

FS Performance Engineering

Chevy / GMC Gen 4 1500 V8 Gas V2 Catalytic Converter Installation Instructions
Professional Installation Recommended as Always - A car LIFT is HIGHLY Recommended

Tools Needed:

- Ratchet Wrench(es)
- 1/4" Socket
- 13mm Socket
- 7/16" Socket OR wrench
- 17/32" Drill Bit (for the 5/16" Rivnuts) - see step 5 for an alternative
- Drill (wear safety protection when drilling)
- Rivnut (threaded rivet nut) Installation Tool (a heavy duty one is necessary) with a 5/16"-18 mandrel
- Helper
- Marker / Pencil / Pointy Tool

What's Supplied:

Parts:

- (1) Cat Guard
- (1) Oil Drain Cover

Hardware:

1ST BAG:

- (2) M8-1.25 x 30mm Security Bolts
- (2) 5/16"x1.25" Washers
- (1) Security Bit (3/16")

2ND BAG:

- (5) 5/16"-18 RIVET NUTS (2 are extra)
- (3) 5/16"-18 x 2" SECURITY Bolts
- (3) 5/16"x1.25" Washers
- (3) 20mm Spacers

3RD ITEM/BAG:

- (1) Blue Threadlocker

4TH BAG:

- (6) 1/4"-20 x 1" Hex Head Bolts
- (6) 1/4" Lock Washers



← Threaded Rivet Nut (Rivnut) Help

Steps:

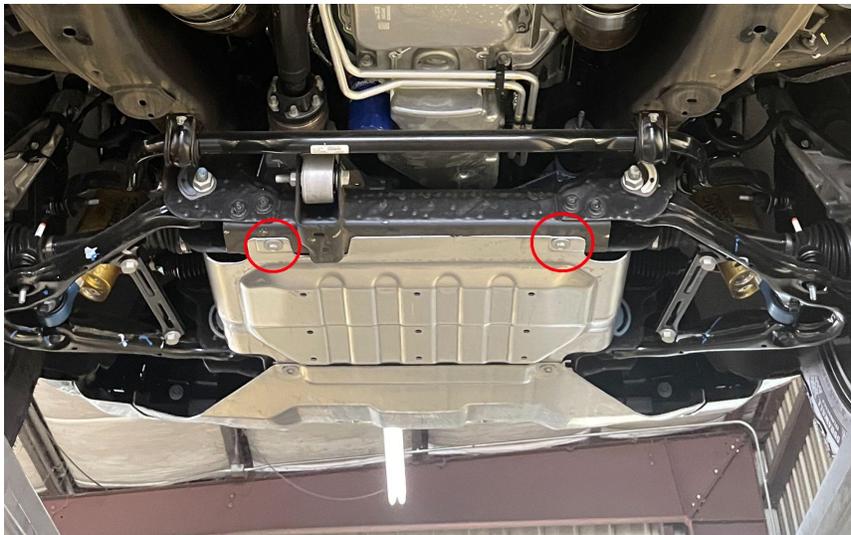
1.) Begin by raising your Chevy/GMC. Place it securely on jack stands. Or alternatively use a vehicle lift (highly recommended). The vehicle must be high enough for you to use your rivet nut installation tool (rivnut tool).

2.) Identify and remove the rear 2 bolts holding the front skid plate. These need to be removed with a 13mm wrench or socket. Your front skid plate may be plastic or metal.

Plastic Skid Plate:

