

Section I – Installation Preparation

Part Number: PT278-35110**Kit Contents**

Item #	Quantity Req'd.	Description
1	1	Rail Assembly RH
2	1	Rail Assembly LH
3	2	Cross Bar Assembly (Short)
4	2	Cross Bar Assembly (Long)
5	1	Joint Assembly
6	1	Hardware Bag

Hardware Bag Contents

Item #	Quantity Req'd.	Description
1	12	Screw, M8x43mm, Wafer Head
2	12	Fiber Washers
3	12	Mastic Washers
4	1	Operator Caution Card
5	8	Thumb Wheel Assembly
6	4	Clamp Assembly RH
7	4	Clamp Assembly LH
8	4	Screw M5x1.81x16, T25

Additional Items Required For Installation

Item #	Quantity Req'd.	Description
1		

Conflicts

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Recommended Tools

Personal & Vehicle Protection	Notes
Safety Goggles	
Vehicle Protection	
Wrist & Belt Buckle Protectors	
Special Tools	Notes
Installation Tools	Notes
T40 Torx Driver (Hardened)	i.e.: WihaTools.com, Snap-on, Mac...
T25 Torx Driver (Hardened)	i.e.: WihaTools.com, Snap-on, Mac...
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

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

General Applicability

All

Recommended Sequence of Application

Item #	Accessory
1	Roof Rack – Can be installed in any sequence with other accessories.

*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.

Section II – Installation Procedure

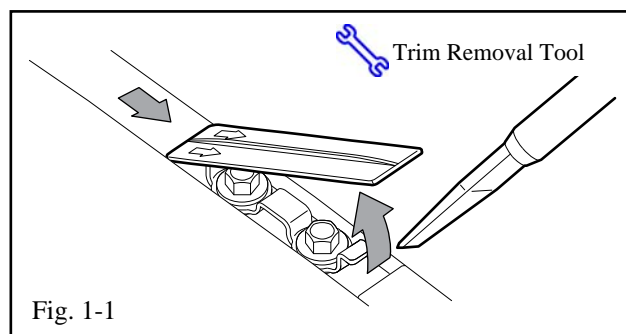
Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

These guidelines can be found in the "Accessory Installation Practices" document.

This document covers such items as:-

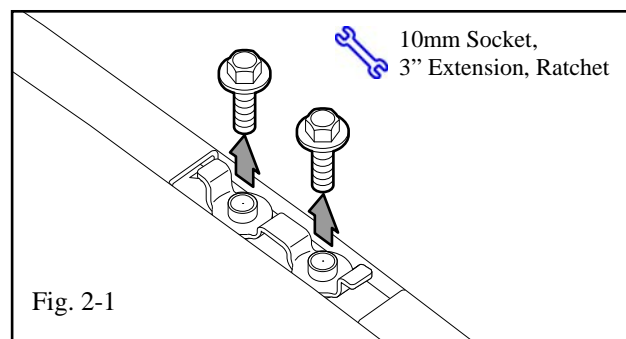
- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.).
- Safety (eye protection, rechecking torque procedure, etc.).
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.).
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.).

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



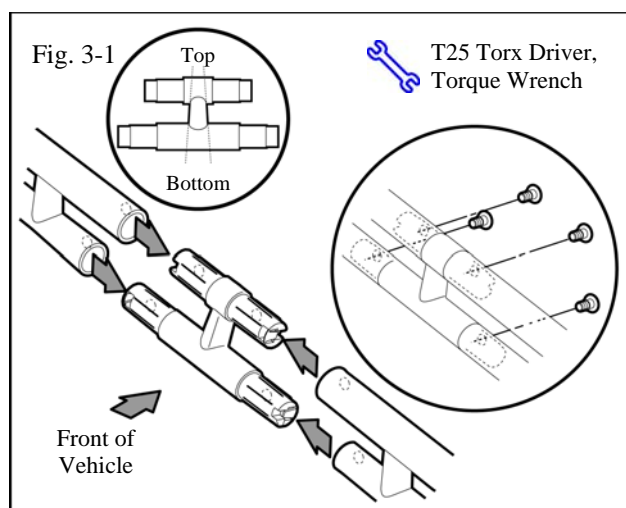
1. Remove Access Covers. (6 locations)

- ⚠ (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. 1-1) Use trim removal tool as needed to pry cover up.



