

Part Number: PT278-89101

Kit Contents

Item #	Quantity Req'd.	Description
1	1	RH Base Rail w/H Blocks
2	1	LH Base Rail w/ H Blocks
3	1	Hardware Bag
4	1	Mini Tie-Down Bag

Hardware Bag Contents

Item #	Quantity Req'd.	Description
1	4	Round Mastic Washers
2	4	Oval Mastic Washers
3	4	Fiber Washers
4	4	Rubber Coated Steel Washers
5	4	M8 Wafer Head Bolts (shorter) with blue thread lock
6	4	M8 Wafer Head Bolts (longer) with green thread lock

Mini Tie-Down Bag Contents

Item #	Quantity Req'd.	Description
1	4	Mini Tie-Downs
2	1	Care Card

Additional Items Required For Installation

Item #	Quantity Req'd.	Description
1	1	OFF-Road Crossbar Kit p/n: PT278-89102

Conflicts

Factory base rails

Recommended Tools

Personal & Vehicle Protection	Notes
Safety Goggles	
Vehicle Protection	
Wrist & Belt Buckle Protectors	
Special Tools	Notes
Installation Tools	Notes
T40 Torx Driver (Hardened)	
Torque Wrench	0-160 lbf-in
10mm Socket	
Ratchet	
3" Extension	
Nylon Panel Removal Tool	i.e.: Panel Pry Tool #1 Toyota SST#00002-06001-01
Special Chemicals	Notes
Cleaner	VDC Approved

NOTE: Part number of this accessory may not be the same as the part number shown.

General Applicability

Trail Model

Recommended Sequence of Application

Item #	Accessory
1	

*Mandatory

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Req'd.	Description
1		
2		
3		
4		
5		
6		

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.

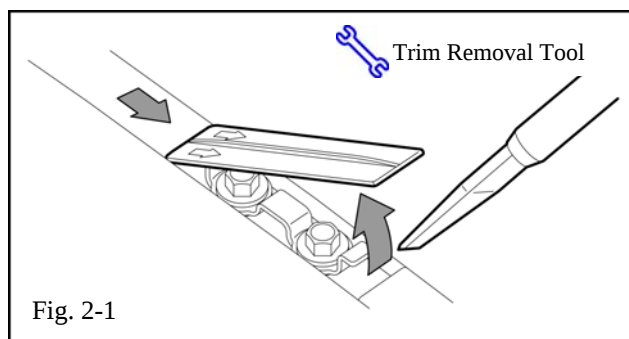
This document covers such items as:-

- 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.

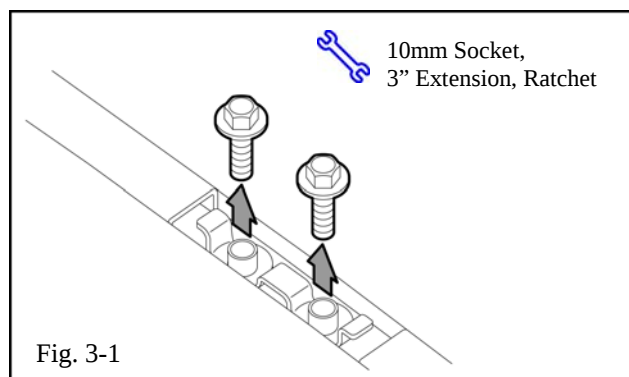
1. Vehicle Preparation.

- (a) Peel and fold back wrap guard and then trim around base rail pad mounting area.
-  (b) Clean work area with approved cleaner and use protective cloth when necessary



2. Remove Access Covers. (4 locations)

-  (a) Push on end with the arrows in the direction of the arrows.
- (b) Lift up on the opposite end while pushing the arrow end. (Fig. 2-1) Use trim removal tool as needed to pry cover up.
- (c) Discard covers.

