



## FS Performance Engineering

Chevy Silverado / GMC Sierra 1500 (Generation 4) Catalytic Converter Guard 3.0L Diesel

Installation Instructions

*Professional Installation Is Recommended*

### Tools Needed:

- ½” Wrench
- ¼” Socket for Security Bit
- ½” Socket
- 17mm Socket
- Ratchet Wrench
- Drill
- 25/64” Drill Bit (for the Rivnuts)
- Rivnut Insert Tool (a heavy duty one is necessary)
- Helper
- White Marker (black sharpie works, but is hard to see)

### What’s Supplied:

#### **Parts:**

- (1) Silverado/GMC 1500 Cat Guard for 3.0L Diesel
- (1) or (2) Spacing Plates depending on plate thickness

#### **Hardware:**

- |                                  |                                 |
|----------------------------------|---------------------------------|
| (1) Security Bit (5/32”)         | (2) 5/16”x1.25” Washers         |
| (1) ¼”-20 x 1” Security Bolt     | (1) 5/16”-18 x 1” Hex Head Bolt |
| (2) ¼”-20 x 2” Security Bolts    | (1) 5/16”-18 Nut                |
| (3) ¼”x1” Washers                | (1) 5/16”-18 Nyloc Nut          |
| (4) ¼”-20 Rivnuts (one is extra) |                                 |

