

Preparation:

- Disconnect the negative battery terminal. Park the vehicle on level ground and set the emergency brake.
- We recommend reading through the installation instructions in whole before performing the work.
- Estimated Installation Time: **4 Hours**
****This installation requires 2 people for best results****

You will need the following tools:

- | | | |
|------------------|-----------------------------|-----------------|
| - Ratchet | - 10mm Socket | - 15mm Socket |
| - 17mm Socket | - 18mm Socket | - T-15 Torx Bit |
| - Measuring Tape | - Sharpie | - Masking Tape |
| - Cutoff Wheel | - 3/16" Allen Wrench/Socket | |

Included in Kit:

- | | |
|--------------------------------------|---------------------|
| 2 - Button Head Bolts (5/16-18 x 1") | 2 - Washers (5/16") |
| 2 - U-Nuts (5/16"-18) | |

Removal:

1. Using a 15mm Socket, remove the skid plate mounting bolts (x4). Then, remove the skid plate from the vehicle. **Save the skid plate and bolts for reuse.** (Fig A)



Fig A

2. Using a 10mm Socket, remove the two bolts referenced in (Fig B). **Save these bolts for reuse.**



Fig B



3. Using a 7mm Socket, remove the lower inner fender liner bolt. (Fig C)

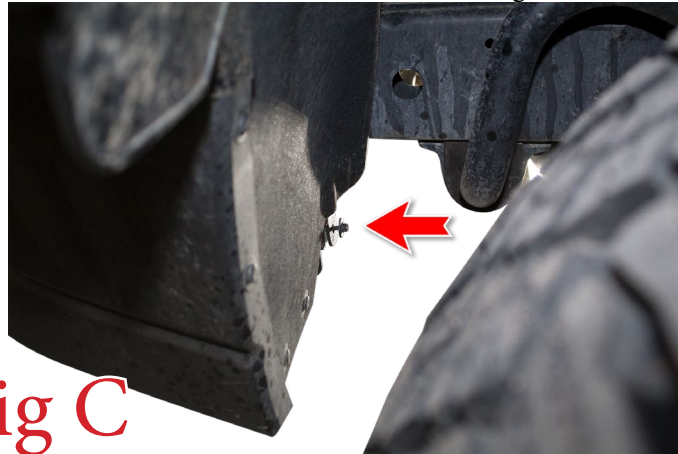


Fig C

4. Find the body line that runs horizontal across the front of the truck, just under the grille. We will be using this body line as a point to measure from for the next 3 steps. (Fig D)



Fig D

5. In the very center of the truck, measure .71 inches from the horizontal body line from Step 4 downward. Make a mark in this position. () In the pictures, the yellow masking tape follows the body line we are measuring from. We have marked our point with sharpie on the yellow masking tape. (Fig E)

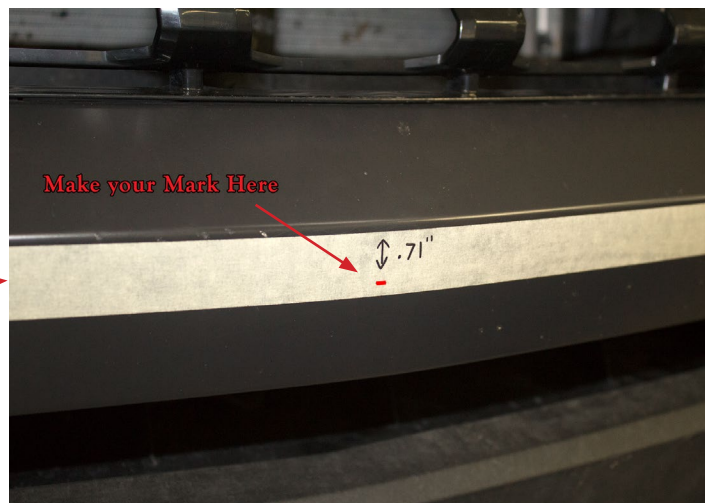


Fig E



6. You will need to make two more measurements using the body line from Step 4. First, measure 3.5 inches inward from the outer edge of the grille along this body line. Then, measure .89 inches downward from that point and make a mark. Repeat this on the other side of the grille. (Fig F)



7. Connect the three marks you made in Steps 5 & 6 to make a straight horizontal line across the front of the vehicle. In the pictures, the red line represents the line you need to make. (Fig G)



8. Find the horizontal body line on the side pods of your OEM bumper that is the same height as the body line from Step 4. In the pictures, the red line follows this body line. (Fig H)





9. Following the body line from Step 8, measure 1 inch outwards from the start of the bumper side pod, then measure .57 inches down and make a mark. (Fig I)



