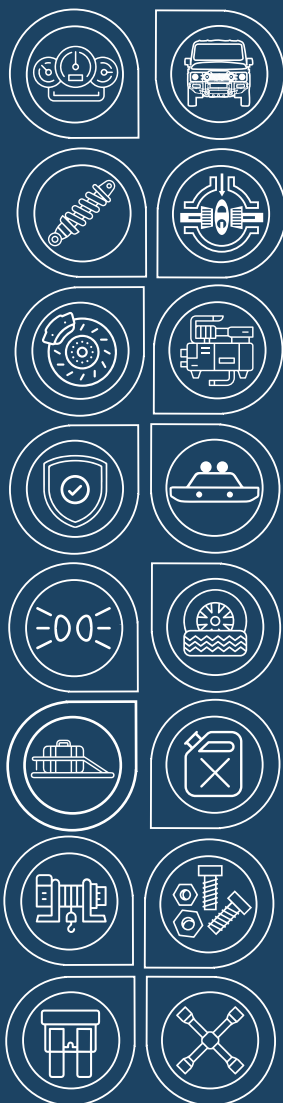




**AGILE  
OFFROAD**  
SMARTER THAN DIRT



## INSTALLATION GUIDE

Magnaflow High Tuck Exhaust System for  
INEOS Grenadier by Agile Offroad

G21-1000

# INSTALLATION GUIDE

## SPECIFICALLY DESIGNED FOR THE INEOS GRENADIER, ENHANCING OFF-ROAD CAPABILITIES

Magnaflow High Tuck Exhaust System for INEOS Grenadier  
by Agile Offroad



The Magnaflow High Tuck Exhaust System for the INEOS Grenadier is engineered to increase rear ground clearance and work seamlessly with **Agile Offroad's Rear High Tuck Skid Plate**. This system tucks the muffler and tailpipe high and tight above the frame line, significantly improving your departure angle and off-road capability.

Built from durable 409 stainless steel, this 3" exhaust features mandrel-bent tubing for optimized airflow and a straight-through resonator and muffler for smooth, consistent tone and reduced restriction. Unlike louder, aggressive systems, this exhaust delivers a subtle performance tone—slightly more pronounced than stock, but refined to preserve the upscale sound quality you expect from a vehicle like the Grenadier.

Designed as a bolt-on, direct-fit solution, it installs cleanly with stainless steel band clamps and factory mounting points—no welding or cutting required. This is the ideal exhaust upgrade for those looking to combine improved off-road performance with trail-proven armor compatibility and a sound profile that stays true to the vehicle's premium feel.

### SKU

G21-1000

### PARTS INCLUDED

1 x Magnaflow High Tuck Exhaust System

### TOOL NEEDED

T45 Torx Bit

13mm Socket

15mm Socket

16mm Socket

16mm Open Wrench

E12 Socket

Hammer

Pry Bar

Reciprocating Saw w/8" Blade

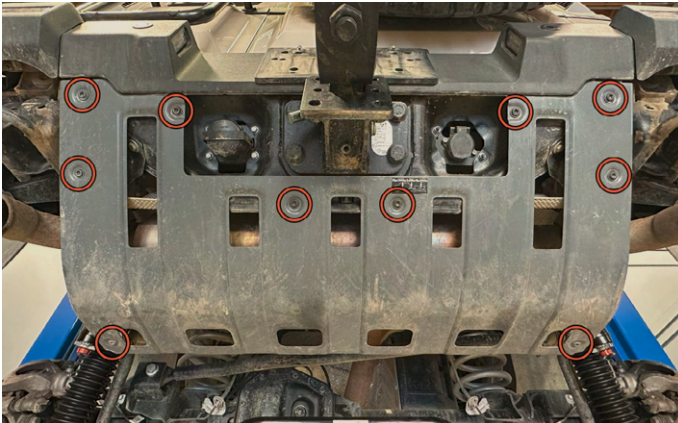
Exhaust Hanger Removal Plier (Lisle 38350)

