

## 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 Lights**

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

### You will need the following tools:

- Ratchet
- 9/16" Socket or Wrench
- Angle Grinder
- 13/16" Socket
- 3/4" Wrench
- 13mm Socket
- 7/32" Allen Wrench or Allen Socket
- Black Paint
- 5/16" Allen Wrench or Allen Socket

### Included in Kit:

- 4 - Hex Head Bolts (3/8"-16 x 1")
- 4 - Nylon Lock Nuts (3/8"-16)
- 2 - Black Washers (1/2")
- 8 - Flat Washers (3/8")
- 2 - Black Button Head Bolts (1/2"-13 x 1 1/2")
- 2 - Black Nylon Lock Nuts (1/2"-13)

## Removal:

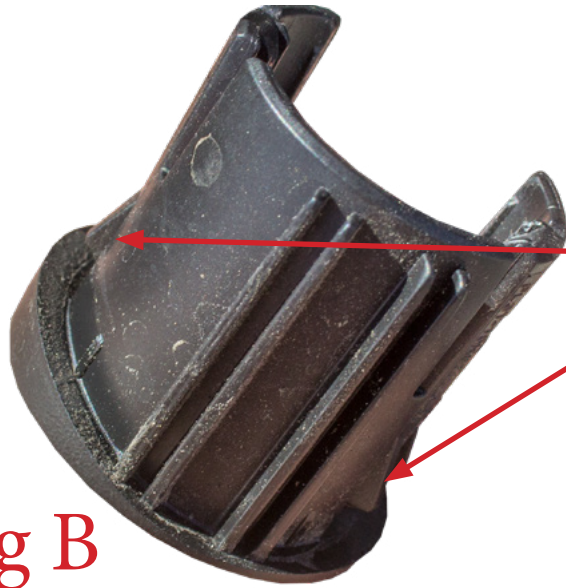
1. Remove your license plate.
2. Twist your license plate light sockets free from the license plate light lenses. Then, remove the lenses from your bumper.
3. Unplug the connector on the back side of the trailer plug. Then, remove the trailer plug from the OEM bumper. Do this by pressing in the two tabs on the back side of the plug, then pushing the plug out the front of the bumper.
4. Remove the spare tire access lock by turning the key to the unlocked position and pulling the assembly outwards.
5. Remove your parking sensors from their outer mounting rings. Do this by spreading the two tabs on the back side of the rings. Then, push the sensors out the back side of the rings. Make sure to keep track of where each sensor came from so they can be installed in the same position on your new bumper. (Fig A)



**Fig A**



6. Remove the sensor mounting rings from your bumper. Do this by pressing in the two tabs on the back side of the mounting ring, then pushing these rings out the front side of the bumper. Keep track of how these came off your bumper so they can go on your new bumper in the same position and order. (Fig B)



