



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: **1 Hour if Relocating ACC as Part of a Bumper Replacement**
2 Hours for ACC Relocation Only

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

You will need the following tools:

- | | | |
|---------------------------|-----------------------------|-------------------------|
| - Ratchet | - 10mm Socket | - 11mm Socket |
| - E6 External Torx Socket | - 3/8" Drill Bit | - Drill |
| - 1 1/2" Hole Saw | - 7/32" Allen Wrench/Socket | - 7/16" Socket & Wrench |
| - 9/16" Socket & Wrench | | |

Included in Kit:

- | | |
|---|--|
| 2 - Hex Head Bolts (3/8-24 x 2 1/2") | 3 - Hex Head Bolts (3/8-24 x 1") |
| 3 - Metal Lock Nuts (3/8"-24) | 6 - Button Head Bolts (3/8-16 x 3/4") |
| 6 - Nylon Lock Nuts (3/8"-16) | 12 - Flat Washers (3/8") |
| 4 - Machined Spacers (3/8") | 1 - Drilling Template Washer (3/8") |
| 2 - Hex Head Bolts (1/4"-20 x 3/4") | 1 - Carriage Bolt (1/4-20 x 3/4") |
| 5 - Flat Washers (1/4") | 3 - Nylon Lock Nut (1/4"-20) |
| 1 - Relocation Bracket Upper Piece | 1 - Relocation Bracket Lower Piece |
| 1 - Cruise Module Conversion Plate 1 | 1 - Cruise Module Conversion Plate 2 |

******This kit covers more than one make and model of truck. If there is unused hardware at the end of the installation, it is most likely hardware that is used on a different model truck than the installation was performed on.******

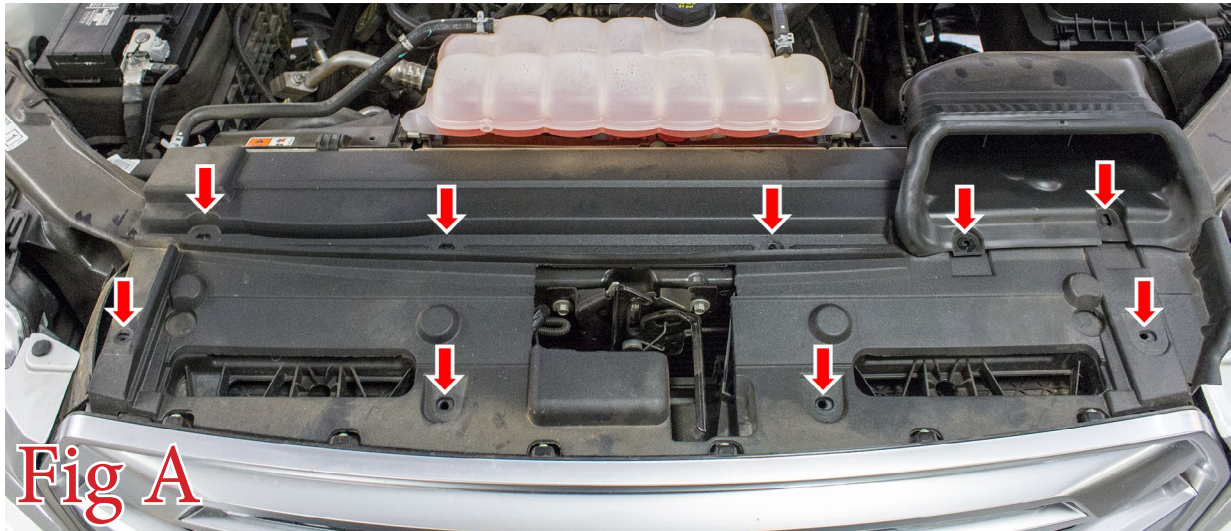
******By installing this product, you are accepting liability for potential changes in the characteristics/sensitivity of your adaptive cruise control system. If you do not wish to install this product, you may return it for a full refund.******

******After the installation of this product, your adaptive cruise control module may have to be recalibrated by a Ford technician.******

