



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 Center Light

1.5 Additional Hours for Winch Installation

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 | - 8mm Socket | - 10mm Socket |
| - 12mm Socket | - 17mm Socket | - 18mm Socket |
| - 21mm Socket | - 9/16" Socket | - 3/4" Socket |
| - 5/16" Allen Wrench/Socket | - Drill | - 1/2" Drill Bit |
| - Putty Knife or Something Similar | - Epoxy | - T40 Torx Socket |

Included in Kit:

- | | |
|-------------------------------------|--|
| 4 - Hex Head Bolts (3/8"-16 x 1") | 4 - Flat Washers (3/8") |
| 4 - U-Nuts (3/8"-16) | 2 - Button Head Bolts (1/2"-13 x 1 1/2") |
| 4 - Black Washers (1/2") | 4 - Nylon Lock Nuts (1/2"-13) |
| 2 - Hex Head Bolts (M10-1.5 x 30mm) | 2 - Flat Washers (M10) |

Removal:

1. Using an 8mm Socket, remove the five bolts in the front portion of the wheel well. Then, remove the front section of the inner liner. Repeat this step on the other side of the vehicle. (Fig A)

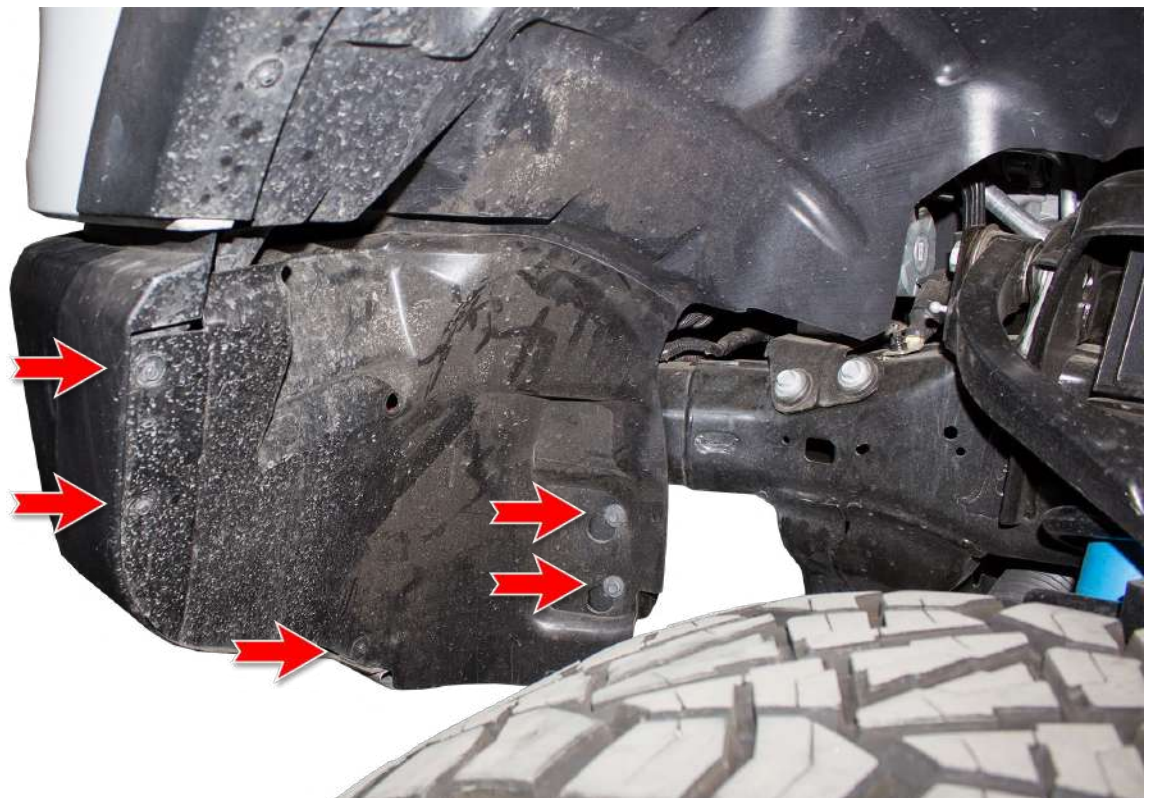


Fig A



2. Disconnect the main bumper harness connector that was behind the inner fender liner piece you removed on the driver side of the truck. (Fig B)

