

**Part Number: PT228-60242 (Front Skid Plate)
PT228-35241 (Skid Plate)**

Kit Contents

Item #	Quantity Req.	Description
1	1	Front Skid Plate (PT228-60242)
2	1	Trim Mount Bracket (PT228-60242)
3	1	Skid Plate (PT228-35241)

Hardware Bag Contents

Item #	Quantity Req.	Description
1	10	M8 x 1.25 Hex Flange Bolt
2	2	M6 x 1.0 U-Nut
3	1	Customer Care Card

Additional Items Required For Installation

Item #	Quantity Req.	Description

Conflicts

None

Recommended Tools

Personal & Vehicle Protection	Notes
Safety Glasses	
Cut Resistant Gloves	
Special Tools	Notes
Installation Tools	Notes
Ratchet	
Socket	12mm Deep Socket
Socket	10mm Deep Socket
Nylon Trim Removal Tool	
Torque Wrench	0-25 ft-lbf range
Special Chemicals	Notes

General Applicability

MY24 and newer Land Cruiser

Recommended Sequence of Application

Item #	Accessory
1	Skid Plate (PT228-35241)
2	Front Skid Plate (PT228-60242)

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Req.	Description

Legend

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

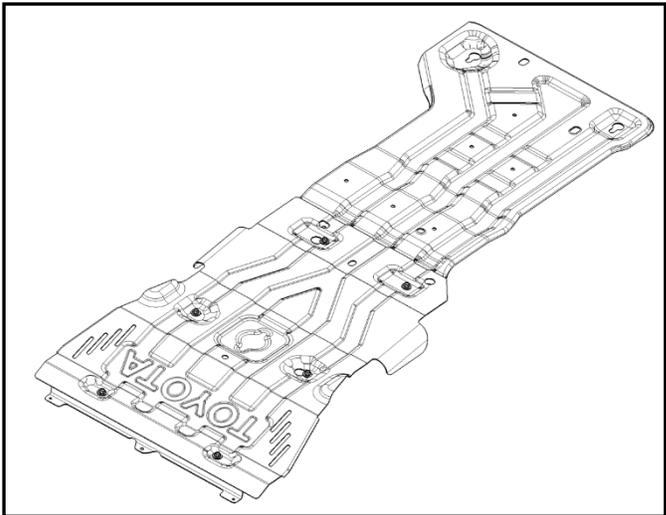
OPERATOR SAFETY: Use caution to avoid risk of injury.

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.



Procedure

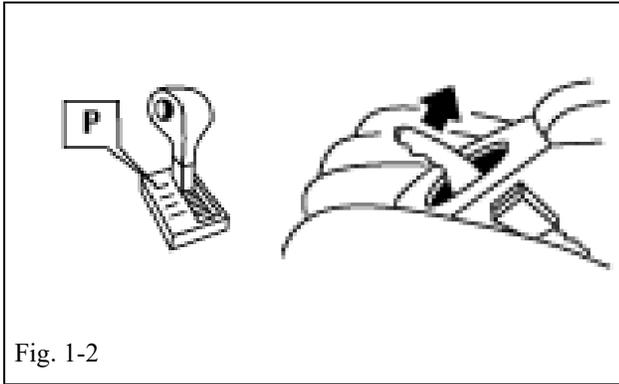
Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

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.

