

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 Lights

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

You will need the following tools:

- | | | |
|-----------------------------|-----------------|----------------|
| - Ratchet | - 8mm Socket | - 11mm Socket |
| - 13mm Socket | - 15mm Socket | - 21mm Socket |
| - 7/32" Allen Wrench/Socket | - 9/16" Socket | - 9/16" Wrench |
| - 3/4" Wrench | - Angle Grinder | |

Included in Kit:

- | | |
|--|--|
| 4 - Button Head Bolts (1/2"-13 x 1 1/2") | 4 - Flat Washers (1/2") |
| 4 - Nylon Lock Nuts (1/2"-13) | 2 - Hex Head Bolts (3/8"-16 x 1") |
| 2 - Fender Washers (3/8") | 2 - Long U-Nuts (3/8"-16) |
| 4 - Hex Head Bolts (3/8"-16 x 1 1/2") | 4 - Flat Washers (3/8") |
| 4 - Short U-Nuts (3/8"-16) | 4 - Black Button Head Bolts (3/8"-16 x 1") |
| 4 - Black Washers (3/8") | 4 - Black Nylon Lock Nuts (3/8"-16) |
| 2 - Skid Plate Spacer | 2 - Light Mount Tabs |

****If you plan to keep your adaptive cruise control function, you must install our ACC relocation bracket. Instructions can be found here****

<https://www.addictivedesertdesigns.com/files/install/ADD-2015-2017-F150-2017-Current-Raptor-ACC-Bracket-Installation-Instructions.pdf>

Removal:

1. Using 13mm and 15mm Sockets, remove the skid plate bolts (x6). Then, remove the skid plate from the truck. (Fig A)



Fig A

2. Remove the metal spacer that the bottom two skid plate bolts go through. (Fig B)

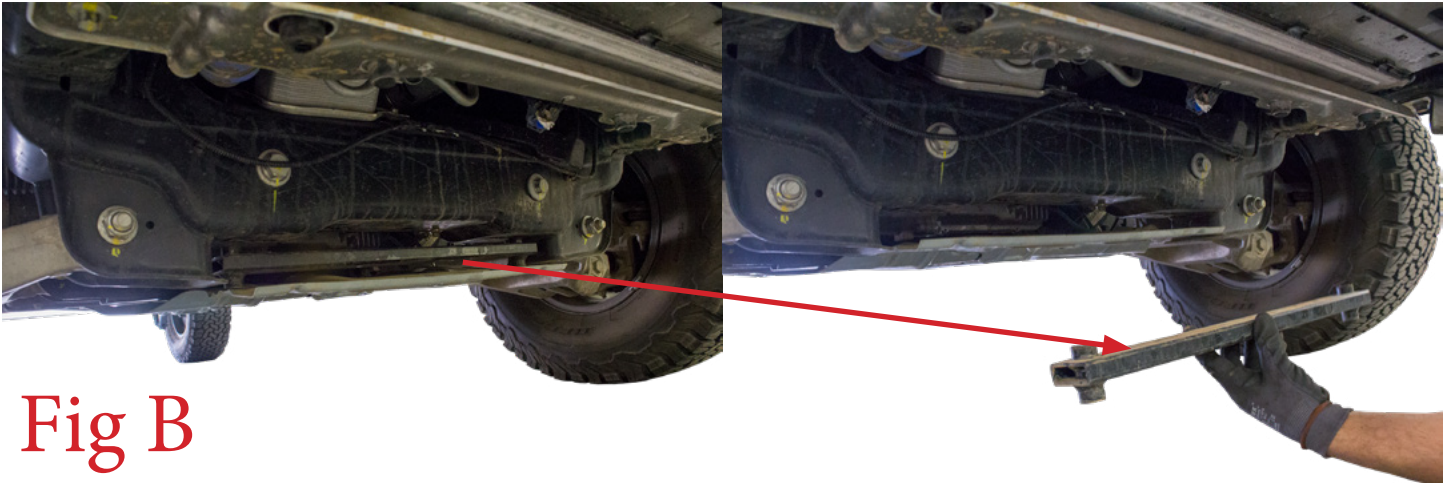


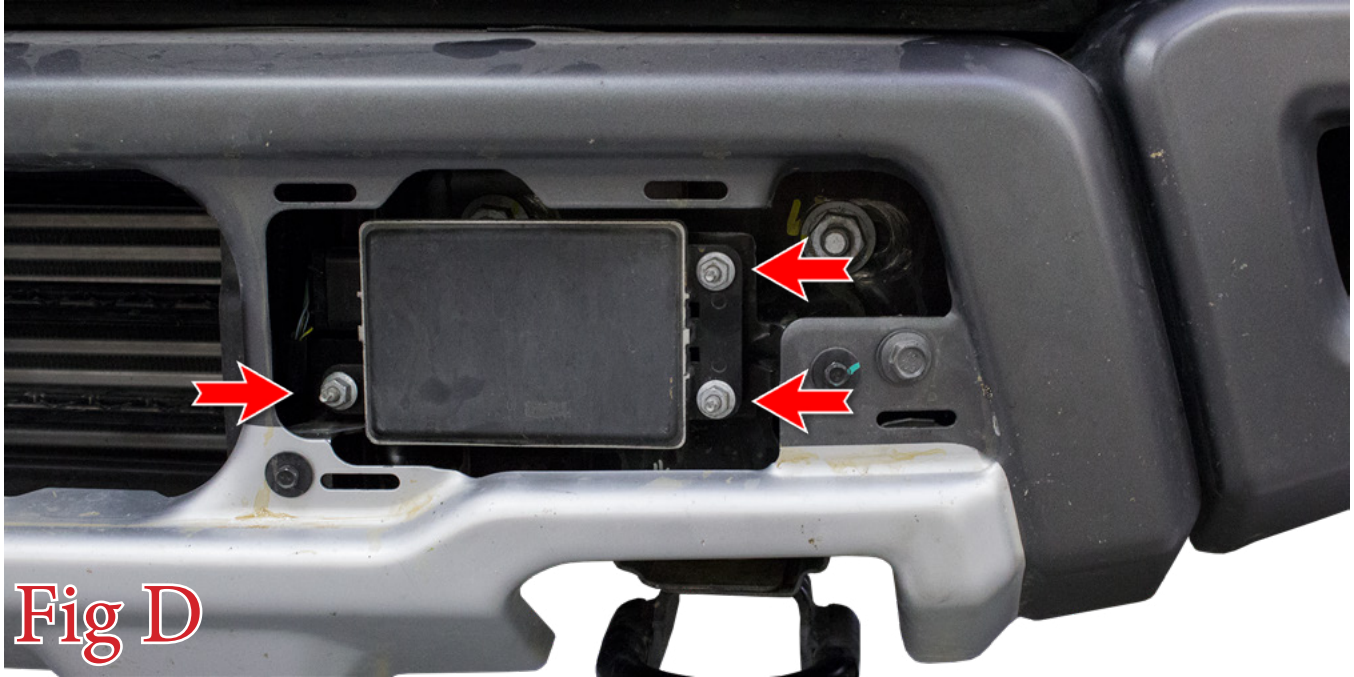
Fig B

3. Carefully pull the front plastic piece off of the bumper. There are no tools required for this step, it simply pulls off by hand. (Fig C)

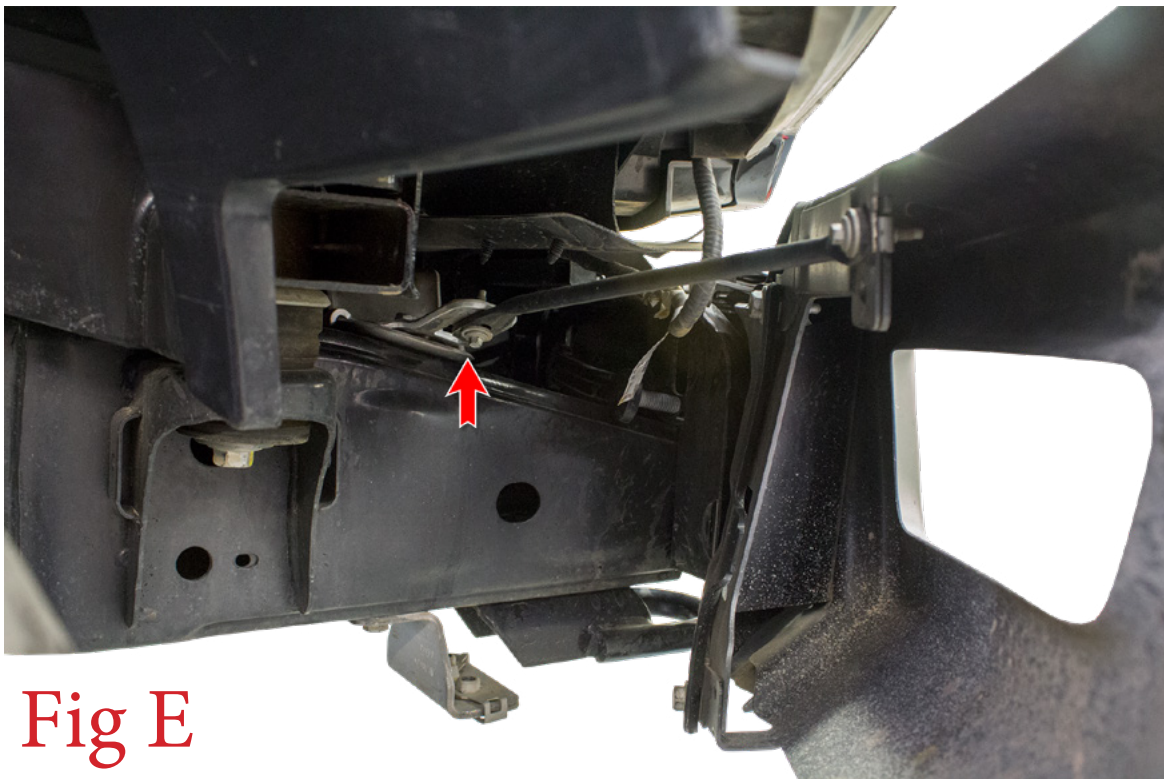


Fig C

4. Remove your Adaptive Cruise Control Module. Using an 11mm Socket, remove the three nuts holding the Module on. Then, use an E6 External Torx Socket to remove the three studs holding the module on. Then, unplug and remove the module from the truck. Follow our ACC Bracket instructions (link at the beginning of this document) if you are relocation your adaptive cruise control module. (Fig D)



