

## FS Performance Engineering

Mitsubishi Outlander Sport (2010-22) Catalytic Converter Guard Installation Instructions  
Professional Installation Recommended as Always - A car LIFT is HIGHLY Recommended

### **Tools Needed:**

- Ratchet Wrench(es)
- ¼" Socket (to hold Security Bits)
- 17mm Socket or Wrench
- 17/32" Drill Bit (for the 5/16" Rivnut)
- Drill
- Rivnut Installation Tool (a heavy duty one is necessary) w/ a 5/16"-18 mandrel
- Helper
- Marker or pointy tool

### **What's Supplied:**

#### **Parts:**

(1) Catalytic Converter Shield

#### **Hardware:**

(6) 5/16"-18 Rivnuts (1 or 2 are extra)

(1) 5/16 -18 x 1" SECURITY Bolt

(4) 5/16"-18 x 2" SECURITY Bolts

(5) 5/16" ID, 1.25" OD Washers

(1) Security Bit (3/16")

(2) M10-1.25 x 25mm Hex Bolts

(2) M10 Washers

(2) 5mm Spacers

(1) Blue Threadlocker

(2) 20mm Spacers

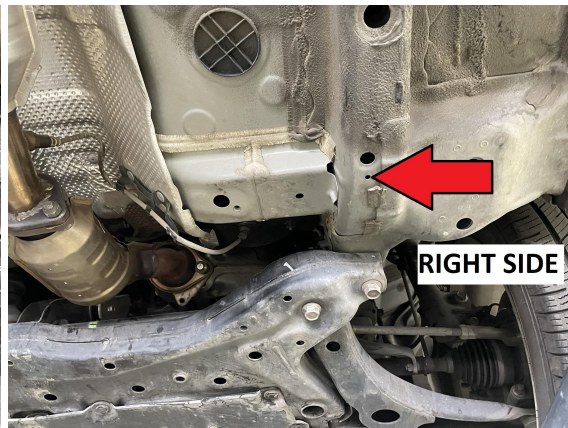
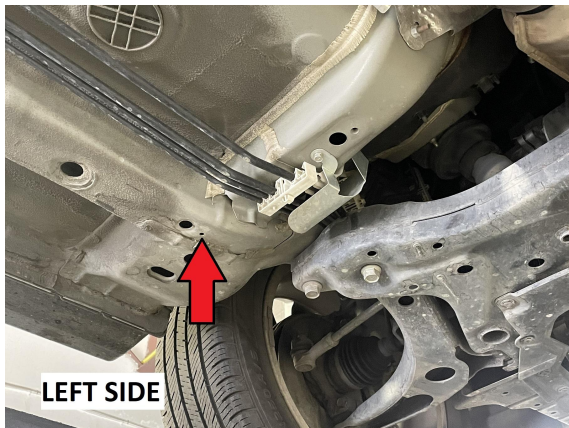
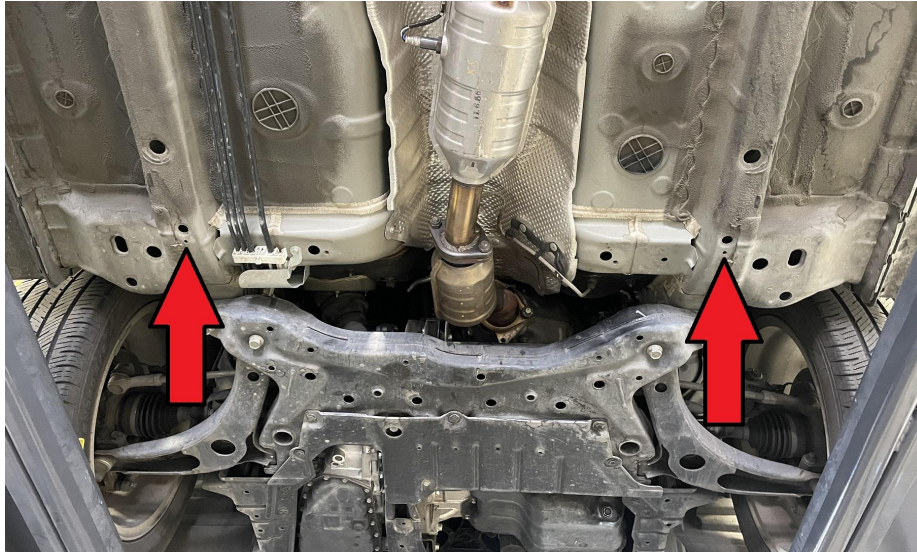
(2) 30mm Spacers



