

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.
- When button head bolts are being used, install the supplied washer on the nut side. Then, hold the bolt stationary and only turn the nut to tighten. Do not turn the bolt to tighten hardware assembly, unless otherwise noted.
- Estimated Installation Time: **2 Hours for OEM Removal/Bumper Installation**
1 Additional Hour to Wire 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 |
| - 8mm Socket | - 10mm Socket | - 21mm Socket |
| - 9/16" Socket | - 5/16" Allen Wrench/Socket | - 3/4" Wrench |
| - Reciprocating Saw | - Black Paint | |

Included in Kit:

- | | |
|--|---|
| 4 - Hex Head Bolts (3/8"-16 x 1") | 4 - Fender Washers (3/8") |
| 4 - U-Nuts (3/8"-16) | 2 - Button Head Bolts (1/2"-13 x 1 1/2") |
| 2 - Flat Washers (1/2") | 2 - Nylon Lock Nuts (1/2"-13) |
| 1 - Universal Light Mount Kit | |

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

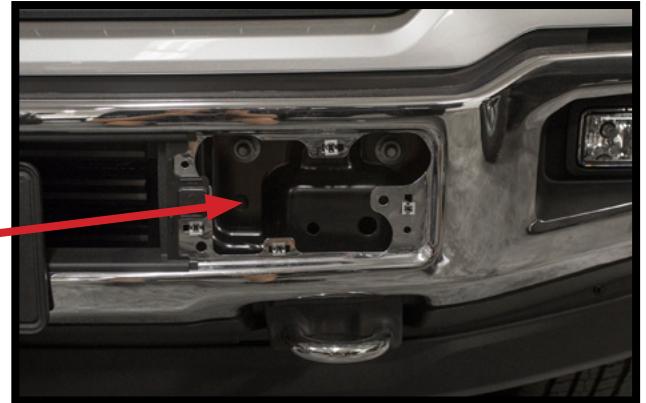
<http://www.addictivedesertdesigns.com/images/ADD%202015-Current%20F150%20Adaptive%20Cruise%20Relocation%20Bracket%20Installation%20Instructions.pdf>

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



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



Fig B



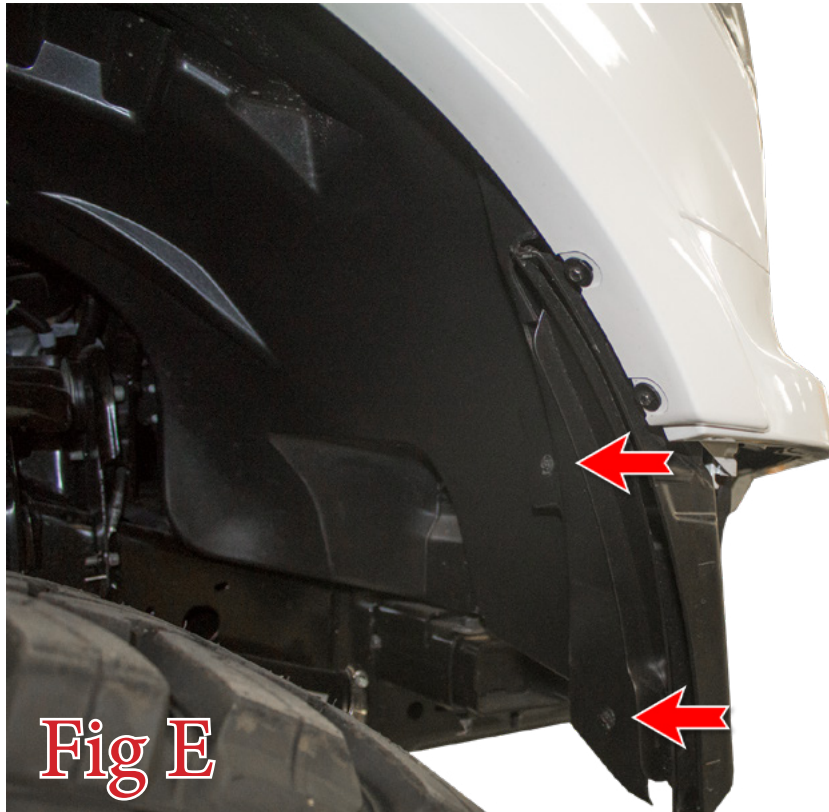
- Using a 21mm Socket, remove the OEM bumper mounting bolts. There are two (per side) on the front side of the bumper and one (per side) on the rear side of the bumper. (Fig C)



