

**Part Number: PTR60-35160**

**Kit Contents**

Item #	Quantity Req.	Description
1	1	TRD Skid Plate
2	1	Instruction Sheet
3	1	Hardware Kit (Pre-installed)

**Recommended Sequence of Application**

Item #	Accessory
1	TRD Suspension
2	TRD Skid Plate
3	

\*Mandatory

**Hardware Bag Contents (PTR60-35160-HW)**

Item #	Quantity Req.	Description
1	2	M12 x 31.5mm Spacer
2	2	M12 x 45mm Spacer
3	2	M12x1.25x67mm SEMS Bolt
4	2	M12x1.25x90mm SEMS Bolt
5	2	M8x1.25x35mm SEMS Bolt
6	4	M12 Bolt Retainer
7	2	M8 Bolt Retainer
8	4	M8x1.25 Truss Head Bolt
9	4	M8x1.25 Hex Style Rivnut
10	1	Customer Care Card

**Vehicle Service Parts** (may be required for reassembly)

Item #	Quantity Req.	Description
1		
2		
3		

**Additional Items Required For Installation**

Item #	Quantity Req.	Description
1		
2		
3		

**Conflicts**

SR5, TRD Sport, or Limited bumper fascia
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**Recommended Tools**


<b>Personal &amp; Vehicle Protection</b>	<b>Notes</b>
<b>Special Tools</b>	<b>Notes</b>
<b>Installation Tools</b>	<b>Notes</b>
Torque wrench	20-75 N-m (15-60 ft-lbf)
Sockets	12mm, 17mm
Ratchet handle	
Ratchet extension	6"
High Rise Jack Stand or similar support equipment	With wood block or padding.
5mm Allen socket	
<b>Special Chemicals</b>	<b>Notes</b>


**General Applicability**


TRD PRO and Off-Road models ONLY
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**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.

The Skid Plate does not have to be removed to perform an oil and filter change.

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.).

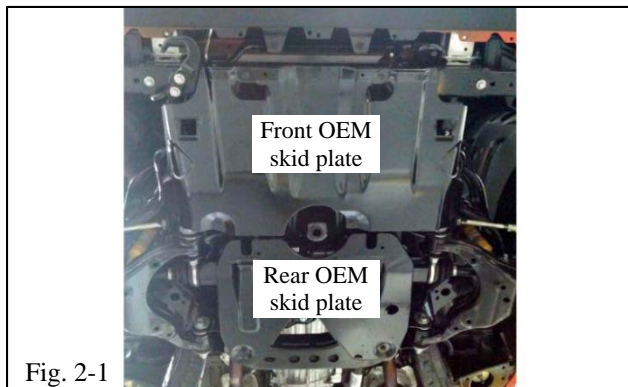
Please see your Toyota dealer for a copy of this document.

### 1. Unpack and Inspect the Skid Plate.

- (a) Carefully open skid plate packaging and verify that all items are included and undamaged.

### 2. Remove and Discard the OEM Skid Plates and Fasteners (Skip for FSA builds).

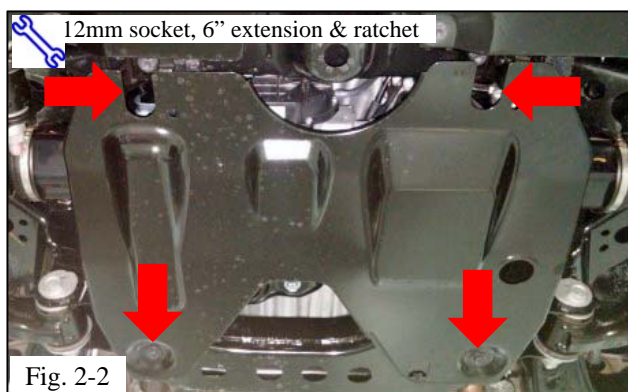
- (a) Locate the rear OEM skid plate (Fig. 2-1).