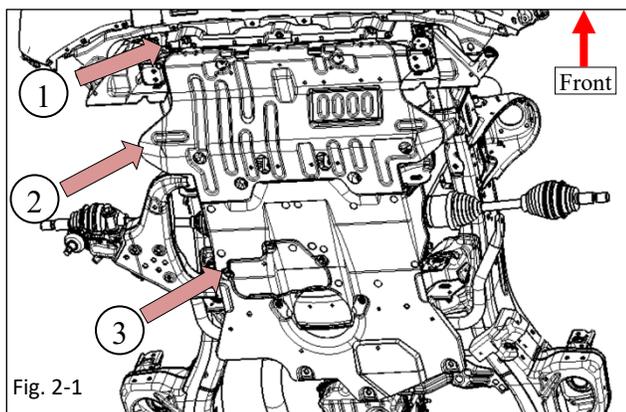


1. Vehicle Preparation



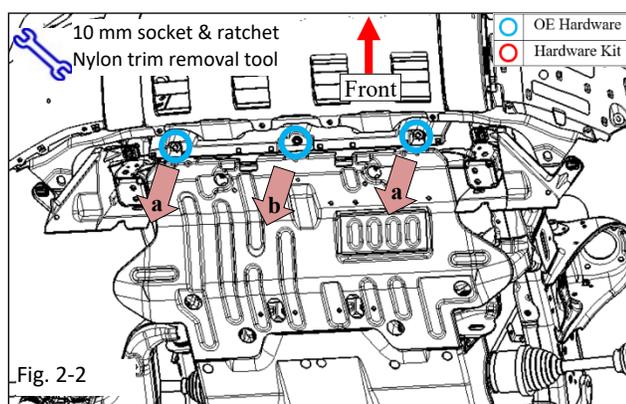
- (a) Put transmission in “P”. Firmly apply parking brake. If electronic parking brake, check that electronic parking brake is applied (Fig. 1-1).

- (b) Lift vehicle.



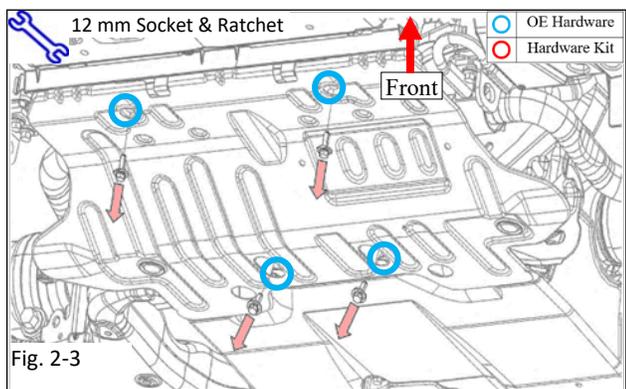
2. Remove the Undercovers

- (a) Installation of the skid plate can not be completed without removing: Plastic Trim Piece [1], Engine Undercover No.1 [2], and Engine Undercover No.2 [3] (Fig 2-1).



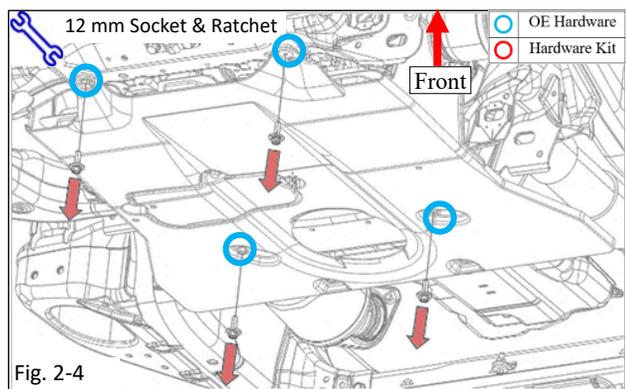
- (1) Carefully remove the 2 OE M6 bolts [a] and 1 plastic clip [b] (Fig 2-2). Remove plastic trim piece. Retain OE fasteners and trim piece for installation.

⚠ Keep note of where each fastener was removed from.



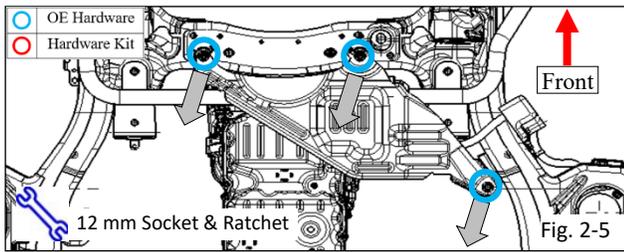
- (2) Remove the remaining 4 OE M8 bolts and remove engine undercover No. 1 (Fig 2-3). Discard Engine Undercover No. 1. Retain OE fasteners for installation.

⚠ NOTE: Make sure to hold the engine undercover in place to prevent it from falling after removing fasteners.



- (3) Remove the remaining 4 OE M8 bolts and remove engine undercover No. 2 (Fig 2-4). Discard Engine Undercover No. 2. Retain OE fasteners for installation.

⚠ NOTE: Make sure to hold the engine undercover in place to prevent it from falling after removing the fasteners.



