

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

1 Additional Hour to Wire Center 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:

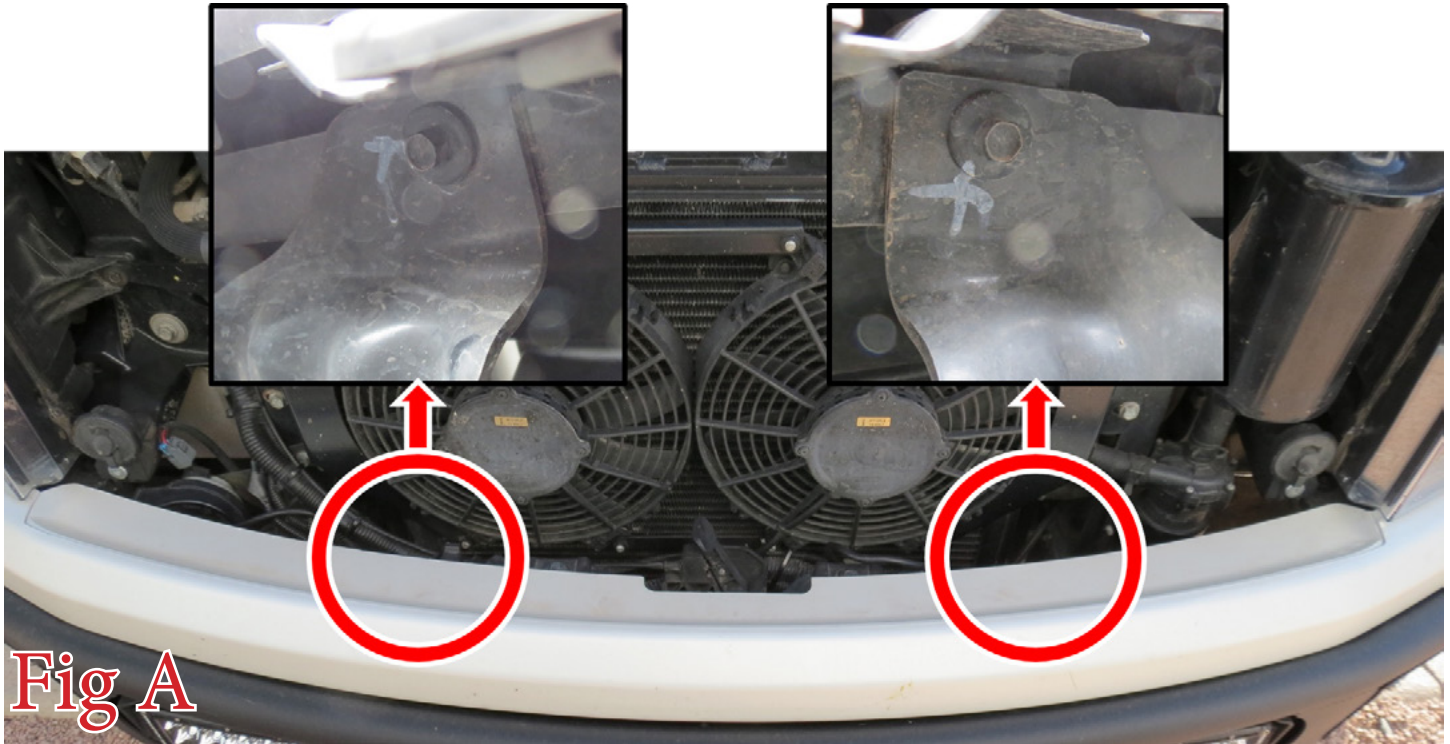
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|-----------------|------------------------|---------------------|
| - Ratchet | - 10mm Socket | - 15mm Socket |
| - 1 1/8" Socket | - 1 1/16" Wrench | - Reciprocating Saw |
| - Angle Grinder | - 3/4" Socket & Wrench | - Black Paint |

Included in Kit:

