



**AGILE
OFFROAD**
SMARTER THAN DIRT



INSTALLATION GUIDE

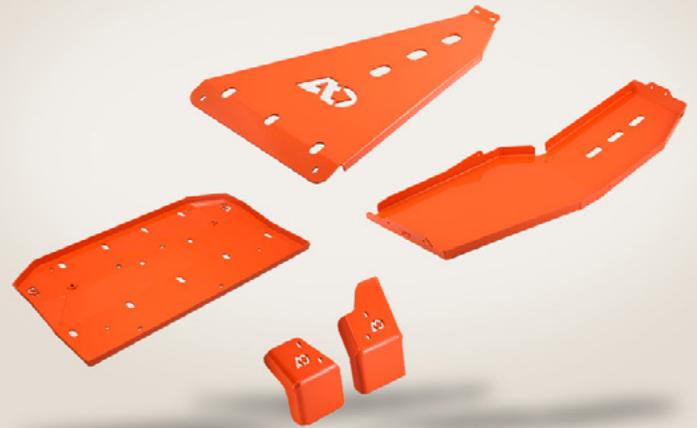
Skid Plates for INEOS Grenadier by
Agile Offroad

AO-P1G-1-X Series

INSTALLATION GUIDE

LIGHTWEIGHT & DURABLE SKID PLATES FOR THE INEOS GRENADEUR

Skid Plates for INEOS Grenadier by Agile Offroad



Upgrade your Ineos Grenadier's underbody protection with Agile Offroad's Skid Plates, made from 1/4" 5052 aluminum for maximum strength without excess weight. Available individually or as a complete package, these powder-coated plates protect your engine, fuel tank, center section, and rear control arms. Center Skid is required for Engine Skid installation. Choose from Orange, Red, or Black finishes.

SKU

AO-P1G-1-X Series (Complete Kit)

PARTS INCLUDED

Engine, Transmission, and Transfer Case Kit (Part # AO-P1G-X)

- 1 x Transmission/Transfer Case Skid Plate
- 1 x Engine Skid Plate
- 2 x Transmission/Transfer Case Frame Support Bracket
- 1 x Driver Side Crossmember Flag Nut (short)
- 1 x Passenger Side Crossmember Flag Nut (long)
- 2 x Large Frame Support Washer
- 2 x M10 x 135mm Hex Head Bolt
- 2 x M10 Split Lock Washer
- 8 x M10 Flange Locknut
- 10 x M10 x 30mm Flange Hex Bolt

Fuel Tank Skid Plate Kit (Part # AO-P1G-5)

- 1 x Fuel Tank Skid Plate
- 6 x M8 x 25mm Flange Bolt
- 6 x M8 Flange Nut

Rear Control Arm Skid Plate Kit (Part # AO-P1G-X)

- 1 x Left Side Control Arm Skid Plate
- 1 x Right Side Control Arm Skid Plate
- 4 x M8 Flat Head Torx Bolt
- 1 x Left Side Flag Bolt
- 1 x Right Side Flag Bolt

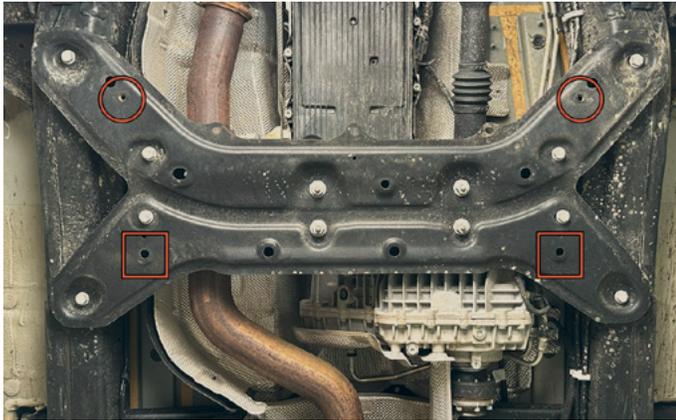
TOOL NEEDED

- Small Pry Bar
- Channel Lock Pliers
- Center-Locating Punch
- 5/16" Drill Bit
- Blue Thread Lock
- 13mm Wrench/Socket
- 15mm Wrench/Socket
- 16mm Wrench/Socket
- 17mm Wrench/Socket
- T30 Torx Bit
- T45 Torx Bit
- 10x1.5 Tap
- 1/4" Punch
- Hammer