- Remove the OEM Bumper from the vehicle.
- Using a 7mm Socket, remove the two most forward bolts in the wheel well of your vehicle. (Fig D)



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



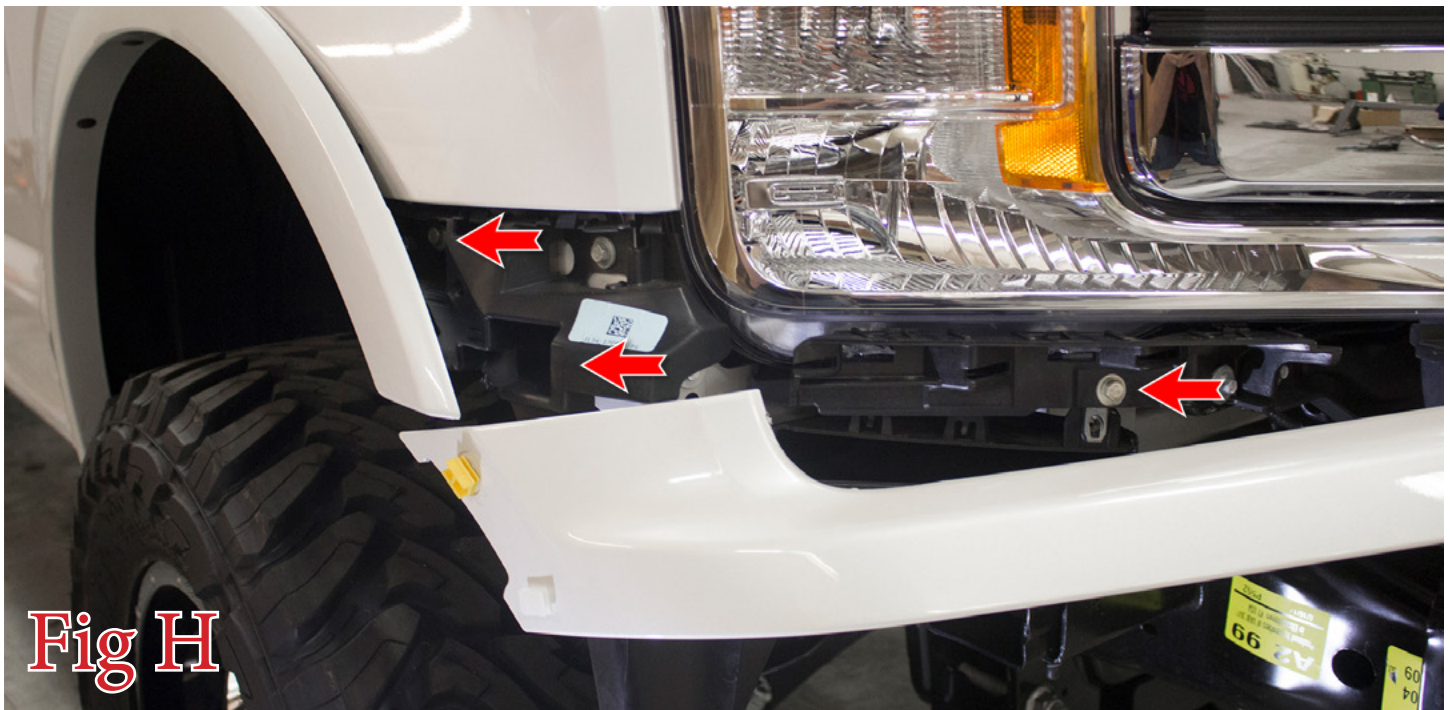
8. Pull the fender flare free from the valance. Then, pull the valance free to expose the air dam sitting behind it. (Fig F)



