

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 Center
1 Additional Hour to Wire Side 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 | - 9/16" Socket & Wrench | - 7/32" Allen Wrench/Socket |
| - 13mm Socket | - 15mm Socket | - 21mm Socket |
| - Sawzall or Something Similar | - Black Paint | - T30 Torx Socket |

Included in Kit:

- | | |
|--|---|
| 6 - Hex Head Bolts (3/8"-16 x 1") | 6 - Fender Washers (3/8") |
| 6 - U- Nuts (3/8"-16) | 2 - Black Button Head Bolts (3/8"-16 x 1") |
| 2 - Fender Washers (3/8") | 2 - Black Nylon Lock Nuts (3/8"-16) |
| 1 - Universal Light Mount Kit | 2 - Light Mount Tabs (For Upper Light) |
| 6 - Parking Sensor Plugs & Grommets | |

Removal:

1. From underneath the vehicle, unplug the main bumper harness connector. This connector can be found along the top side of the passenger side frame rail. (Fig A)

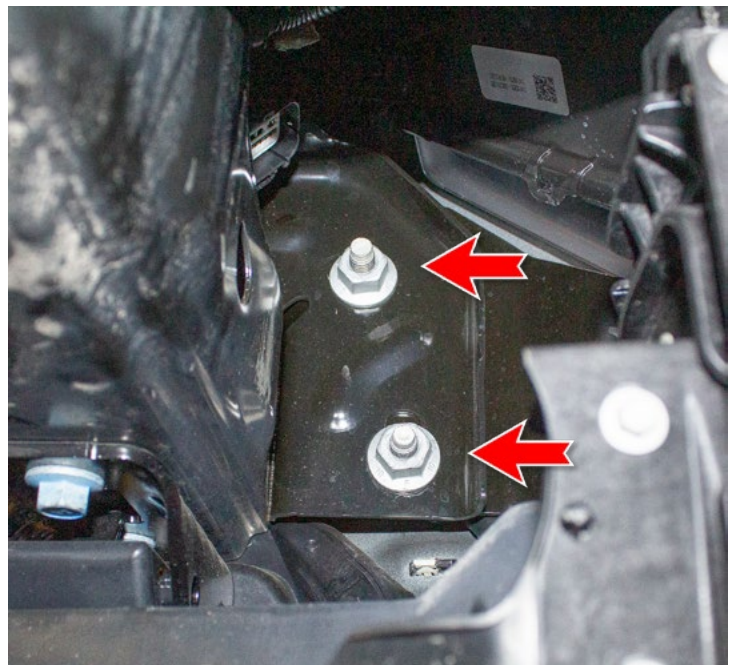


Fig A

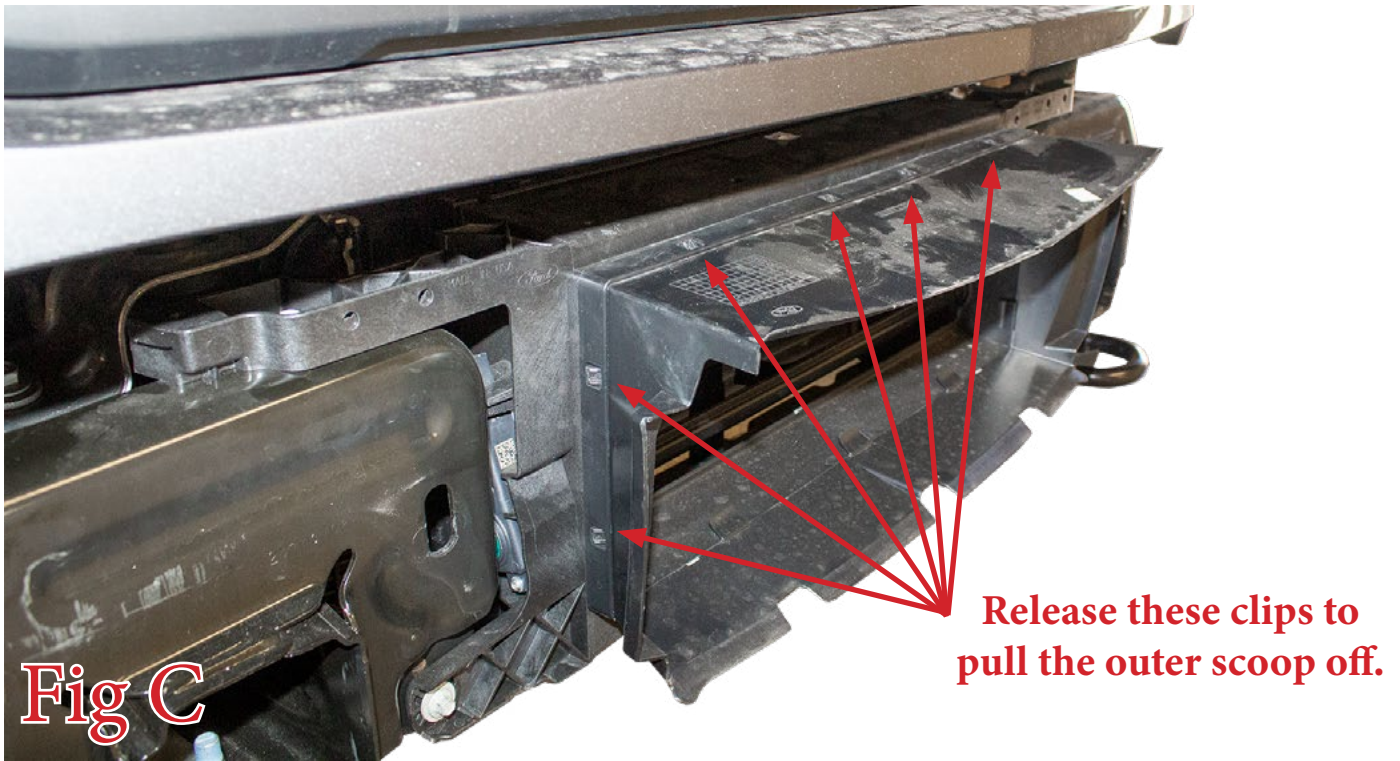
2. From underneath the vehicle, along the back of the frame horns, use a 21mm Socket to remove the 3 mounting bolts (per side) that hold on the OEM front bumper. Then, remove the bumper from the vehicle. As you are removing the bumper, you will have to unplug the lower shutter motor and release the three clips that hold the harness to the lower shutter assembly (for EcoBoost only). (Fig B)