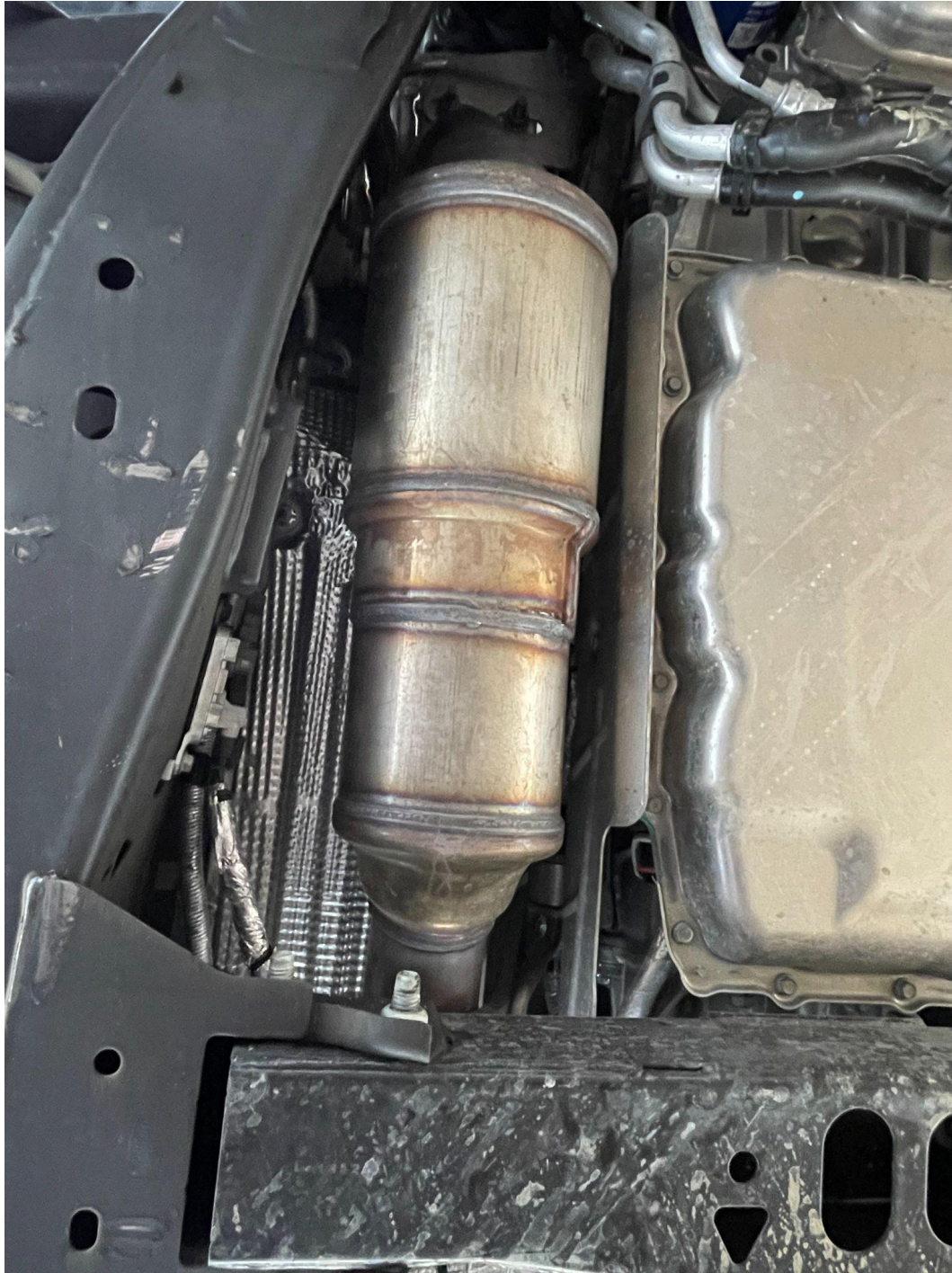
- (1) Blue Threadlocker



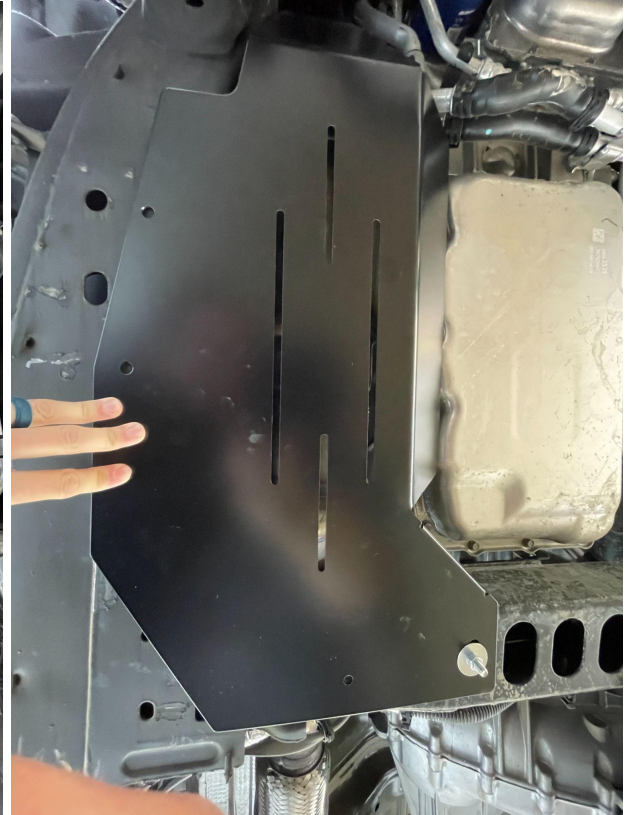
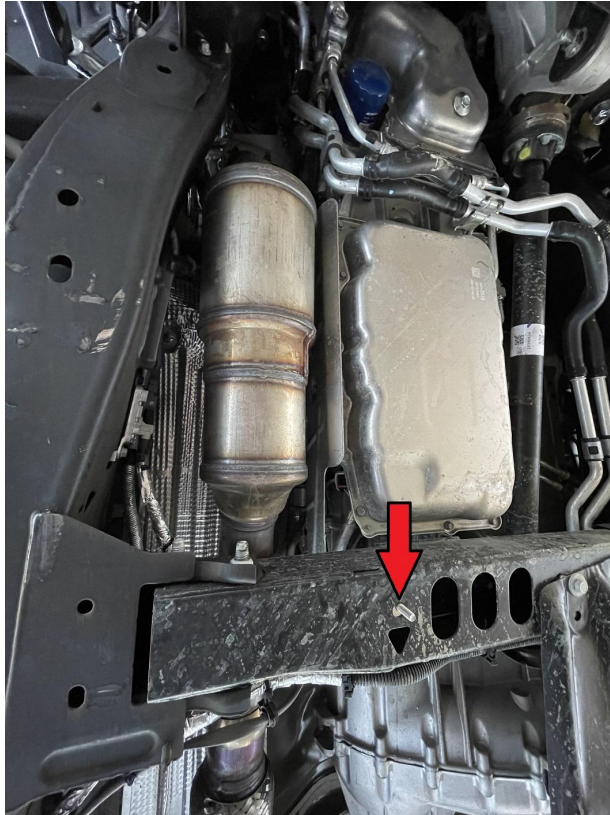
← Threaded Rivet Nut (Rivnut) Help