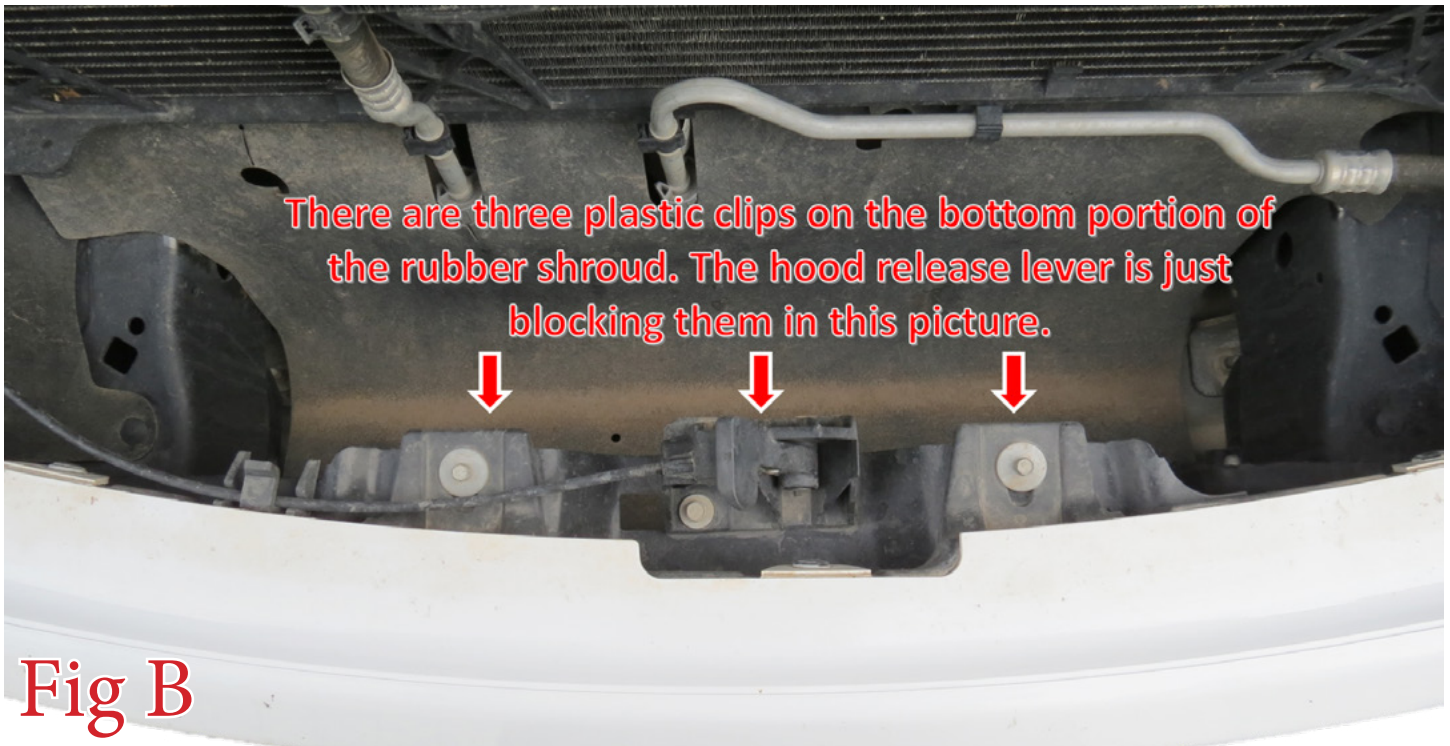
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| 8 - Hex Head Bolts (1/2-13 x 1") | 16 - Grade 8 Washers (1/2") |
| 8 - Nylon Lock Jam Nuts (1/2"-13) | 2 - Hex Head Bolts (3/4-10 x 5 1/2") |
| 4 - Flat Washers (3/4") | 2 - Nylon Lock Nuts (3/4"-10) |
| 4 - Specialty Washers | 2 - Bumper Mounting Brackets |

Removal:

1. With the hood popped, remove the two 10mm bolts that are on the back side of the valance. The locations of the bolts are circled in (Fig A). The bolt heads face the rear of the truck.



2. From the top, remove the three plastic clips holding the bottom portion of the rubber shroud to the front bumper. (Fig B)



3. From the bottom, remove the 15mm Bolts (x6) that hold on the front skid plate, then remove this plate. (Fig C) Save two of these bolts for reuse. Also remove the skid plate mounting bracket once the plate is removed.



