Part Number: PT938-42210
PT938-42211
PT938-42212-AA

Kit Contents

Item #	Quantity Reqd.	Description
1	1	Front Skid Plate
2	1	Rear Skid Plate
3	1	Hardware Pack

Hardware Bag Contents

Item #	Quantity Reqd.	Description
1	6	M6 x 1 Rivnut

Additional Items Required For Installation

Item #	Quantity Reqd.	Description
1	6	Plastic Clips (90179-06104)
2	6	M6x20 Bolts (90119-A0451)

Conflicts

Recommended Tools

Personal & Vehicle Protection	**Notes**
Safety Glasses	
Cut Resistant Gloves	
Special Tools	**Notes**
AVK 5500 Rivnut Tool	M6 x 1 Mandrel
Installation Tools	**Notes**
Ratchet	
Socket	10mm Deep Socket
Flat Head Screwdriver	
Torque Wrench	2-20 ft-lb range
Drill	
10mm drill bit	
Special Chemicals	**Notes**

General Applicability

All 2020 RAV4 Models

Recommended Sequence of Application

Item #	Accessory
3	Hardware Pack
2	Rear Skid Plate
1	Front Skid Plate

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Reqd.	Description

Legend

STOP: Damage to the vehicle may occur. Do not proceed until process has been complied with.

OPERATOR SAFETY: Use caution to avoid risk of injury.

CAUTION: A process that must be carefully observed in order to reduce the risk of damage to the accessory/vehicle and to ensure a quality installation.

TOOLS & EQUIPMENT: Used in Figures calls out the specific tools and equipment recommended for this process.

REVISION MARK: This mark highlights a change in installation with respect to previous issue.

SAFETY TORQUE: This mark indicates that torque is related to safety.

Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

These guidelines can be found in the "Accessory Installation Practices" document. This document covers such items as:

- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.).
- Safety (eye protection, rechecking torque procedure, etc.).
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.).
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.).

Please see your Toyota dealer for a copy of this document.