**Steps:**

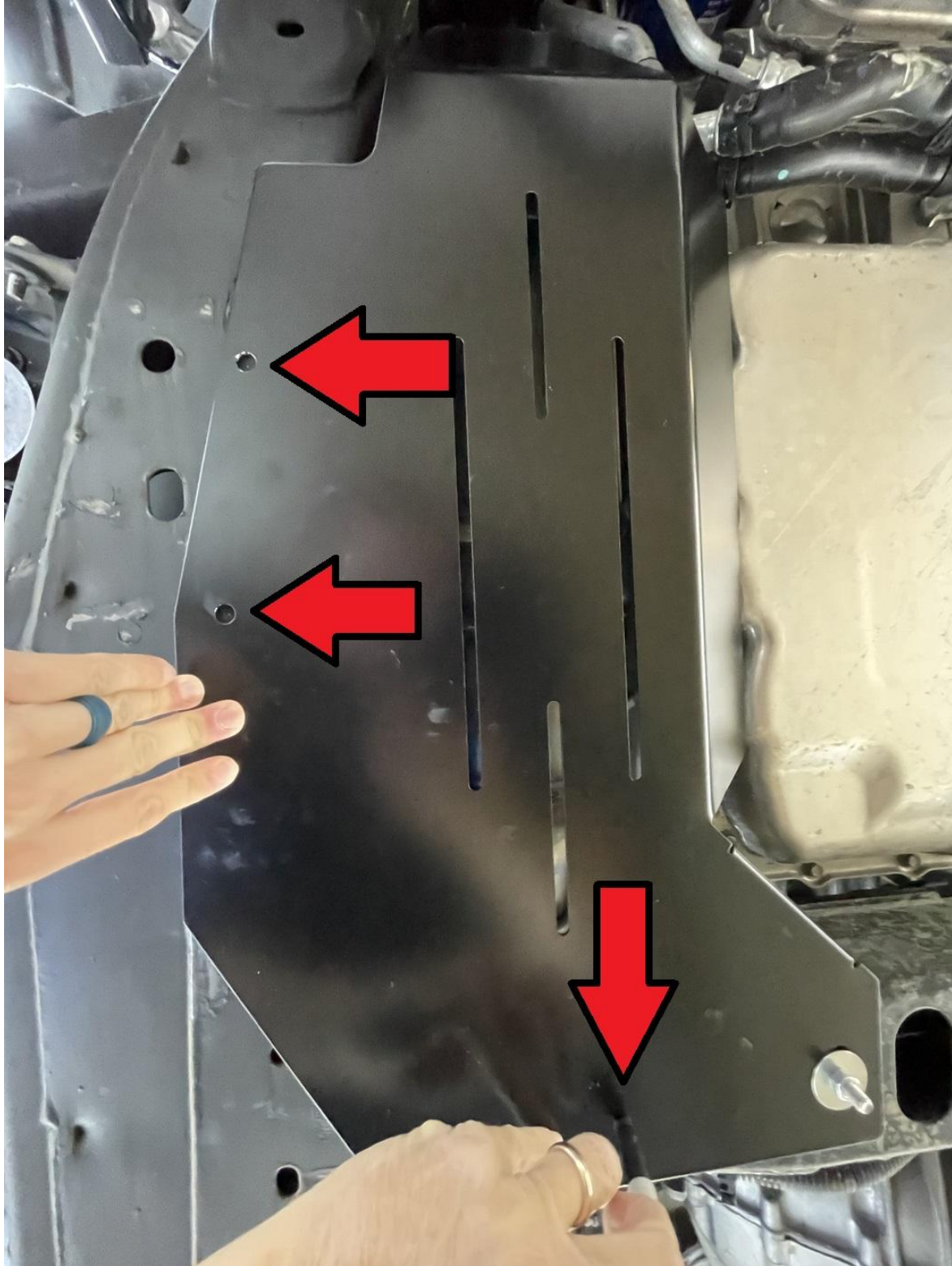
- 1.) Begin by raising your truck. We used a 4 post drive-on lift. A lift is recommended to gain full access to the underside of your truck.
- 2.) Identify your catalytic converter on the right side of the vehicle. Your shield will mount underneath.