5. Use an 8mm Socket to remove the bolt that holds on the bumper side support bar. Repeat this step on the other side of the vehicle. (Fig E)



6. Use a 21mm Socket to remove the nuts that hold on the front bumper. There are three per side. Two of the nuts (per side) face the front (they were hidden behind the plastic piece you removed in Step 3). One of the nuts (per side) faces the rear of the vehicle and is accessible from underneath the truck. (Fig F)

View From the Front

View From the Rear



7. Remove the bumper from the truck. As you are removing the bumper, release the plastic clips that hold the rubber shroud to the top side of the bumper. (Fig G)



Fig G

8. Remove each of the skid plate mounting brackets by removing the bolt (13mm) that holds them on. There is one bolt per bracket. (Fig H)



Fig H

9. Using an 8mm Socket, remove the four mounting bolts for the intercooler scoop. Then, remove that scoop from the vehicle. As you remove the scoop, unplug the intercooler shutter motor. (Fig I)

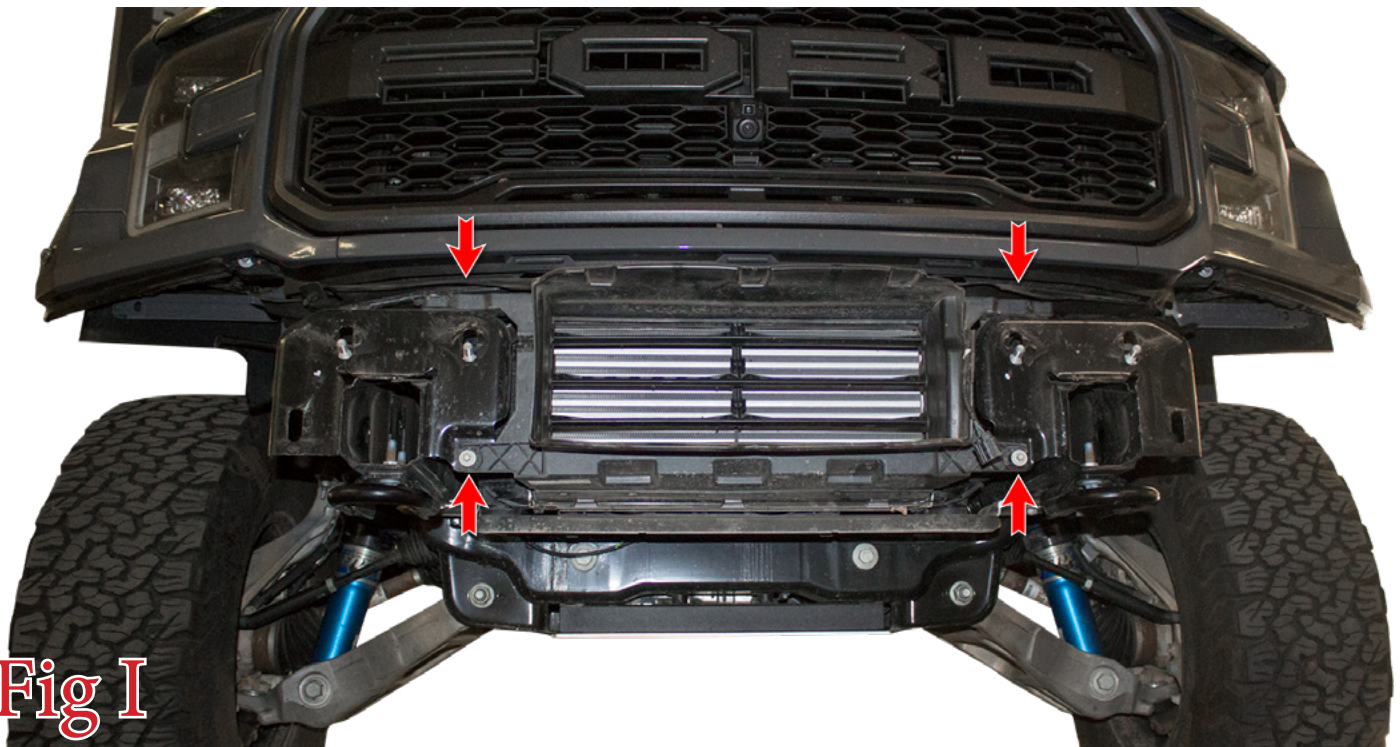


Fig I

10. Release the clip holding the intercooler shutter motor to the scoop assembly. Then, remove that motor from the assembly. (Fig J)

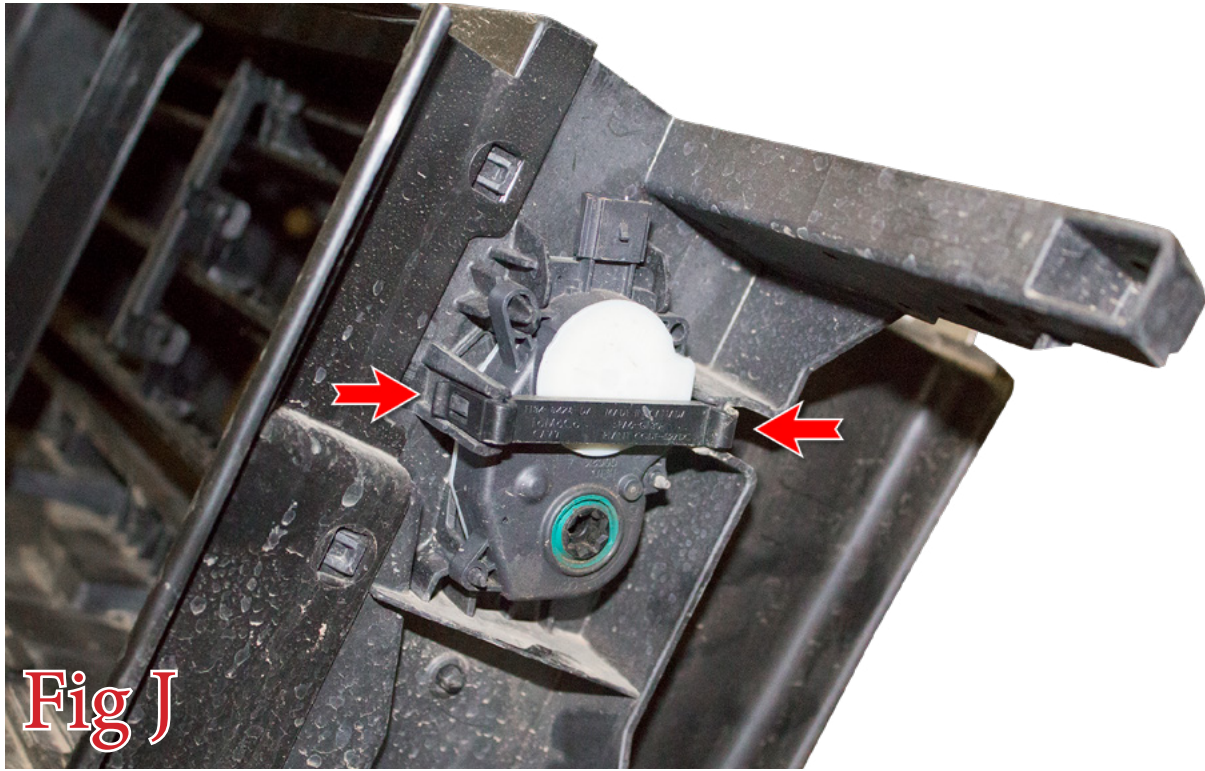


Fig J

11. Plug the intercooler shutter motor back into the harness on the vehicle and zip tie it up and out of the way. (Fig K)

