



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 Additional Hour to Wire Cube Lights

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 | - 9/16" Socket & Wrench | - 6mm Socket |
| - 8mm Socket | - 11mm Socket | - 15mm Socket |
| - 21mm 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 - Hex Head Grade 8 Bolts (3/8-24 x 3 1/2") |
| 4 - Flat Washers (3/8") | 2 - Metal Lock Nuts (3/8"-24) |
| 4 - Hex Head Bolts (M12-1.75 x 30mm) | 4 - Flat Washers (M12) |
| 1 - Universal Light Mount Kit | 1 - Winch Mounting Plate |

Removal:

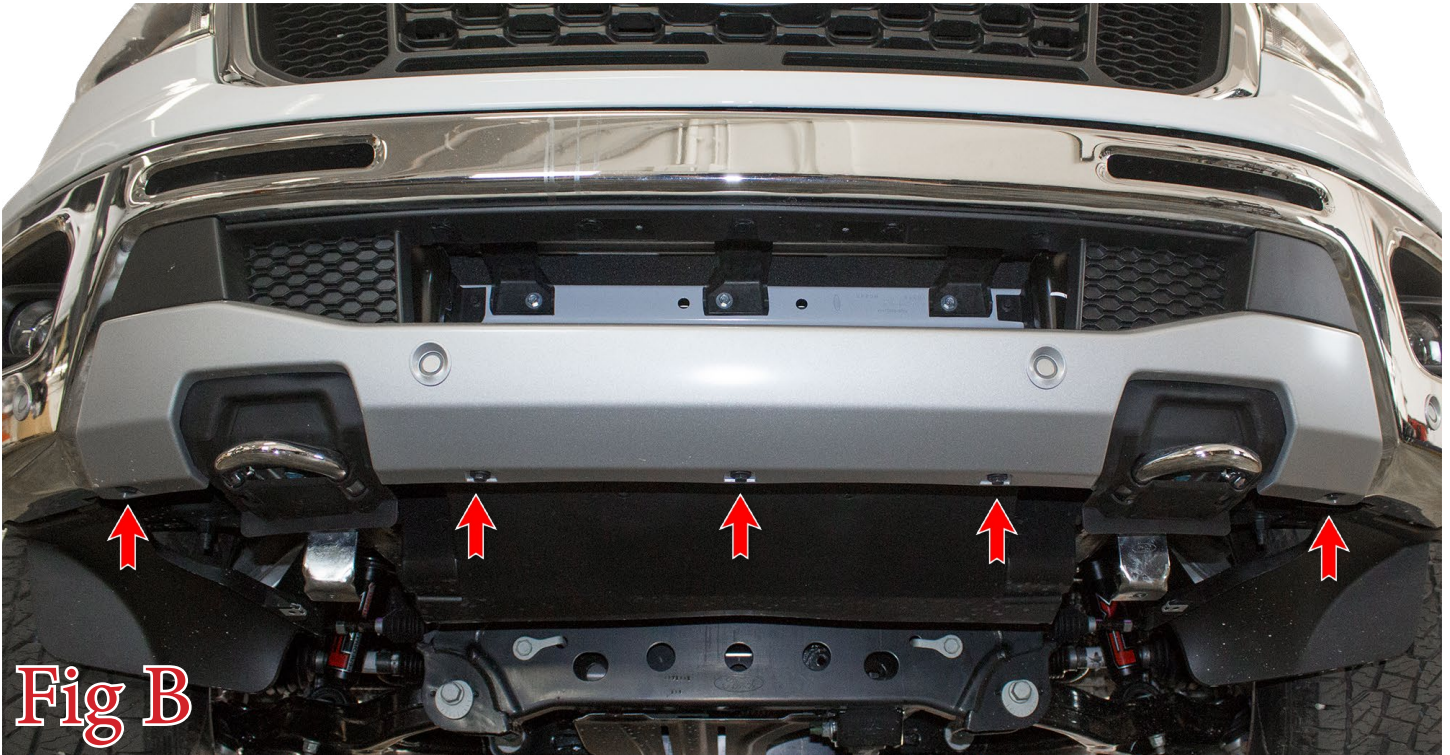
1. Using a 15mm Socket, remove the four bolts that hold on the skid plate. Then, remove the skid plate from the vehicle. (Fig A) Save two of these bolts for reuse.



Fig A



- Using an 11mm Socket, remove the bolts (x5) along the bottom side of the bumper. (Fig B)

