

# ADDICTIVE DESERT DESIGNS

## 2017 – Current Ford Raptor Race Series R Front Bumper Installation Instructions

### PREPARATION

1. Disconnect the negative terminal on the battery. Park the vehicle on level ground and set the emergency brake.
2. We recommend reading through the installation instructions in whole before performing the work.
3. Estimated Installation Time: **2 Hours**
4. You will need the following tools:

- a. Ratchet
- b. 3/4" Socket and Wrench
- c. 9/16" Socket
- d. E6 External Torx Socket
- e. 8mm Socket
- f. 11mm Socket
- g. 13mm Socket
- h. 15mm Socket
- i. 21mm Socket

*Note: this installation requires 2 people for best results*

5. Included in Kit:
  - 4 – Hex Head Bolts – 1/2"-13 x 1 1/2"
  - 8 – Flat Washers – 1/2"
  - 4 – Nylon Locking Nuts – 1/2"-13
  - 2 – Hex Head Bolts – 3/8"-16 x 1 1/2"
  - 4 – Flat Washers – 3/8"
  - 2 – U-Nuts – 3/8"-16
  - 2 – Carriage Bolts – 3/8"-16 x 1"
  - 2 – Nylon Locking Nuts – 3/8"-16

**\*\*AN INTERCOOLER RELOCATION KIT MUST BE INSTALLED TO INSTALL THIS BUMPER\*\***

### REMOVAL

1. Use 13mm and 15mm Sockets to 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. Then, remove the two factory U-nuts that the bottom two skid plate bolts threaded into. (Fig B)



