

# ADDICTIVE DESERT DESIGNS

## 2017 – Current Ford Raptor HoneyBadger Rear 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. 9/16" Socket and Wrench
  - c. 7/32" Allen Wrench or Allen Key Socket
  - d. T40 Torx Socket
  - e. Grinder
  - f. Paint

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

5. Included in Kit:
  - 6 – Hex Head Bolts – 3/8"-16 x 1 1/2"
  - 2 – Button Head Bolts – 3/8"-16 x 1"
  - 14 – Flat Washers – 3/8"
  - 8 – Nylon Locking Nuts – 3/8"-16

### REMOVAL

1. Unplug the electrical connector on the back of your trailer light plug, then remove the plug by pushing in the two tabs and pulling it out the front of the bumper. (Fig A)



**Fig A**

2. Take off your license plate.
3. Remove your license plate lights from their housing.
4. Remove the parking sensors (x4) from their outer mounting rings. Simply spread the two tabs on the back of the mounting ring to allow the sensors to push out the back of the ring. Leave the mounting rings in the bumper for now. (Fig B)



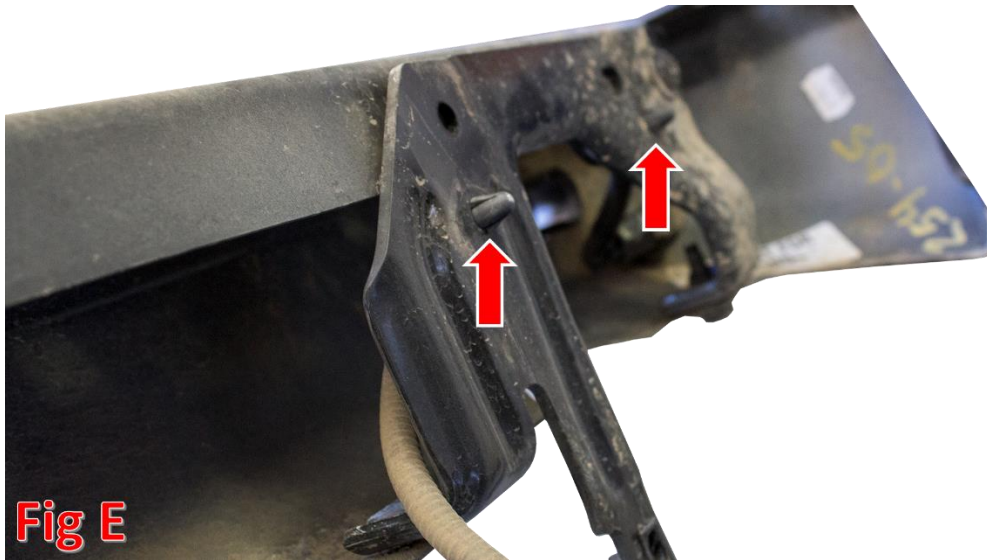
5. Carefully pull the plastic center piece of the bumper off. There are no tools required for this step, it pulls off by hand. (Fig C)