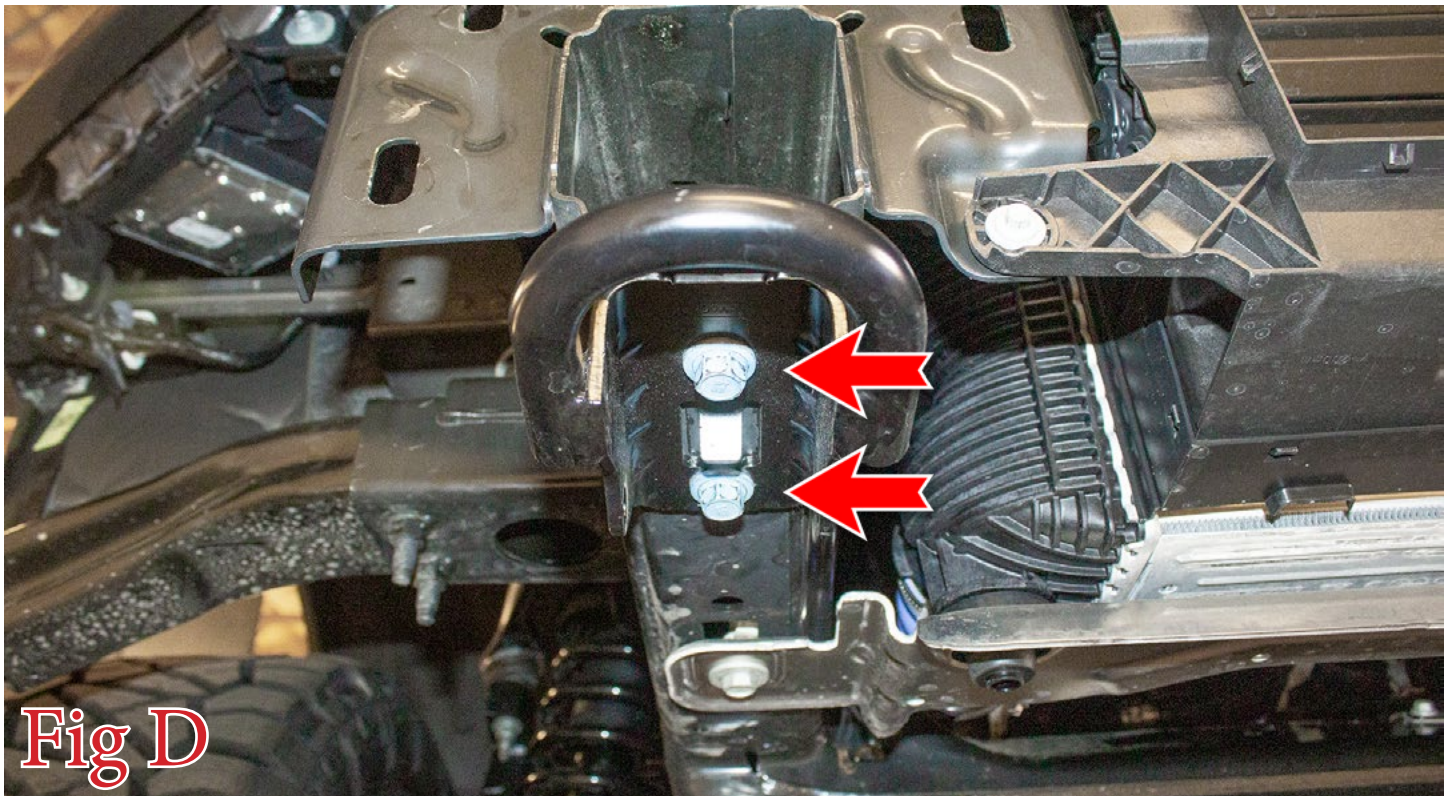
Fig B



3. Remove the outer scoop from the intercooler shutter assembly. They simply pull off by hand. (Fig C)

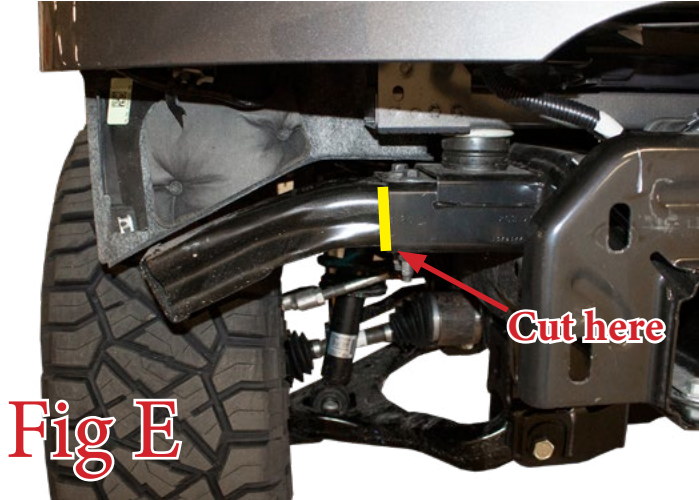


4. Use a 15mm Socket to remove the tow hook mounting bolts (2 per hook). Then, remove the hooks from the vehicle. Save the hooks and hardware for reuse. (Fig D)



5. Use a sawzall or something similar to cut the crash bars in the front section of each wheel well. Make sure to paint over any bare metal when you are finished. (Fig E)

