



Thank you for your purchase of this custom-designed bracket for your 2017-2020 Ford Raptor! This kit utilizes both the factory and included hardware to mount the bracket to the vehicle. **Please contact us if you have any questions.**

COMPUTER DESIGNED
OEM FITMENT



Tools Needed: 8mm, 10mm, 13mm sockets, ratchet, socket extension, 4mm Allen key



1. Using a 13mm socket, loosen screw **A**. Do not fully remove the screw. Next, remove screw **B**.



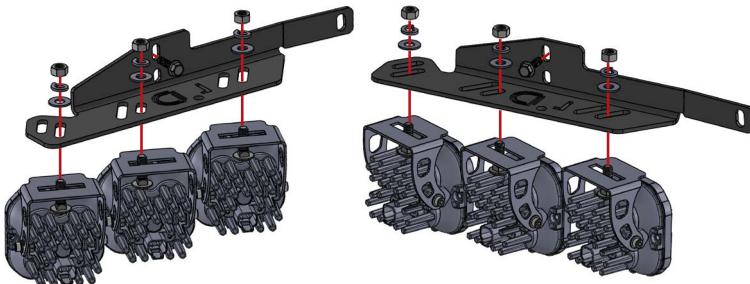
2. Using an 8mm socket, loosen screw **C** from the strut. Do not fully remove the screw. After that, remove screw **D** from the strut.



3. Slide the bracket in-between the bumper and the support **E**. Using the stock mounting points, replace the original 13mm screw, only hand-tightening it.



4. Slide the other side of the bracket between the strut and the bumper **F**. Using the stock mounting points, install the included M6 screw, only hand-tightening it.



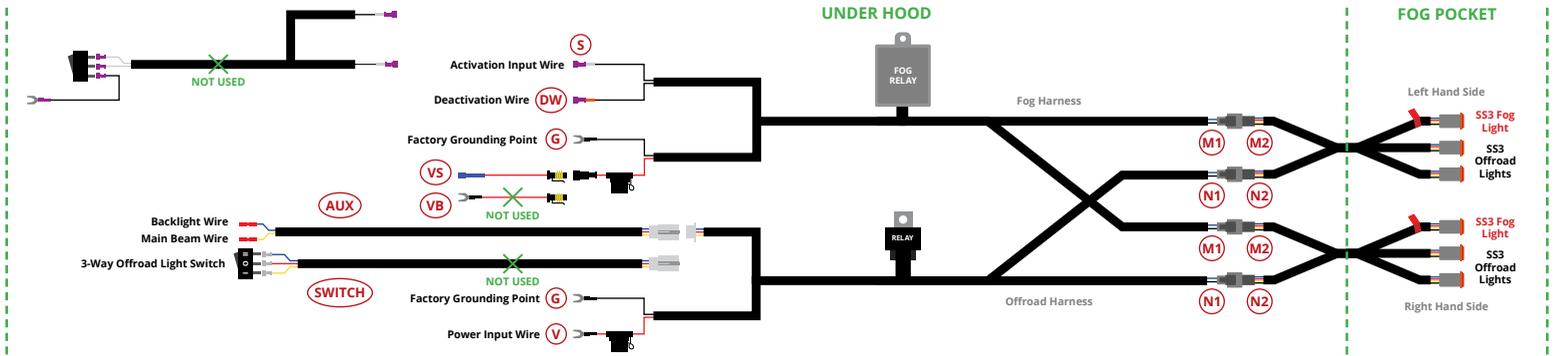
5. Tighten the screws that were hand-tightened and retighten the screws that were loosened to secure the bracket.

6. Using the included hardware, attach your pods to the included bracket and then attach it to the base bracket on the vehicle. See diagram to the left.

Wiring Instructions

This kit provides three lighting functions: road-legal fog lights, an ambient backlight illumination, and bright off-road lighting. Using the included wiring harnesses, you can switch between these functions with ease. The off-road lights and backlight feature are controlled manually with the included 3-way toggle switch, or your factory auxiliary switches. When routing harnesses, avoid areas that may be subject to heat buildup or moving parts. We recommend following the path of original manufacturer wiring harnesses.

