

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: **3 Hours for OEM Removal/Bumper Installation**
 - 1 Additional Hour to Wire Center Lights**
 - 1 Additional Hour to Wire Side Lights**
 - 1.5 Additional Hours to Install Winch**

****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 | - 7/32" Allen Wrench/Socket |
| - 7mm Socket | - 10mm Socket | - 13mm Socket |
| - 15mm Socket | - 18mm Socket & Wrench | - T-10 Torx Socket |
| - Utility Knife | - 7/16" Socket & Wrench | |

Included in Kit:

- | | |
|---|--|
| 8 - Hex Head Bolts (M10-1.5 x 30mm) | 8 - Flat Washers (M10) |
| 4 - Black Button Head Bolts (3/8"-16 x 3/4") | 4 - Black Washers (3/8") |
| 4 - Nylon Lock Jam Nuts (3/8"-16) | 4 - Hex Head Bolts (1/2"-13 x 1 1/2") |
| 8 - Flat Washers (1/2") | 4 - Nylon Lock Nuts (1/2"-13) |
| 6 - Cable Ties (8" long) | 2 - Hex Head Bolts (1/4"-20 x 3") |
| 8 - Flat Washers (1/4") | 6 - Hex Nuts (1/4"-20) |
| 2 - 2" Section of Rubber Tubing (1/4" ID) | 1 - Shutter Motor Bracket (2 Pieces) |
| 1 - Winch Plate | |

Removal:

1. Pop the hood and use a T10 Socket to remove the two hood latch bolts referenced in (Fig A). Then, remove the outer portion of the handle and set it aside along with the bolts.



Fig A

2. Remove the radiator cover mounting clips (x9). Then, remove the radiator cover. (Fig B)



Fig B

3. On the passenger side of the vehicle, use a T10 Socket to remove the two inner fender liner bolts closest to the front end of the fender flare. (Fig C)



4. Pull the fender flare back. The fender flare is held on by a series of plastic clips that can be pulled off without using any tools. Then, use a 7mm Socket to remove the bolt that sits behind the flare. (Fig D) Set this bolt aside for reuse.



5. Remove the passenger side valance from the vehicle. The valance is held on by a series of plastic clips, and can be pulled off by hand. (Fig E)



6. Release the plastic clips closest to the grille on the driver side valance. This valance does not need to be pulled all the way off. (Fig F)



Release the clips along this side of the valance, but do not pull the valance all the way off the vehicle.

7. Using a 10mm Socket, remove the mounting bolts (x4) along the top of the grille. (Fig G)



Fig G

8. Remove the grille from the vehicle. There is one connector on the passenger side that needs to be disconnected as the grille is being removed. (Fig H)

