

# *Addictive Desert Designs*

## 2010 – 2014 Ford Raptor Race Series Front Bumper Installation instructions

### PREPARATION STEPS

1. Disconnect the negative terminal on the battery. With the vehicle on level ground and the emergency brake set.
2. You will need the following tools:
  - a.  $\frac{1}{2}$ " drill bit
  - b.  $\frac{3}{4}$ " wrench
  - c.  $\frac{3}{4}$ " Socket
  - d. Ratchet
  - e. 15MM socket and ratchet
  - f. Sharpie type marking pen
  - g. Center punch
3. Hardware Included:
  - a. 8 –  $\frac{1}{2}$ " x 1  $\frac{1}{2}$ " Bolts
  - b. 8 –  $\frac{1}{2}$ " Nuts
  - c. 12 –  $\frac{1}{2}$ " Flat washers

\*\*2 – 15mm Skid plate Bolts will be re-used in the installation

### INSTALLATION INSTRUCTIONS

1. Remove factory Front Bumper and front skid plate (Keep the 2 – 15mm Skid plate Bolts for re-use) .
2. Fit the Bumper onto the truck and use the Sharpie to mark the frame horn to drill the  $\frac{1}{2}$ " holes. The red arrows are the holes to be drilled, the blue arrows show the factory slots. Slots and holes will be opposite for the Drivers side



\*\*\*If you purchased lights that fit behind the bumper, now is a good time to install those into the bumper\*\*\*

3. Fit the bumper back onto the truck and attach using the supplied  $\frac{1}{2}$ " x  $1\frac{1}{2}$ " Bolts (8 ea.),  $\frac{1}{2}$ " Nuts (8 ea.) and  $\frac{1}{2}$ " Flat Washers (12 ea.). Leave finger tight until all of the bolts are installed, then tighten to 70 ft./lbs.

\*\*\*The Upper outside holes will not be used and the holes will be kept open.\*\*\*

4. Attach the lower section using the 2 – 15mm Skid Plate Bolts taken from the factory skid plate.



5. Step back and enjoy your new A.D.D. bumper.



6. Check, and re-tighten if needed, all mounting bolts after 100 miles and periodically thereafter.

Looking for dependable off-road bumpers? Rely on Addictive Desert Designs for quality and long-lasting products.