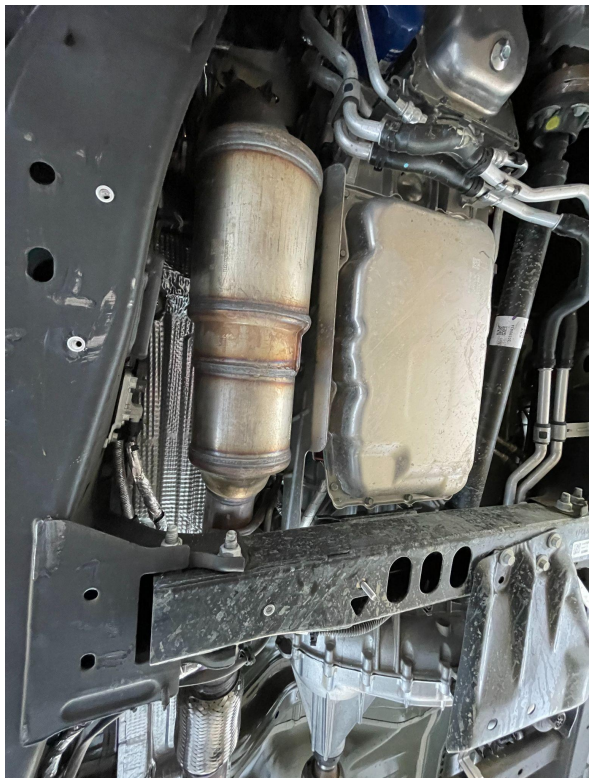
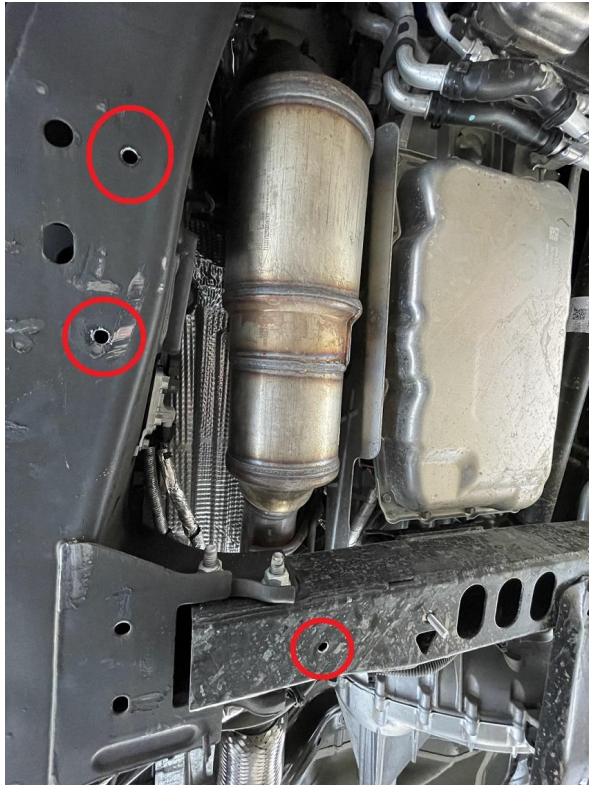
3.) Use your 5/16" hardware to mount the plate - point the bolt downward in the location shown with a washer on the inside of the crossmember, and underneath the catalytic converter guard. You're required to drop the bolt down through the transmission crossmember. Use a washer and nut (NOT A NYLOC NUT YET) under the catalytic converter guard to hold it up. Hand tighten for now.



4.) Adjust your catalytic converter guard so the fold at the front sits between the frame and metal hoses. Hold it steady and mark the three holes that hold up the guard on the frame.



5.) Remove the guard and drill out the three marked holes with a 25/64" drill bit. Then install 1/4" rivnuts into those holes. Use online resources to understand how a rivnut works if you need assistance. We also provide a QR code on the first page that you can follow to learn more.



←----- Rivnuts installed.



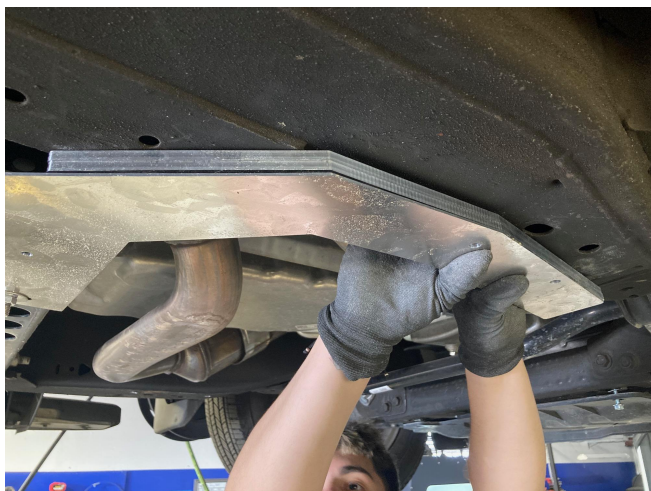
## 6.) Installing your catalytic converter guard.