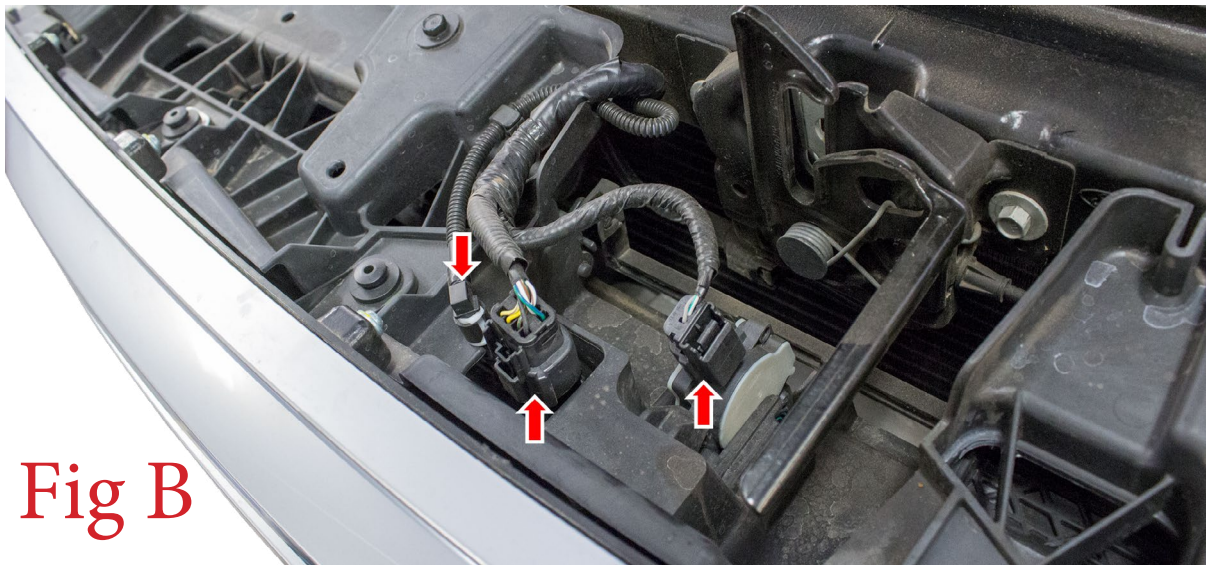


Removal:

