

## 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:

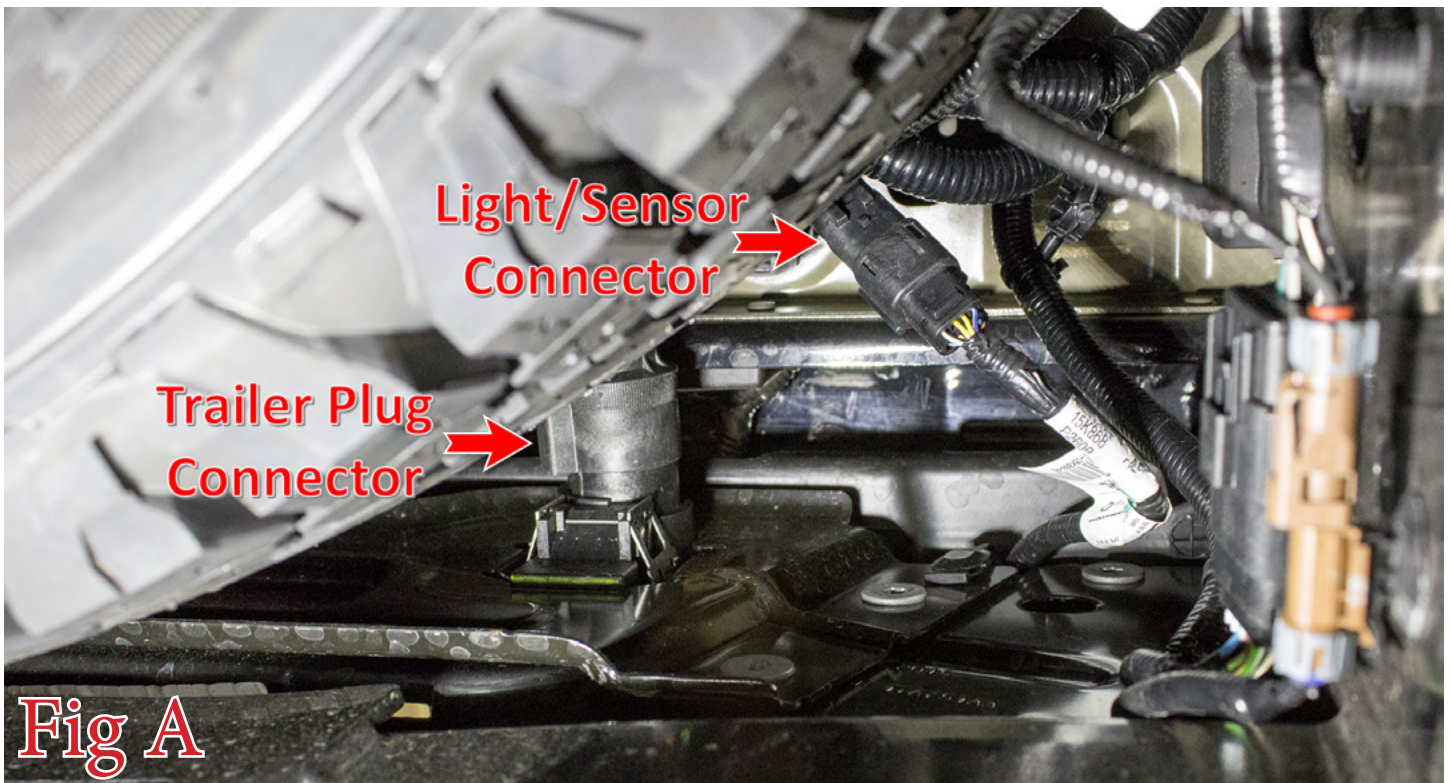
- Ratchet
- 3/4" Socket & Wrench
- 13mm Socket
- T30 Torx Socket
- 21mm Socket

## Included in Kit:

- 4 - Hex Head Bolts (1/2-13 x 1 1/2")
- 4 - Nylon Lock Nuts (1/2"-13)
- 4 - Sensor Plug & Grommet (for non-sensor trucks)
- 8 - Flat Washers (1/2")
- 2 - Bumper Mounting Brackets

