

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****

****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 | - 7mm Socket | - 13mm Socket |
| - 18mm Socket | - 13/16" Socket | - 3/4" Socket & Wrench |
| - 5/32" Allen Wrench/Socket | - 7/16" Wrench | |

Included in Kit:

- | | |
|---------------------------------------|--------------------------------------|
| 4 - Hex Head Bolts (1/2"-13 x 1 1/2") | 6 - Button Head Bolts (1/4"-20 x 1") |
| 8 - Flat Washers (1/2") | 6 - Flat Washers (1/4") |
| 4 - Nylon Lock Nuts (1/2"-13) | 2 - U-Nuts (1/4"-20) |
| 2 - Blind Spot Sensor Mountin Bracket | 4 - Nylon Lock Nuts (1/4"-20) |

Removal:

1. Underneath the vehicle, towards the passenger side, unplug the main bumper harness connector. (Fig A)

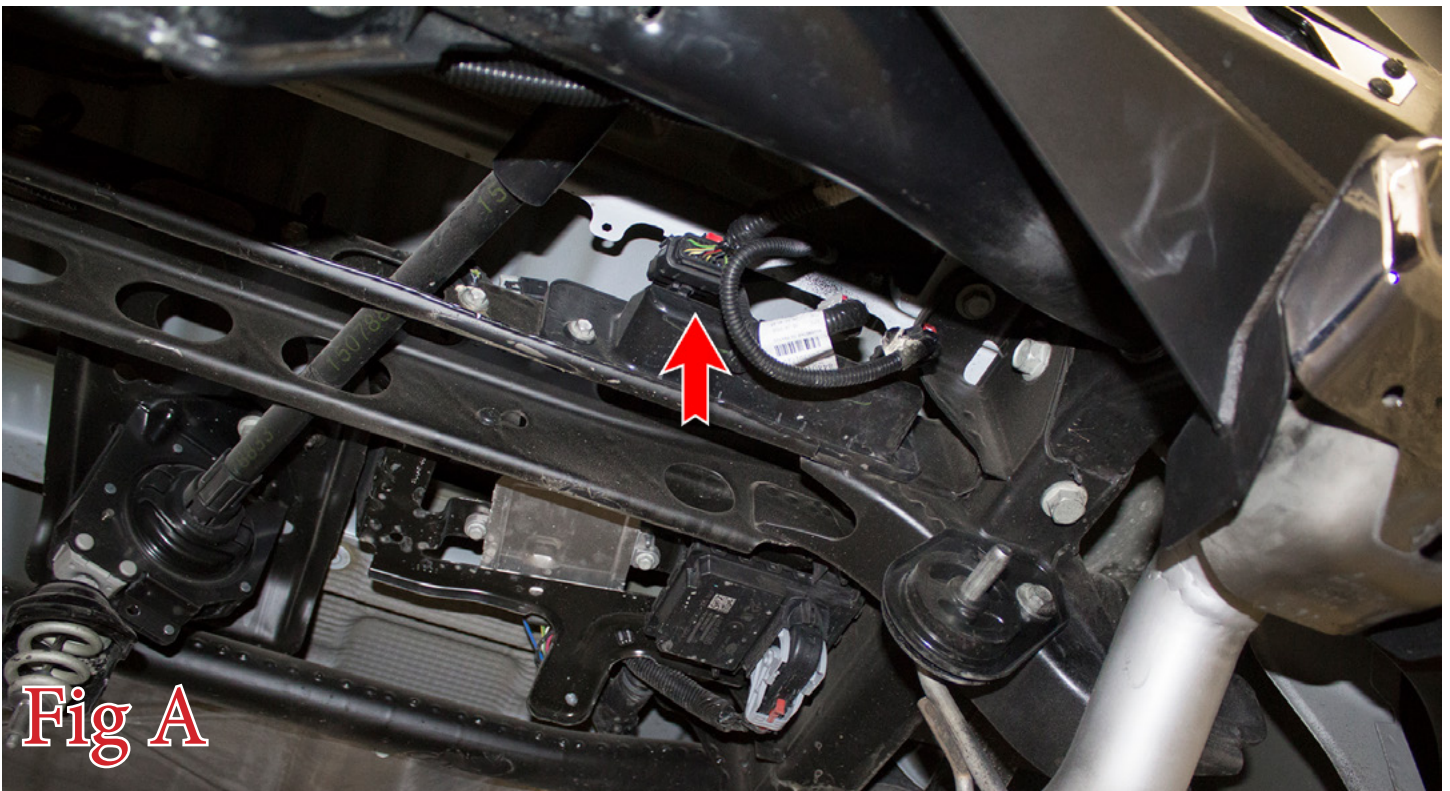


Fig A

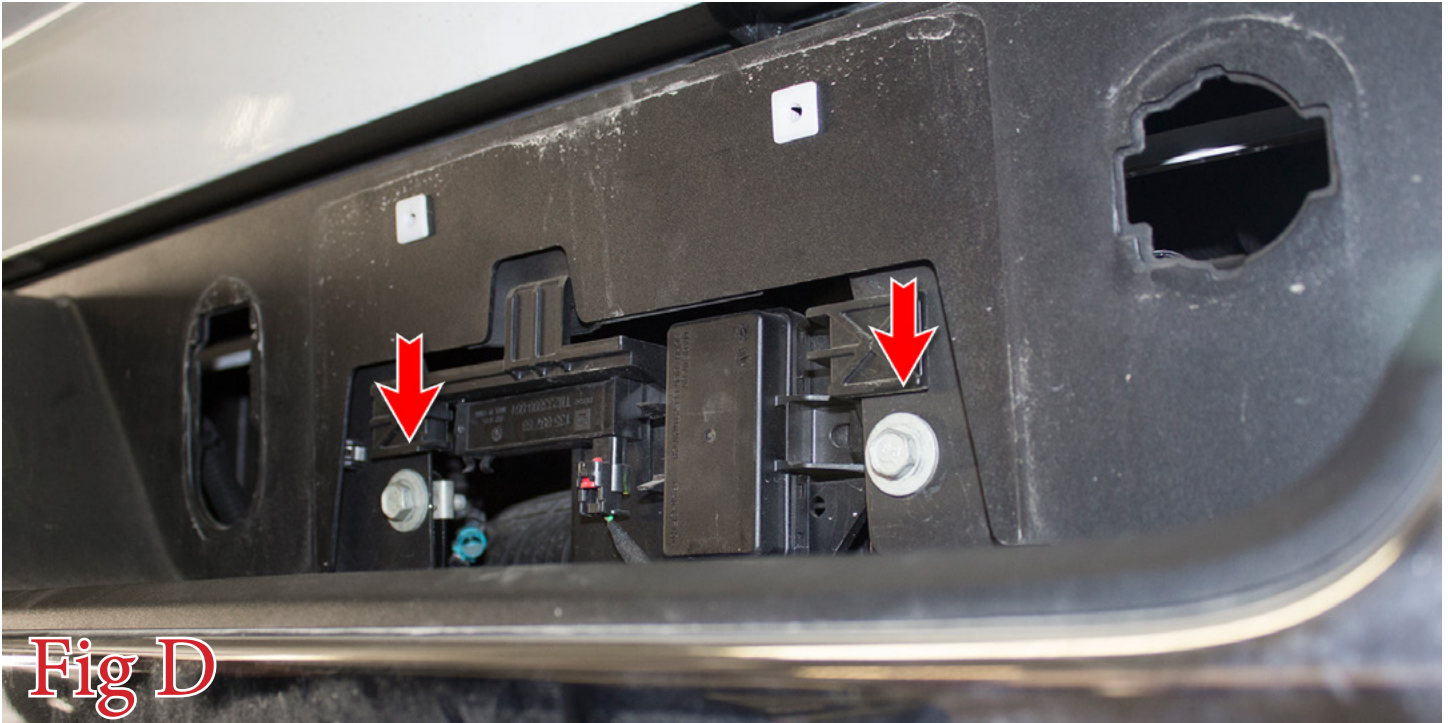
2. Use your key to remove the lock portion of your spare tire lock. Then remove the tube by releasing the tabs on the back side of it. (Fig B)



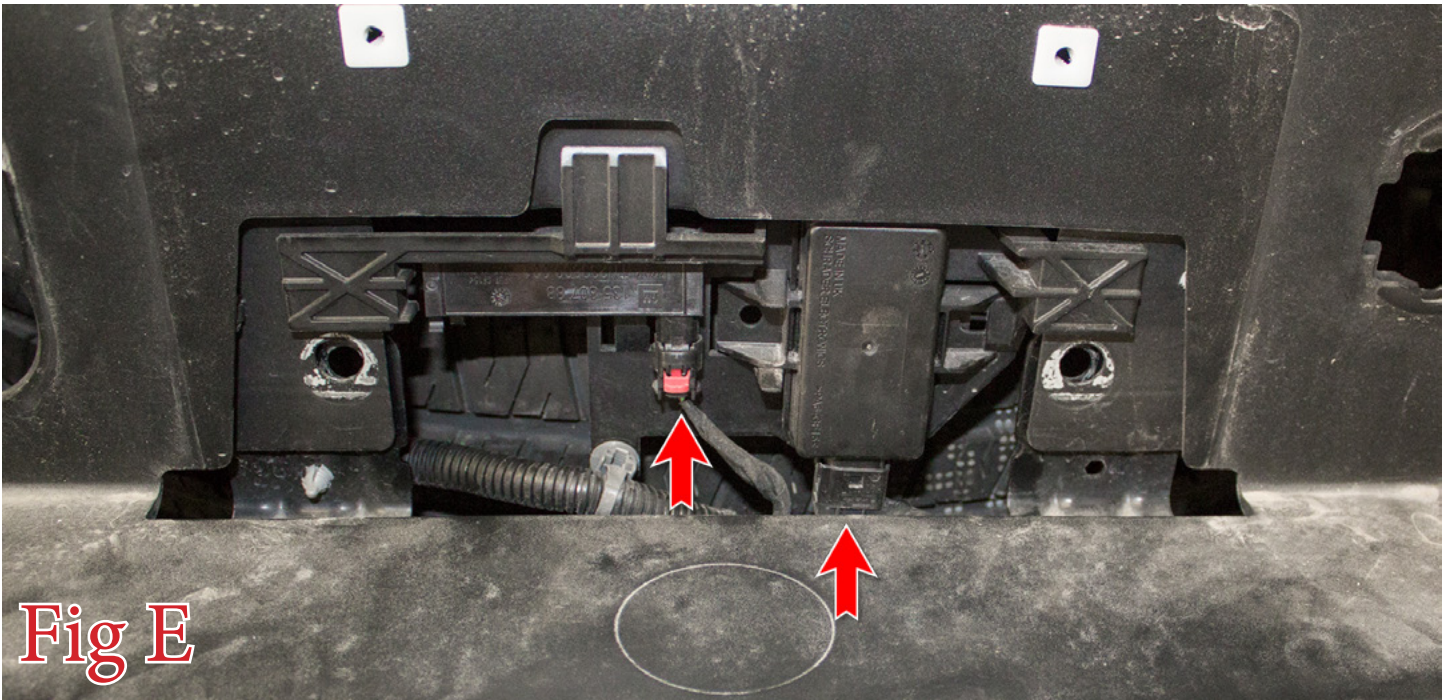
3. Disconnect the plug on the back side of the trailer plug. Then, remove the trailer plug from the bumper by squeezing the tabs together on the back side of the plug. (Fig C)



