



# **Installation Instructions**

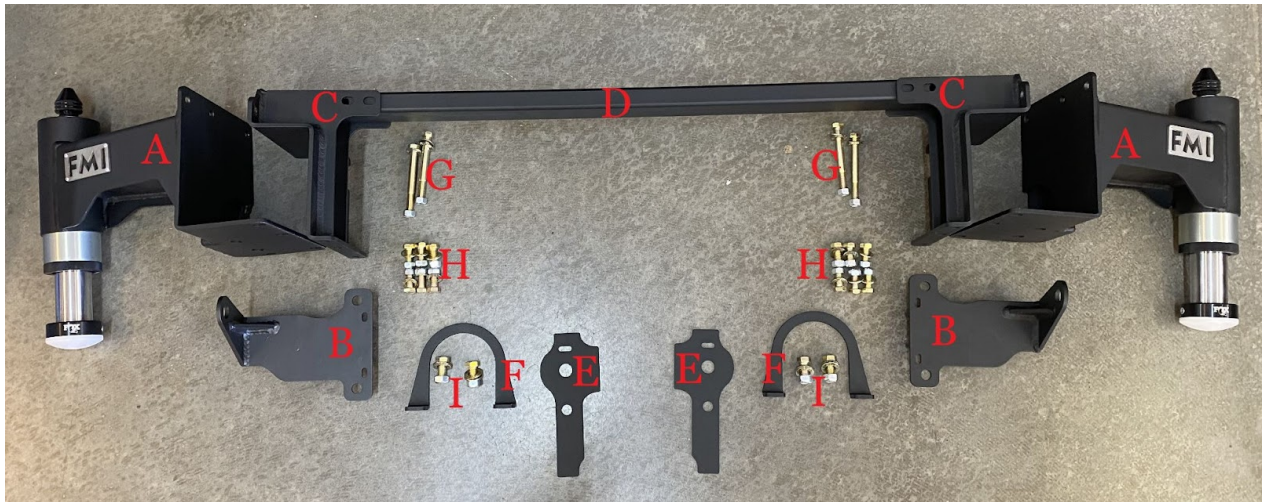
## **3rd Gen Raptor Bump Stop Kit**

### **2021-Up**

4725 E. Ivy Street, Suite 102, Mesa AZ 85205, United States  
info@foutzmotorsports.com  
www.foutzmotorsports.com

## INCLUDED IN KIT

- A. (2) Bump Stop Mounts
- B. (2) Bump Stop Strike Plate
- C. (2) Bump Stop Mount Inner Support
- D. (1) Inner Support Crossbar
- E. (2) Lower Frame Rail Spacer
- F. (2) Axle Strap
- G. (4) Support Crossbar bolts w/ nuts and washers
- H. (12) Bump Stop Mount to Inner Support bolts w/ nuts and washers
- I. (4) Axle Strap to Bump Stop Strike pad bolts w/ nuts and washers
- J. (1) Wiring Relocation Bracket



## **IN CASE OF A PROBLEM**

If you come across a problem during the installation process of this kit, don't hesitate to contact us:

- By phone at +1 (480) 718 9800
- By email at [info@foutzmotorsports.com](mailto:info@foutzmotorsports.com)