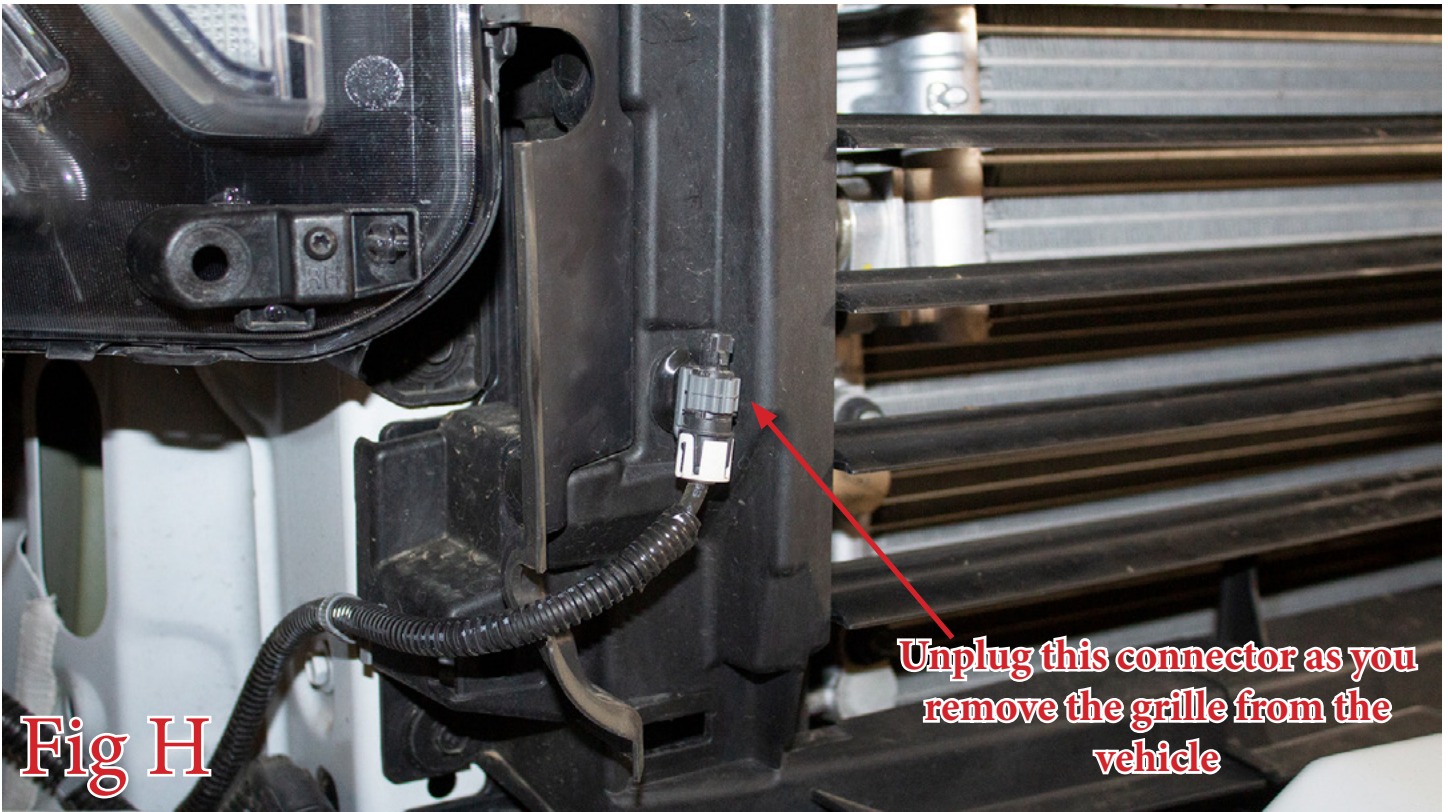


Fig H

9. Unplug the connector underneath the headlight on the passenger side. (Fig I)

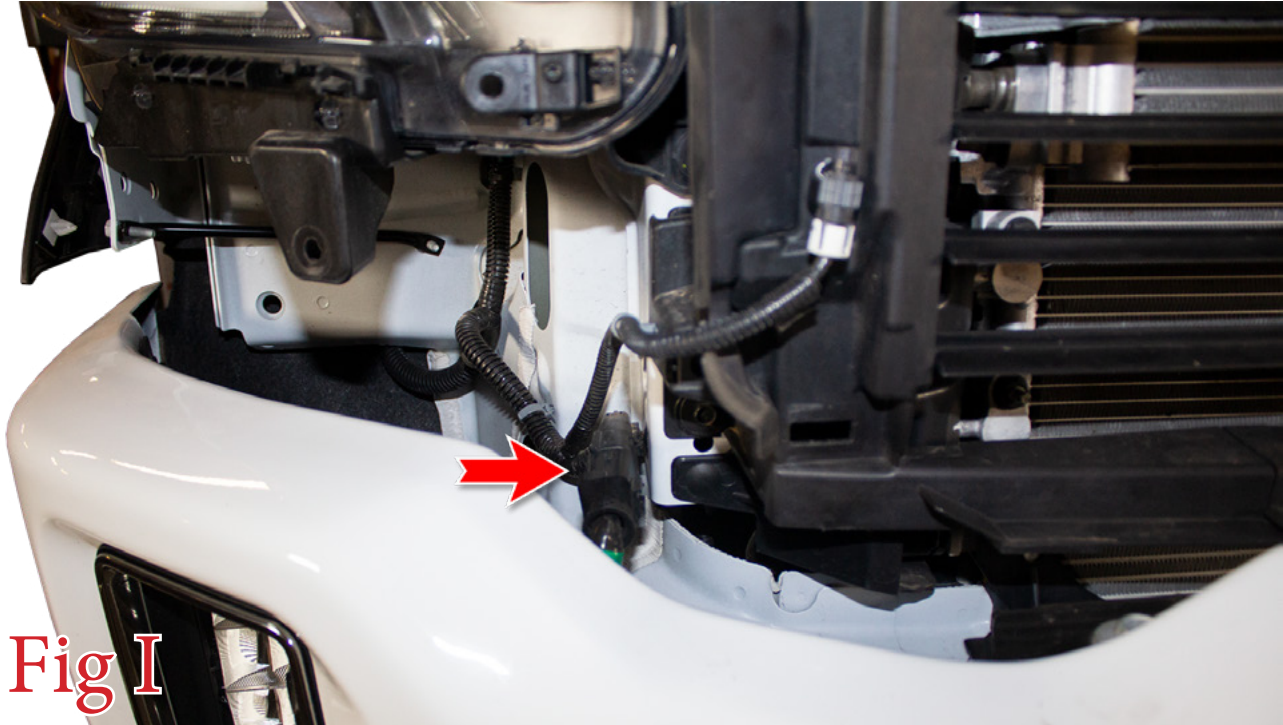


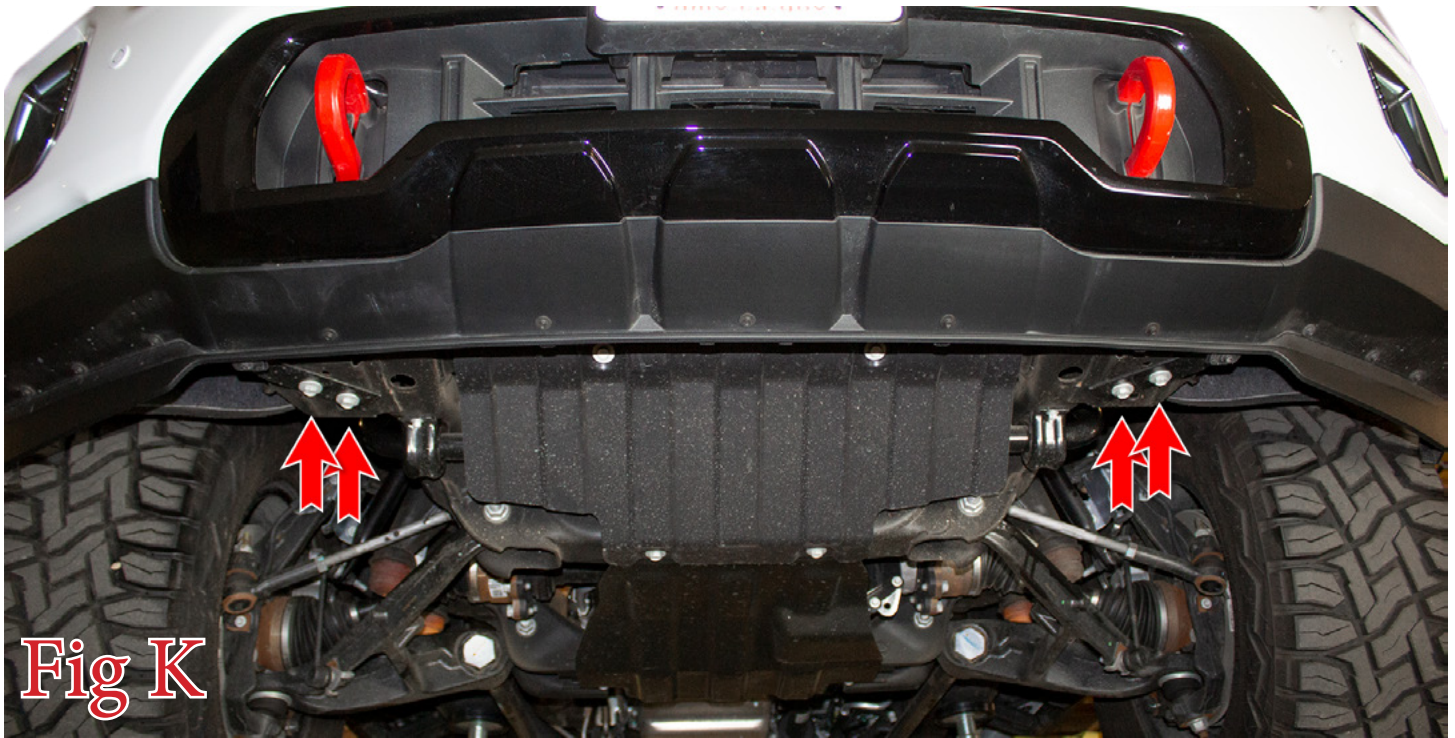
Fig I

10. Unplug the connector underneath the headlight on the driver side (if applicable). If your vehicle does not have a block heater, you will not have this connector. (Fig J)



Fig J

11. From underneath the vehicle, use a 15mm Socket to remove the two mounting bolts (per side) that hold the bumper support bars to the vehicle. (Fig K)



12. Looking down from the top of the bumper, there are two mounting bolts per side. Use an 18mm Socket to remove these four bolts. Then, remove the OEM Bumper from the vehicle. (Fig L)