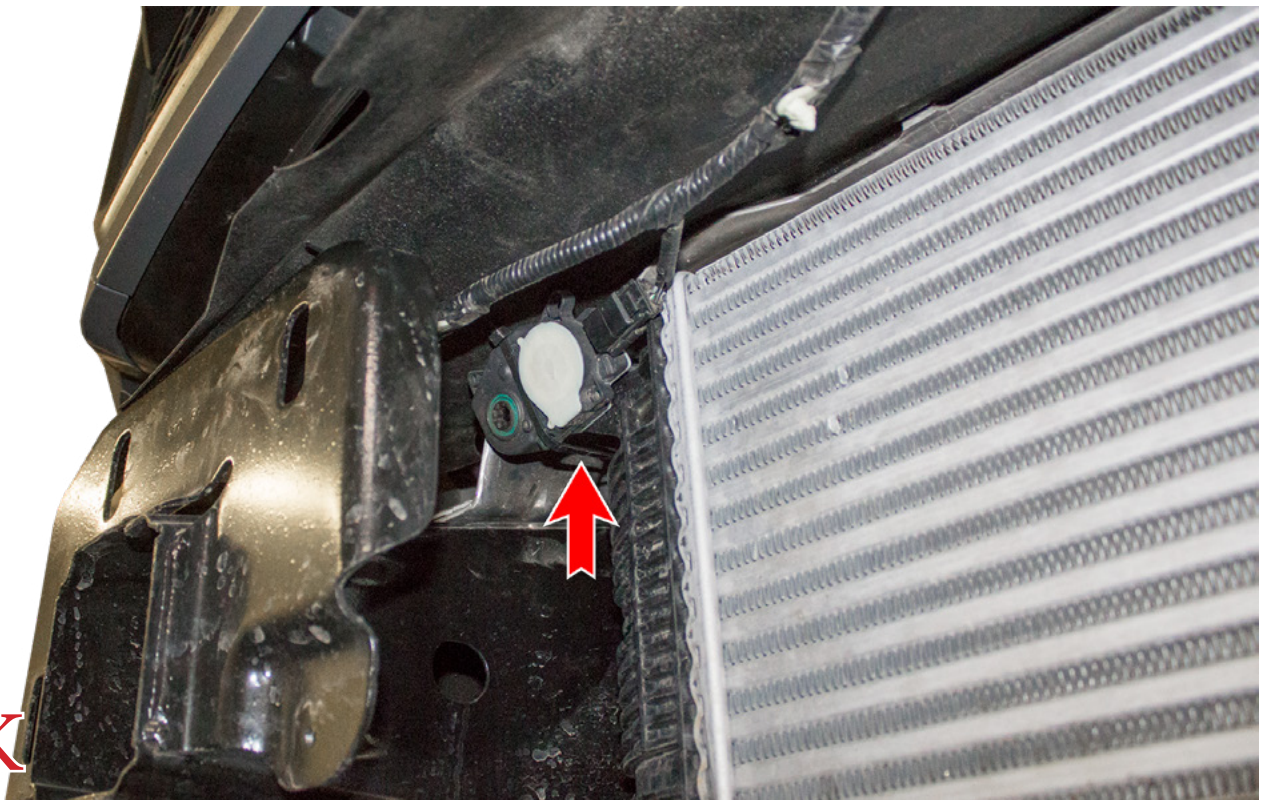


Fig K

12. Remove the factory nut clips from the bottom two skid plate mounting holes on the vehicle's frame. (Fig L)

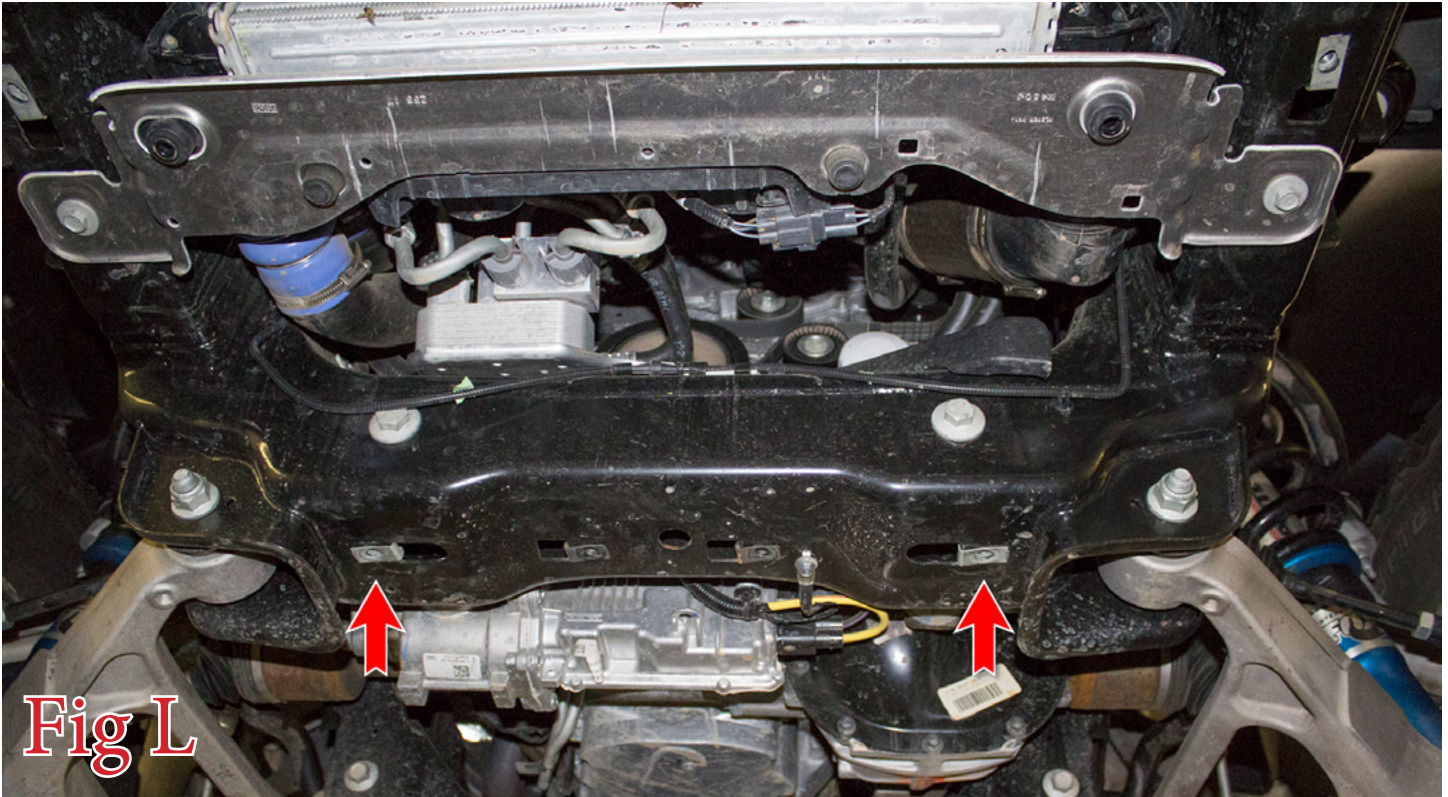


Fig L

13. Remove the series of clips holding on the rubber trim pieces below each headlight bezel. Then, remove these trim pieces. (Fig M)