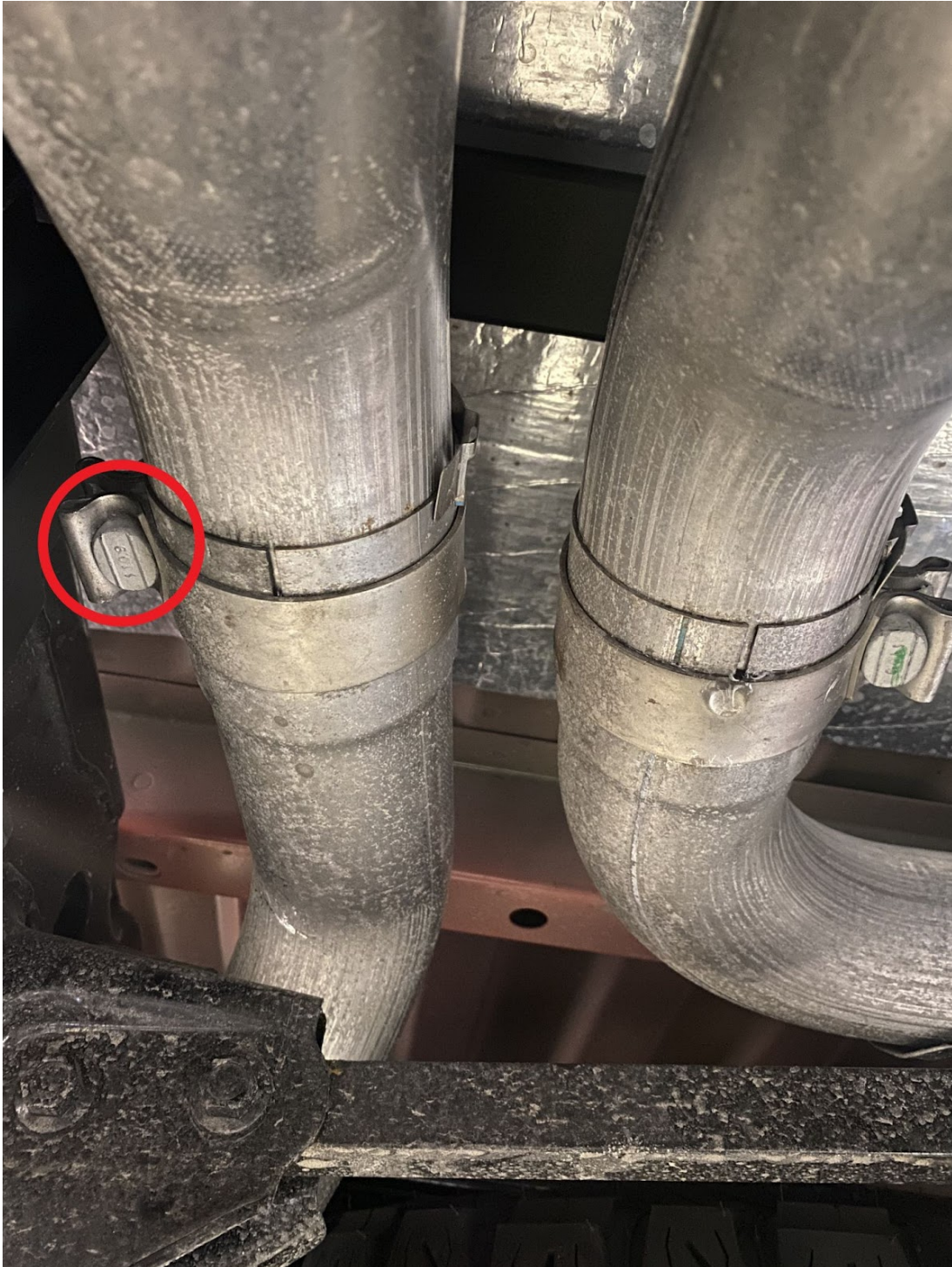
## **TOOLS REQUIRED**

- **Wrenches**
  - 9/16"
- **Sockets**
  - 10mm
  - 13mm
  - 9/16"
- **Ratchet**
- **Extensions**
- **Drift Punch**
- **Various Cutting/Grinding tools**

**This is an ADVANCED installation that requires cutting and grinding of various sections of the frame and rear axle of the vehicle. It is HIGHLY recommended that this kit is professionally installed.**

## DISASSEMBLY

1. Remove (2) factory bump stop bolts and set aside. Remove factory bump stop.
2. Loosen clamp nut on passenger tailpipe (above rear axle), remove bolts (2) from frame tailpipe mount, and nuts (2) from rear bumper mount exhaust mount. Remove passenger tailpipe.





**3.** Remove brake line hold downs and wiring from axle mounts, outboard of upper link mounts. Cut off and grind smooth. Paint any bare metal.



