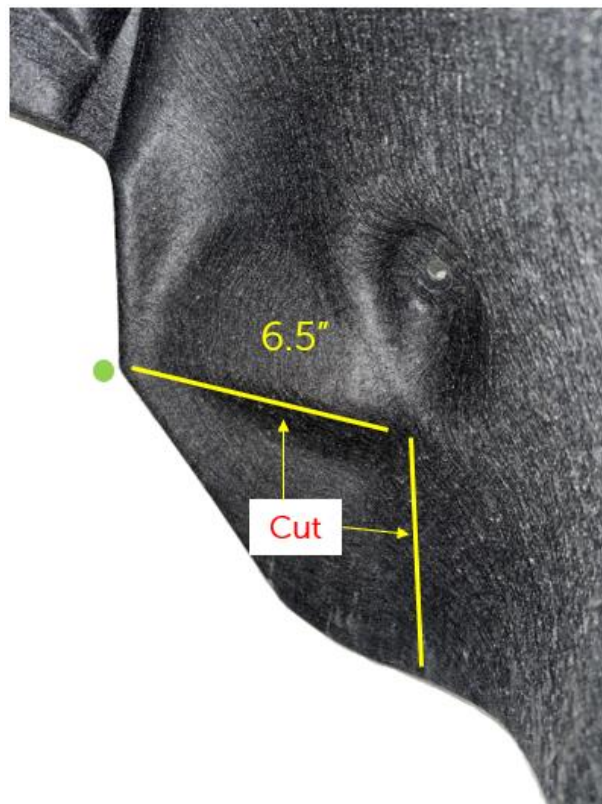


along the yellow line 6.5" rearward in vehicle and then straight down. This does not need to be an exact cut. (Figure 9)

- a. Wheel liners may differ from what is pictured due to vehicle build differences.
- b. The GMC/Chevy wheel liner trim template may differ from your wheel liner design but can be used as further guidance.



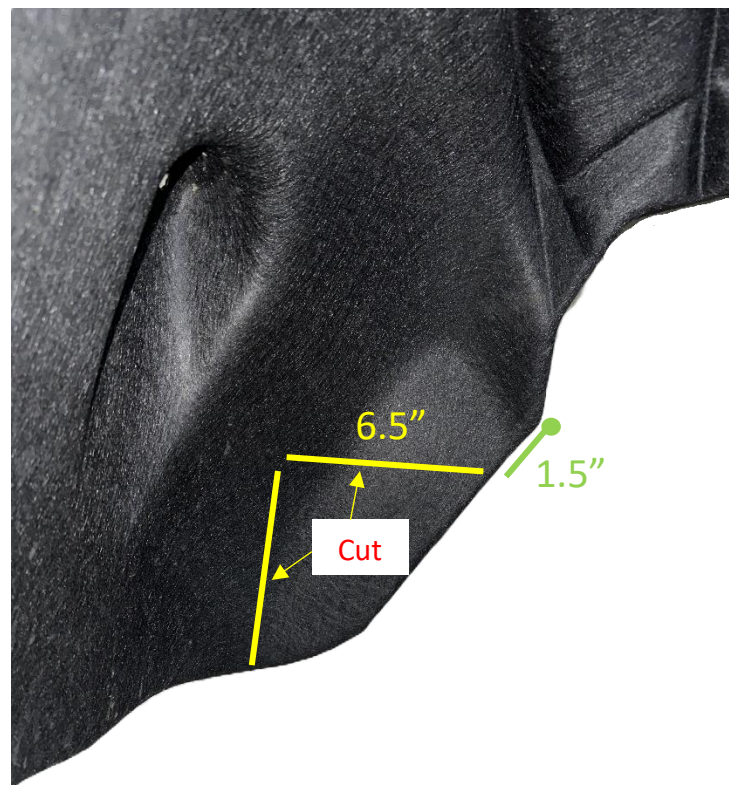
Wheel Liner Variation 1 (Figure 9)



Highlighted Section of Wheel Liner Variation 1 (Figure 9)



Wheel Liner Variation 2 (Figure 9)



Highlighted Section of Wheel Liner Variation 2 (Figure 9)



16. Using AEV closeout trim template, cut your OEM plastic bumper closeouts. (Figure 10.2)
  - a. CAUTION: Do not cut off the most inboard flange. This is needed to properly attach you AEV closeout piece. (Figure 10.1)
  - b. NOTE: This can be cut using shears or an air saw.