4. Using a 21mm Socket, remove the two nuts per side that hold the OEM bumper to the vehicle. Then, remove the bumper from the vehicle. (Fig D)



5. Remove the 15mm bolts (x2), that hold on each tow hook. Then, remove the hooks. (Fig E)

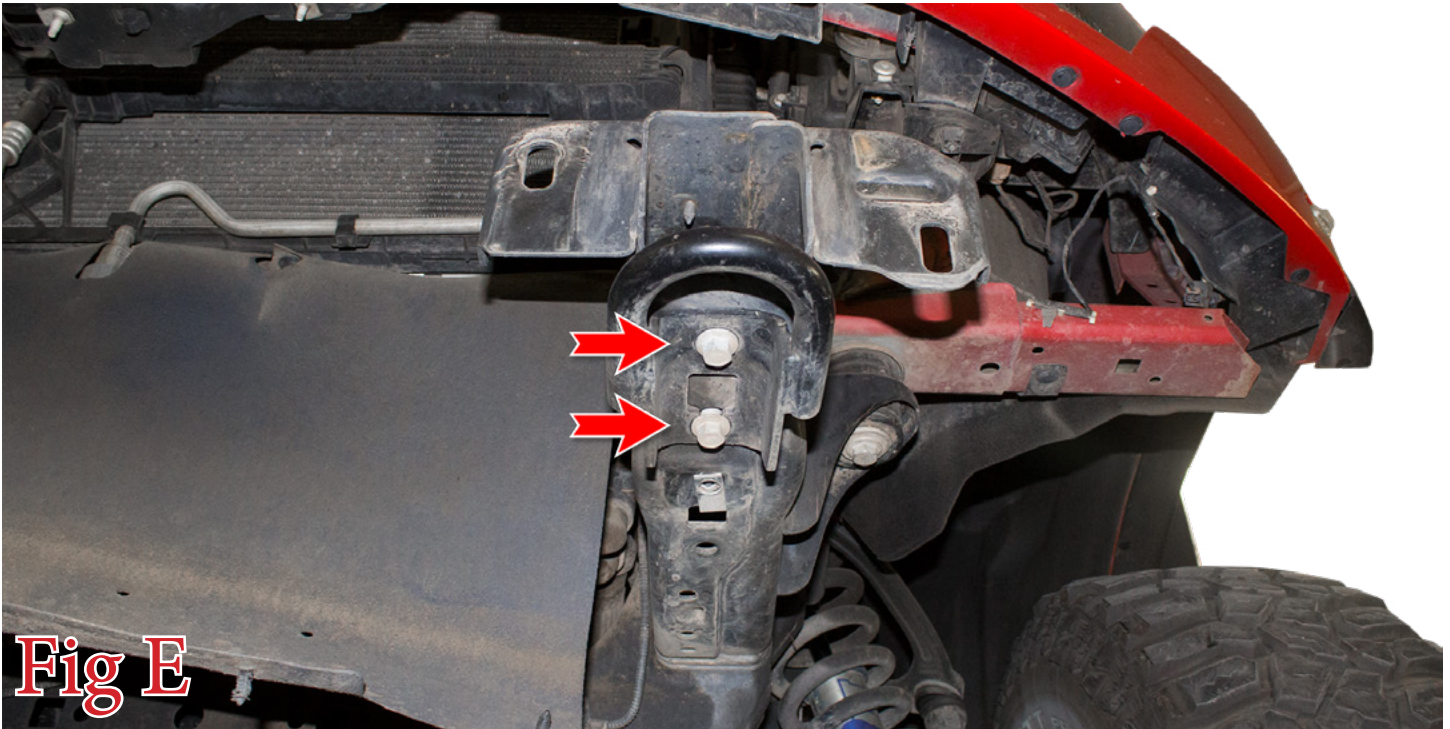


Fig E

6. Remove the series of clips that hold the rubber shroud to the bottom of the radiator. Then, remove this shroud. (Fig F)