1. Remove the plastic clips that hold on the radiator cover. Then, remove the radiator cover. (Fig A)



2. Unplug the two connectors and undo the water line that are underneath the radiator cover. (Fig B)

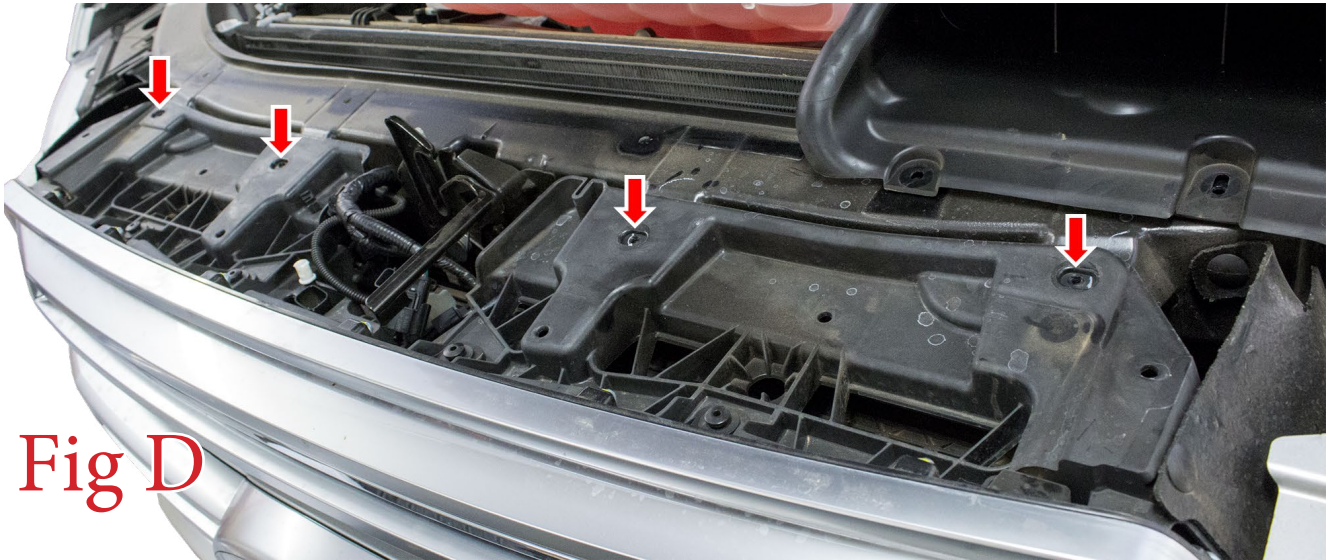


3. Pull the plastic clip that holds grille harness to the grille. (Fig C)

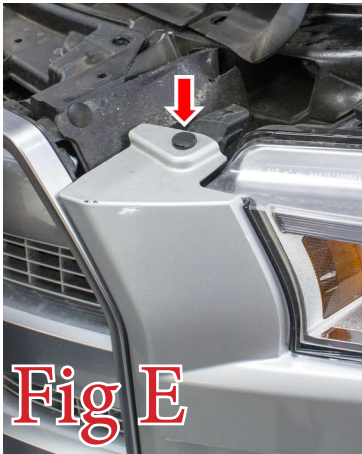




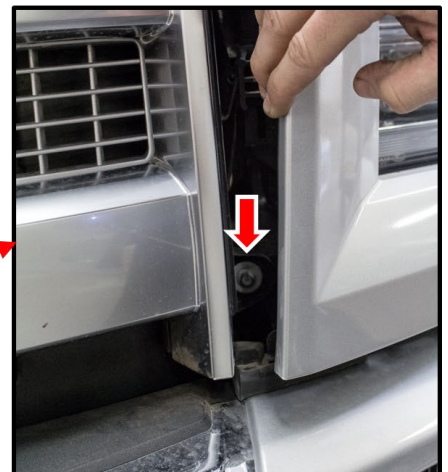
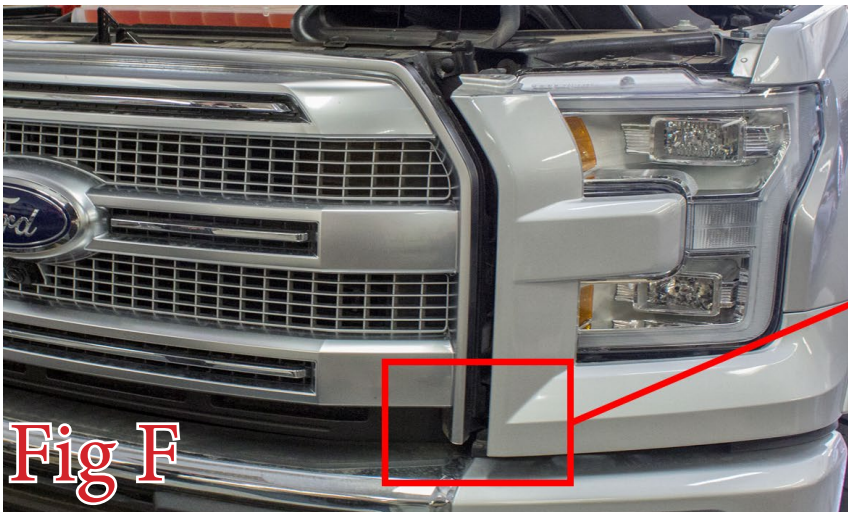
4. Using a 10mm Socket, remove the grille bolts (x4). (Fig D)



5. Remove the plastic slip on the top portion of the headlight bezel. Then, peel the side of the headlight bezel that touches the grille back enough to get to the plastic clips and bolts it was blocking. Repeat this step on the other side of the truck. (Fig E)