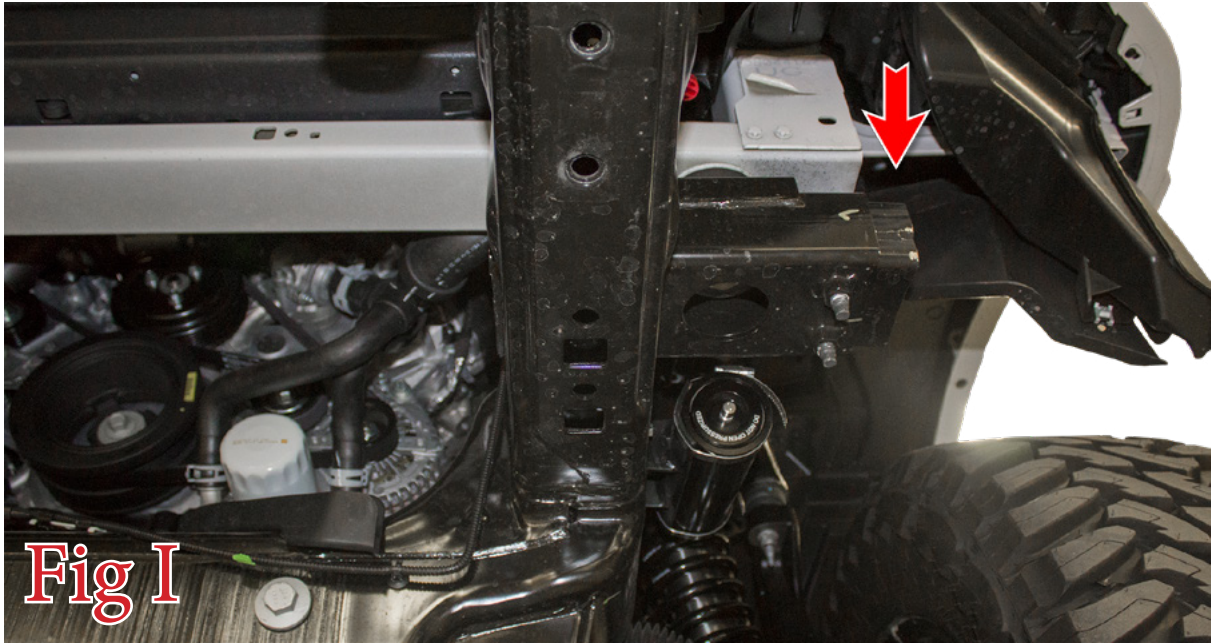
9. Remove the plastic clip that was sitting just behind the fender flare. (Fig G)



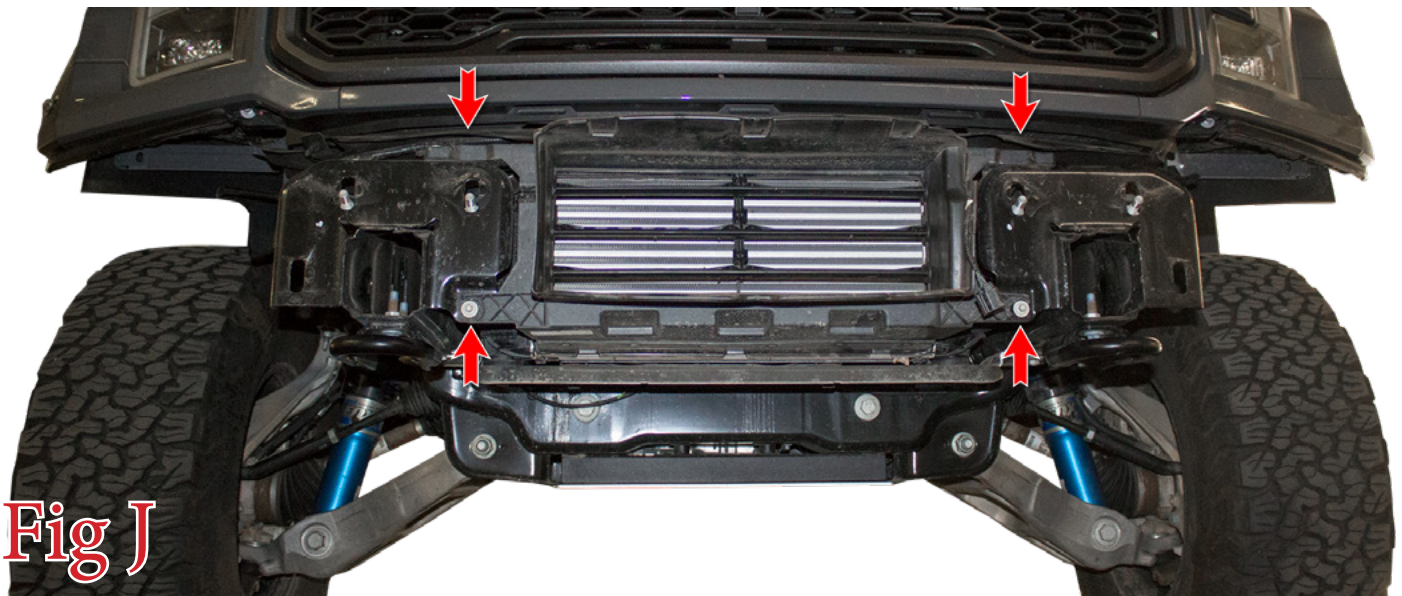
10. Using a 10mm Socket, remove the air dam mounting bolts (x3). Then, remove this air dam from the vehicle. (Fig H)



