

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**
This installation requires 2 people for best results

You will need the following tools:

- | | | |
|------------------------|-----------------------------|--------------------------|
| - Ratchet | - 18mm Socket | - Phillip's Screwdriver |
| - 3/4" Socket & Wrench | - 7/32" Allen Wrench/Socket | - 9/16" Wrench or Socket |
| - Cutting Wheel | | |

Included in Kit:

- | | |
|--|---|
| 6 - Hex Head Bolts (1/2"-13 x 1 1/2") | 12 - Flat Washers (1/2") |
| 6 - Nylon Locking Nuts (1/2"-13) | 8 - Button Head Bolts (3/8"-16 x 1") <i>Top Plate Only</i> |
| 8 - Flat Washers (3/8") <i>Top Plate Only</i> | 8 - Nylon Lock Nuts (3/8"-16) <i>Top Plate Only</i> |

Removal:

1. From underneath the Jeep, unplug each fog light.
2. There is one plastic clip per side that needs to be removed. The location is shown in (Fig A). The picture was taken looking in from the wheel well.

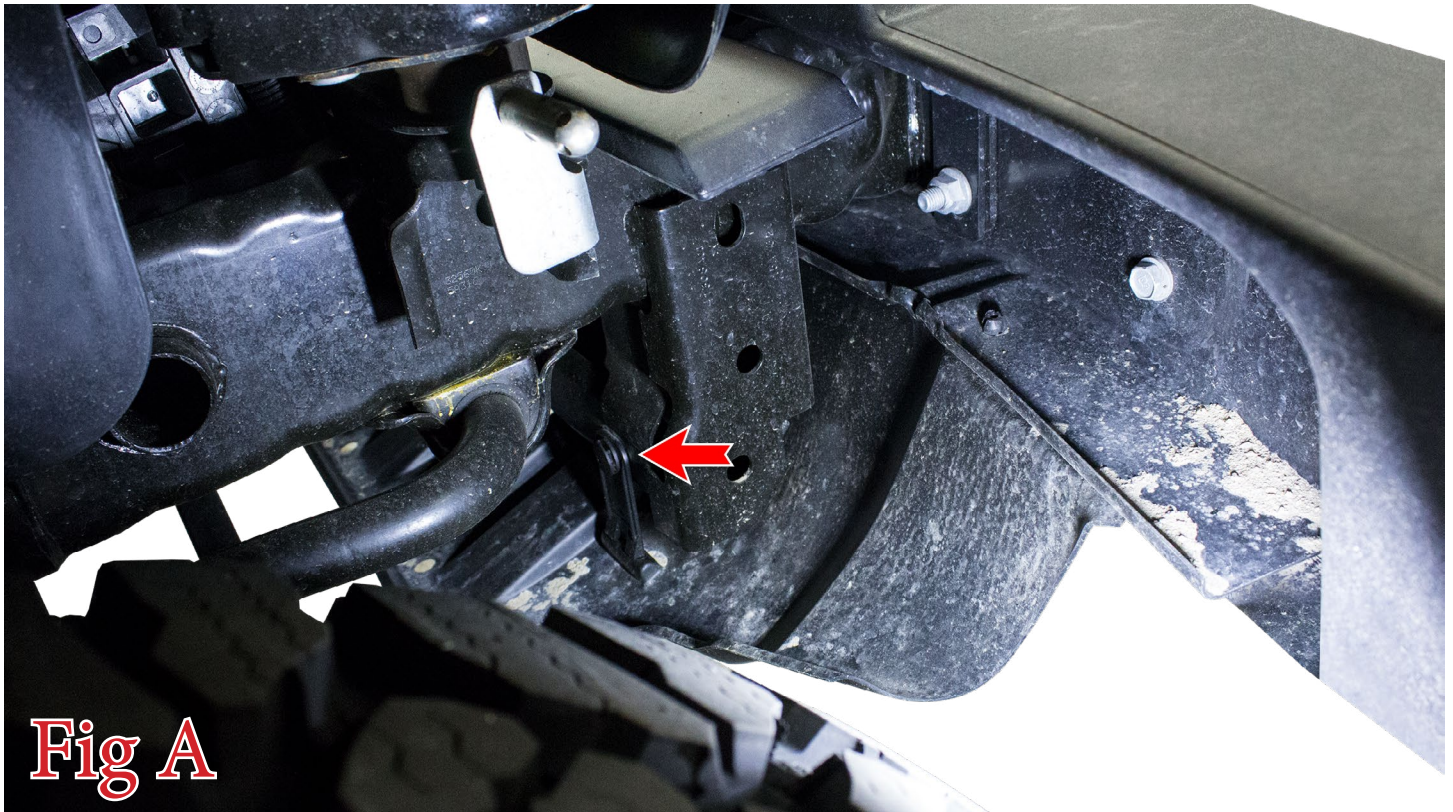
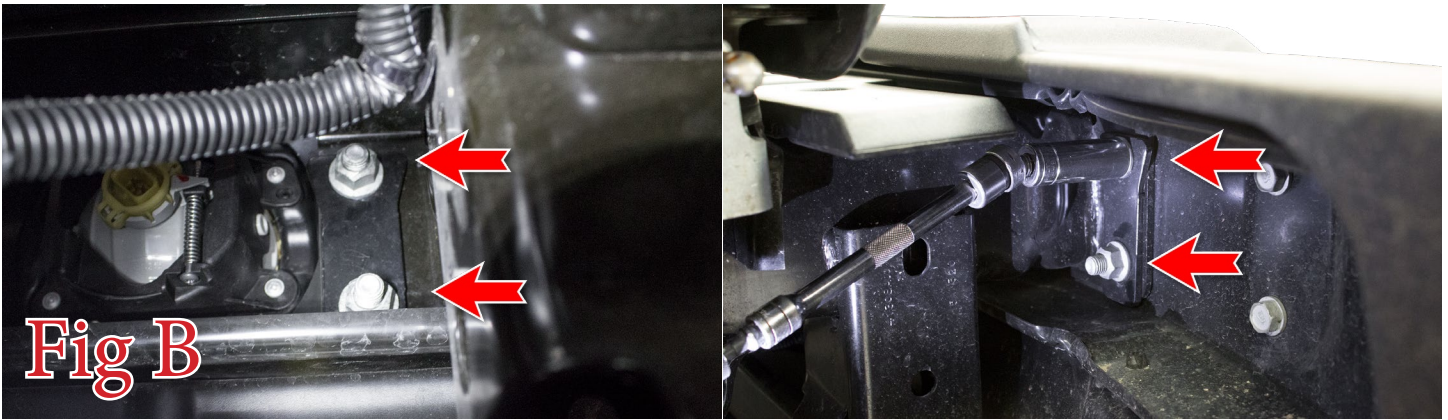
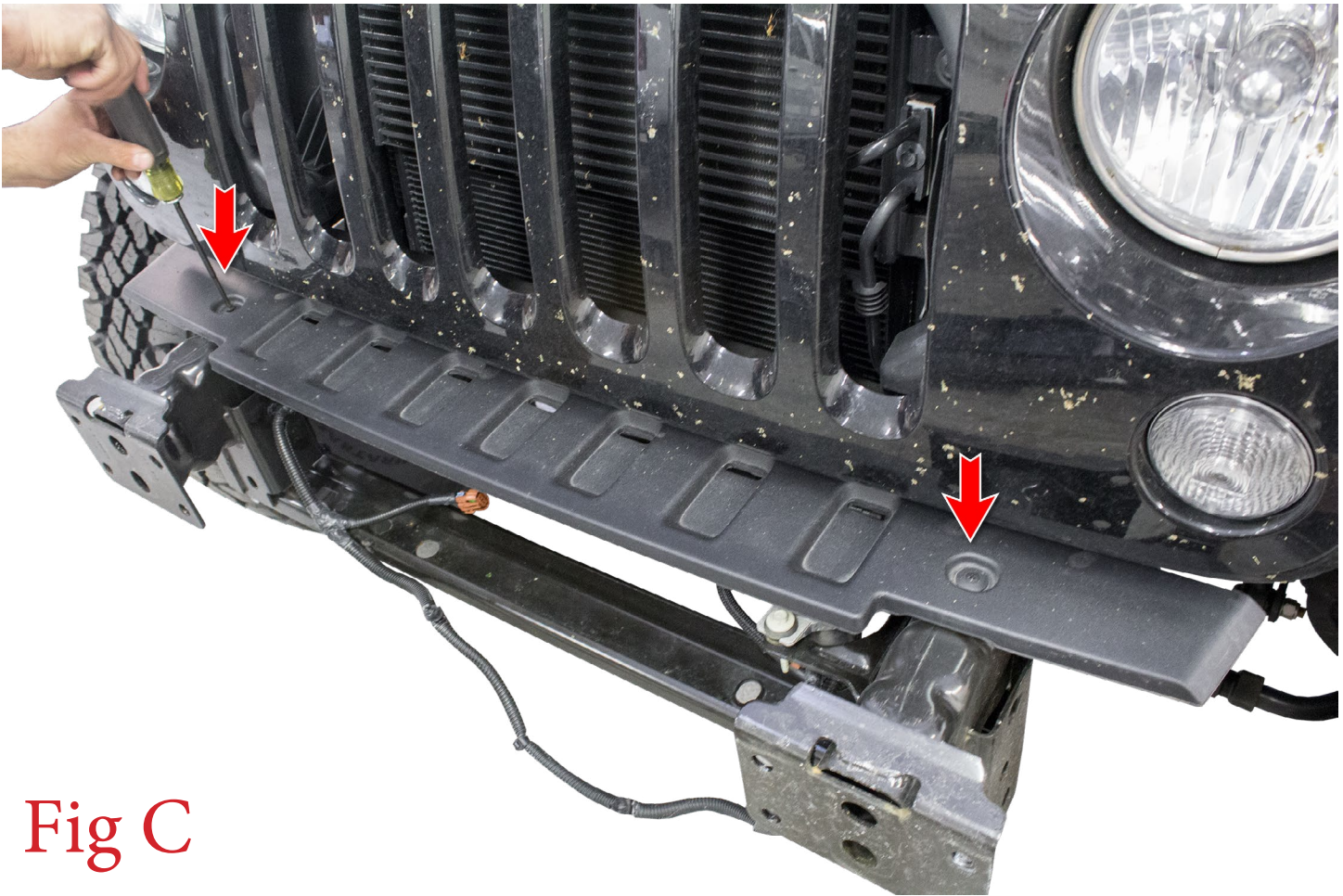