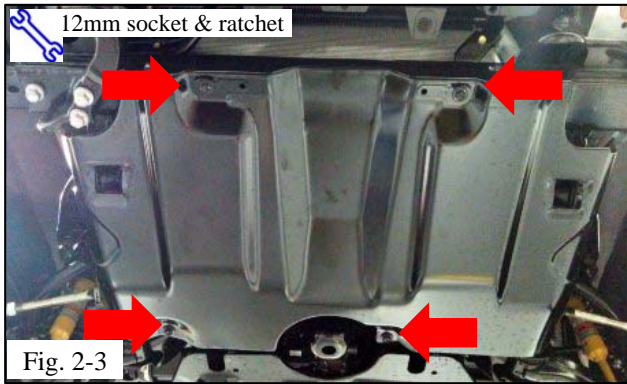


- (b) Use a 12mm socket to remove the four bolts (M8 x 1.25 x 20mm) that secure the rear skid plate (Fig. 2-2). An extension is needed for the two forward bolts.

**⚠ CAUTION:** Hold the skid plate when removing the fasteners so that it does not fall.

- (c) Locate the front OEM skid plate (Fig. 2-1).



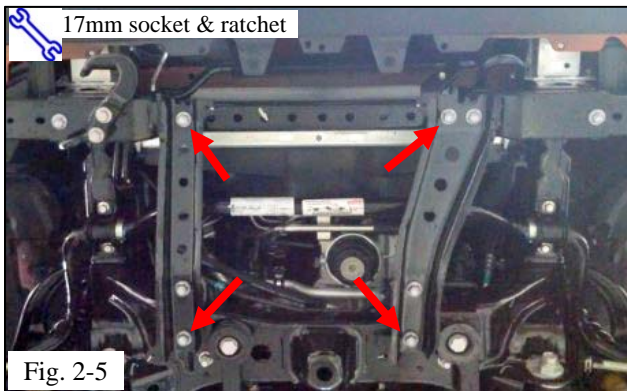


(d) Use a 12mm socket to remove the four bolts (M8 x 1.25 x 20mm) that secure the front skid plate (Fig. 2-3).



(e) Push the skid plate forward to release it from the two hooks (circled) on the forward edge (Fig. 2-4).

**⚠ CAUTION:** Hold the skid plate when removing the fasteners so that it does not fall.



(f) Use a 17mm hex socket to remove the four bolts (M12 x 1.25 x 28mm) from the member braces (Fig. 2-5).

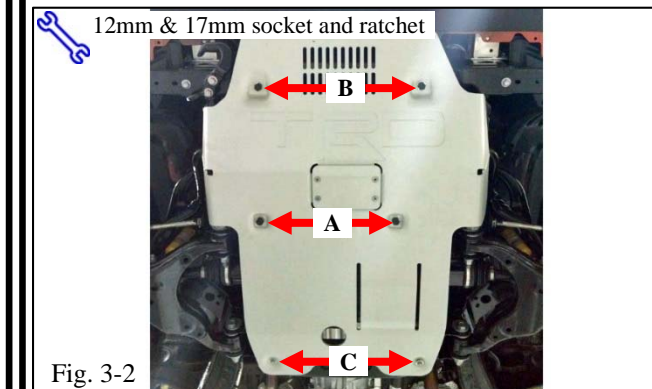
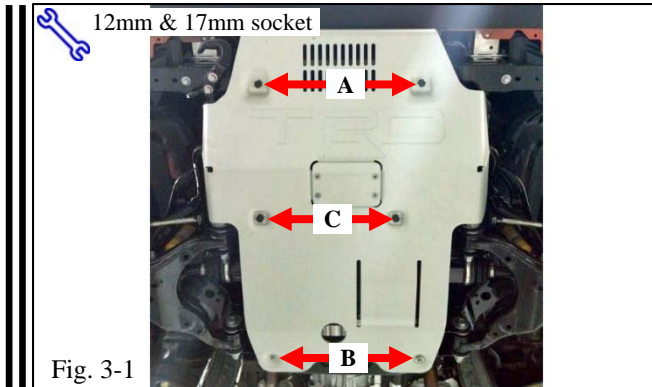
**STOP NOTE:** Do not remove the middle two bolts.

