

Preparation

Part Number: PT212-34071

Kit Contents

Item #	Quantity Reqd.	Description
1	1	Skid Plate Assembly
2	1	RH Bracket Assembly
3	1	LH Bracket Assembly

Hardware Bag Contents

Item #	Quantity Reqd.	Description
1	1	Instruction Sheet
2	4	M6 Stainless Steel Hex Bolt
3		
4		
5		

Additional Items Required For Installation

Item #	Quantity Reqd.	Description
1	1	Measuring Rule
2		
3		

Conflicts

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Recommended Tools

Personal & Vehicle Protection	Notes
Safety Glasses	
Special Tools	Notes
None	
Installation Tools	Notes
Ratchet	3/8"
Socket	12 mm ,17mm
Extension	3/8"-3", 3/8" -6"
Torque Wrenches	3/8"drive (25lbf-ft) & 1/2" drive (100 lbf-ft)
Allen Hex Wrench	4mm
Special Chemicals	Notes
None	

General Applicability

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Recommended Sequence of Application






Item #	Accessory
1	
2	
3	

*Mandatory

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Reqd.	Description
1		
2		
3		

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.

Procedure

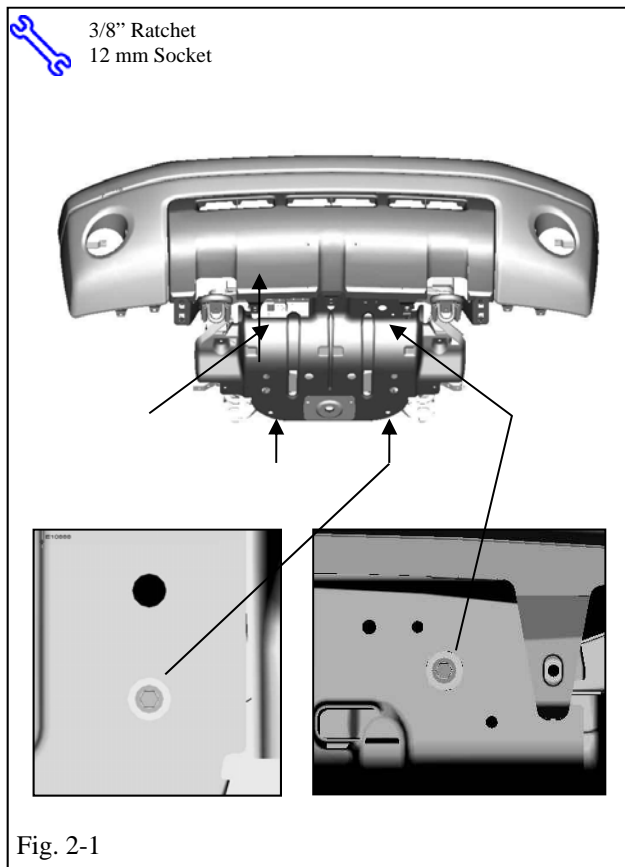
Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

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.



1. Remove Skid Plate from Packaging.

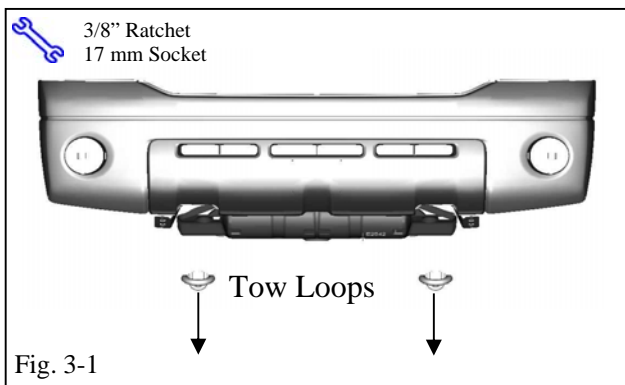
- Remove skid plate from package and place on a clean protected surface.
- Verify kit contents and inspect the skid plate for damage.