10. Following the body line from Step 8, measure 3 3/8 inches outwards from the start of the bumper side pod, then measure .57 inches down and make a mark. (Fig J)





11. Following the body line from Step 8, measure 7 3/8 inches outwards from the start of the bumper side pod, then measure .59 inches down and make a mark. (Fig K)



12. Following the body line from Step 8, measure 19 inches outwards from the start of the bumper side pod, then measure .71 inches down and make a mark. (Fig L)

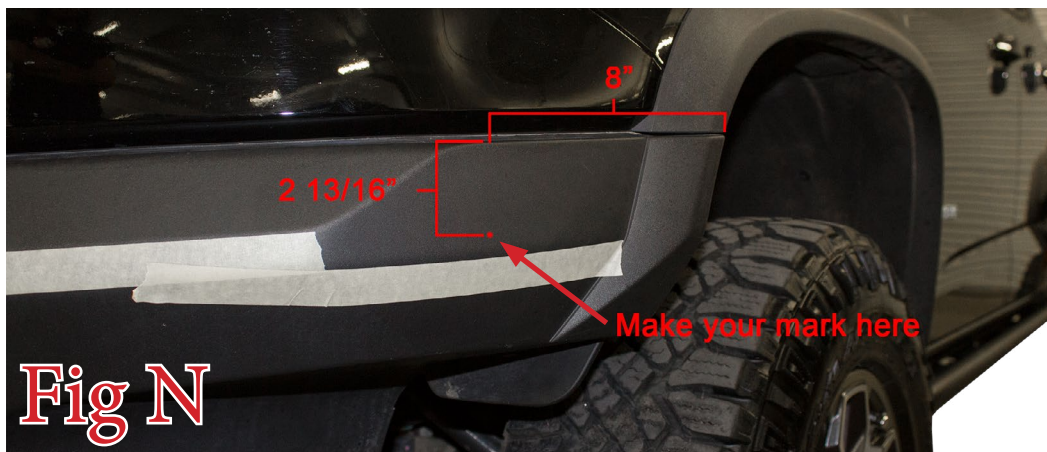




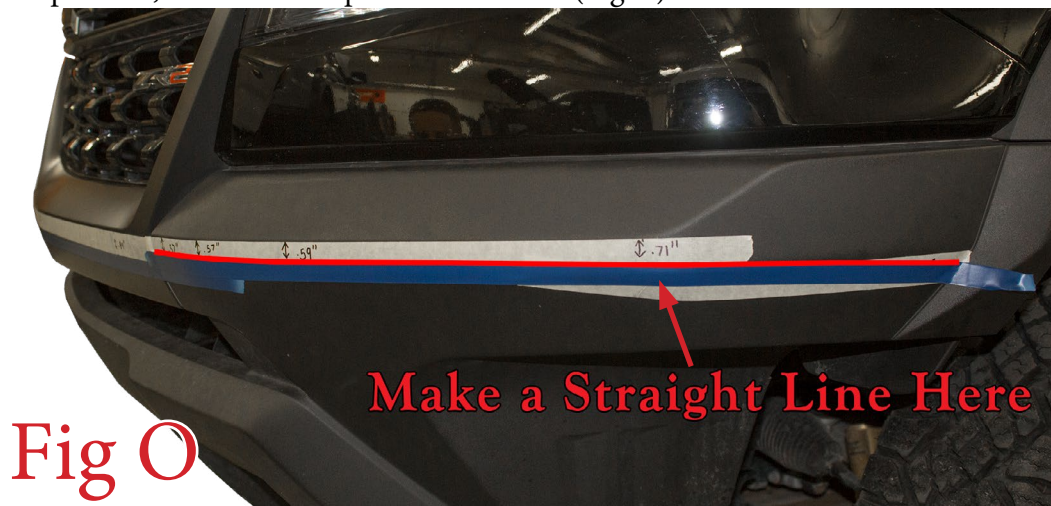
13. Measure down 3 1/8" along the very end of the fender flare and make a mark. (Fig M)



14. Measure 8 inches inward from the end of the fender flare. Then, measure 2 13/16" down from that and make a mark. (Fig N)