Fig A

3. From underneath the Jeep, use an 18mm Socket to remove the bolts holding on the OEM bumper. Then, remove the bumper from the vehicle. (Fig B)



4. Using a Phillip's Head Screwdriver, remove the two screws holding on the top plastic bumper shroud. Then, remove this shroud. (Fig C)



Installation:

5. If you have lights for your bumper, install those now. Follow the light manufacturer's guide for mounting/wiring information.
6. If you have a winch version of this bumper and your Jeep has a vacuum pump, relocate the vacuum pump now. Follow the vacuum pump relocation bracket manufacturer's guide for relocation information.
7. **ONLY FOLLOW THIS STEP IF YOU HAVE A WINCH BUMPER.** After the pump has been relocated, you will need to cut the bracket off flush with the vehicle's frame. **Make sure to paint over any bare metal.** (Fig D)

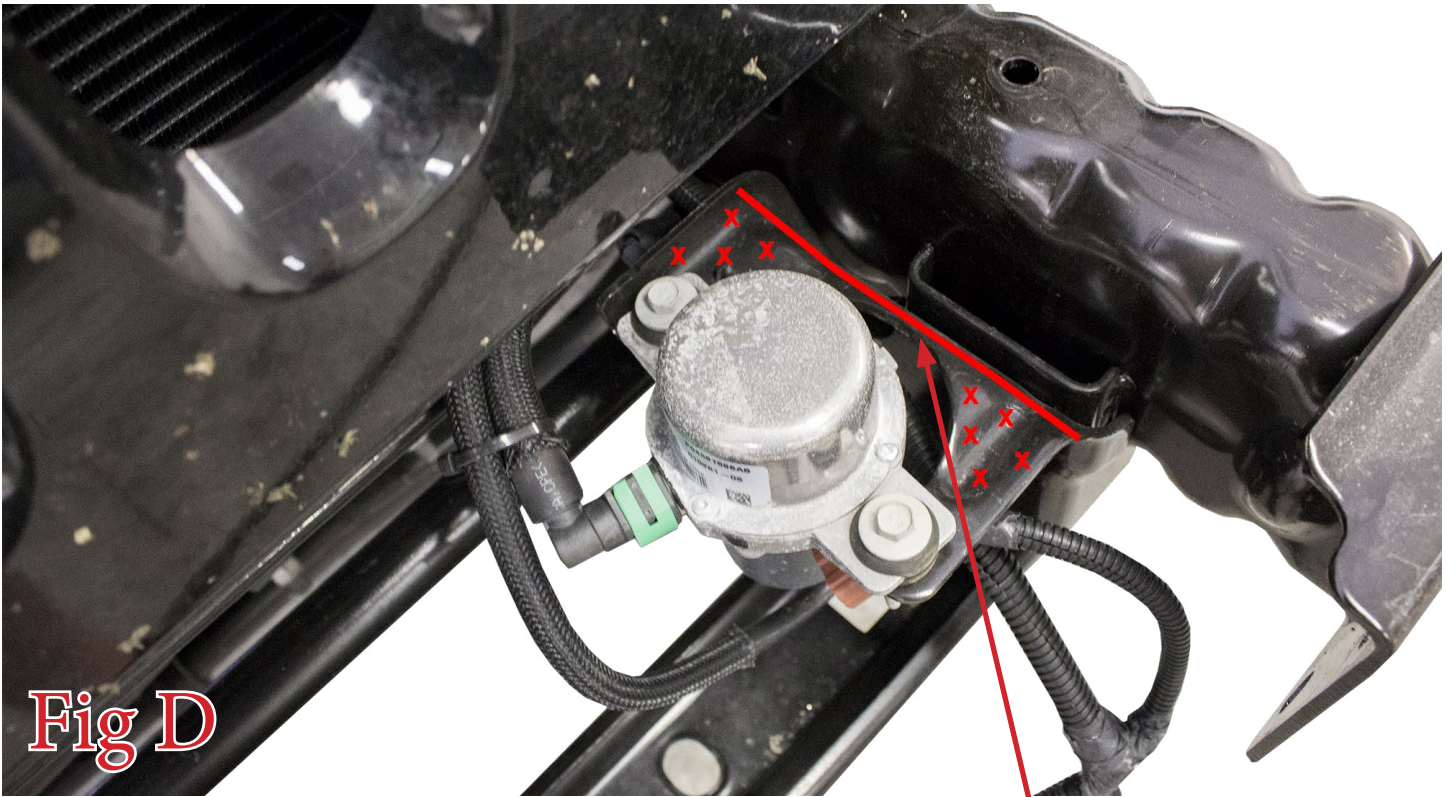


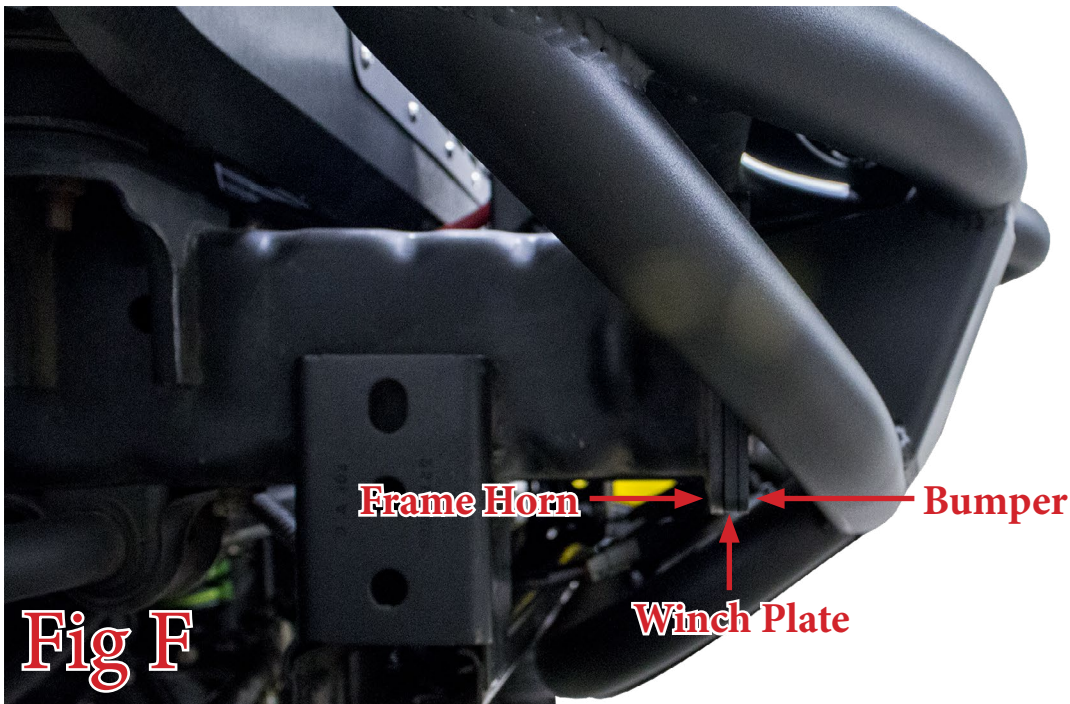
Fig D

Remove/Relocate this pump, then cut the mount off at the red line.