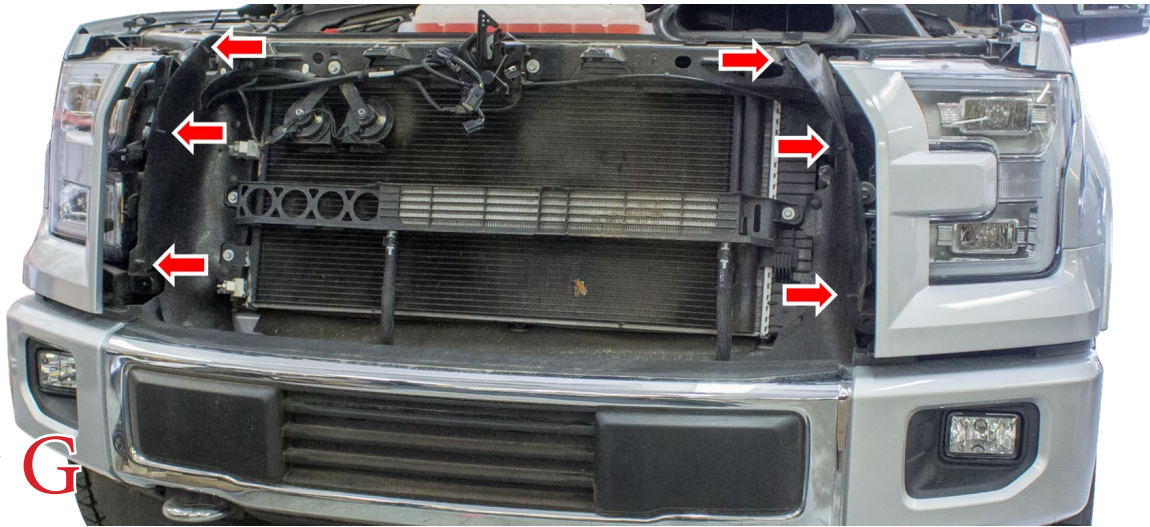


6. Using a 10mm Socket, remove the lower grille bolts. (Fig F)

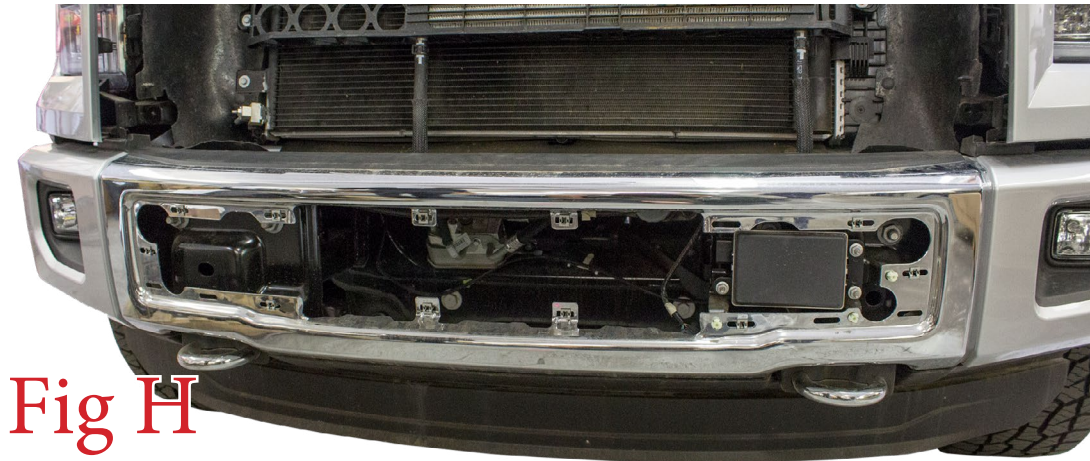




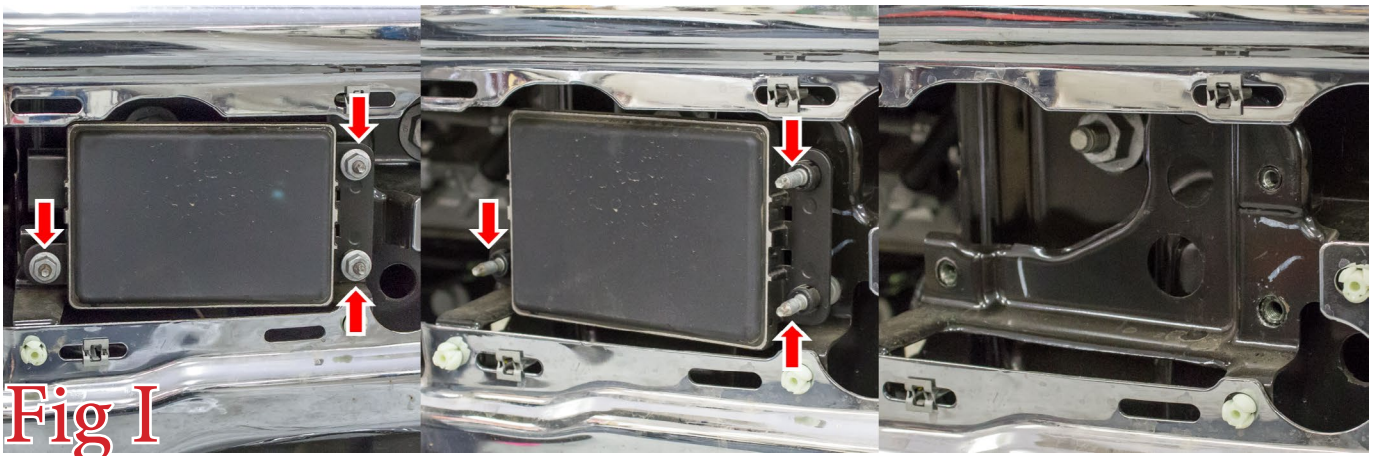
7. Remove the plastic clips that hold the rubber shroud to the grille (3 per side), then lift the grille up and out of the vehicle. (Fig G)



8. Pull the front plastic piece off of the front bumper. There are no tools required for this step, this piece pulls off by hand. (Fig H)