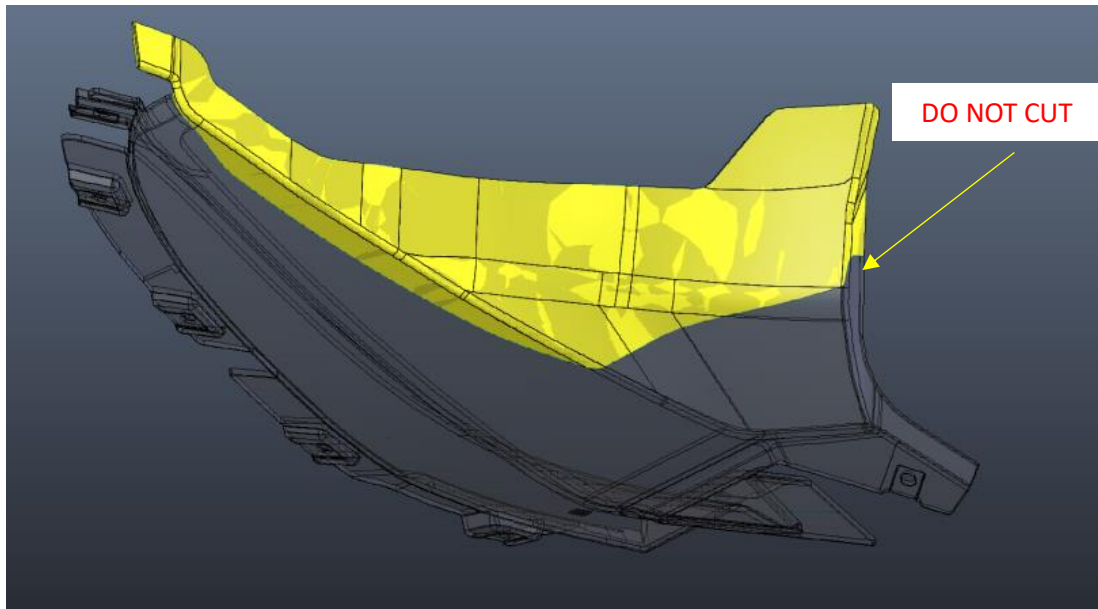


Figure 10.1

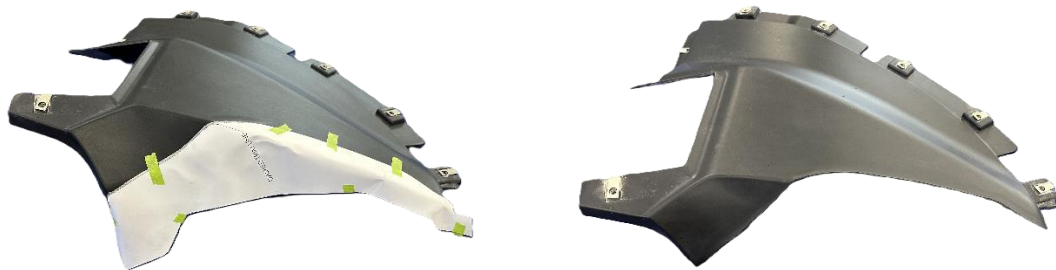


Figure 10.2

17. Repeat these steps on the RH side.

## II. INSTALLATION



1. Please refer to the torque spec table at the end of this installation sheet when installing hardware.
2. When installing your new AEV closeout to the OEM bumper closeout, work one by one drilling and riveting as you go from the inboard side out. It can be helpful to have an extra set of hands to hold the AEV closeout and OEM closeout together as you work. (Figure 11)
  - a. Cut off any access material from your provided rivets once attached.



Figure 11

3. Install your AEV front wheel liner bracket using the OEM bolts. Use the provided u-nuts for the bottom 2 holes. These will be used for the wheel liner.
  - a. NOTE: Make sure the bend in the bracket is bending towards the front of the vehicle and the bend where the holes are is parallel to the ground. It can be easy to mix up these brackets. The flat face of the u-nuts should be toward the rear of the vehicle (into the wheel well) (Figure 12)



Figure 12

4. (GMC only) Install AEV wheel liner bracket at the back of the front wheel wells toward the door opening using the OEM bolts. Install provided u-nuts to the same bracket with the flat



face of the u-nut pointing forward in vehicle (into the wheel well) and facing downward in the bottom location. (Figure 13)