6. Using a T40 Torx Bit, remove the bolts (x5) holding on each metal side piece. (Fig D)

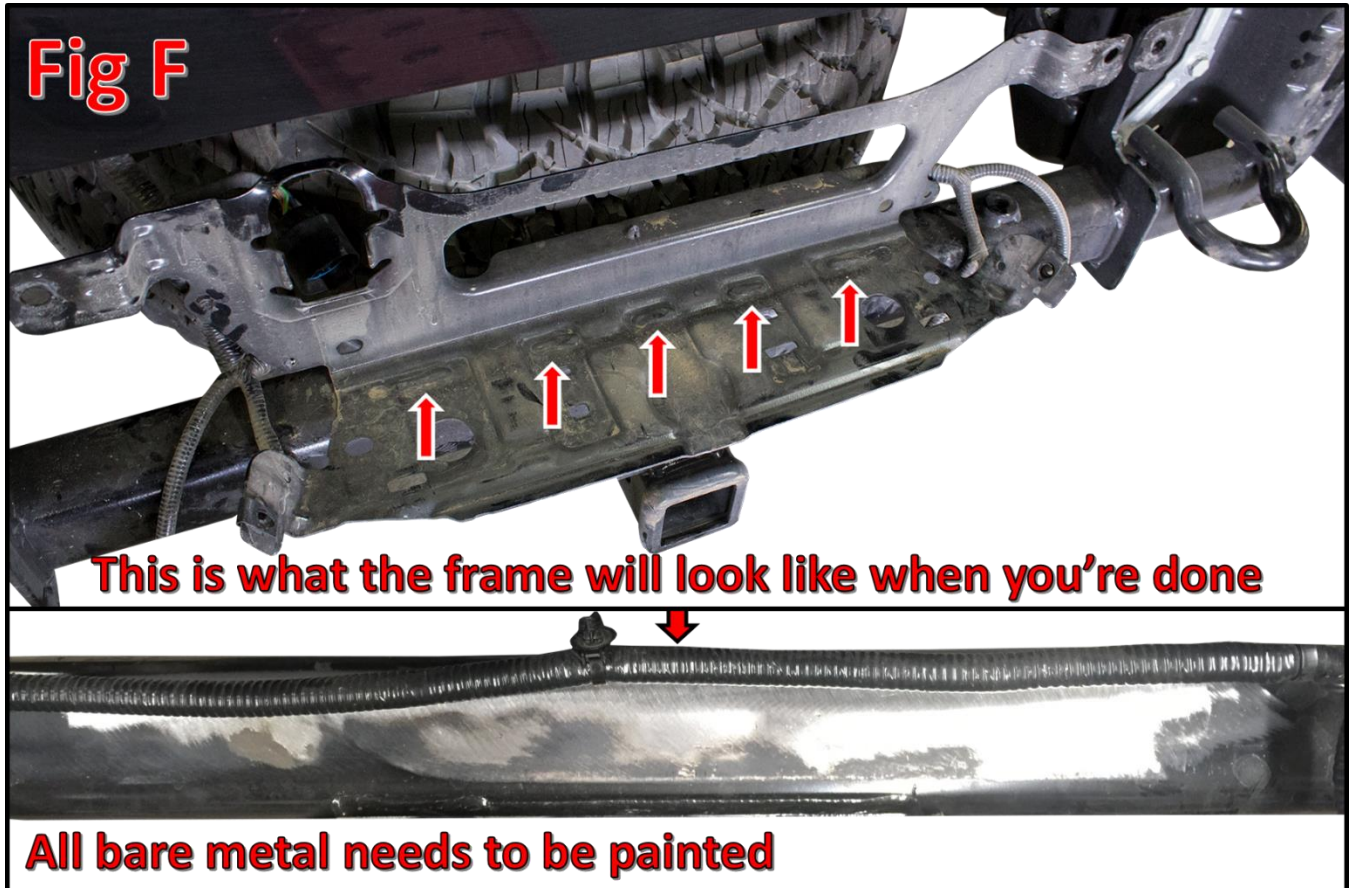


7. Remove the plastic clips (that hold the parking sensor harness in place) from the metal bumper ends, then remove the metal bumper ends from the truck. (Fig E)



**Fig E**

8. Grind the five welds to remove the license plate structure from the rear frame. Make sure to paint over any bare metal when you're done grinding. (Fig F)