13. Unplug the connector on the bottom side of the intercooler shutter system. (Fig M)

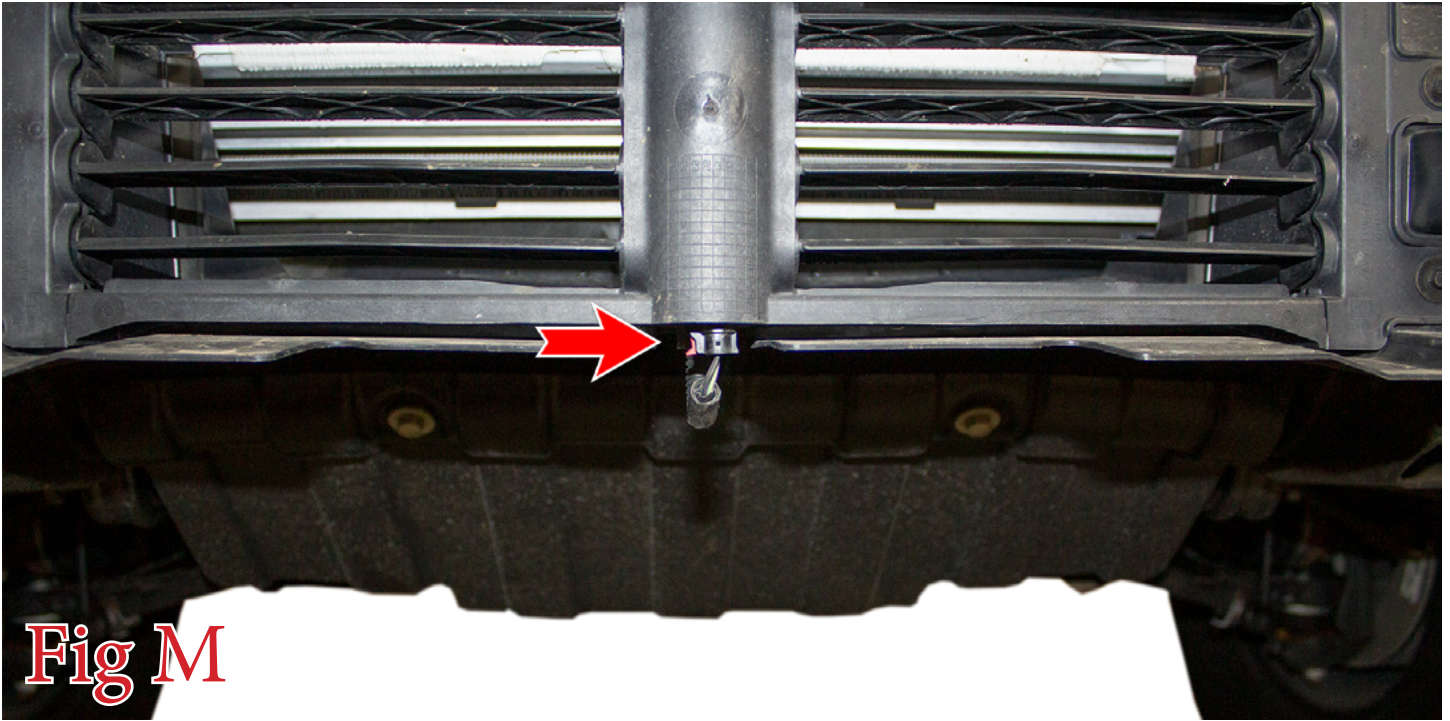


Fig M

14. Release the 4 plastic clips holding the shutter motor harness to the plastic scoop. (Fig N)

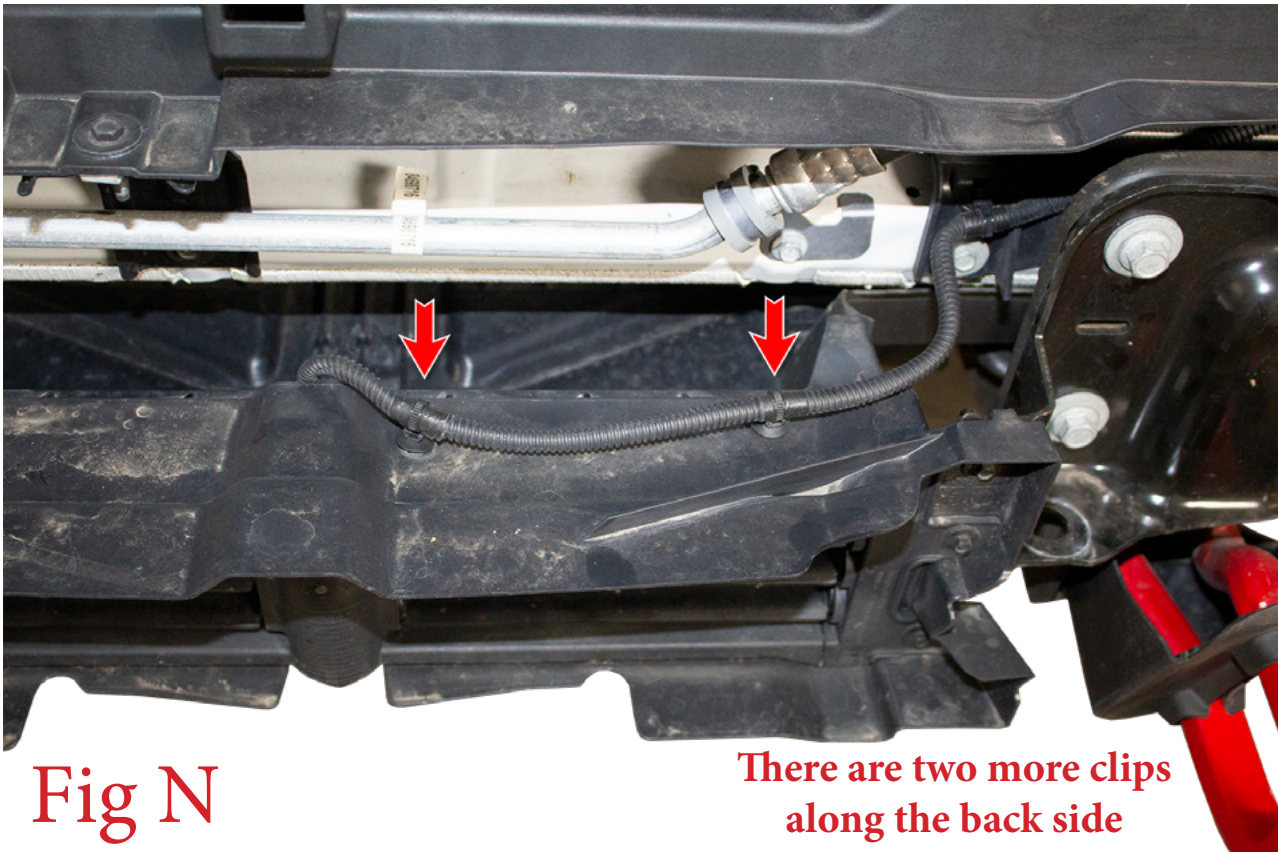


Fig N

**There are two more clips
along the back side**

15. Use a 15mm Socket to remove the 8 bolts that hold the bumper bracket/intercooler scoop assembly to the vehicle. Then, remove the scoop/bracket. (Fig O)

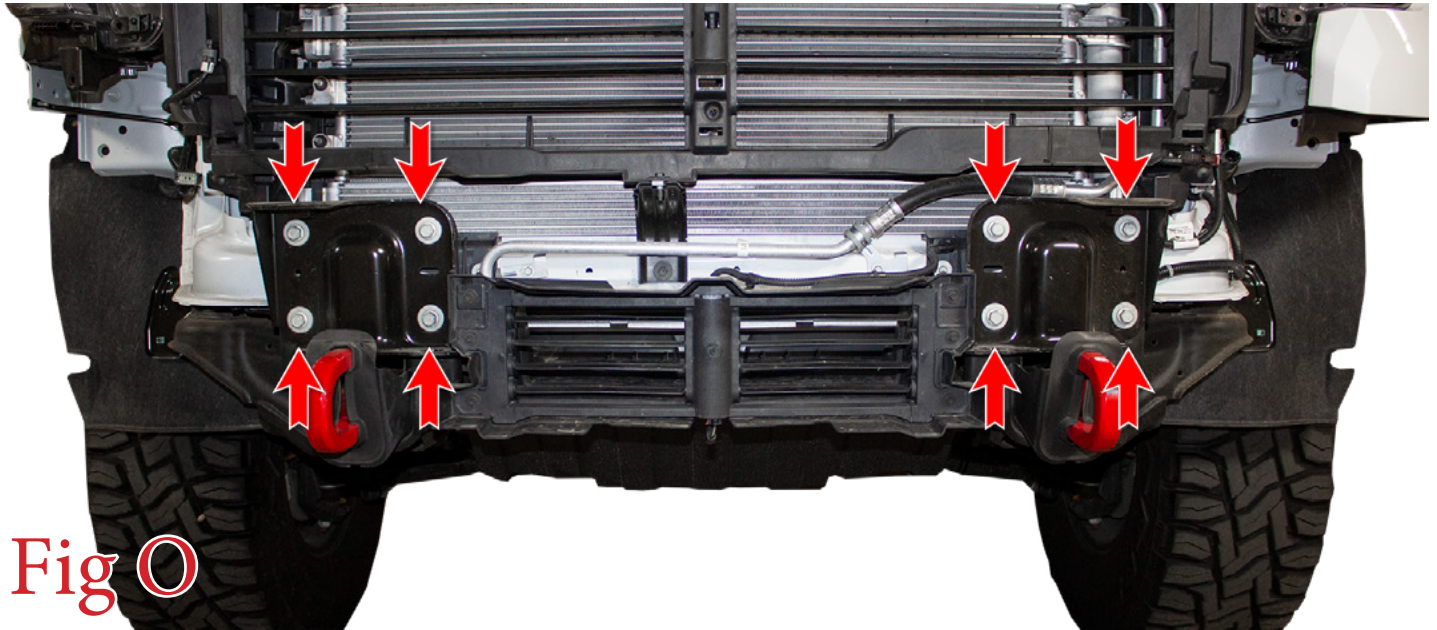


Fig O

16. Using a 7mm Socket, remove the bolts mounting the intercooler scoop to the bumper bracket. Then, separate the scoop from the bracket. (Fig P)

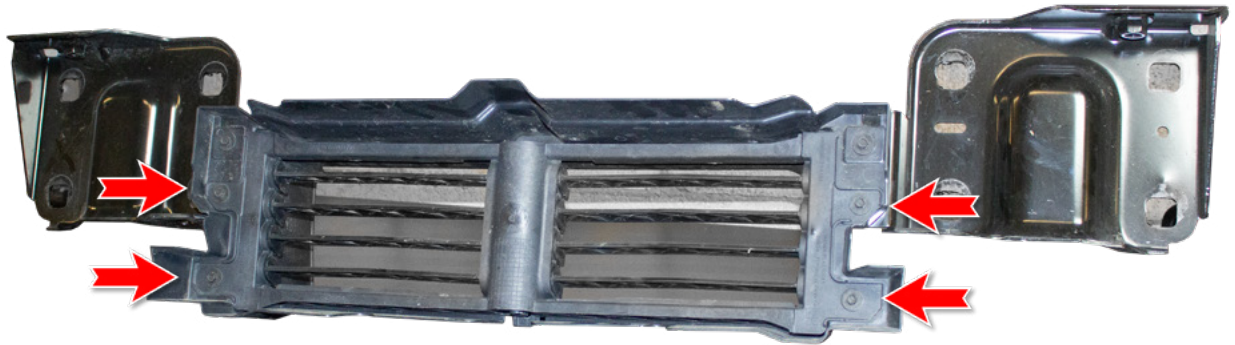
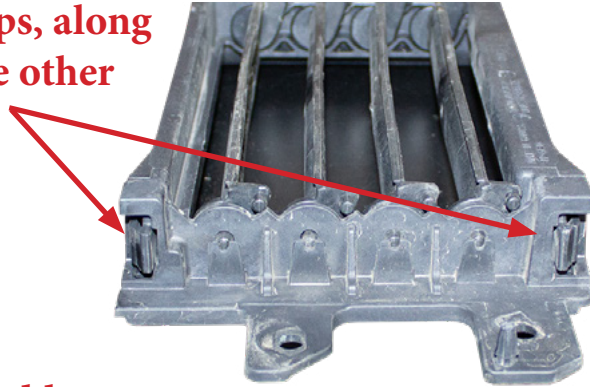


Fig P

17. Undo the two clips (per side) on the scoop assembly. Then, remove the sides and shutters from the scoop assembly. (Fig Q)

Undo these two clips, along the two clips on the other side of the scoop.