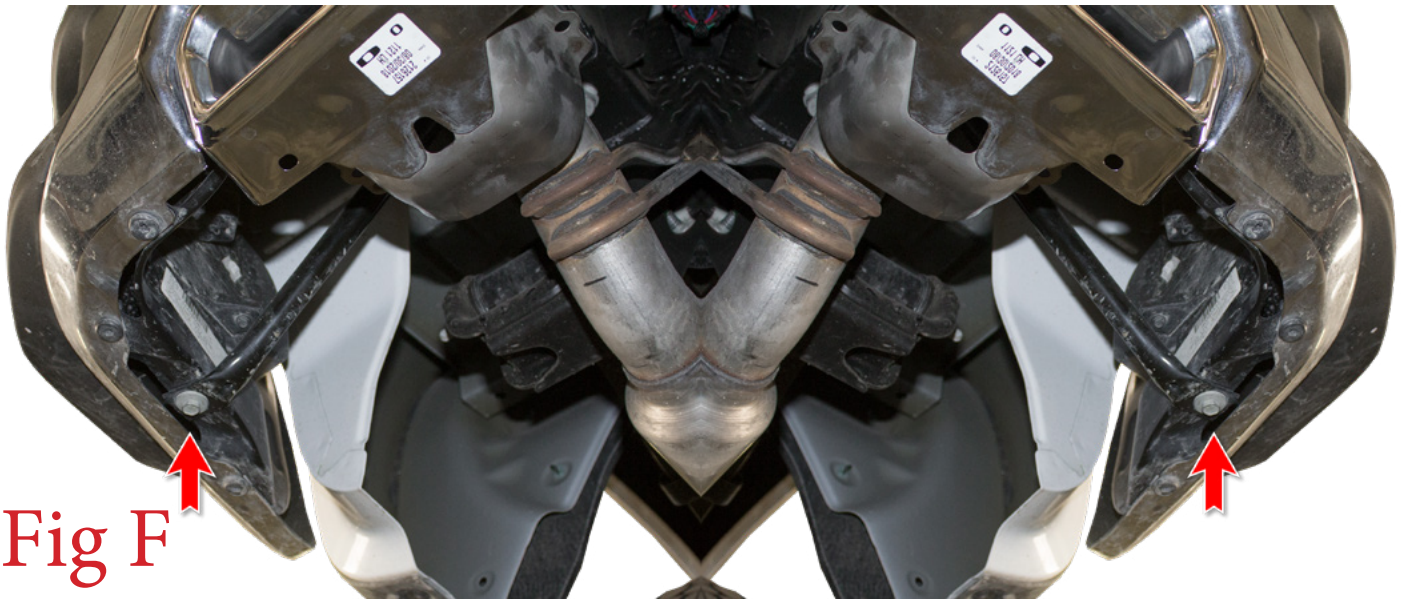
4. Remove your license plate.
5. Using a 13mm Socket, remove the two bolts that sit behind your license plate. (Fig D)



6. Unplug the two modules that sit behind the license plate. (Fig E)



7. Using a 13mm Socket, remove the one bolt (per side) that holds the bumper support bar to the under side of the bumper. (Fig F)



8. Using an 18mm Socket, remove the two mounting nuts (per side) that hold on the OEM bumper. Then, remove the OEM bumper from the vehicle. (Fig G)



9. Using a 13/16" Socket, remove the one bolt (per side) that hold on the bumper support bars. Then, remove these bars from the vehicle. (Fig H)

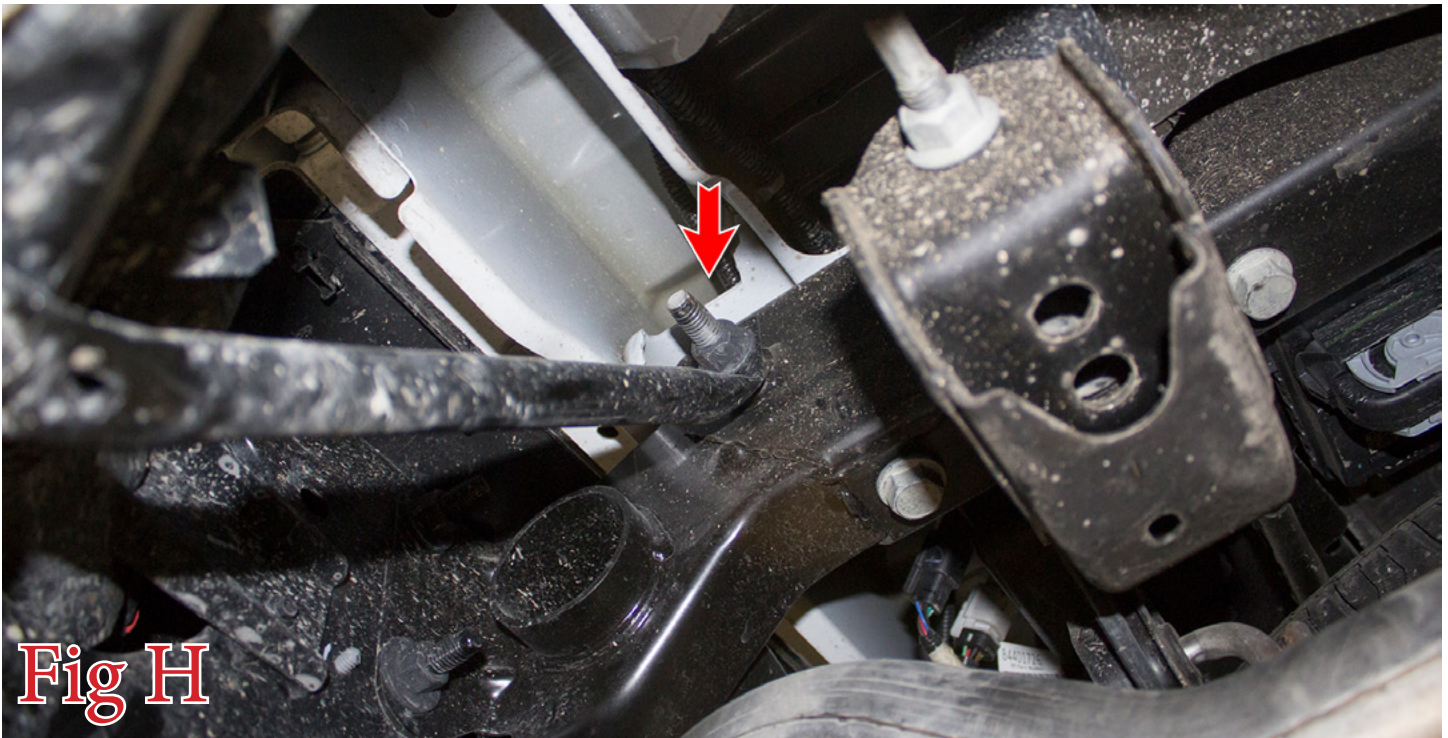


Fig H

10. Using a 7mm Socket, remove the two bolts that hold on the blind spot module cover. Repeat this step on the other side of the bumper. (Fig I)