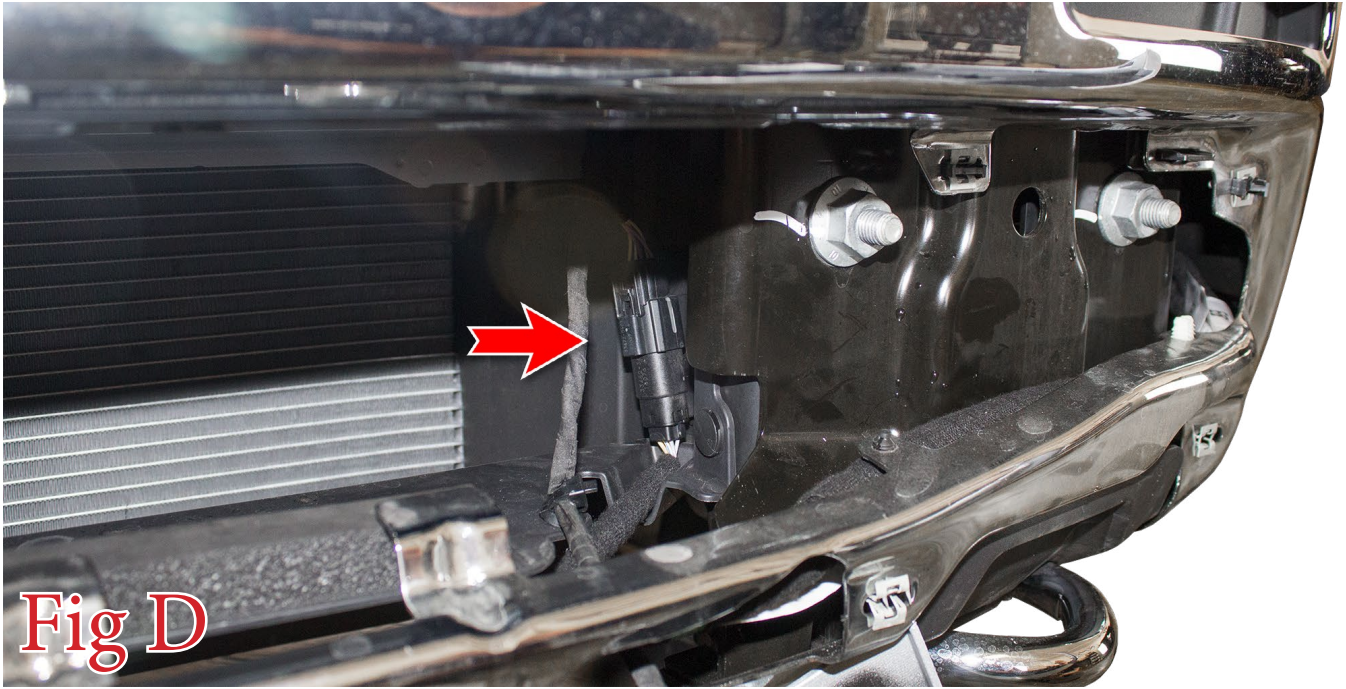


- Remove the plastic clips (x5) in the top side of the intercooler opening on the front bumper. (Fig C)