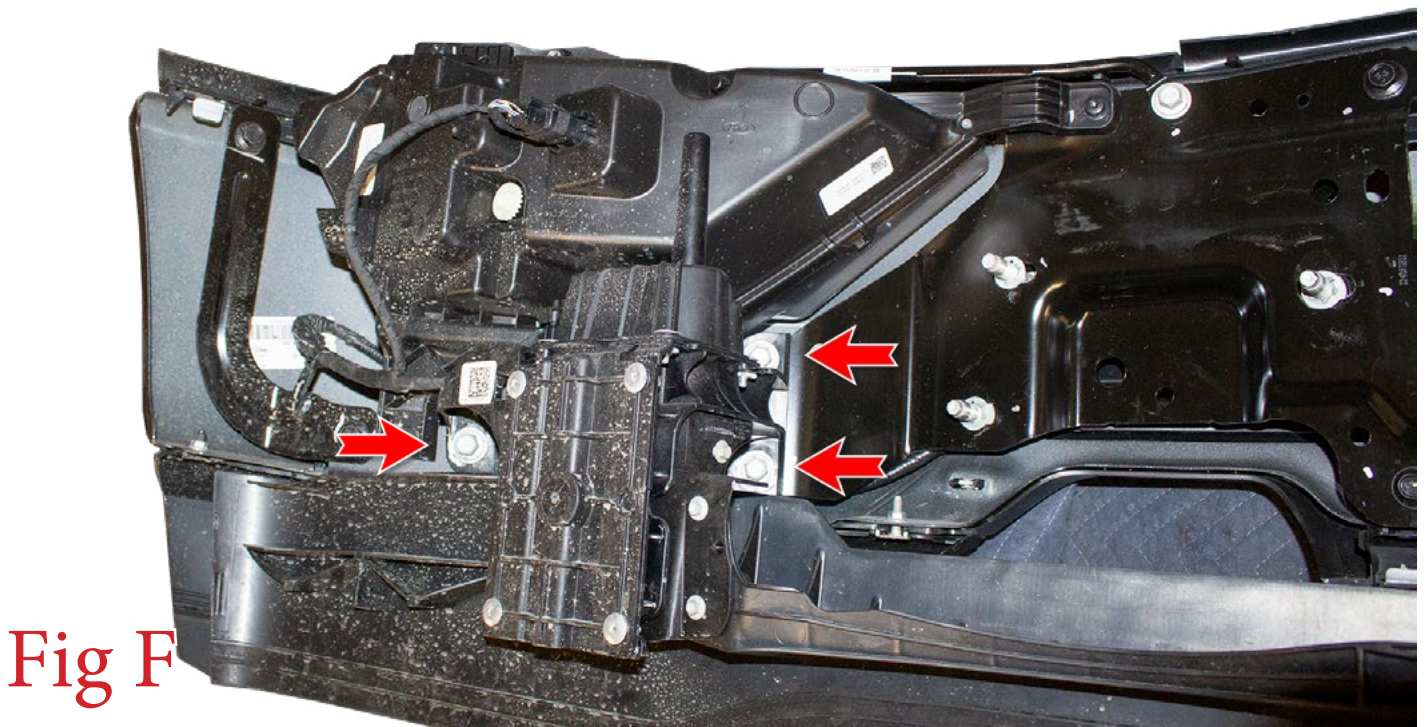
Before



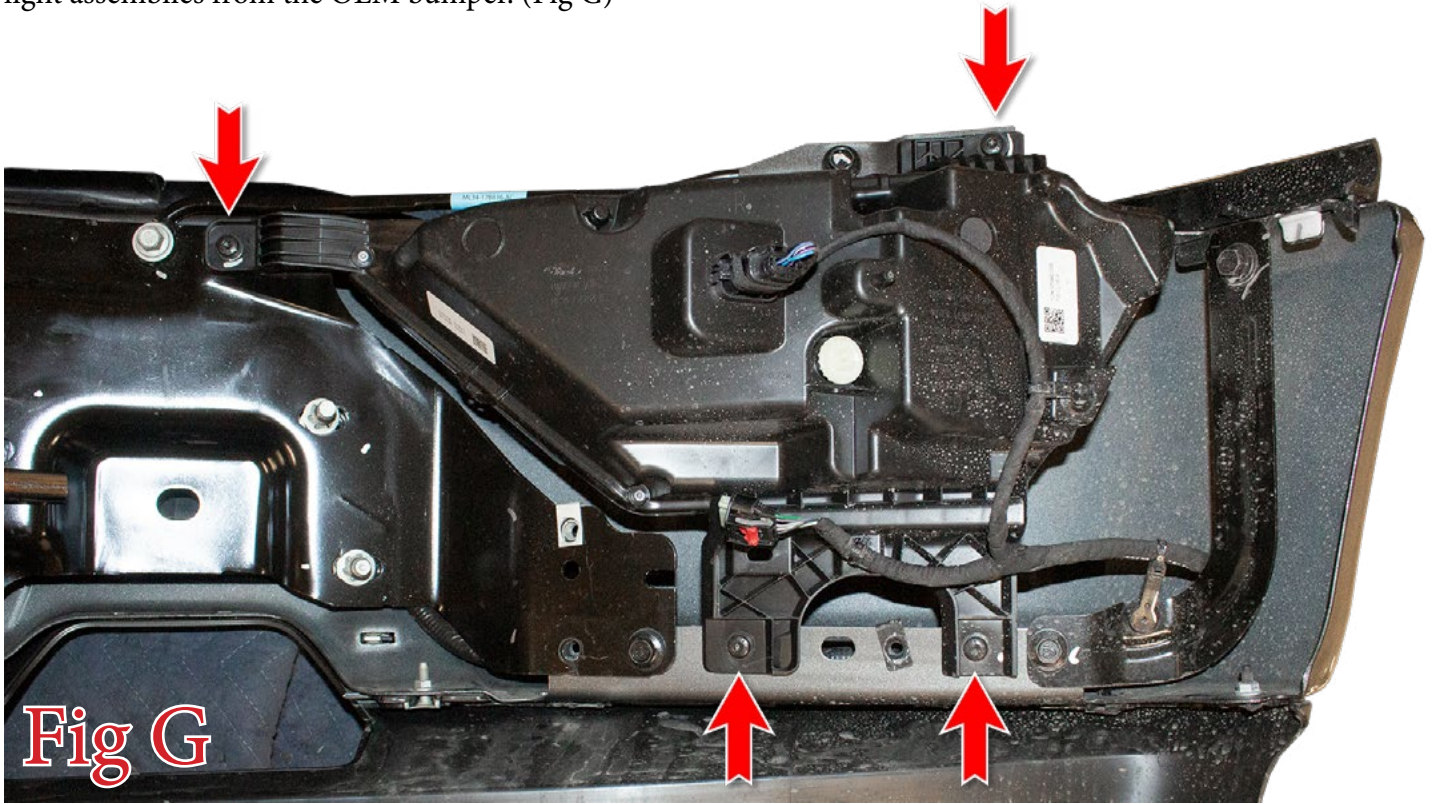
After



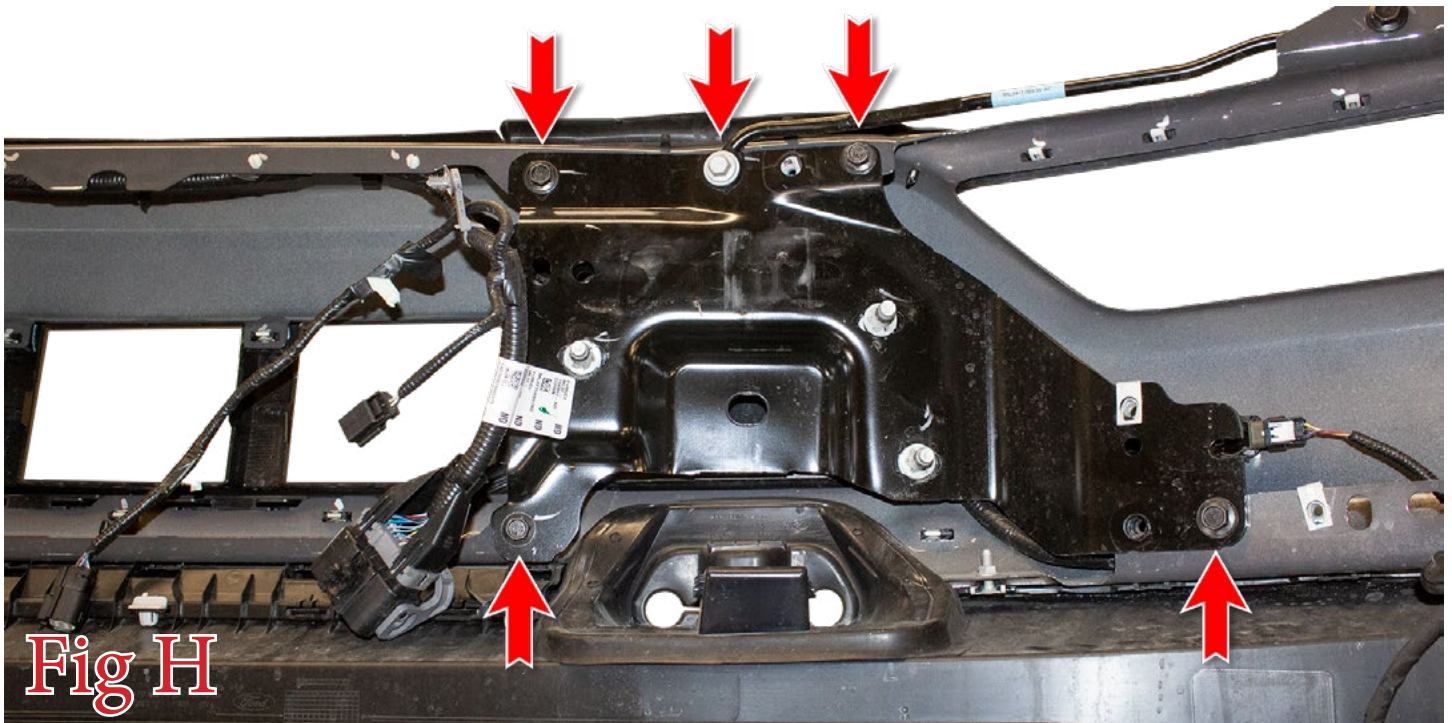
6. Set the OEM bumper on a workbench. Then, use a 13mm Socket to remove the mounting bolts (3 per side) for the lower spoiler system. Once all bolts are removed, remove the lower spoiler. (Fig F)



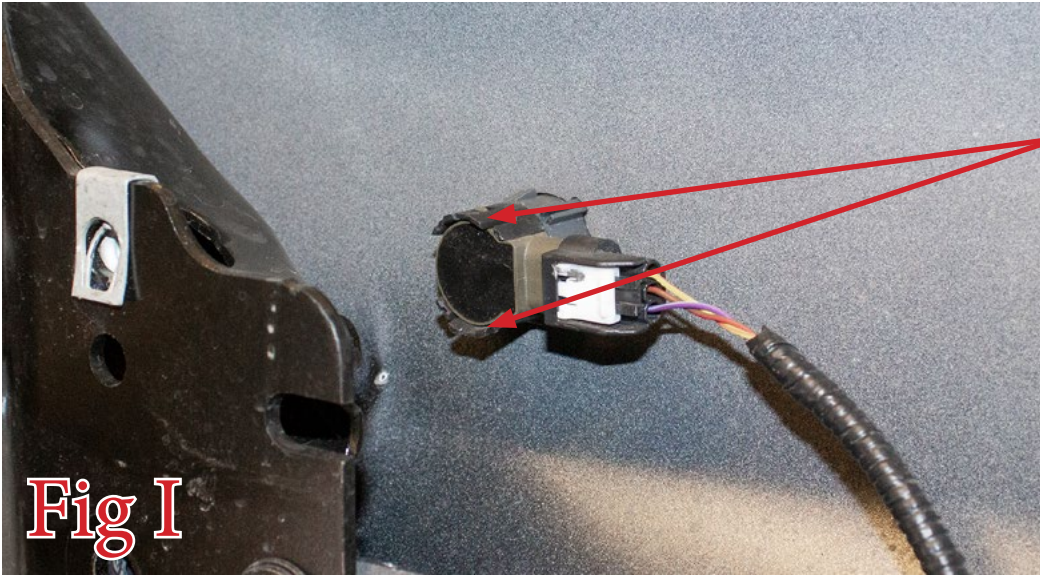
7. Use a T30 Torx Socket to remove the fog light assembly mounting bolts (4 per side). Then, remove the fog light assemblies from the OEM bumper. (Fig G)



8. Using a 13mm Socket, remove the 6 mounting bolts (per side) that hold in the bumper structure. Then, remove those pieces from the bumper. (Fig H)