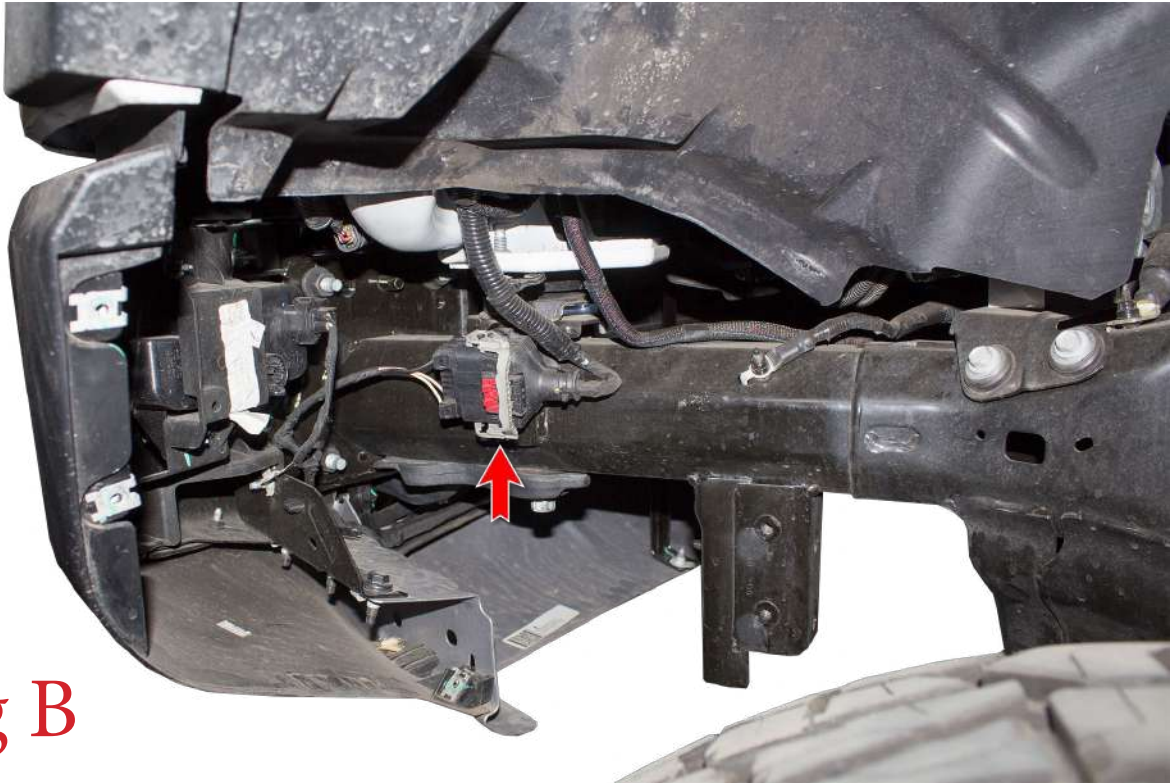


Fig B

3. Using an 18mm Socket, remove the 3 bumper mounting nuts (per side). Then, remove the OEM Bumper from the vehicle. (Fig C)

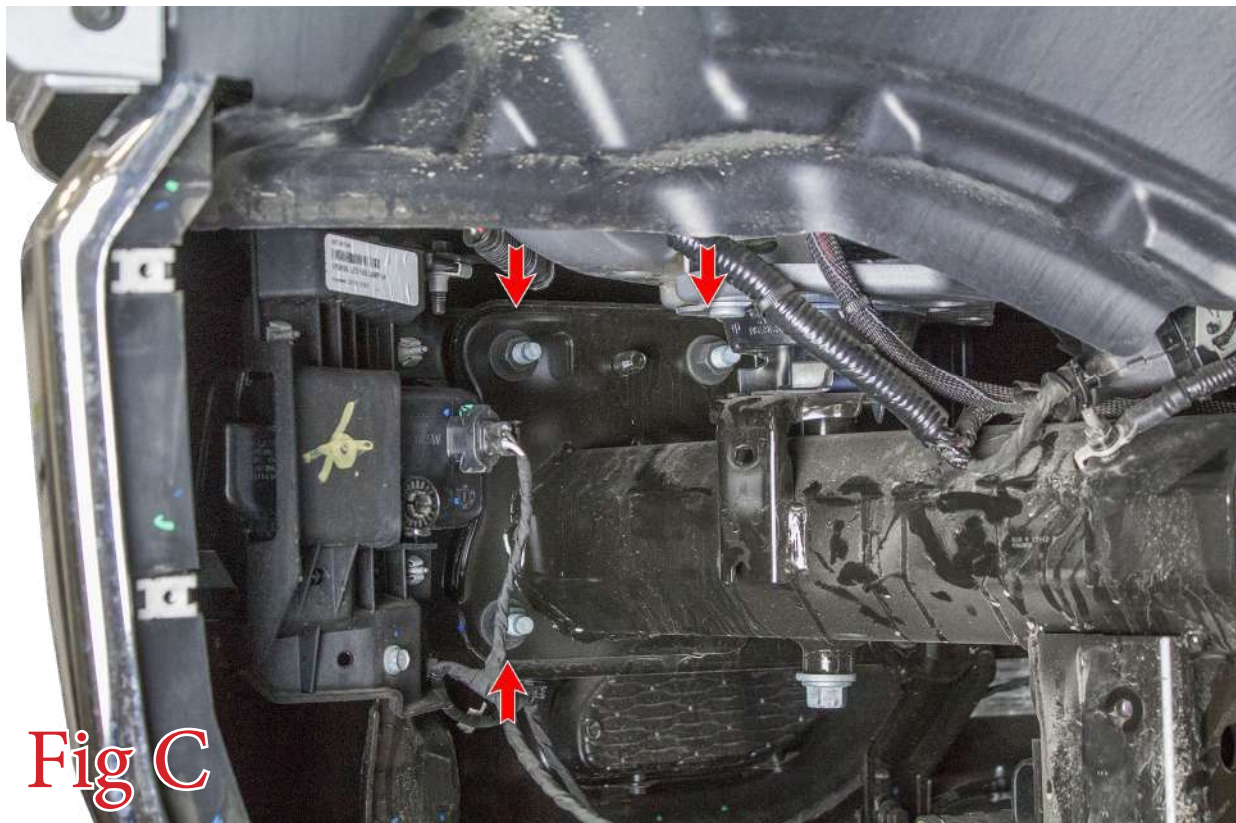
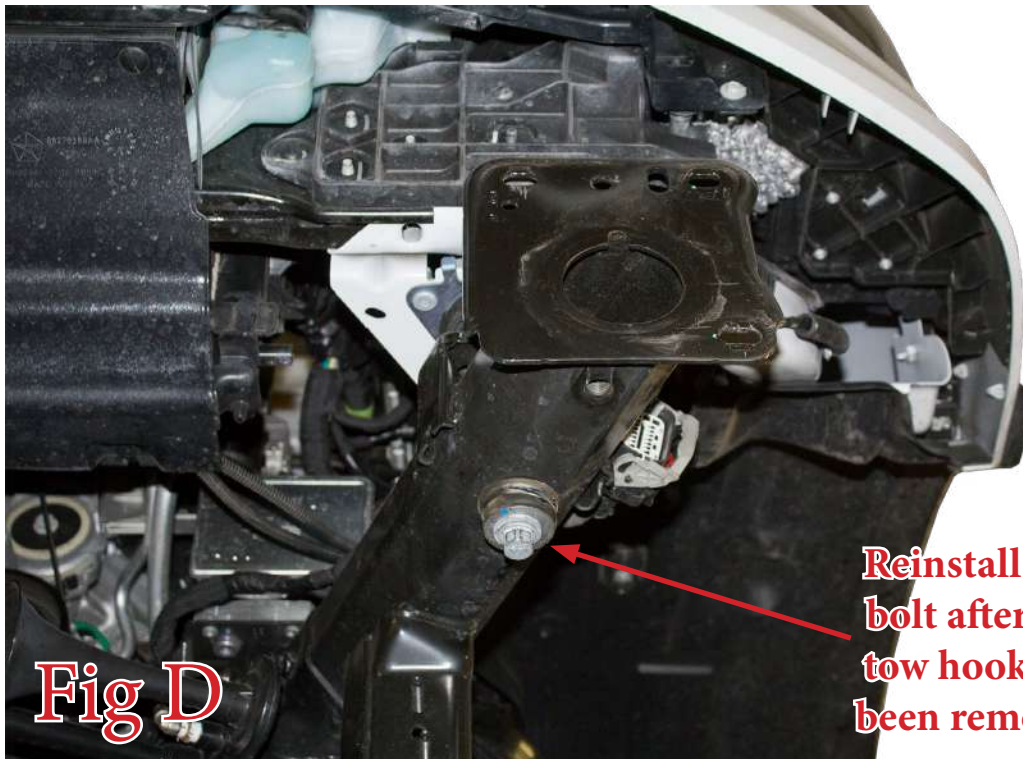
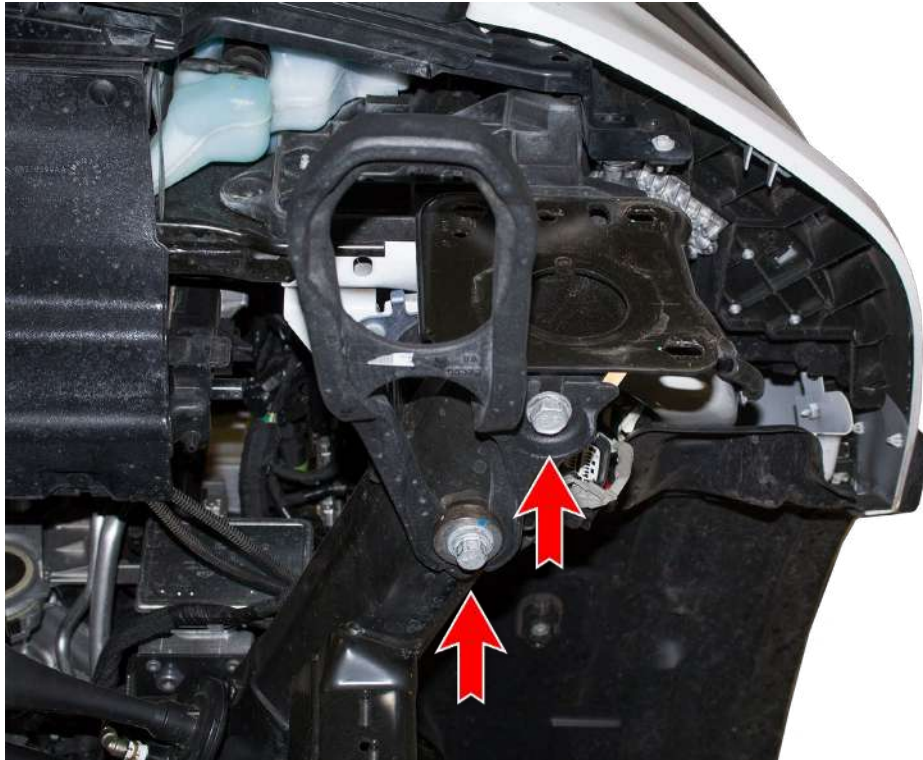