2. Skid Plate Preparation for Installation.

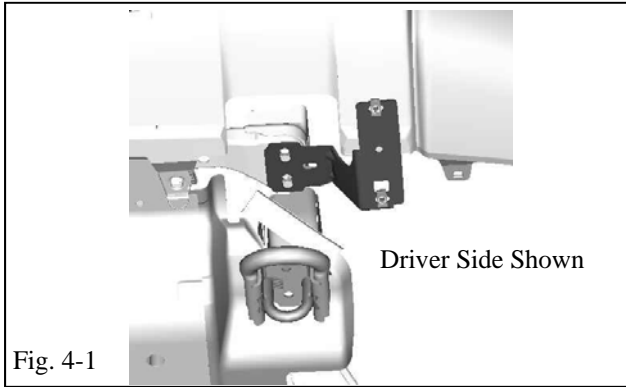
- Locate existing vehicle engine under cover.
- Remove the two (2) front and two rear M8 bolts holding the engine undercover and discard. (Fig. 2-1)

3. Front Bracket Installation.

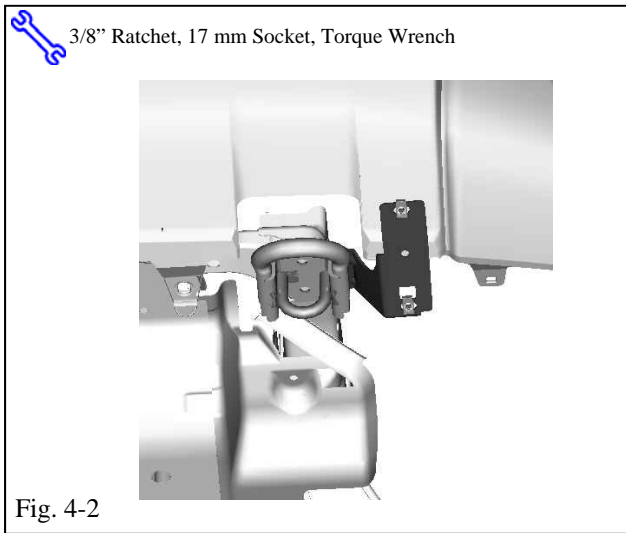
- Locate and remove two (2) M12 bolts holding each tow hook / tie down to vehicle. Remove tow hooks and keep for later installation. (Fig. 3-1).



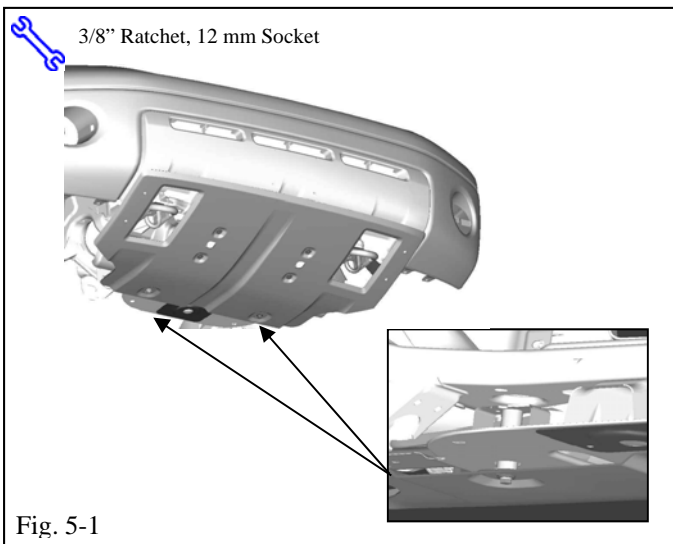
Procedure



- (b) Place brackets in tow hook loop locations. (Fig. 4-1).

