

Preparation

**Part Number: PT228-60240 (LH)  
PT228-60241 (RH)**

**Kit Contents**

Item #	Quantity Req.	Description
1	1	Rock Rail Assembly LH
2	1	Rock Rail Assembly RH
3		

**Hardware Bag Contents**

Item #	Quantity Req.	Description
1	16	M10 hex flange bolt (LH/RH)
2	2	Wire Harness Cover (LH/RH)
3	6	Wire Harness Cover Plugs (LH/RH)
4	2	Cable Ties (LH/RH)

**Additional Items Required For Installation**

Item #	Quantity Req.	Description
1	1	Line protection
2		
3		

**Conflicts**

None
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**Recommended Tools**

<b>Personal &amp; Vehicle Protection</b>	<b>Notes</b>
Safety Glasses	
<b>Special Tools</b>	<b>Notes</b>
None	
<b>Installation Tools</b>	<b>Notes</b>
Low profile ratchet	
14mm socket	
Torque wrench	0-50 lbf-ft
<b>Special Chemicals</b>	<b>Notes</b>

**General Applicability**

MY24 and newer Land Cruiser HV
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**Recommended Sequence of Application**

Item #	Accessory
1	Attach upper front and rear bolts to frame, leave a 15mm gap between bolt head and frame.
2	Two-person - lift and mount rock slider to front and rear bolts
3	Install bolts into 6 remaining holes/slots in rock slider.
4	Torque all fasteners.

\*Mandatory

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

Item #	Quantity Req.	Description
1		
2		
3		

**Legend**

	<b>STOP:</b> Damage to the vehicle may occur. Do not proceed until process has been complied with.
	<b>OPERATOR SAFETY:</b> Use caution to avoid risk of injury.
	<b>CAUTION:</b> 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.
	<b>TOOLS &amp; EQUIPMENT:</b> Used in Figures calls out the specific tools and equipment recommended for this process.
	<b>REVISION MARK:</b> This mark highlights a change in installation with respect to previous issue.
	<b>SAFETY TORQUE:</b> This mark indicates that torque is related to safety.

Procedure

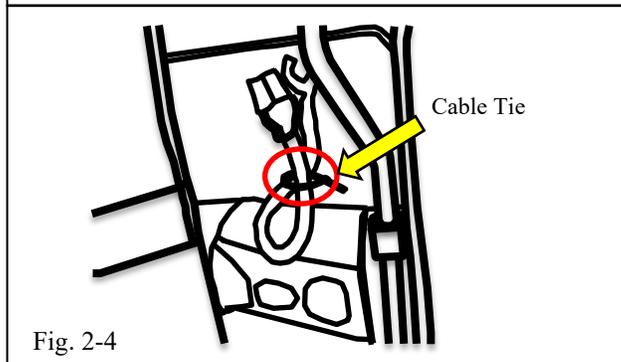
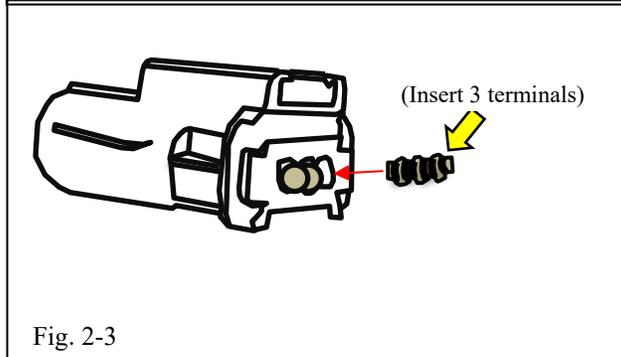
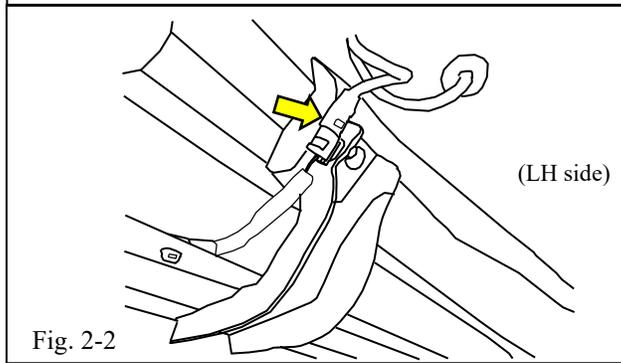
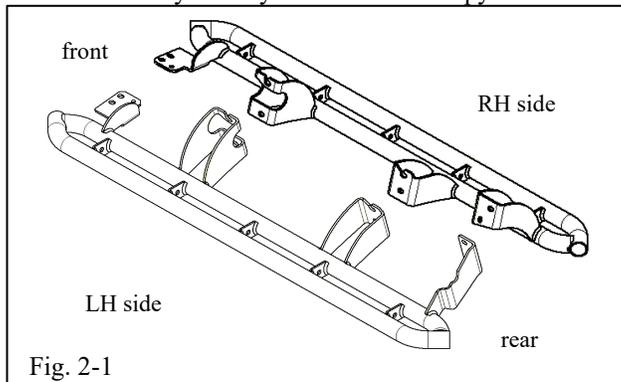
Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

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.