**⚠ CAUTION:** Do not remove the member braces.

### 3. Install TRD Front Skid Plate.

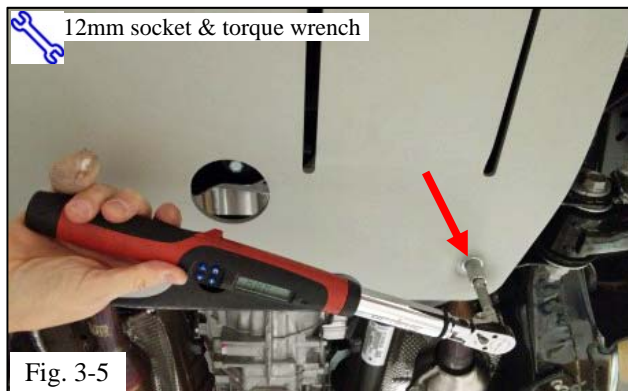
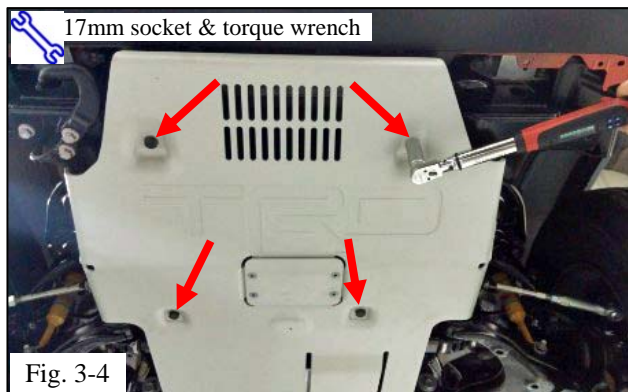
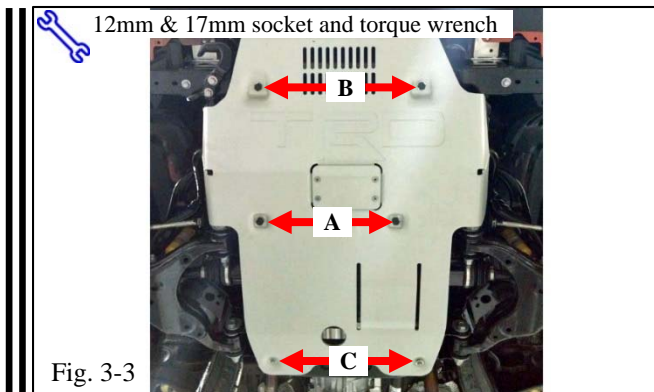
**+** **CAUTION:** Use two people or a lift device to lift the skid plate into position so that its fasteners align with the weld nuts in the frame.

**!** **NOTE:** All of the bolts necessary for installation are pre-installed on the skid plate.



- (a) Use a 17mm hex socket to finger start the front bolts (M12 x 1.25 x 67mm) (A, Fig. 3-1).
- (b) Use a 12mm hex socket to finger start the rear bolts (M8 x 1.25 x 35mm) (B, Fig. 3-1).
- (c) Use a 17mm hex socket to finger start the middle bolts (M12 x 1.25 x 90mm) (C, Fig. 3-1).
- (d) Use a 17mm hex socket to tighten the middle bolts until the spacer contacts the vehicle (A, Fig. 3-2). The final torque will be set in Step 3(g).
- (e) Tighten the front bolts until the spacer contacts the vehicle (B, Fig. 3-2). The final torque will be set in Step 3(h).
- (f) Use a 12mm hex socket to tighten the rear bolts until the skid plate contacts the vehicle cross member (C, Fig. 3-2). The final torque will be set in Step 3(i).

**STOP** **NOTE:** If any binding of the skid plate and fasteners occurs during Steps 3(d) through 3(f), loosen all of the bolts and slightly adjust the position of the skid plate.



(g) Torque the middle bolts to 45 N-m (33 ft-lbf)  
(A, Fig. 3-3 and Fig. 3-4).

**⚠ Torque: 45 N-m (33 ft-lbf)**

(h) Torque the front bolts to 45 N-m (33 ft-lbf)  
(B, Fig. 3-3 and Fig. 3-4).

**⚠ Torque: 45 N-m (33 ft-lbf)**

(i) Torque the rear bolts to 29 N-m (21 ft-lbf)  
(C, Fig. 3-3 and Fig. 3-5).