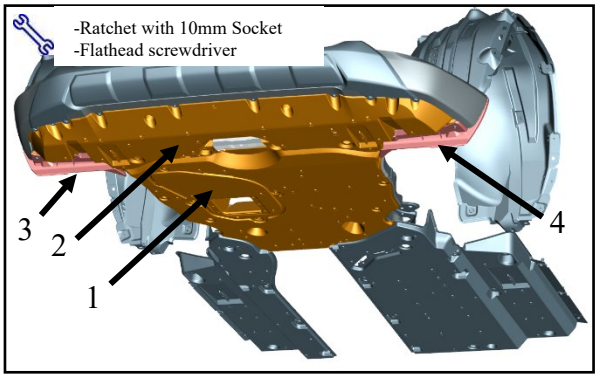


Figure 1-1 – Existing Undercovers & Mud Guards

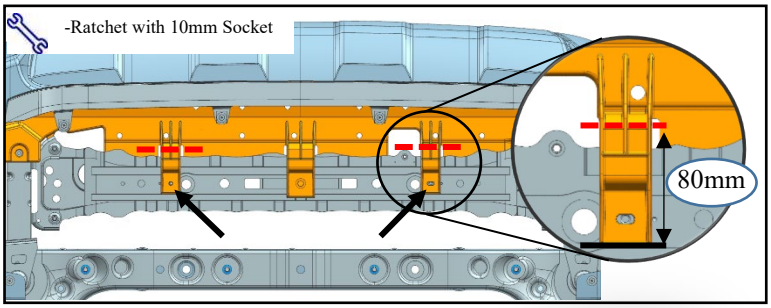


Figure 1-2 – Remove 2 Bolts

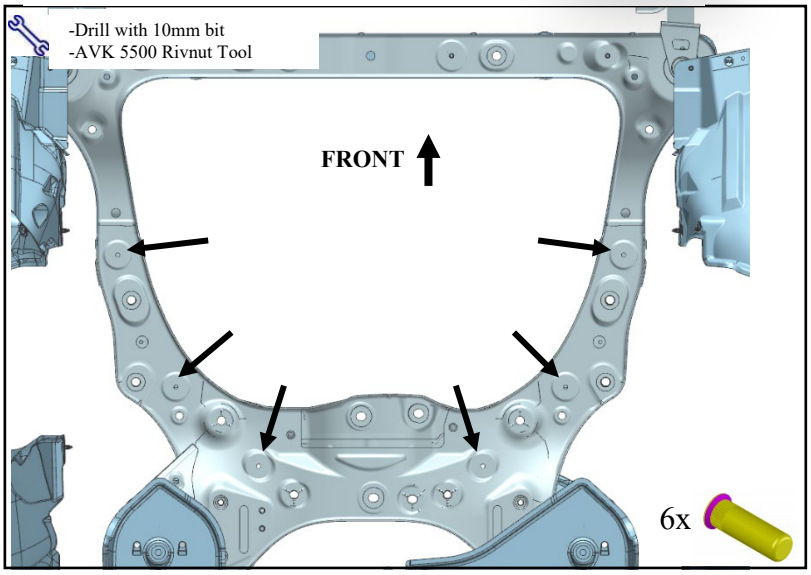


Figure 1-3 – Drilling & Rivnut Locations

1. Vehicle Preparation

(a) Installation of the skid plate should not take place until the following have been completed:

(1) Remove the existing undercovers (1 & 2) and mud guards (3 & 4) (Fig. 1-1). Set fasteners aside for use later.

(2) Remove 2 bolts shown in Fig 1-2. Set fasteners aside for use later.

(3) Cut the 2 outer tabs on the front absorber 80mm from the end (shown by the red dashed line, Fig 1-2).

(4) Enlarge 6 holes shown in Fig. 1-3 using a 10mm drill bit or a 25/64" drill bit if a 10mm drill bit is not available.

(5) Install rivnuts in locations drilled out in the previous step using a rivnut installation tool. Ensure rivnut tool is perpendicular to frame and ensure that rivnuts are fully seated before activating the installation tool.

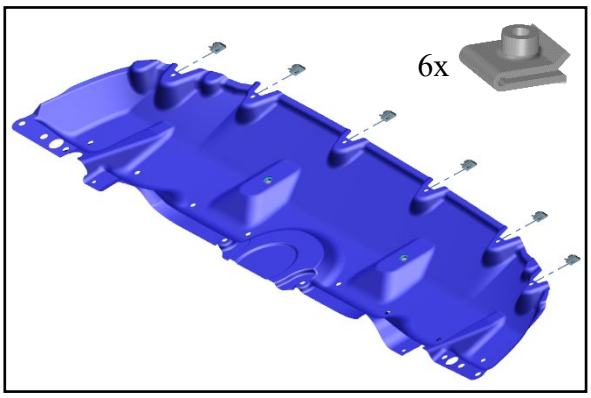


Figure 2-1 - Front Skid Plastic Clips

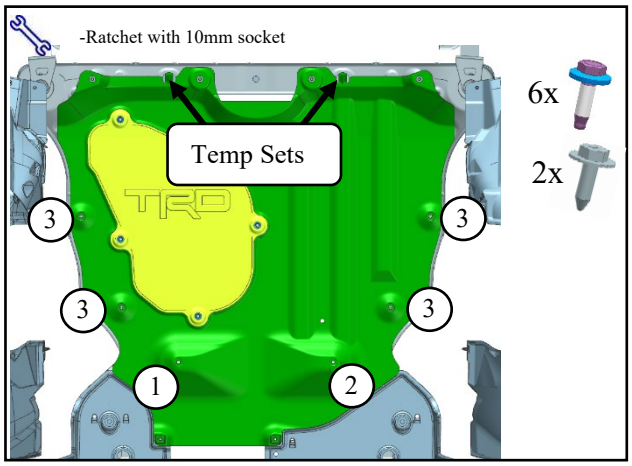


Figure 3-1 – Rear Skid Plate Installation

2. Skid Plate Preperation

(a) Add plastics clips (90179-06104) x6 to front skid plate (Fig. 2-1).

(b) Remove protective covers from spacers on front skid plate (if present).

3. Rear Skid Plate Installation

(a) Install rear skid plate using temp sets shown in Fig 3-1 followed by 6 bolts (90119-A0451) in the order shown in Fig 3-1. It is recommended to start bolts by hand as cross threading the bolts could lead to frame damage.

(b) Install 2 screws (90159-A0059, reused) at the rear of the rear skid plate.