**Push these two tabs in to free the mounting ring**

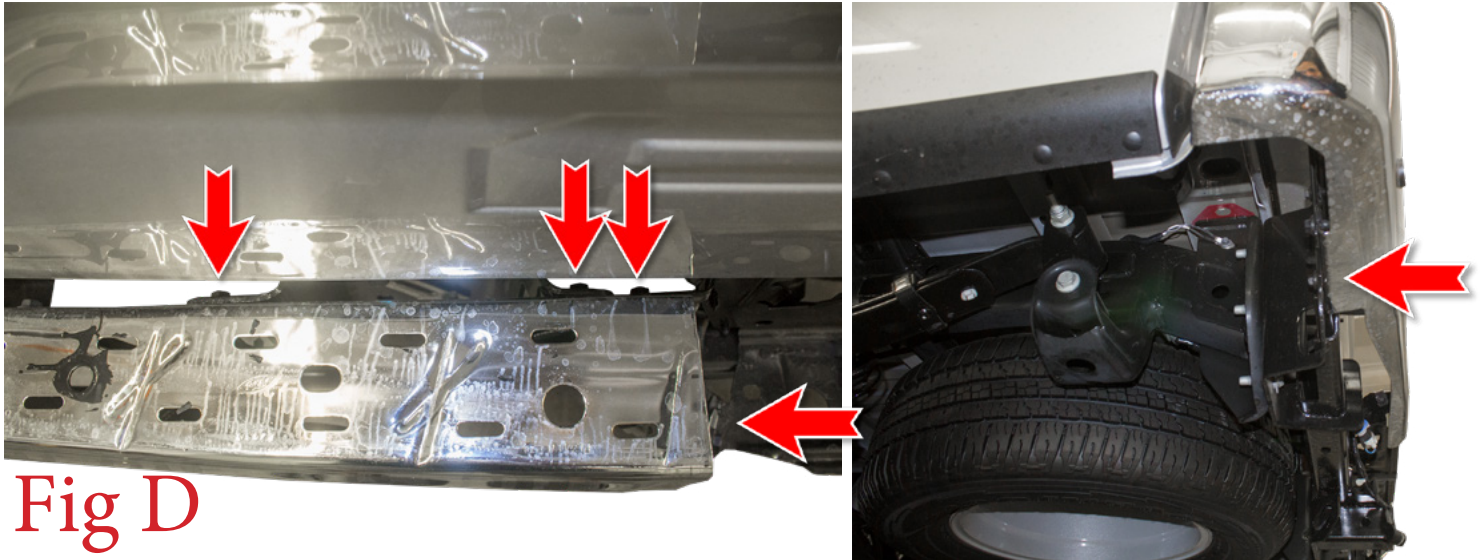
**Fig B**

7. Pull the center plastic piece off the OEM bumper. There are no tools required for this step, it simply pulls off by hand. (Fig C)



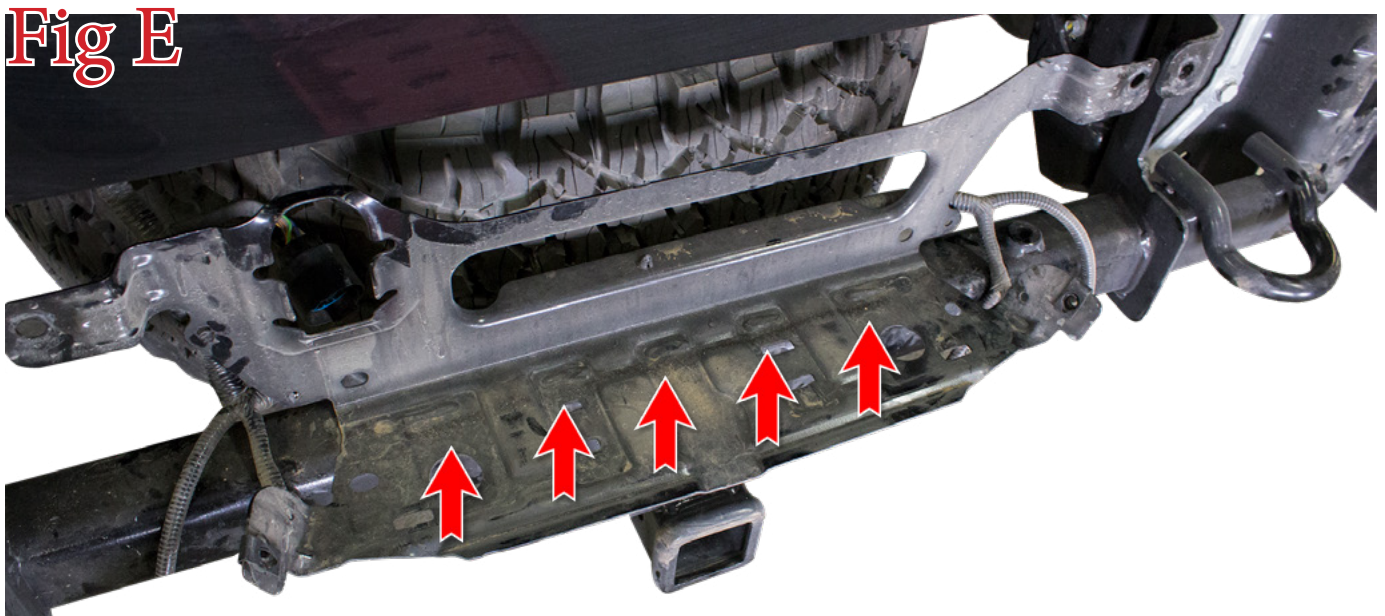
**Fig C**

8. Using a 13mm Socket, remove the bumper side pod mounting bolts (5 per side). Then, remove the bumper side pods. (Fig D)



**Fig D**

9. Remove the license plate structure from the rear hitch. Do this by grinding off the five welds shown in (Fig E). Then, make sure to paint over any bare metal.