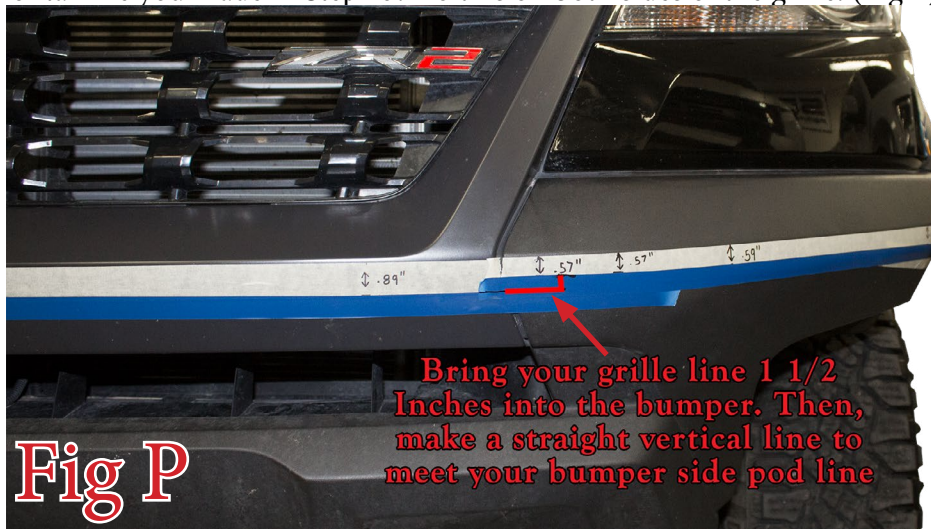
15. Connect the marks you made in Steps 9, 10, 11, 12, & 14 to make a straight horizontal line across the front of the vehicle. In the pictures, the red line represents this line. (Fig O)





16. Repeat Steps 8-15 on the other side of the vehicle.

17. This step will address the cut that needs to be made where the grille/side pods of the bumper meet. Extend the line from Step 7, 1 1/2" into each bumper side pod. Then, from that point, make a straight vertical line to meet the horizontal line you made in Step 15. Do this on both sides of the grille. (Fig P)



18. Using a cutoff wheel, cut along the lines you just made. When you make the cut, **LEAVE BETWEEN 1/4" AND 1/2" OF EXTRA MATERIAL SO THAT YOU CAN USE THE BUMPER TO LINE UP YOUR FINAL TRIMMING.** (Fig Q)

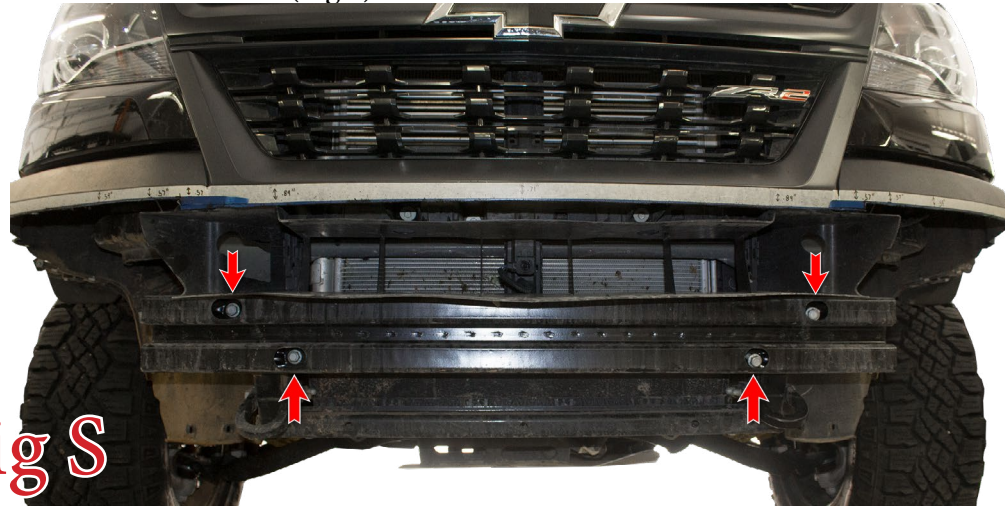


19. Using a T-15 Torx Bit, remove 5 inner fender bolts. Four of them are accessible looking into the wheel well towards the front of the vehicle, while the last one is just in front of the wheel well and can be seen from underneath the truck. (Fig R)