### INSTALLATION TIME

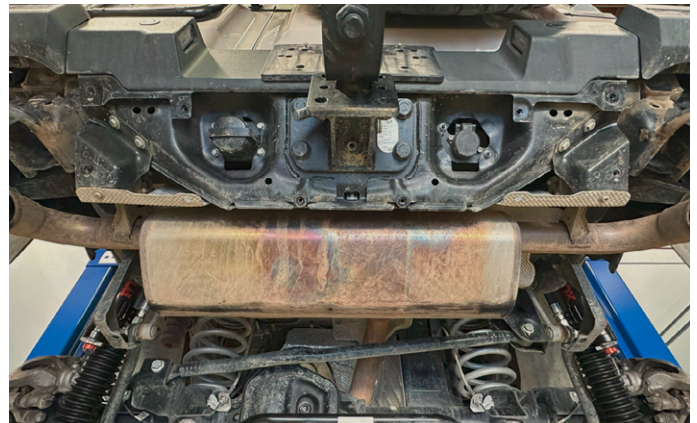
3 Hours



## INSTALLATION GUIDE



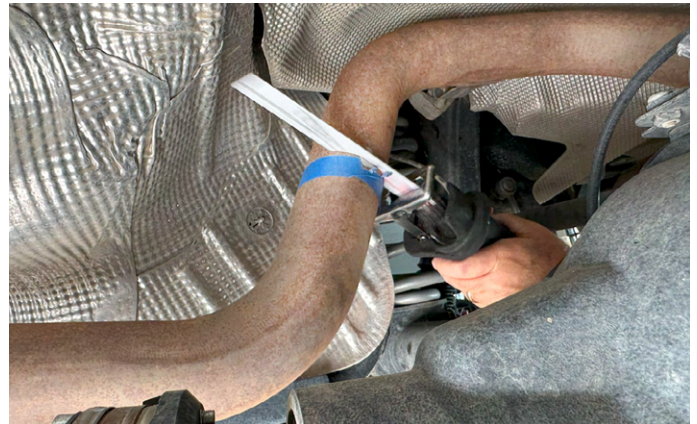
**1.** Use a T45 Torx bit to remove the ten rear skid plate screws.



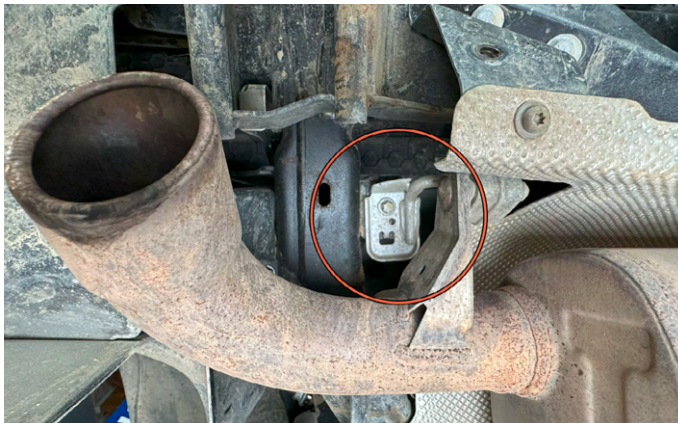
**2.** Completely remove the skid plate.



**3.** Cutting the rear section of the exhaust will facilitate the removal. We marked the best cut location using blue masking tape.



**4.** Use a reciprocating saw to cut the exhaust pipe as shown.



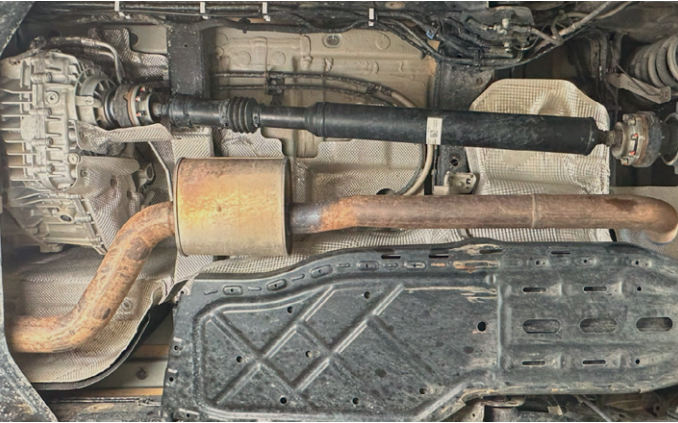
**5.** Use an E12 socket to remove the left and right muffler hangers and the over axle pipe hanger.