INSTALLATION TIME

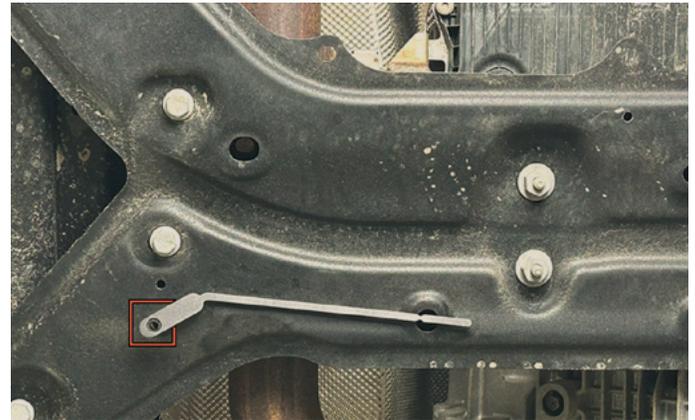
2 - 3 Hours

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TRANSMISSION/TRANSFER CASE SKID PLATE

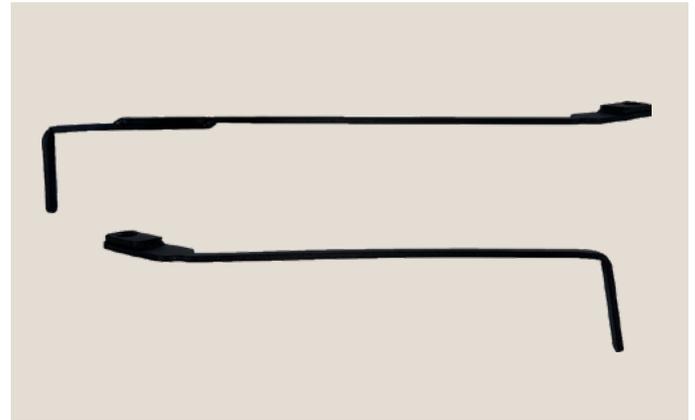
1. At the transmission crossmember, locate the two threaded holes and the two 16mm holes as shown.



2. The driver side flag nut is designed to be installed inside the crossmember cavity. **NOTE: Flag nut shown on the outside of crossmember for illustration purposes only.**



3. The passenger side flag nut is designed to be installed inside the crossmember cavity. **NOTE: Flag nut shown on the outside of crossmember for illustration purposes only.**



4. Bend the ends of both flag nuts 90-degrees as shown. **Note: the flat threaded portion of the flag nut plate must face down with the 90-degree bend.**



5. Insert the driver side flag nut into the crossmember as shown.



6. Align the flag nut threads with the outside 16mm crossmember hole as shown.

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7. Insert the passenger side flag nut into the crossmember as shown..



8. Align the flag nut threads with the outside 16mm crossmember hole as shown.



9. Locate the oval frame grommet on the inside passenger frame rail.



10. Remove grommet using a small pry bar.



11. Locate the oval grommet on the outside passenger frame rail.



12. Remove grommet using a small pry bar.

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13. Locate the oval grommet on the inside driver frame rail.



14. Remove grommet using a small pry bar.



15. Locate the oval grommet on the outside driver frame rail.



16. Remove grommet using a small pry bar.



17. Install one of the supplied frame support brackets to the inside passenger rail using the supplied M10 x 135mm hex bolt, large support washer, and M10 split lock washer.