## Removal:

1. Unplug the connector on the back side of the trailer plug and the parking sensor/license plate light connector. The parking sensor/license plate light connect sits right next to the trailer plug connector and is accessible from underneath the truck. (Fig A)



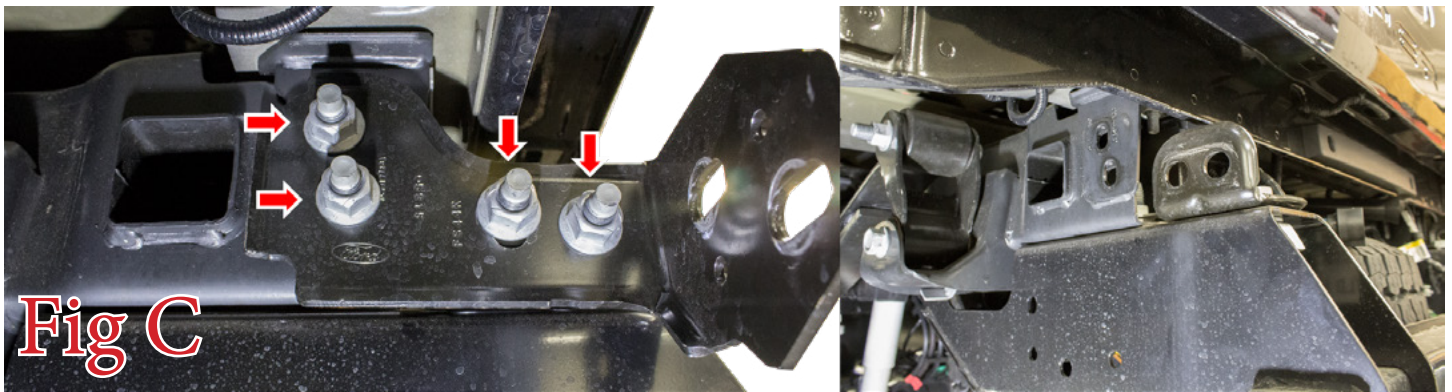
**Fig A**

2. There are two outer bumper mounting bolts per side. Use a 21mm Socket to remove these bolts. Then, remove the OEM bumper. (Fig B)