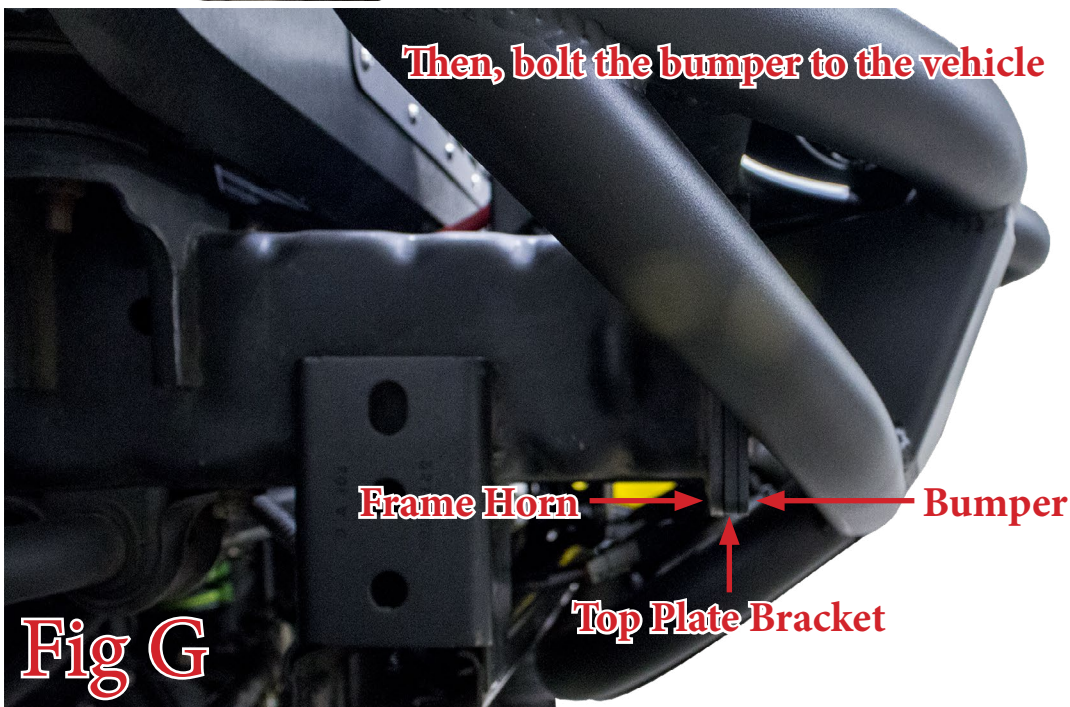
8. If you do not have a winch bumper or a top plate to install, line the mounting holes on your bumper up with the mounting holes on your vehicle's frame. Use the supplied 1/2" Bolts (x6), 1/2" Washers (x12), and 1/2" Lock Nuts (x6). Leave these bolts loose for now. (Fig E)



9. If you have the winch version of this bumper, there will be a separate winch plate. This winch plate will bolt between the frame and the bumper. Use the supplied 1/2" Bolts (x6), 1/2" Washers (x12), and 1/2" Lock Nuts (x6) to secure the bumper. Leave these bolts loose for now. (Fig F)



10. If you do not have a winch bumper, but do have the top plate option, you will have two separate brackets and a top plate that come with your bumper. First, assemble the top plate and brackets. Use the supplied 3/8" Bolts (x8), 3/8" Washers (x8), and 3/8" Lock Nuts (x8). Then, bolt the bumper to the vehicle so that the two top plate brackets sit between the bumper and the frame. Use the supplied 1/2" Bolts (x6), 1/2" Washers (x12), and 1/2" Lock Nuts (x6) to hold the bumper to the vehicle. Leave these bolts loose for now. (Fig G)



11. Line the bumper up so that it sits straight in relation to the grille and is centered left to right. Make sure the top plate (if applicable) is also centered and lined up. Then, tighten the bumper mounting bolts to 70 foot pounds. Tighten the top plate bolts (if applicable) to 30 foot pounds.
12. If you purchased a winch for your bumper, install that now. Follow the winch manufacturer's guide for mounting/wiring information.
13. Stand back and enjoy your new ADD Venom™ Front Bumper.
14. Check and re-tighten, if necessary, all mounting bolts after 100 miles and periodically thereafter.