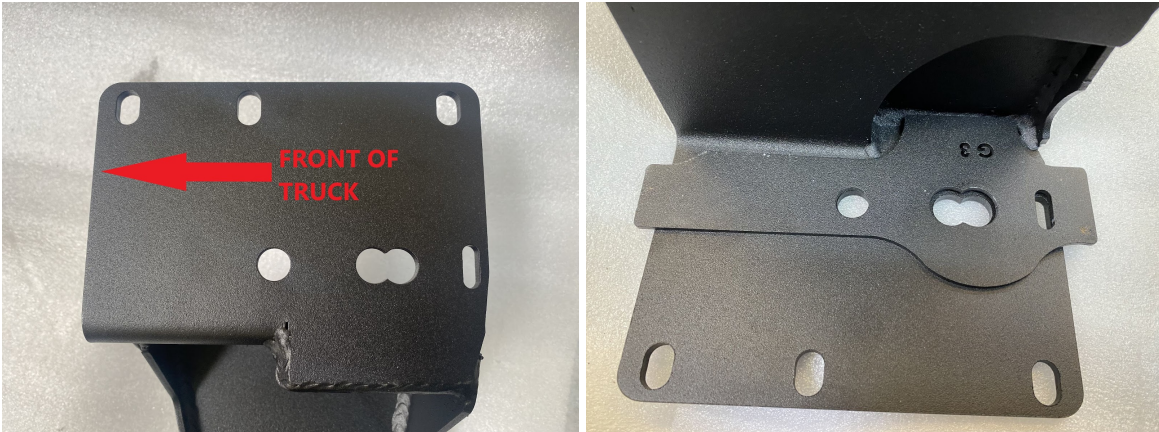
- 4.** Remove wiring from frame mount on the driver side frame rail, behind the fuel tank. Cut off and grind smooth. Paint any bare metal.



- 5.** Before continuing with installation, inspect frame rails in the areas where the bump stop brackets will be installed for excessive weld build up. Grind smooth any protruding weld areas. Paint any bare metal areas.