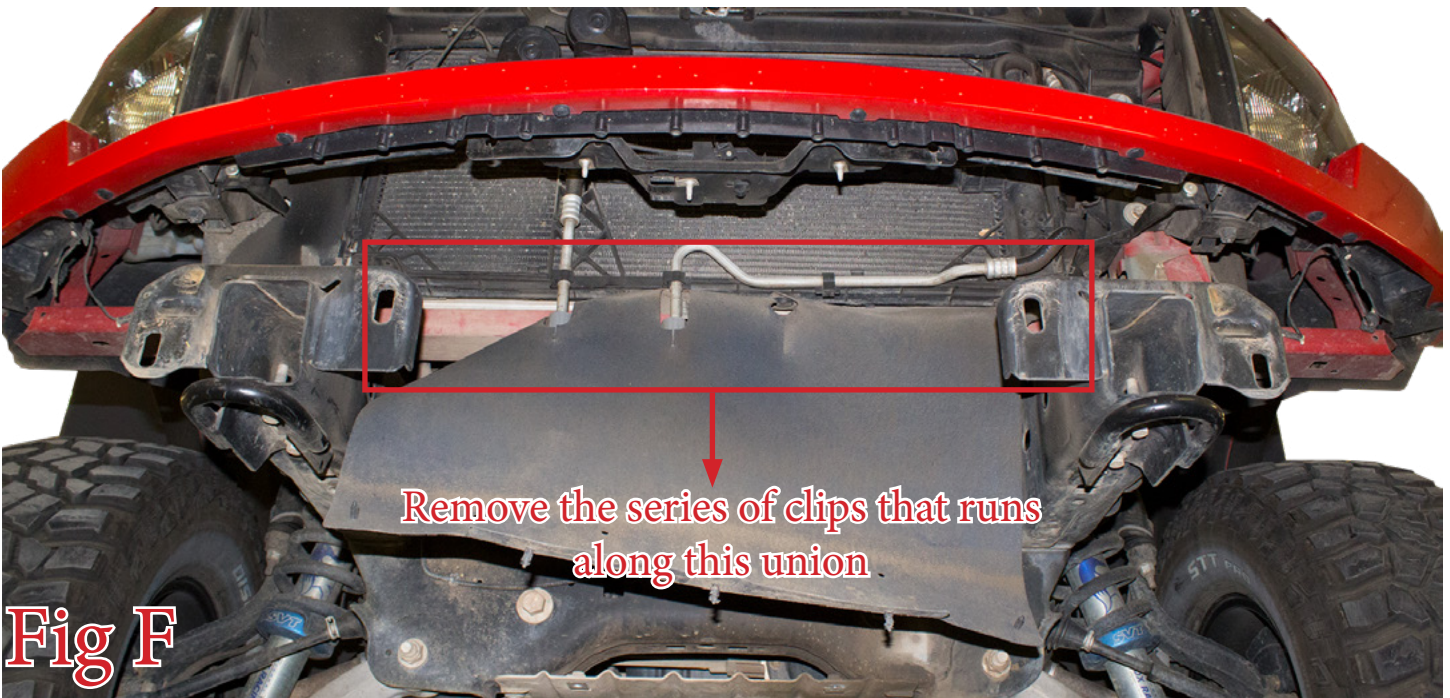
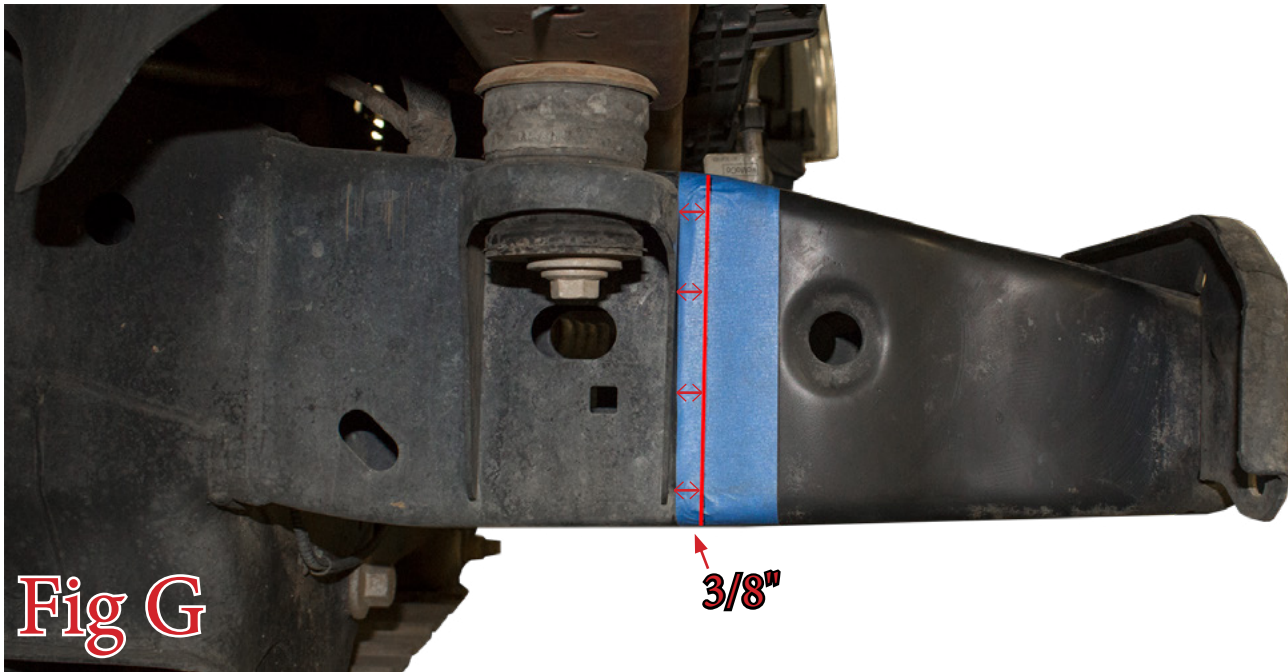