- 11. 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 6.
- 12. 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 I)



- 13. Repeat Steps 6-12 on the other side of the vehicle.
- 14. 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 J)



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

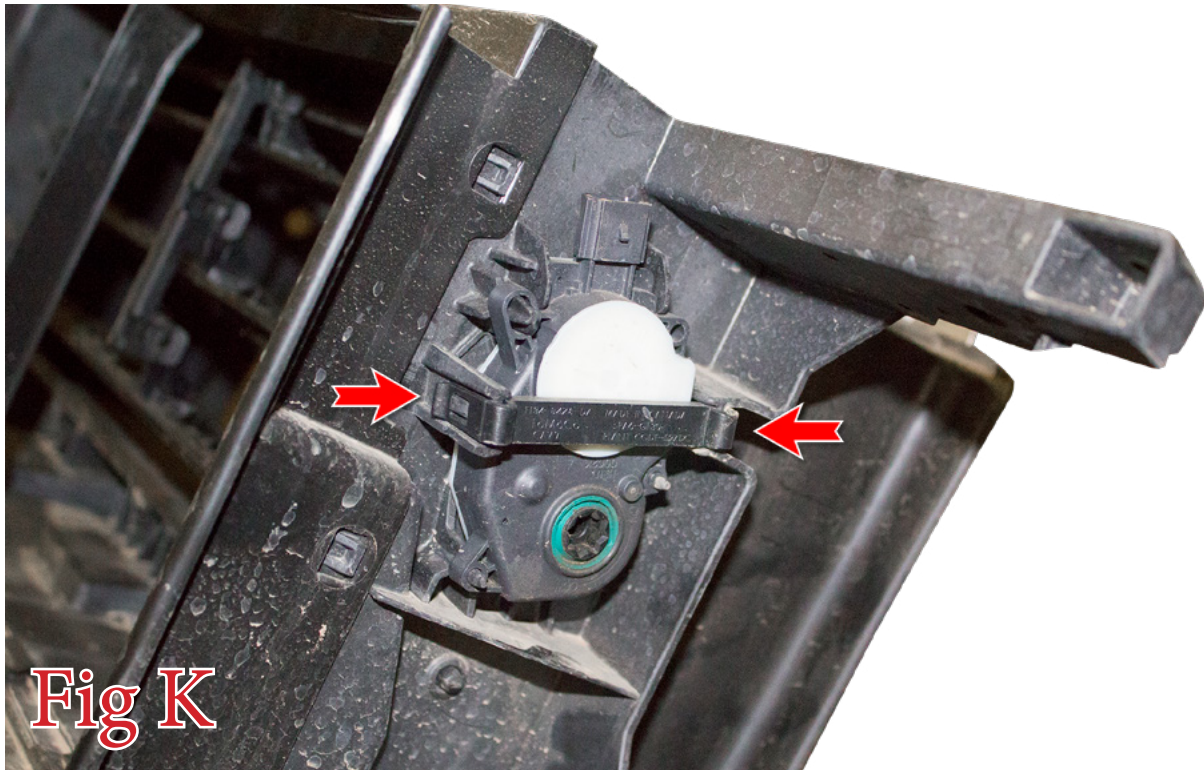


Fig K

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

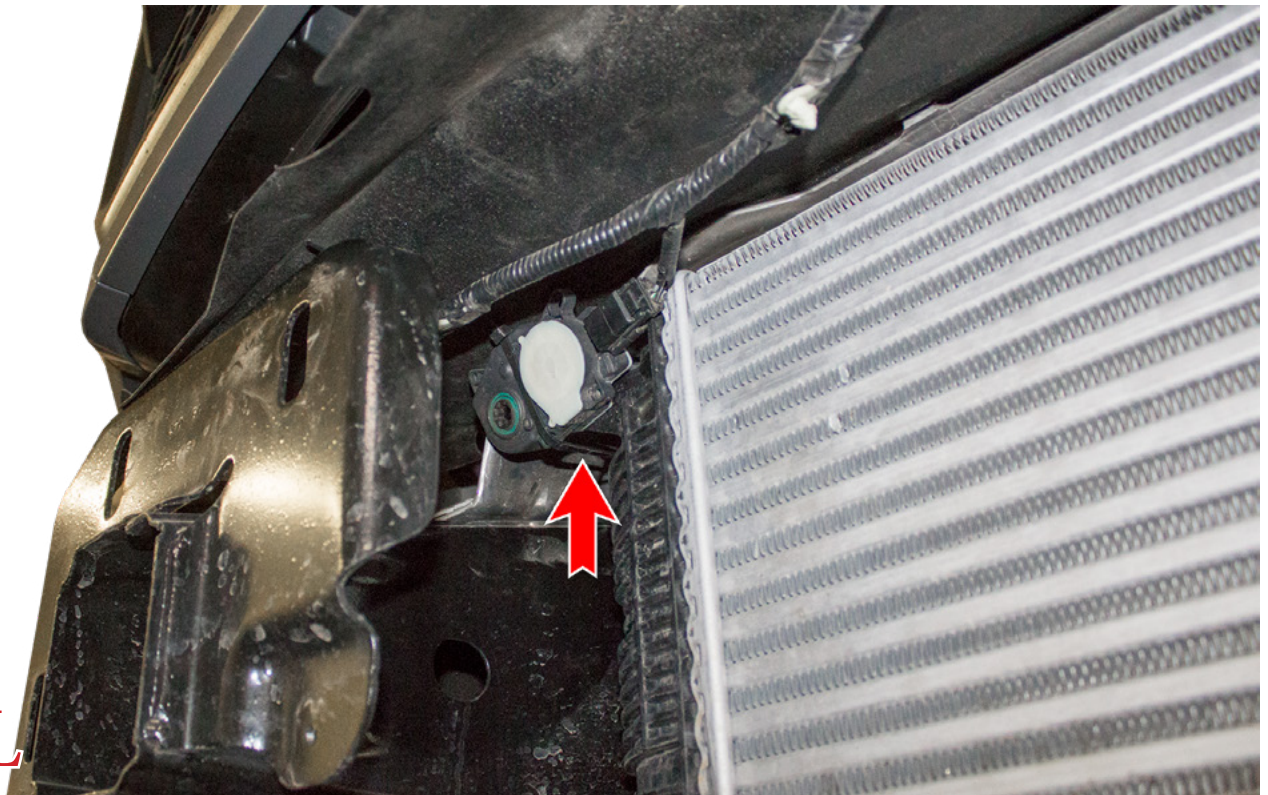


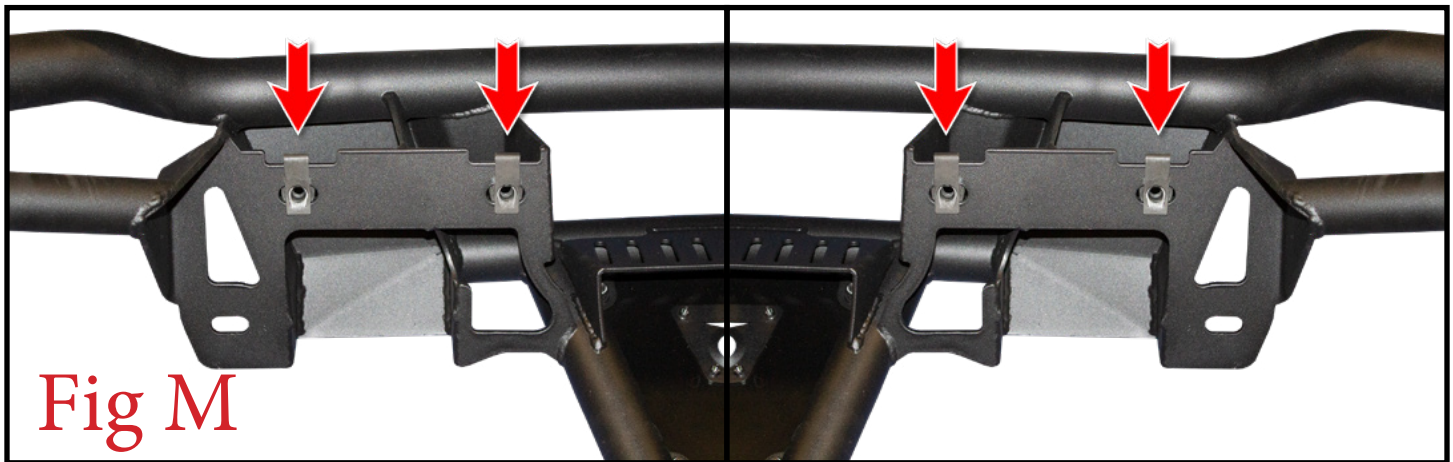
Fig L

Installation:

