

Parts Included:	Qty
RDB Bumper	1
Adaptive Cruise Control Brkt	1
<b>Hardware Prt# F18RDB-KIT</b>	
1/2"X 1" Hex bolt	6
1/2"x1" Nuts	6
1/2" Fender washer	12
M6x20mm Button head	3
M6 Nuts	3
M5x20mm self-tapper	2



**ATTENTION!** Be aware that relocating the adaptive cruise control (ACC) module may change the characteristics & sensitivity of the system. ACC is designed to enhance the driving experience, but is not a replacement for responsible operation of the vehicle. PLEASE DRIVE SAFELY!

### Grill Removal:

1. Remove the x 10 push pins that attach the radiator cover and remove.



2. Remove the x4 bolts that attach the grill to the core support.



3. Remove the push pin that attaches the head light bezel to the core support.  
4. Carefully pull forward and out to remove the bezel. (Bothe sides)



5. Unplug the two electrical connectors and undo the water line that is under the radiator cover.
6. Remove the clips that attach the harness to the grill.



7. Remove the plastic clips that attach the rubber shroud to the grill.



8. Remove the lower bolt that attaches the grill to the core support. (Bothe sides)
9. Carefully remove the grill and set aside.



### **Bumper Removal**

1. Carefully pull the plastic cover off the bumper by releasing the clips with a forward motion. This can be done by hand, no tool needed.



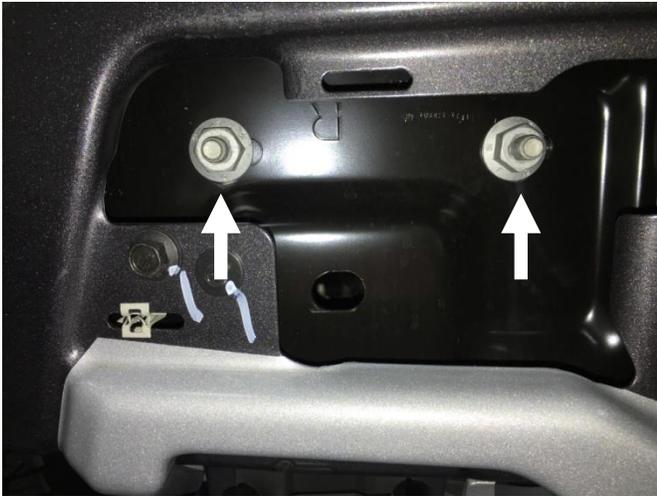
2. Remove the x3 nuts holding the Adaptive Cruise Control module on the studs.
3. Disconnect the electrical plug and remove the module.
4. Remove the module harness from the bumper and set aside.



5. Remove the 8mm bolt that attaches the support bar to the bumper. (Bothe sides)



6. Remove the 21mm nuts that hold the bumper. There will be two per side that can be reached from the front and one on both sides that is accessible from behind the bumper.
7. Remove the plastic clips that attach the rubber shroud to the bumper and remove.



8. Remove the two bolts that hold the inner cooler cross brace,
9. With a flat head screw driver, pop the two rivets that attach support bar to the inner cooler brace and remove. (Both sides) **Note: Do not remove the cross brace.**



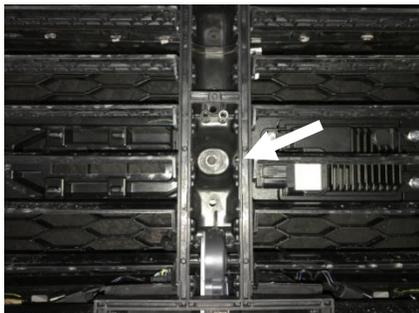
## **Adaptive Cruise Control Relocation Bracket Install.**

*(If your truck is not equipped with Adaptive Cruise Control, skip this step.)*

1. Place the grill face down on a soft blanket to prevent any damage or scratches.
2. With a 10mm socket wrench, loosen the four nuts located on all four corners in the grill.