Fig F

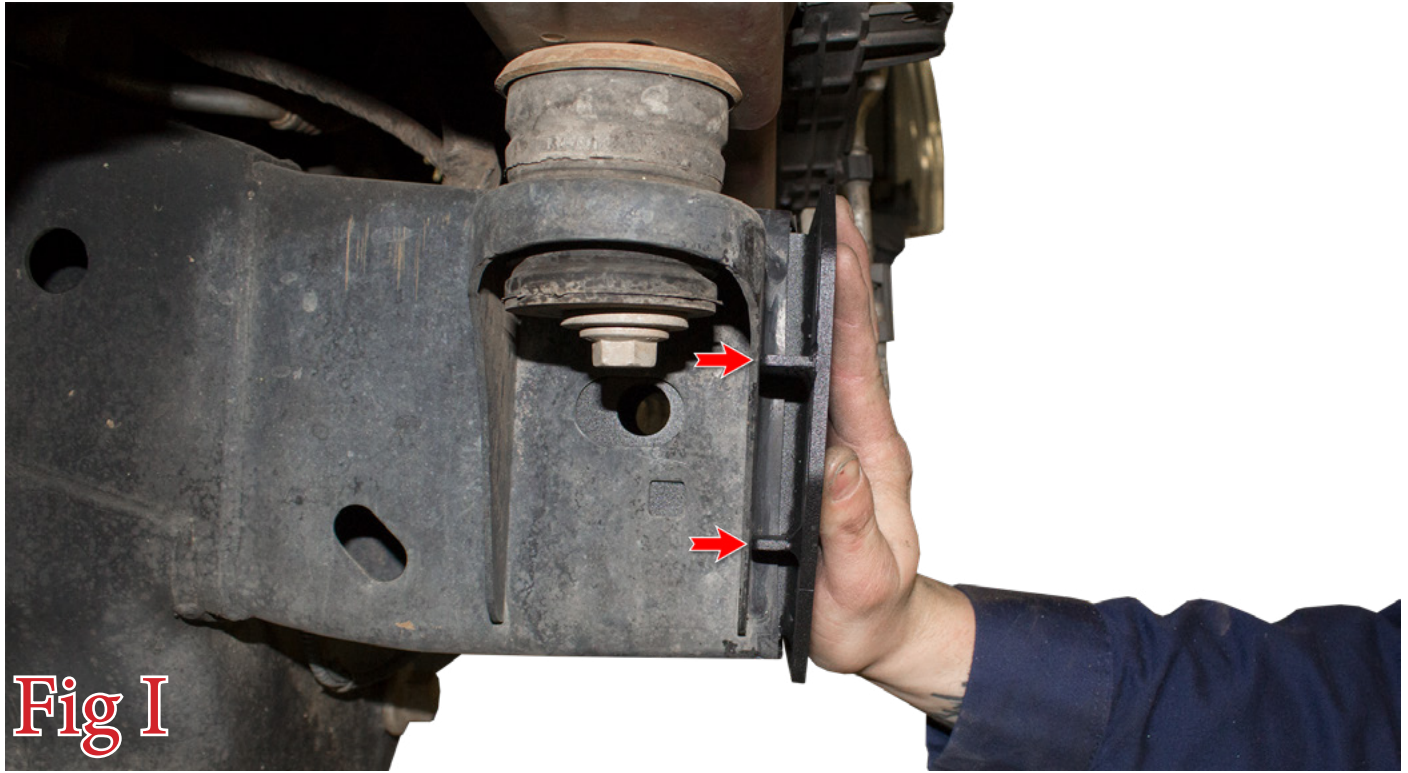
7. Find the forward most body mount. Measure 3/8" forward from that body mount and make a straight vertical line. Do this on both sides of the truck. (Fig G)



8. On the inner wall of the frame rail, measure 9 1/8" back from the frame horn and make a straight vertical line. Do this on both sides of the truck. (Fig H)



9. Make sure the two tabs on the bumper mounting brackets can sit flush against the truck's body mount. If they do not sit flush against that mount, you will need to grind more metal off the frame. Once your cuts are final, make sure to paint over any exposed metal. (Fig I)

