

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: **2 Hours for OEM Removal/Bumper Installation**

1 Additional Hour to Wire Center Light

1 Additional Hour to Wire Side Lights

****This installation requires 2 people for best results****

****Labor Rates are based on a vehicle with no pre-existing damage. Wiring labor is based on a standard wiring procedure with light switches installed in an easily accessible location. Custom light triggering or switch mounting location will result in a greater labor charge.****

You will need the following tools:

- | | | |
|-----------------------------|------------------------|-----------------------------|
| - Ratchet | - 5.5mm Socket | - 7mm Socket |
| - 10mm Socket | - 15mm Socket | - 21mm Socket |
| - 9/16" Socket | - 3/4" Socket & Wrench | - 1 1/16" Socket |
| - Drill | - 11/64" Drill Bit | - 5/16" Allen Wrench/Socket |
| - 7/32" Allen Wrench/Socket | - Reciprocating Saw | - Black Paint |

Included in Kit:

- | | |
|--|-----------------------------------|
| 2 - Black Button Head Bolts (1/2"-13 x 1 1/2") | 2 - Hex Head Bolts (3/8"-16 x 1") |
| 2 - Black Flat Washers (1/2") | 2 - Fender Washers (3/8") |
| 2 - Black Nylon Lock Nuts (1/2"-13) | 2 - Extra Long U-Nuts (3/8"-16) |
| 2 - Hex Head Bolts (1/2"-13 x 1 1/2") | 4 - Flat Washers (1/2") |
| 2 - Nylon Lock Nuts (1/2"-13) | 1 - Skid Plate Mounting Bracket |
| 2 - Light Mount Tabs (Dual 20" Only) | |

****If your vehicle does not have a bracket lift, you will need an alignment after this installation.****

****If you are installing an Adaptive Cruise Control Relocation Bracket, please copy and paste the following address in your browser for installation information****

Removal:

1. From underneath the truck, unplug the fog light connectors.
2. Pull the front plastic pods off each end of the OEM bumper. There are no tools required for this step, they simply pull off by hand. (Fig A)

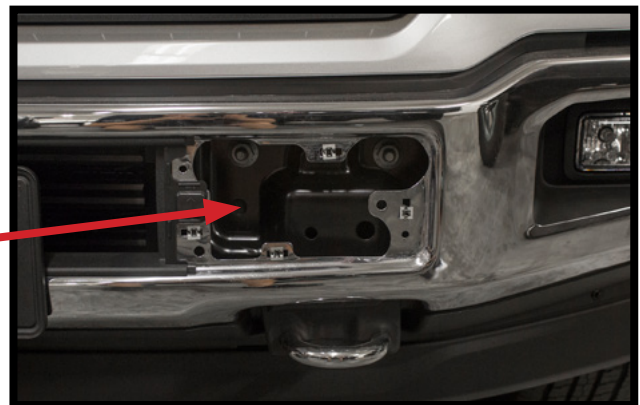


Fig A

5. From underneath the truck, remove the two plastic clips holding the fog light harness to the OEM bumper. (Fig B)



Fig B



3. Using a 21mm Socket, remove the OEM bumper mounting bolts. There are two (per side) on the front side of the bumper and one (per side) on the rear side of the bumper. (Fig C)

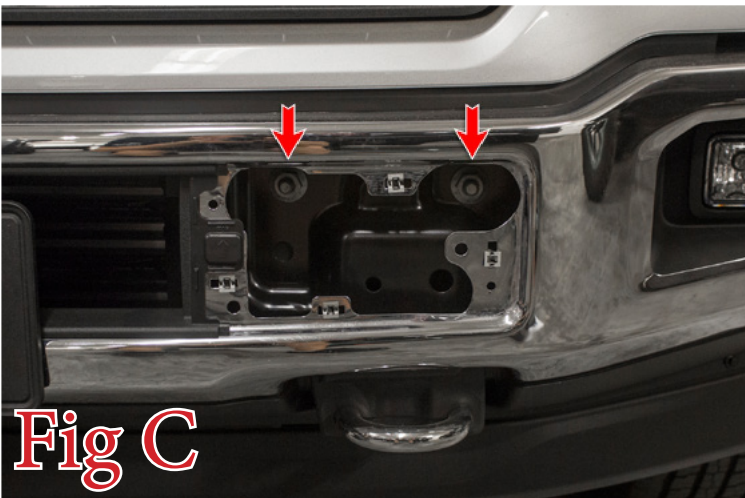


Fig C



4. Remove the OEM Bumper from the vehicle.
6. Using a 15mm Socket, remove the tow hook mounting bolts (2 per side). Then, remove the tow hooks from the vehicle. (Fig D) **Save the tow hooks and mounting hardware for reuse.**