18. View from outside passenger frame rail of the frame support bracket bolt and washers. Do not fully tighten.

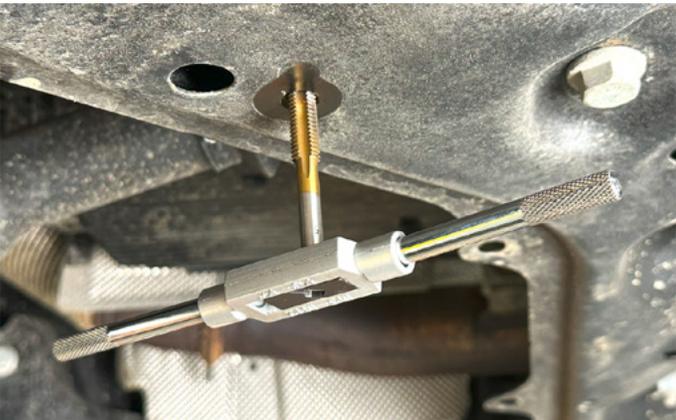
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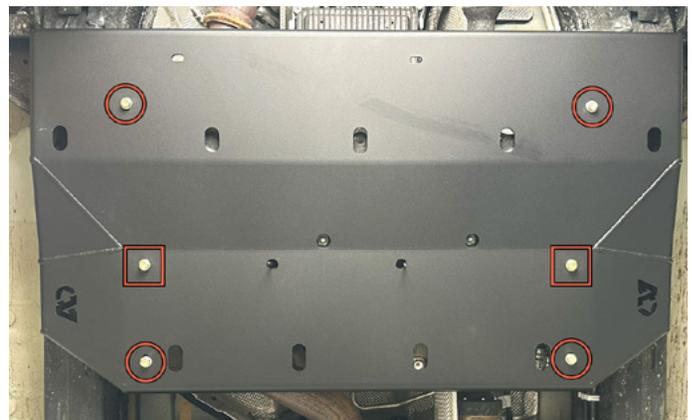
19. Install one of the supplied frame support brackets to the inside driver rail using the supplied M10 x 135mm hex bolt, large support washer, and M10 split lock washer.



20. View from outside passenger frame rail of the frame support bracket bolt and washers. Do not fully tighten.



21. Clean the two factory threaded holes as necessary. Use a 10mm x 1.5mm tap to clean any damaged threads.



22. Install the transmission/transfer case skid plate using six of the supplied M10 flange bolts and two flange nuts. Have a friend help hold the plate. Start with the factory thread holes then the frame support brackets. Finally, install the bolts to the flag nut. Fully tighten all six bolts. Torque bolts to 37 ft lbs.



23. Use a pair of channel pliers to remove flag nut tabs.



ENGINE SKID PLATE

24. Locate the mounting tab located at the front crossmember as shown.

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25. Locate the two slotted holes located on the AO Transmission/Transfer Case Skid Plate.



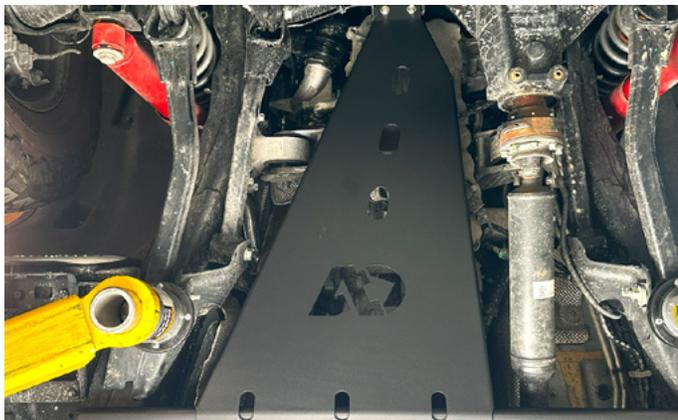
26. WARNING: Avoid making contact with the starter positive power cable.



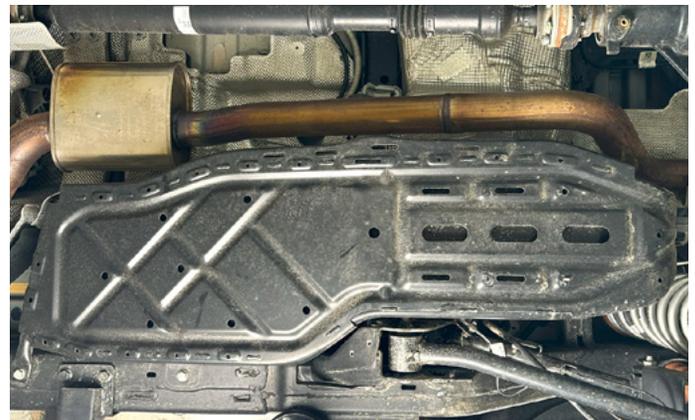
27. Bolt the engine skid plate to the front crossmember using two of the supplied M10 flange bolts and flange nuts.



28. Bolt the engine skid plate to the AO Transmission/Transfer Case Skid Plate using two of the supplied M10 flange bolts and flange nuts.



29. Fully tighten the four bolts and nuts. Torque to 37 ft lbs.



GAS TANK FUEL TANK

30. The factory fuel tank skid plate is attached by 5 bolts.

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31. Use a 16mm wrench/socket to remove the two front fuel tank skid plate mounting bolts. Have a friend help hold skid plate.