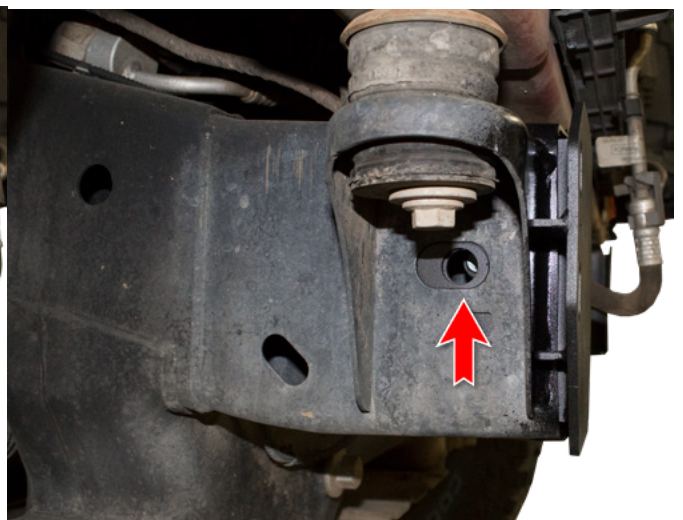
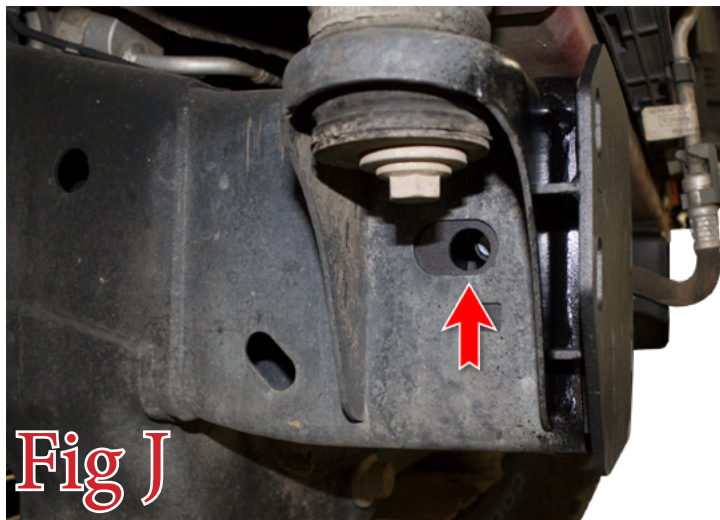


Installation:

10. Set the bumper mounting brackets in place. Then, set the supplied specialty washers in place in the oblong hole on the frame. The short end of the specialty washer should be facing towards the front of the truck. (Fig J)

Without Washer

With Washer



11. Secure the bumper mounting brackets by installing the supplied 3/4" Bolts (x2), 3/4" Washers (x4), and 3/4" Lock Nuts (x2). (Fig K) Torque these bolts to 180 foot pounds.