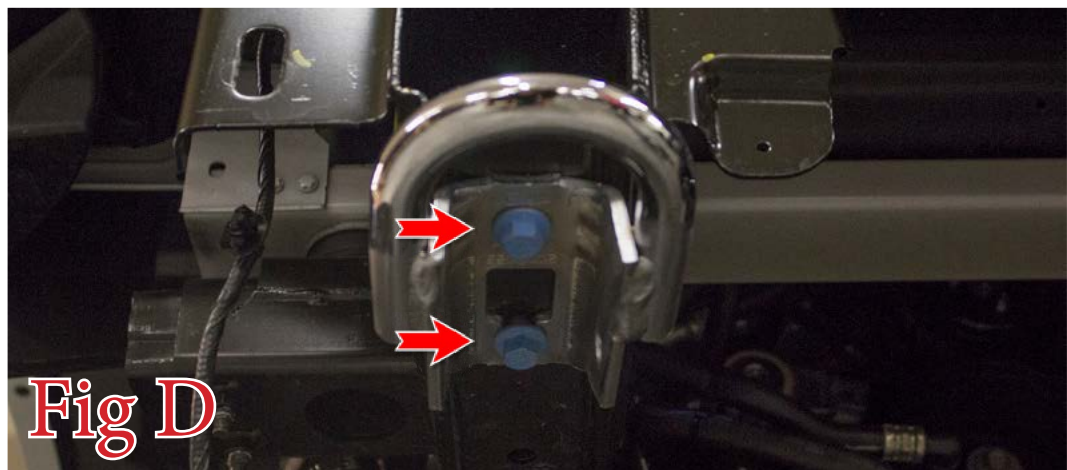
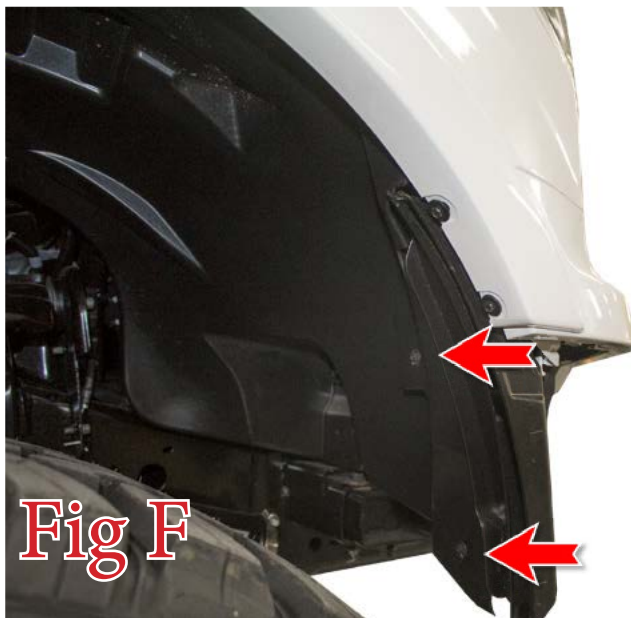


Fig D

7. Using a 7mm Socket, remove the two most forward bolts in the wheel well of your vehicle. (Fig E)



8. Using a 5.5mm Socket, remove the two inner fender bolts referenced in (Fig F).



9. Pull the fender flare free from the valance. Then, pull the valance free to expose the air dam sitting behind it. (Fig G)



10. Remove the plastic clip that was sitting just behind the fender flare. (Fig H)



11. Using a 10mm Socket, remove the air dam mounting bolts (x3). Then, remove this air dam from the vehicle (Fig I)



12. Push the valance back into place on the truck until it clicks into place. Then, push the fender flare back into place and reinstall the bolts you removed in Step 7.
13. Using a reciprocating saw or something similar, cut off the crash bars in the front section of the wheel well. Make sure to paint over any bare metal when you are done. (Fig J)