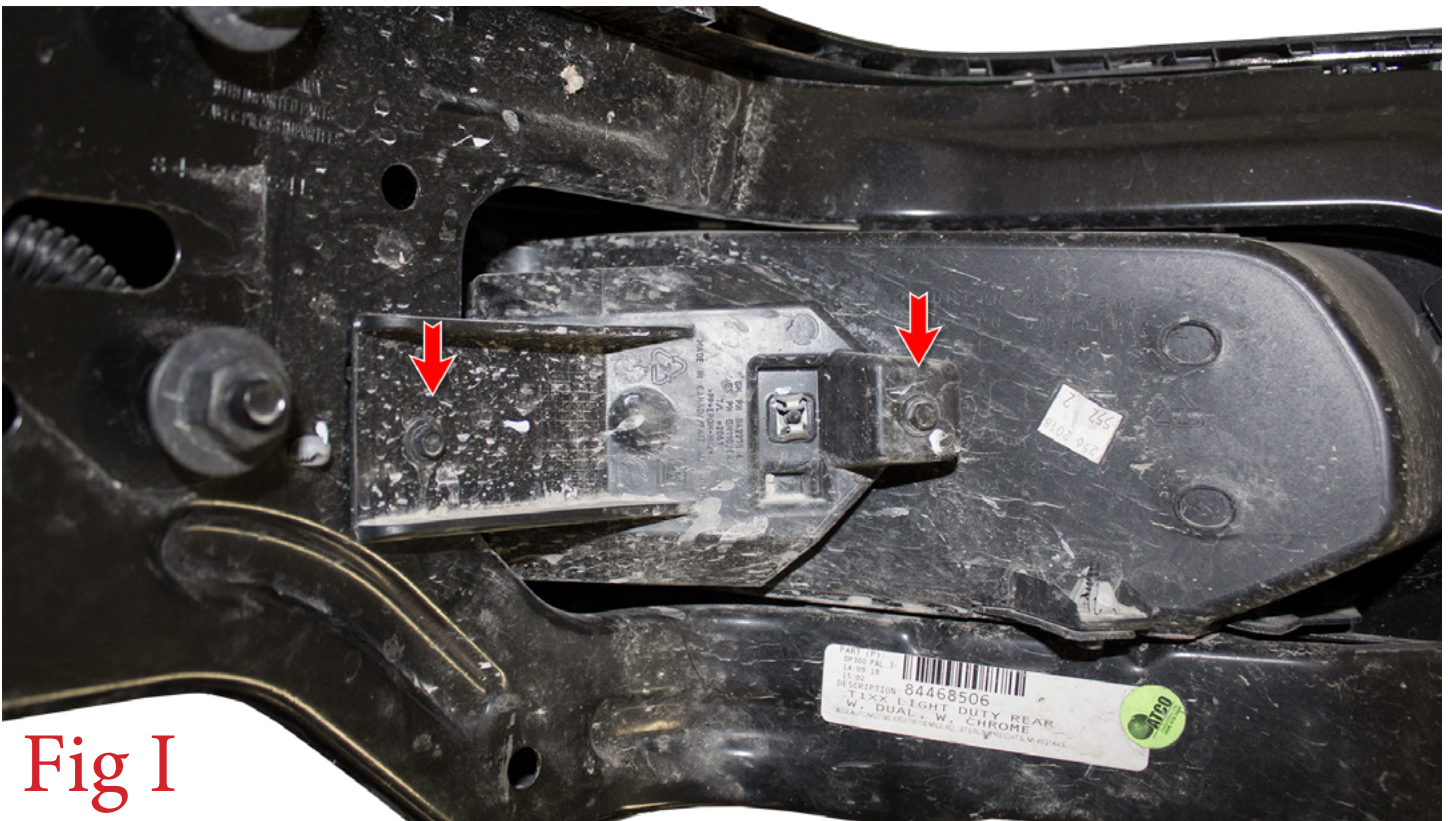
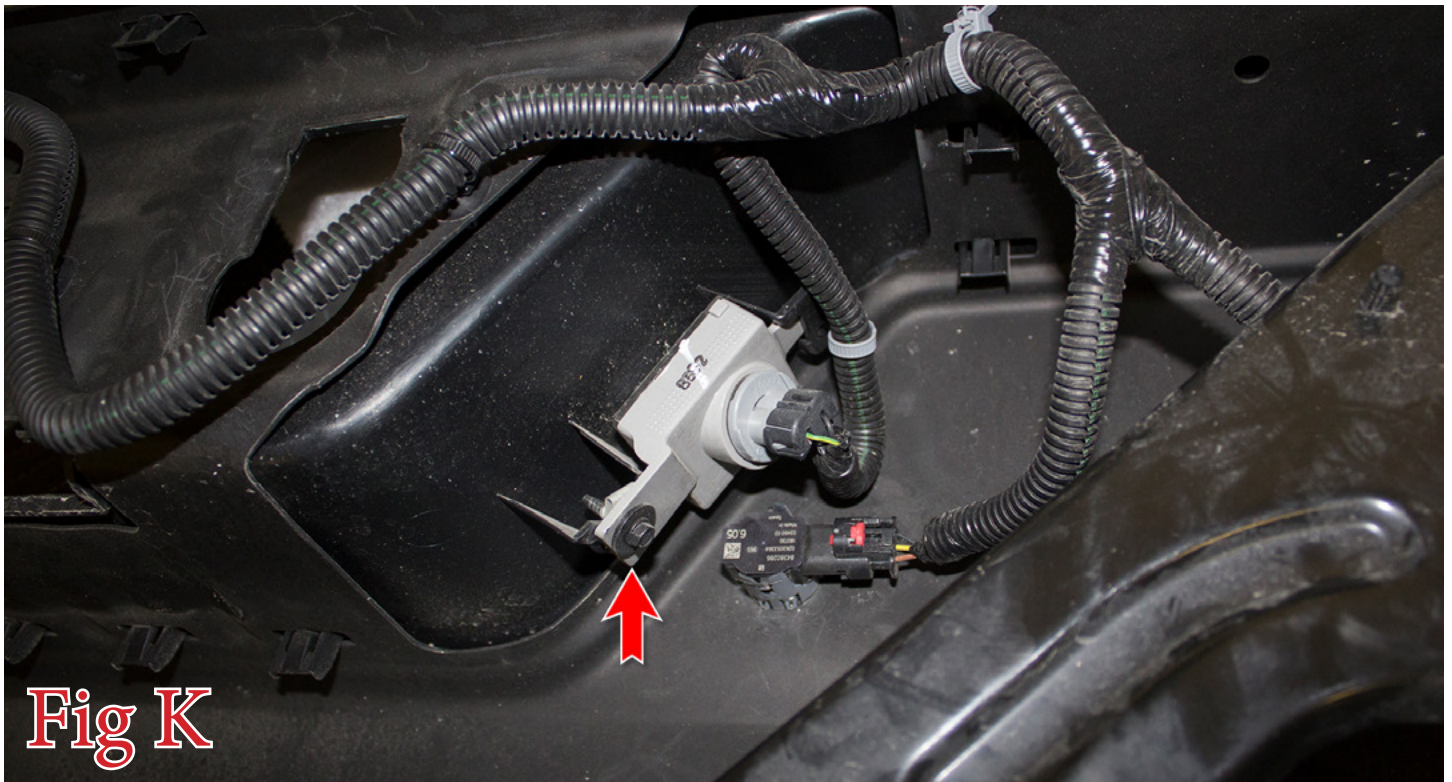