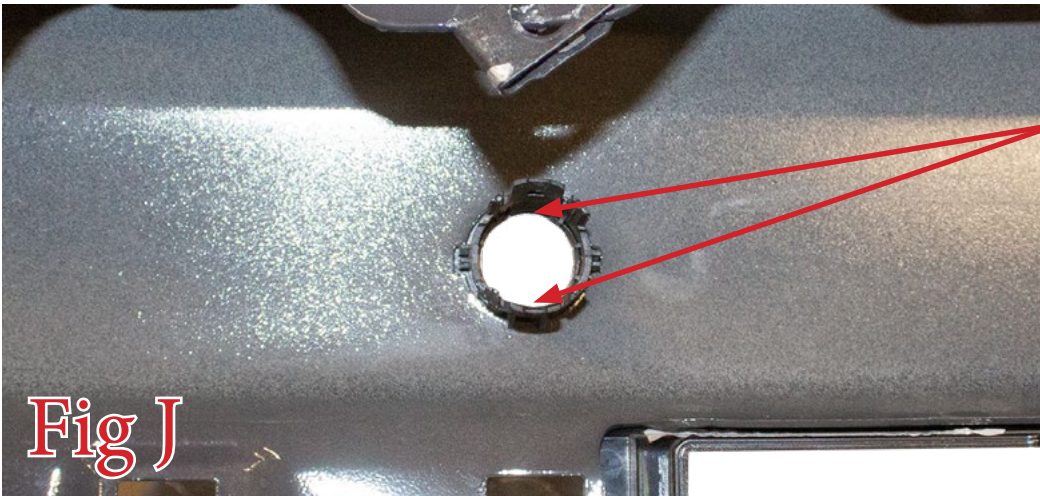
9. Remove the parking sensors from their mounting rings. Do this by spreading the two tabs on the back side of the rings. **Make sure to keep track of what position/orientation they come off the OEM bumper so you can install them on your new bumper in the same position/orientation.** (Fig I)



Spread these two tabs to release the parking sensors from their mounting rings

Fig I

10. Remove the parking sensor mounting rings from the OEM bumper. Do this by pressing in the two tabs along the base on the back side of the mounting rings. **Make sure to keep track of the position/orientation these come off the OEM bumper so you can install them on your new bumper in the same position/orientation.** (Fig J)



Press these two tabs in to release the mounting rings from the bumper.

Fig J

11. Remove the series of plastic clips holding the front bumper harness to the OEM bumper. Then, remove the harness from the bumper.

Installation:

12. If you have an adaptive cruise control module to relocate, now is a good time to do so. For more information, follow our adaptive cruise control relocation bracket install guide, which can be found here; <https://www.addictivedesertdesigns.com/files/install/ADD-2021-F150-ACC-Bracket-Installation-Instructions.pdf>

13. Install the parking sensor mounting rings into their precut holes on your new bumper. Make sure to install them in the same position/orientation as they were on the OEM bumper.

If your sensor rings do not click into place, you may have to trim the mounting tabs to accommodate for the thicker material of your new bumper. (Fig K)

If your truck does not have parking sensors, install the supplied rubber grommets/plastic plugs into the sensor holes.

Before

After

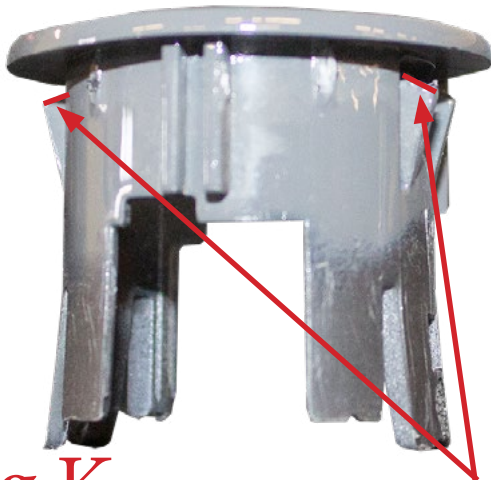


Fig K

Trim Here

14. Install the parking sensors/bumper harness onto your new bumper. Press the parking sensors into their mounting rings until they click into place. Make sure to install them in the same position/orientation as they came off the OEM bumper. (Fig L)



Fig L

15. If you have an upper light for your bumper, install that now. Use the supplied light tabs along with the supplied 3/8" Black Button Head Bolts (x2), 3/8" Black Washers (x2) and 3/8" Black Lock Nuts (x2). (Fig M)



16. Install the center light onto your bumper. To do this, use our universal light mount kit. (Fig N) Instructions for that kit can be found here;
<https://www.addictivedesertdesigns.com/files/install/ADD-Universal-Light-Mount-Kit-Installation-Instructions.pdf>



17. Install your side lights. To do this, follow the light manufacturer's guide and use the light manufacturer's mounting hardware. (Fig O)
Follow the light manufacturer's guide for all wiring information.