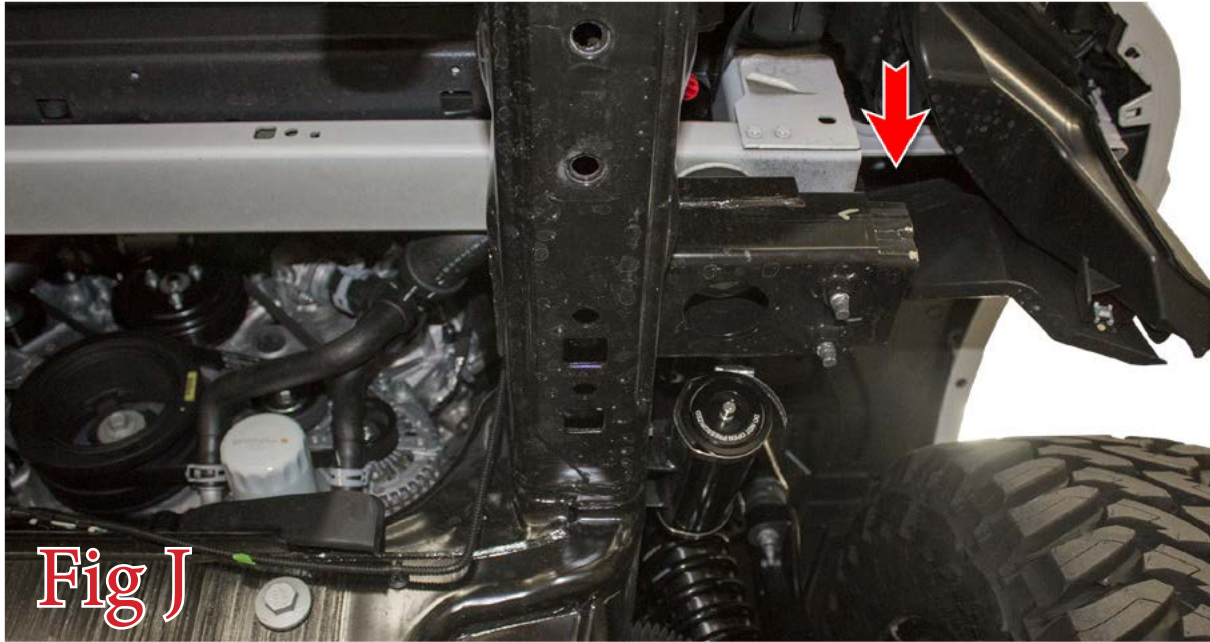


Fig J

14. Repeat Steps 7-13 on the other side of the vehicle.
15. If you have an Ecoboost engine, use an 8mm Socket to remove the four mounting bolts for the intercooler scoop. Then, remove that scoop from the vehicle. As you remove the scoop, unplug the intercooler shutter motor. (Fig K)

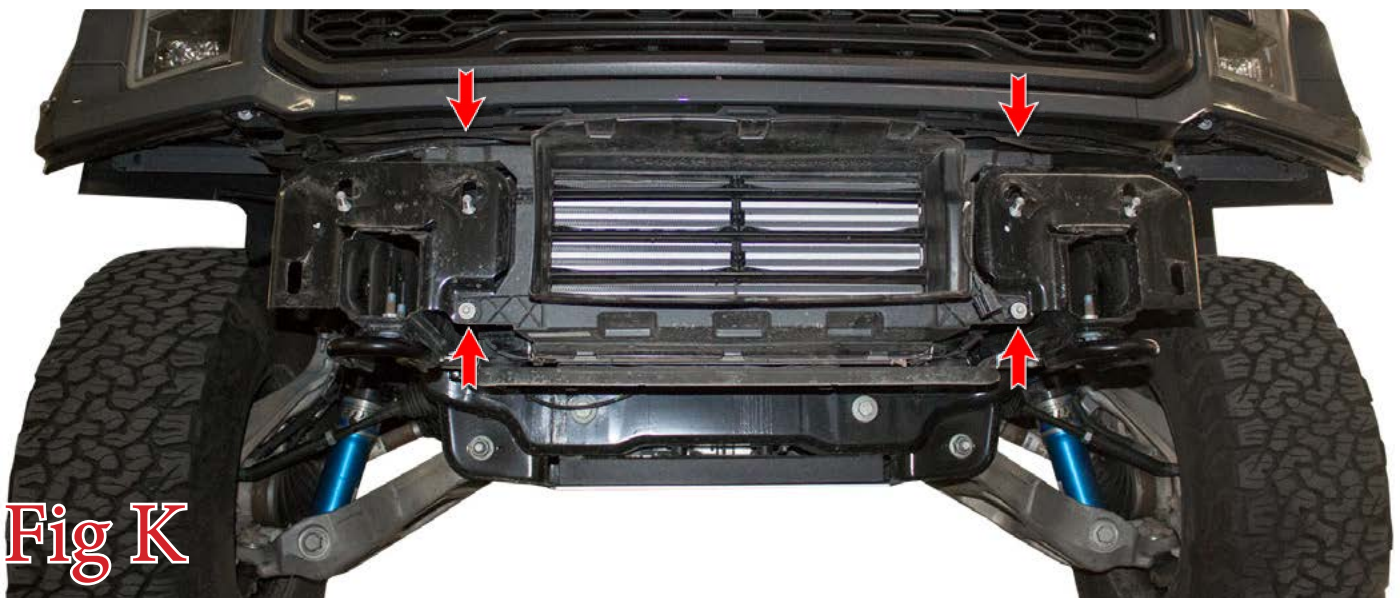
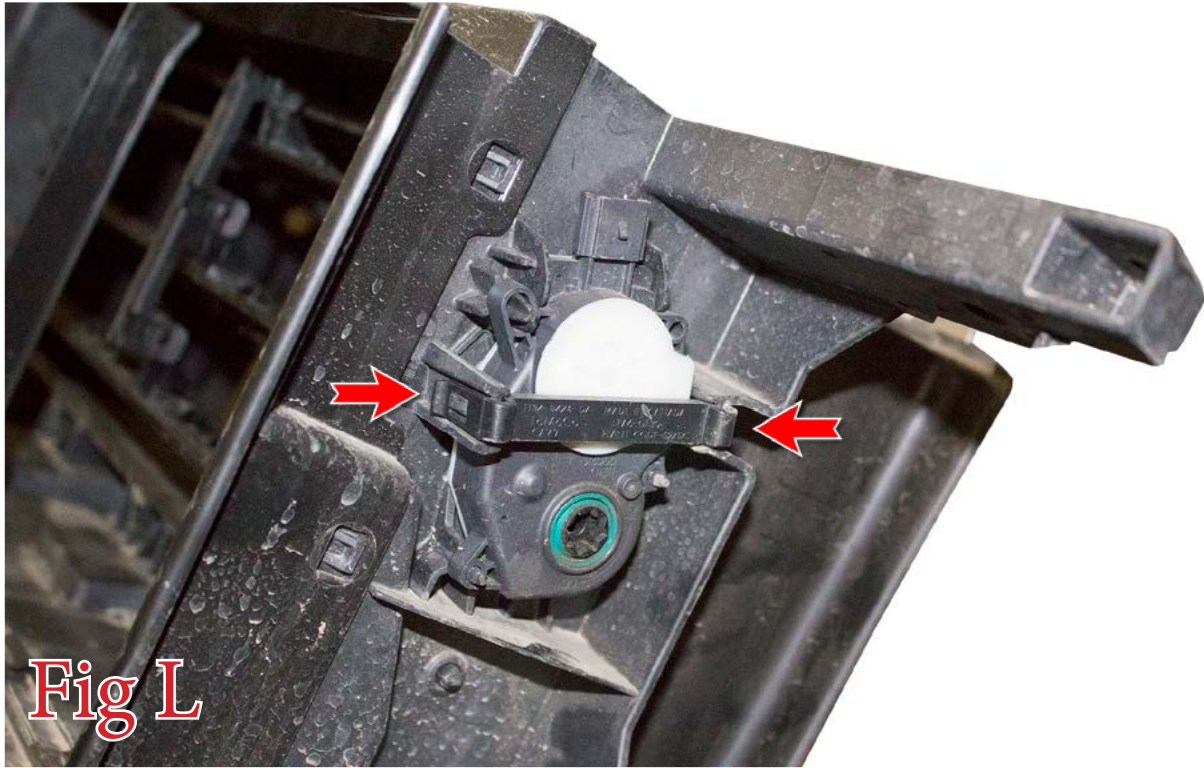