Fig C



4. Using an 18mm and 21mm Socket, remove the two bolts holding on each tow hook. Then, reinstall the rear bolt on each side after the tow hooks have been removed. (Fig D)





5. Unplug the connector on the back side of the air dam motor. (Fig E)

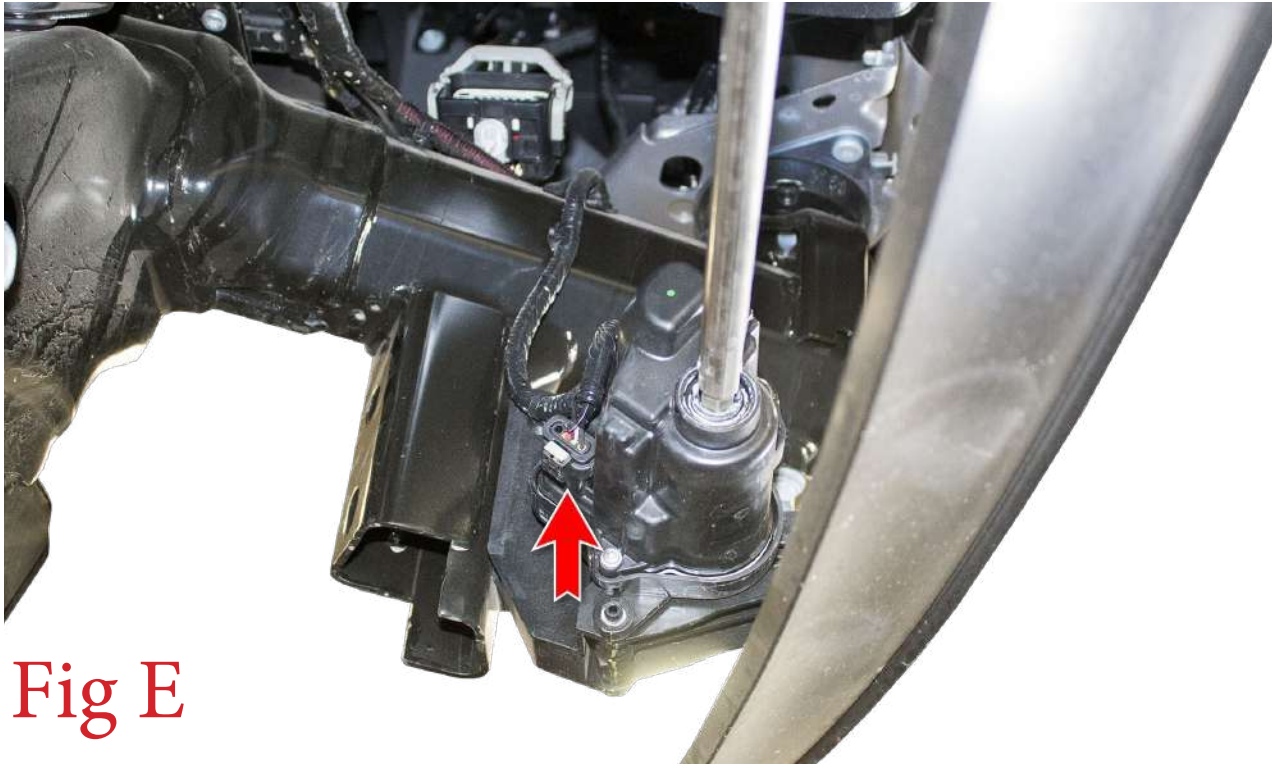


Fig E

6. Using a 12mm Socket, remove the four mounting nuts that hold the air dam in place. Then, remove the air dam from the vehicle. (Fig F)