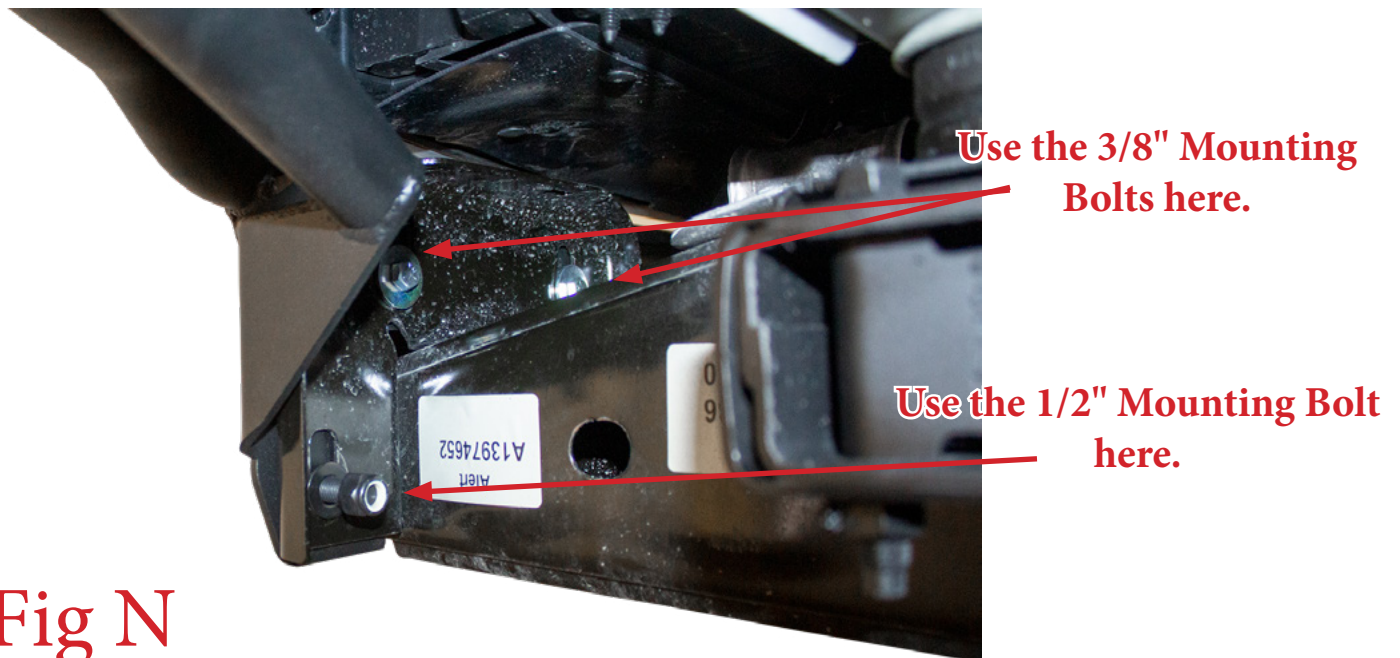
17. If you have any lights to install on your bumper, now is a good time to do so. Please follow the light manufacturer's guide for mounting/wiring information.

Use the supplied Light Mount Kit that came with the bumper to mount your lights. Installation instructions for our light mount kit can be found here: <https://www.addictivedesertdesigns.com/files/install/ADD-Universal-Light-Mount-Kit-Installation-Instructions.pdf>

18. Install the supplied U-Nuts (x4) onto your new bumper as shown in (Fig M).



19. Set the bumper in place on the vehicle. Install the supplied 3/8" Hex Head Bolts (x4) and 3/8 Fender Washers (x4) into the newly installed U-Nuts from the back side of the frame horn. Then, use the supplied Black 1/2" Button Head Bolts (x2), 1/2" Washers (x2), and 1/2" Lock Nuts (x2) into the remaining bumper mounting holes. Leave these bolts loose for now. (Fig N)



20. Align the bumper so it is straight in relation to the valance and centered left to right. Then, tighten the 3/8" mounting bolts to 25 foot pounds and the 1/2" mounting bolts to 70 foot pounds.
21. Stand back and enjoy your new ADD PRO™ Bolt-On Front Bumper.
22. Check and re-tighten, if needed, all mounting bolts after 100 miles and periodically thereafter.