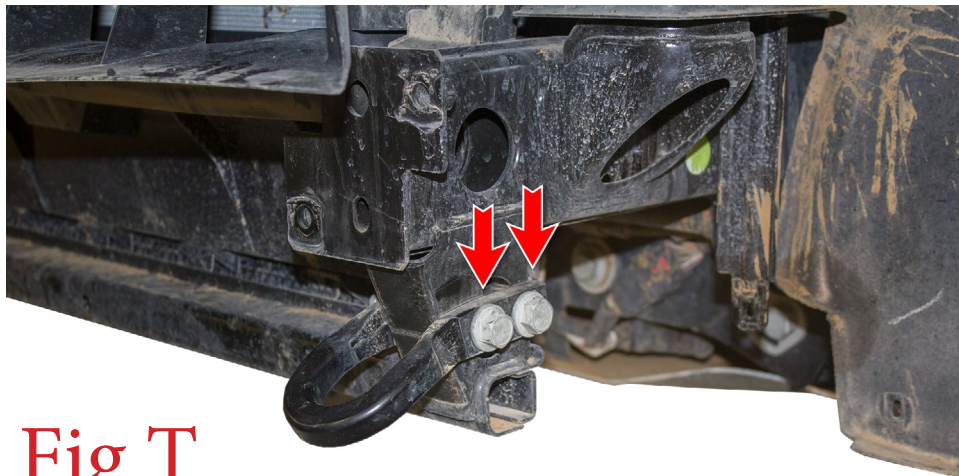




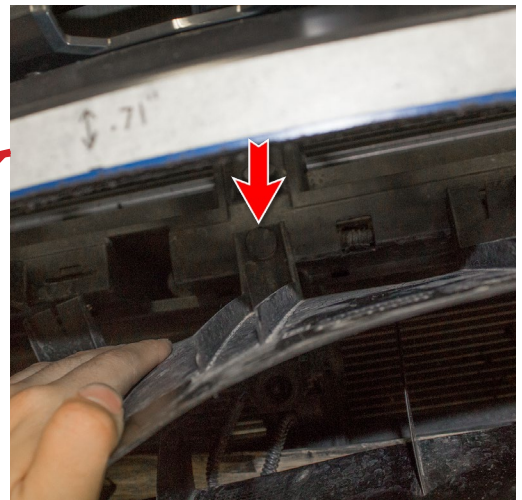
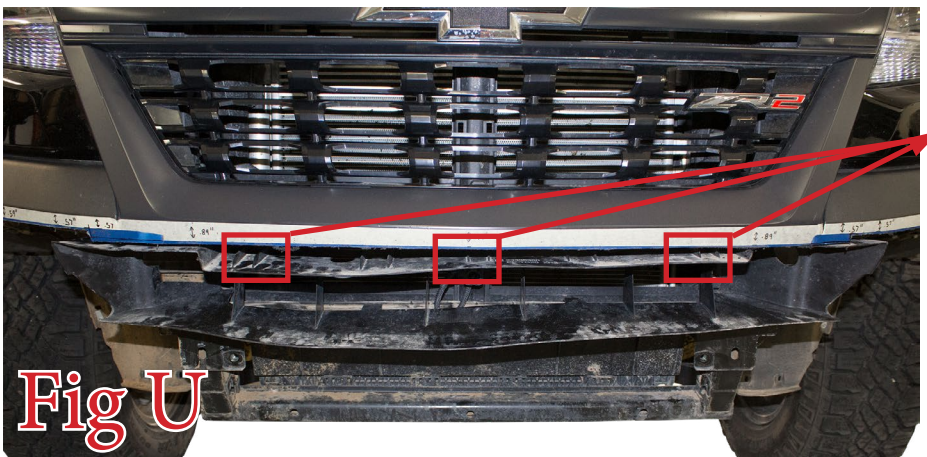
- 20. Remove the plastic bumper cover from the vehicle.
- 21. Using a 15mm Socket, remove the bumper mounting bolts (x4). Then, remove the metal bumper bar from the vehicle. **Save these bolts for reuse.** (Fig S)



- 22. Using an 18mm Socket, remove the tow hook bolts (2 per hook). Then, remove the tow hooks from the vehicle. (Fig T)



- 23. Remove the plastic structure that sits just under the grille. Do this by releasing a series of clips on the top side of that structure. (Fig U)