**6.** Remove the muffler and over axle pipe assembly.



## INSTALLATION GUIDE



**7.** The remaining front pipe assembly is held on by two hangers and a collector clamp.



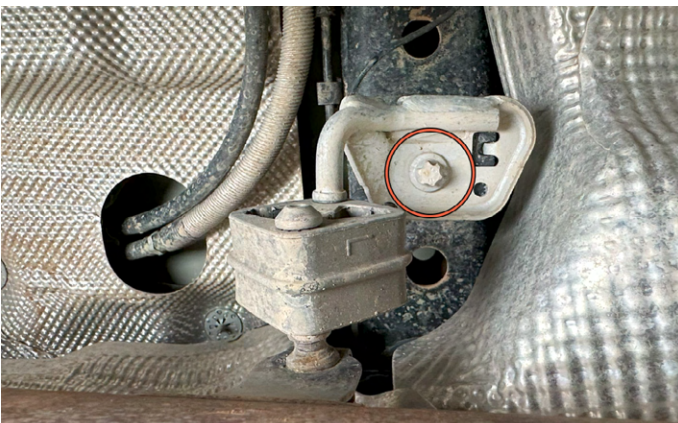
**8.** Use a 13mm socket to remove the center hanger nut.



**9.** Use a 16mm socket to loosen the collector clamp.



**10.** Use a hammer to tap the clamp bolt loose then completely remove the bolt, nut and washer assembly. Make a note of the bolt, washer and nut sequence. Use a pry bar to open collector clamp.



**11.** Use an E12 socket to remove the rear pipe hanger.



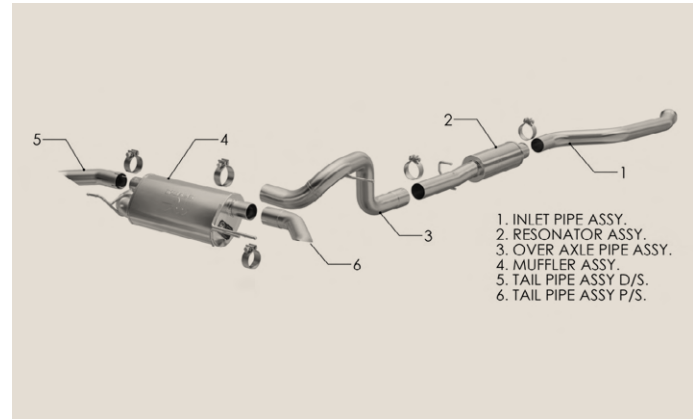
**12.** Drop the pipe assembly down at the rear to dislodge it from the collector.



## INSTALLATION GUIDE



**13.** Once dislodged, completely remove pipe assembly.



**14.** Familiarize yourself with the components.



**15.** Layout the new exhaust.



**16.** Use exhaust hanger removal pliers to remove the factory hangers. Each hanger is position specific, so it is best to remove each hanger at a time.