Fig K

16. Release the clip holding the intercooler shutter motor to the scoop assembly. Then, remove that motor from the assembly. (Fig L)



17. Plug the intercooler shutter motor back into the harness on the vehicle and zip tie it up and out of the way. (Fig M)



Installation:

18. Locate the supplied skid plate adapter shown in (Fig N).



Fig N

19. Using the supplied 1/2" Bolts (x2), 1/2" Washers (x4), and 1/2" Nuts (x2), secure the correct skid plate bracket to your new bumper. (Fig O) **Don't fully tighten these bolts yet.**



Fig O

20. If you have Rigid Lights, you can install them according to Rigid's installation instructions, then skip to Step 26. If you have Baja Designs lights, please follow Steps 21-23. If you have dual 20" Lights, skip to Step 24. (Fig P)

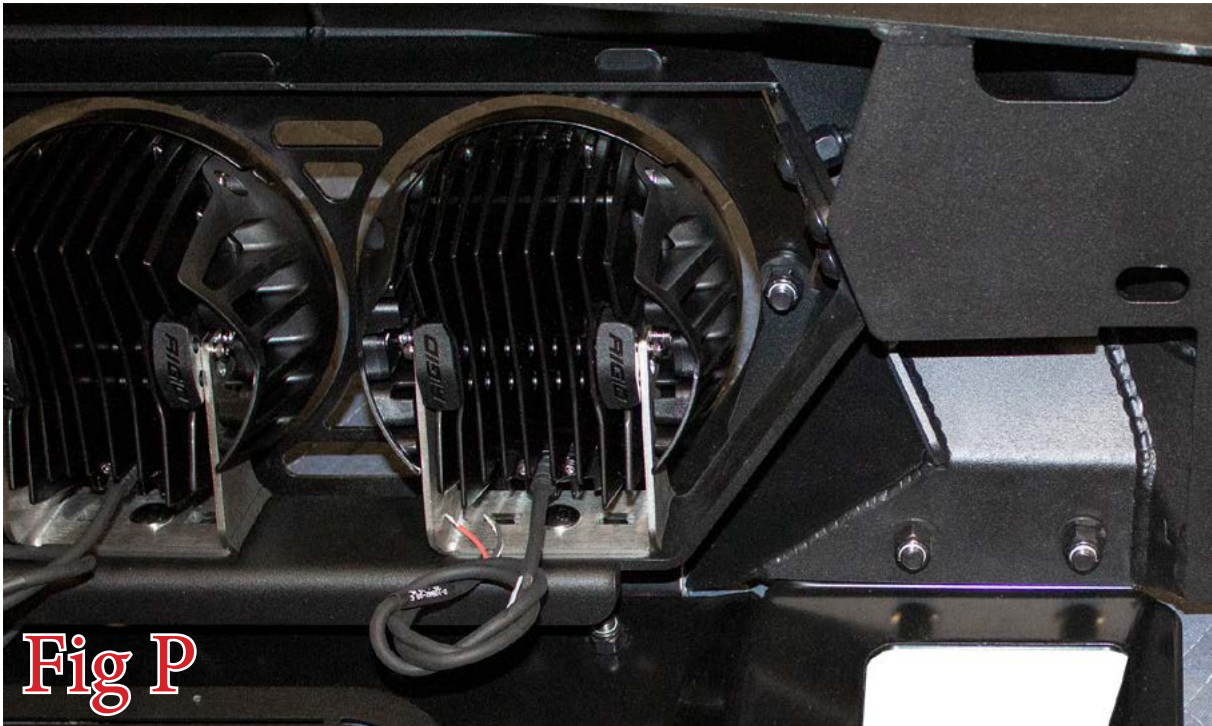


Fig P

21. If you have Baja Designs Lights, follow this step. Remove the mounting bolts for the light mounting bracket (3 per side). Then, remove this bar from the bumper. (Fig Q)



Fig Q

22. Use the hardware supplied with your Baja Designs lights to install the lights onto the light mount bracket as shown in (Fig R).