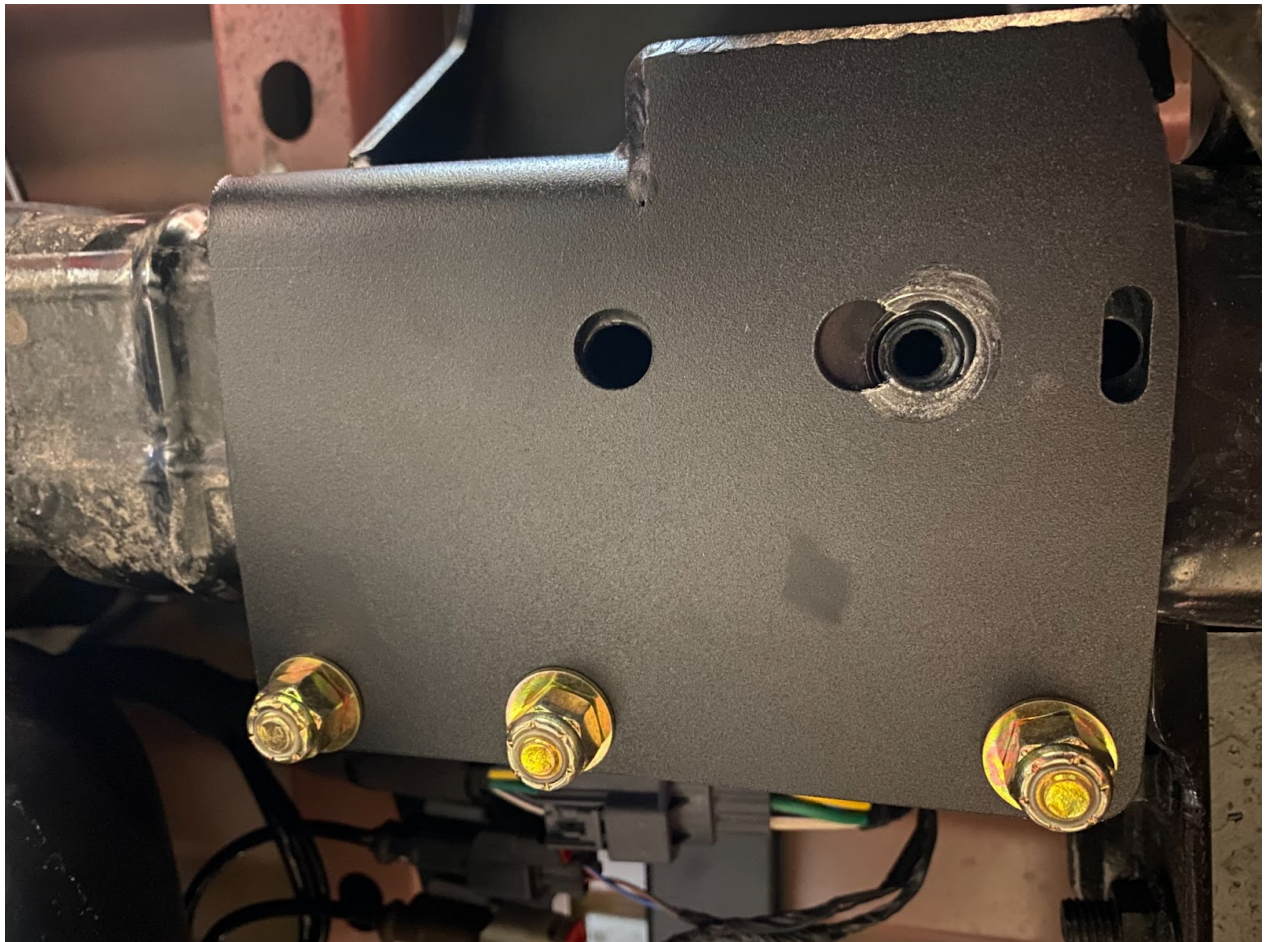
# INSTALLATION

1. Identify left and right Bump Stop Mounts. The single round hole will be toward the front of the vehicle



2. With the Lower Frame Spacer aligned with the Bump Stop Mount, as shown above, hold both up to frame, align single hole with unthreaded hole in frame, and the rear "figure 8" hole with the threaded factory bumpstop hole. Loosely install factory bump stop bolt to hold Bump Stop Bracket on frame. Repeat on other side.

**NOTE:** Due to slight variances in frame construction, the two halves of the bump stop bracket will occasionally not go together with Lower Spacer Plate in place, in which case it will need to be removed. Whenever possible, it is best to include the Lower Spacer Plate.



**3.** Place Bump Stop Mount Inner Support in frame. Align holes with Bump Stop Mount, and install and tighten (6) bolts. Tighten factory bump stop bolt. Repeat on other sides. On the passenger side, the exhaust section removed earlier provides room to get the Inner Support into position.

**NOTE:** These brackets are designed to fit VERY tight around the frame, as such it may be necessary to use a drift punch to help align holes. If you skipped Disassembly step 5, this part of the install will be significantly more difficult.

**4.** Once both sides have been installed, slide the inner support crossmember into place. From the driver side, slide the bar up into the tabs of the passenger side Bump Stop Mount Inner Support, then swing the Inner Support Crossbar up into the driver side tabs. Align holes and insert bolts from rear of truck. On the driver side, before installing nuts, place the Wiring Relocation Bracket on the bolts. Install and tighten nuts, and clip wiring into the Wiring Relocation Bracket.





5. Remove the nut from the upper suspension link. **DO NOT REMOVE BOLT.** Remove Plastic wiring support from upper control arm mount. Place Bump Stop Strike Pad onto bolt, and reinstall factory nut. Trim Plastic wiring support to clear bump pad, and reinstall clips.



Grind friction weld holding mounting tab off brake flex line to remove mounting tab, and route between Axle Strap and Bump Pad.



Route wiring under bump pad, between Axle Strap and Bump Pad. Secure Brake Line and wiring with zip ties. Install Axle Strap to Bump Stop Strike Plate with supplied hardware and tighten. Torque upper link bolt.



# **Congratulations!**

Your Gen 3 Raptor Bump Stop Kit installation is complete!

Don't forget to check out the rest of the FMI family of products  
available for your Raptor!