4. Unplug the connector that sits just inside of the intercooler cutout in the bumper. (Fig D)



5. Pull off the front/lower plastic piece of the front bumper. (Fig E)





6. Using an 8mm Socket, remove the single bolt on the back side of each mudflap. (Fig F)



Fig F

7. Using a 21mm Socket, remove the bumper mounting nuts (3 per side). (Fig G)



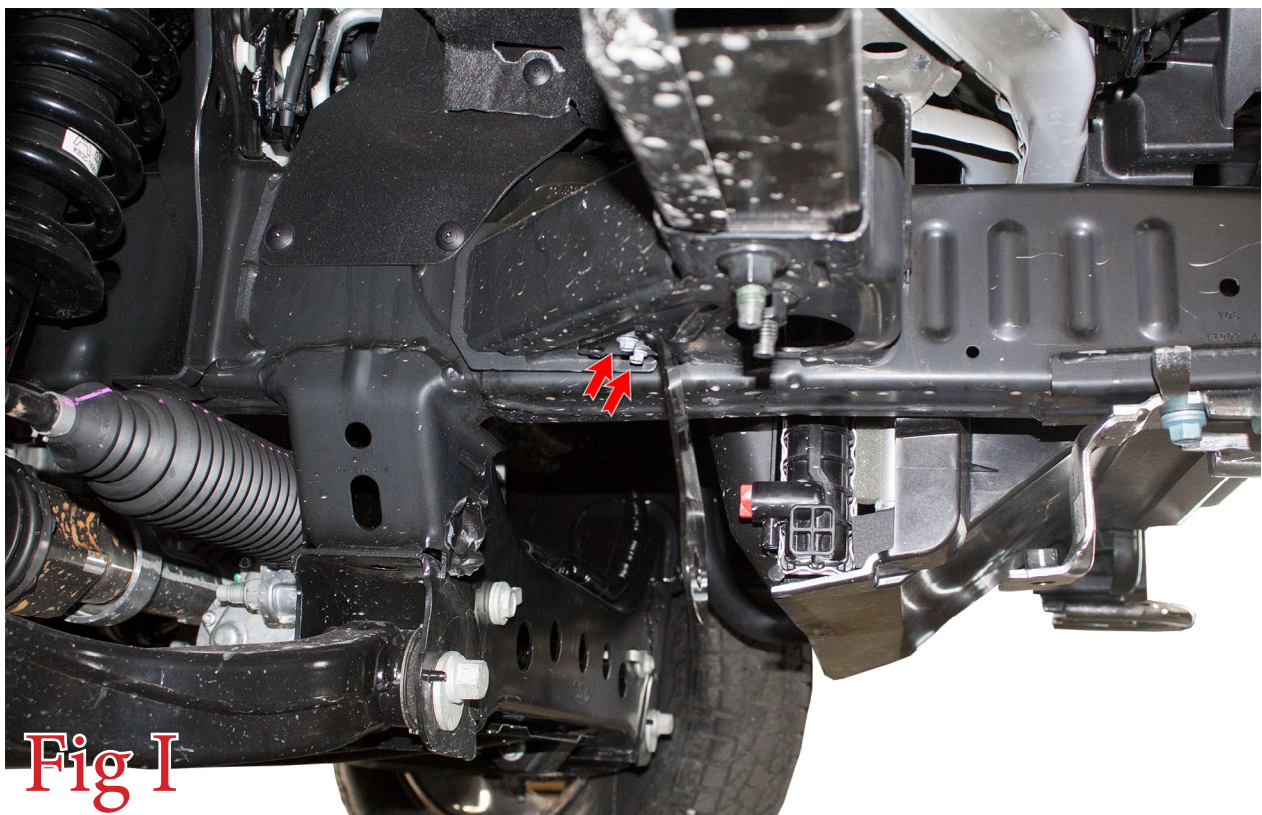
Fig G



8. Unplug the main bumper harness as you remove the OEM bumper from the vehicle. (Fig H)



9. Using a 6mm Socket, remove the mud flap bracket mounting bolts (2 per side). Then, remove the bracket from the vehicle. (Fig I)





10. Using a 15mm Socket, remove the tow hook mounting bolts (2 per side). Then, remove the tow hooks from the vehicle. (Fig J)

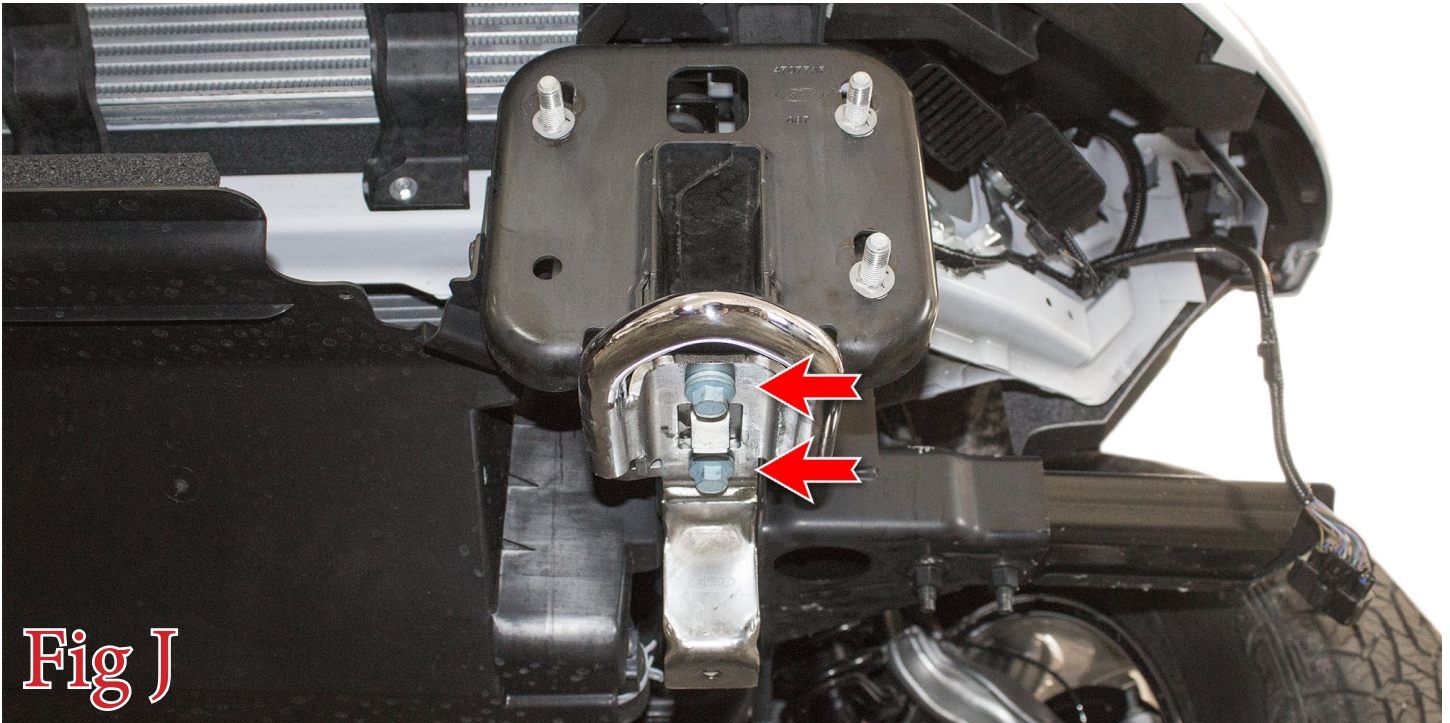


Fig J

11. Using a 15mm Socket, remove the crash bar mounting bolts (2 per side). Then, remove the crash bars from the vehicle. (Fig K)