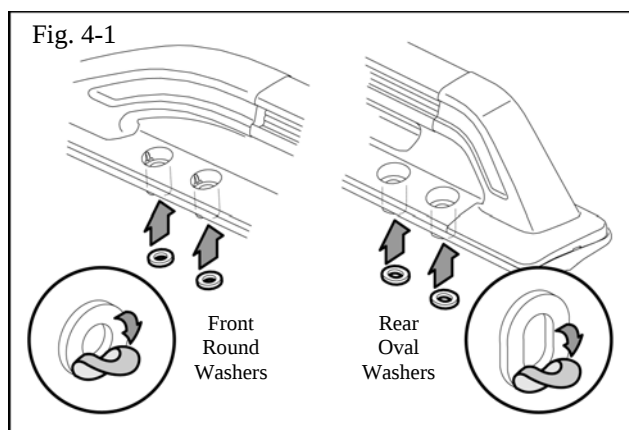


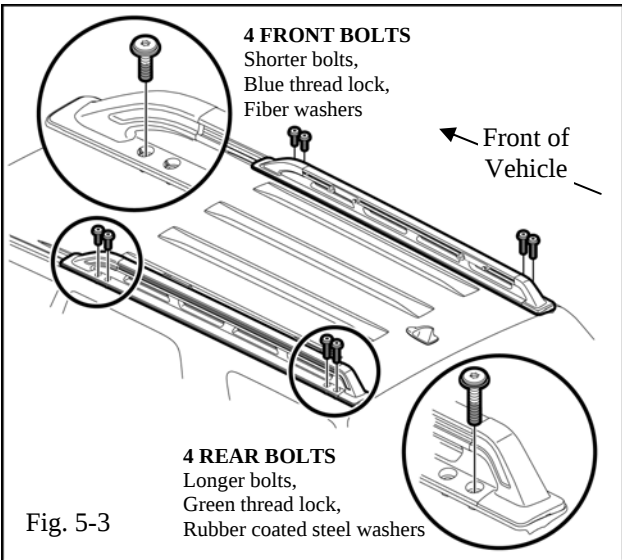
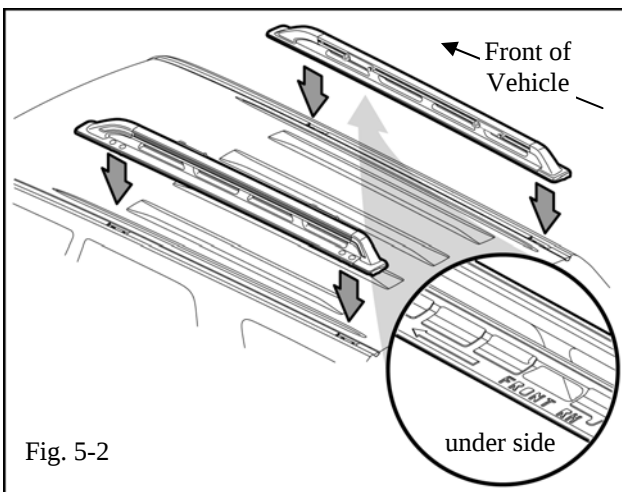
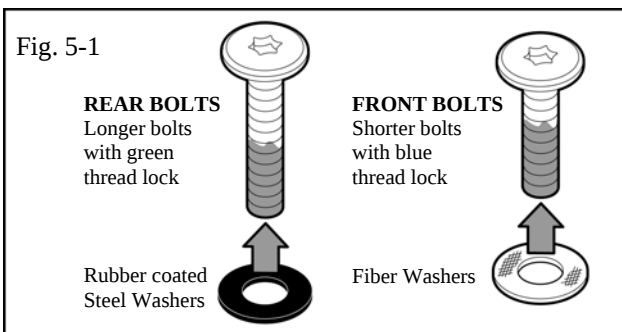
3. Remove Bolts.

- (a) Remove 8 Bolts with rubber washer (4 each side) and discard. (Fig. 3-1)
-  (b) Do NOT remove 4 Brackets (2 each side) from ditch. (Fig. 3-1)

4. Install Mastic Washers.

- (a) Remove adhesive backing and place mastic washers onto the bottom surface of mounting posts (spools) prior to installing to roof. (8 required) (Fig. 4-1)
 - (1) Front spools receive ROUND mastic washers.
 - (2) Rear spools receive OVAL mastic washers.





5. Install Base Rail.



- (a) Insert (qty 4) M8 wafer head bolts (shorter with blue thread lock) into fiber washers. (Fig. 5-1)



- (b) Insert (qty 4) M8 wafer head bolts (longer with green thread lock) into rubber coated steel washers. (Fig. 5-1)



- (c) Carefully place base rails onto the vehicle being sure to line up the front and rear hole locations. If you have to shift the part, be sure to lift the part first so the mastic washers are not dislodged. Ensure the base rails are positioned within the pad lip. (Fig. 5-2)

NOTE: (1) Orientation arrow LH, RH notations are on the bottom of the parts. Ensure there is no wrap guard under the base rail pad.



- (d) Hand start front and rear M8 wafer head screws at all 8 locations. (Fig. 5-3)



- (e) Tighten and torque M8 wafer head screws to 18.0 N.m (160 Lbf-in). (8 required)

6. Go to OFF ROAD crossbar kit p/n PT278-89102 instructions to complete the installation.

7. Mini Tie-Downs.

- (a) Place the mini tie down package in the glove box.

TOYOTA 4RUNNER 2010 - OFF ROAD BASE RAIL

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

<u>Check:</u>	<u>Look For:</u>
<u>Accessory Function Checks</u> ☐ Gap between roof rack side rail pads and vehicle roof surface. ☐ Mini tie down kit	 Not greater than 1.5mm Ensure mini tie down kit is in the glove box.
<u>Vehicle Function Checks</u>	