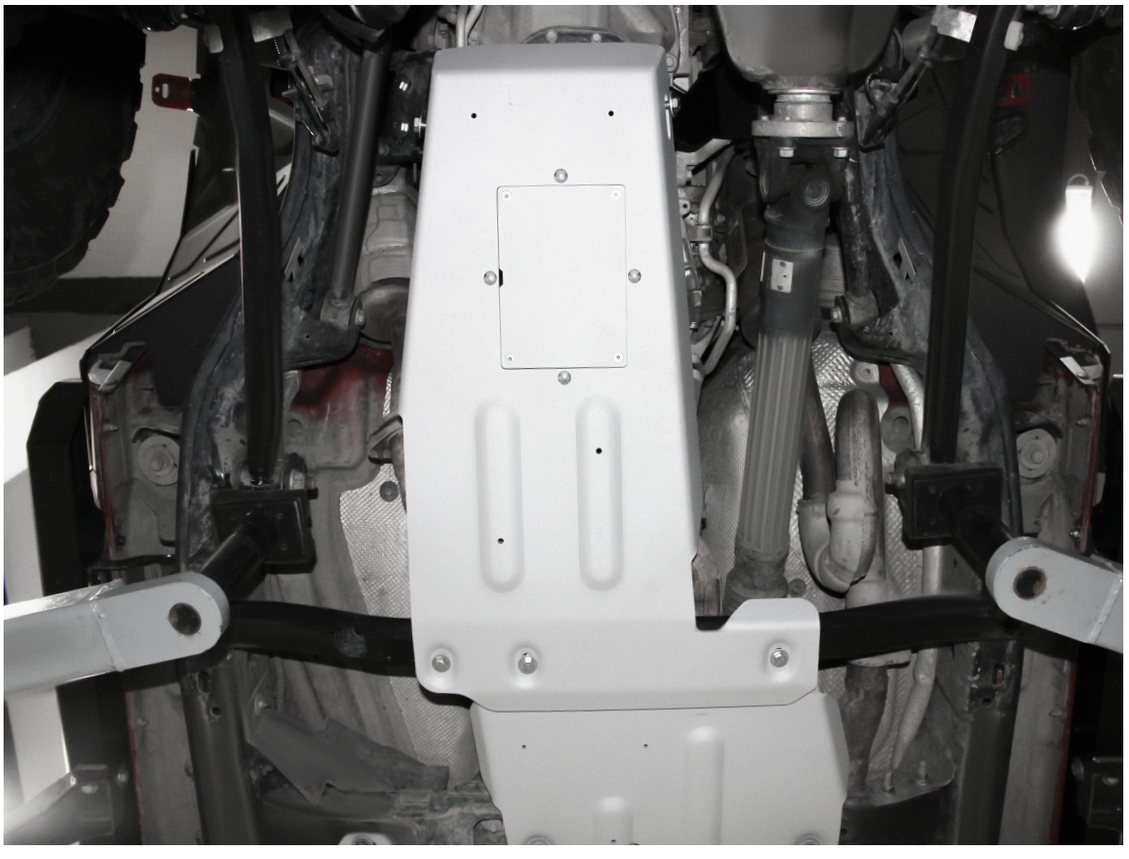
# INSTALLATION MANUAL

PRODUCT: ALUMINUM ENGINE SKID PLATE

APPLICATION: JEEP WRANGLER (2021-)

PART NO: 2333.2760.1.6



**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 structure and the moment the fastening is tightened every 250 miles (400 kms) of mileage. Do not use this product if there is damage to the structure or fasteners!

**NOTICE**

Engine skid plate is an additional protection, but it can not guarantee to protect against all possible damage in collisions. When driving, be careful of objects and terrain that may damage sensitive parts of the vehicle.

# ENGINE SKID PLATE

Part number 2333.2760.1.6

Suited to vehicle: JEEP WRANGLER (2021-) 3.6L

Material: Aluminum / Steel



# SAFETY NOTICE

* The RIVAL engine skid plate is designed to complement the use and design of the specified vehicle under conditions specified by the vehicle manufacturer.
* While driving the vehicle at any speed, collision with any other vehicle, animal or object must always be avoided.
* Following any collision with any other vehicle, animal or object, the RIVAL engine skid plate and the vehicle must be inspected by a specialized or suitably qualified vehicle repairer 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 engine skid plate or its components. In the case of damage, please contact the nearest RIVAL dealer. Vehicle, or where the skid plate has been damaged, is extremely dangerous and must be avoided at all cost.