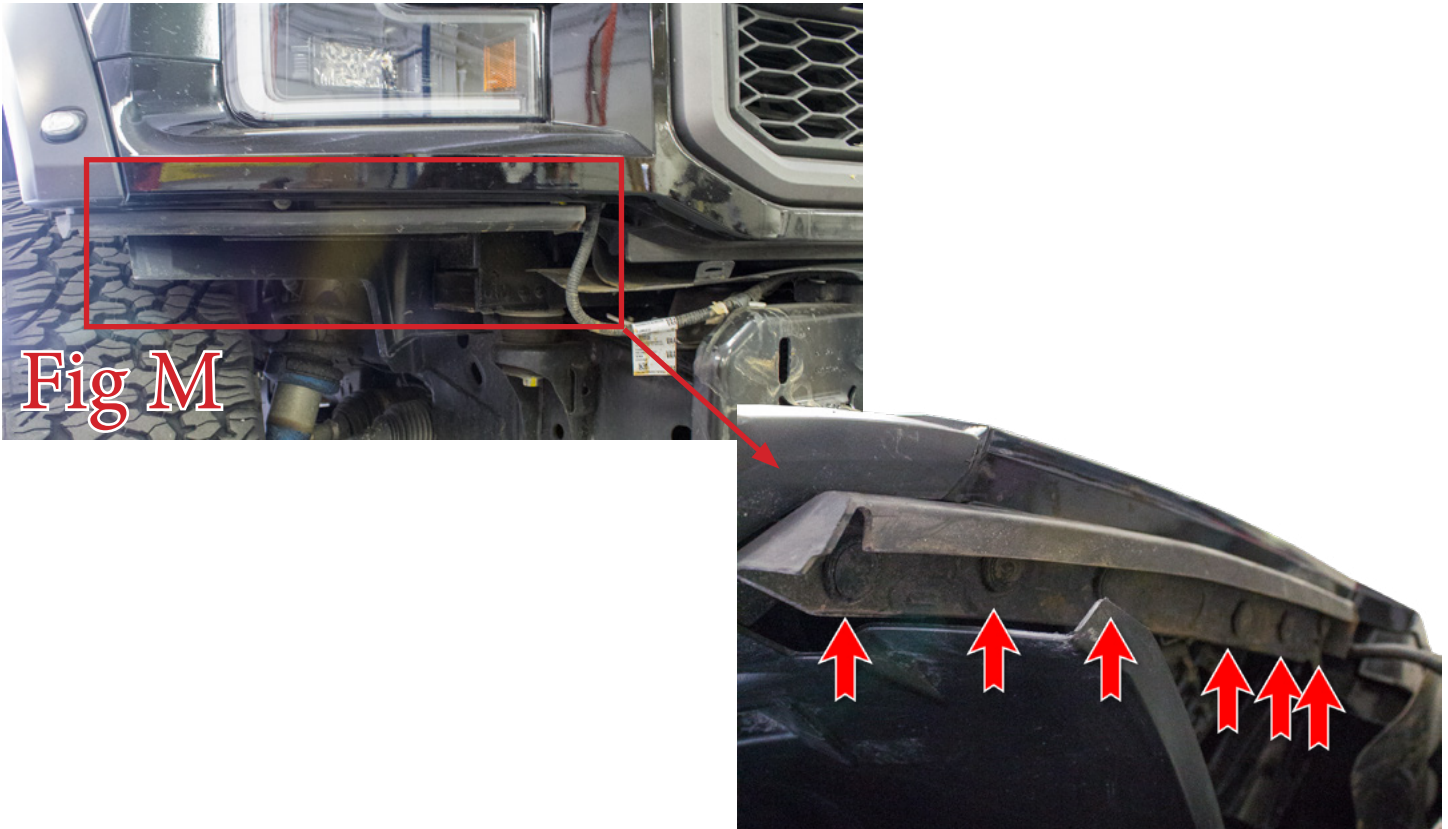
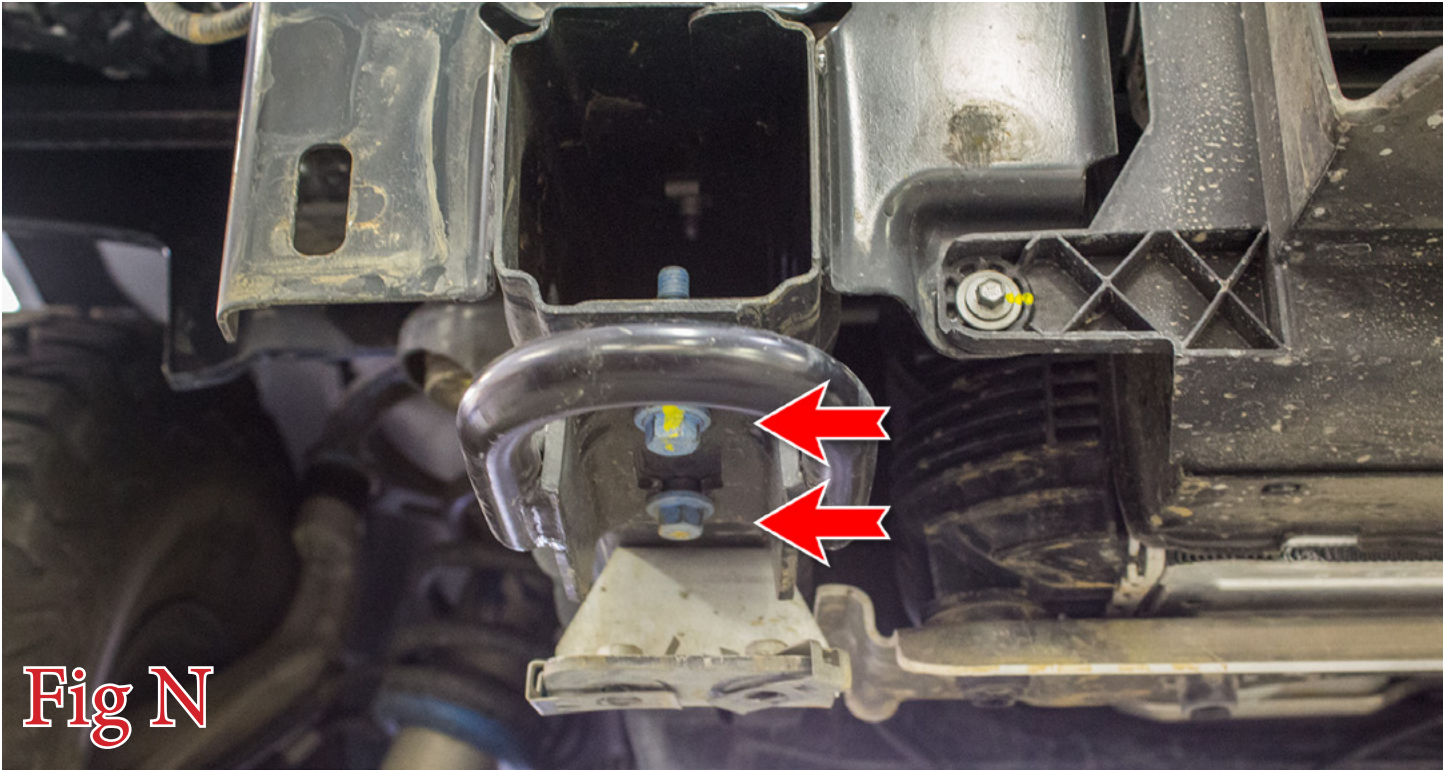
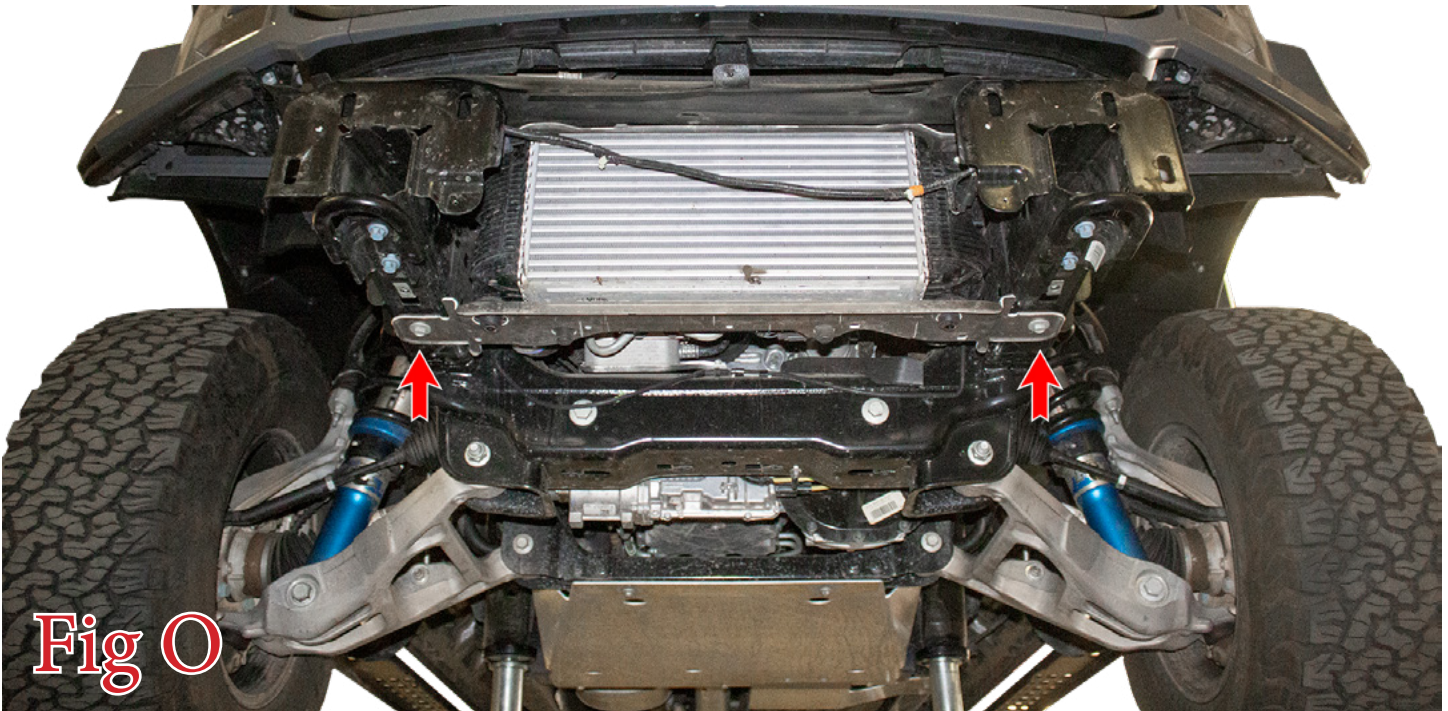


Fig M

14. Using a 15mm Socket, remove the two bolts (per hook) that hold the tow hooks in place. Then remove each tow hook. (Fig N) **Save these bolts for reuse.**



15. Use a 15mm Socket to remove the two lower intercooler bracket mounting bolts. (Fig O)



16. Using an angle grinder, or something similar, trim the lower corners of the intercooler mounting bracket as shown in (Fig P).