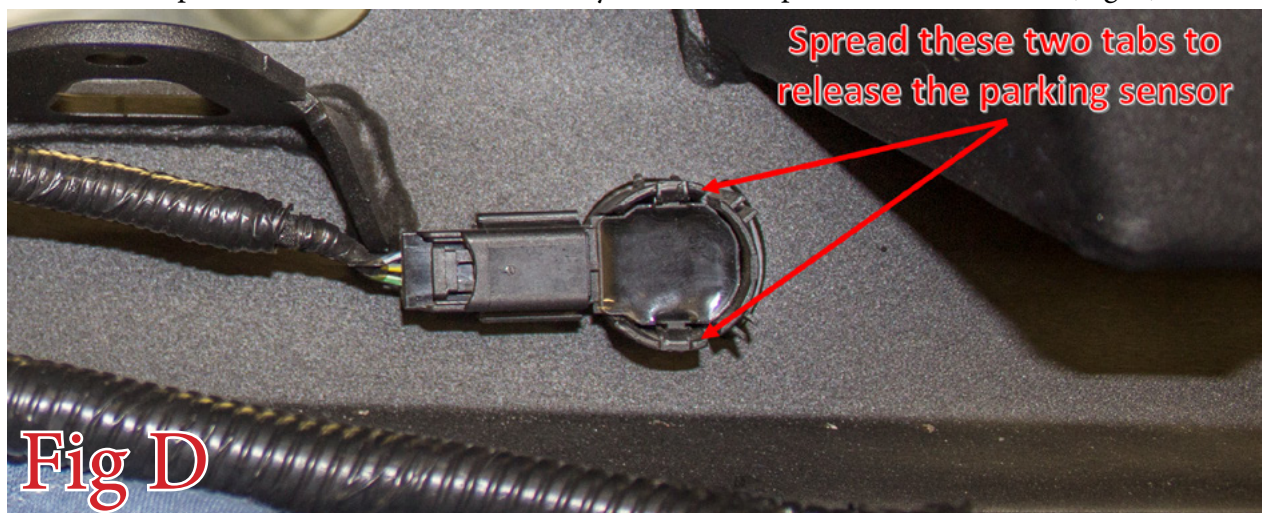
**Fig B**

3. Remove the OEM Bumper Mounting Brackets. Use a 21mm Socket to remove the four mounting bolts (per side). Then, remove the brackets. (Fig C)



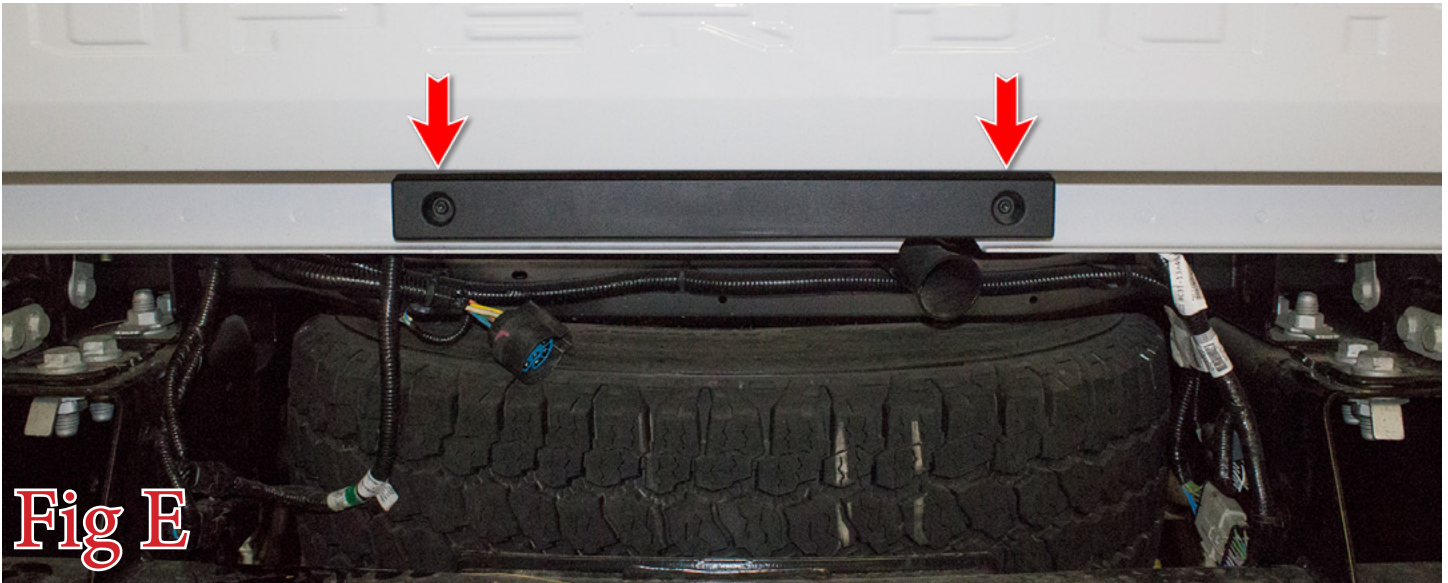
**Fig C**

4. Remove the parking sensors from their outer mounting rings. Do this by spreading the two tabs on the back side of the outer mounting ring. Then, push the sensor out the back side of the mounting ring. Leave the parking sensors plugged into the rear bumper wiring harness. Make sure to keep track of where each sensor was mounted on the OEM bumper. You have to mount them on your new bumper in the same order. (Fig D)