Fig F



7. Using a Drill and a 1/2" Drill Bit, drill out the lower/outer holes on the vehicle's frame horns. (Fig G)



Fig G

8. Unplug the connector on the backside of the fog lights. Then, release the plastic clips holding the bumper harness to the fog light assembly. (Fig H)

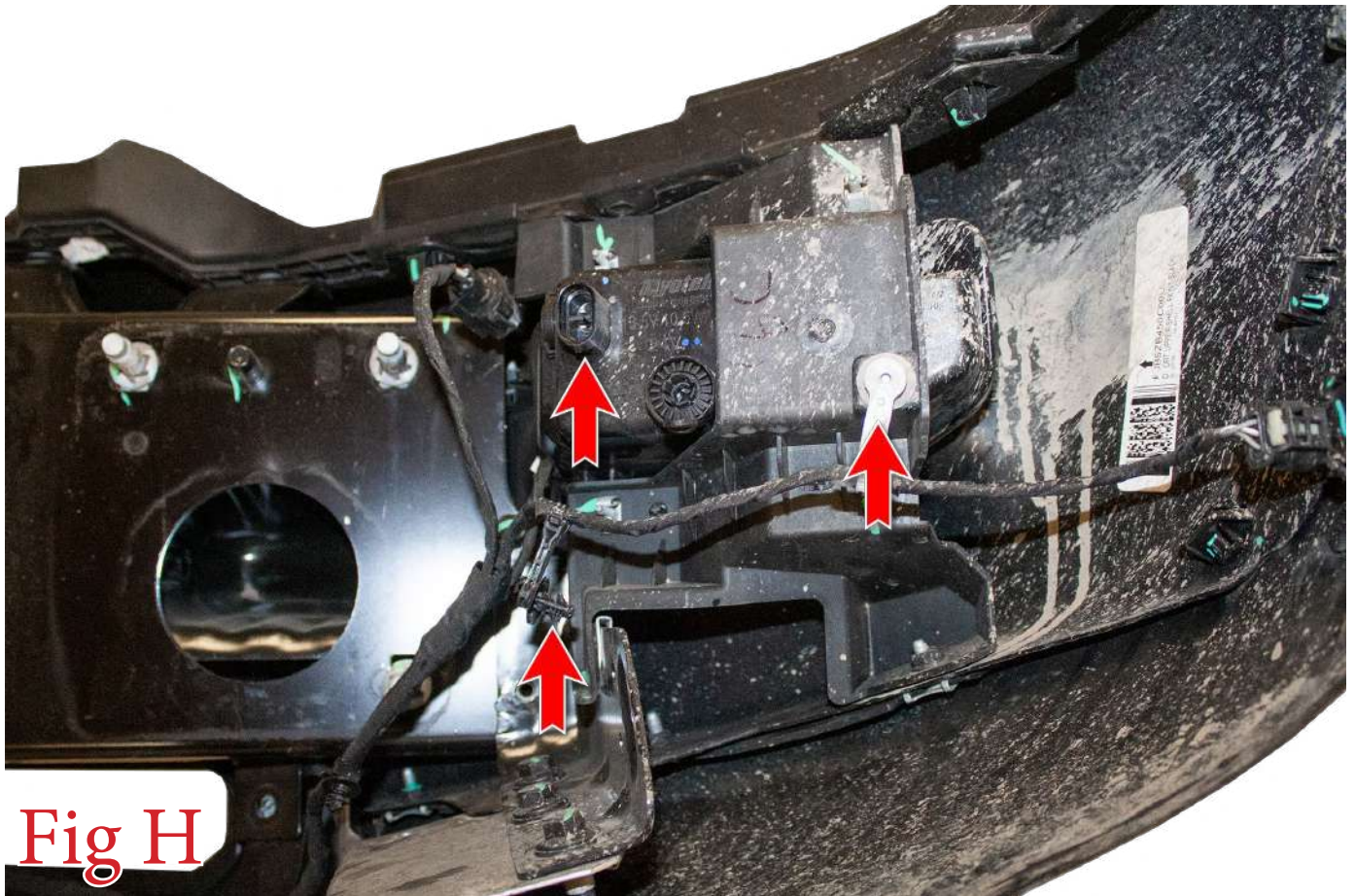
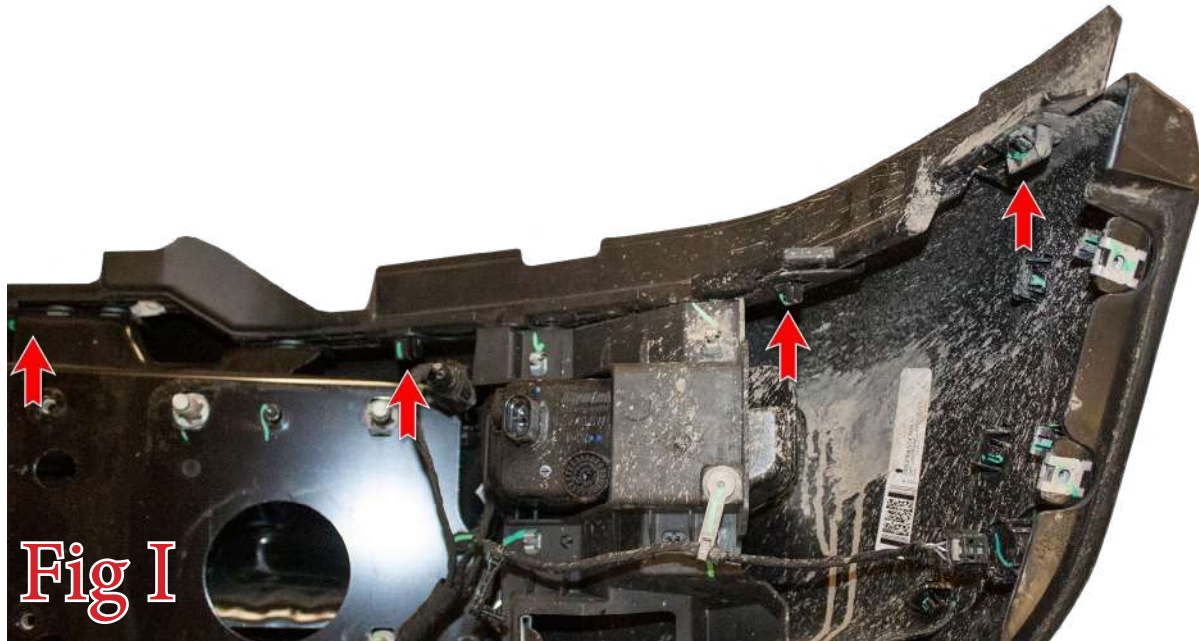