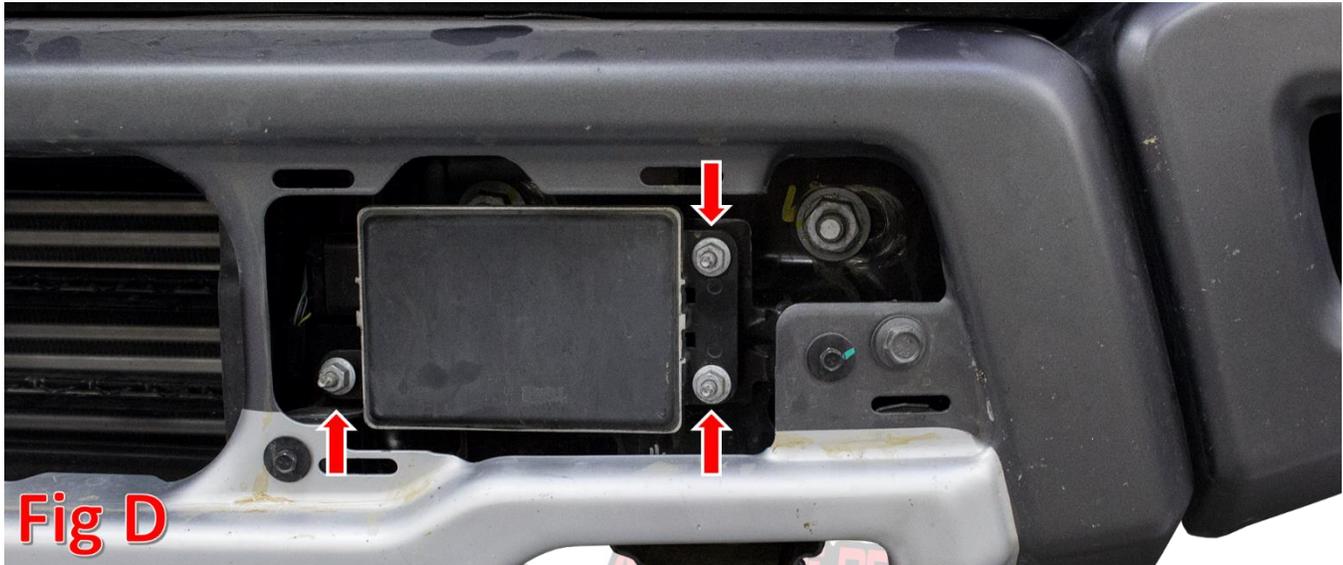
**Fig B**

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

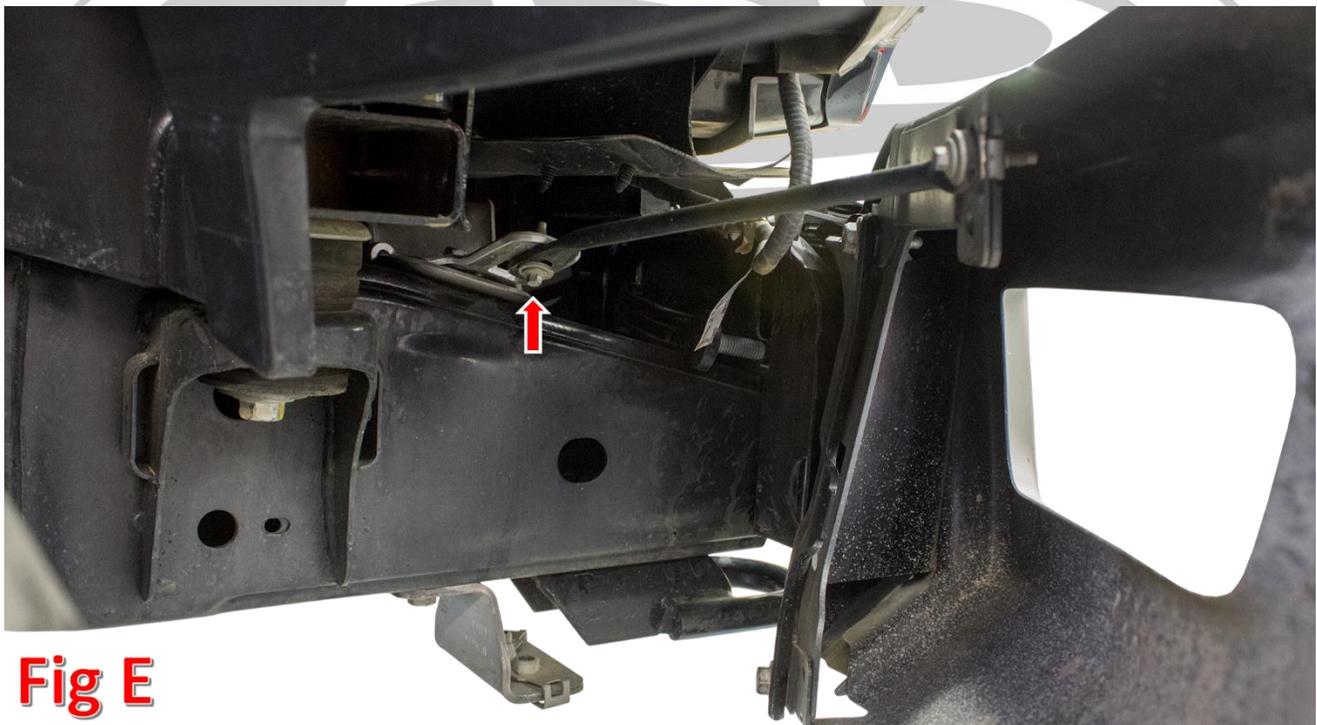


**Fig C**

4. Remove your Adaptive Cruise Control Module. (Fig D)
  - a. Using an 11mm Socket, remove the three nuts holding the Module on.
  - b. Using an E6 External Torx Socket, remove the three studs holding the Module on.
  - c. Remove the Module.



5. Remove the 8mm Bolt that holds on the bumper side support bar. Repeat this step on the other side. (Fig E)



6. Remove the 21mm Nuts that hold on the 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 Removal 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**



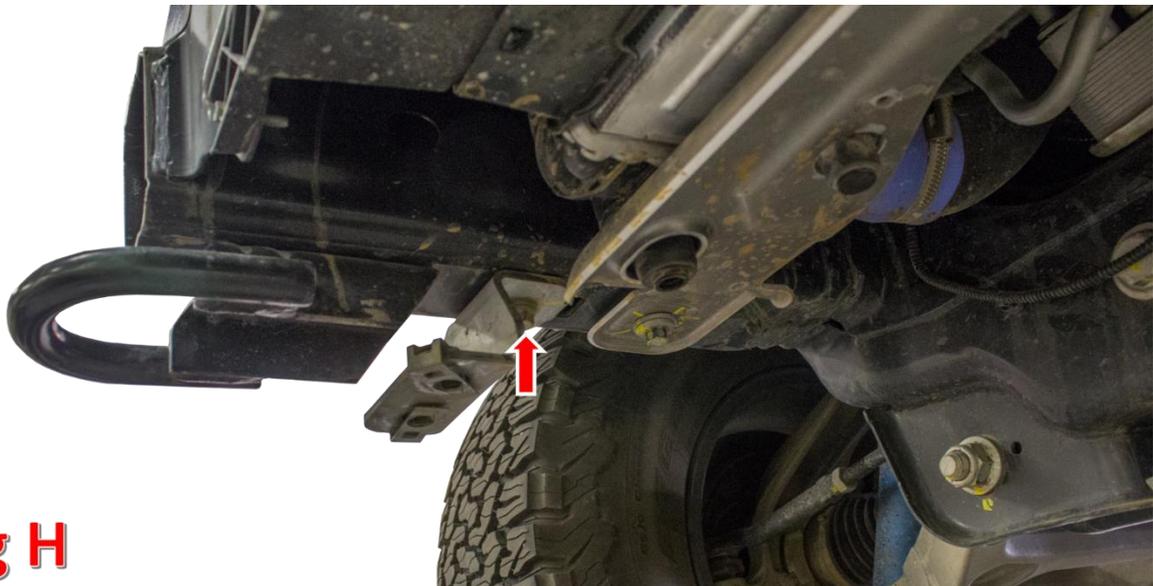
**Fig F**

7. Remove the bumper from the truck. As you are removing the bumper, be sure to pull the rubber shroud from the plastic clips that attach it to the bumper. (Fig G)