**Fig D**

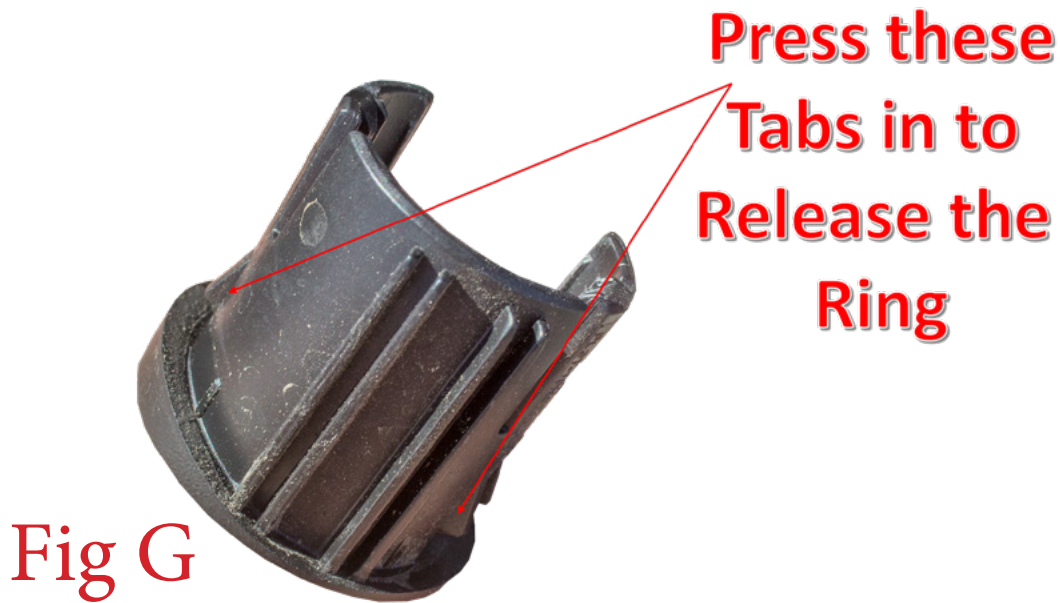
5. Use a T30 Torx Socket to remove the plastic trim piece directly under the tailgate. (Fig E)



6. Remove the metal bracket on the top side of the trailer hitch. Do this by using a 13mm to remove both mounting bolts. (Fig F)



7. Remove the parking sensor mounting rings from the OEM Bumper. Do this by pressing in the tabs shown in (Fig G) and pushing the sensor out the front side of the bumper. Pay attention to the order and orientation of these rings so you can install them in the same order/orientation on your new bumper.



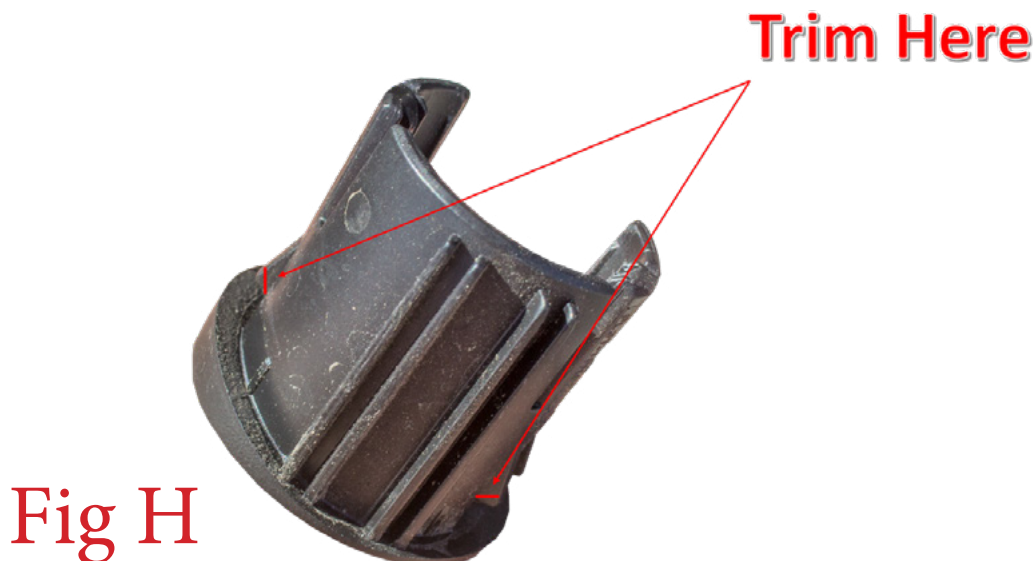
8. Remove the license plate light housings from your OEM Bumper by pressing in the tabs on the back side of the housings and pushing the housings out the front side of the bumper.