Fig R

23. Reinstall the light bracket onto your bumper by reinstalling the bolts from Step 21. (Fig S)



Fig S

24. If you have dual 20" Light Bars to install, follow this step. Find the two supplied Light Mount Tabs as well as the supplied 3/8" Carriage Bolts (x4), 3/8" Washers (x4), and 3/8" Lock Nuts (x4). Install the light tabs as shown, but be sure to leave the bolts loose for now. (Fig T)

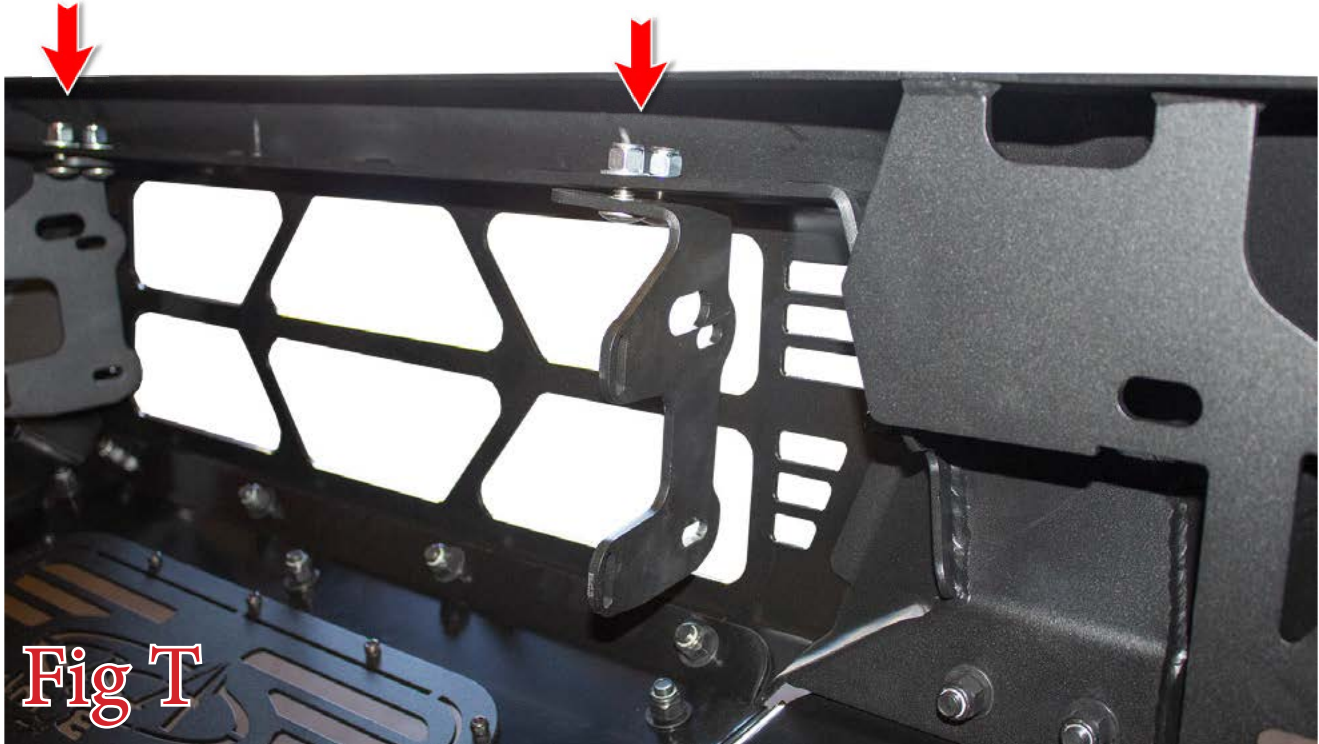


Fig T

25. Use the light manufacturer's hardware to install the light bars onto the light mount tabs. Then, go back and tighten the light tab mounting nuts to 30 foot pounds. (Fig U)