**Fig E**



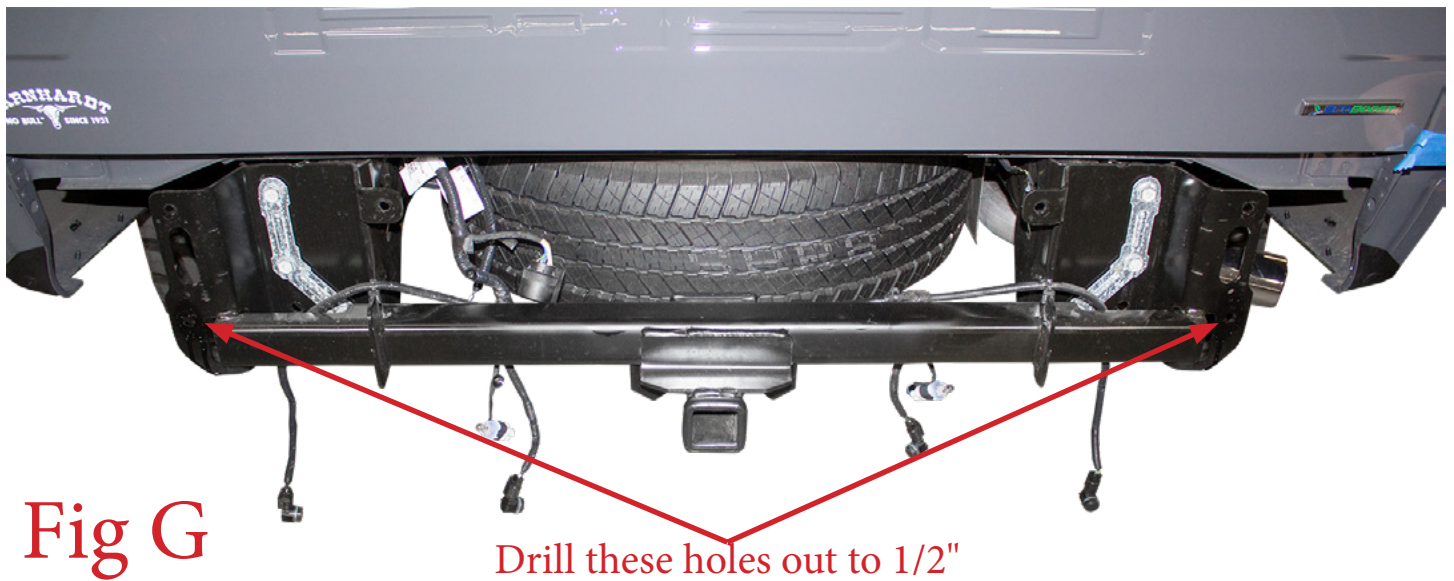
**This is how your frame should look when you're done**

10. Use a 13/16" Socket to loosen the hitch mounting bolts (3 per side). Do not remove them, only loosen them enough for the hitch to move freely. (Fig F)