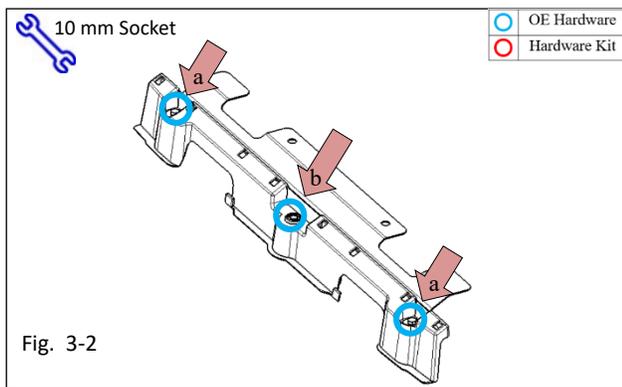
- (4) (If installed) remove 3 OE M8 bolts and remove the Stabilizer with Disconnect Mechanism (SDM) protector (Fig 2-5). Discard SDM protector. Retain OE fasteners for installation.

⚠ NOTE: Make sure to hold the engine undercover in place to prevent it from falling after removing fasteners.

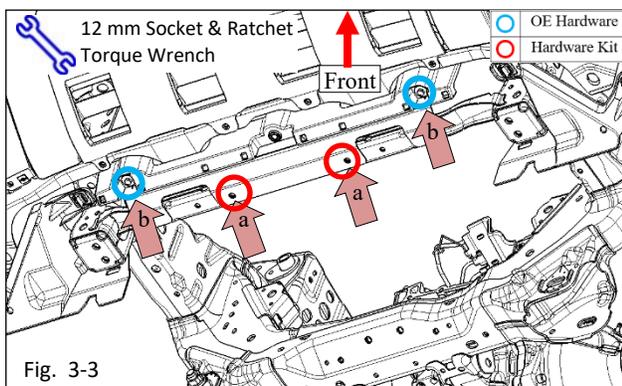


3. Bracket Installation

- (a) Take out bracket from box. Install 2 M6 x 1.0 U-Nut [a] onto the bracket (Fig. 3-1).



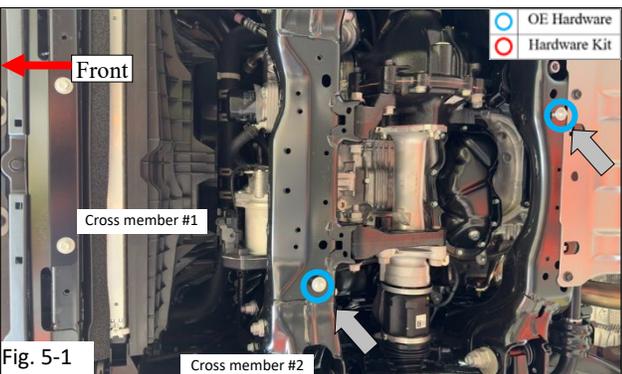
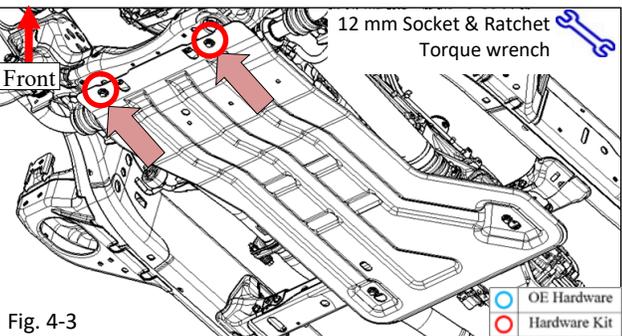
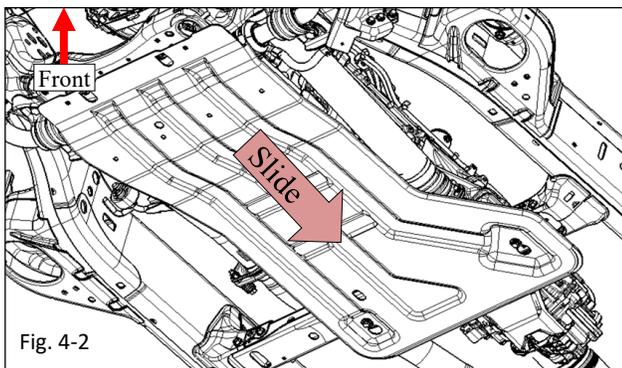
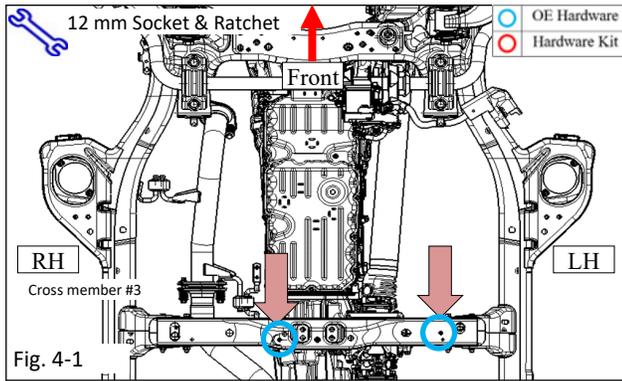
- (b) Install bracket to plastic trim piece re-using 2 OE M6 bolts [a] and 1 plastic clip [b] (Fig. 3-2).