# INSTALLATION NOTICE

* The RIVAL engine skid plate must be mounted and affixed 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 allowed in this manual.
* Estimated time for installation: 1 hour.

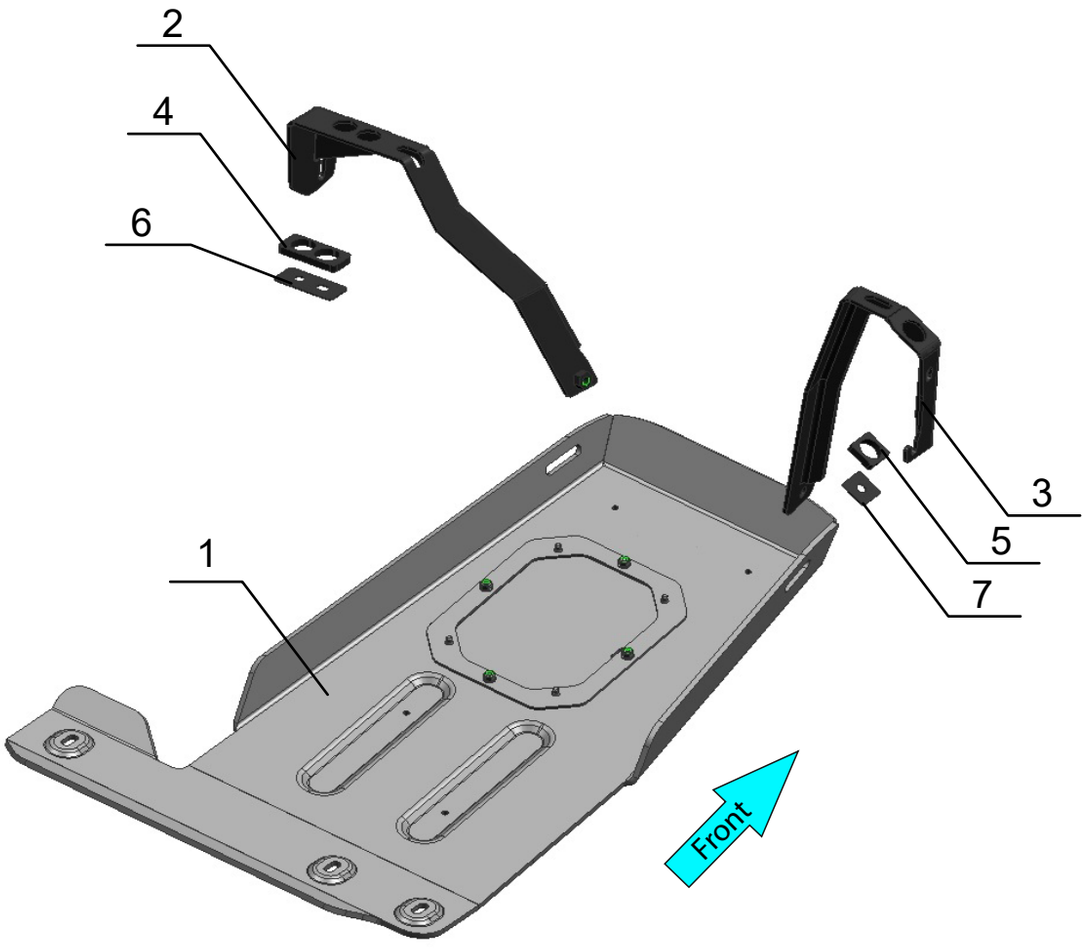
# REQUIRED TOOLS

* Ratchet * 13 mm, 17 mm.