Fig O

18. Install the supplied U-Nuts (3 per side) onto your new bumper as shown in (Fig P).

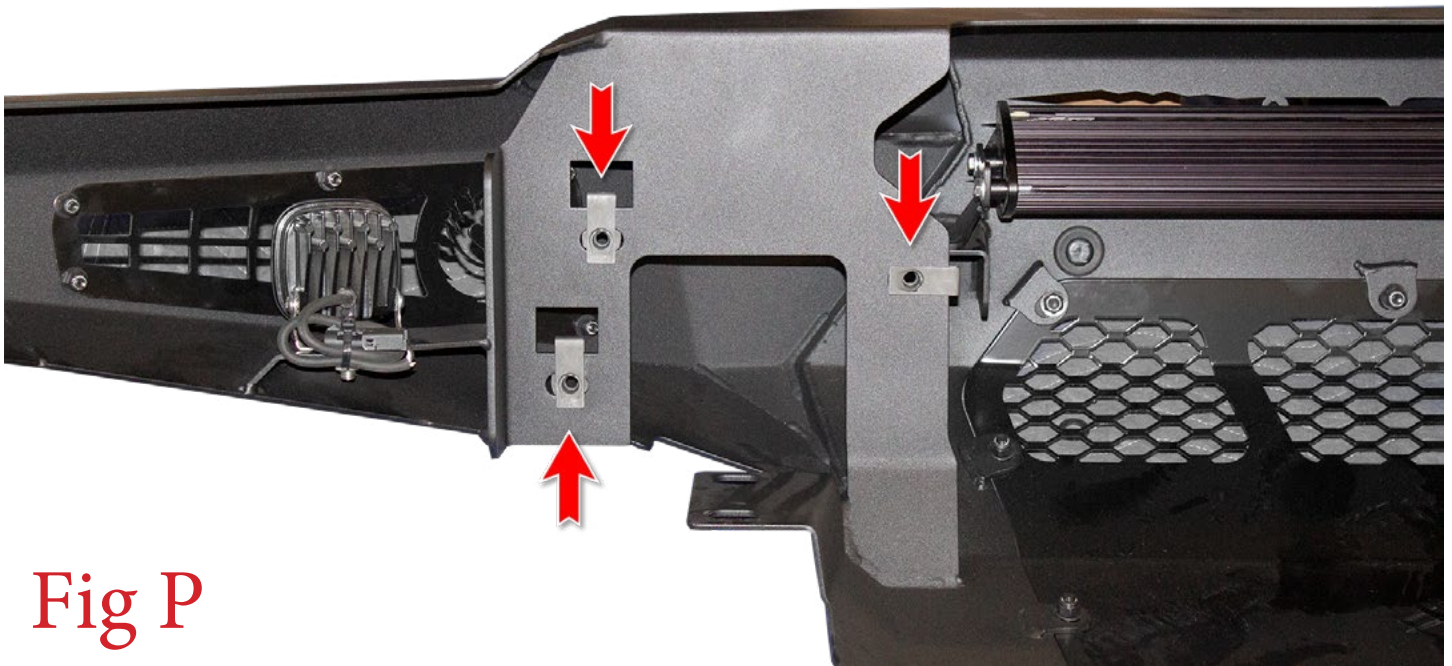


Fig P

19. Place the nut plate for the OEM tow hooks (from Step 4) into the frame to be used later. You will not be able to get this in there after the bumper is set in place. (Fig Q)