Your scoop assembly should now look like this



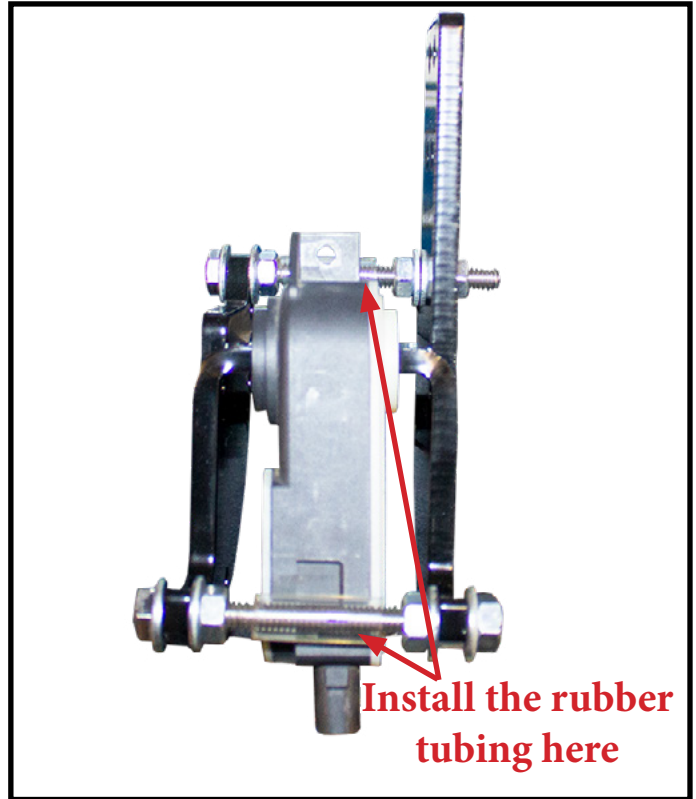
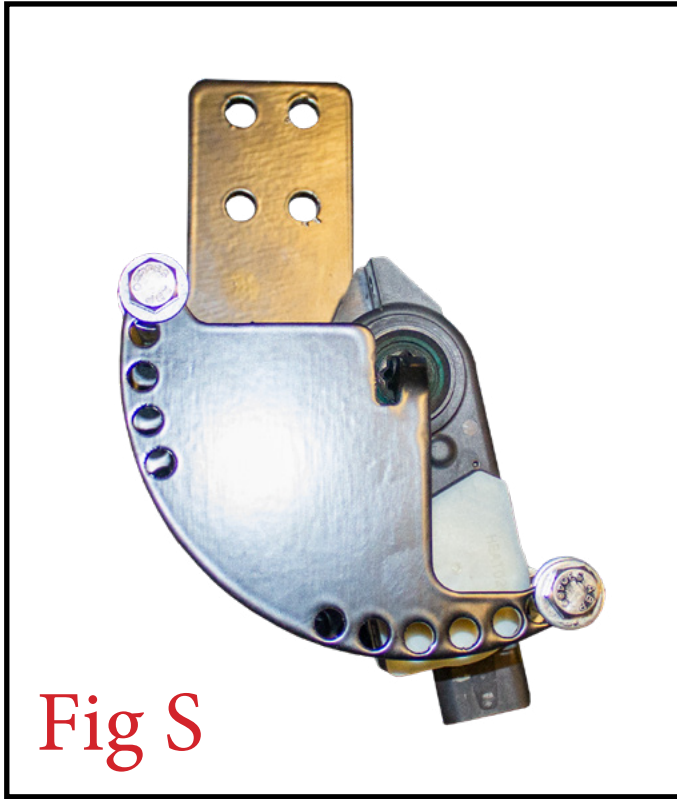
Fig Q

18. Remove the shutter motor from the scoop assembly. (Fig R)



Fig R

19. Find the two shutter motor bracket pieces. Then, install the shutter motor into the bracket pieces as shown in (Fig S). Use the supplied 1/4-20 x 3" Bolts (x2), 1/4" Washers (x8), and 1/4-20 Hex Nuts (x6). As you are putting this together, install the supplied rubber tubing onto the bolts. **Make sure to put the bolts through the outer most set of holes.**



20. On the driver side of the remaining portion of the intercooler scoop, use a utility knife, or something similar, to trim off the corner following the guide shown in (Fig T).



Cut Along this Line

21. Remove the bolt referenced in (Fig U). Then, put the shutter motor/bracket assembly in place as shown and reinstall that bolt. **The motor will swing within the range of the two mounting bolts. Make sure the wiring is zip tied out of the way, but also allows the shutter motor to move as needed.**



Fig U

22. Remove the two plastic clips referenced in (Fig V). Then remove the rubber cover from the tow hooks.



Fig V

23. Use an 18mm Socket & Wrench to remove the tow hook mounting bolts (2 per hook). Then, remove the tow hooks from the vehicle. (Fig W)

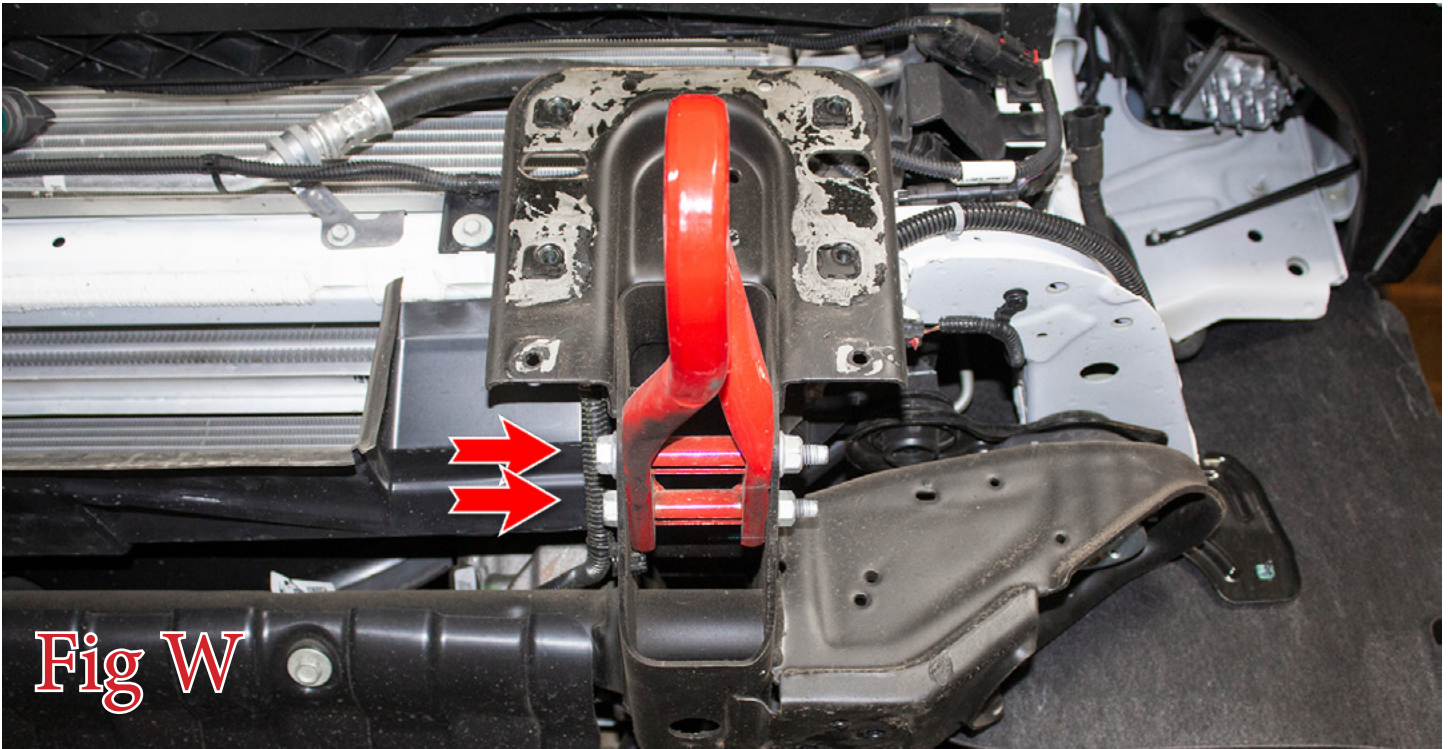


Fig W

24. Reinstall the grille/valance by reversing Steps 1-8.

25. With the OEM bumper on a workbench, remove the 7mm bolt (1 per side) that holds the inner structure to the bumper. (Fig X)