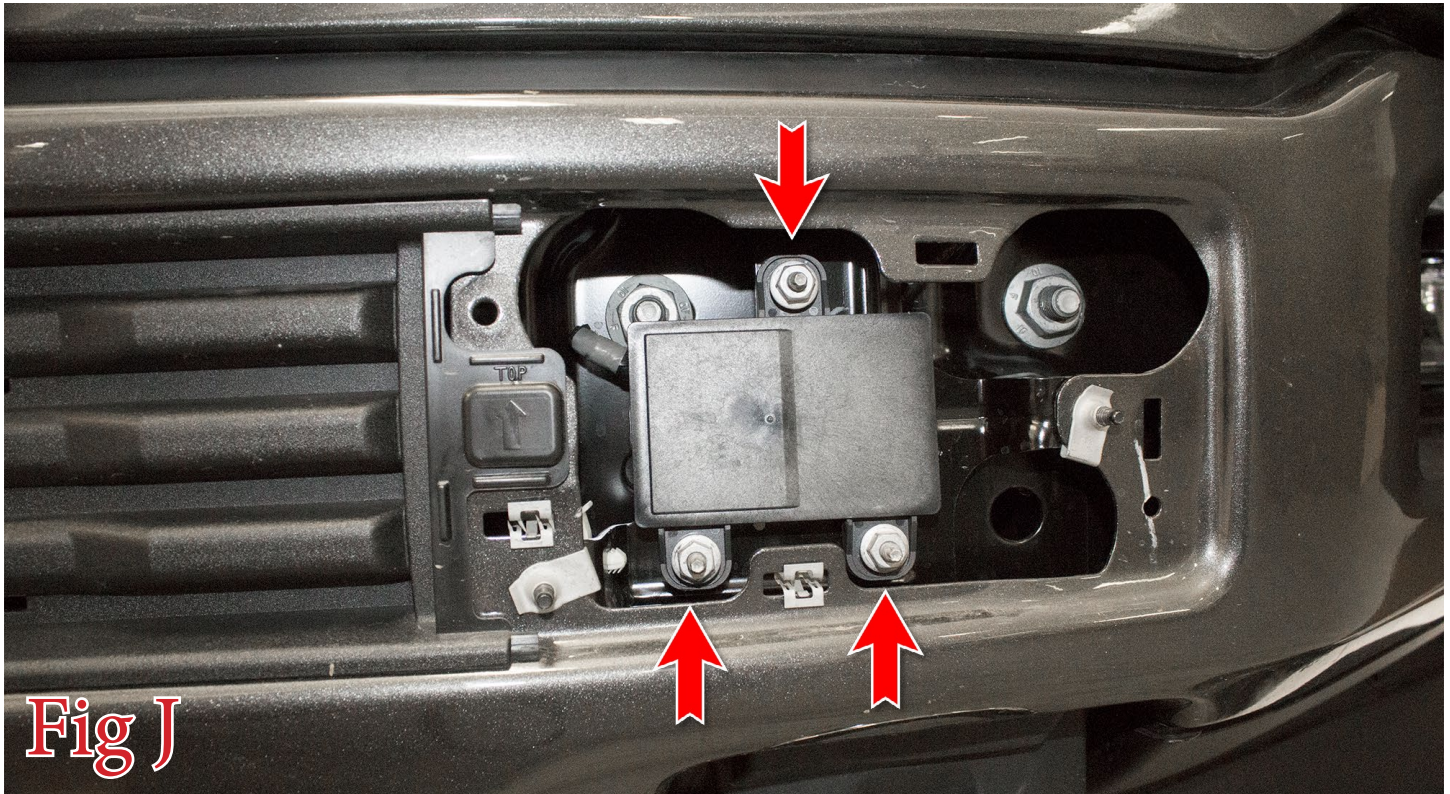


9. Remove the adaptive cruise control module mounting nuts (x3) with an 11mm socket, unplug the module connector, remove the module mounting studs with an E6 external torx socket (x3), then remove the module from your truck. (Fig I)





10. There are two styles of adaptive cruise control modules. If your module does not look like the one in Step 9, your mounting nuts will be in a different position, but the **removal procedure will be exactly the same as in Step 9.** (Fig J)



11. Remove the stud/plastic sleeve from the Adaptive Cruise Module. (Fig K)





12. Remove the driver side grille shutters from the back side of the grille. To do this, remove the outer peg from its hole by bending the middle portion of the shutter outwards until there is enough clearance to release the peg. Then, rotate the shutter towards the front of the grille to release the outer pegs. When you are done, your grille should look like (Fig L)

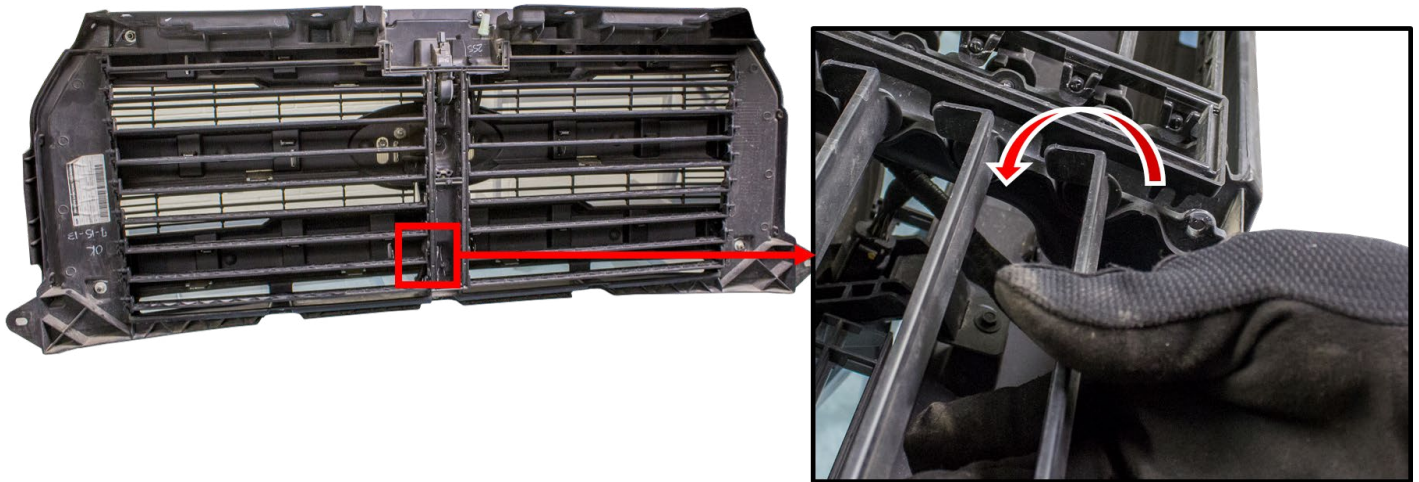
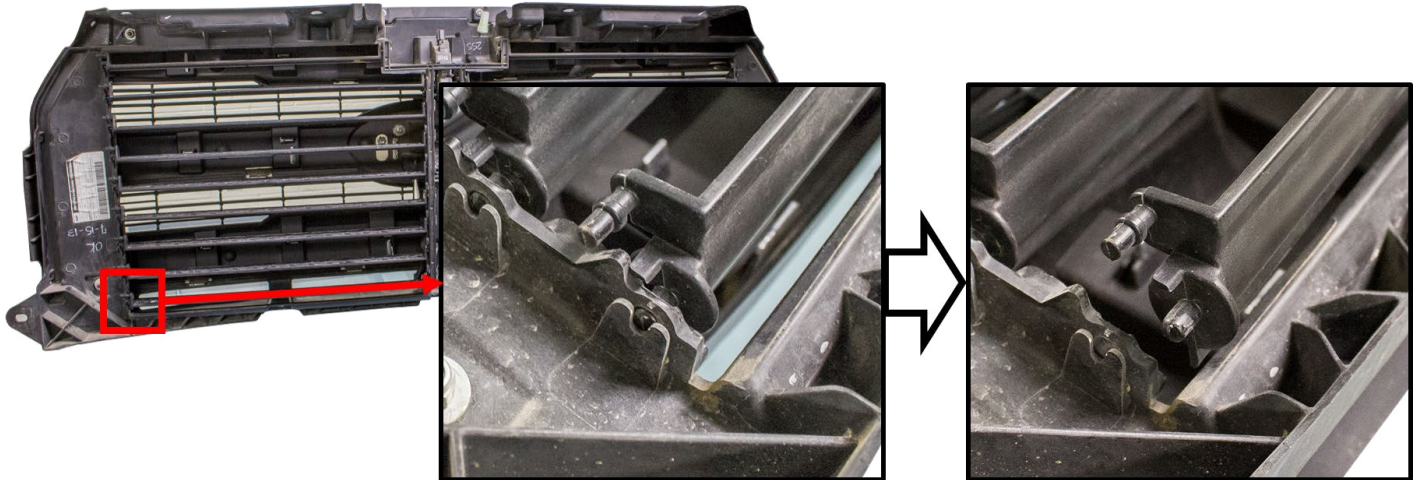