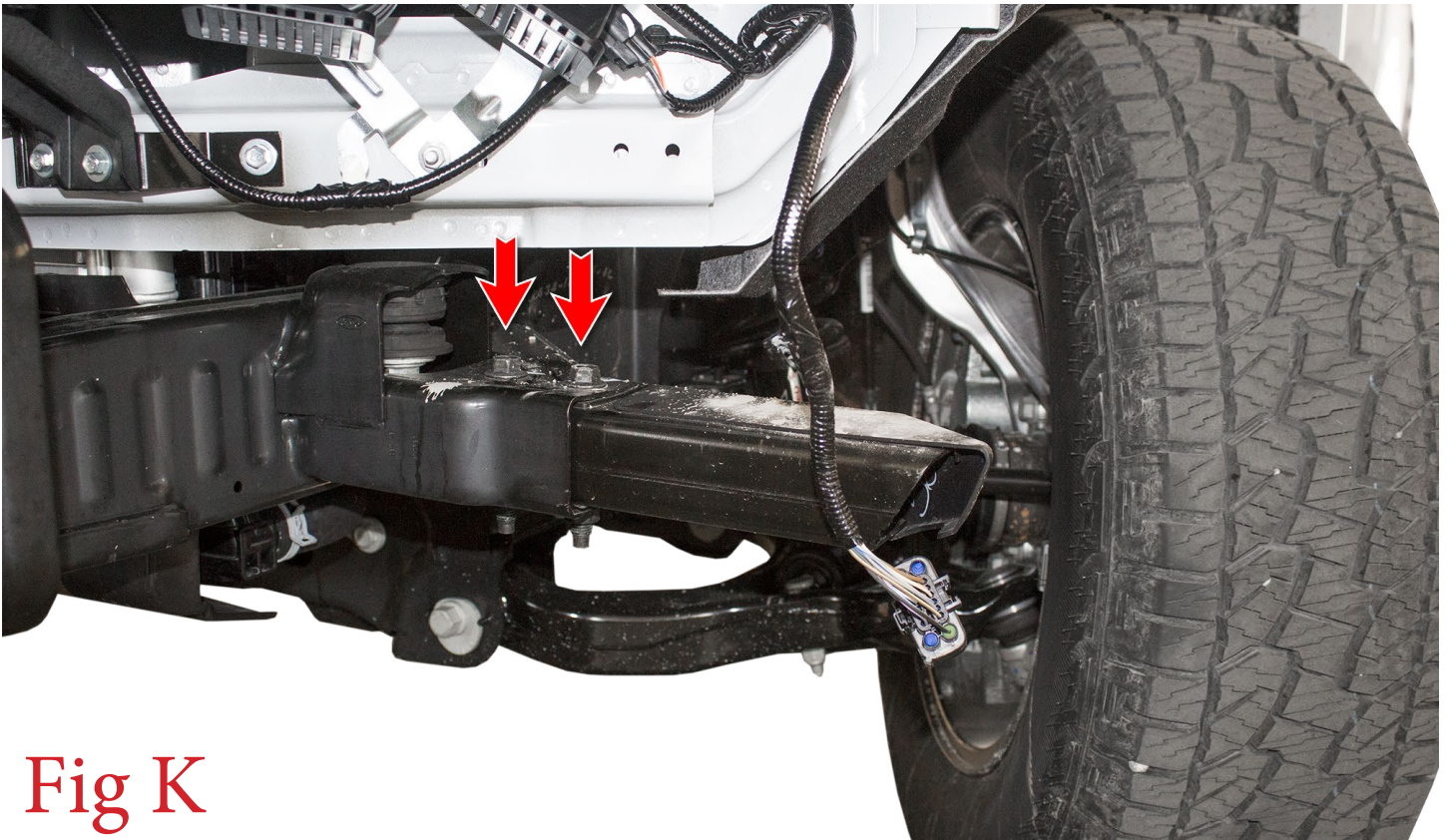


Fig K

12. Remove the two plastic clips (per side) referenced in (Fig L). Then, remove the plastic scoop from the vehicle.

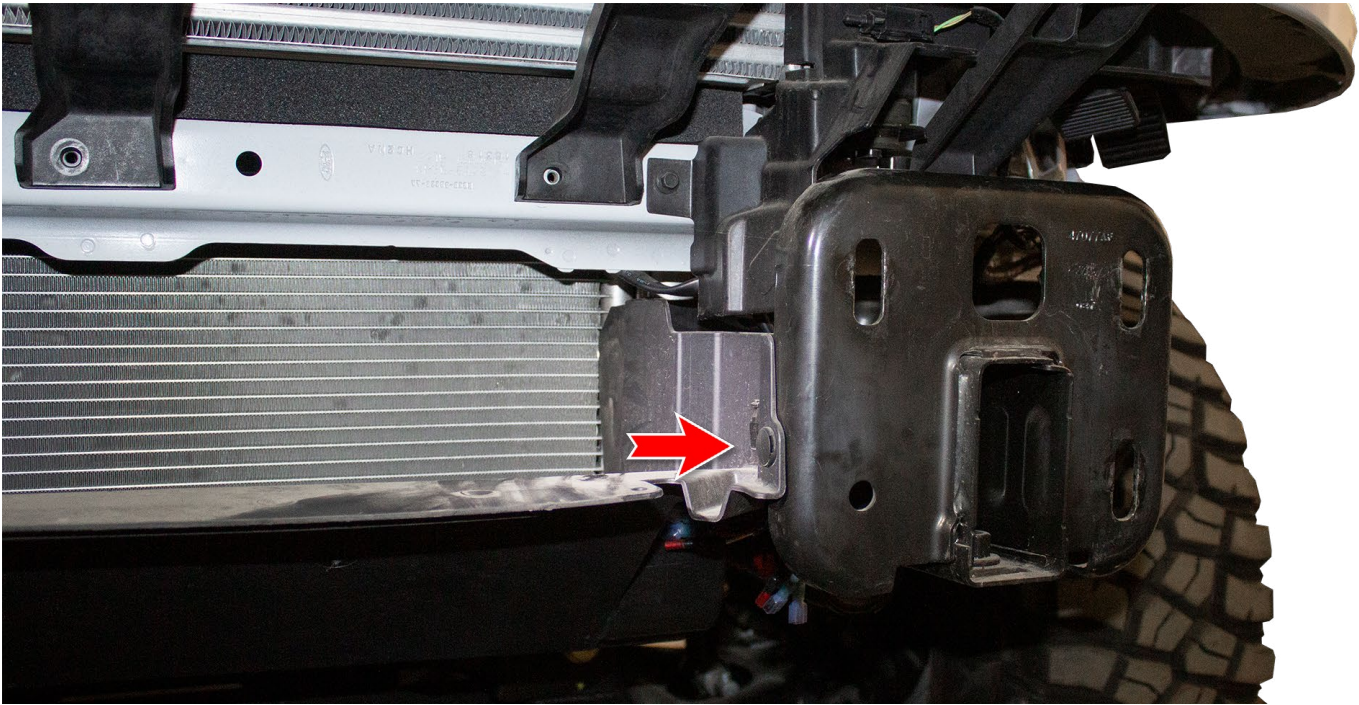


Fig L



13. Remove the parking sensors from the OEM bumper by spreading the two tabs on the back side of the sensor's mounting ring. **Make sure to keep track of the position/orientation these sensors are in so you can reinstall them in the same order/orientation on your new bumper. (Fig M)**

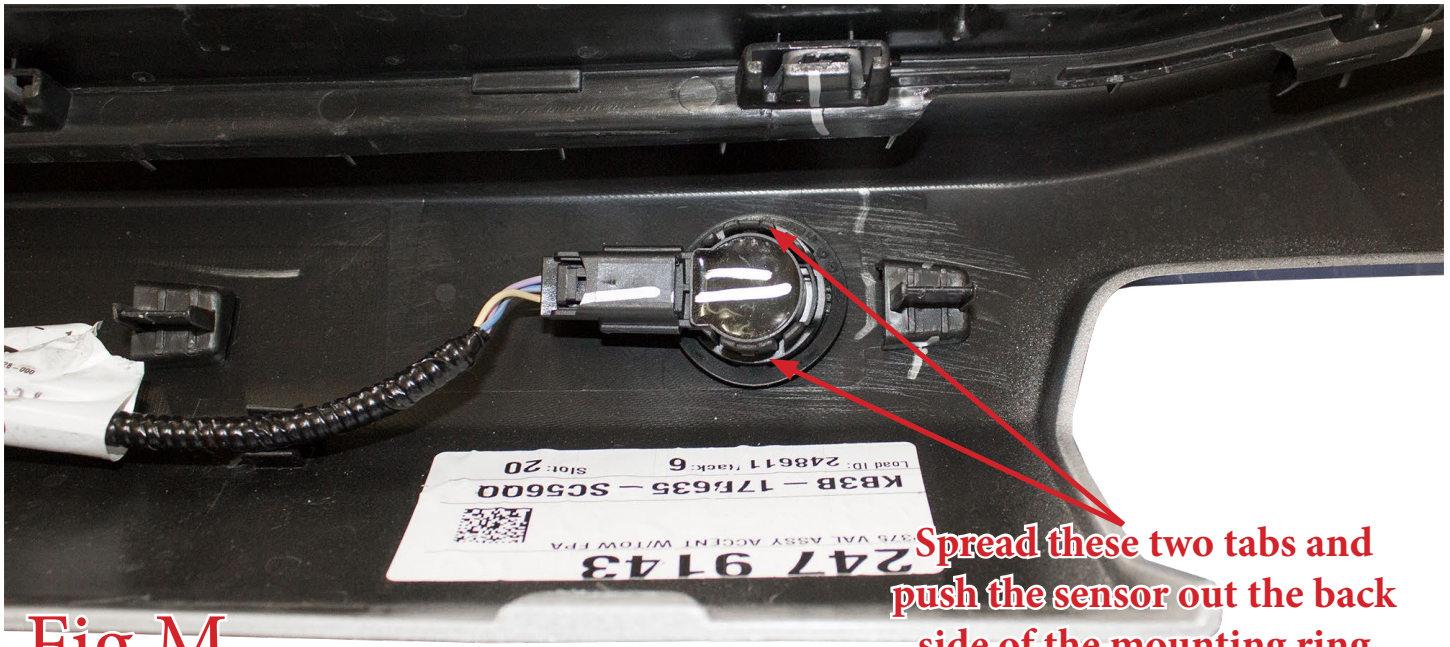


Fig M

14. Press in the two tabs on the back side of the parking sensor mounting ring to release both pieces from the bumper. **Make sure to keep track of the position/orientation these sensors are in so you can reinstall them in the same order/orientation on your new bumper. (Fig N)**

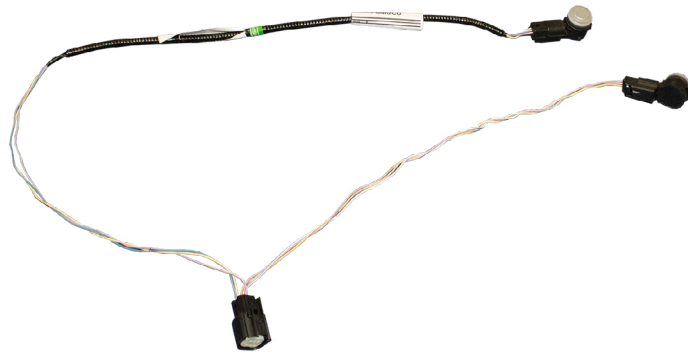


Fig N



15. Split the middle parking sensor harness (with only two parking sensor plugs on it) until it looks like the harness in (Fig O). Then, rewrap the harness in wire loom or electrical tape.