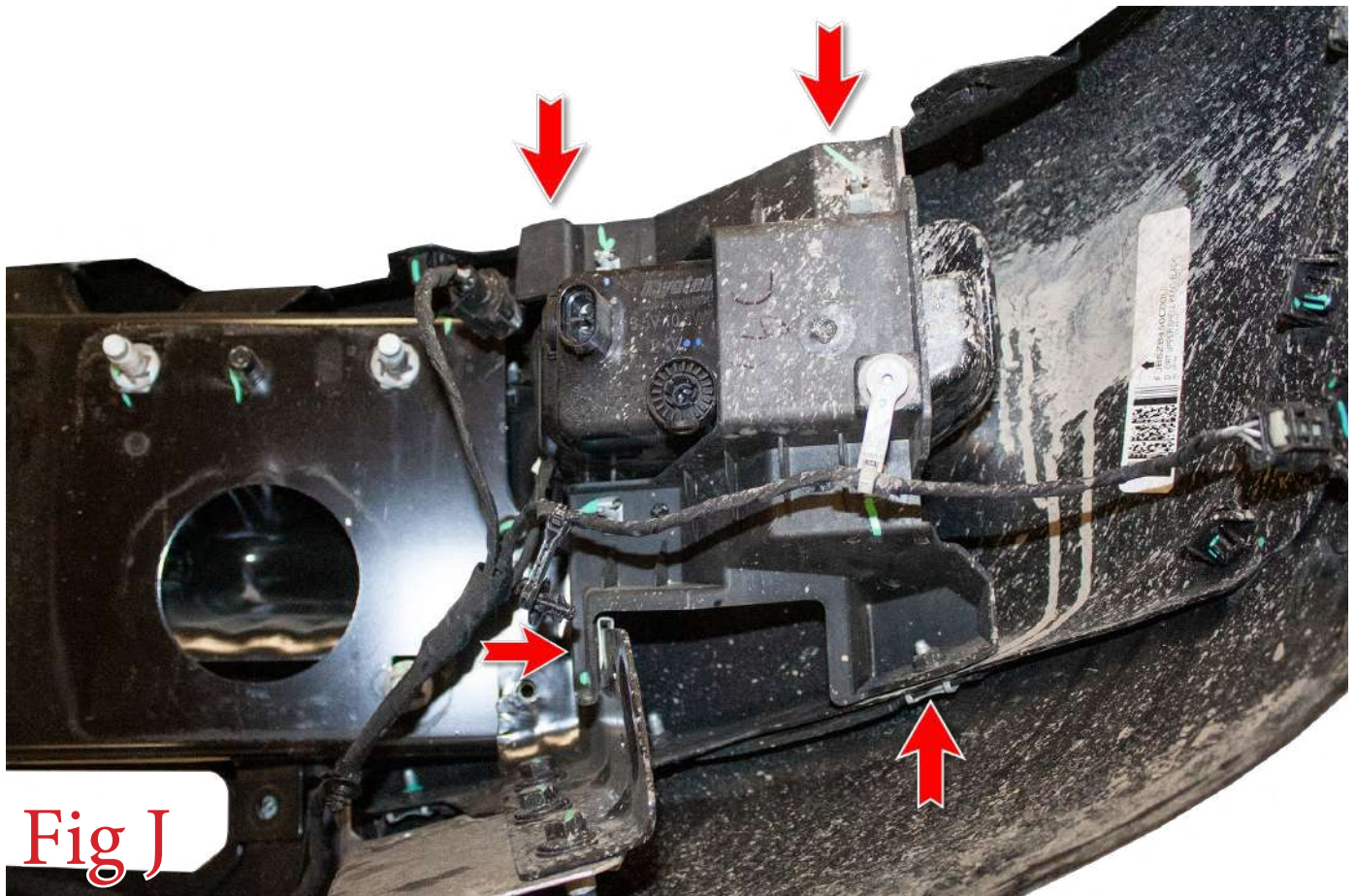
Fig H



9. Remove the upper plastic trim piece from the OEM bumper by releasing the four clips that hold it on. (Fig I)

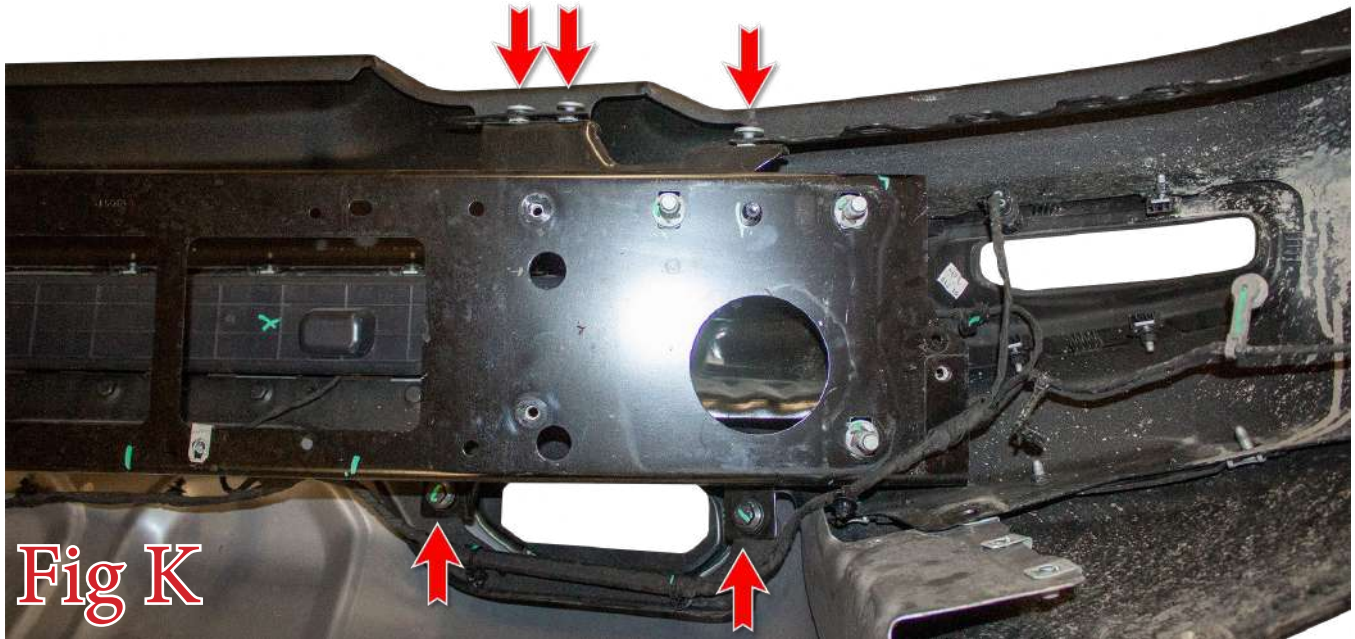


10. Remove the fog light assembly. Use a T40 Torx Socket to remove the top two bolts. Use a 10mm Socket to remove the bottom/sideways facing bolt. Use an 8mm Socket to remove the bottom nut. (Fig J)

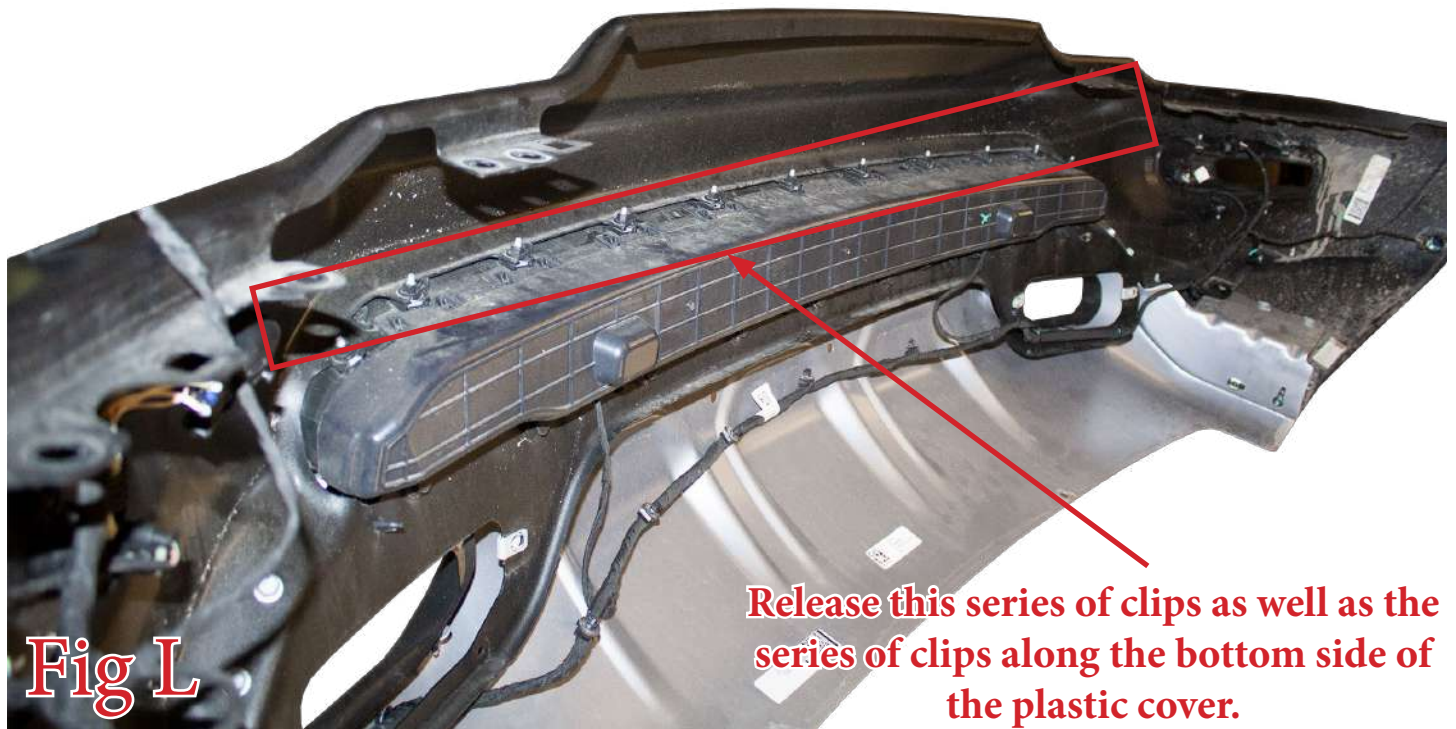




11. Using a T40 Torx Socket and a 13mm Socket, remove the mounting bolts for the center metal bumper bar. Remove this bar. (Fig K)

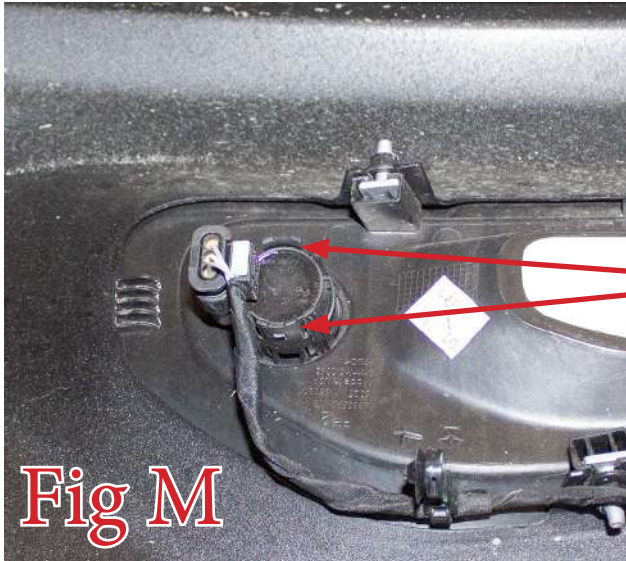


12. Release the series of clips along the top and bottom of the plastic cover referenced in (Fig L). Then, remove this cover.





13. Remove the center four parking sensors by spreading the two tabs on the back side of the sensor mounting rings and pulling the sensors out the back side of the rings. Then, squeeze the tabs on the sensor ring to release the sensor out the front side of the bumper. **Be sure to keep track of the position/orientation of the sensors as you remove them so they can be installed in the same position/orientation on your new bumper.** (Fig M)



Spread these two tabs to release the sensor. Then, squeeze the tabs together to release the sensor mounting ring from the bumper.

