

## 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 |
|------|

### Recommended Tools

| Personal & Vehicle Protection | Notes       |
|-------------------------------|-------------|
| Safety Glasses                |             |
|                               |             |
|                               |             |
| Special Tools                 | Notes       |
| None                          |             |
|                               |             |
|                               |             |
| Installation Tools            | Notes       |
| Low profile ratchet           |             |
| 14mm socket                   |             |
| Torque wrench                 | 0-50 lbf-ft |
|                               |             |
| Special Chemicals             | Notes       |
|                               |             |

### General Applicability

|                                |
|--------------------------------|
| MY24 and newer Land Cruiser HV |
|--------------------------------|

### 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



**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

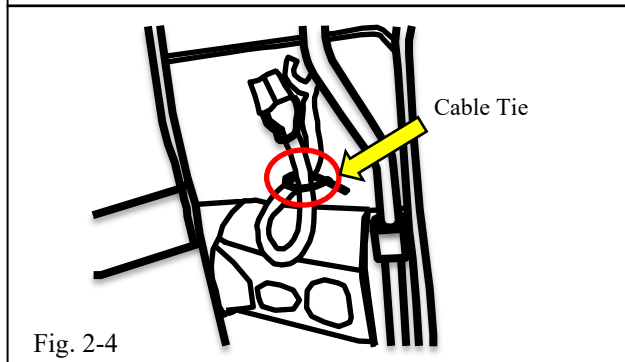
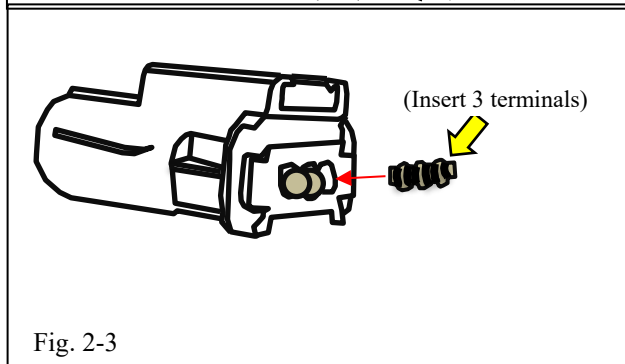
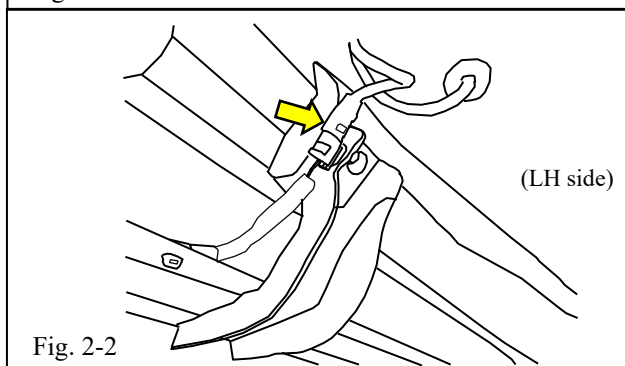
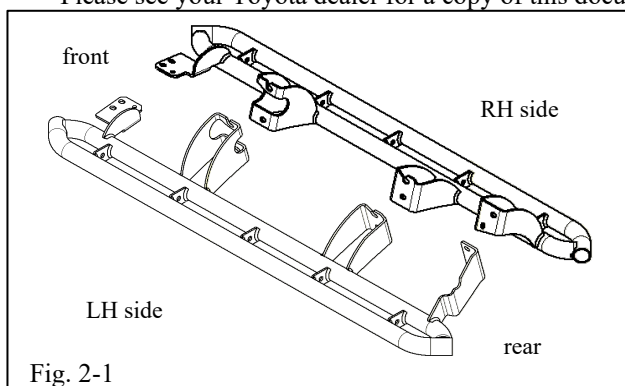
Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

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.



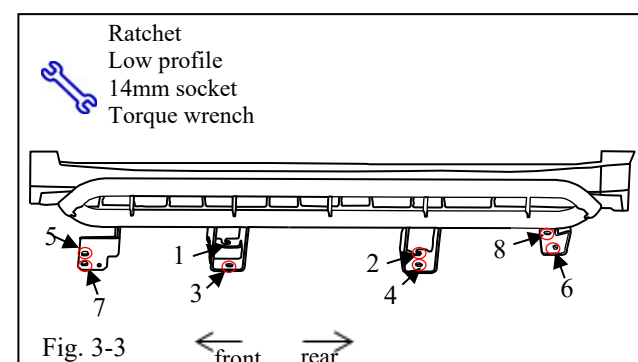
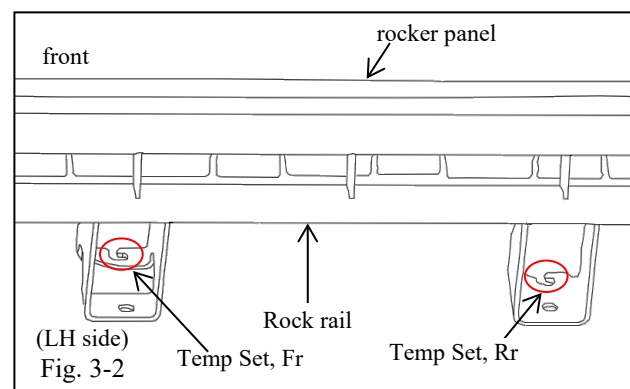
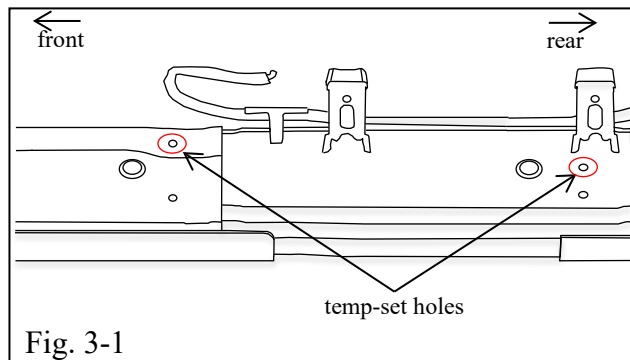
## 1. Preparation.

- ✚ (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  $30 \pm 5$  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

- Locate the 2 top center frame weld nuts.
- Loosely hand start 2 M10 bolts halfway in the 2 top center weld nuts. (Fig. 3-1)
- Hang the 2 center bracket temp set slots over the 2 bolts.
- 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**

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

### 4. Repeat

- 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>   |
|--|--|
| <u>Accessory Function Checks</u><br><br><input type="checkbox"/> Visual Alignment<br> <input type="checkbox"/> Torque Check<br><br><input type="checkbox"/><br><br><input type="checkbox"/> | <br><br><input type="checkbox"/> Ensure Rock rail is level and parallel to vehicle rocker panel.   |
| <u>Vehicle Function Checks</u><br><br><input type="checkbox"/><br><br><input type="checkbox"/>   |  |
| <u>Vehicle Appearance Check</u><br><br><input type="checkbox"/> After accessory installation and removal of protective cover(s), perform a visual inspection.  | <br><br>Ensure no damage (including scuffs and scratches) was caused during the installation process.<br>(For PPO installations, refer to TMNA Accessory Quality Shipping Standard.) |