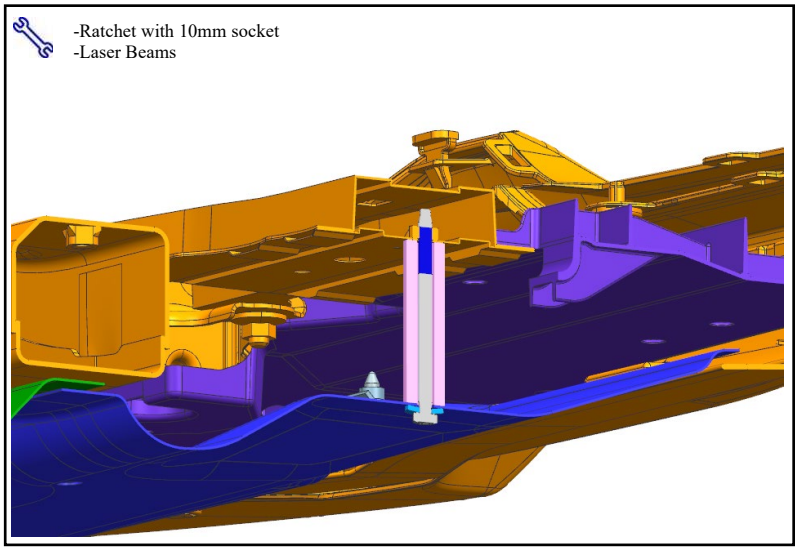


Figure 4-1 – Front Skid Plate Installation

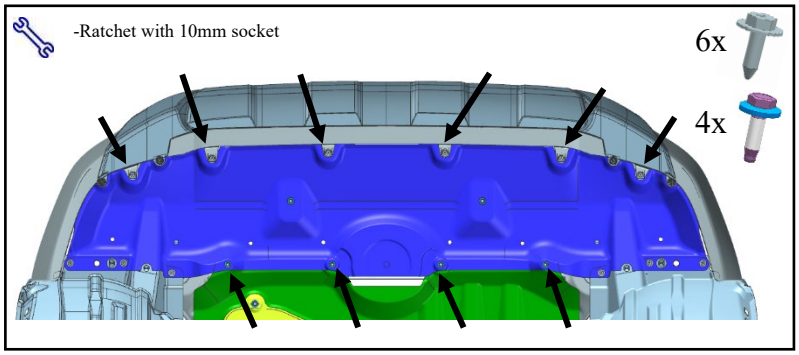


Figure 4-2 – Front Skid Plate Installation

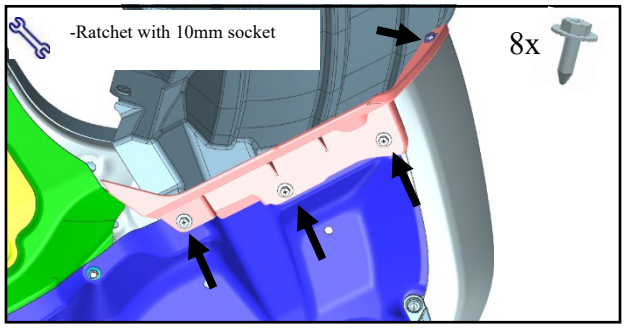


Figure 4-3 – Reinstall Mudguard (Right side shown)

4. Front Skid Plate Installation

(a) Install front skid plate using the 2 bolts already attached to the skid plate. If any of the 6 bumper tabs end up behind the skid plate pull them outside. The structure is shown in Fig 4-1.

(b) Install 6 screws (90159-A0059, reused) on front edge and 4 bolts (90119-A0451, reused) on rear edge of front skid plate in locations shown in Fig 4-2.

(c) Reinstall left and right mudguards using the 8 screws (90159-A0059, reused) that fastened the mudguards originally (Fig 4-3).

(d) Torque all bolts to 10Nm (7ft-lb). **Do not over torque bolts, over torqueing bolts can lead to rivnuts coming loose.** All screws should be hand tight.

Checklist - these points **MUST** be checked to ensure a quality installation.

Check:	Look For:
Accessory Function Checks	
☐ Check that all bolt are tight.	Lightly tap skid plate with palm, you should not hear any rattling.
Vehicle Function Checks	
Vehicle Appearance Check	
☐ After accessory installation, perform a visual inspection.	Ensure no damage (including scuffs and scratches) was caused during the installation process.