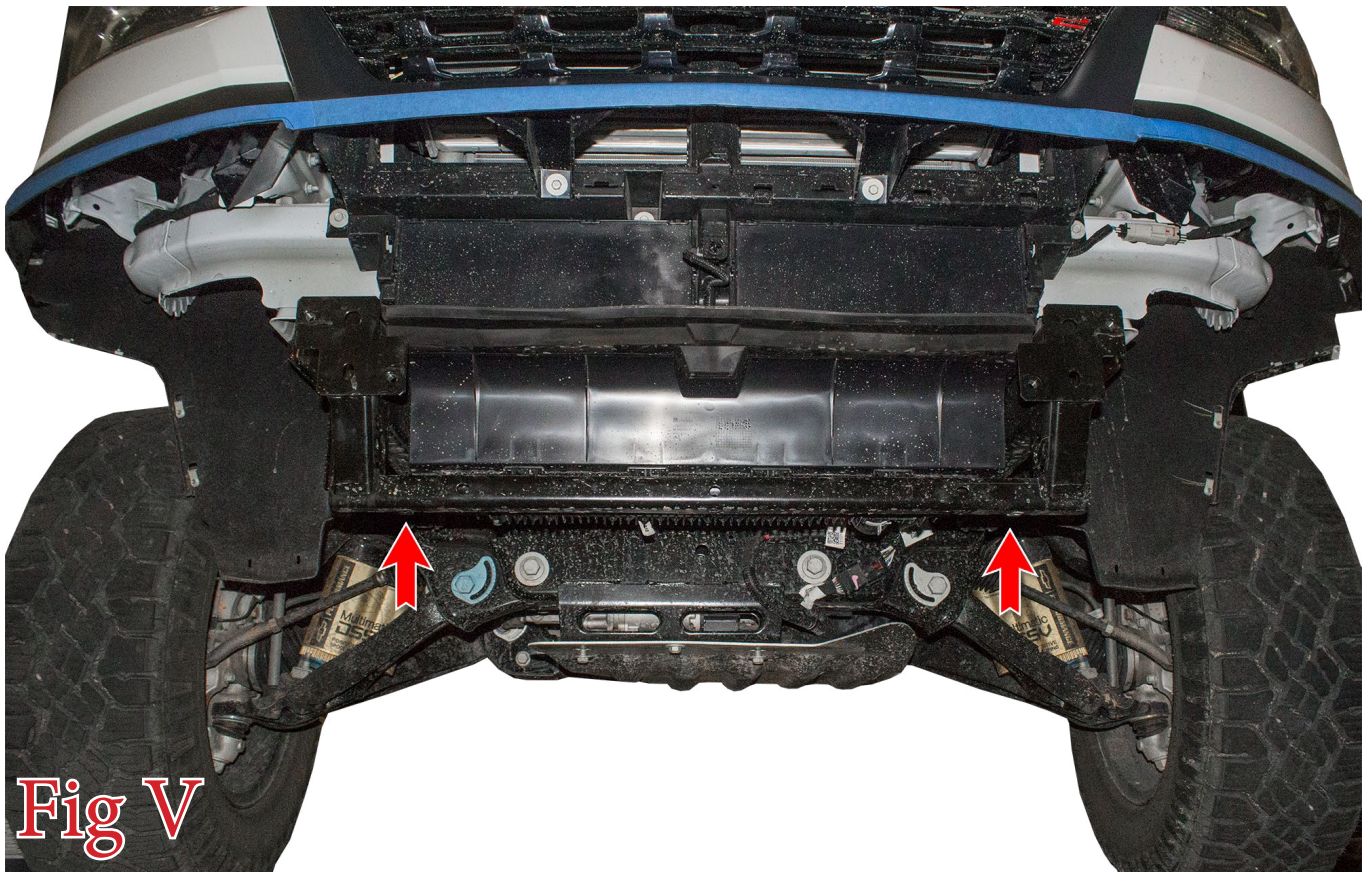


24. Hold the bumper in place, then use it as a template to mark out any additional trimming that might need to be done for a proper fit. You may have to do this several times. Do not take too much material off at once or your cuts may not turn out right. Also be careful to keep the gap between the valance and the bumper even across the entire cut.

Installation:

25. If you have lights or a winch to install on your bumper, now is a good time to do so. Make sure to follow the light/winch manufacturer's guide for mounting and wiring information.

26. Remove the factory U-nuts on the bottom cross member and replace them with the supplied 5/16" U-Nuts (x2). (Fig V)





27. Using the bolts you saved from Step 21, mount your new bumper to the vehicle. Leave these bolts loose for now. (Fig W)



28. Using a 3/16" Allen Wrench or Socket, install the supplied 5/16" Bolts (x2) and 5/16" Washers (x2) in the lower bumper mounting bolts. Leave these bolts loose for now (Fig X)





29. Align the bumper so that it is centered left to right and straight in relation to the grille. Then, tighten the upper bumper mounting bolts to the OEM torque specification. Tighten the lower bumper mounting bolts to 13 foot pounds.
32. Mount your OEM skid plate in its original position on the truck. Use the hardware you saved in Step 1 to secure it to the vehicle. (Fig Y)



Fig Y

33. Using a utility knife, or something similar, trim your inner fender liners to preference. We recommend following a line similar to what is shown in (Fig Z).



Fig Z

30. Stand back and enjoy your new ADD Stealth Fighter™ Front Bumper.
31. Check, and re-tighten if needed, all mounting bolts after 100 miles and periodically thereafter.