Fig I

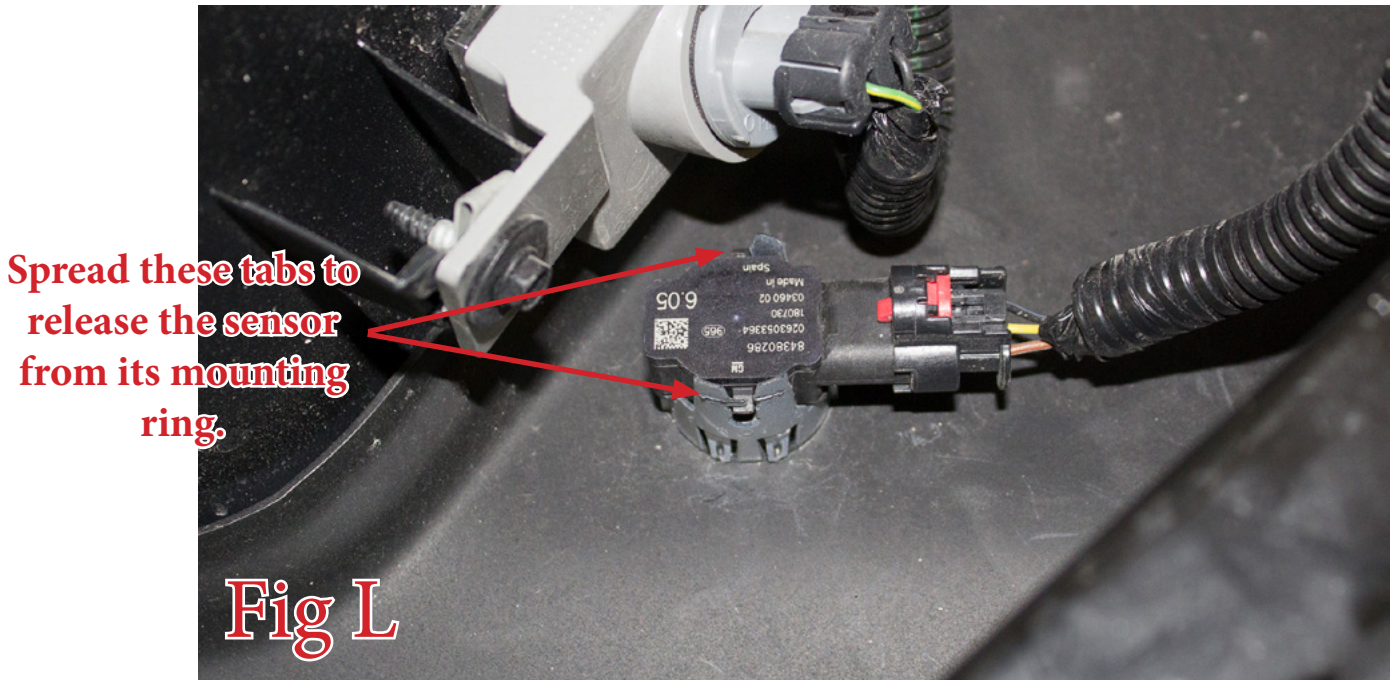
11. Using a 7mm Socket, remove the bolt that holds the blind spot module to its bracket. Then, do this to the other blind spot module. With the bolts removed, unplug and remove the modules. (Fig J)



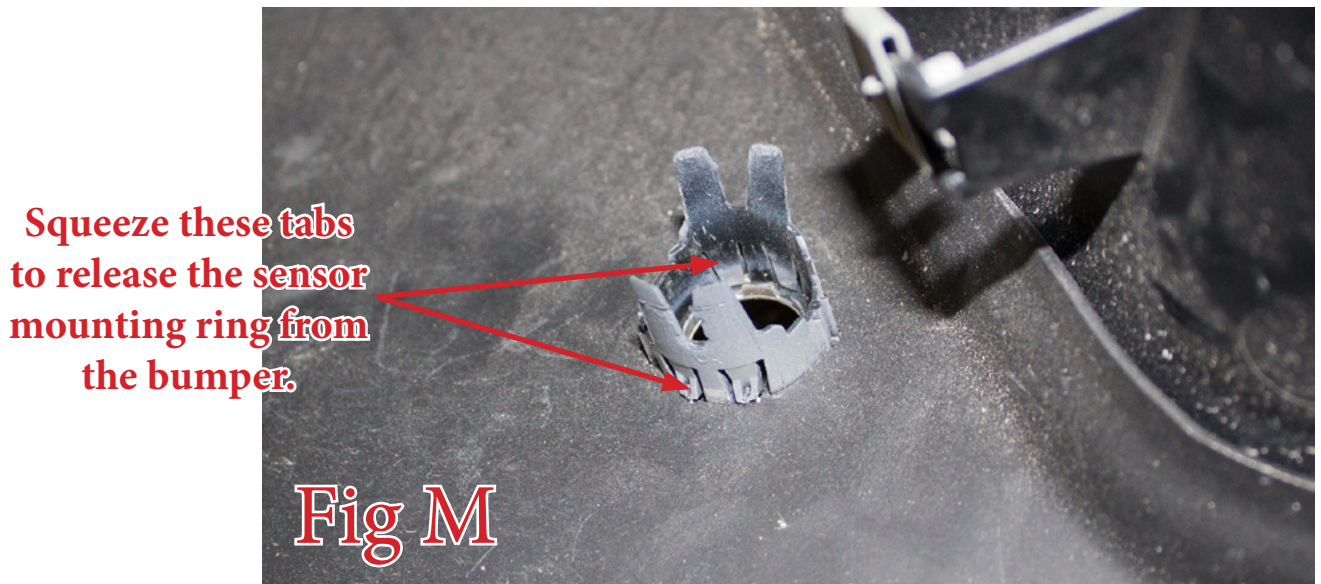
12. Using a 7mm Socket, remove the single bolt (per side) that holds on the license plate light. Then, unplug and remove the license plate light housings from the OEM bumper. (Fig K)