Fig L

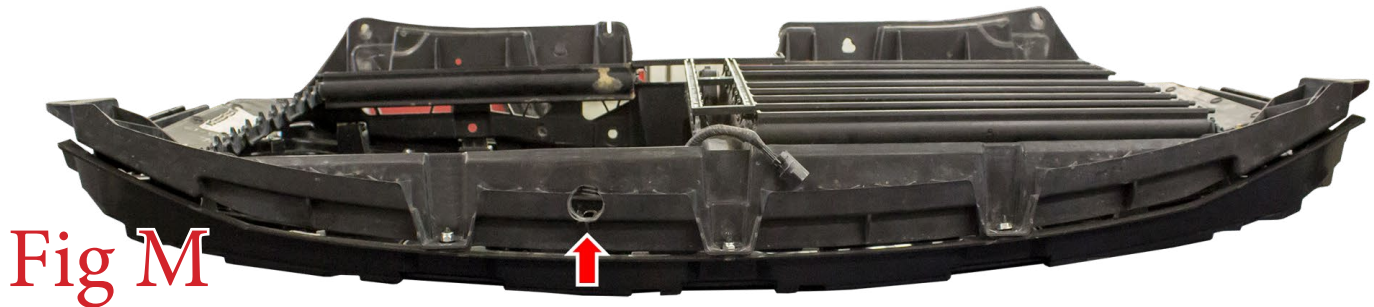


13. Prepare to install your new ADD Adaptive Cruise Control Relocation Bracket.



Installation:

14. Using a 1 1/2" hole saw, drill a hole in the bottom of your grille in the location shown in (Fig M)



15. Assemble your relocation bracket. For this step you will need a 7/16" socket and wrench. Use the supplied 1/4" Hex Head Bolts (x2), 1/4" Washers (x4), and 1/4" Nylon Lock Nuts (x2) on the non-slotted holes. For the slotted hole, use the supplied 1/4" Carriage Bolt (x1), 1/4" Washer (x1), and 1/4" Nylon Lock Nut (x1). (Fig N)

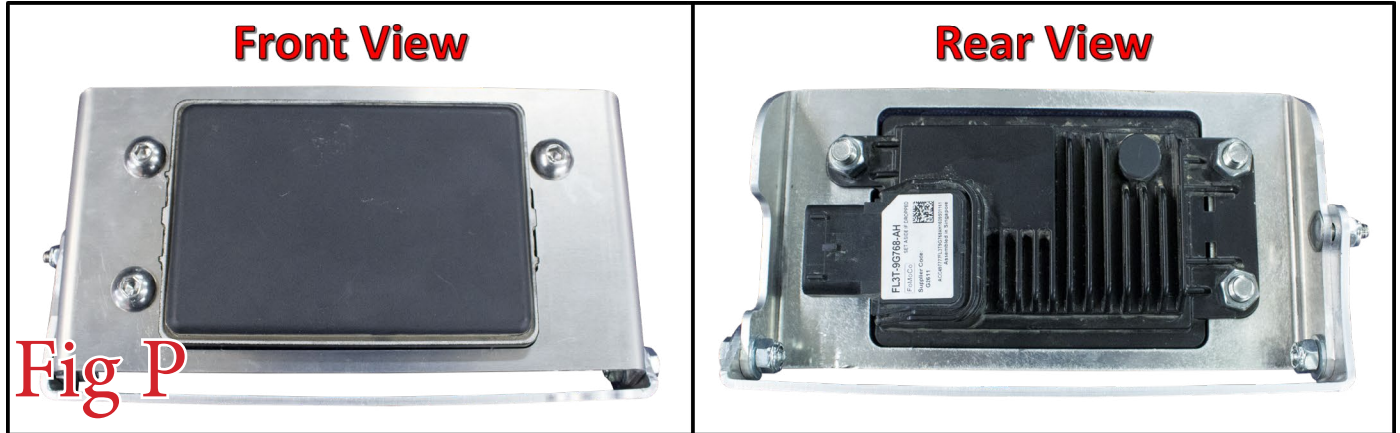


16. The recommended starting point for the slotted hole is center slot. Once everything is installed, you can adjust that to preference. Once all of the mounting bolts are in place, go back and tighten them all to 8 foot pounds. (Fig O)