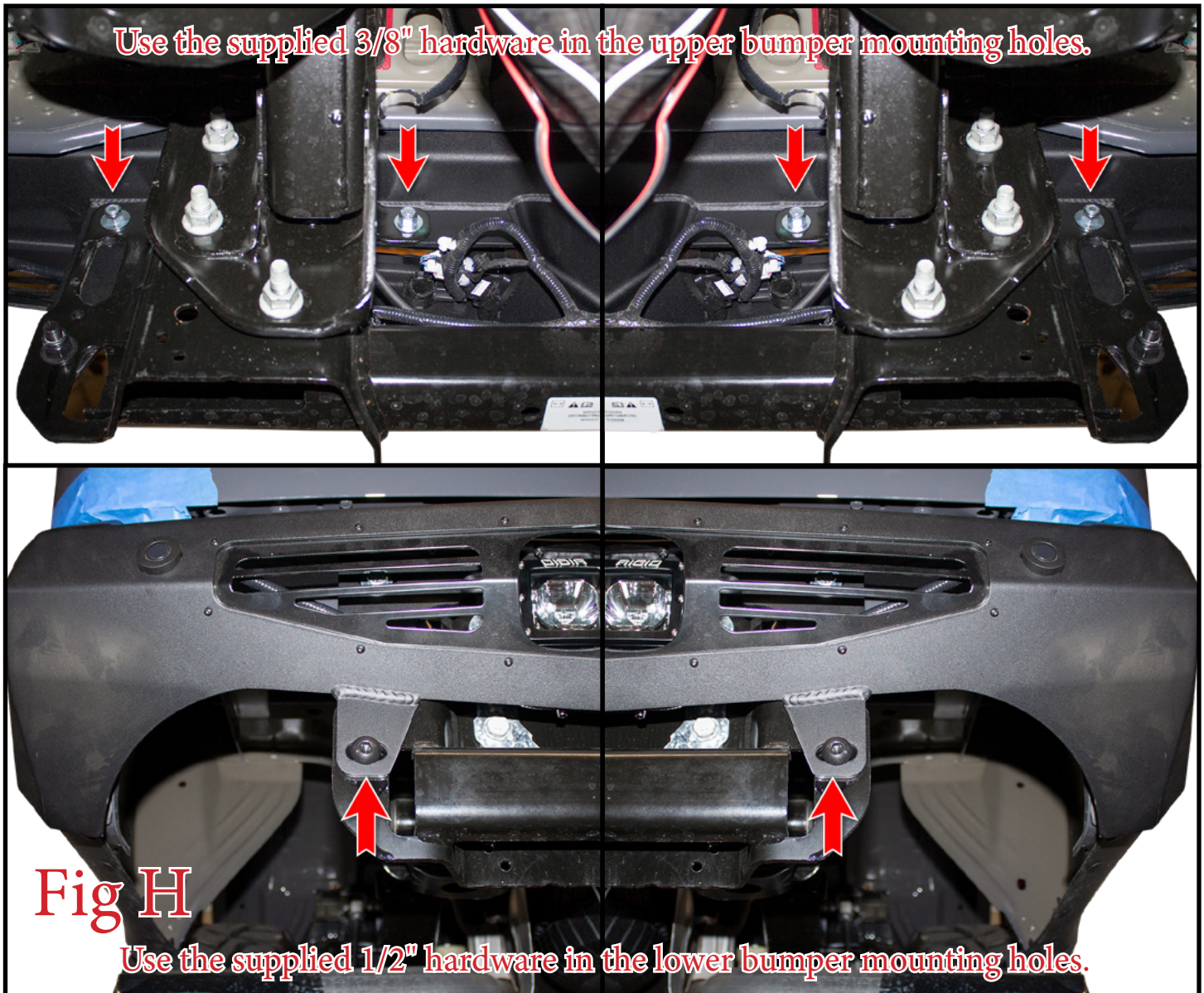
11. Pull the hitch down as low as it can go, then re-tighten the bolts from Step 10.