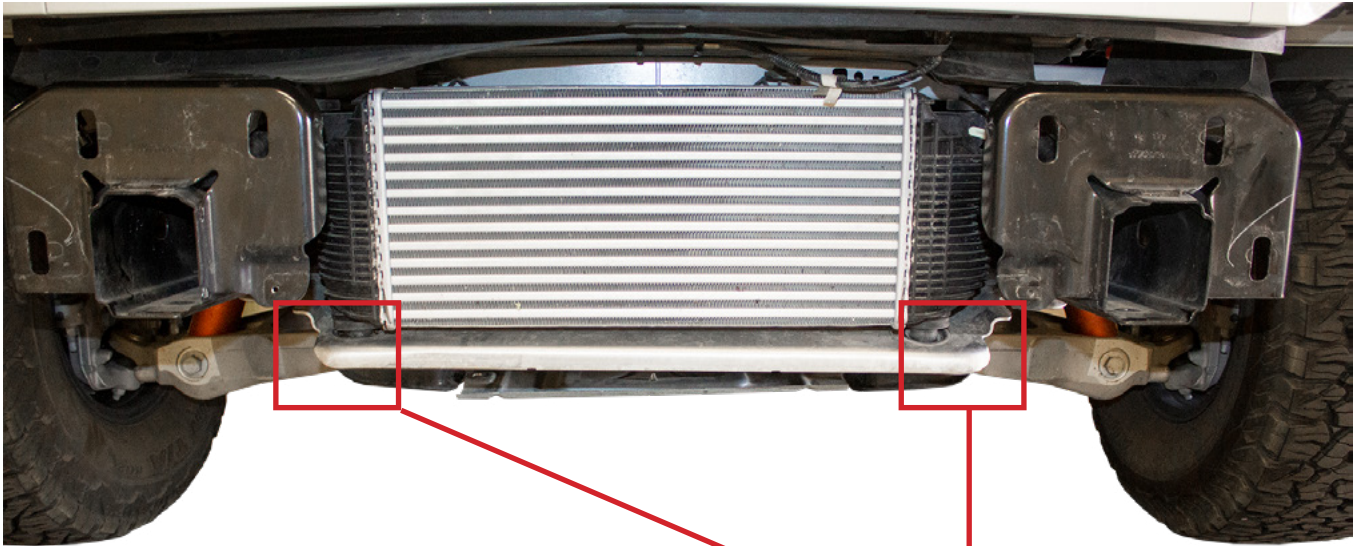
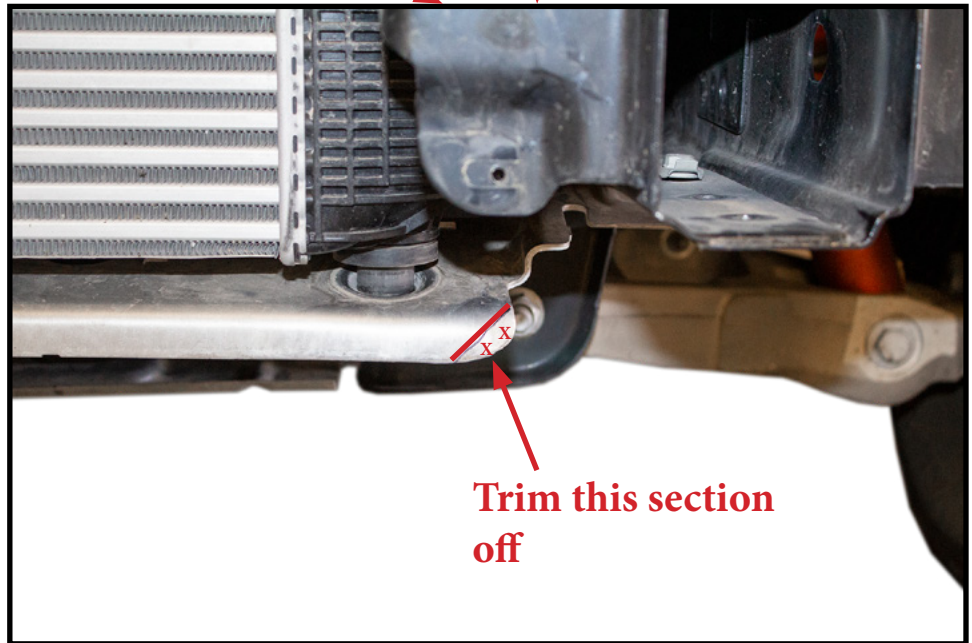


Fig P



**Trim this section
off**

Installation:

17. In the spot where you removed the bolts in Step 15, remove the OEM nut clips and replace them with the supplied Short 3/8" U-Nuts (x2). (Fig Q)

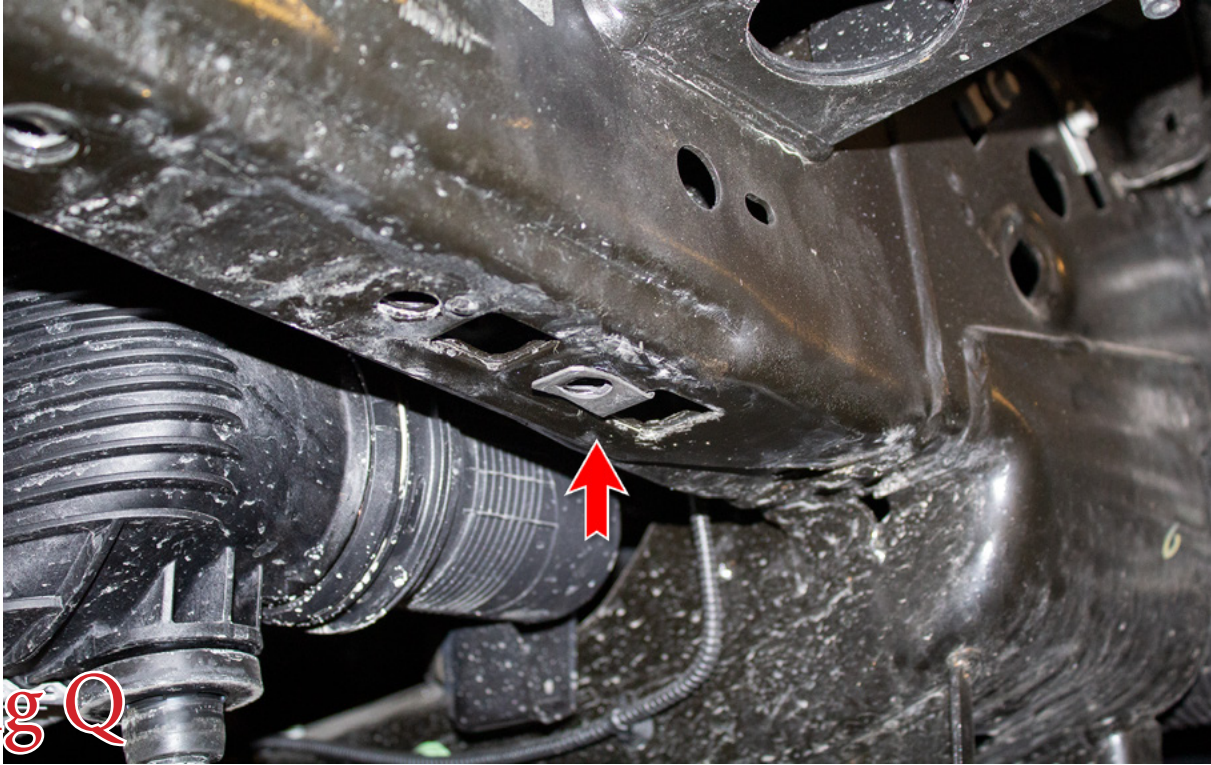


Fig Q

18. If you have any lights to install on your bumper, now is a good time to do so. (Fig R)

Round lights will install straight to your bumper (they hang upside down). If you are installing Baja Designs LP4 lights, follow Step 19.

Dual 20" bars will use the supplied brackets to mount. To mount the dual 20" bars, install the brackets onto both light bars, then install the entire assembly onto the bumper using the supplied 3/8" Button Head Bolts (x4), 3/8" Washers (x4), and 3/8" Lock Nuts (x4).

If you are using 12 cube lights and the studs from the lower cube lights hit the skid plate as you install it later, you will have to trim the studs on your cube lights.

Follow the light manufacturer's guide for wiring information.