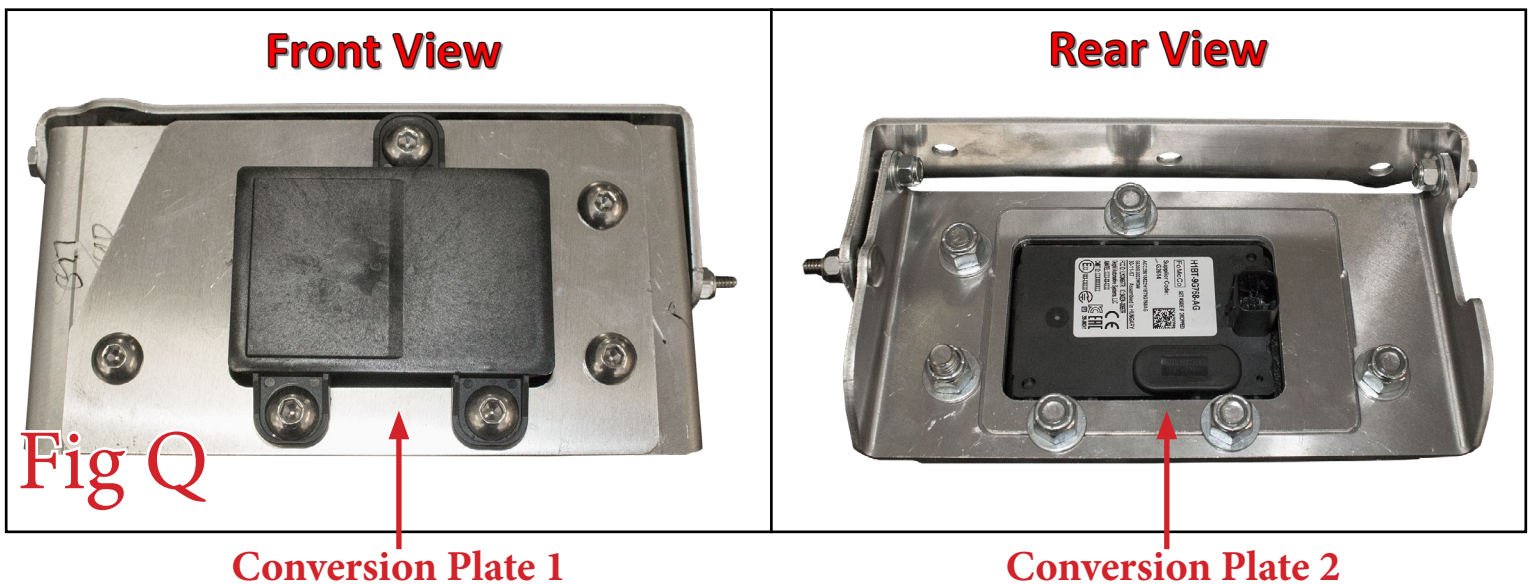




17. If your Cruise Module does not look like the one pictured in (Fig P), skip this step. Bolt your Adaptive Cruise Control Module to the Relocation Bracket. Use a 7/32" Allen Wrench and a 9/16" Wrench with the supplied 3/8" Button Head Bolts (x3) and 3/8" Lock Nuts (x3). Once all bolts are loosely installed, torque them to 20 foot pounds. (Fig P)



18. If your Cruise Module does not look like the one pictured in (Fig Q), skip this step. Find both Conversion Plates and attach your Cruise Module to the Relocation Bracket as shown in (Fig Q). Use a 7/32" Allen Wrench and a 9/16" Wrench with the supplied 3/8" Button Head Bolts (x6), 3/8" Washers (x6), and 3/8" Lock Nuts (x6). Once all bolts are loosely installed, torque them to 20 foot pounds.





19. Remove the two clips referenced in (Fig R). Then, use the supplied Drilling Template Washer as a template to drill the middle mounting hole for the Relocation Bracket. Use a 3/8" Drill Bit to drill this hole.

Remove the clips from these locations



Fig R

Drill the third hole here

20. Bolt the Bracket/Module assembly to your grille. For each of the outer mounting bolts, use one of the supplied 3/8" x 1" Hex Head Bolts (x1), 3/8" Washers (x2), Machined Spacers (x2), and 3/8" Metal Lock Nuts (x1). For the center mounting bolt, use the supplied 3/8" x 1" Hex Head Bolt (x1), 3/8" Washers (x2), Drilling Template Washer (x1), and 3/8" Metal Lock Nut (x1). Refer to (Fig S) for hardware mounting order. Once all bolts are loosely installed, torque them to 20 foot pounds.