12. Drill the lower bumper mounting holes on the vehicle out to 1/2". (Fig G)

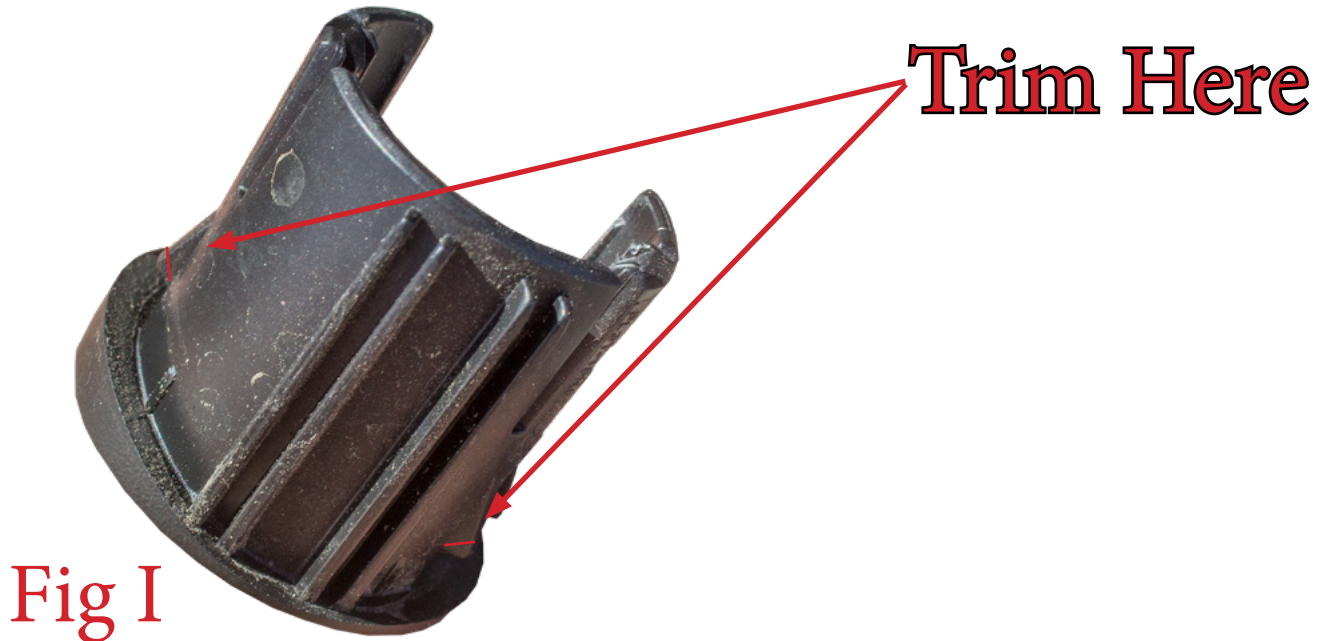


### Installation:

13. If you have any lights to install on your bumper, do so now. Please follow the light manufacturer's guide for mounting/wiring information.
14. Set the bumper in place on the vehicle. Then, use the supplied 3/8" Bolts (x4), 3/8" Washers (x8), and 3/8" Lock Nuts (x4) in the upper mounting holes. Use the supplied 1/2" Button Head Bolts (x2), 1/2" Washers (x2), and 1/2" Lock Nuts (x2) in the lower mounting holes. (Fig H)



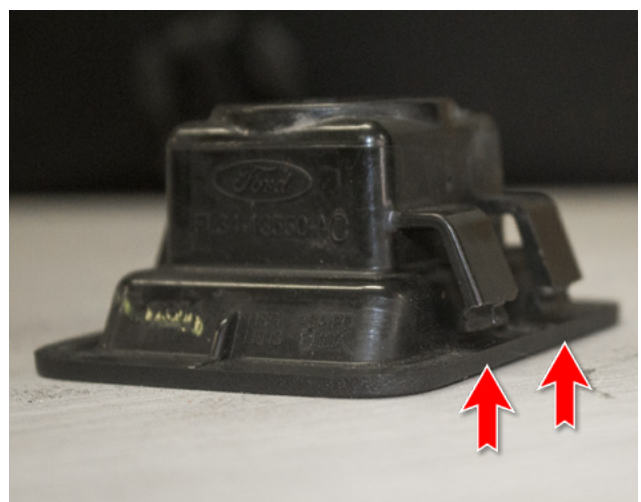
15. Press the parking sensor mounting rings into their precut holes in the bumper. If the mounting rings do not click into place, you may have to trim the tabs on the back side of the rings. Make sure to mount these rings in the same order and position they were in on your OEM bumper. (Fig I)



16. Press the parking sensors into their mounting rings from the back side. Make sure they are in the same order as they were on your OEM bumper.

17. Press the trailer plug into its precut hole on the new bumper. Then, reinstall the connector on the back side.

18. Install the license plate light lenses by pressing them into their precut holes on the bumper. If your lenses do not click into place, you will have to trim the tabs on the back side of the lens as shown in (Fig J).



19. Twist your license plate light sockets into the license plate light lenses.

20. Install your spare tire access lock onto your new bumper by reversing Step 4.

21. Stand back and enjoy your new ADD Bomber™ Rear Bumper.

22. Check and re-tighten, if needed, all mounting bolts after 100 miles and periodically thereafter.