32. Use a 13mm wrench/socket to remove the side fuel tank skid plate mounting bolt.



33 A/B. Use a 16mm wrench/socket to remove the two rear fuel tank skid plate mounting bolts.



34. Place the factory fuel tank skid plate on the floor as shown.



35. Place the AO Fuel Tank Skid Plate over the factory skid plate.

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36. The AO skid plate has six holes around the sides. Use an $\frac{11}{32}$ " center-locating punch to mark the drill location on all six holes onto the factory skid plate.



37. Outside hole.



38. Rear holes.



39. Front holes.



40. Inside hole.



41. Drill a hole at all six marked locations using a $\frac{5}{16}$ " drill bit.

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42. Bolt the AO skid plate to the factory skid plate using the six supplied M8 flange bolts and flange nuts. Torque to 19 ft lbs.

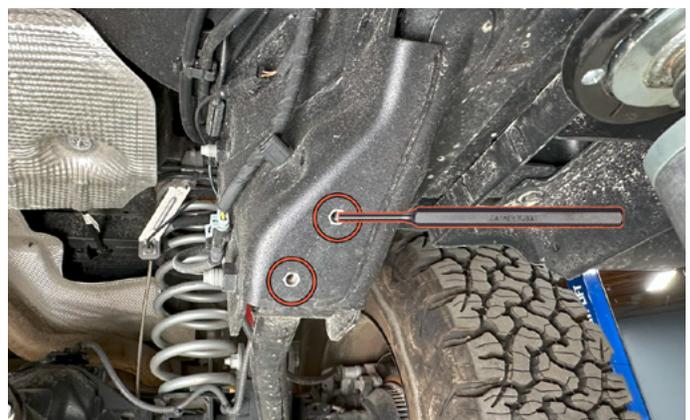


43. Re-install the complete skid plate assembly using the factory hardware. Torque the five M10 correct bolts to 37 ft lbs and the single M8 bolt to 19 ft lbs.

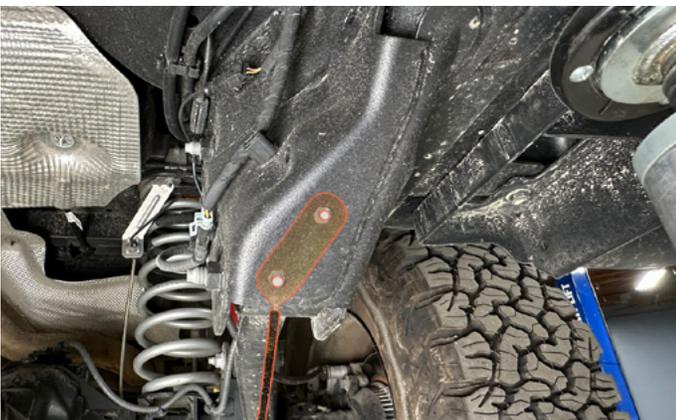


REAR CONTROL ARM SKID PLATE KIT

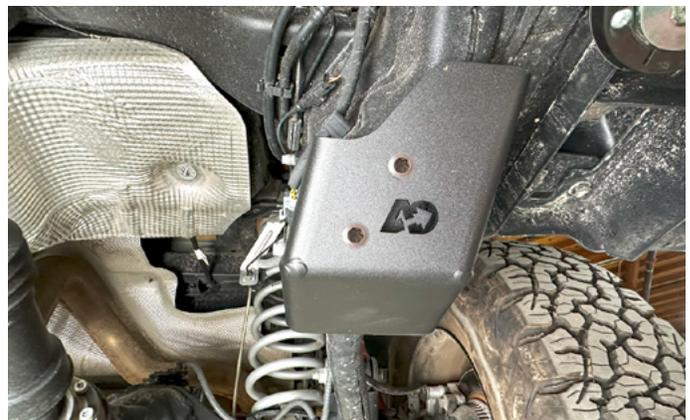
44. Locate the rear Control Arm Skid Plate hardware. Note the left and right side flag nuts.



45. Use a 1/4" punch and hammer to knock out the two factory installed threaded nut inserts located at the control arm bracket.



46. Install the flag nut into the inside cavity of the control arm bracket.



47. Install the Control Arm Skid Plate using two of the supplied M8 flat head screws. Use a T45 Torx bit to tighten screws. Torque to 21 ft/lbs. Break off the tab off flag nut. Repeat Steps 45-47 on opposite side.



INEOS
GRENADIER



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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