After Splitting



After Rewrapping

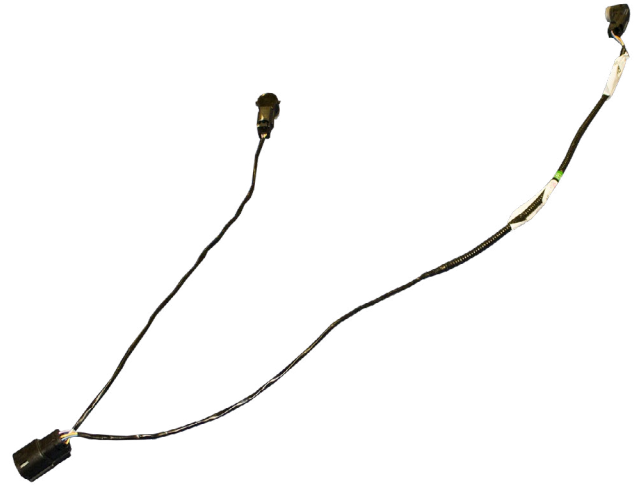


Fig O



Installation:

16. Mount any lights you have on your new bumper now. This bumper comes with a universal light mount kit that should be used to mount your lights. The install guide can be found here: <https://www.addictivedesertdesigns.com/files/install/ADD-Universal-Light-Mount-Kit-Installation-Instructions.pdf>.

Please follow the light manufacturer's install guide for wiring information.

17. Install the parking sensor mounting rings into your new bumper by pressing the front piece into its precut hole from the front, then locking it into place from the back with the second piece of the mounting ring. With the rings in place, push the sensors in from the back side of the bumper. Route the wire harness as you install the sensors. **Make sure to install the sensors/rings in the same order/orientation as they came off the OEM bumper.** (Fig P)



Fig P

18. Install the supplied 3/8" U-Nuts (x6) onto your new bumper. (Fig Q)

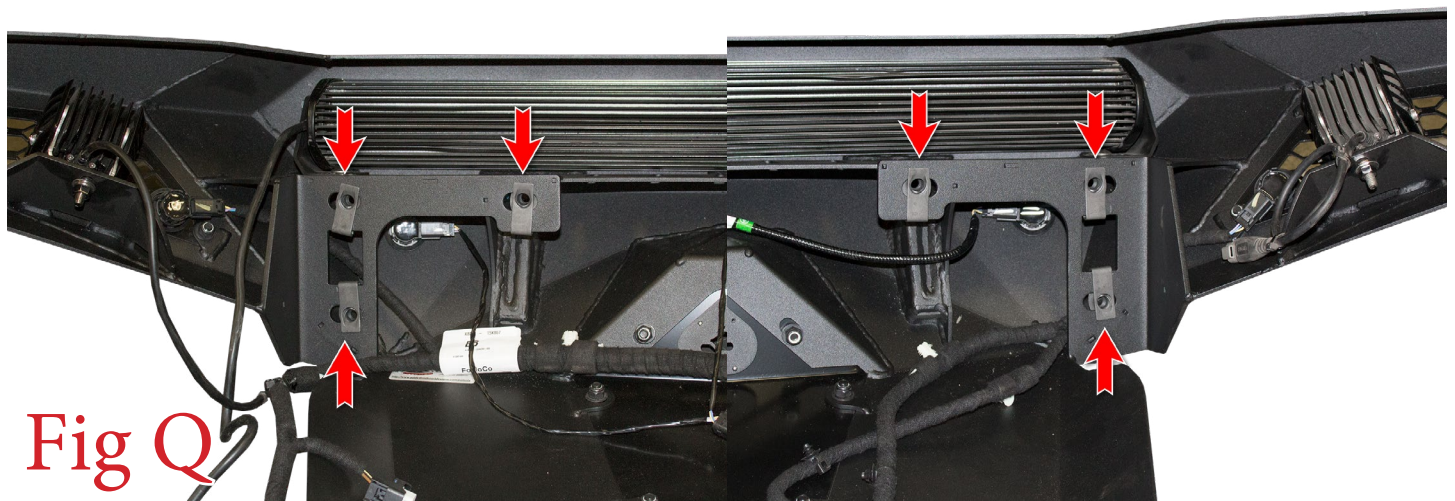


Fig Q



19. Remove the OEM Stud Assemblies from the vehicle's frame horns, so they look like the ones pictured in (Fig R)



Fig R

20. Mount your winch to the winch plate using the hardware supplied by the winch manufacturer. (Fig S)

This image shows the assembly from the back side



Fig S

21. Install your winch failead onto your bumper. Use the hardware and install guide supplied by the winch fairlead manufacturer.