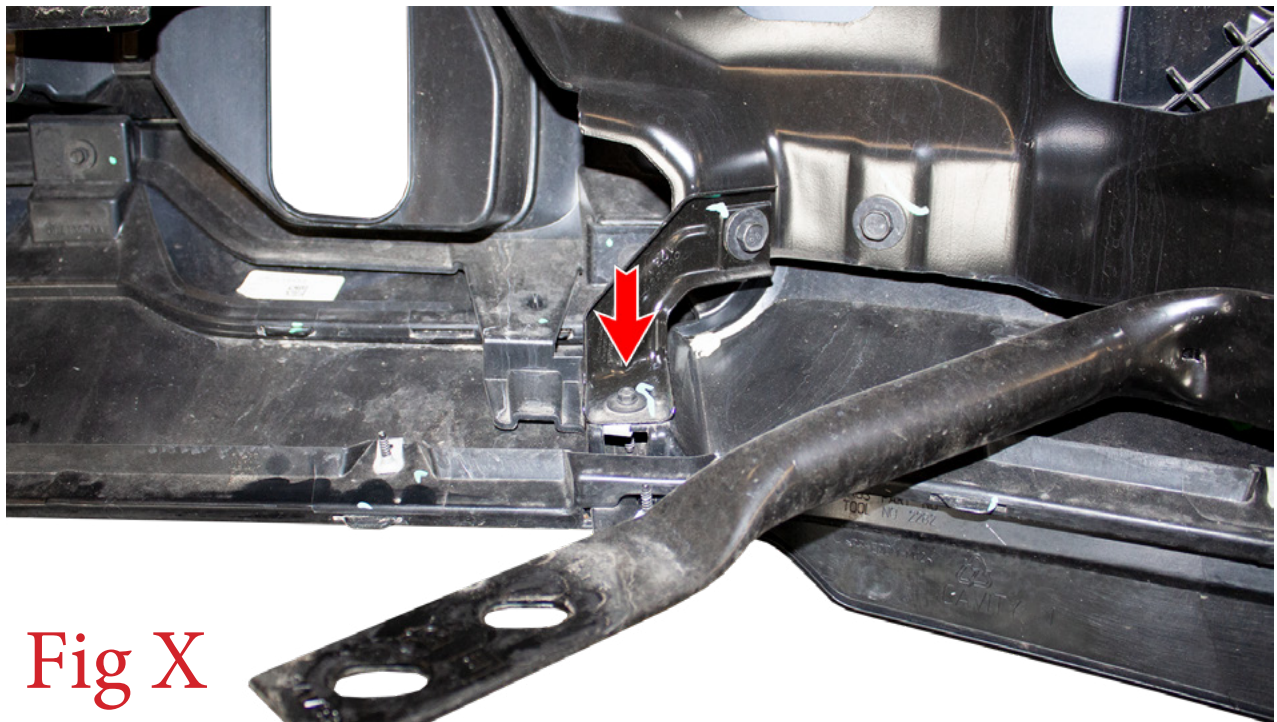
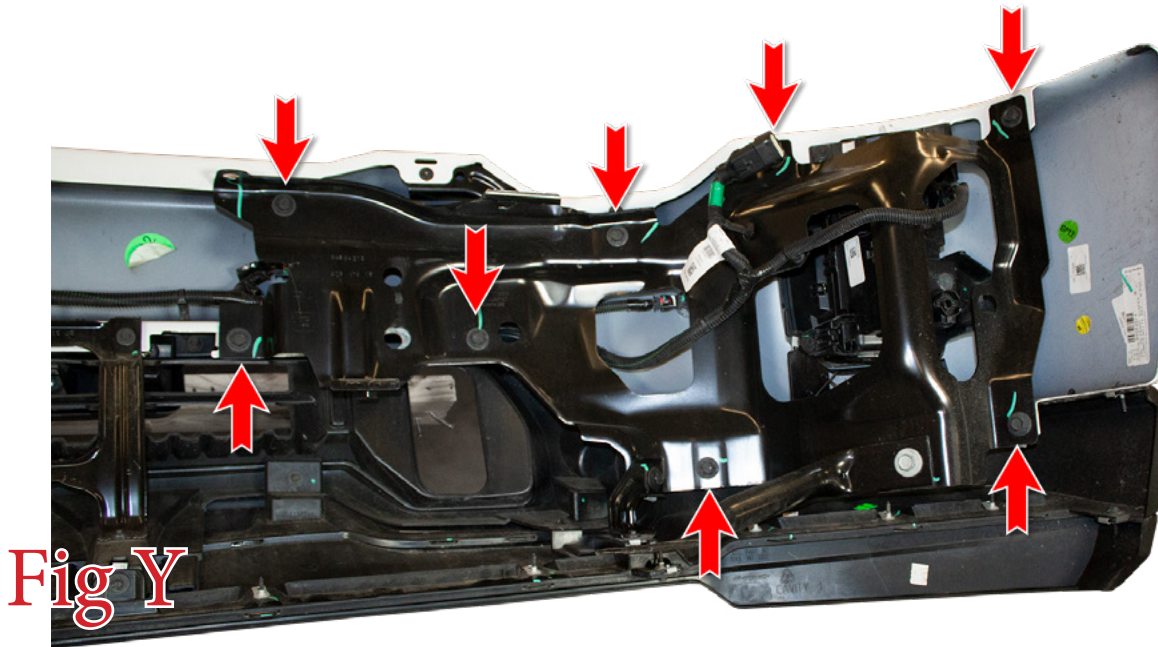
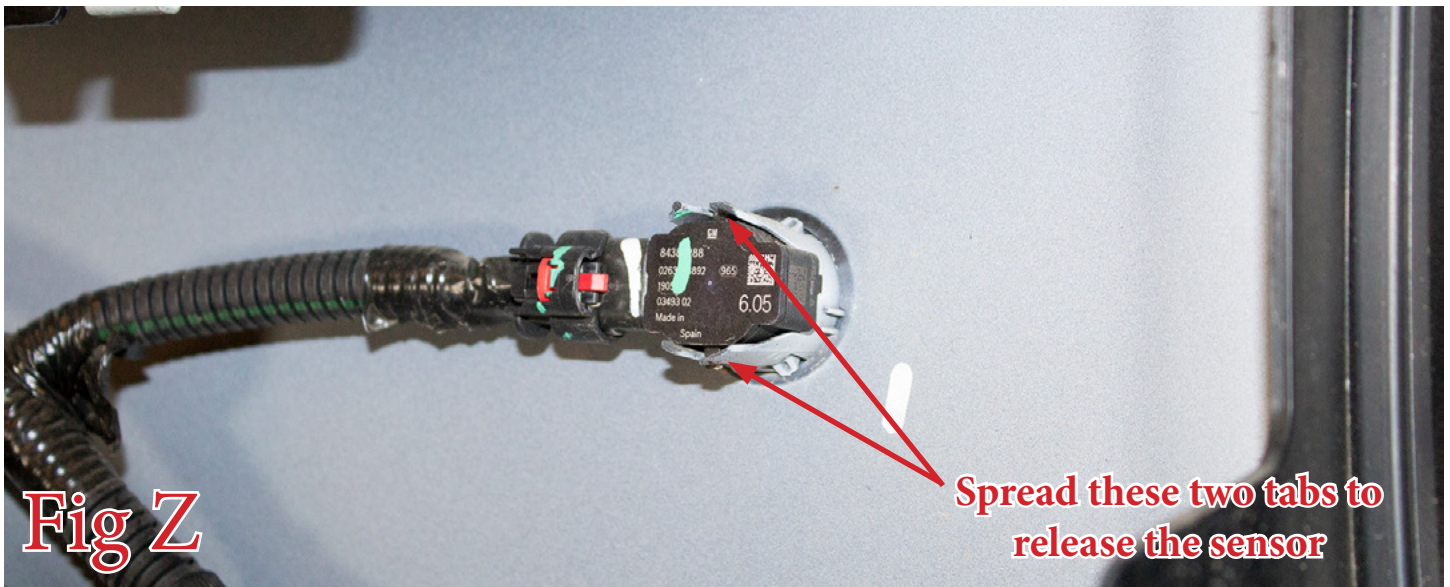


Fig X

26. Use a 13mm Socket to remove the mounting bolts (8 per side) that hold in the inner metal structure of the bumper. Then, remove this structure. (Fig Y)