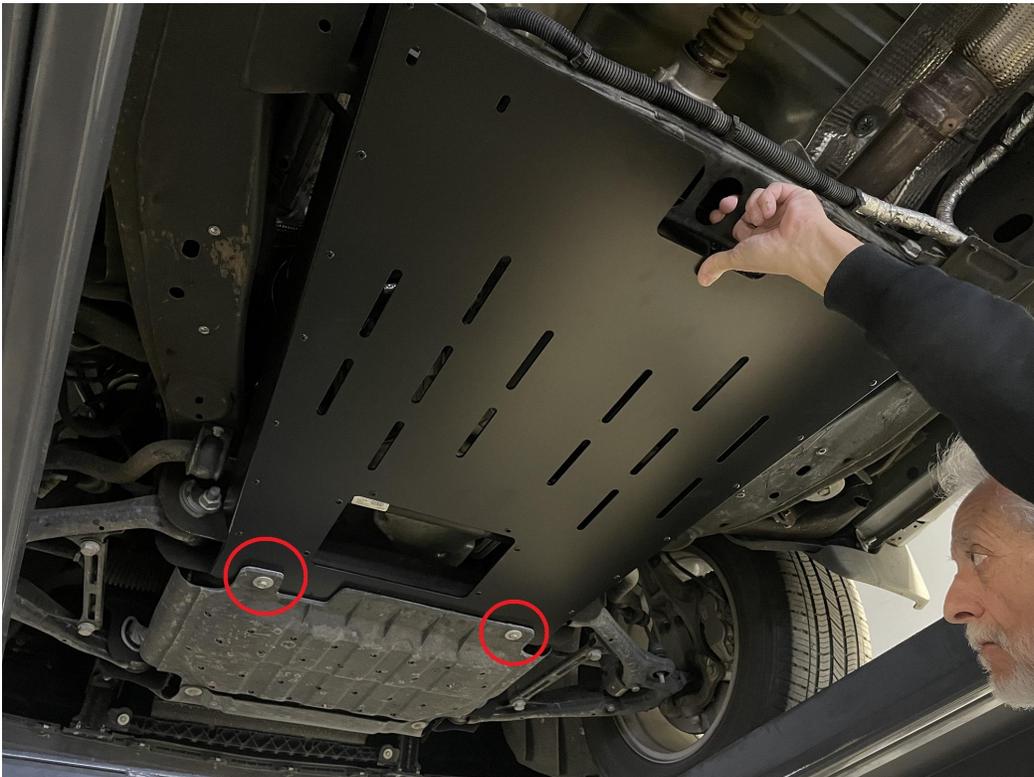


Metal Skid Plate:

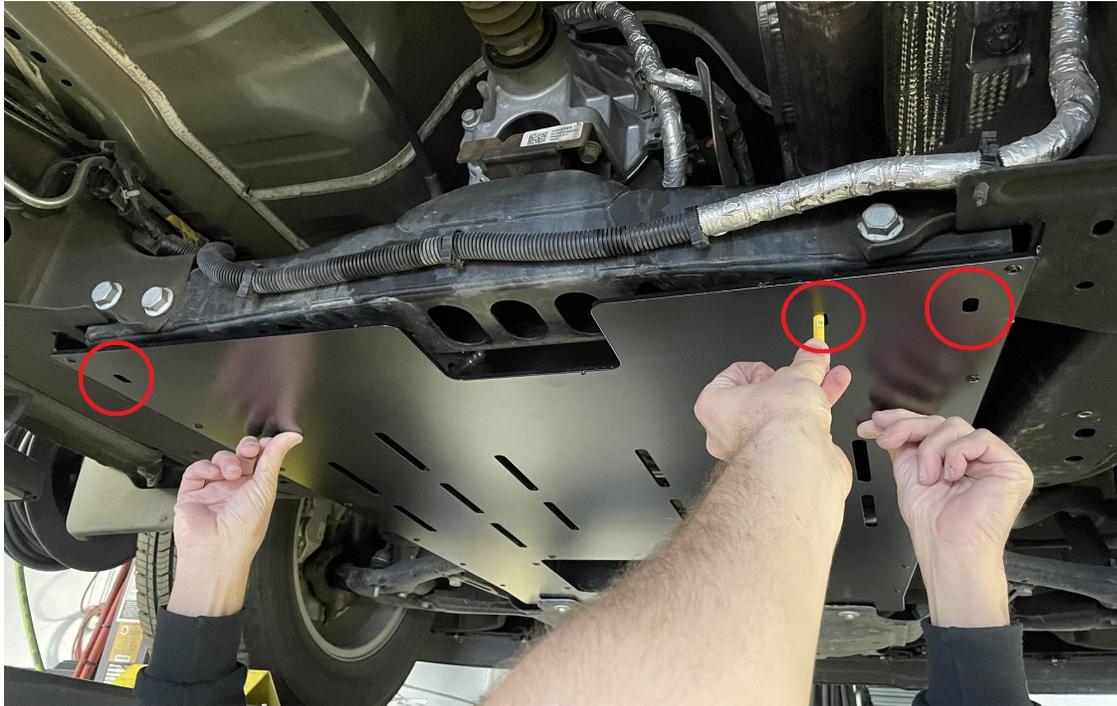




3.) Install your cat guard above the skid plate using the bolts just removed - tighten only snug.