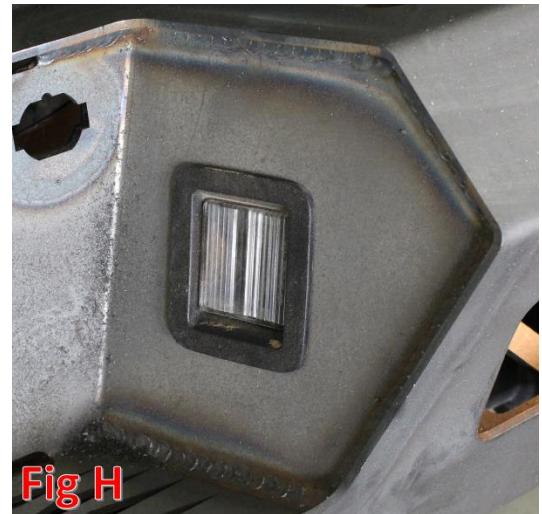
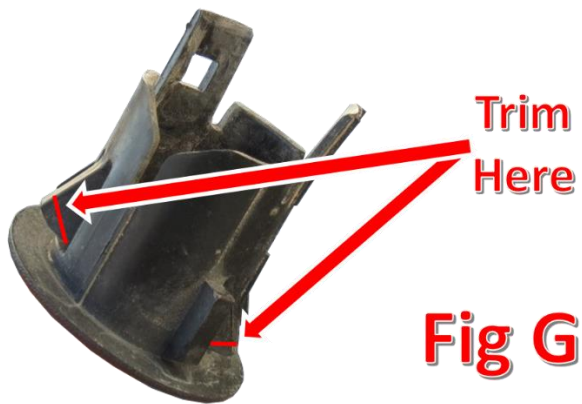
**This is what the frame will look like when you're done**

**All bare metal needs to be painted**

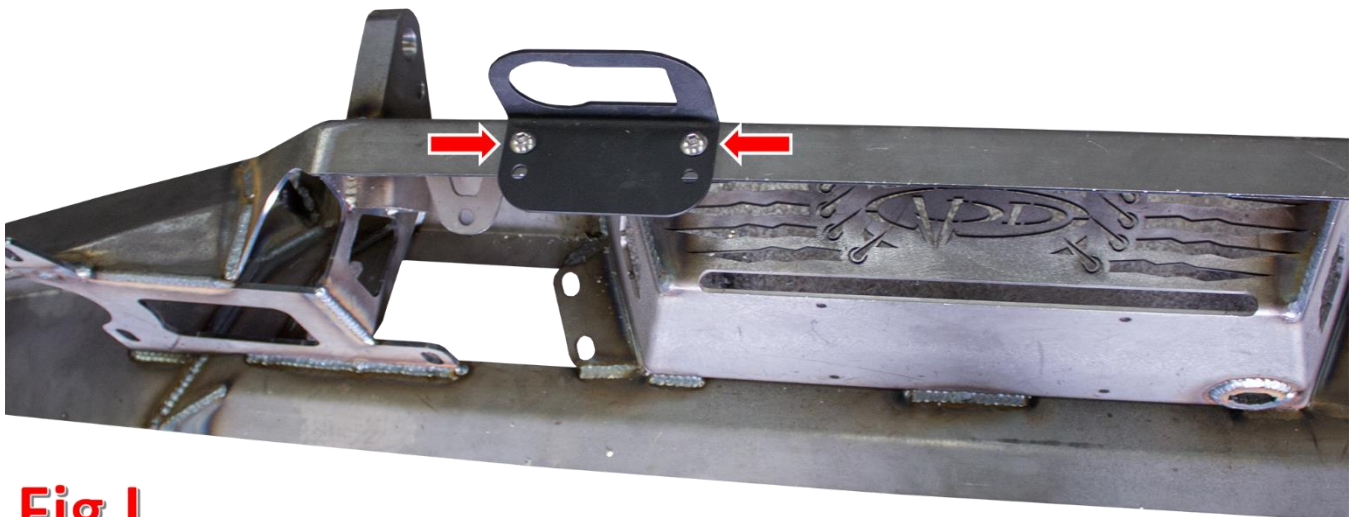
9. Remove the parking sensor mounting rings from the OEM bumper. Do this by pressing in the two tabs on the back of the ring and pushing them out the front of the bumper.
10. Remove the license plate light housings from the OEM bumper. Do this by pressing in the two tabs on the back of the housings and pushing them out the front of the bumper.
11. Prepare to install your new ADD HoneyBadger Rear Bumper.