**17.** Install the removed hanger onto the resonator assembly as shown.



**18.** Install the removed hanger onto the over axle pipe assembly as shown.



## INSTALLATION GUIDE



**19.** Install the removed hangers onto the muffler assembly as shown.



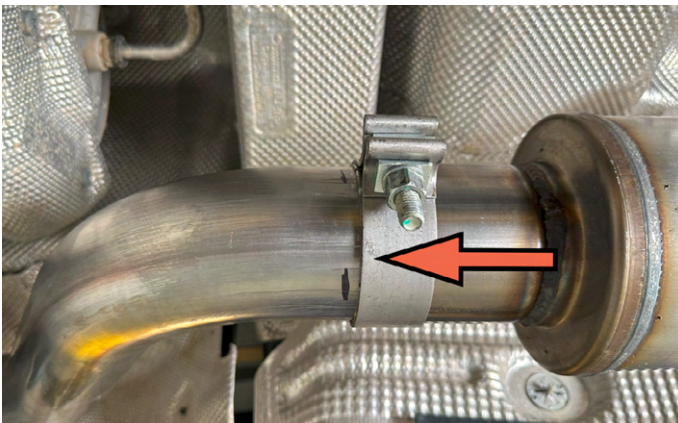
**20.** To facilitate assembly, mark the 3" slip pipes at 3 inches.



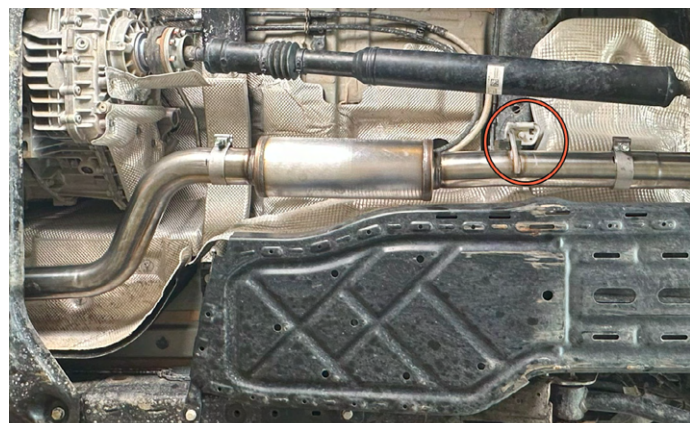
**21.** Install the inlet pipe assembly onto the front collector and reinstall the clamp nut and bolt assembly. Hand tighten only.



**22.** Reinstall the center hanger nut. Hand tighten only.



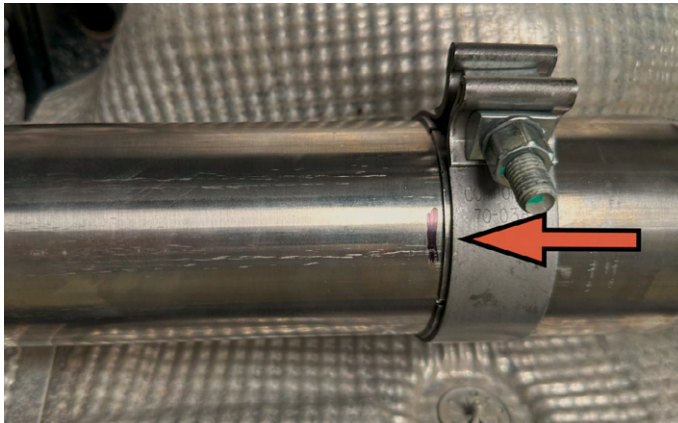
**23.** Install the resonator assembly onto the inlet pipe assembly using the supplied 3" Torca clamp. Slide pipe in approx. 3" using the previously marked locations as guide.



**24.** Use the factory hanger bolt to install resonator hanger.



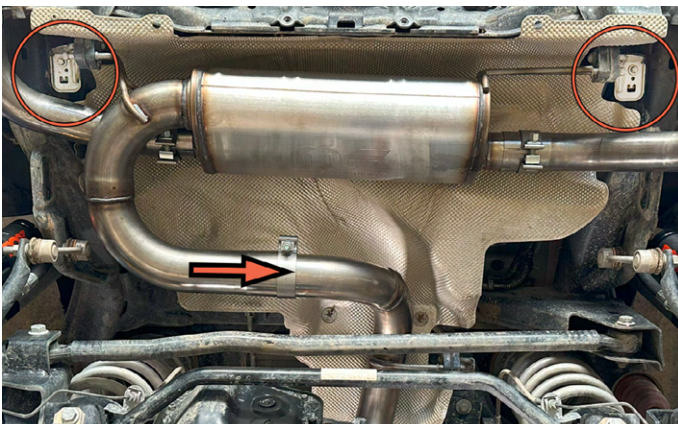
## INSTALLATION GUIDE



**25.** Install over axle pipe assembly onto resonator assembly using the supplied 3" Torca clamp. Slide pipe in approx. 3" using the previously marked locations as guide.