# TORQUE SETTING

* M8 - 23 H·m (16.9 lb/ft)
* M10 - 30 H·m (22.1 lb/ft)

# PARTS LISTING




1. Engine skid plate..... Qty 1
2. Mount bracket 1..... Qty 1
3. Mount bracket 2..... Qty 1
4. Intermediate piece 1..... Qty 1
5. Intermediate piece 2..... Qty 1
6. Spacer washer 1..... Qty 1
7. Spacer washer 2..... Qty 1

# PARTS LISTING

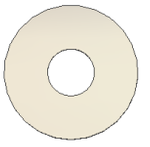
A 

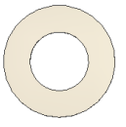
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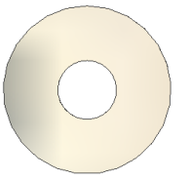
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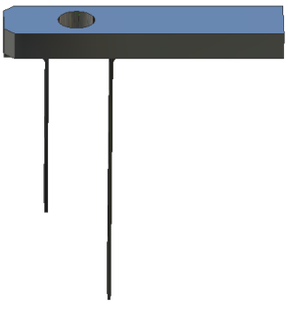
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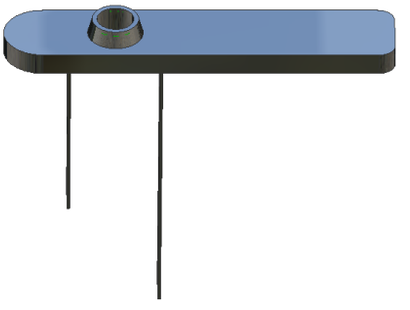
E 

F 

G 

H 

I 

J 

A. Bolt M10x1.25x50..... Qty 3
B. Bolt M10x30..... Qty 2
C. Bolt M8x35..... Qty 3
D. Bolt M8x30..... Qty 2
E. Nut M10..... Qty 3
F. Washer penny 8..... Qty 5
G. Washer 10..... Qty 3
H. Washer penny 10..... Qty 2
I. Insert nut M8 with wires ..... Qty 2
J. Insert nut M8 with wires..... Qty 3

# INSTALLATION PROCEDURE

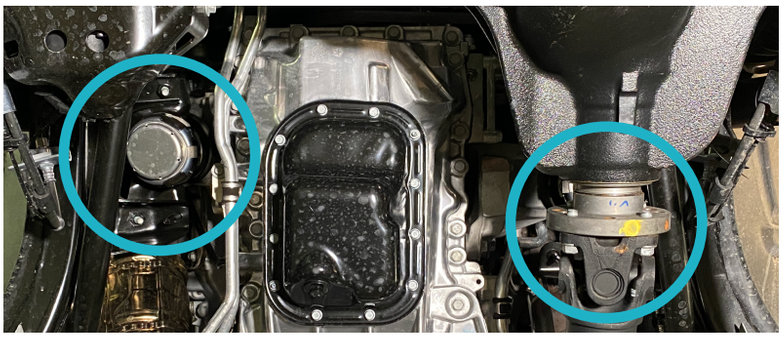


Fig.1

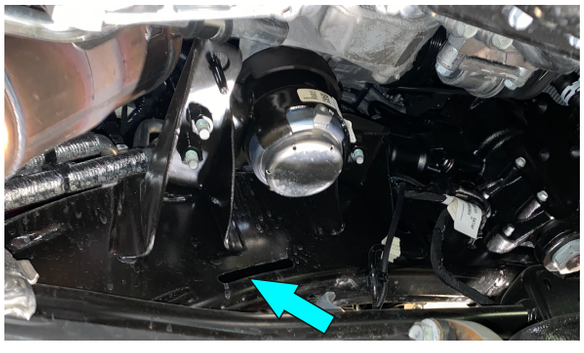


Fig.2



Fig.3

1. Install insert nut M8 with wires (item.I) into the frame from both sides (fig.1, 2, 3).
2. Loosen bolts M8x30  (item.D) with wahsers 8 (item.F) into insert nut M8 with wires(item.I).
***Do not tighten yet.**



Fig.4



Fig.5

3. Check the length of thread on OE bolts as shown in fig 4 and 5. If the thread less then 0,2 inches (6mm) follow steps 4 and 5. If the thread longer than 0,2 inches (6mm) jump on step 6.