## INSTALLATION

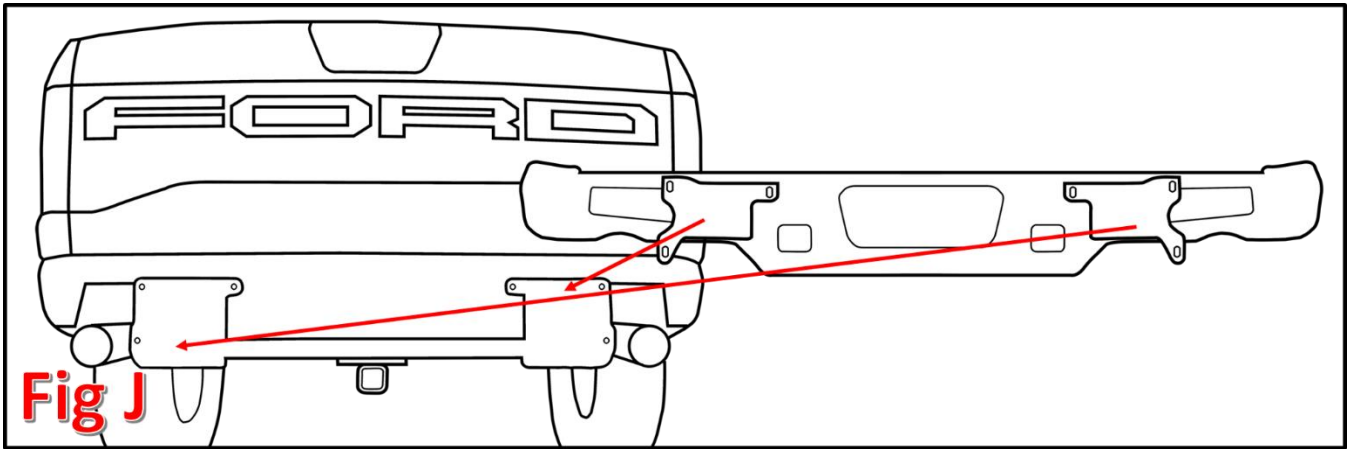
1. If you purchased lights for your bumper, now is a good time to install them. Follow the light manufacturer's installation instructions for mounting and wiring information.
2. Install the parking sensor mounting rings onto your new bumper by simply pressing them into their precut holes. If the rings do not click into place, you may have to trim the tabs on the side of the rings. Refer to Fig G for trimming information.
3. Install the license plate light housings on your new bumper by simply pressing them into their precut holes until they click in place. (Fig H)



4. Install the trailer plug relocation bracket. Use the supplied 3/8" Button Head Bolts (x2), 3/8" Washers (x2), and 3/8" Locking Nuts (x2) to secure the bracket to your bumper through the predrilled holes. (Fig I)



5. Line the mounting holes on the bumper up with the mounting holes on the rear frame of the truck. Use the supplied 3/8" Hex Head Bolts (x6), 3/8" Washers (x12), and 3/8" Locking Nuts (x6) to secure the bumper to the truck. Leave these bolts loose for now. (Fig J)



6. Line up the bumper so that it sits straight in relation to the tailgate. Then, torque the 3/8" Mounting Bolts to 45 foot pounds.
7. Install the parking sensors by pressing them into the back of their mounting rings.
8. Install the license plate lights by twisting them into their housings.
9. Install the trailer plug into the relocation bracket by pressing it into the precut hole then plugging in the electrical connector.
10. Install your license plate.
11. Stand back and enjoy your new ADD HoneyBadger Rear Bumper.
12. Check and re-tighten if needed, all mounting bolts after 100 miles and periodically thereafter.