**26.** Use the factory hanger bolt to install over axle pipe assembly hanger.



**27.** Install the muffler assembly onto the over axle pipe assembly using the supplied 3" Torca clamp. Slide pipe in approx. 3" using the previously marked locations as guide.



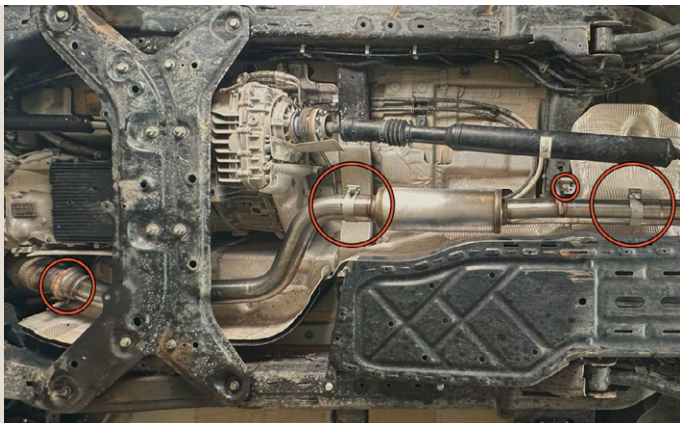
**28.** Install the tail pipes onto the muffler assembly using the supplied 2.5" Torca clamps.