22. Set the winch plate on the vehicle. Secure it using the supplied M12 Bolts and M12 Washers (2 per side). Leave these bolts loose for now. (Fig T)

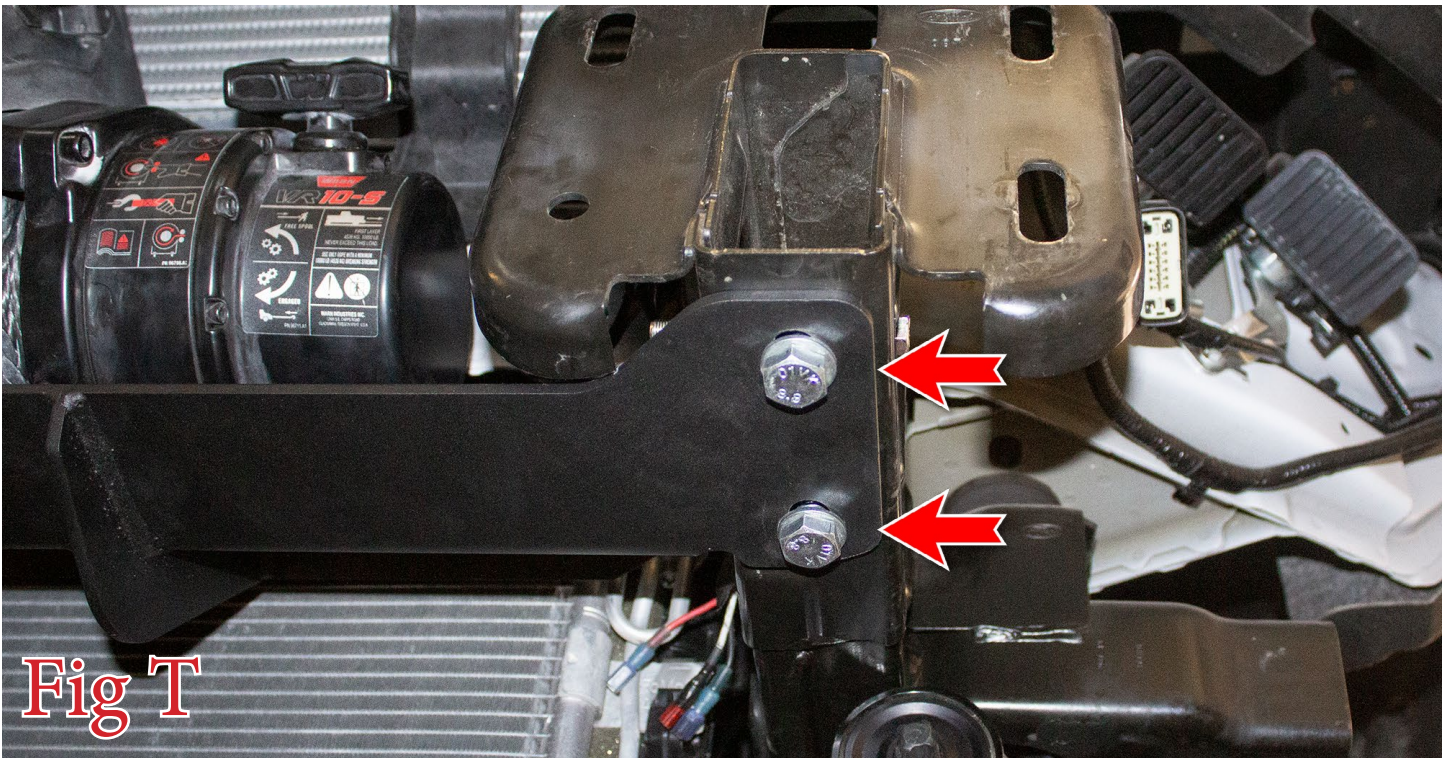


Fig T

23. Install the supplied 3/8" x 3 1/2" Bolts (1 per side), 3/8" Washers (2 per side), and 3/8" Metal Lock Nuts (1 per side) through the frame and into the final mounting hole on each side of the winch plate. Torque these bolts to 37 foot pounds. Then, torque the bolts from Step 22 to 100 foot pounds. (Fig U)