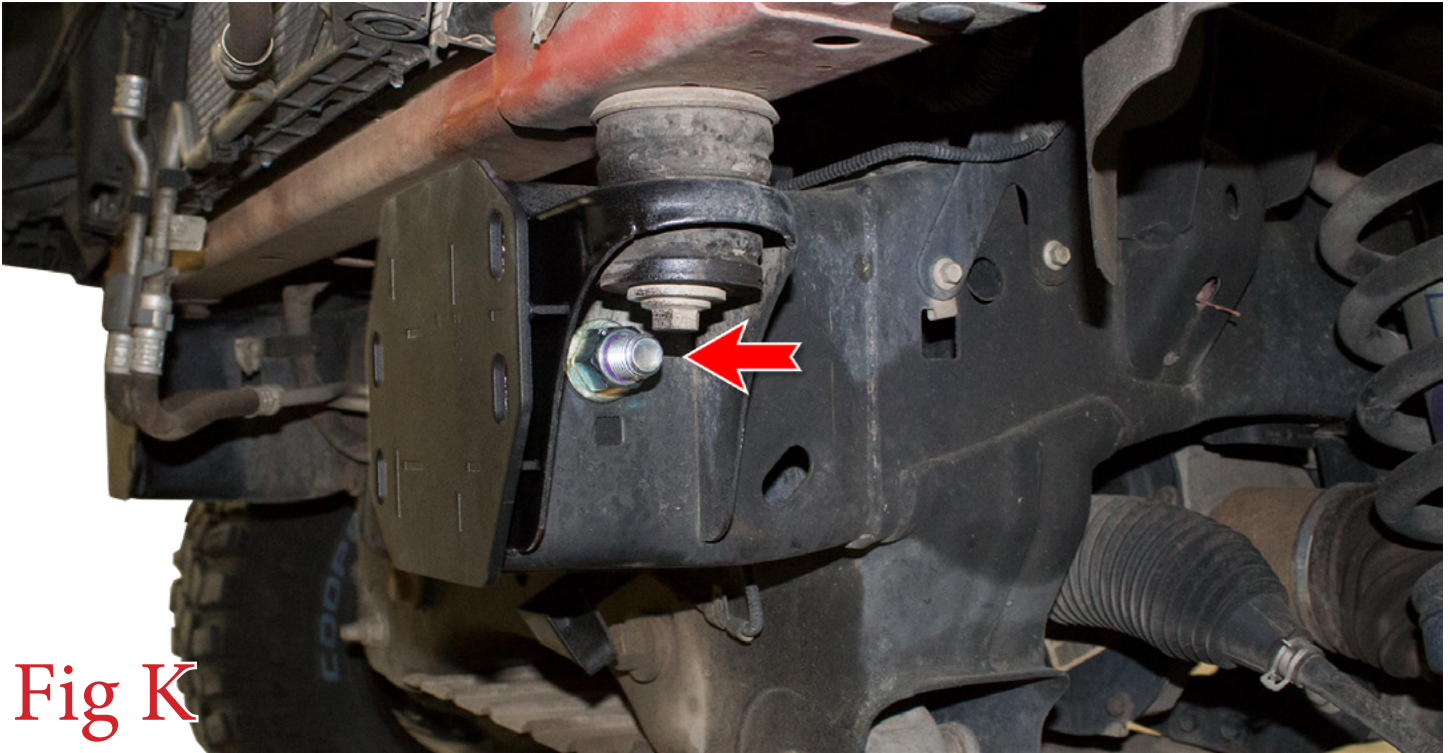


Fig K

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

13. Set your new bumper in place. Secure it with the supplied 1/2" Bolts (x8), 1/2" Washers (x16), and 1/2" Jam Nuts (x8). Leave these finger tight for now. (Fig L)