9. Use the vehicle's key to unlock the spare tire lock and remove it from the OEM bumper.

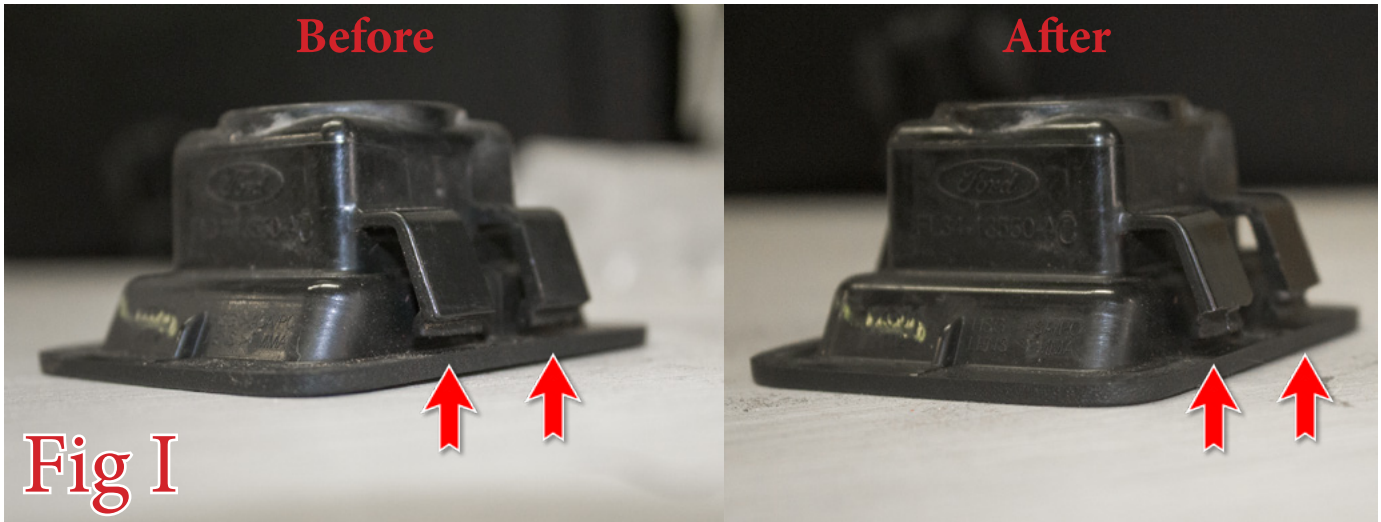
10. Remove the trailer plug from your OEM bumper by pressing in the tabs on the back side of the trailer plug and pushing the trailer plug out the front side of the bumper.