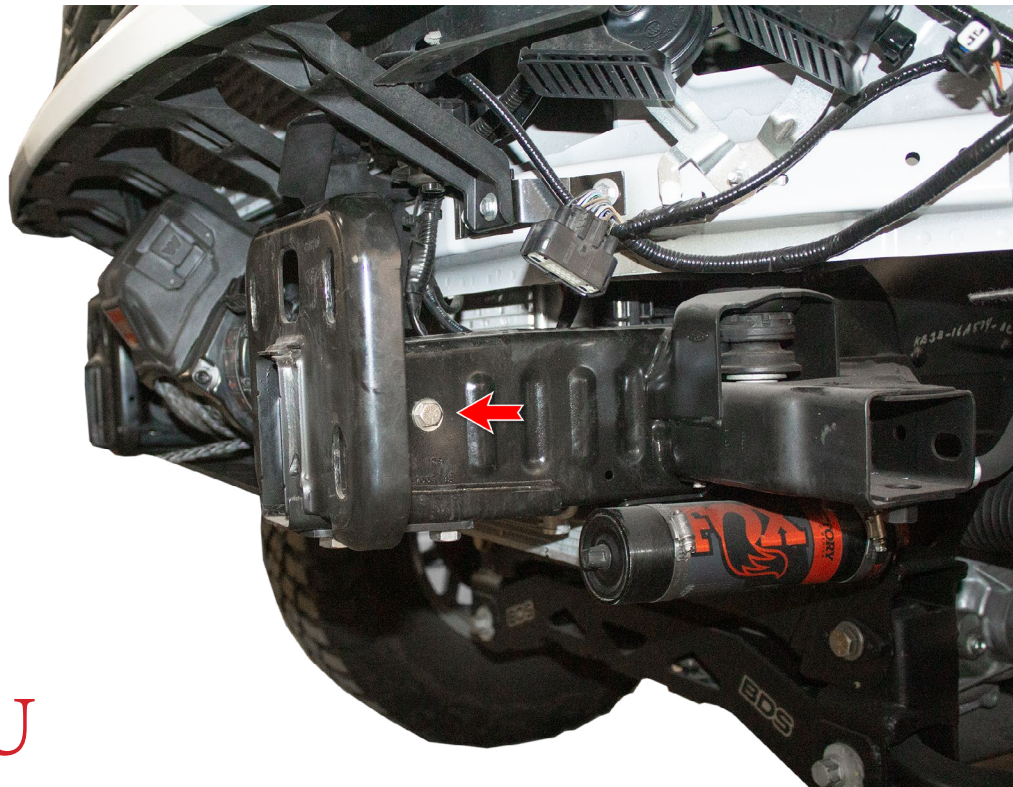


Fig U



24. Set the bumper in place on the vehicle. Then, secure it using the supplied 3/8" Bolts (x6) and 3/8" Fender Washers (x6). Install them from the back side of the frame horns into the newly installed U-Nuts. Leave these bolts loose for now. (Fig V)

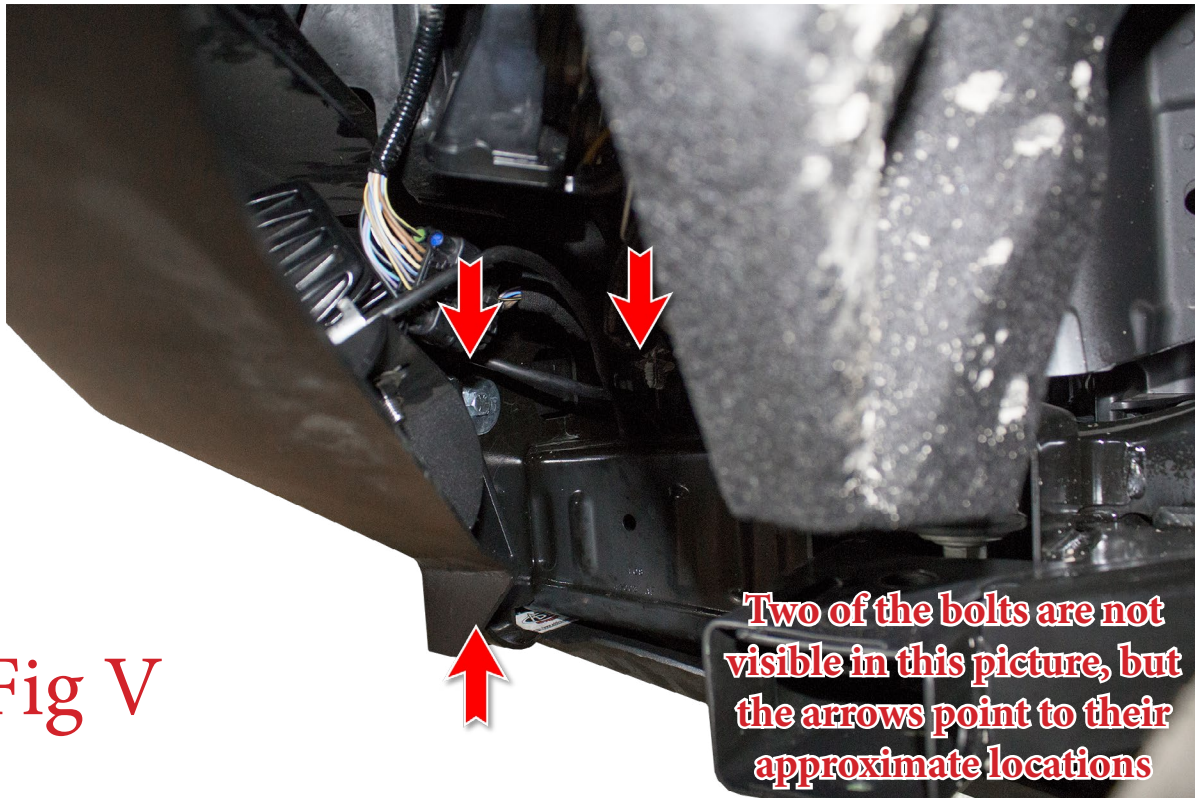


Fig V

25. Use two of the bolts from Step 1 in the skid plate mounting holes on your new bumper. (Fig W)





26. Align your bumper so it is centered left to right and straight in relation to the valance. Then, tighten the supplied 3/8" Bolts to 25 foot pounds and the OEM skid plate bolts to OEM torque spec.
27. Use the winch manufacturer's installation guide to wire your winch.
28. Stand back and enjoy your new ADD Stealth Fighter™ Front Bumper.
29. Check and re-tighten, if needed, all mounting bolts after 100 miles and periodically thereafter.