13. Unplug and remove the parking sensors. Do this by spreading the two tabs on the back side of the sensor mounting rings. Be sure to keep track of what position/orientation they are all installed on the OEM bumper so you can install them in the same position/orientation in your new bumper. (Fig L)



14. Remove the parking sensor mounting rings by squeezing the tabs in that hold them into the OEM bumper. Be sure to keep track of what position/orientation they are all installed on the OEM bumper so you can install them in the same position/orientation in your new bumper. (Fig M)



15. Unclip the two modules (from Step 6) from the plastic piece that they are clipped to. (Fig N)

**Release these two
modules from
the plastic piece
they are clipped
to.**

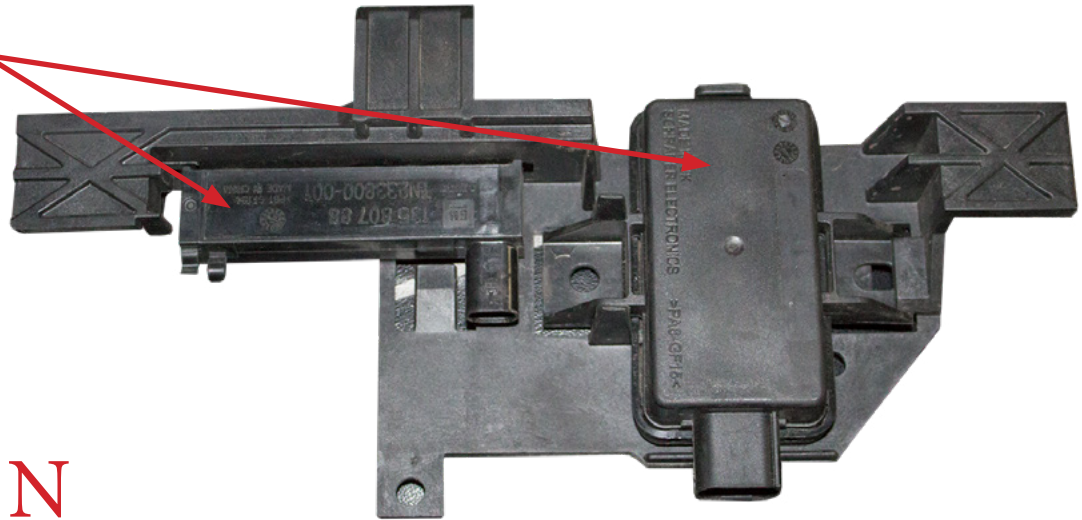


Fig N

Installation:

16. Install the supplied 1/4" U-Nuts (x2) onto the tabs behind the license plate light openings on your new bumper. (Fig O)



Fig O

17. Set the license plate lights in place on your new bumper. The license plate lights will have to be switched, so the left light goes on the right side of the bumper and the right light goes on the left side of the bumper. Put the tab in place in the slot and use the supplied 1/4" Bolts (1 per side) and 1/4" Washers (1 per side) to hold the lights to the bumper. (Fig P) **DO NOT OVERTIGHTEN THESE BOLTS, ONLY TIGHTEN UNTIL THE LIGHT IS BARELY SNUG.**



Fig P

18. Install the parking sensor mounting rings into your new bumper. Be sure to install them in the same position/orientation as they came off the OEM bumper. If the rings do not click into place, you may have to file the tabs down a little to allow for the thicker material of your new bumper. (Fig Q)