### **Installation:**

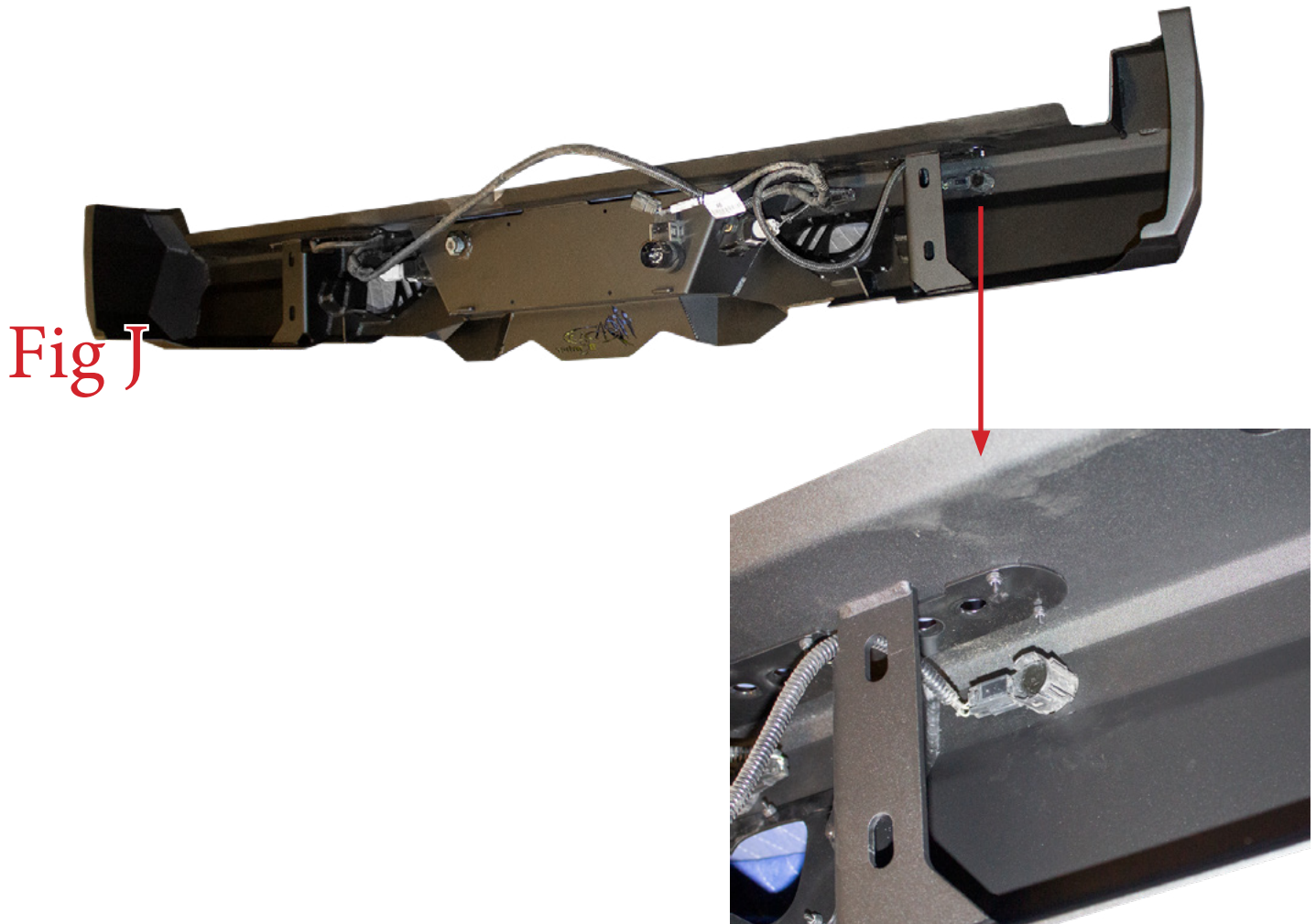
11. Install the parking sensor mounting rings on your new bumper. Press them into their pre-cut holes until they lock into place. If you are having issues getting them to lock into place, you may have to trim the mounting tabs slightly to account for the thicker panel size of your new bumper. (Fig H) shows where to trim the rings. **If your truck does not have parking sensors, install the supplied sensor plugs/grommets in the sensor cutouts of the bumper.**