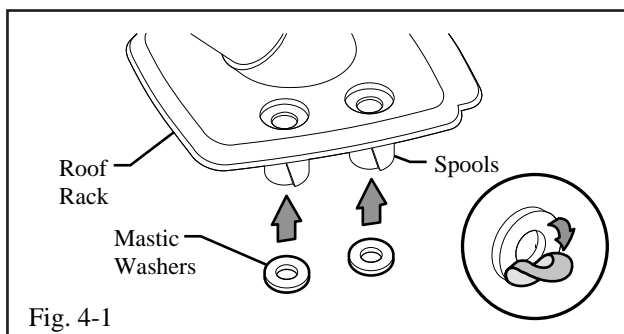
2. Remove Bolts.

- ⚠ (a) Remove 12 Bolts. (6 each side) (Fig. 2-1)



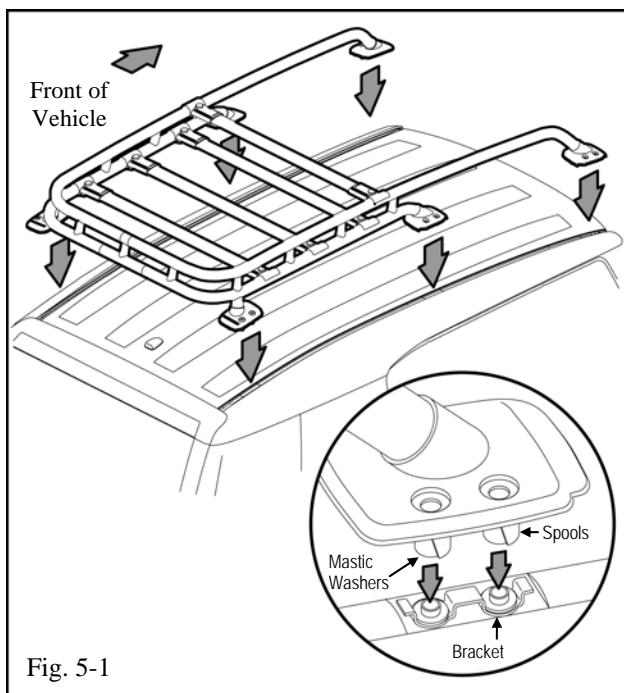
3. Assembly Roof Rack.

- ⚠ (a) Join the LH Rail Assembly and RH Rail Assembly together using the Joint Assembly ("T" shaped connector) and 4 M5x1.18x16 screws. (Figure 3-1)
- ⚠ (1) Note: Orient tapered Joint Assembly ("T" shaped connector) thin at top and wider at bottom. (Figure 3-1)
- ⚠ (b) Torque 4 screws to 4.0+/-1.0 Nm



4. Install Mastic Washers.

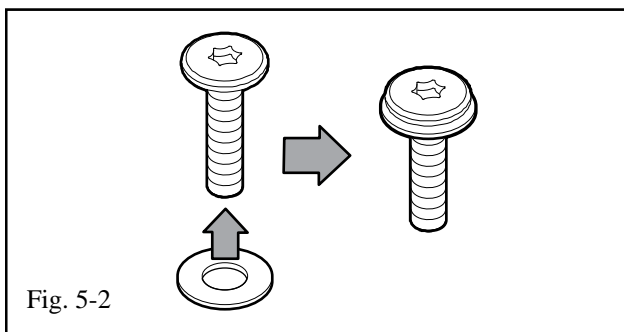
- (a) Remove adhesive backing and place mastic washers onto the bottom surface of mounting posts (spools) prior to installing to roof. (12 required) (Fig. 4-1)



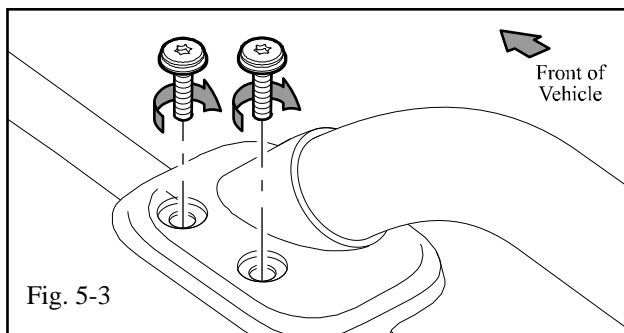
5. Install Roof Rack.