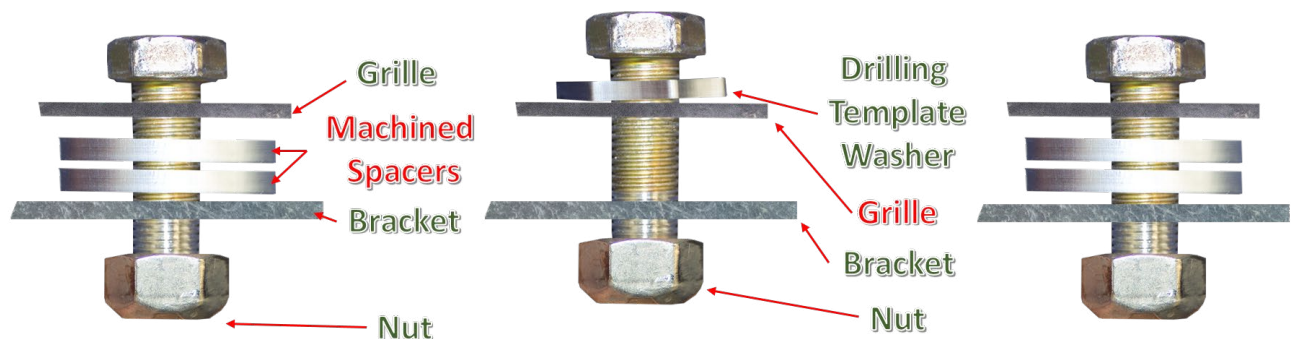
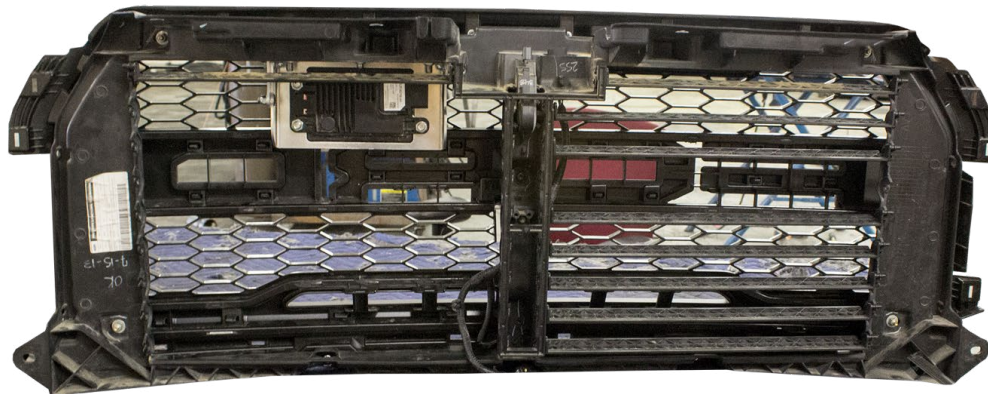


Fig S



21. Pull the module harness up into the grille area. (Fig T)



Fig T

22. Reinstall the grille shutters, but leave the last few (towards the top of the grille) off so you can still access the module. Then, take the grille over to the vehicle, fish the module connector through the 1 1/2" hole you drilled earlier, between the shutters and the grille, and plug the harness into the module. Once the connector is plugged in, reinstall the rest of the shutters. (Fig U)

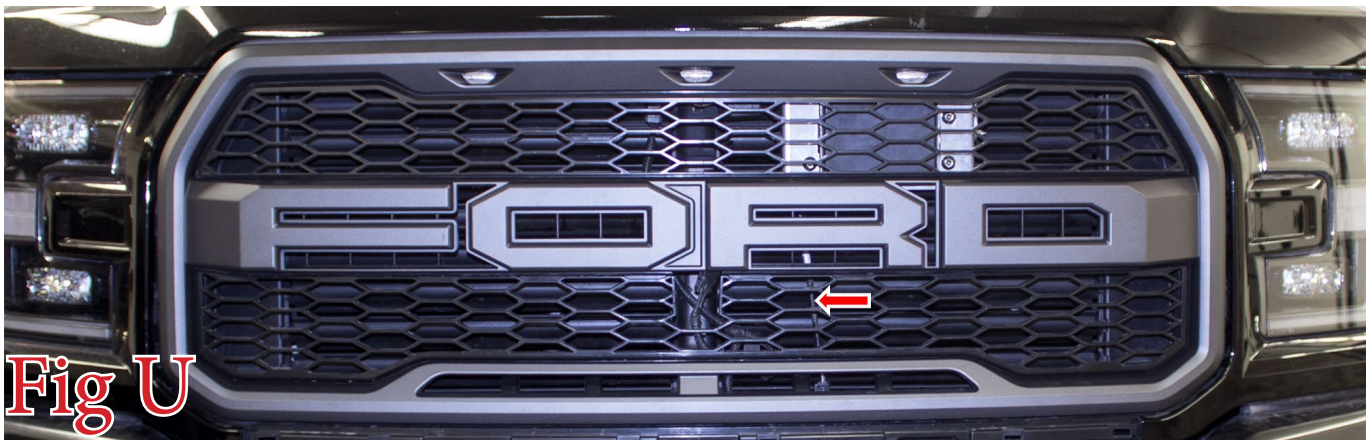


Fig U



23. Reinstall your grill by reversing Steps 1 - 7.
24. Reinstall the plastic piece you removed from your front bumper.
25. If your adaptive cruise control is not sensitive enough, go back and readjust its position. Do this by adjusting where the bolt from Step 16 is sitting within the slotted hole. Face the module more towards the ground to make it more sensitive and face it more towards the sky to make it less sensitive.
26. Stand back and enjoy your new ADD Adaptive Cruise Control Module Relocation Bracket.