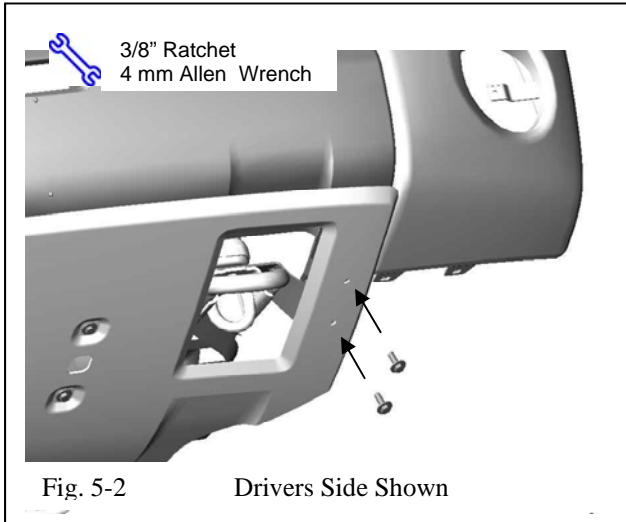


- (c) Replace tow hook and mounting bolts and tighten to where the bracket can slide. (Fig. 4-2). **NOTE:** Ensure that longer tab on the tow hook's mating surface faces towards the rear of the vehicle.



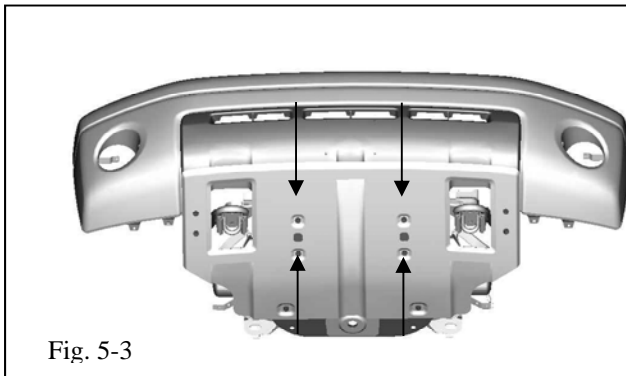
- (d) Obtain skidplate and install hand tight to vehicle make sure to align aluminum spacers into holes that original hardware was removed from. (Fig. 5-1).

Procedure



- (e) After skidplate has been mounted locate stainless fasteners and install two (2) places hand tight. (Fig 5-2).

Repeat for Passenger side.



- (f) Align skidplate so that it is visually centered. If necessary loosen four (4) M8 stainless bolts pointed out by arrows for added adjustment (fig 5-3).

- (g) Once centering is completed torque all remaining M8 hardware to 24 N-m (18 ft-lbs).

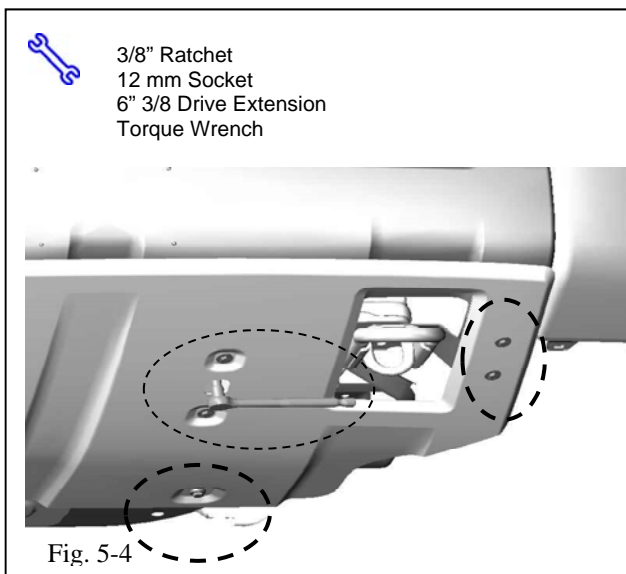
S Torque: 24 N·m (18 ft·lbf)

- (h) Torque M6 Button head fasteners to 5.4 N-m (48 in-lbs).

S Torque: 5.4 N·m (48 in-lbs)

- (i) Torque tow hook/loop bolts to 94 N-m (69 ft-lbs). Insert socket and extension through clearance holes on both sides of skidplate to torque front brackets (Fig. 5-4).

S Torque: 94 N·m (69 ft·lbf)



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

Check:

- Visual check of Skid Plate.
- Check gap.

Look For:

Visually centered left to right

Gap between vehicle bumper and skid plate ends should be at least 10mm, and a difference no bigger than 3mm between ends.

Vehicle Appearance Check

- After accessory installation and removal of protective cover(s), perform a visual inspection.

Ensure no damage (including scuffs and scratches) was caused during the installation process.
(For PPO installations, refer to TMS Accessory Quality Shipping Standard.)