# INSTALLATION PROCEDURE

**OE bolts replasent in case if thread less than 0,2 inches (6mm).**

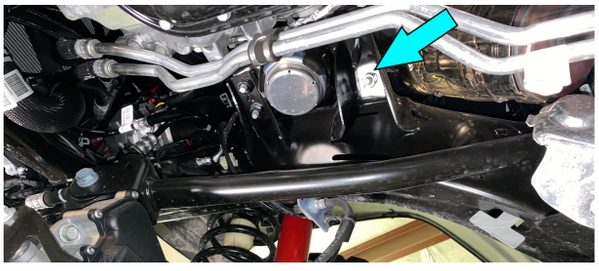


Fig.6

4. Change OE bolt on bolt M10 1,25x50 (item.A) and washer 10 (item.G) as shown in fig.6.
***Tighten all the hardware.**



Fig.7

5. Change OE bolt on bolt M10 1,25x50 (item.A) and washer 10 (item.G) as shown in fig.7.
***Tighten all the hardware.**

## Brackets installation



Fig.8

6. Install mount bracket 1 (item.2) on drivers side as shown in fig.8.
***Do not tighten yet.**



Fig.9

7. Install on mount bracket 1 (item.2) spaser washer 1 (item.4) as shown in fig.9.
***Do not tighten yet.**

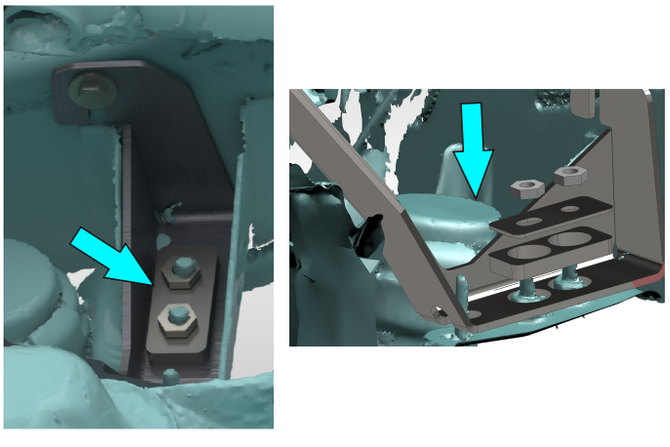


Fig.10

8. Fix mount bracket 1 (item.2) using spacer washer 1 (item.6) and nuts M10 (item.E) as shown in fig.10.
***Do not tighten yet.**