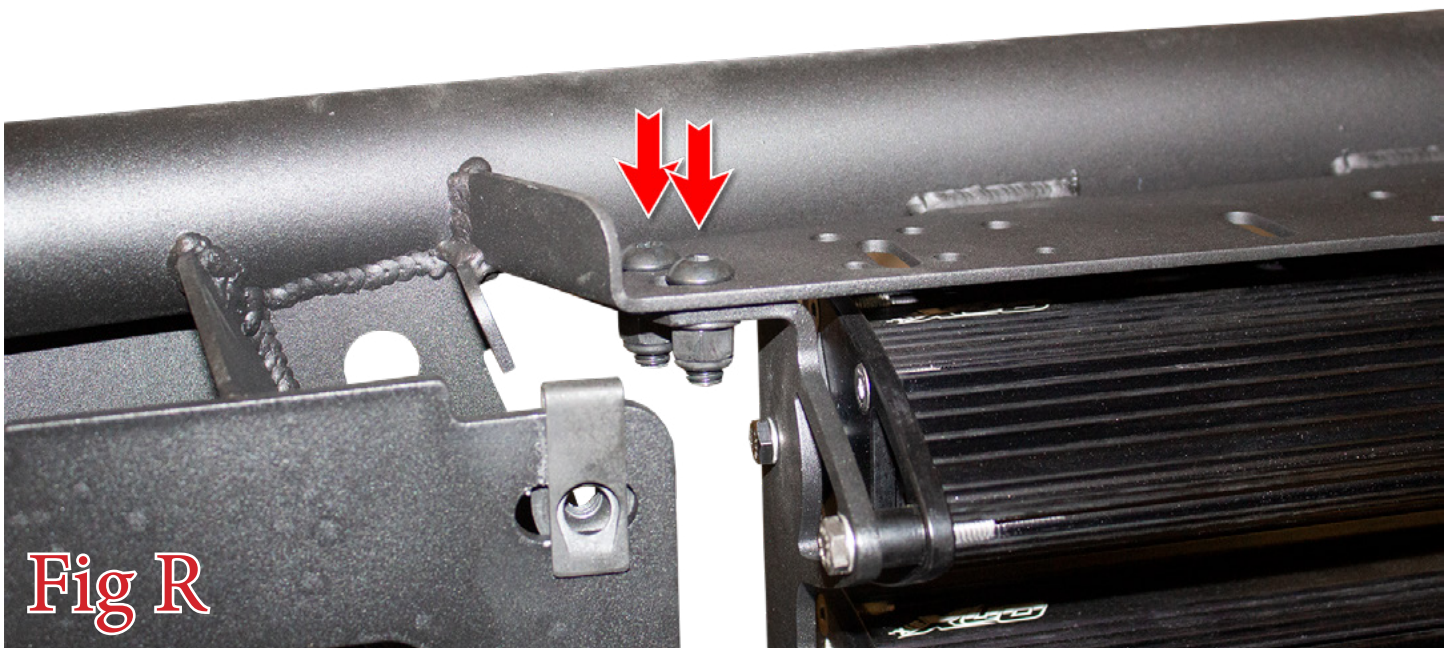
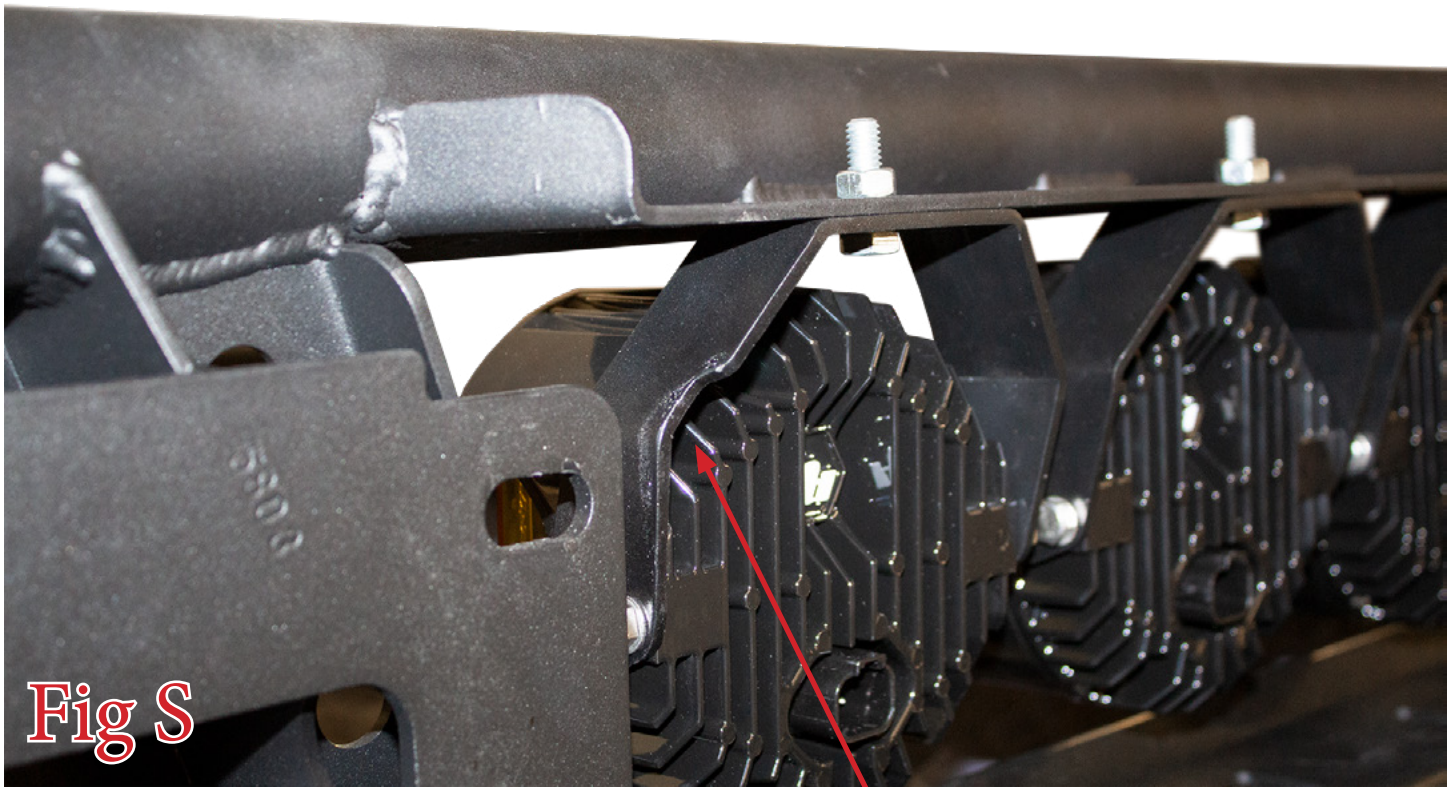
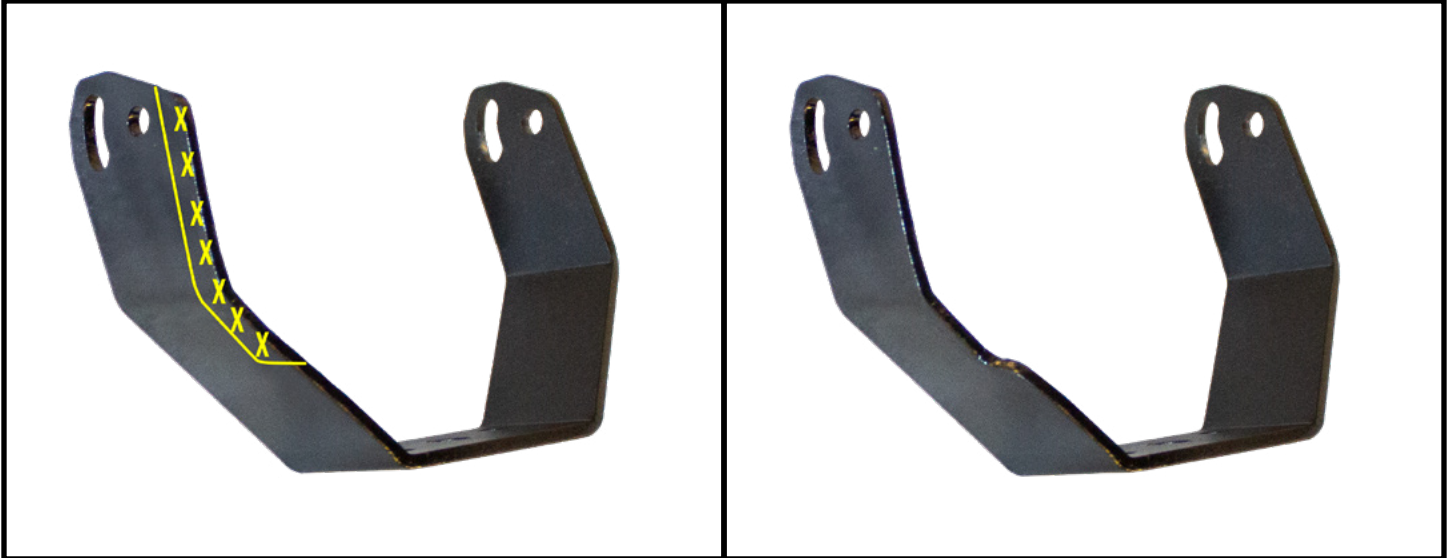


Fig R

19. If you are installing Baja Designs LP4 lights onto your bumper you will need to trim the mounting bracket for both outer lights to clear your frame horns. Follow the images shown in (Fig S) for cutting instructions.