**Fig G**

8. Remove each of the Skid Plate Brackets by removing the 13mm bolt that holds each of them on. There is one bolt per side. (Fig H)



**Fig H**

9. Prepare to install your new ADD Race Series R Front Bumper.

## INSTALLATION

1. Install the Intercooler Upgrade Kit before attempting to install this bumper.
2. If you have any lights to install on your bumper, now would be a good time to do so. For light installation and wiring information, please follow the light manufacturer's instructions.
3. If you have a 40" Radius Light to install on the top of your bumper, follow this step.
  - a. Remove the two top plate bolts referenced in Fig I. Save the nuts and washers for reuse.



**Fig I**

- b. Mount the light tabs to your light (leave these bolts loose for now). Then, set the supplied 3/8" Carriage Bolts (x2) in place as shown in Fig J.



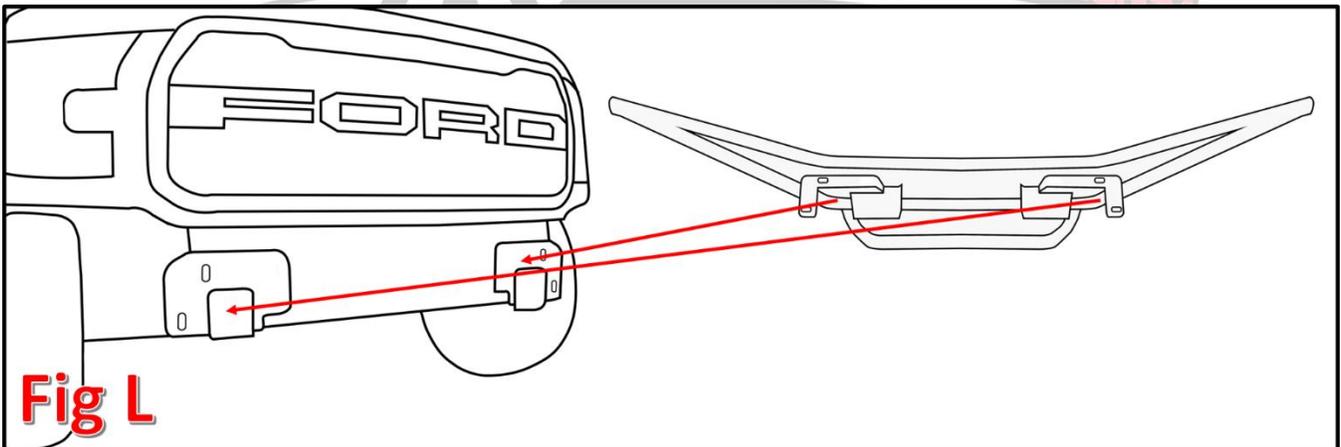
**Fig J**

- c. Set the light in place on top of your bumper and reinstall the nuts/washers you removed earlier in this step. Leave these loose for now.
- d. Adjust the light so that it is centered left to right. Then, tighten the 2 bracket mounting nuts to 20 foot pounds.
- e. Set the position of your light. Then, tighten the light mounting bolts to the light manufacturer's torque specification.

4. Install the supplied 3/8" U-Nuts (x2) into the holes in the cross member that lined up with the two rear skid plate bolt holes (You removed these bolts and the factory U-nuts in Removal Steps 1 & 2). (Fig K)



5. Line the 4 mounting holes on the bumper up with 4 of the mounting holes on your truck's frame horns. (Fig L) Hold the bumper to the truck by using the supplied 1/2" Bolts (x4), 1/2" Washers (x8), and 1/2" Nuts (x4). Leave these bolts finger tight for now. (Fig M)



6. Line the bottom mounting holes on the skid plate portion of the front bumper up with the U-nuts you installed in Installation Step 3. Loosely install the supplied 3/8" Hex Head Bolts (x2) and 3/8" Washers (x2). (Fig N)



7. Align the bumper so that it is straight in relation to the grill/headlight bezels. You may need one person to hold the bumper in place while another person tightens the bolts.
8. Torque the supplied 1/2" bolts to 70 foot pounds. Torque the OEM Hardware to OEM torque specifications. Torque the supplied 3/8" Hex Head Bolts to 20 foot pounds.
9. Stand back and enjoy your new ADD Race Series R Front Bumper.
10. Check and re-tighten if needed, all mounting bolts after 100 miles and periodically thereafter.



**For Additional Support or Technical Questions,  
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