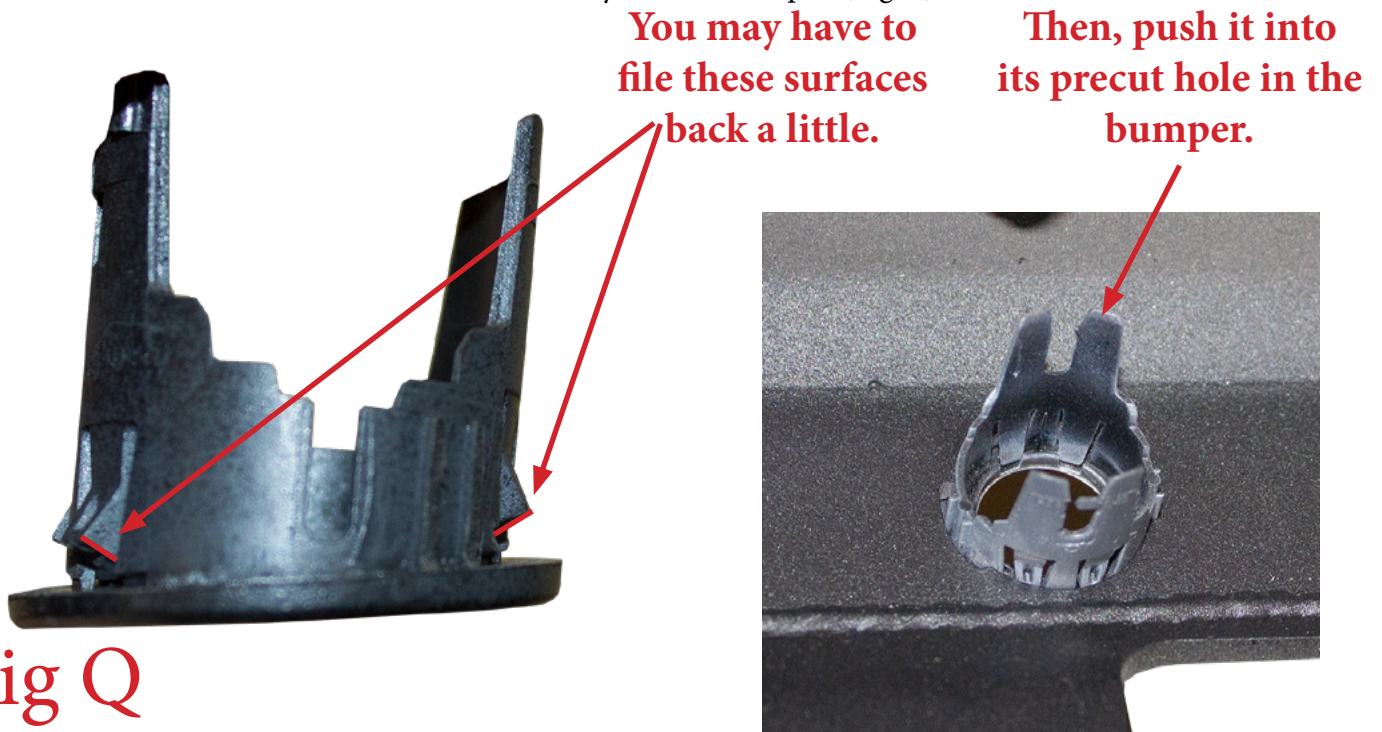


Fig Q

19. If you have any lights to install on your bumper, do so now. Follow the light manufacturer's guide for mounting/wiring information.

20. Install the parking sensors into their mounting rings by pushing them into the back side of the ring until they click into place. Make sure to install them in the same position/orientation as they came off the OEM bumper (outer rings have the connectors facing the center of the bumper, while the inner sensors have the connector facing the outside of the bumper). **Carry the harness over to the new bumper at this time. Make sure to keep the main connector on the same side as it was on the OEM bumper.** (Fig R)

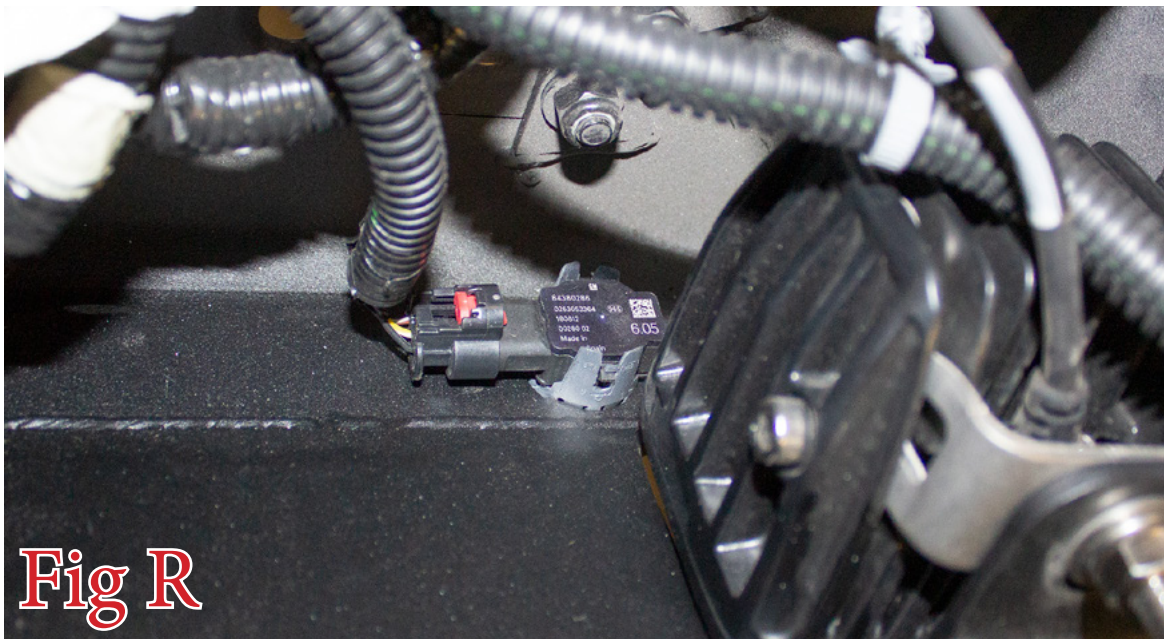


Fig R

21. Set the blind spot modules in place using the supplied Blind Spot Module Bracket. First, slide the tab on the module into the hole cut into the mounting bracket. Then, use the supplied 1/4" Bolts (2 per side), 1/4" Washers (2 per side), and 1/4" Lock Nuts (2 per side) to bolt the bracket to the tab on the bumper. . **Make sure to plug the module into the bumper harness before mounting it to the bumper.** (Fig S)



Fig S

22. Install the trailer plug onto your new bumper by pressing it into its precut hole until it clicks into place. (Fig T)