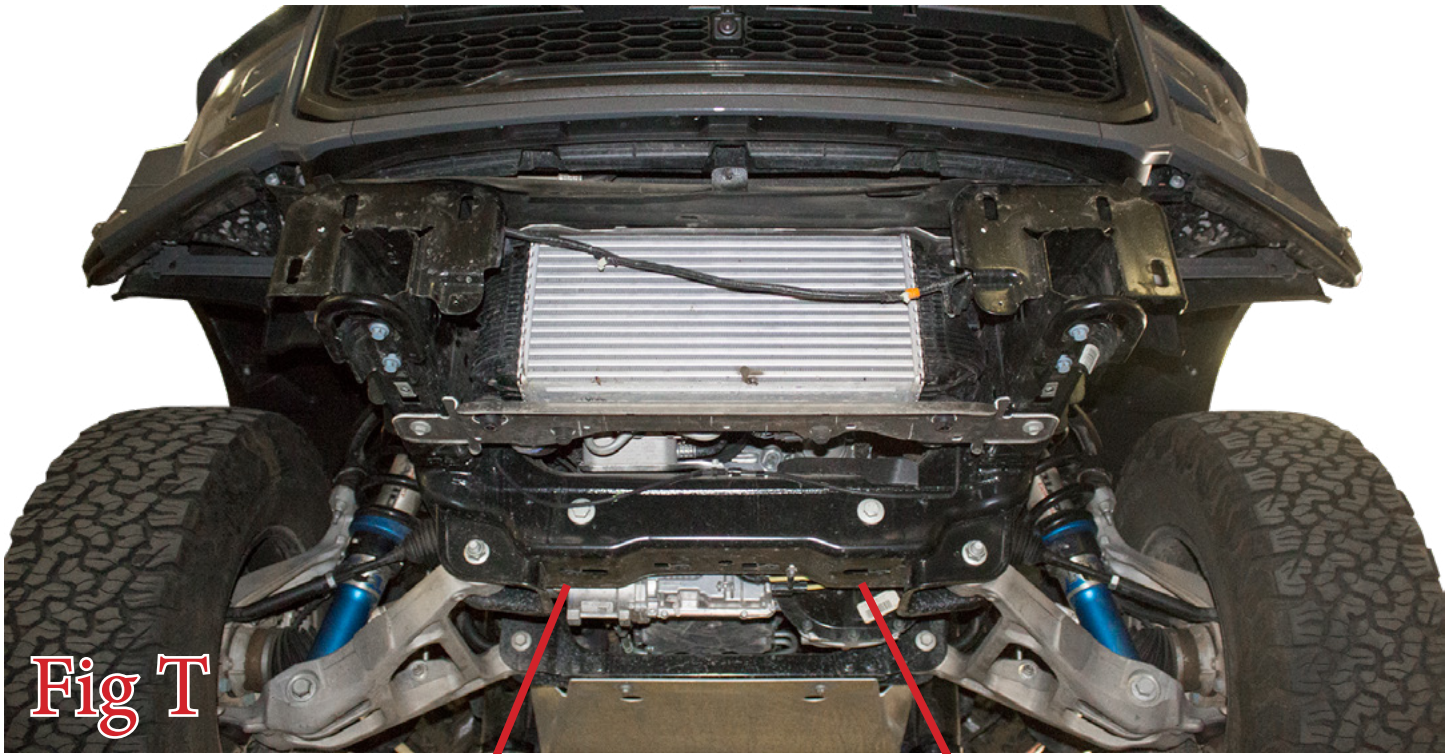
Before

After

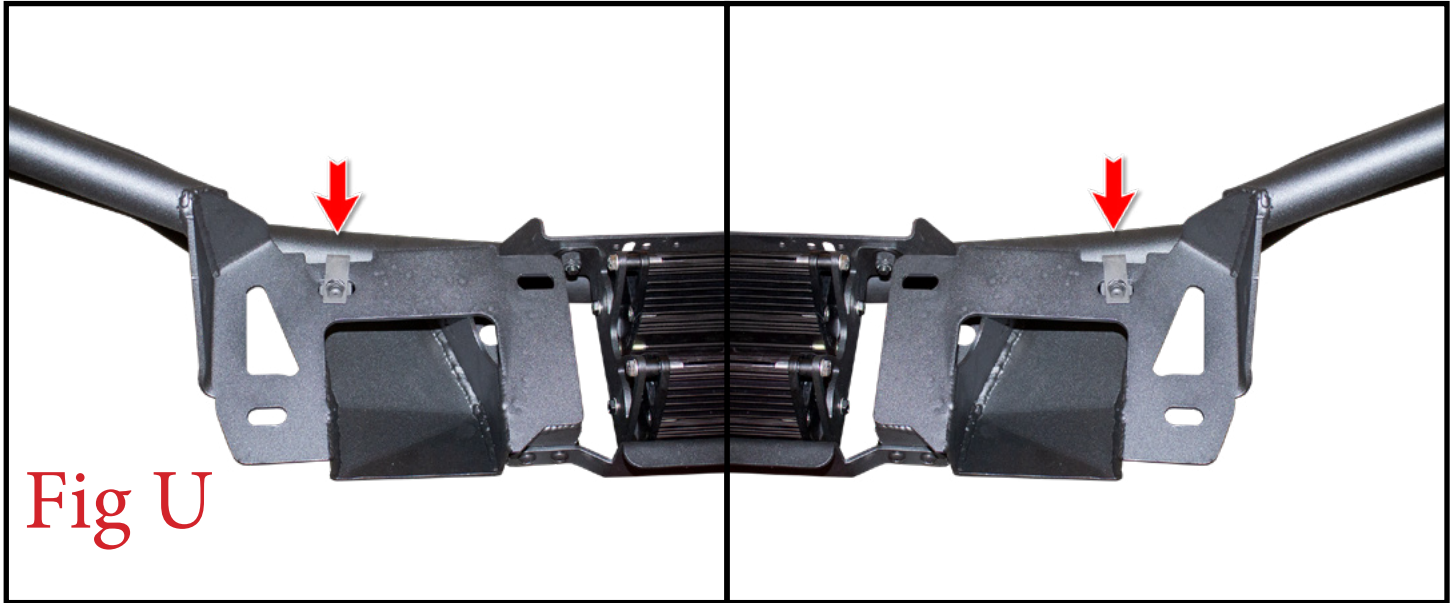


The trimmed edges should face the frame horns.

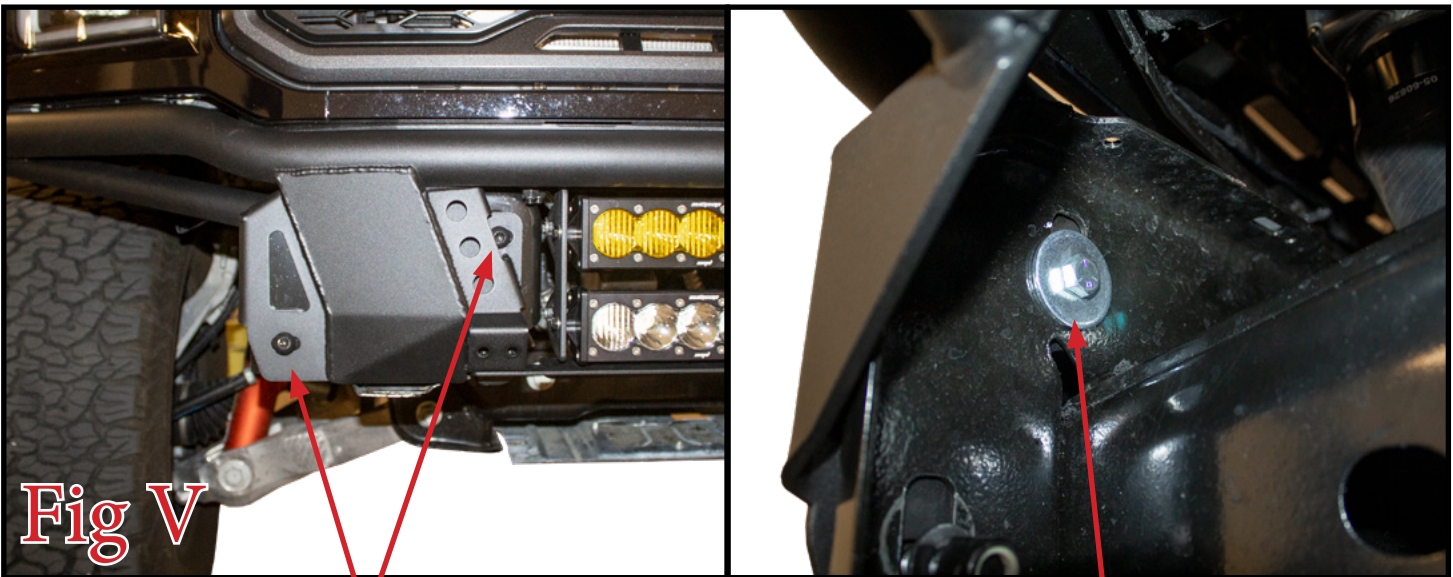
20. Install the supplied Regular Length 3/8" U-Nuts (x2) into the holes you removed the factory U-Nuts from in Step 12. (Fig T)