← Threaded Rivet Nut (Rivnut) Help

**Steps:**

- 1.) Begin by raising your vehicle. Place it securely on jack stands. Or alternatively use a vehicle lift. The vehicle must be high enough for you to use your rivnut installation tool.
- 2.) Identify the two small holes on either side of the frame shown below. They are just behind larger holes. Use a drill & 17/32" drill bit to open the holes.





3.) Install a 5/16-18 rivet nut (rivnut for short) into the two holes just drilled. If you don't know what a rivnut tool is, or have not used one before, please refer to the QR code listed on the first page.



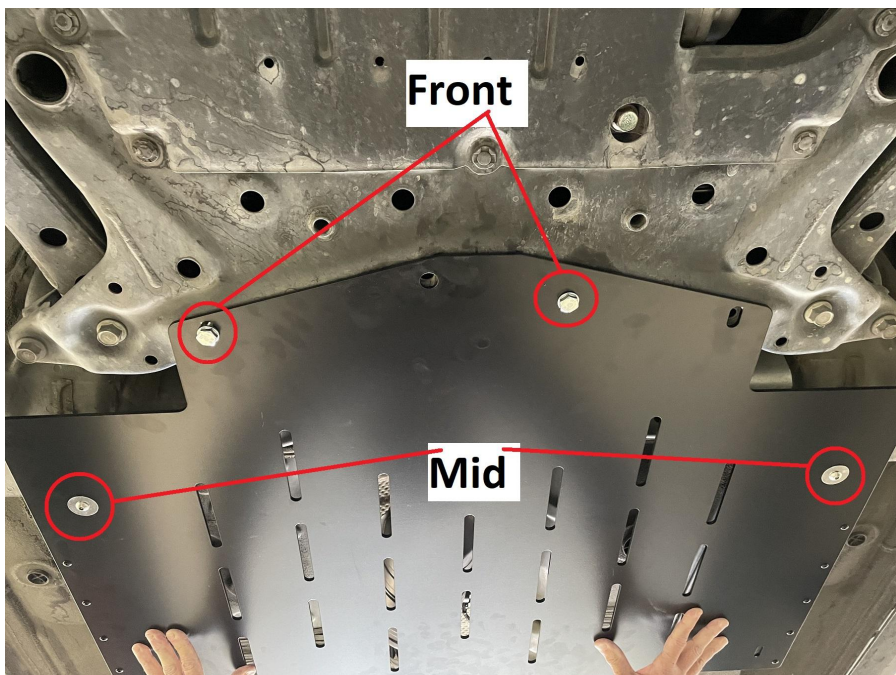
4.) Mount your catalytic converter guard into these two holes, and into the two threaded holes at the front on the chassis - hand tight. If for any reason one of the holes is not threaded, we provide an extra 5/16-18 rivnut for you to install into the frame.

Front 2 holes/threads:

- (2) M10-1.25 hex bolts
- (2) M10 washers
- (2) **5mm spacers** between guard and frame

Mid 2 holes/threads:

- (2) 5/16-18 x 2" Security Bolts
- (2) 5/16ID, 1.25OD washers
- (2) **20mm spacers** between guard and frame





5.) You can now mark the last 2 rear holes onto the frame with a marker or something pointy.



6.) Remove the guard now, and drill out the marked holes and install 5/16 rivnuts.