See back for further instructions.



Since your truck came with factory upfitter/auxiliary switches, you may wish to use those switches, rather than installing new ones.

A. Controlling Fog Lights with Upfitter Switch

1. Route both wiring harnesses to general locations as needed. Place the Fog Relay and Off-Road Relay modules near the fuse box, under your hood. Run an output wire from each harness to the fog pocket on each side of the vehicle, so you have a Fog Output and Off-Road Output on each side.
2. Unplug the Battery Input Wire (VB) from the Fog Relay, and replace it with the Power Input Wire (VS)
3. Using a standard crimp tool, connect the Power Input Wire (VS) to an OEM Auxiliary Switch wire on your vehicle. Ensure the wire selected can provide adequate current for the operation of your model of SS3 pods - reference vehicle manual.
4. The Activation Input Wire (S) should be connected to your parking light or headlamp circuit. Your fog lights will activate any time the activation circuit is powered, and your upfitter switch is in the On position.
5. The Deactivation Wire (DW) should be connected to your high beam circuit. This connection will interrupt/disable the signal, to switch your fog light off when high beam is activated.

FUNCTION	PIN	WIRE COLOR
Parking Signal	PIN 3	Blue/Grey
Low Beam Signal	PIN 5	Blue/Green
High Beam Signal	PIN 6	Violet/Orange

B. Controlling Off-Road and Ambient Backlights with Upfitter Switches

1. Disconnect the 3-way switch adapter (SWITCH) and replace it with the OEM auxiliary switch adapter. (AUX)
 2. Connect the yellow wire to an Upfitter Switch wire to control the main off-road lighting. Connect the blue wire to an Upfitter Switch wire to control the ambient backlight.
- NOTE:** Power will still be drawn from the battery for the Off-Road harness, so any upfitter switch wire can be used.

7. Connect output wires (M1) to (M2) and (N1) to (N2) on each side of the vehicle.
8. Connect the splitter to each pod. Make sure to connect the Fog Light output, marked with a flag, to the SS3 Fog Light pod.
9. Secure all wiring, and test for function.

Functional Notes

1. The fog light activation wire should be connected to an appropriate signal to enable the activation of fog lights. Check local laws and regulations. Do not connect directly to constant 12V power or to an ignition power source - this will allow the fog lights to be switched on manually at any time, or switched on any time the vehicle is running.
2. When the off-road lighting is activated, all three lights (including fog lights) will illuminate. To remove the fog light from the off-road group, you can modify the splitter harness, disconnecting the integrated diode that can be found inside the harness.
3. The deactivation wire of the fog light harness can be used to disable the fog lights when 12V is applied.

Fog Light Aiming Instructions

1. Park your vehicle 25 feet away from a wall or garage door on a level surface.
2. Loosen the 5/32" allen bolts on each side of your SS3 pods, just enough to allow you to adjust the pods.
3. On your vehicle, measure the distance between the ground and the center of your SS3 pods. This is your mounting height.
4. Mark the mounting height on the wall or garage door using tape.
5. Add another piece of tape four inches below the mounting height. This is your fog light cutoff line.
6. Aim your SS3 pods on each side, so that the top of the beam pattern is on the cutoff line mark.
7. Tighten the 5/32" allen bolts back down to complete the installation. Do not overtighten or use power tools to torque them down.

This installation guide is for the following SKUs:

DD6003 Ford Raptor 2017 Fog Light Bracket Kit

DD6363 Ford Raptor 2017 SS3 Fog Light Kit White Sport
DD6364 Ford Raptor 2017 SS3 Fog Light Kit White Pro

DD6365 Ford Raptor 2017 SS3 Fog Light Kit Yellow Sport
DD6366 Ford Raptor 2017 SS3 Fog Light Kit Yellow Pro