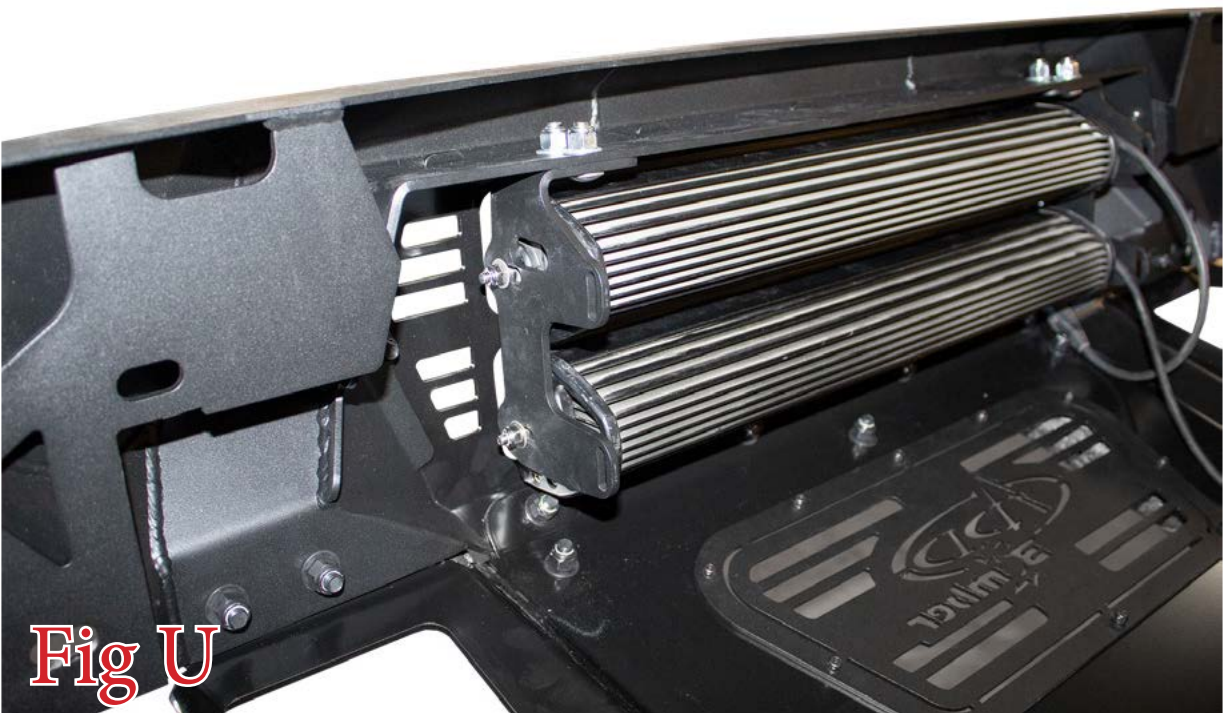
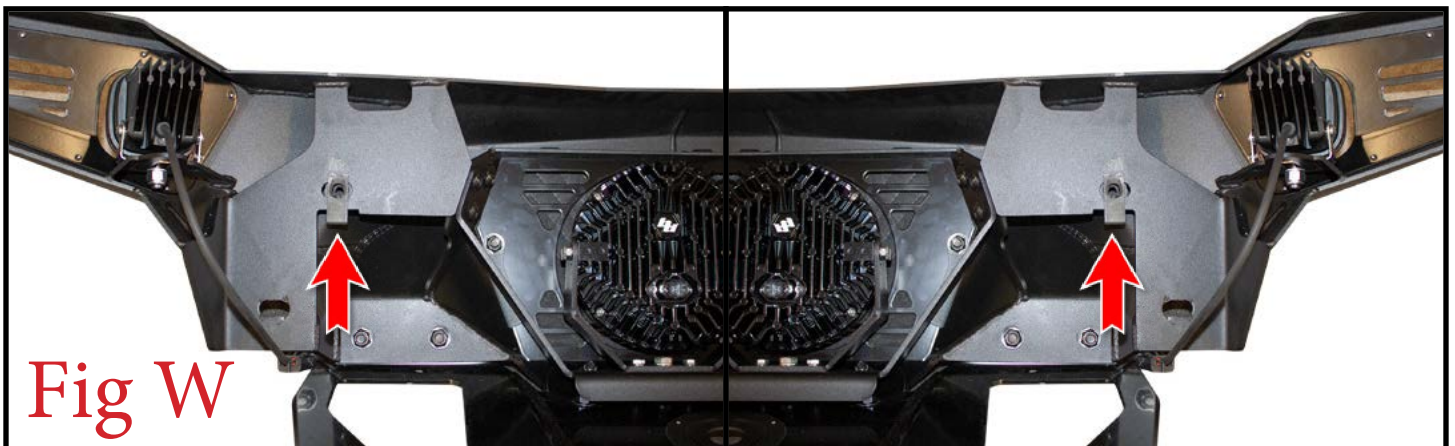