Figure 13

5. Install pencil brace in front of the bumper bracket so welded OEM nuts act as spacers. Run your OEM bolts forward in vehicle. Then add the provided nuts to the front side. The inboard bolt does not need a nut added; it uses the OEM weld nut. (Figure 14)

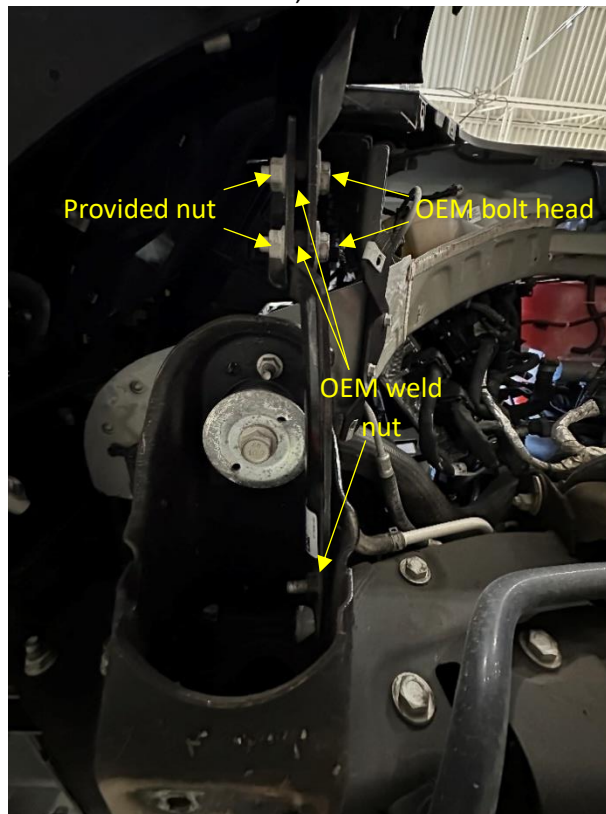


Figure 14

6. (GMC only) Install both the L-Bracket into the previously drilled 3/8<sup>th</sup> hole and the AEV flare extension fender bracket. (Figure 15.1)



- a. NOTE: When installing the AEV L-Bracket, install the provided M6 bolt from inboard the vehicle pointing outboard. It is best to install this in the most forward position possible but can vary from vehicle to vehicle. This bracket will help your OEM flare and the flare extension line up, so adjust this as needed.
- b. Be sure to install the provided u-nuts in their proper location and orientation. Flat face should go toward the wheel opening.
- c. It can be helpful to install the brackets while fitting up the flare extension to make sure you are using the correct holes and orientation of the brackets.
- d. Pay close attention to how the AEV flare extension fender bracket is bent when installing. (Figure 15.2)