27. Remove the parking sensors from their mounting rings. Do this by spreading the two tabs on the back side of the mounting rings and pushing the sensors out the back of the rings. You can leave the sensors plugged into the harness. **Make sure to keep track of what position/orientation the sensors were mounted in so you can keep the same position/orientation on your new bumper.** (Fig Z)



28. Remove the sensor mounting rings from the bumper. Do this by pressing in the tabs on the back side of the rings and pushing the rings out the front side of the bumper. **Make sure to keep track of the position/orientation that these came off the OEM bumper so they can be reinstalled on your new bumper in the same position/orientation.** (Fig AA)



29. Release the series of clips holding the harness to the bumper. Then remove the parking sensor/fog light harness from the bumper. (Fig AB) **Make sure to keep track of the position this was mounted on the OEM bumper so it can be mounted on your new bumper in the same position.**

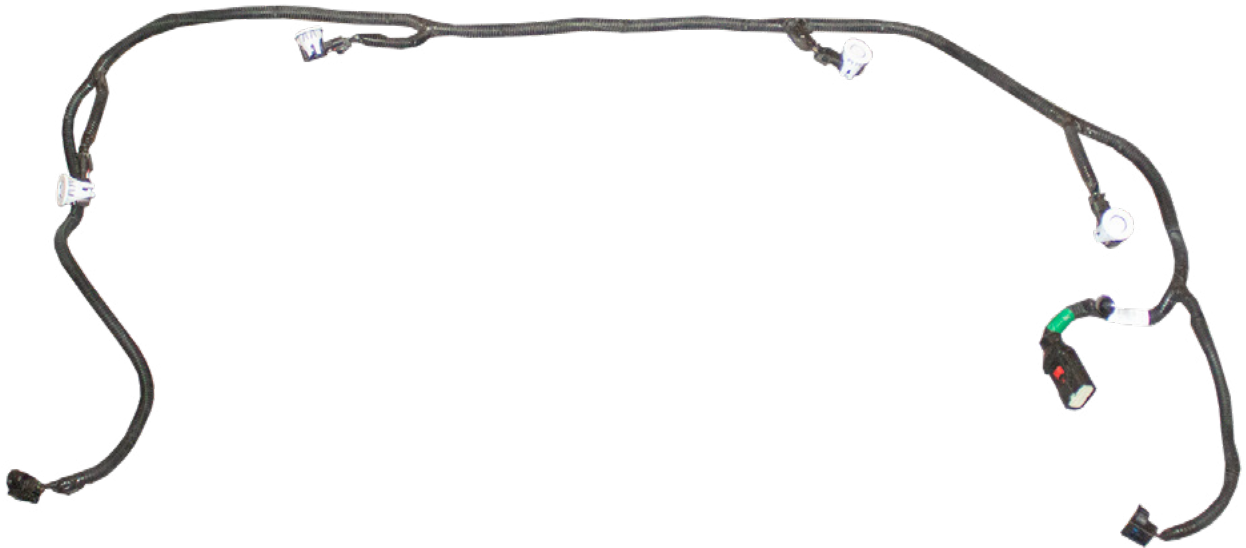


Fig AB

Installation:

30. Follow this step if you are installing dual light bars. There are three different sets of light tabs with this bumper. Pick the correct tab for your light bar setup (see below). Then, loosely set the tabs in place on the bumper, using the supplied 3/8" Black Button Head Bolts (x4), 3/8" Black Washers (x4), and 3/8" Black Lock Nuts (x4). Dual 40" Tabs will use the outer-most set of holes. Dual 30" Tabs will use the next set of holes inward. With the tabs loosely in place, install the light bars using the light manufacturer's provided hardware. With everything loosely installed, torque the supplied 3/8" hardware to 30 foot pounds. Torque the light manufacturer's hardware to their torque spec. Finally, follow the light manufacturer's guide for wiring information. (Fig AC)

BHD1 - 30" Light Bars (*Rigid or Baja*)

BHD2 - Dual 40" Arc (*Baja Designs*)

BHD3 - Dual 40" RDS (*Rigid*)

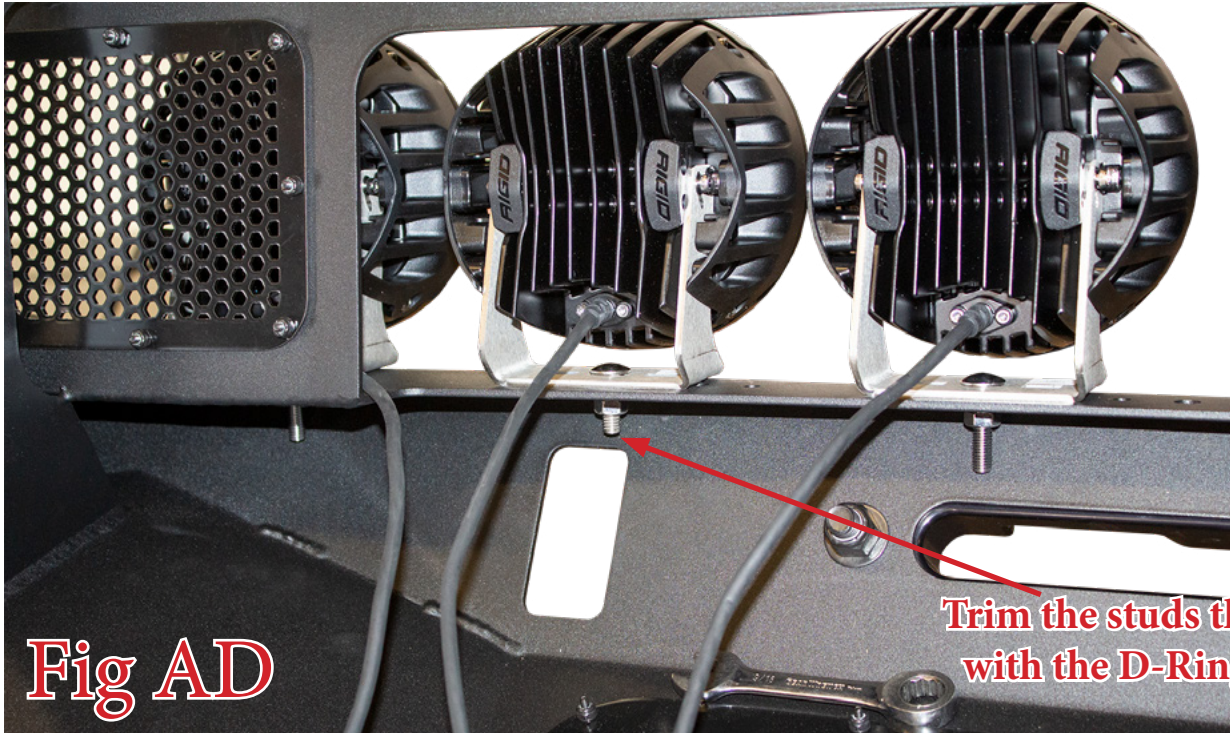
Use this set of holes for dual 30" light tabs

Use this set of holes for dual 40" light tabs



Fig AC

31. If you are using rounds lights, follow this step. Use the light manufacturer's supplied hardware to mount your lights to your new bumper. For Rigid 360 series lights ONLY, two of the light studs will interfere with the opening for the D-Rings. These two studs will need to be cut shorter using a cutoff wheel or something similar. (Fig AD)



Trim the studs that interfere with the D-Ring openings

Fig AD

32. Install the Parking Sensor Mounting Rings onto your new bumper. Install them in the same position/orientation as they came off the OEM bumper. If they do not fully click into their holes, you will have to trim back the tabs that hold them in place to account for the thicker material of your new bumper. Do this little at a time, so you don't go too far. (Fig AE)

You may have to file these surfaces back a little.