**⚠ Torque: 29 N-m (21 ft-lbf)**

**4. Place the Customer Care Card.**

(a) Insert the customer care card into the glove box with the existing vehicle owner's manual.

**Dealer Service: Remove and Reinstall the Oil Filter Access Panel.**

**STOP NOTE:** The TRD Skid Plate does not have to be removed to perform an oil and filter change.

**! NOTE:** All Truss head bolts necessary for installation are pre-installed on the skid plate.

(b) Use a 5mm Allen socket to remove the bolts (M8 x 1.25 truss head bolt) and the access panel (A & B, Fig. 1).

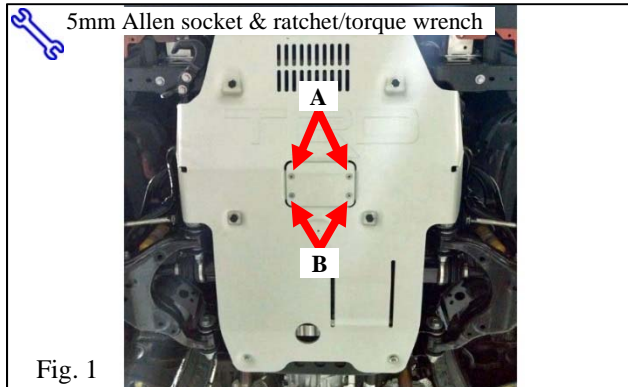


Fig. 1

(c) With the panel removed, remove and replace the oil filter (A) as per the proper oil change procedure (Fig. 2).

(d) After the oil change is complete, use a 5mm Allen socket to reinstall the access panel. Tighten the truss bolts until the access panel contacts the skid plate (A, Fig. 1). The final torque will be set in Step (d).

(e) Torque the bolts to 25 N-m (18 ft-lbf) (A & B, Fig. 1).

**Torque: 25 N-m (18 ft-lbf)**

**STOP NOTE:** If any binding of the access panel and fasteners occurs during Steps (c) through (d), loosen all of the bolts and slightly adjust the position of the access panel.

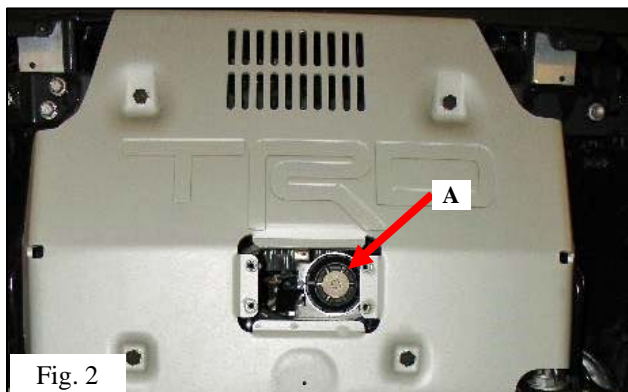


Fig. 2

Check:	Look For:
<p><u>Accessory Function Checks</u></p> <p><input type="checkbox"/> Confirm skid plate fastener torque</p> <p><input type="checkbox"/> If oil filter access panel was removed, confirm fastener torque (5mm Allen socket)</p> <p><input type="checkbox"/> Visual alignment</p> <p><input type="checkbox"/> Customer Care Card</p>	<p><u>Look For:</u></p> <p>Rear bolt (Qty 2) M8 bolt torque 29 N-m (21 ft-lbf)                      Front bolt (Qty 2) M12 bolt torque 45 N-m (33 ft-lbf)                      Middle bolt (Qty 2) M12 bolt torque 45 N-m (33 ft-lbf)</p> <p>Oil filter access panel bolt (Qty 4) M8 x 1.25 truss head bolt torque 25 N-m / 18 ft-lbf</p> <p>Ensure the skid plate is centered front-to-back and side-to-side</p> <p>Inserted in glove box for oil change service reference</p>
<p><u>Vehicle Function Checks</u></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	
<p><u>Vehicle Appearance Check</u></p> <p><input type="checkbox"/> After accessory installation and removal of protective cover(s), perform a visual inspection.</p>	<p>Ensure no damage (including scuffs and scratches) was caused during the installation process.                      (For PPO installations, refer to TMS Accessory Quality Shipping Standard.)</p>