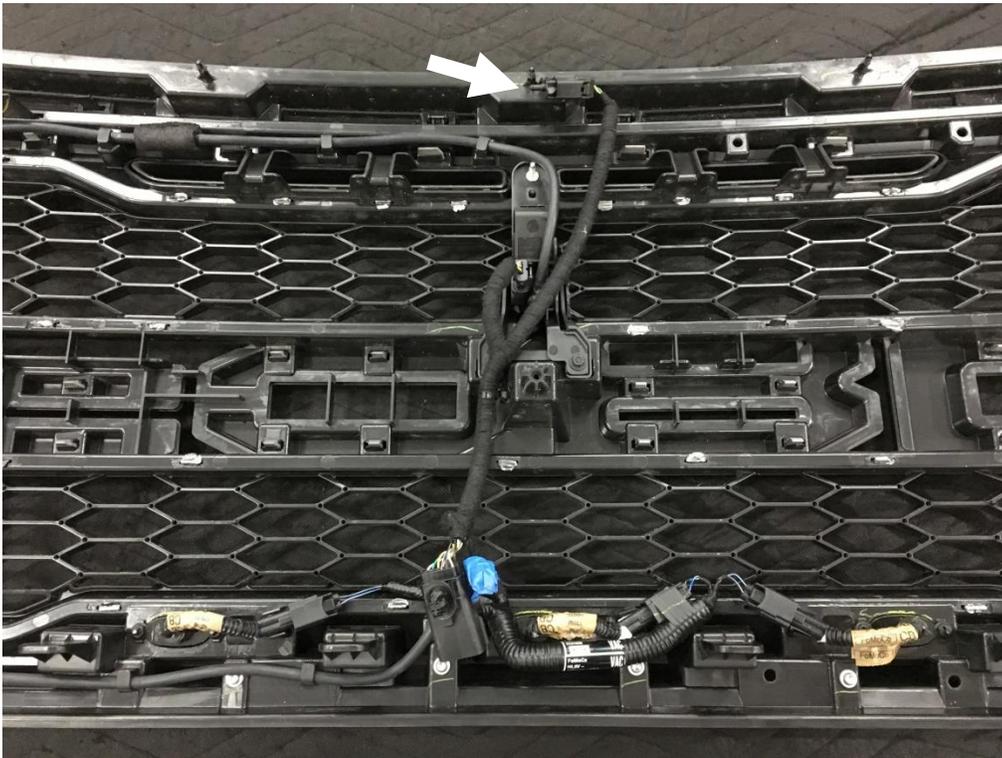


3. With an 8mm socket wrench remove the bolt located in the center of the grill.
4. Remove the three hex nut clips.

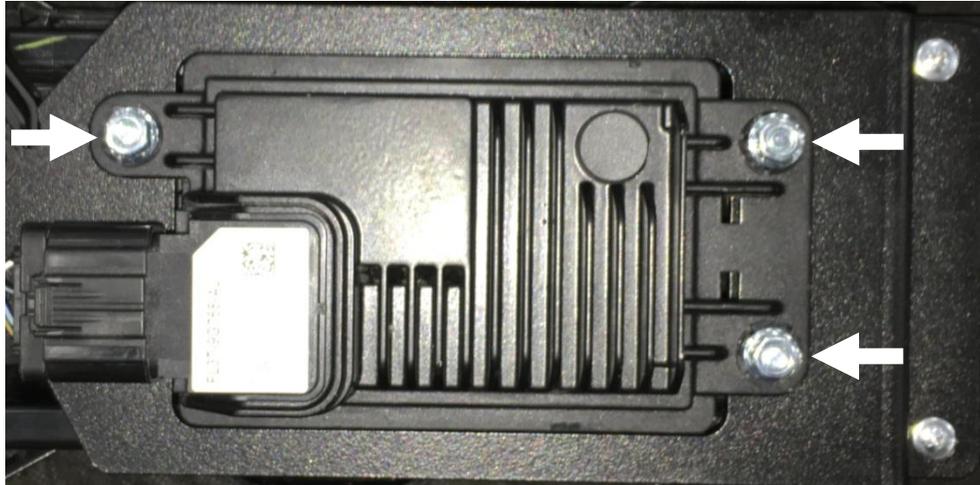


5. Release the electrical plug from the grill.

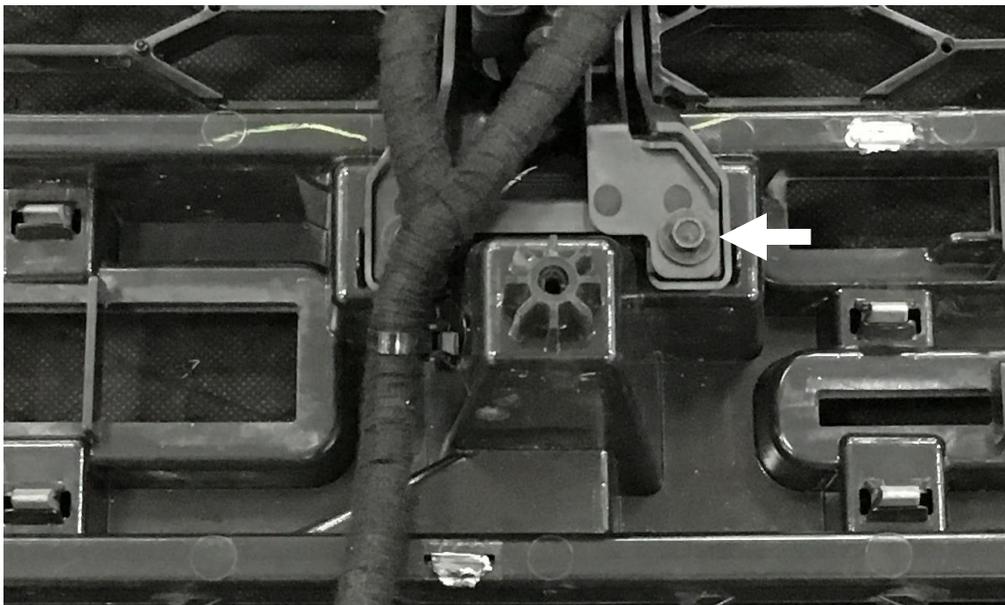