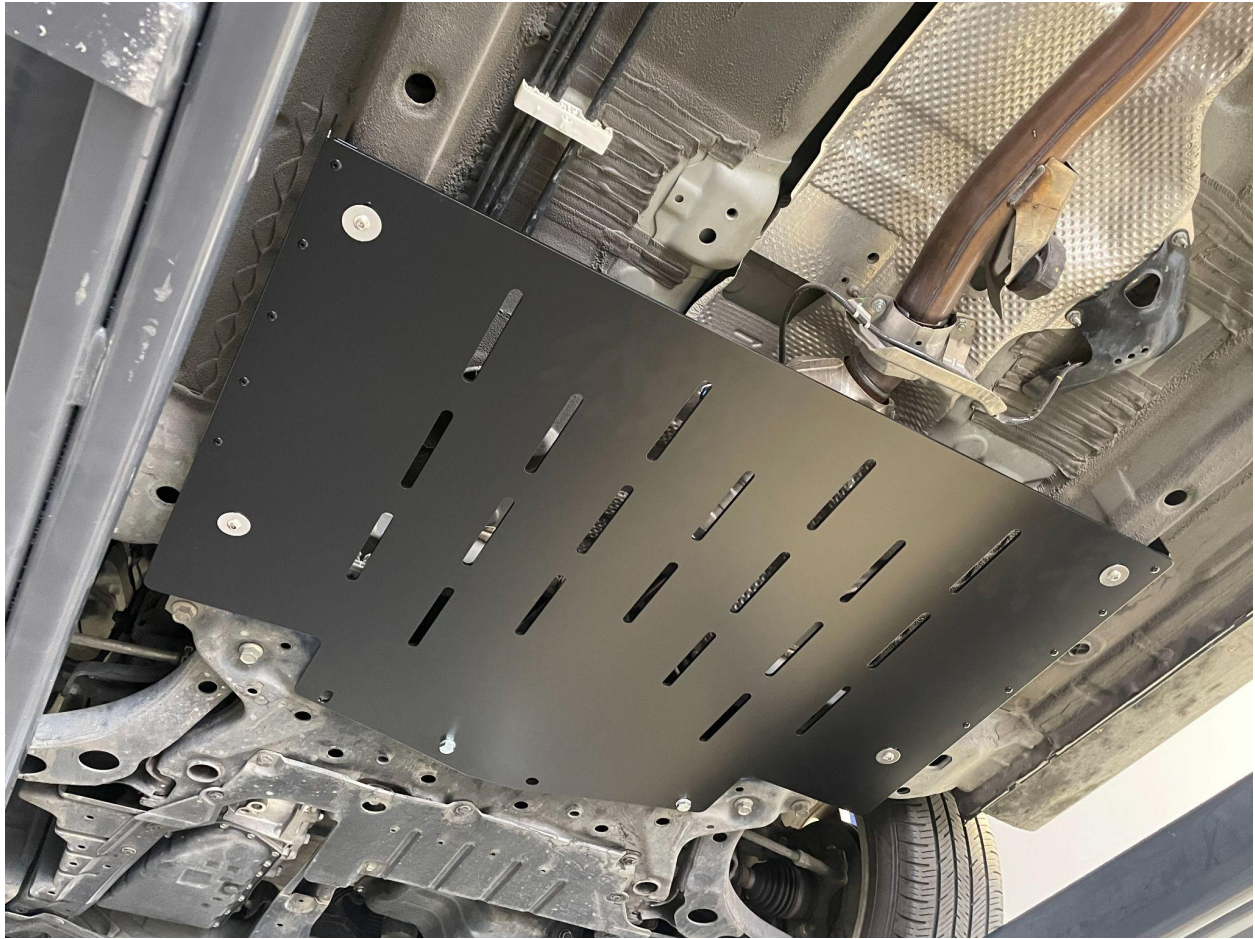


7.) Reinstall your guard with the same bolts/spacers/washers up front and in the middle. The rear two holes/slots will need 5/16-18 x 2" security bolts, 5/16x1.25" washers, and **30mm** spacers between the frame and guard. USE BLUE THREADLOCKER ON ALL BOLT THREADS.





8.) Double check all bolts are secure and you are done! Enjoy your new cat guard ! Feel free to tag us online using #FSPerformanceEngineering. If you have any questions don't hesitate to contact us.



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THANK YOU :)