Fig T

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

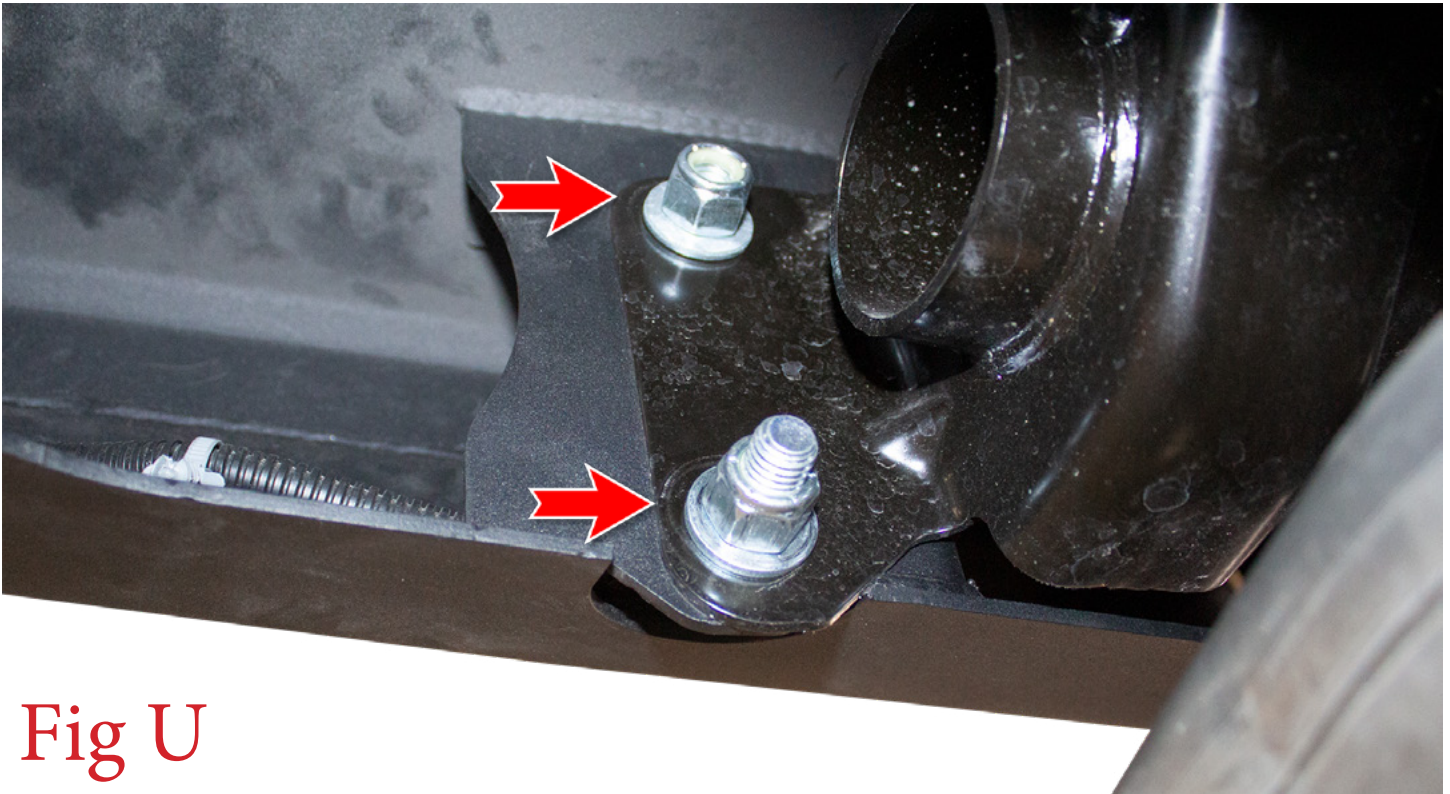


Fig U

24. Find the two modules from Step 15. Plug them back into the wiring harness on the truck and zip-tie up and out of the way. (Fig V)

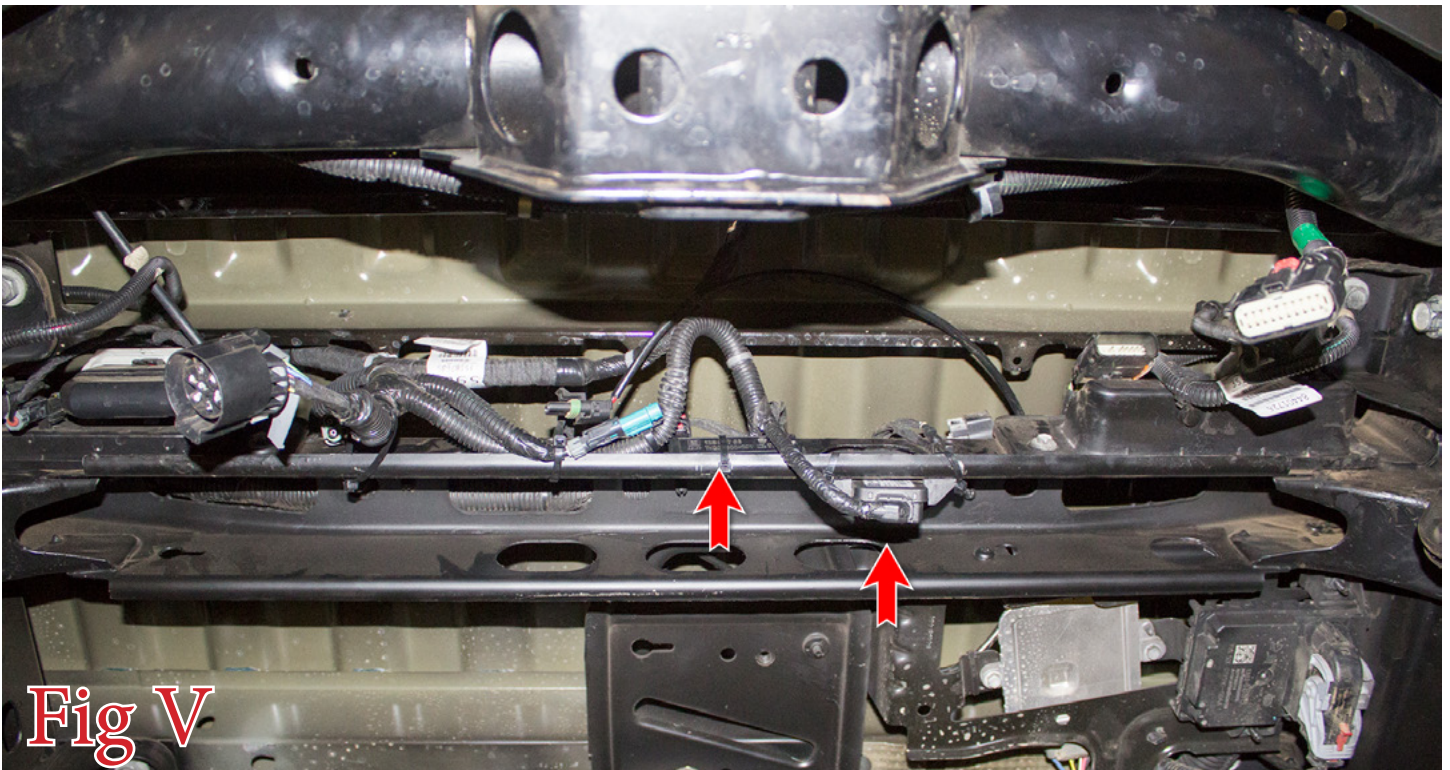


Fig V

25. Align your new bumper so it is straight in relation to the tailgate and centered left to right. Then, torque the 1/2" mounting bolts to 70 foot pounds.
26. Plug the bumper harness back into the connector from Step 1.
27. Plug the connector into the back side of the trailer plug.
28. Stand back and enjoy your new ADD Stealth™ Rear Bumper.
29. Check and re-tighten, if needed, all mounting bolts after 100 miles and periodically thereafter.

