INSTALLATION MANUAL



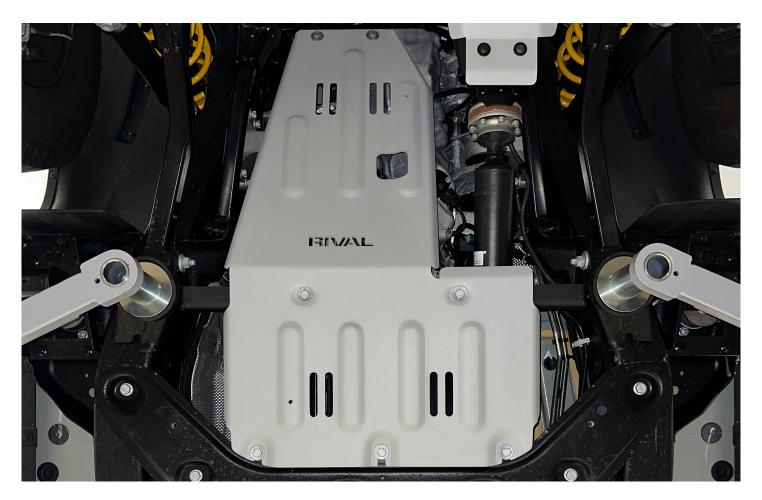
PRODUCT: ALUMINUM ENGINE SKID PLATE

APPLICATION: INEOS GRENADIER (2023-PRESENT)

PART NO: 2333.4501.1.6

UP-TO-DATE MANUAL





CAUTION!

To reduce the risk of serious injury or damage to property: Before you start installing and using this product, read the full instructions, pay special attention to the conditions of safe use and recommendations for installation! When installing or maintaining this product, it is necessary to use protective goggles. Check the integrity of the installed components and torque all hardware every 250 miles (400 kms). Discontinue use if there is any damage to the structure or fasteners!

NOTICE

Skid plates are supplemental protection. We cannot guarantee protection against all possible damage from impacts. When driving, be careful of objects and terrain that may damage sensitive parts of the vehicle.

ENGINE SKID PLATE



Part number 2333.4501.1.6

Vehicle INEOS GRENADIER (2023-Present), 3.0, 3.0D

Compatibility:

Material: Aluminum, steel



SAFETY NOTICE

- * The RIVAL skid plate is designed to complement the use and design of the specified vehicle under conditions underlined by the vehicle manufacturer.
- * While driving the vehicle at any speed, collision with another vehicle, animal or object must always be avoided.
- * Following any collision with another vehicle, animal or object, the RIVAL skid plate and the vehicle must be inspected by a specialized or suitably qualified vehicle technician for possible damage to the components and assemblies in order to confirm suitability for further use of the vehicle.
- * It is strongly recommended that you do not operate a vehicle with a damaged skid plate or its components. In the case of damage, please contact the nearest RIVAL dealer. A damaged vehicle or skid plate is extremely dangerous and should be avoided at all cost.
- * If applicable, we recommend using a funnel when changing the oil to prevent spills and ensure a clean process.

INSTALLATION NOTICE

- * The RIVAL skid plate must be mounted to the vehicle according to this installation manual.
- * Personal safety during the installation process must be adhered to at all times.
- * Do not install this skid plate on vehicle models other than those listed in this manual.
- * We recommend using blue threadlocker on all hardware
- * Estimated time for installation: 1 hour.

REQUIRED TOOLS

TORQUE SETTING

* Basic tool kit

* Torque wrench

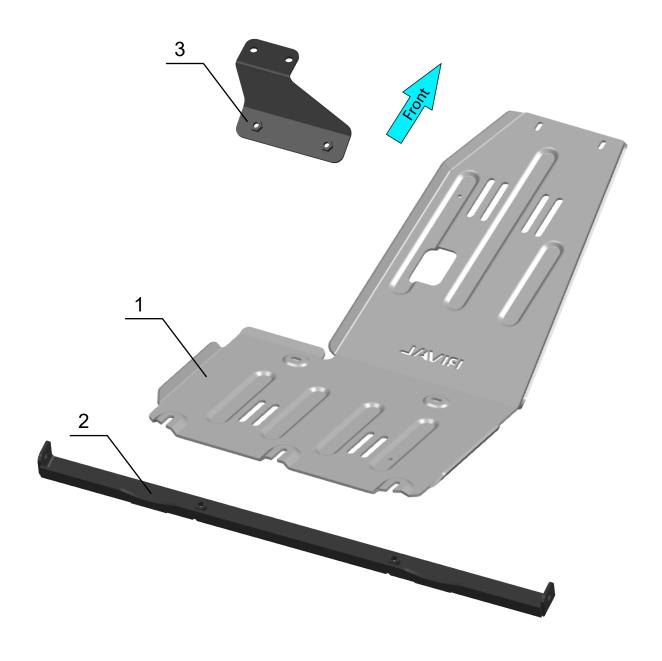
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M10 - 47 N·m (34.7 lb/ft)

PARTS LISTING

Date: 14-Oct-2024





1. Engine skid plate	Qty 1
2. Crossmember	•
3. Bracket	Qty 1

PARTS LISTING

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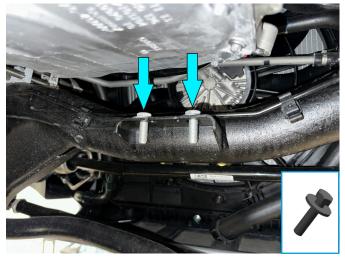


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A. Bolt M10x1.5x150	Qty 2
B. Bolt M10x1.5x30	Qty 9
C. Insert nut M10	Qty 3
D. Spacer 8mm	Qty 2
E. Washer M10	Qty 15
F. Nut M10	Qty 4
G. Spacer 10mm	Qty 2







1. Install M10x30 bolts with M10 washers (items B, E) through holes as shown in fig.1.



Fig. 2

2. Secure bracket (item 3) to the previously installed bolts using M10 nuts and M10 washers (items E, F) as shown in Fig.2.