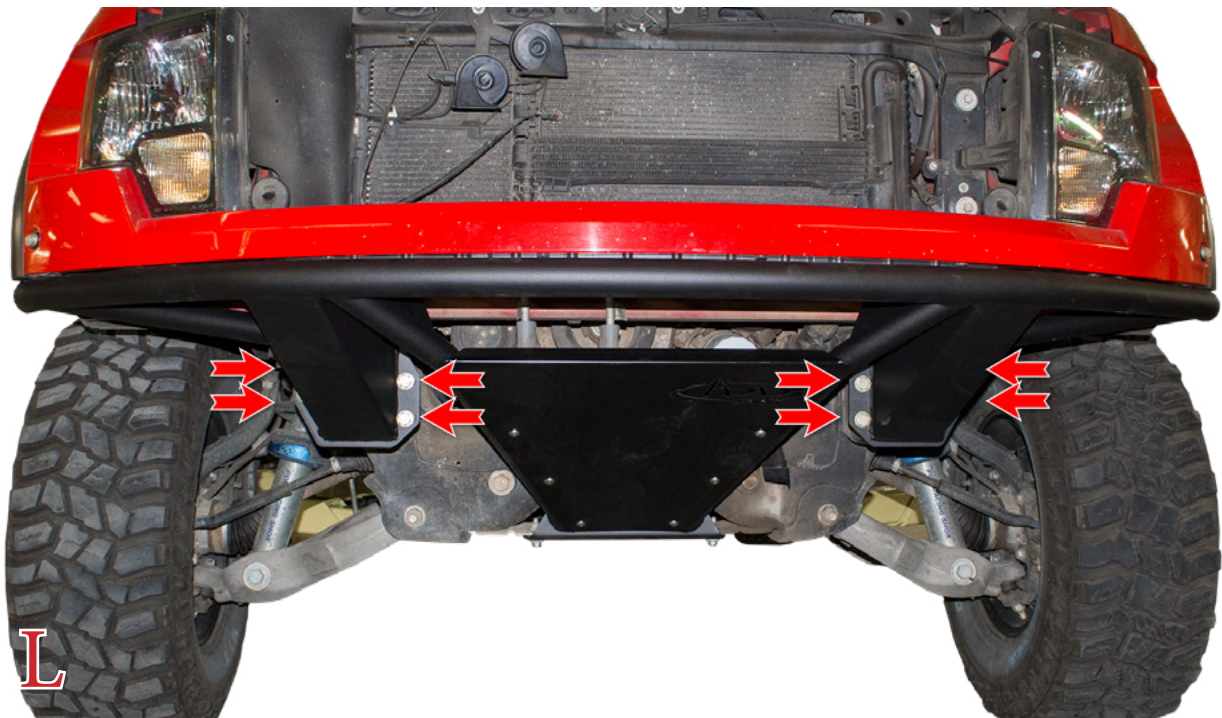
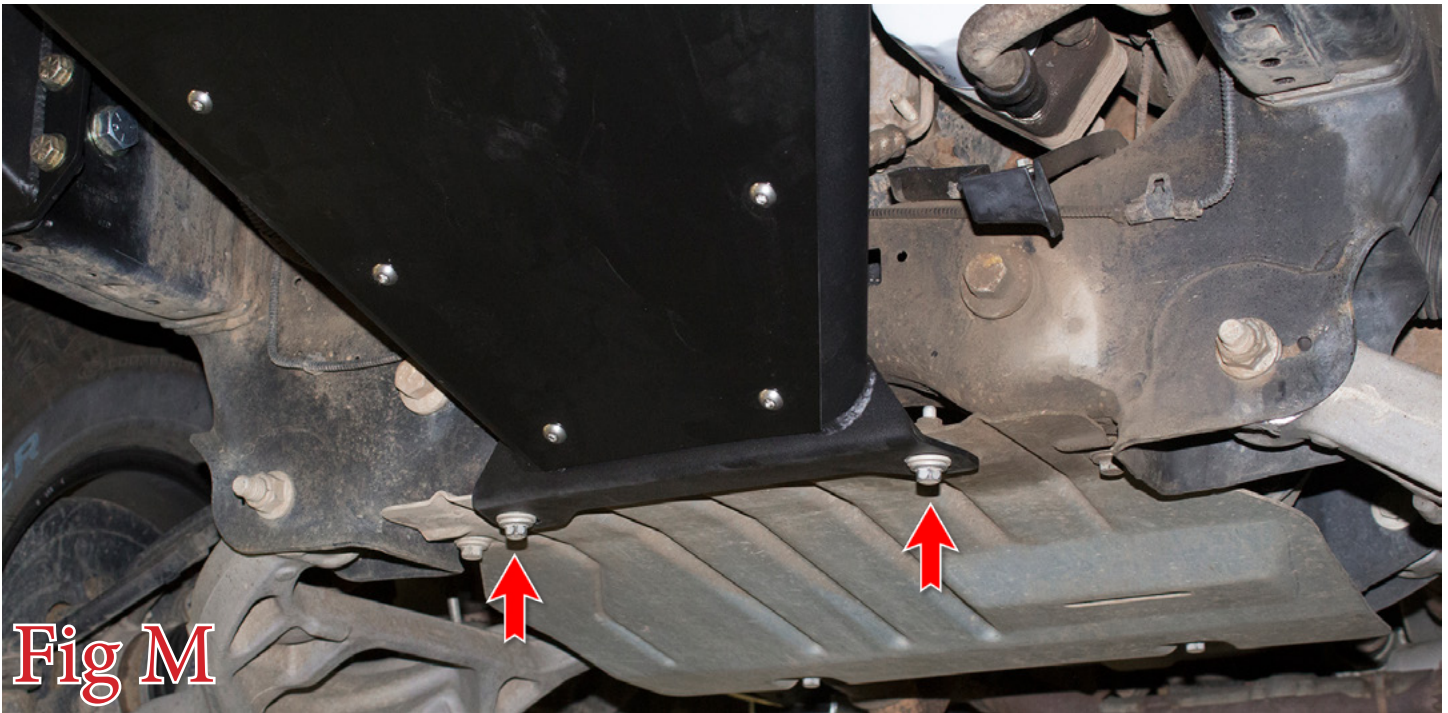


Fig L

14. Install two of the OEM Skid Plate Bolts (set aside in Step 3) in your new bumper's skid plate mounting holes. Leave these loose for now. (Fig M)



- 15. Align your bumper so it is centered left to right and also straight in relation to the truck's valance. Then, tighten the upper mounting bolts to 70 foot pounds. Tighten the skid plate bolts to the OEM torque spec.
- 16. Stand back and enjoy your new ADD Pro Front Bumper.
- 17. Check and re-tighten, if needed, all mounting bolts after 100 miles and periodically thereafter.