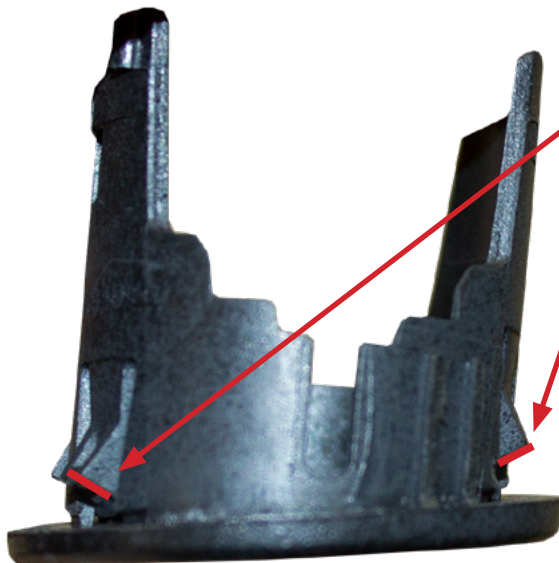


Fig AE

33. Install the parking sensors into their mounting rings. Position the harness as you are installing the parking sensors. Use the slots cut into the top hoop of the bumper as zip-tie points. **Make sure the sensors/harness are installed in the same position/orientation as they came off the OEM bumper.** (Fig AF)

Use these slots to secure the bumper harness

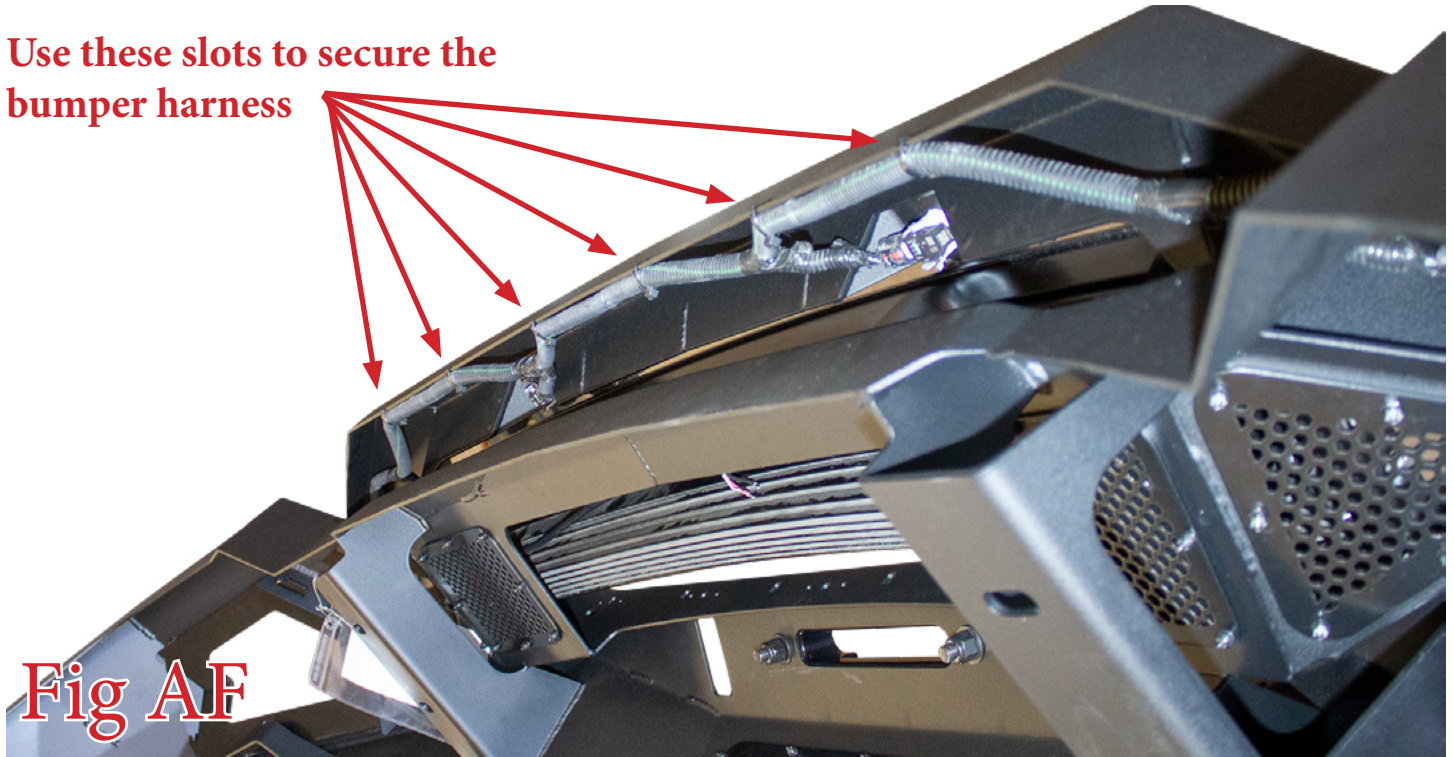


Fig AF

34. Find the supplied Winch Plate. Set the plate in place on the vehicle. Use the supplied M10 Bolts (x4) and M10 Washers (x4) secure it to the truck. Torque these bolts to 40 foot pounds. (Fig AG)

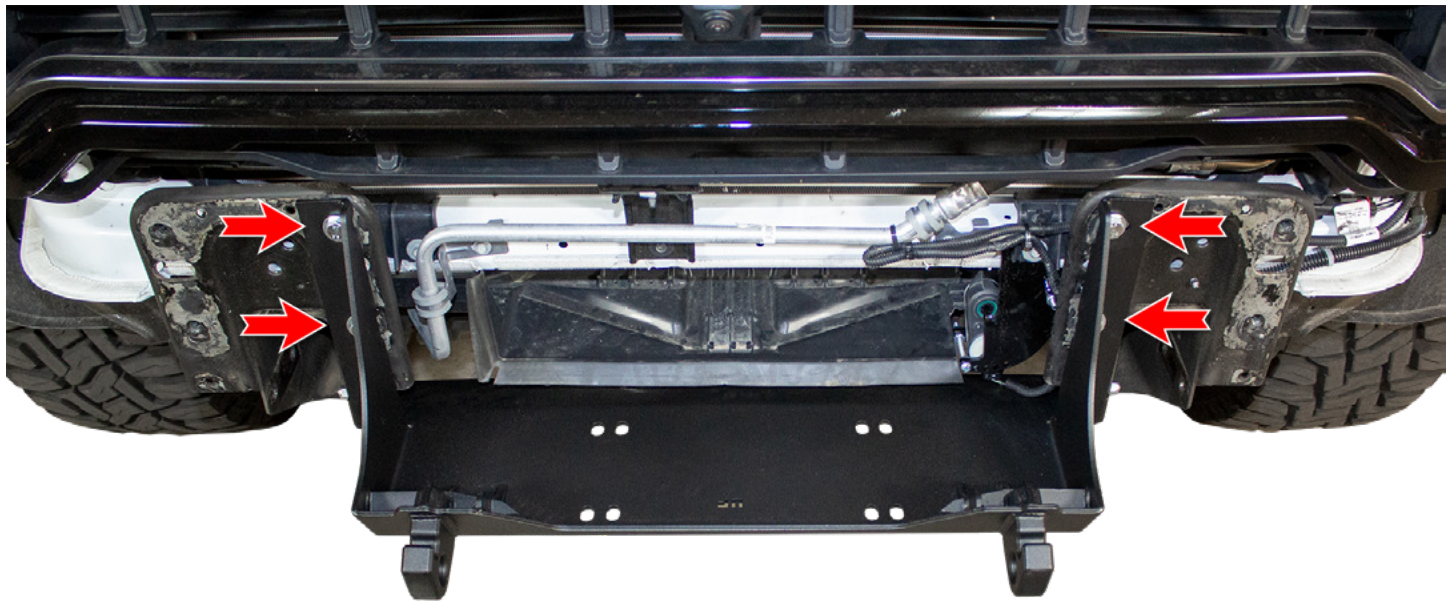


Fig AG

35. Install the supplied 1/2" Hex Head Bolts (2 per side), 1/2" Washers (4 per side), and 1/2" Lock Nuts (2 per side) in the remaining mounting holes of the winch plate. (Fig AH)