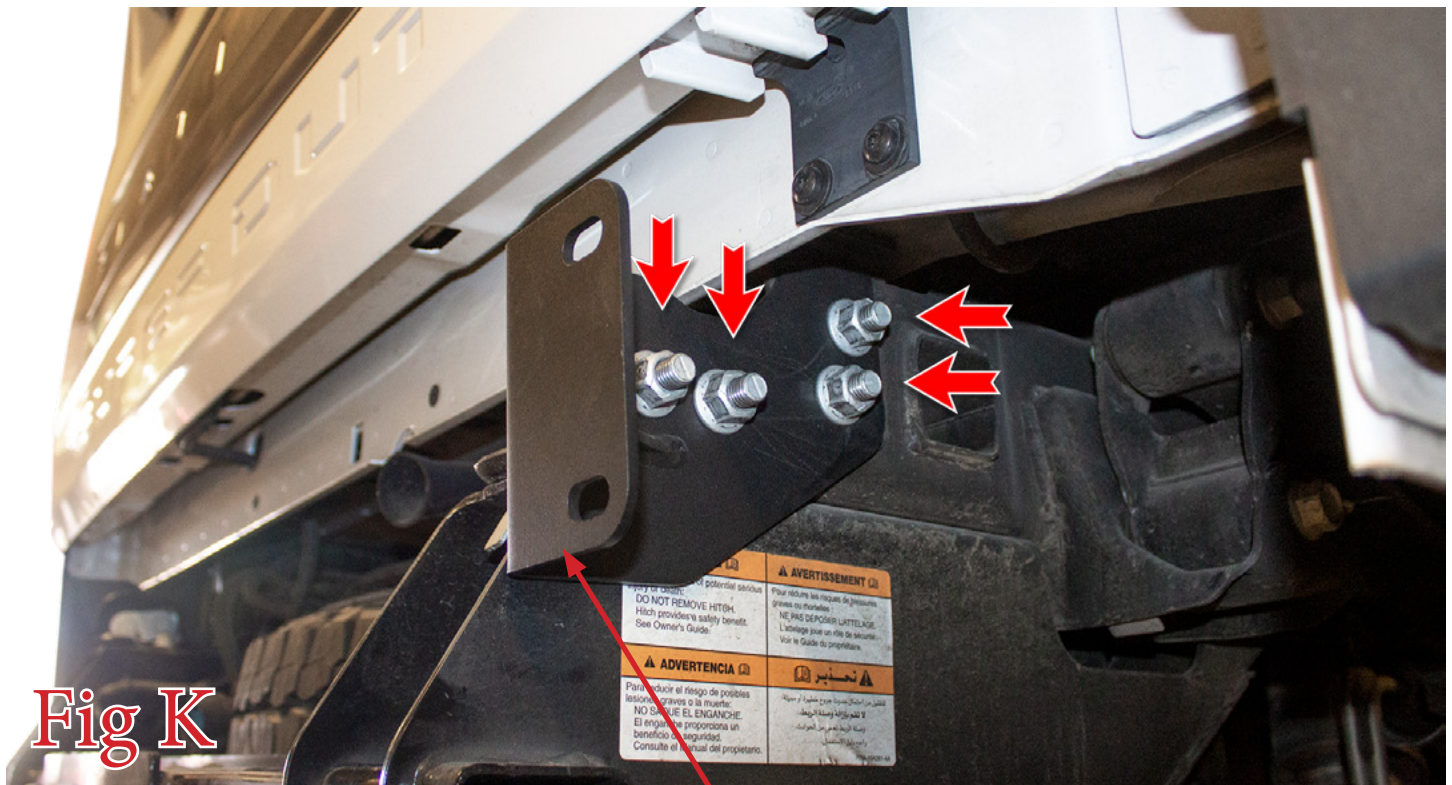
12. Install the license plate light housings on your new bumper by pressing them into their precut holes until they lock into place. If they will not lock into place, you may have to trim the tabs on the back side as shown in (Fig I).



13. Set the parking sensors/bumper harness in place on your new bumper. Do this by pressing the parking sensors into their mounting rings from the back side of the rings. (Fig J)