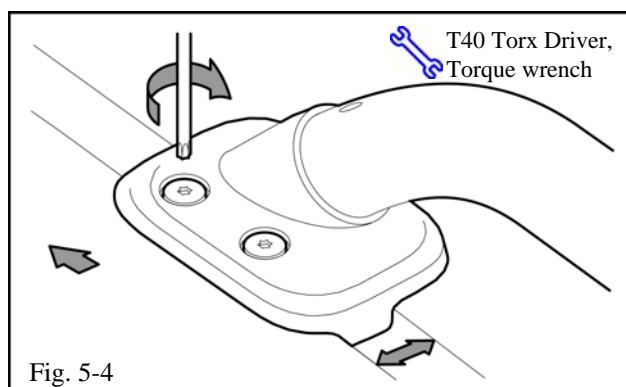
- (a) Using two people, carefully place the roof rack in position on the vehicle as shown. (Fig. 5-1)



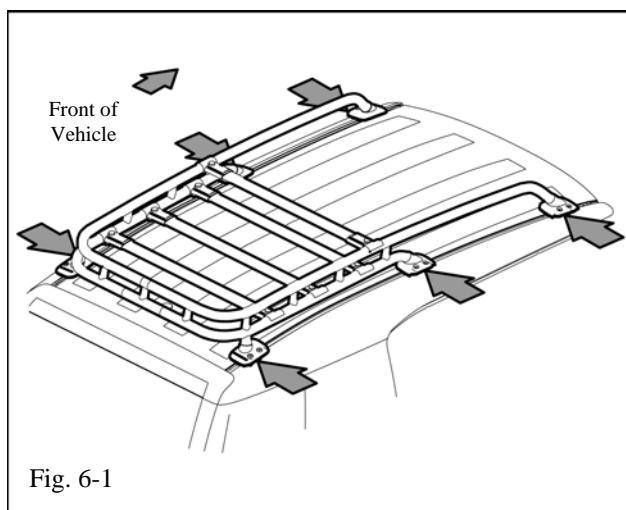
- (b) Insert M8 wafer head screws into fiber washers. (12 required) (Fig. 5-2)



- (c) Hand start M8 wafer head screws at all 12 locations. (Fig. 5-3)



- ⚠ (d) Adjust end support fit to roof ditch mold.
- ⚠ (e) Starting with the center supports, tighten and torque M8 wafer head screws to 18.0 N.m (160 Lbf-in). Next, tighten and torque the front supports. Finally, tighten and torque the rear supports, starting with the forward most screw first. (12 required) (Fig. 5-4)

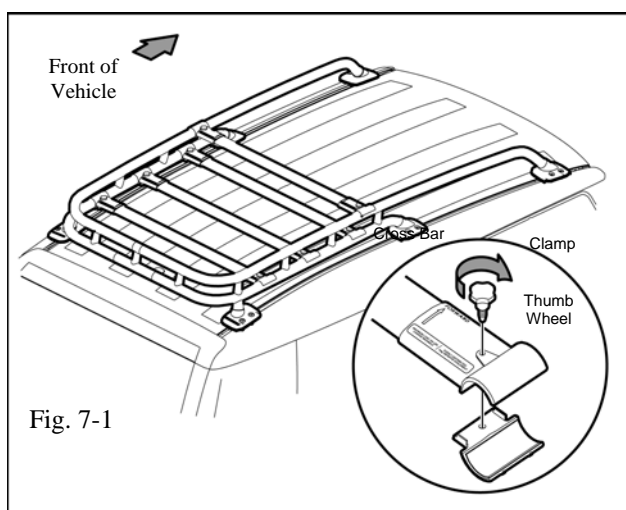


6. Verify Support Installation.

- ⚠ (a) Verify all supports are snug and properly fitted to roof ditch mold. (Fig. 6-1)

7. Install Cross Bars.

- ⚠ (a) Place cross bars into position. (Fig. 7-1)
 - (1) Note “Forward” arrow for front of vehicle orientation.
 - (2) Note: **Short cross bars** are to be installed toward the front and rear of the vehicle. The **Long cross bars** are in the middle.
- ⚠ (b) Place lower clamp under cross bar then tighten thumb wheels by turning clockwise until tight.
 - (1) Note: Make sure lower clamp is on correct side (LH or RH). They will not fit properly if on wrong side of vehicle.



8. Operator Caution Card Placement.

- ⛔ (a) Place the operator caution card with the owner’s manual in the vehicle glove box.

TOYOTA FJ CRUISER 2007- DIO ROOF RACK

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

<u>Check:</u>	<u>Look For:</u>
<u>Accessory Function Checks</u> <input type="checkbox"/> Crossbar should be securely locked into rails for shipment. <input type="checkbox"/> Gap between roof rack side rail pads and vehicle roof surface.	 Ensure crossbars are secure. Tighten if necessary. Not greater than 1.5mm
<u>Vehicle Function Checks</u> <input type="checkbox"/> Caution Card Placement with owner's manual.	 Ensure Caution Card is placed with the owner's manual in the vehicle glove box.