6. As you are separating the shudders from the grill there will an electrical plug to discount.



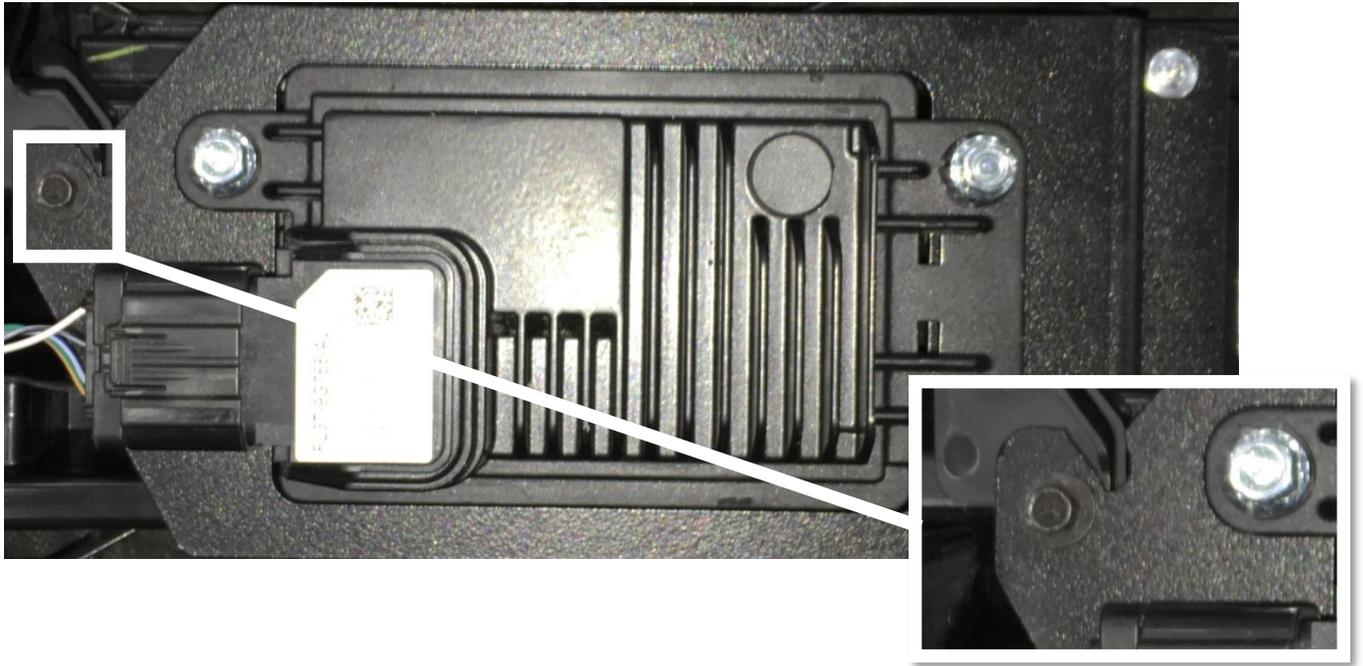
7. Using the supplied M6x20mm button head bolts and flanged nuts install the radar module to the relocation bracket.