Fig U

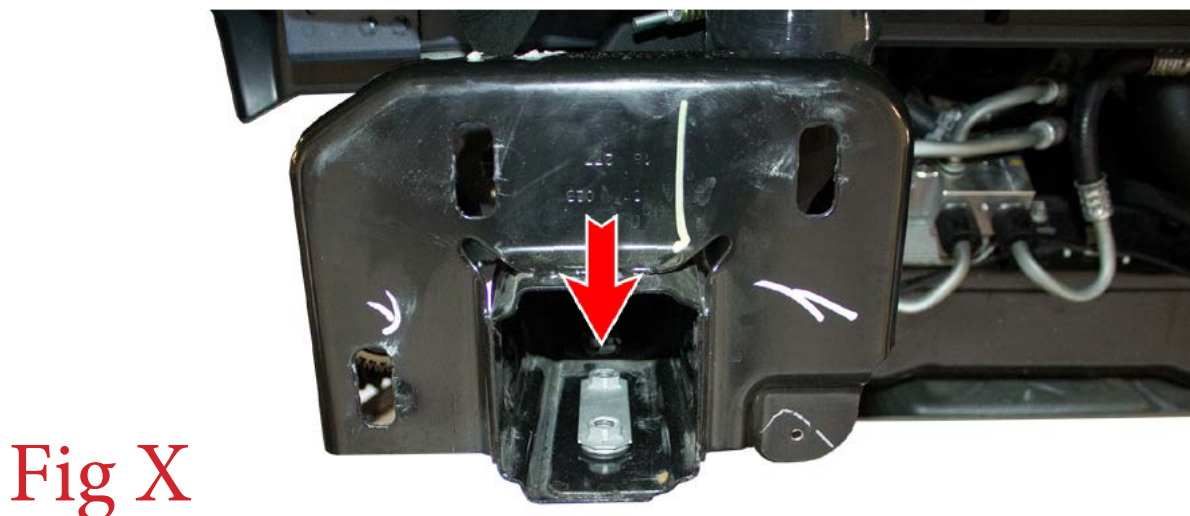
26. Use a 1 1/16" Socket to remove the bolts referenced in (Fig V).



27. Install the supplied Long U-Nuts (x2) onto your bumper as shown in (Fig W).



28. Set the tow hook nut plates in place inside the vehicle's frame horns. (Fig X)



29. Set the bumper in place on the vehicle. Install the supplied 3/8" Bolts (1 per side) and 3/8" Fender Washers (1 per side) from the back side of the vehicle's frame horns. (Fig Y) **Leave these bolts loose for now.**



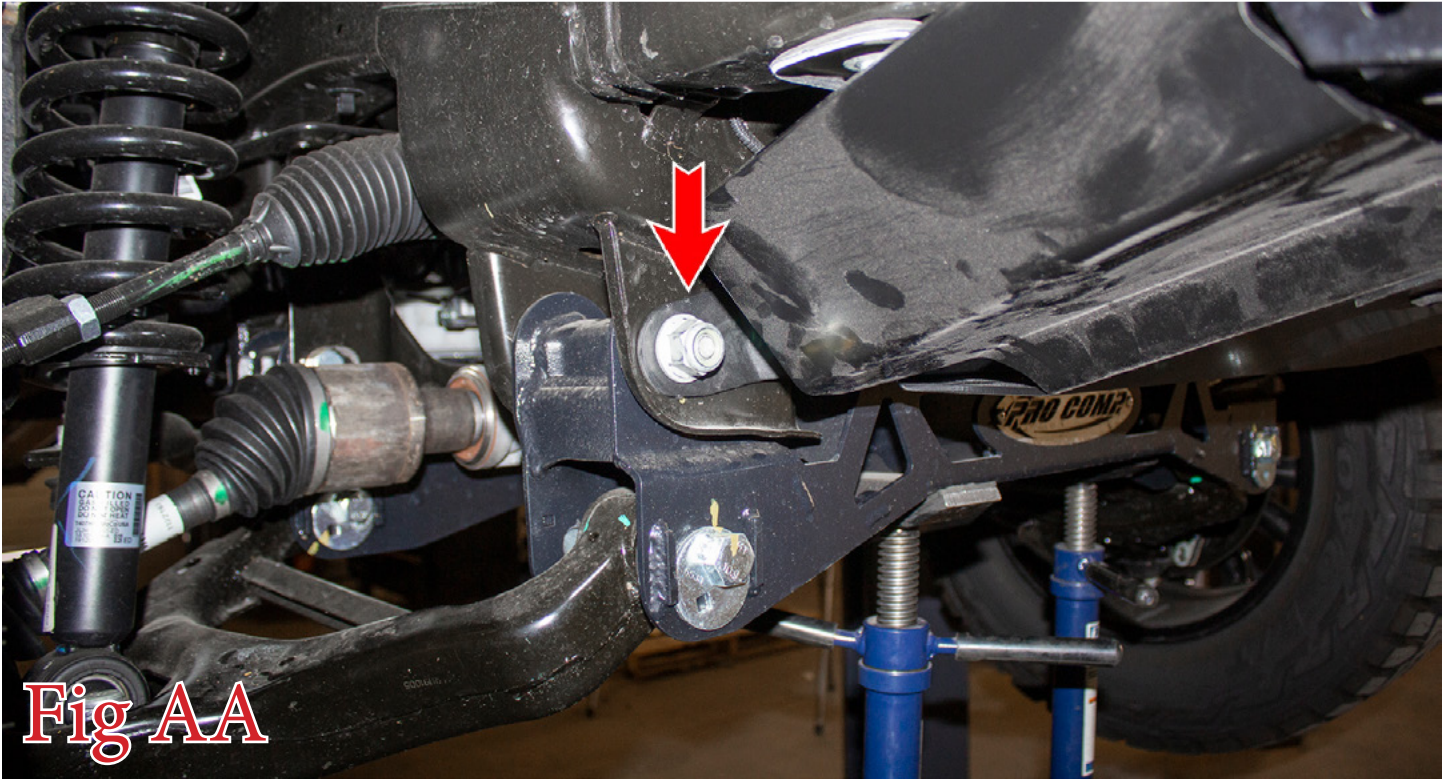
Fig Y

30. Install the supplied 1/2" Bolts (x2), 1/2" Washers (x2), and 1/2" Lock Nuts (x2) into remaining mounting holes on the vehicle's frame horns. (Fig Z) **Leave these bolts loose for now.**



Fig Z

31. Reinstall the bolts from Step 26 through lower bumper mounting holes as shown in (Fig AA). Torque these bolts to factory torque spec.