We recently updated this product with spacing plates, additional washers, and blue threadlocker.

- The spacing plates are sandwiched between the catalytic converter guard and frame during final installation. This levels out the catalytic converter guard and fills the gap between the guard and frame (See pics below). If you have 2 spacing plates, use both. If you have 1 spacing plate, use it. We are filling a 1/2" gap here. NOTE: The third hole at the rear is only there to be aligned with the rivet protruding upward.
- The 1/4"x1" washers are to be used under the heads of the security bolts if you please.
- The blue threadlocker must be used on the 1/4" security bolts during final installation.

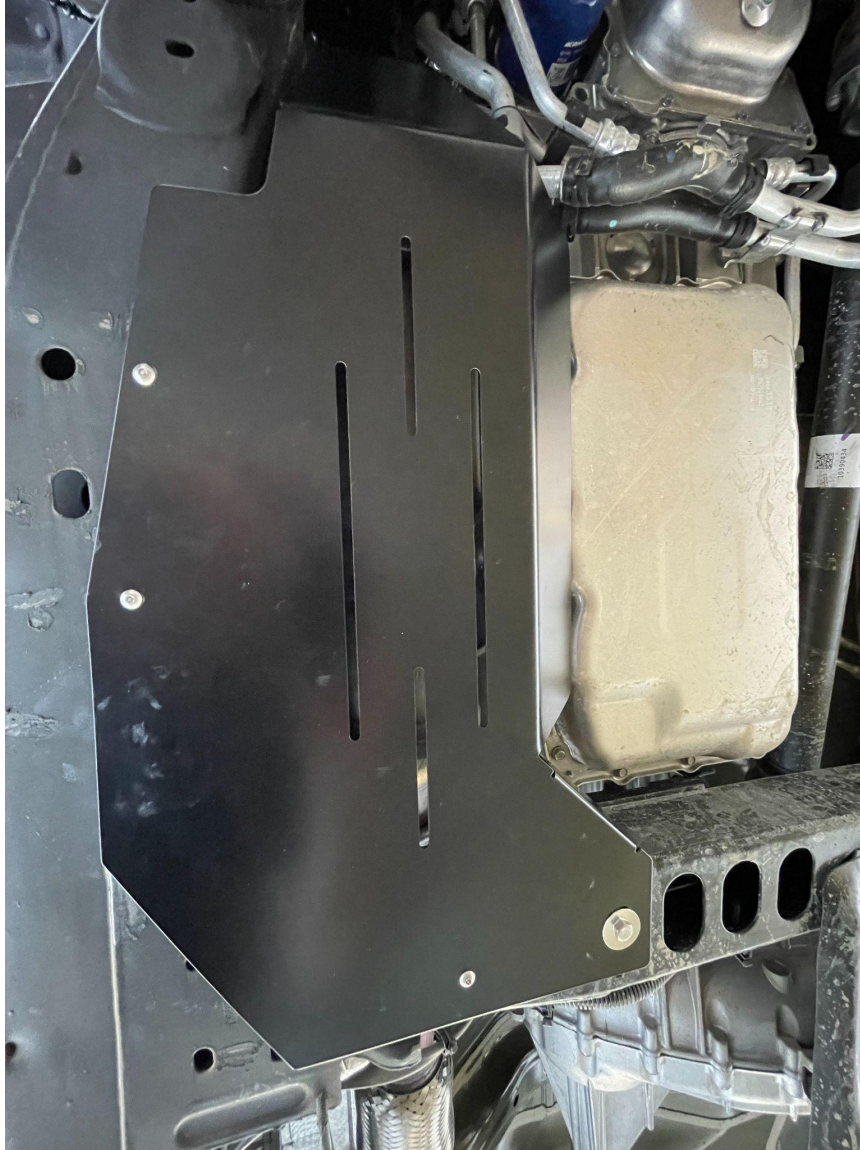
Install your catalytic converter guard into the 1/4" rivnuts. Use the 1/4"-20 security bolts, 1" washers, and supplied security bit + blue threadlocker. Do not over torque and strip the bolts. Then, install the 5/16" hardware into the slot with the bolt pointed upward. Use washers on top and bottom and a nyloc nut this time. Securely tighten. Assure everything is tightened.

### HOW THE SPACING PLATES WORK:





HOW THE CAT GUARD IS INSTALLED... feel free to use the ¼"x1" washers under the security bolts.



7.) Enjoy your new catalytic converter guard/shield! Tag us online using #FSPerformanceEngineering. If you have any questions feel free to contact us.

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THANK YOU :)