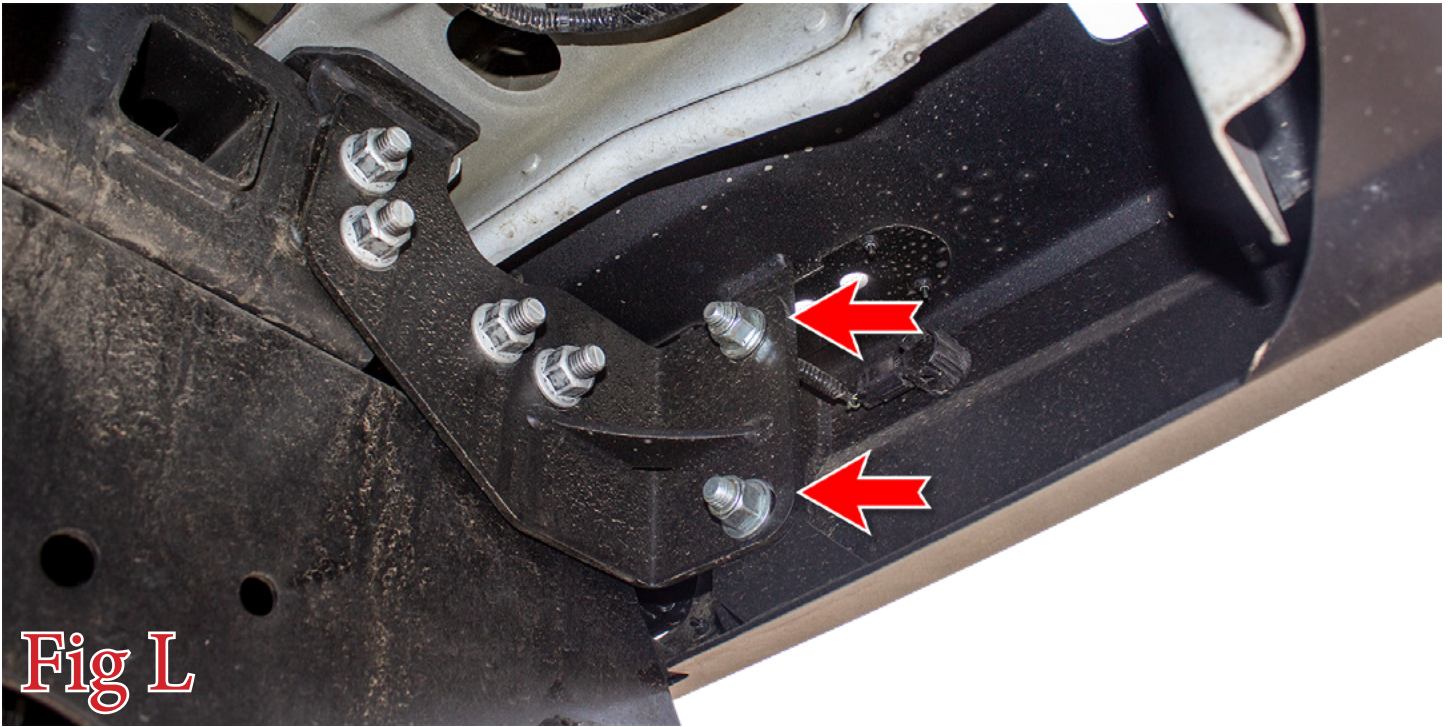
14. Install the spare tire lock onto your new bumper.
15. Install your trailer plug onto your new bumper by pressing into its precut hole until it clicks into place. If it does not want to click into place, you can manually spread the metal tabs on the back side of the trailer plug.
16. If you have any lights to install on your bumper, do so now. Follow the light manufacturer's guide for mounting/wiring information.
17. Find the supplied Bumper Mounting Brackets. Set them in place on the vehicle. Use the hardware from Step 3 to secure the mounting brackets to the vehicle. Once you have all bolts loosely installed, you can go back and tighten them to OEM torque spec. **The position of these brackets is slightly adjustable. Make sure to push up on the front/bottom portion of the mounts as you tighten them so that your bumper will be aligned properly when you install it.** (Fig K)



**Fig K**

**Push up on this as you tighten the mounting bolts.**

18. Set the bumper in place on the vehicle. Use the supplied 1/2" Bolts (x4), 1/2" Washers (x8), and 1/2" Lock Nuts (x4) to secure it. Leave these bolts loose for now. (Fig L)



19. Align the bumper so it is centered left to right and straight in relation to the tailgate. Then, tighten the 1/2" Mounting Bolts to 70 foot pounds.
20. Plug in both connectors from Step 1.
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.