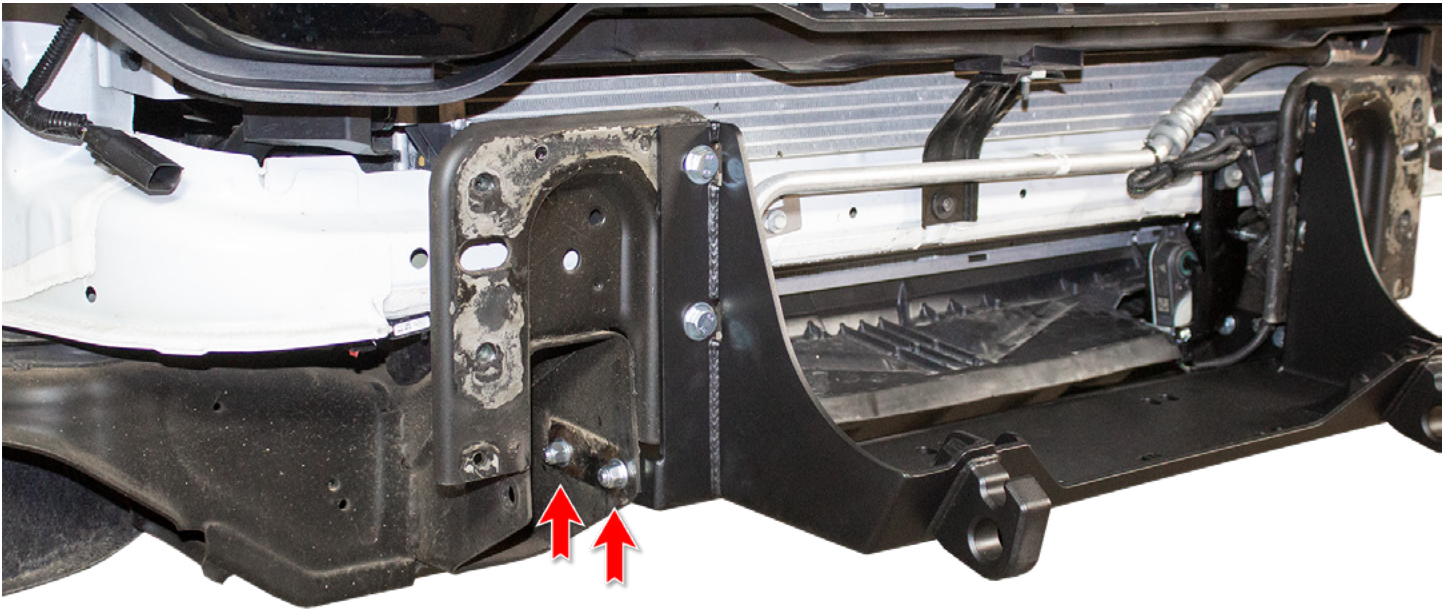


Fig AH

36. Install your winch onto the winch plate. Follow the winch manufacturer's installation guide for mounting/wiring information. **Install the winch fairlead onto your bumper at this time as well.** (Fig AI)

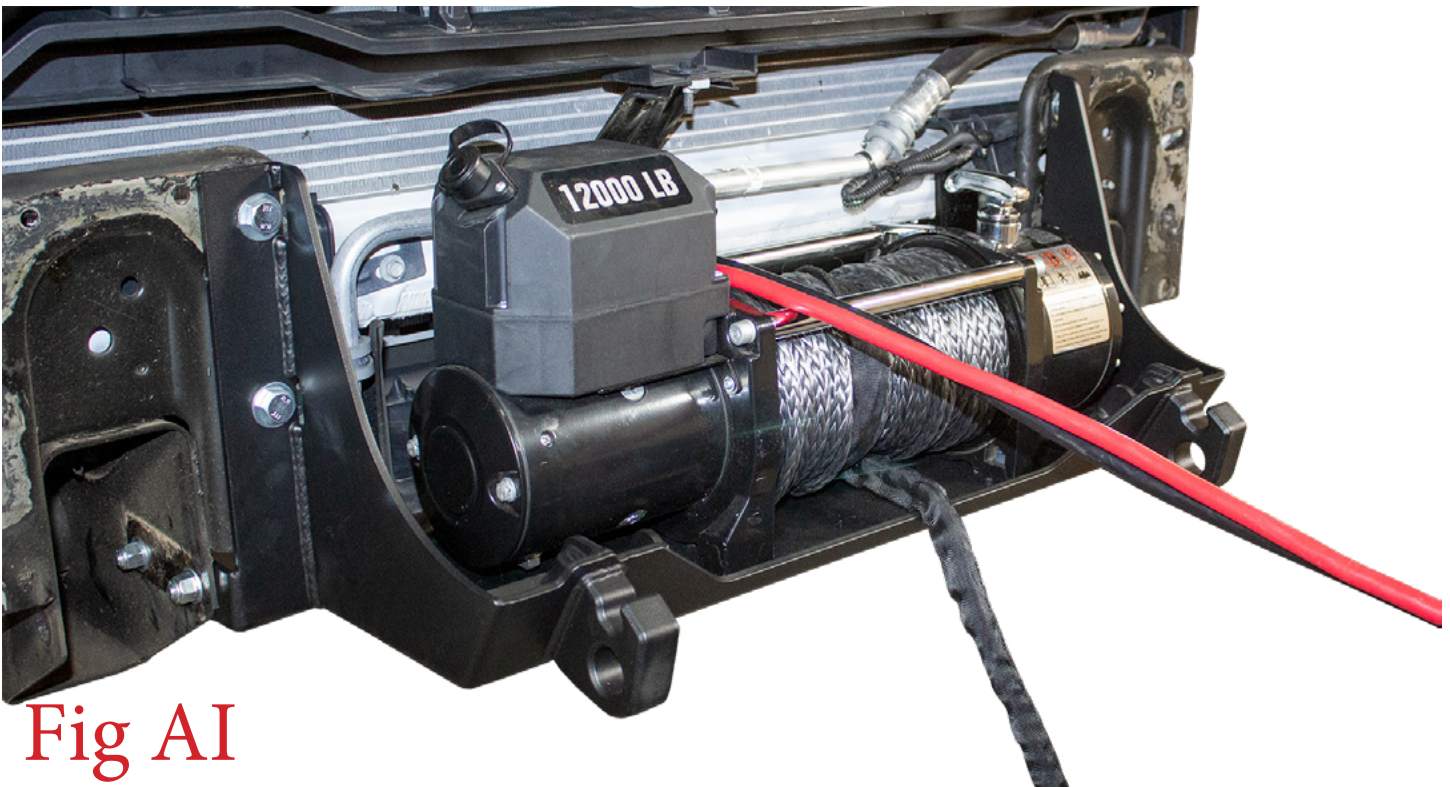
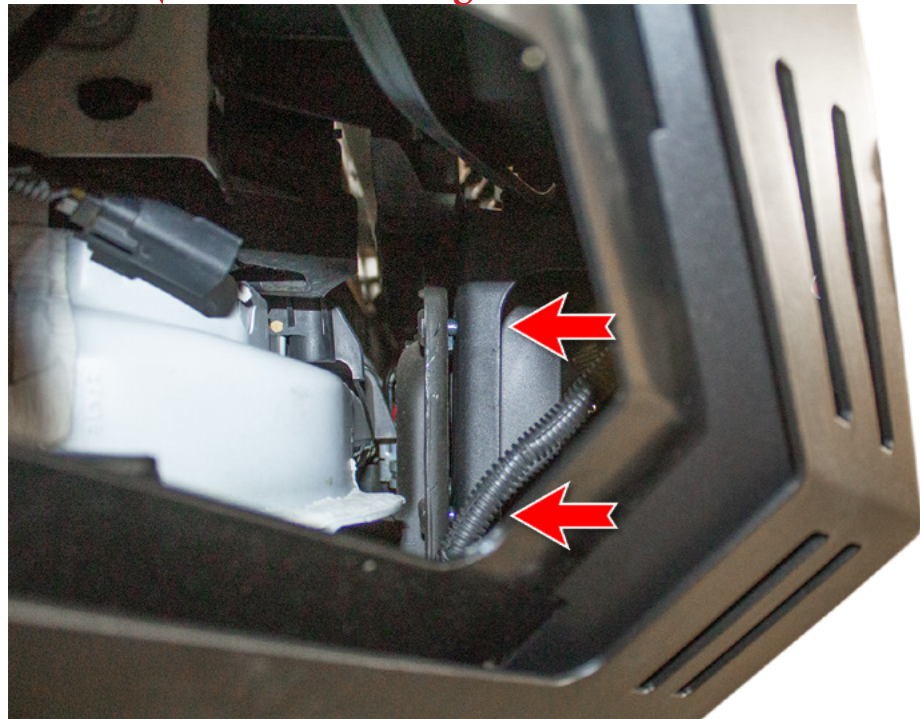


Fig AI

37. Set the bumper in place on the vehicle. Use the supplied M10 bolts (x4) and M10 Washers (x4) to secure it. You will have to reach your hand in through the side panel to start the bolts. Once the bolts are all loosely installed, align the bumper so it is straight in relation to the grille/valances, then tighten the bolts to 40 foot pounds. (Fig AJ)



View Looking Into the Side Panel



38. Install any cube lights you have for the side panels. Follow the light manufacturer's guide for mounting/wiring information. (Fig AK)



Fig AK

39. Use a T-10 Socket to remove the two lowest inner fender liner bolts in each wheel well. (Fig AL)



Fig AL

40. Pull the inner fender liner back to reveal the two bolts holding on the inner liner mounting bracket. Use a 10mm Socket to remove these bolts. Then, remove that bracket from the vehicle. (Fig AM)



Fig AM

41. Use a utility knife, or something similar, to trim the inner fender liners to preference. We suggest following a line similar to what is shown in (Fig AN).



Fig AN

42. Stand back and enjoy your new ADD Bomber™ HD Front Bumper.
43. Check and re-tighten, if needed, all mounting bolts after 100 miles and periodically thereafter.