Figure 15.1

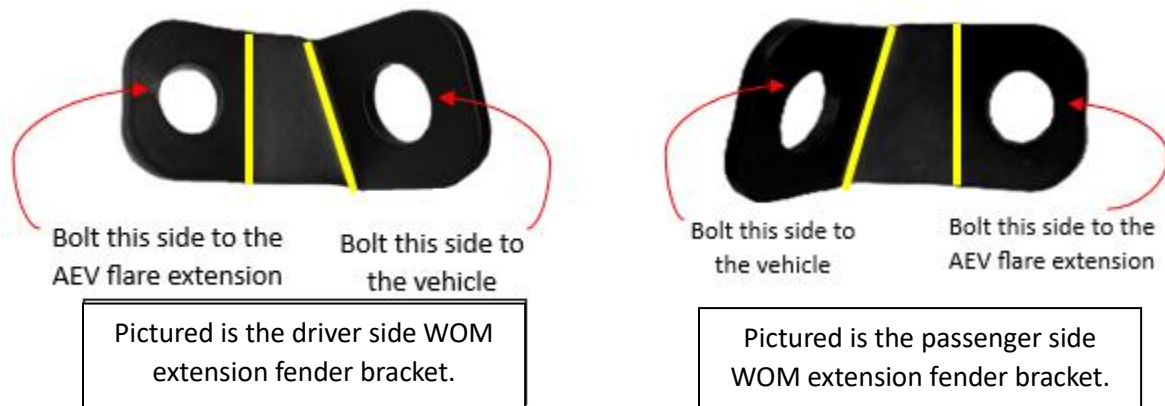


Figure 15.2

7. Repeat these steps on the RH side.

### III. REINSTALL

1. Reinstall your wheel liner



- a. Loosely install all m4 bolts; once everything is loosely installed, tighten up the bolts.
- b. (GMC only) Modify the rear of front wheel liner with the listed modifications below.
  - i. (GMC only) Remove u-nut on the back outboard side of the wheel liner
  - ii. (GMC only) Cut a horizontal 2-inch slit in the wheel liner to allow flare extension and wheel liner to be pushed back. (Figure 16.1) This cut will be at the top of the trimmed fender (Figure 16.2).
  - iii. (GMC only) Drill a hole in the wheel liner to accommodate your new AEV flare extension. To do this pull back the wheel liner to reveal the L-Bracket u-nut and line up the hole.

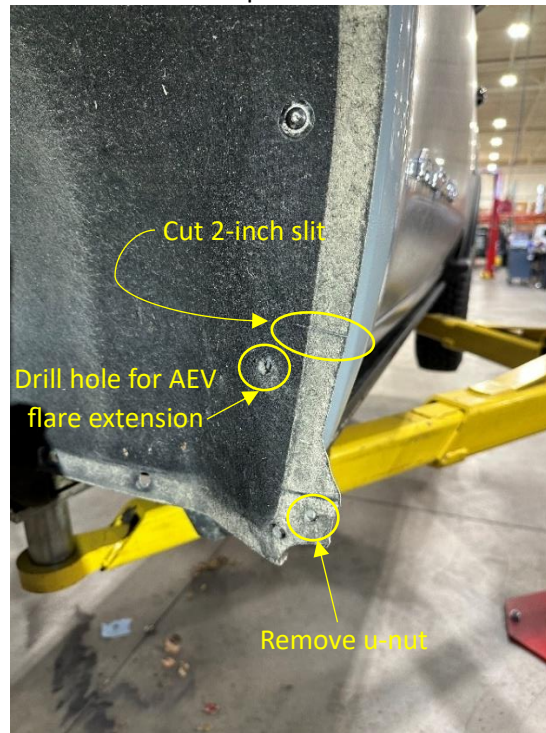


Figure 16.1



Figure 16.2

2. (GMC only) Reinstall the OEM flare from the backside working your way forward. Do not forget to plug in the light at the top of the flare.
3. (GMC ONLY) Add trimming to the OEM flare to house the AEV flare extension.



- a. CAUTION: Take your time when trimming the OEM flare. This can take multiple cuts and may require you to take the AEV flare extension on and off a few times. Use caution to trim accurately, this edge will be visible once reinstalled and excessive trimming will leave a gap.
  - i. NOTE: This can be cut with shears or a sharp knife.
- b. Once your OEM flare is re-installed, put a piece of tape on it where the AEV flare extension meets up with the OEM flare. Trim the bottom corner of the OEM flare first. Begin cutting the OEM flare in small chunks until you can loosely install your AEV flare extension. Once you are able, loosely install the AEV flare extension and trace an outline of the AEV flare extension onto the tape. (Figure 17.1)
- c. Remove the AEV flare extension and begin to cut the OEM flare using your traced line as guidance.
  - i. Take your time while cutting. This should be done in multiple steps and will require you to take the AEV flare extension on and off to line up properly.
- d. The end result is shown as reference. (Figure 17.2)



Figure 17.1



Figure 17.2

4. Reinstall your OEM front closeouts with new AEV closeout attached. (Figure 18)



Figure 18

5. Reinstall your radiator skid.
6. Reinstall your wheel and tire.
7. Repeat these steps on the RH side.
8. Enjoy your new AEV 37" Tire Clearance Kit!



| Vehicle Part              | Hardware            | Torque Spec         |
|---------------------------|---------------------|---------------------|
| Front Wheel Liner Bracket | M6 bolts            | 11Nm (8lb-ft)       |
| Pencil Brace              | M10 bolts           | 67Nm (49lb-ft)      |
| Rear Wheel Liner Brackets | M8 bolts            | 24Nm (18lb-ft)      |
| Closeouts                 | M4.2 screws         | 3Nm (27lb-in)       |
| Flare Extension Bracket   | M6 bolts            | 11Nm (8lb-ft)       |
| Skid Plate                | M10 bolts           | 67Nm (49lb-ft)      |
| Skid Plate                | M8 (T40 head) bolts | 34Nm (25lb-ft)      |
| Wheels                    | M14 lug nuts        | 190 Nm (140 lb- ft) |