**29.** Adjust the position of the tail pipes and then tighten clamps.



## INSTALLATION GUIDE



### TORQUE SPECS

Factory Collector Clamp: 25 Ft Lbs

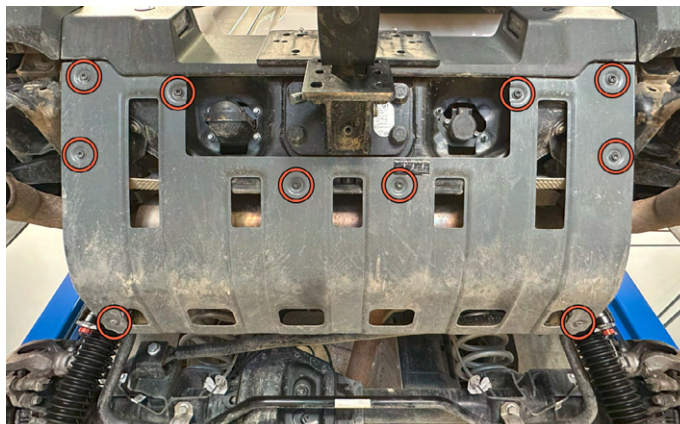
Front Hanger Nut: 20 Ft Lbs

2.5" Torca Clamps: 40 Ft Lbs

3.0" Torca Clamps: 40 Ft Lbs

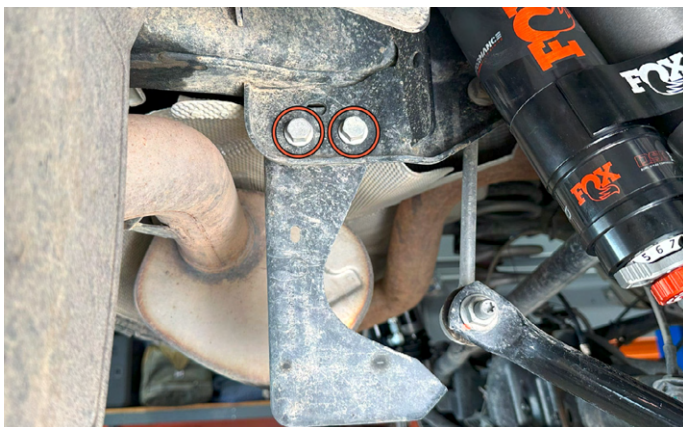
Factory Hangers: 20 Ft Lbs

**30.** Make sure the exhaust system is fully positioned then fully tighten all clamps and hangers.



**31.** Reinstall the factory skid plate using the factory hardware. Torque to 20 Ft Lbs.

## INSTALLING THE REAR HIGH TUCK SKID PLATE (G13-1000X)



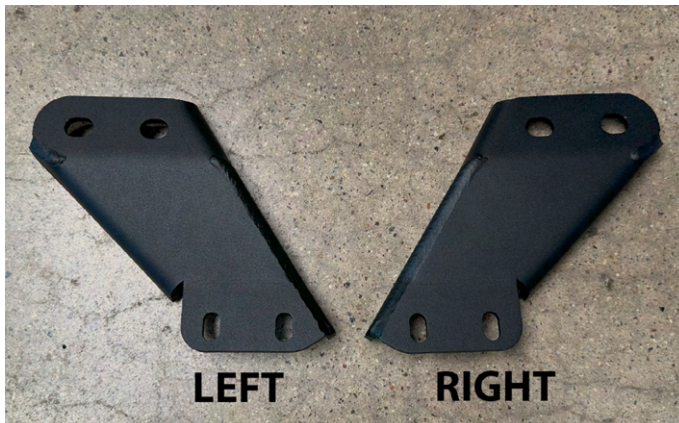
**1.** Use a 16mm socket and open wrench to remove the factory skid plate mounting bracket hardware.



**2.** Completely remove brackets.



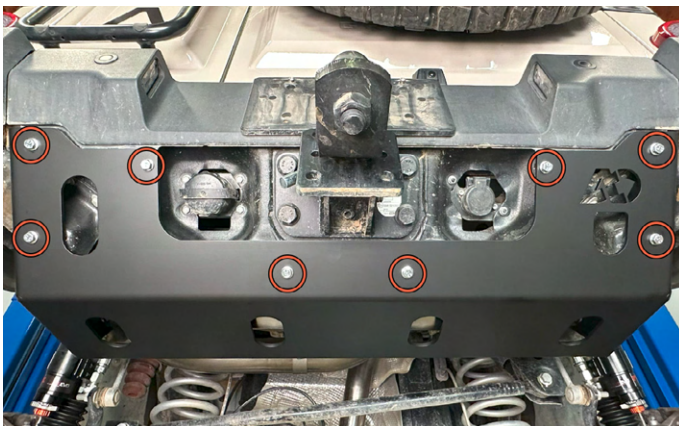
## INSTALLATION GUIDE



**3.** Identify the left and right brackets.



**4.** Install the supplied left and right skid plate brackets to the upper frame mounts using the supplied M10 x 1.5 nuts and bolts. Hand tighten only.



**5.** Install the AO High Tuck Skid Plate using 8 of the supplied M8 x 1.25 bolts. Hand tighten only.



**6.** Bolt the AO High Tuck Skid Plate onto the front mounting brackets using the supplied M8 x 1.25 bolts and nuts. Fully tighten all hardware. Torque all M8 hardware to 18 Ft Lbs and all M10 hardware to 35 Ft Lbs.



**7.** Vehicles equipped without a hitch mount can install the supplied removable hitch receiver cover using the four inner mounting bolts.

INEOS  
GRENA<sup>A</sup>DIER



AGILE  
OFFROAD



Interior



Exterior



Suspension



Air Locker &  
Drivetrain



Steering &  
Brakes



Air  
Compressors



Armor &  
Protection



Bumpers



Lighting



Wheels &  
Tires



Storage &  
Racks



Water &  
Fuel Tanks



Winches &  
Recovery



Replacement  
Parts &  
Accessories



Electrical



Tools



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