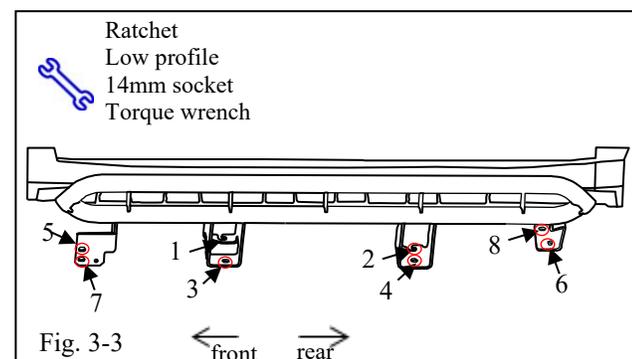
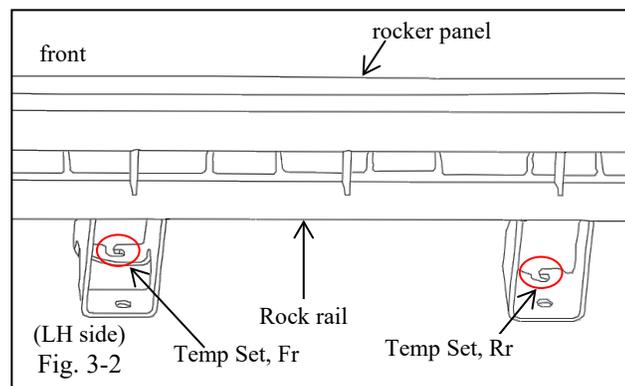
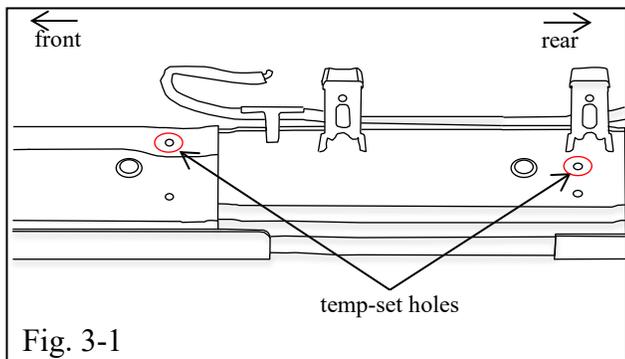


**1. Preparation.**

- +** (a) Parts are heavy. They may require 2 people for lifting and/or installation.
- !** (b) Read the entire instruction sheet before beginning the installation.
- !** **If the vehicle does not have Running Board, skip step 2**

**2. Remove Running Board**

- (a) Instructions for LH rock rail shown. Mirror steps for RH side part. (Fig. 2-1)
- (b) Locate and detach the running board wire harness. (Fig. 2-2)
- (c) Locate and remove running board bolts (6 bolts total).
- (d) Remove running board and reinstall the bolts removed on step 2c (Torque to 30 ± 5 Nm)
- (e) Assemble wire harness cover; locate housing connector and insert the 3x packing terminals Fig 2-3
- (f) Install the wire harness cover on the vehicle end of the wire.
- (g) Secure the wire harness to itself with a cable tie Fig. 2-4



### 3. Install Rock Rail

- (a) Locate the 2 top center frame weld nuts.
- (b) Loosely hand start 2 M10 bolts halfway in the 2 top center weld nuts. (Fig. 3-1)
- (c) Hang the 2 center bracket temp set slots over the 2 bolts.
- (d) Push up and shift rock rail towards the front of the vehicle and temp bolt hole location 3 & 4 (Fig. 3-2).

**STOP CAUTION: HEAVY PART, SLIDING PART MAY CAUSE PART TO FALL**

- (e) Install bolt in positions 7 and 8 (right under temp sets) to prevent rock rail to fall during remaining installation (Fig 3-3)
- (f) Install all remaining bolts.  
Torque all fasteners to 40 Nm (30 ft-lbs) in the order shown. (Fig. 3-3)
- (g) Re-torque all bolts to 40 Nm (30 ft-lbs)

### 4. Repeat

- (a) Repeat all steps for the other side as required.

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> <ul style="list-style-type: none"><li><input type="checkbox"/> Visual Alignment</li><li> <input type="checkbox"/> Torque Check</li><li><input type="checkbox"/></li><li><input type="checkbox"/></li></ul>	<ul style="list-style-type: none"><li><input type="checkbox"/> Ensure Rock rail is level and parallel to vehicle rocker panel.</li></ul>
<p><u>Vehicle Function Checks</u></p> <ul style="list-style-type: none"><li><input type="checkbox"/></li><li><input type="checkbox"/></li></ul>	
<p><u>Vehicle Appearance Check</u></p> <ul style="list-style-type: none"><li><input type="checkbox"/> After accessory installation and removal of protective cover(s), perform a visual inspection.</li></ul>	<p>Ensure no damage (including scuffs and scratches) was caused during the installation process. (For PPO installations, refer to TMNA Accessory Quality Shipping Standard.)</p>