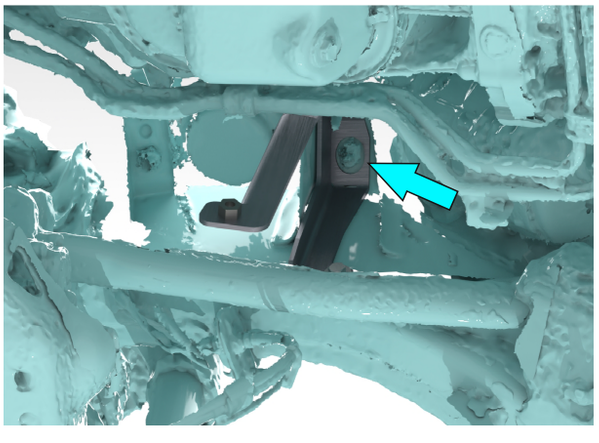


Fig.11

9. Install mount bracket 2 (item.3) on passeger's side as shown in fig.11.
***Do not tighten yet.**

# INSTALLATION PROCEDURE

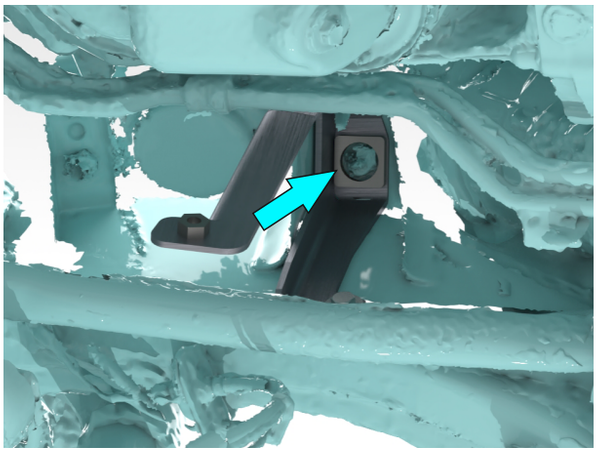


Fig.12

10. Install on mount bracket 2 (item.3) spacer washer 2 (item.5) as shown in fig.12.
***Do not tighten yet.**

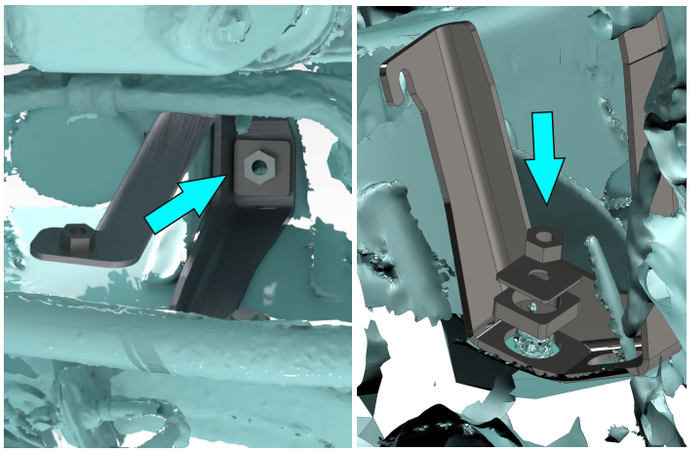


Fig.13

11. Fix mount bracket 2 (item.3) using spacer washer 2 (item.7) and nut M10 (item.E) as shown in fig.13.
***Do not tighten yet.**

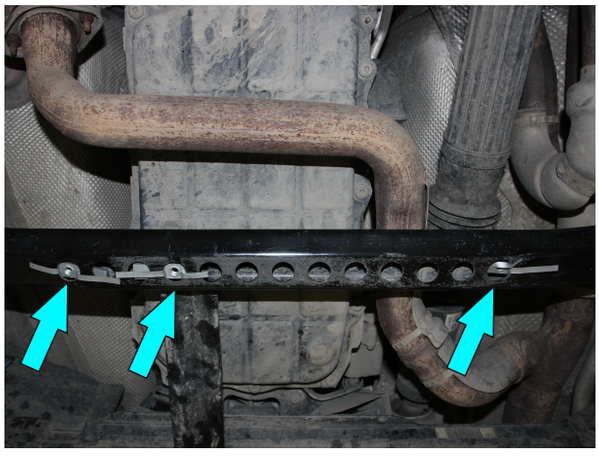


Fig.14

12. Install insert nut M8 with wires (item. J) into vehicle crossbar (fig.14).

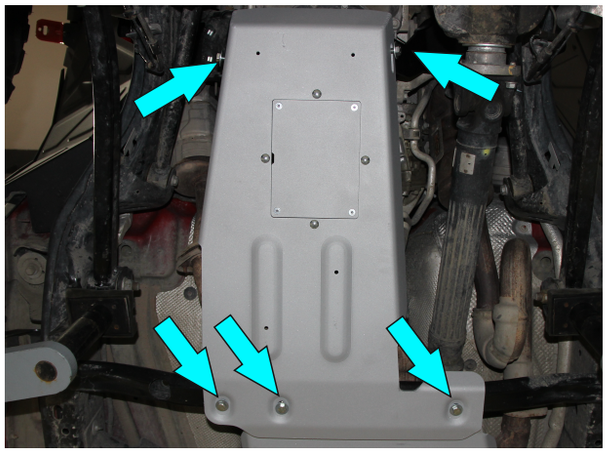


Fig.15

13. Install engine skid plate (item.1) fixing its front end with bolts M10x30 (item.B), washers 10 (item.H) to mount bracket (item.2, item.3). Fix rear end with bolts M8x35 (item. C), washers 8 (item.F) to insert nut M8 with wires (item.J) (fig.15).

14. Tighten all the hardware that attaches skid plate to brackets and to vehicle.

# INSTALLATION PROCEDURE

Before operating a vehicle fitted with RIVAL Skid Plate:

- make sure all fittings are tightened;
- ensure the integrity of the structure and its components.