14. Release the series of clips referenced in (Fig N). This will allow you to expose the entire sensor mounting ring.



Fig N



15. Spread the two tabs on the back side of the sensor mounting ring to remove the sensor. Then, use a putty knife or something similar between the sensor mounting ring plate and the bumper to break the plastic welds and free the mounting ring from the bumper. **Be sure to keep track of the position/orientation of the sensors as you remove them so they can be installed in the same position/orientation on your new bumper.** (Fig O)



Spread these tabs to release the sensor



Use a scraper to separate the mounting plate from the bumper



This is what it looks like once its separated

Fig O



16. Cut off the small tab on the sensor mounting ring plate. (Fig P)



Fig P



Installation:

17. Using epoxy, or something similar, glue the outer sensor rings to your new bumper by applying epoxy to the front face of the mounting ring plates and setting them in place on the bumper until the epoxy properly cures. **Make sure to install them in the same position/orientation as they were on the OEM bumper.** Once the epoxy cures, push the sensor into the mounting ring from the back side. (Fig Q)



Apply epoxy here.



Fig Q



18. Install the parking sensors into your new bumper by first pressing the mounting rings into their precut holes from the front side until it clicks into place. **If the sensor ring doesn't fully click into place, you will need to trim the tabs on the side of the mounting ring.** Then, push the sensor into the mounting ring from the back side until it clicks into place. Make sure the install the sensors in the same position/orientation as they came off the OEM bumper. (Fig R)

If the mounting ring doesn't click into place, trim back the tabs on the surface highlighted with a red line. Then, repeat that on the other set of tabs not shown in this picture.

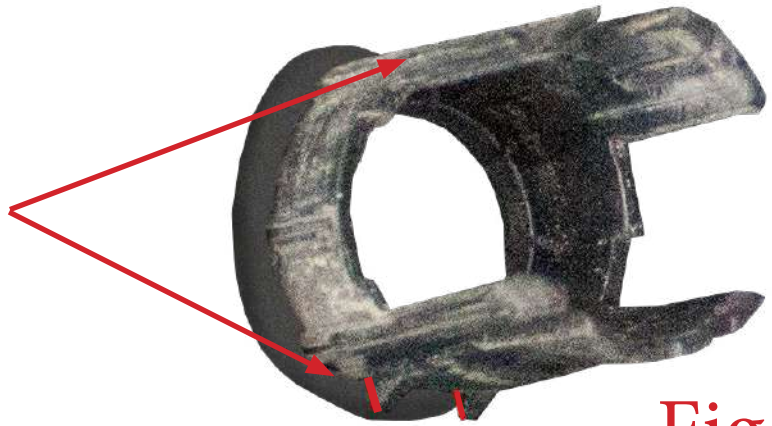


Fig R

19. Install the wire harness onto the bumper as shown in (Fig S)

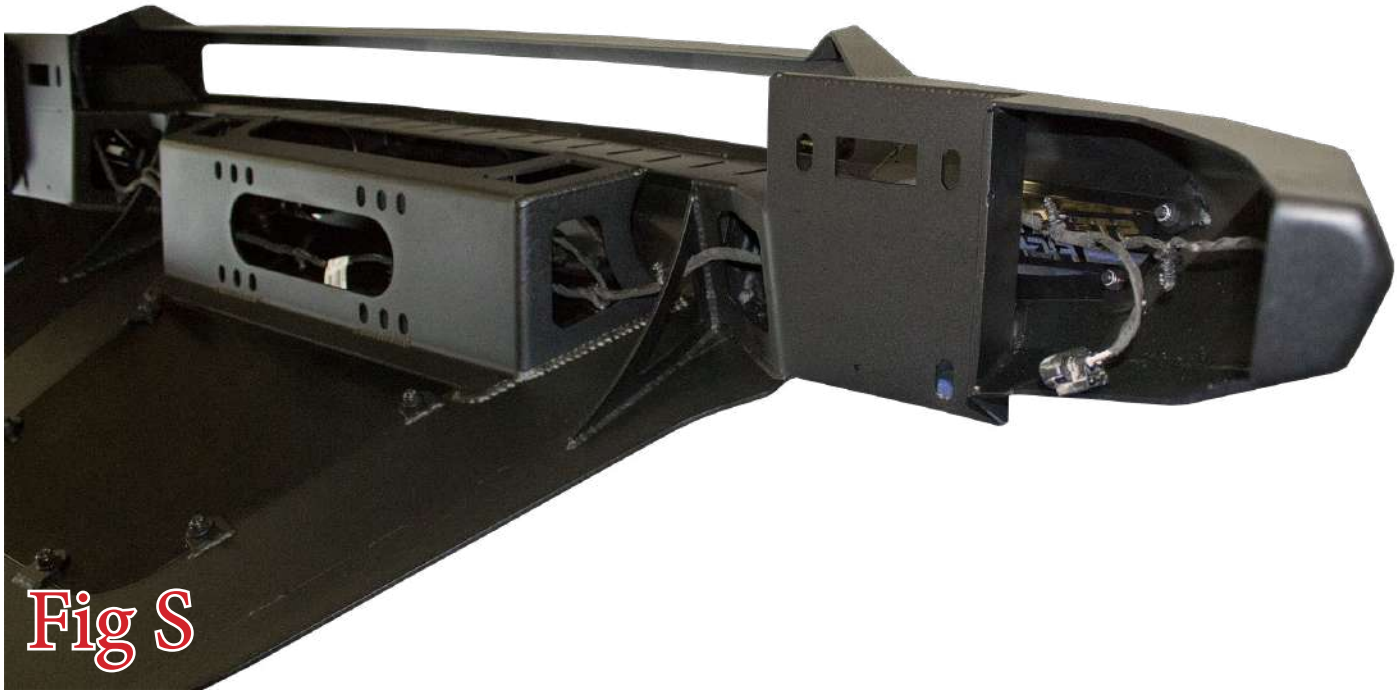


Fig S



20. If you have a light or winch to install in your bumper, now is a good time to do so. To install the light, follow our Universal Light Mount Kit installation guide for mounting information, but follow the light manufacturer's guide for wiring information. For winch installation, follow the manufacturer's guide for mounting and wiring information.