4.) Hold the guard up against the cross member. It may touch the exhaust - that is OK for now. Square it up on the vehicle using the rear crossmember for reference. Mark through the 3 rear holes in the guard with a marker/pencil/pointy object. These marks will later be drilled out.



5.) Once the marks are made on your rear transmission crossmember, remove the guard. Drill out 17/32" holes where the three marks were made. Feel free to start with a small drill bit and work up to a 17/32".

If you don't have this size drill bit you can use a 1/2" drill bit & then bore it out with a dremel tool just enough for the supplied rivnut(s) to fit. Do NOT overbore it.



We started with a 1/8" drill bit first



Then used a 17/32" drill bit



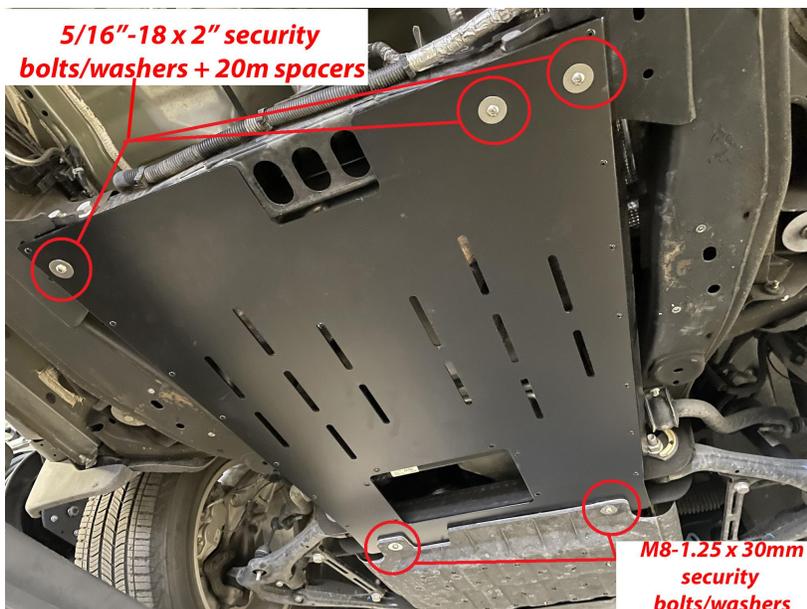
6.) Install 5/16" rivnuts into the 3 holes just drilled. Need help? See the first page and scan the QR code.



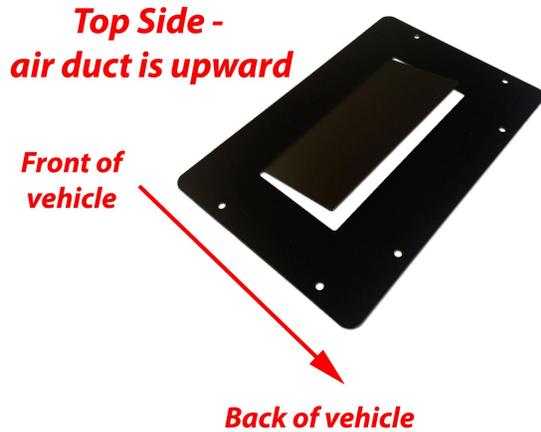


7.) Install your cat guard.

- The cat guard sits between the skid plate and frame at the front. Use the supplied M8-1.25 x 30mm security bolts and washers at the front. Use the security bit; it fits into a ¼” socket. Hand tighten for now.
- Install the three 5/16”-18 x 2” long security bolts and washers at the rear using the security bit. These use 20mm spacers between the cat guard and frame. Hand tighten for now.
- Once each bolt is installed... remove one bolt, apply blue threadlocker on the threads, then reinstall firmly. Do this to each of the 5 bolts. No need to overtighten. Let the threadlocker sit for 30 minutes before driving the vehicle.



8.) Install your oil drain cover if it isn't already installed. Use the 1/4"-20 x 1" long hex head bolts and 1/4" lock washers. Do not overtighten. It should be installed so air is directed up above the guard. Here is an example of how one should be installed: (old pic)



9.) Double check all bolts are secure and you are done! Feel free to tag us online using #FSPerformanceEngineering or #FSPEinc. If you have any questions don't hesitate to contact us.



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THANK YOU :)