8. Remove the 6mm bolt located in the center of the grill and discard.



9. Mount the bracket to the grill by lining up with the hole that you removed the 6mm bolt from in step-8.  
**NOTE: The Radar should be facing forwards in the grill so it is seen from the outside.**



10. Using the supplied M6x20 hex screw and M6x15mm self-taping screws secure bracket to the grill.  
11. Plug the electrical harness back into the module and run it down to the bottom of the grill



**12.** Using a 1 ½" hole saw, drill a hole in the bottom of your grill for the module harness plug to pass through.



**13.** Add a couple of zip ties to secure the harnesses to the center of your grill making sure the module harness connector is accessible through the hole you drilled.

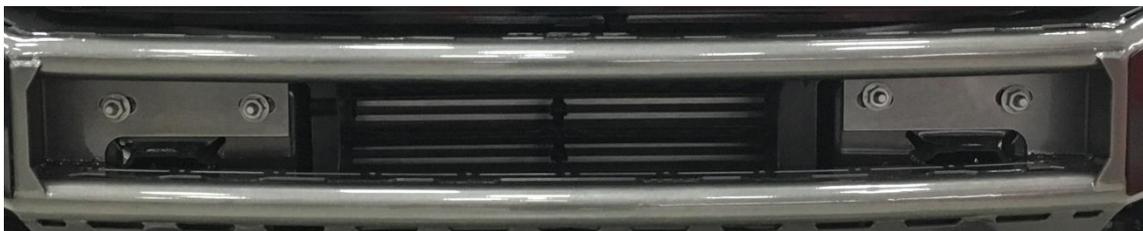


**14.** Re-install the shutter assembly back to your grill. Be sure all the electrical connections inside the grill are plugged back in before it is completely secured.



### **F181MRDB Bumper Install:**

- 1.** With some additional help carefully mate **F181MRDB** bumper up to the factor mounting location on the frame. You will have to navigate the rear bumper braces around the frame horns up to the factor mounting locations.
- 2.** Using the supplied  $\frac{1}{2}$ "x1" Hex bolts, nuts and washers secure the bumper and top braces. Leave all hardware loose at this time.





PART NUMBER: **F181MRDB**  
PRODUCT: **RDS BUMPER**  
**NO SKID PLATE**  
APPLICATION: **17-XX FORD**  
**F-150 RAPTOR**

3. Adjust bumper where the outer ends are nice and flush under the head lights.
  4. Fully tighten frame bolts first and then upper brace mounts.
- NOTE: You may have to trim the inner cooler shroud to fit aftermarket LED lighting.**



5. Re-install factory grill and head light bezels and secure.
6. Connect the radar electrical plug that you relocated in steps 12-14.
7. Your install is now complete.