21. Install the supplied U-Nuts (x4) onto the bumper as shown in (Fig T).

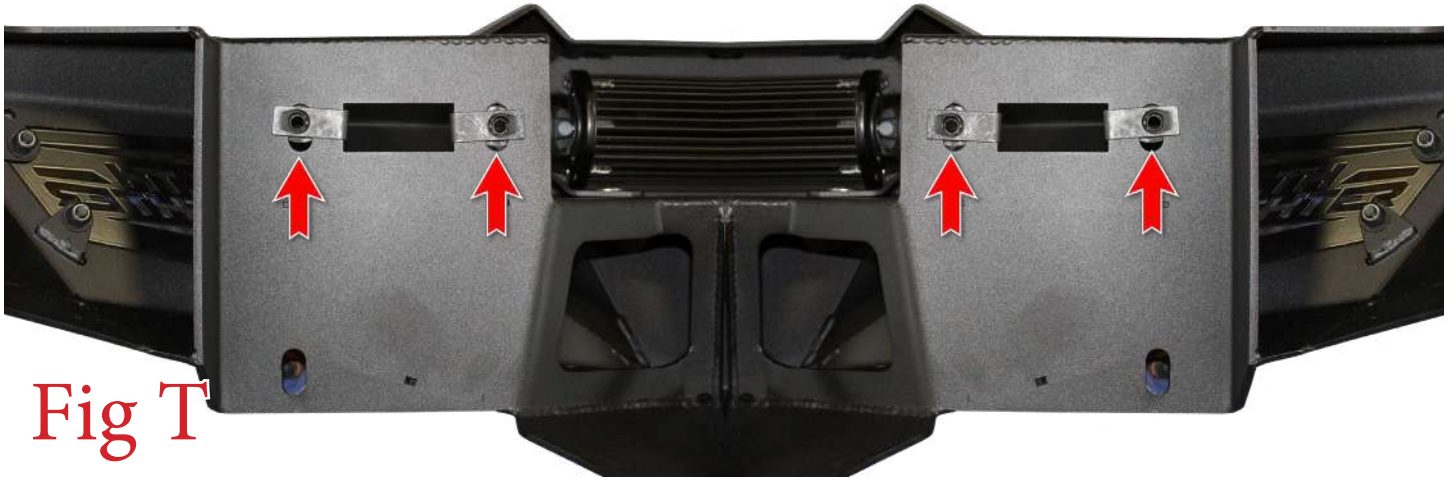


Fig T

22. Set the bumper in place on the vehicle. Loosely secure it to the vehicle using the supplied 3/8" Bolts (x4) and 3/8" Washers (x4). Leave these bolts loose for now. (Fig U)

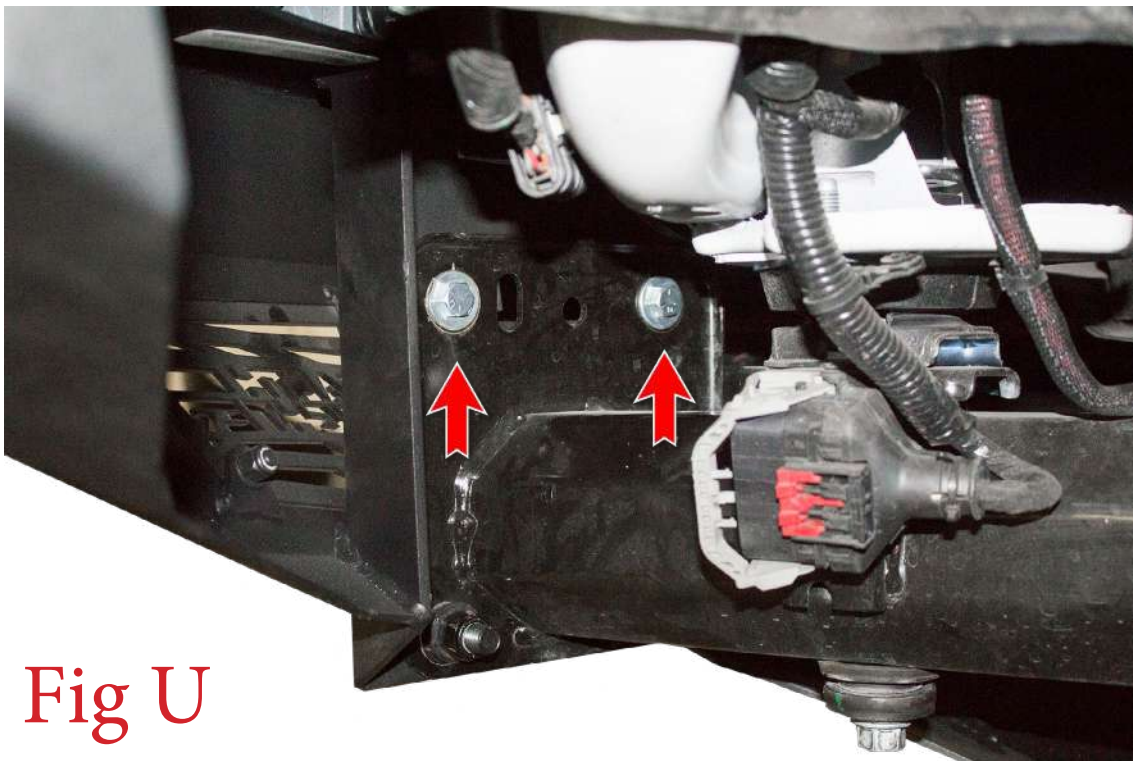


Fig U



23. Use the supplied 1/2" Black Bolts (x2), 1/2" Washers (x4), and 1/2" Nuts (x2) in the lower/outer mounting hole on the truck's frame horns. (Fig V)



24. Install the supplied M10 Bolts (x2) and M10 Washers (x2) into the skid plate mounting holes. Leave these bolts loose for now. (Fig W)





25. Align the bumper so that it sits straight in relation to the grille/valance and is centered left to right. Then, torque the 3/8" Mounting Bolts to 25 foot pounds. Torque the 1/2" Mounting Bolts to 70 foot pounds. Torque the M10 Mounting Bolts to 30 foot pounds.
26. Reconnect the connector from Step 2.
27. Stand back and enjoy your new ADD Stealth Fighter™ Front Bumper.
28. Check and re-tighten, if needed, all mounting bolts after 100 miles and periodically thereafter.