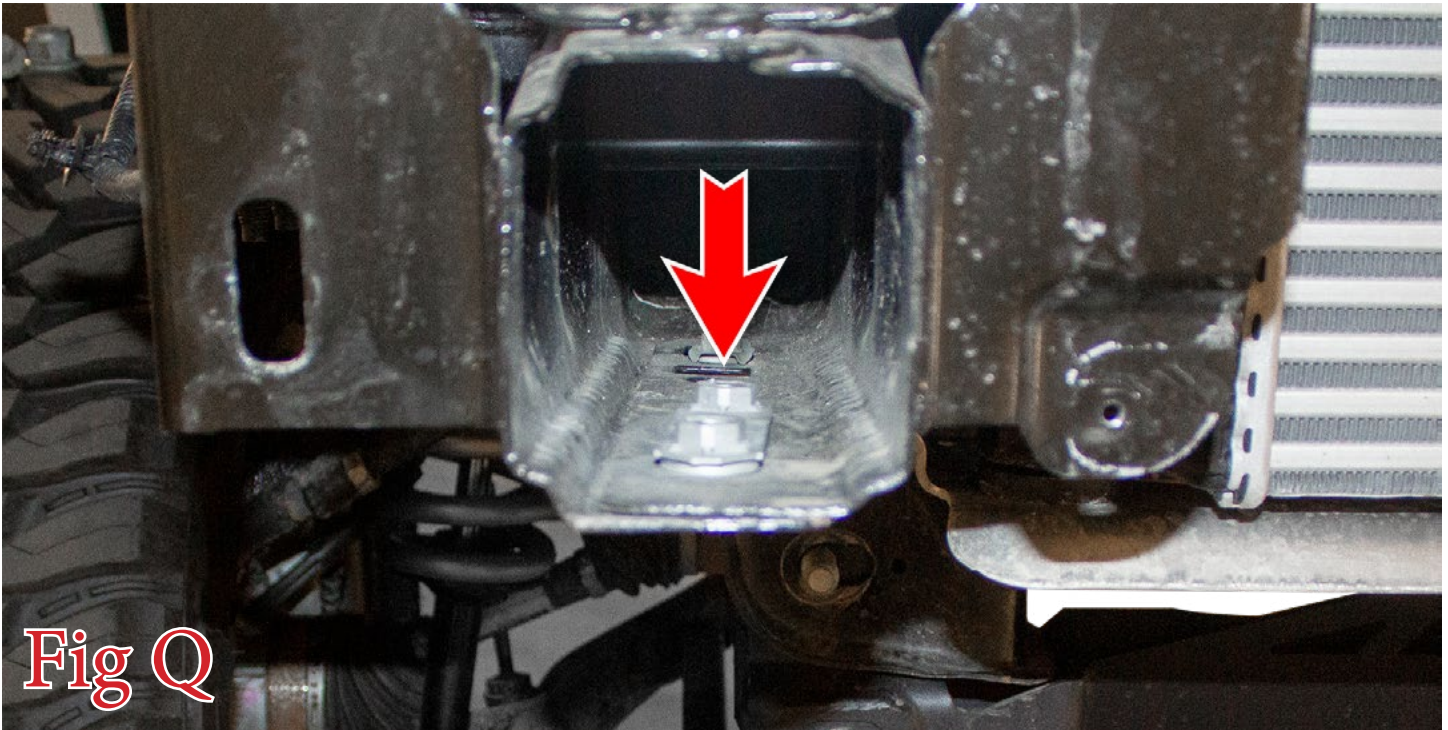


Fig Q

20. Set the bumper in place on the vehicle. As you are installing the bumper make sure to plug in the connector from Step 2. Loosely install the supplied 3/8" Bolts (x6) and 3/8" Fender Washers (x6). (Fig R)

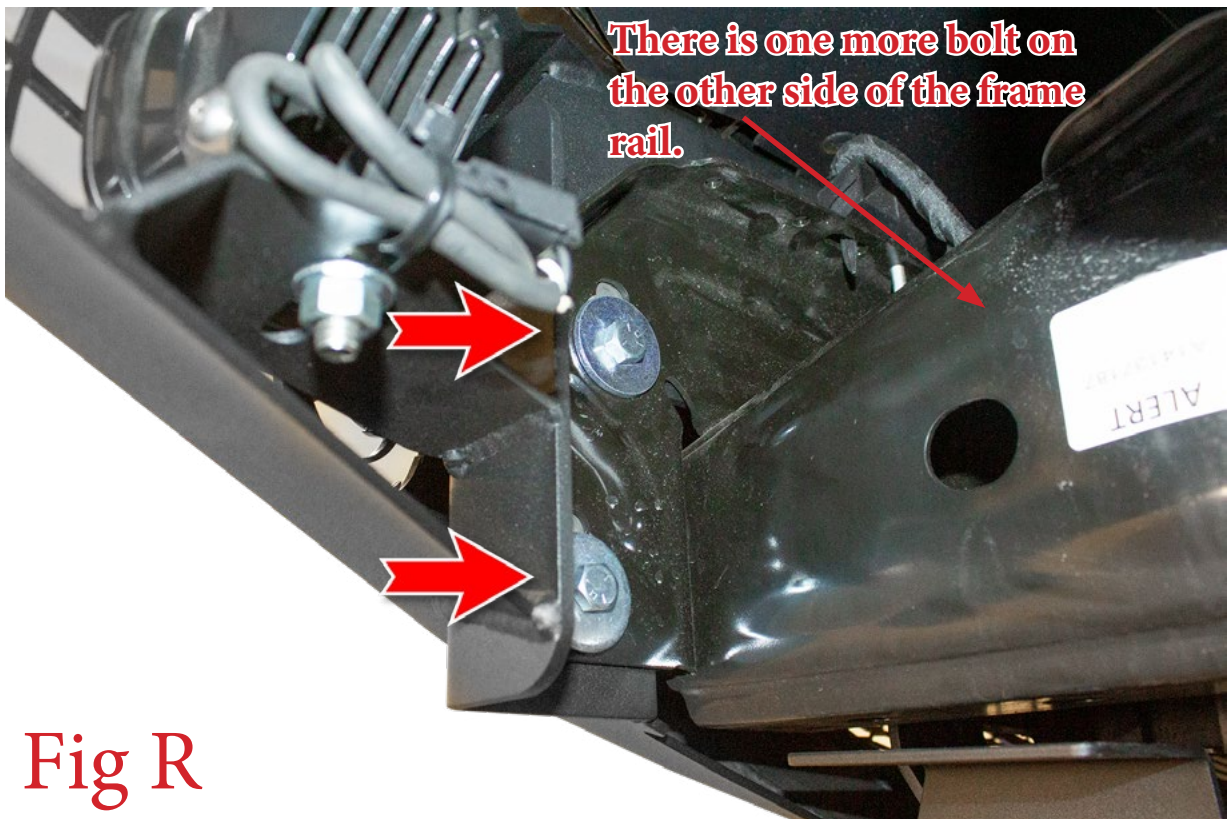


Fig R

21. Set the tow hooks in place and use the hardware from Step 4 to secure the hooks to the vehicle. Make sure the sandwich the bumper tabs between the hooks and the frame. (Fig S) **Leave these bolts loose for now.**



Fig S

- 22. Align the bumper so it is centered left to right and straight in relation to the vehicle's valance. Then, tighten the bolts from Step 20 to 30 foot pounds. Tighten the bolts from Step 21 to OEM torque specs.
- 23. Plug in the connector from Step 1.
- 24. Stand back and enjoy your new ADD HoneyBadger™ Front Bumper.
- 25. Check and re-tighten, if needed, all mounting bolts after 100 miles and periodically thereafter.