21. Install the supplied Long U-Nuts (x2) onto your new bumper as shown in (Fig U).



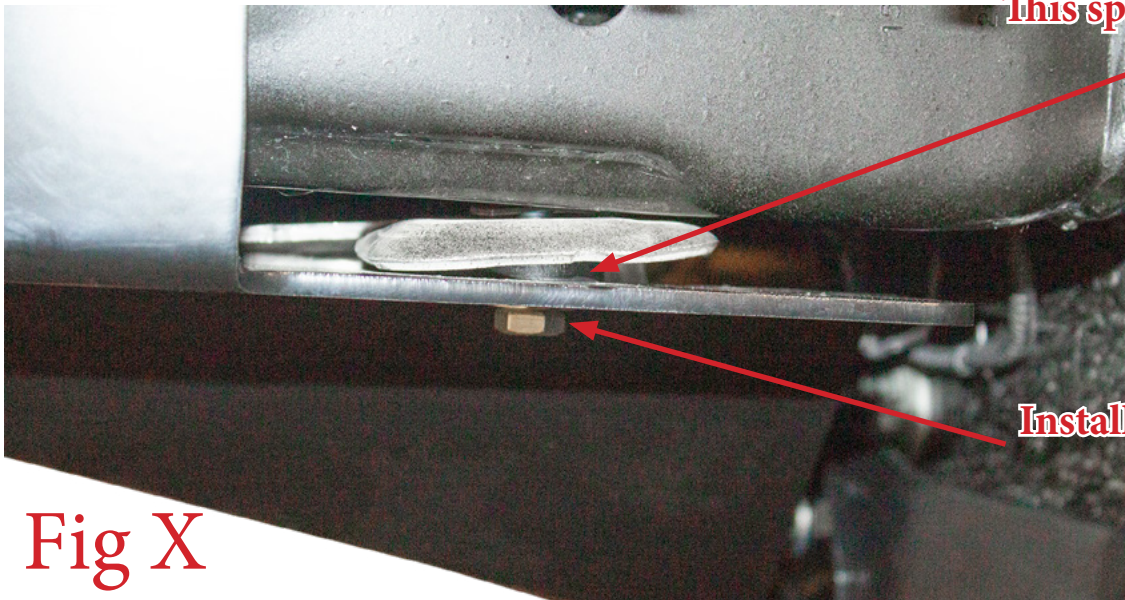
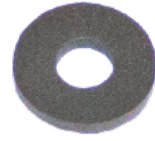
22. Set the bumper in place on the vehicle. Install the supplied 3/8" x 1" Hex Head Bolts (x2) and 3/8" Fender Washers (x2) into the newly installed U-Nuts from the back side of the frame horns. Then, install the supplied 1/2" Button Head Bolts (x4), 1/2" Washers (x4), and 1/2" Lock Nuts (x4) into the remaining mounting holes on the frame horns. (Fig V)



**Install the Black 1/2"
Bolts Here.**

**Install the 3/8" Bolts
Here.**

23. Install the supplied 3/8" x 1 1/2" Hex Head Bolts into the U-Nuts that were installed in Step 17. **Make sure to install the supplied Spacers in between the bumper's skid plate and the vehicles frame as shown.** (Fig X)



This spacer gets installed here.

Install the supplied 3/8" Bolt here.

Fig X

24. Install the supplied 3/8" x 1 1/2" Bolts (x2) and 3/8" Washers (x2) into the bumper's skid plate mounting holes as shown in (Fig W).

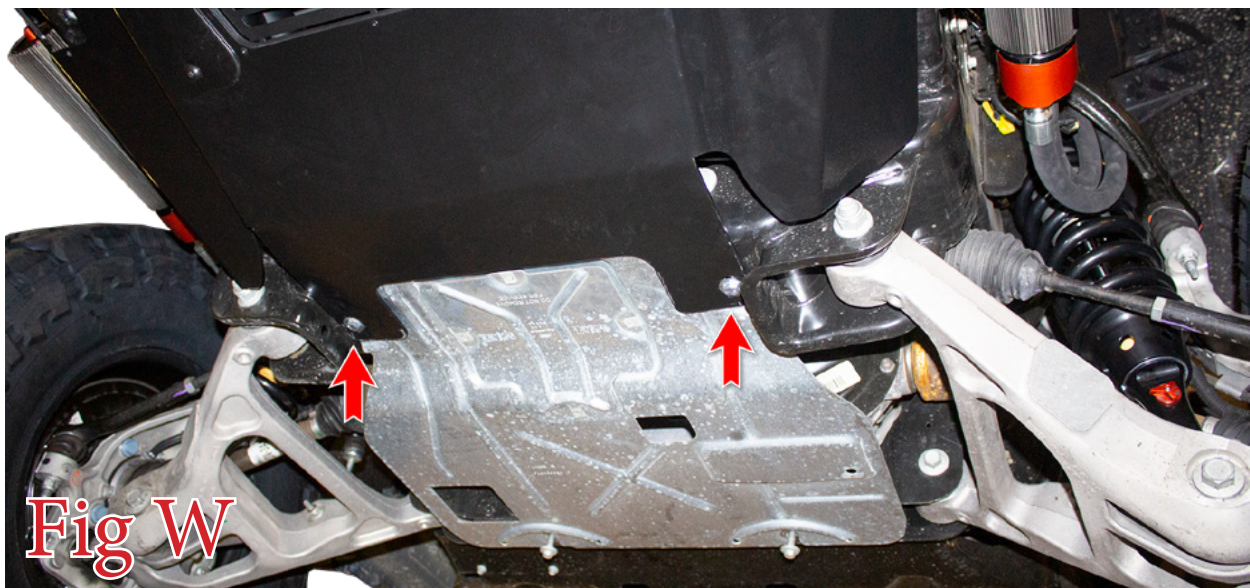


Fig W

25. Reinstall the tow hooks using the bolts/nut plates that were removed in Step 14. (Fig Y)

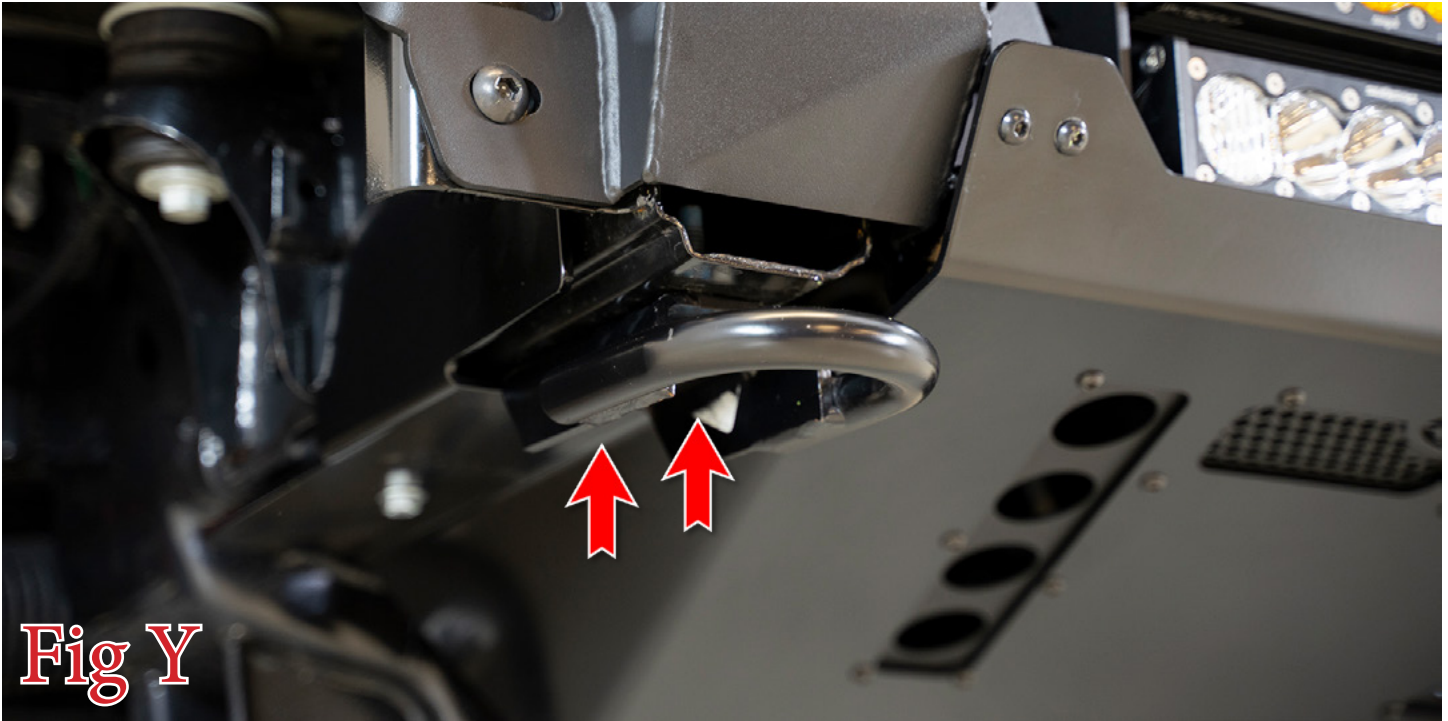


Fig Y

26. Center your bumper left to right. Then, align it so it is straight in relation to the grille/valance. Once it is straight, tighten the 1/2" Mounting Bolts to 70 foot pounds. Tighten the 3/8" Mounting Bolts to 30 foot pounds.
27. Stand back and enjoy your new ADD PRO Bolt-On™ V2 Front Bumper.
28. Check and re-tighten, if needed, all mounting bolts after 100 miles and periodically thereafter.