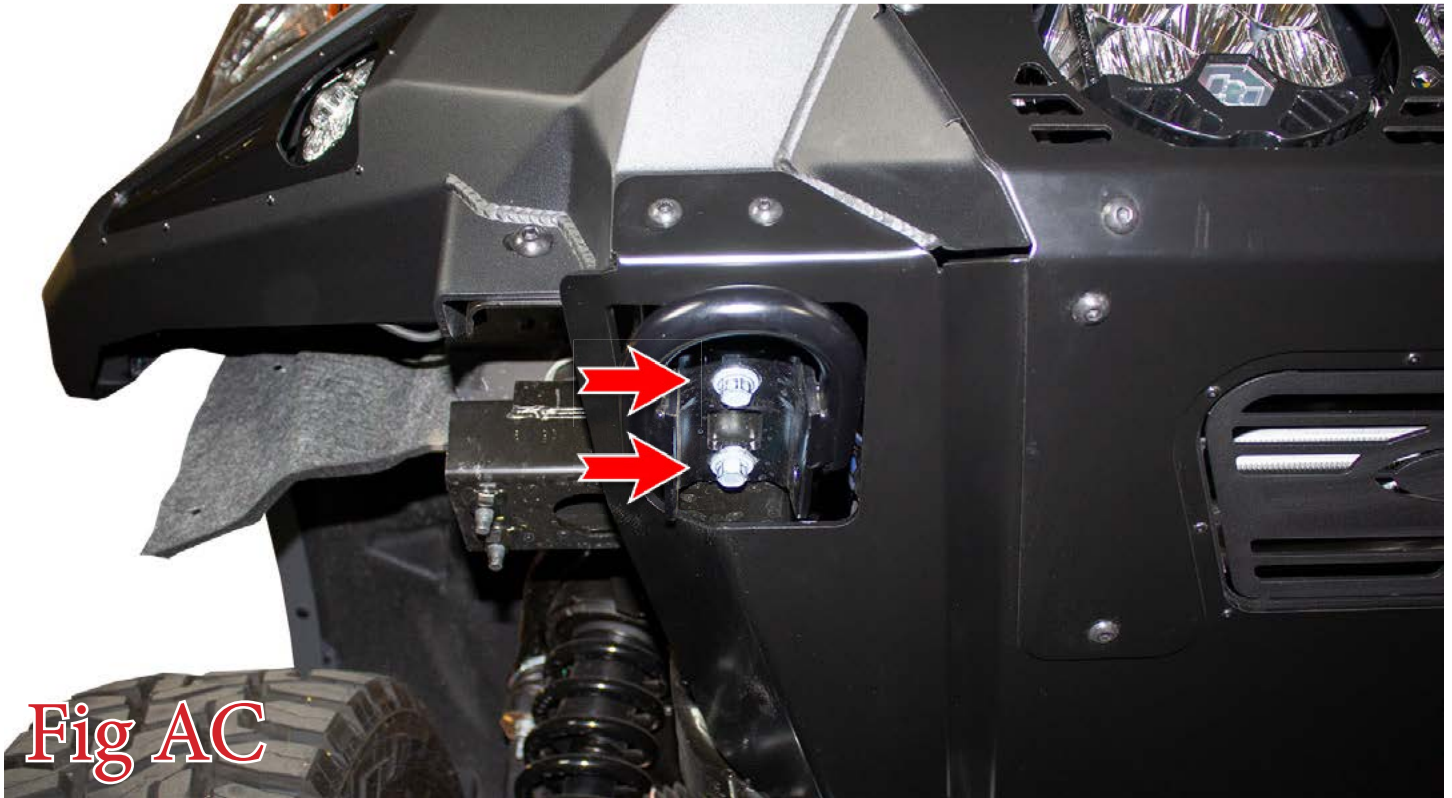


32. Align the bumper so it sits straight in relation to the grille/valance. Then, tighten the 3/8" mounting bolts from Step 29 to 25 foot pounds and the 1/2" mounting bolts from Step 30 to 70 foot pounds.

33. Adjust the height of the bumper's skid plate until the side pods of the bumper are straight in relation to the vehicle's valance. Then, tighten the 1/2" Bolts from Step 19 to 70 foot pounds. (Fig AB)



34. Install the tow hooks by reusing the bolts that were set aside in Step 6. (Fig AC)



35. Trim your inner fender liner to preference. We suggest following a line similar to what is shown in (Fig AD)



36. Stand back and enjoy your new ADD Bomber™ Front Bumper.
37. Check and re-tighten, if needed, all mounting bolts after 100 miles and periodically thereafter.