- (c) Use 2 Hardware M8 bolts [a] to attach the bracket and plastic trim assembly to the cross member #0 (Fig. 3-3). Torque both bolts.

Torque: 29 N-m (21 ft-lbf)

- (d) Tighten OE M6 bolts [b] until snug (Fig. 3-3).



4. Skid Plate Installation (PT938-60241)

(a) Re-use and partially thread 2 OE M8 bolts into cross member #3 (Fig 4-1).

(b) Pass the temp set feature (keyhole shape), through partially threaded OE M8 bolts and engage temp set hook at the front of the plate. Slide the plate rearward (Fig 4-2).

⚠ NOTE: Ensure Front temp set hooks are engaged and washers are underneath the skid plate before installing bolts

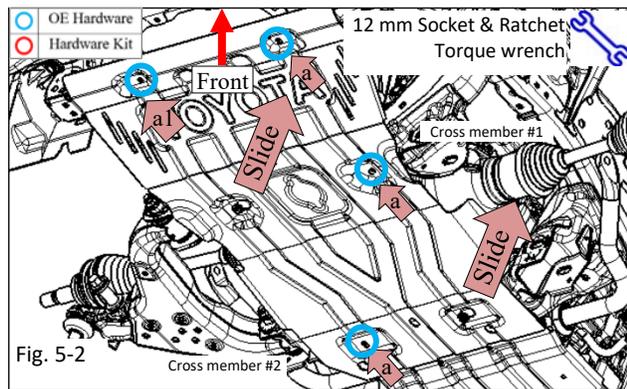
(c) Install 2 Hardware kit M8 bolts at cross member #2. while leaving the partially threaded bolts in place at cross member #3.

(d) Torque all M8 bolts. Tightening front bolts first, then rear bolts. (Fig 5-3).

Torque: 29 N-m (21 ft-lbf)

5. Front Skid Plate Installation (PT228-60242)

(a) Re-use and partially thread one OE M8 bolt into cross member #1. Re-use and partially thread one M8 bolt into cross member #2 (Fig 5-1).



(b) Slide front skid plate into partially threaded OE M8 bolt to secure into keyholes (Fig 5-2).

(c) Install 4 OE M8 bolts [a] (Fig 5-2).

(d) Torque all M8 bolts. Start with [a1], then tighten. Tighten the 3 remaining bolts.

Torque: 29 N-m (21 ft-lbf)

(e) Place Customer Care Card in the Glove Box.

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

<u>Check:</u>	<u>Look For:</u>
<p><u>Accessory Function Checks</u></p> <p><input type="checkbox"/> Check that all bolts are tight.</p> <p><input type="checkbox"/> Customer Care Card is in Glove Box</p>	<p>Lightly tap skid plate with palm, you should not hear any rattling.</p> <p>Check that the customer care card is in the glove box.</p>
<p><u>Vehicle Function Checks</u></p>	
<p><u>Vehicle Appearance Check</u></p> <p><input type="checkbox"/> After accessory installation, perform a visual inspection.</p>	<p>Ensure no damage (including scuffs and scratches) was caused during the installation process.</p>