*Do not tighten yet.

Installation without RIVAL control arm skid plates (2333.4503.1.6)

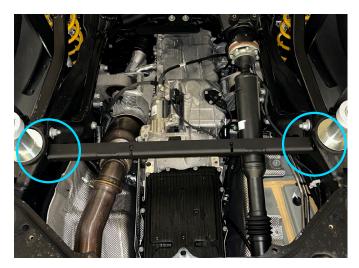


Fig. 3

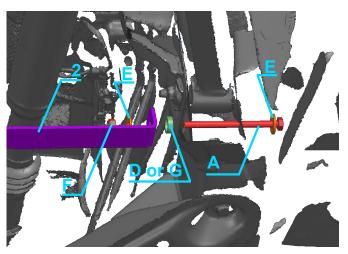


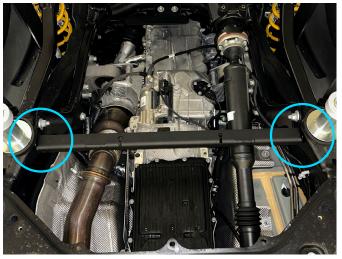
Fig. 4

- 3. Secure crossmember (item 2) using M10x150 bolts (item A), M10 washers (item E), spacers (items D or G), nuts M10 (item F) as shown in fig. 3 & 4.
- *Due to factory tolerances we include two different size spacers. Utilize the pair that offer a tighter overall fitment.
- *Do not tighten yet.
- **Proceed to step 5

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Installation with RIVAL control arm skid plates (2333.4503.1.6)



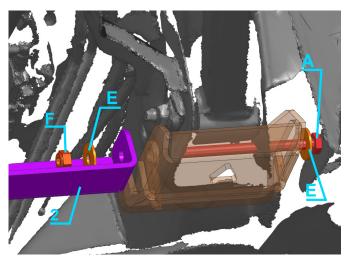


Fig. 5

Fig. 6

4. Slide the crossmember (item 2) and left side control arm skid into place. Loosely install M10x150 bolt, M10 washers and M10 nut (items A, E, F) as shown in Fig. 5 and Fig. 6. Do the same on the right side of the vehicle.

*Do not tighten yet.

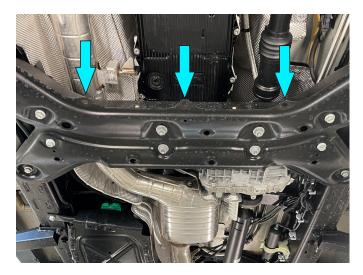


Fig. 7

5. Install M10 insert nuts (item C) above factory holes as shown in Fig.7.

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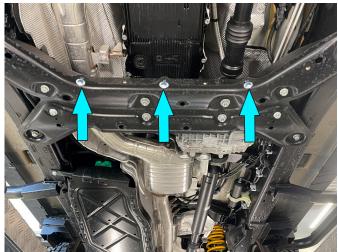


Fig. 8

6. Loosely install M10x30 bolts with M10 washers (items B, E) into insert nuts from step 5 as shown in Fig. 8.

*Do not tighten yet.



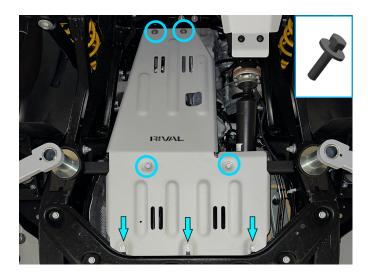


Fig. 9

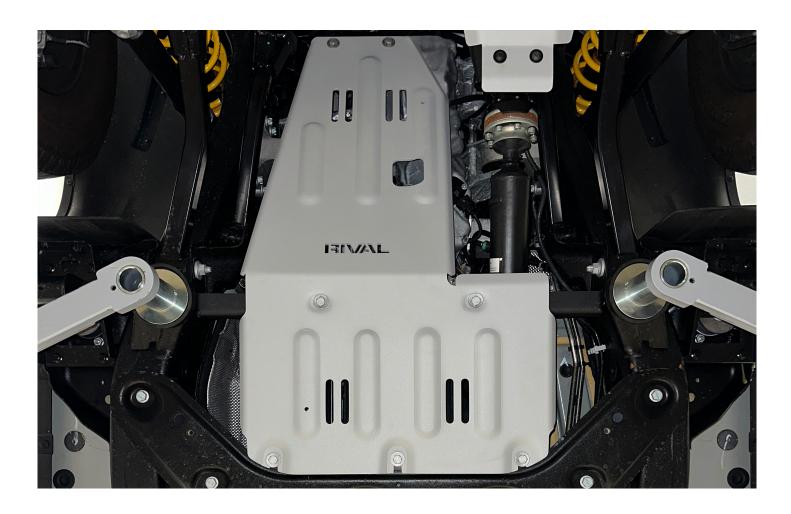
7. Slide the rear of the engine skid plate (item 1) over previously installed M10 bolts & washers from step 6. Secure the skid plate to bracket and crossmember using remaining M10x30 bolts and M10 washers (items B, E) as shown in Fig. 9.

*Once all bolts are installed, check skid plate alignment and torque all hardware.



Before operating a vehicle fitted with RIVAL Skid Plate:

- Make sure all fittings are properly torqued.
- Ensure the integrity of the structure and its components.



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