

Part Number: PT278-08170

Kit Contents

Item #	Quantity Req.	Description
1	2	Crossbar Assembly
2	1	Hardware Bag
3		

Hardware Bag Contents

Item #	Quantity Req.	Description
1	1	User's Guide
2	2	Load Capacity Label w/ White Lettering
3		

Additional Items Required For Installation

Item #	Quantity Req.	Description
1		
2		
3		

Conflicts

None

Recommended Tools

Personal & Vehicle Protection	Notes
Vehicle Protection	Cloth
Special Tools	Notes
Installation Tools	Notes
Measuring Tape	3 ft. minimum
Torque Wrench	0-75 in-lbf (8.5 N-m)
Special Chemicals	Notes
Cleaner	VDC approved cleaner

General Applicability

2011 and newer vehicles with factory roof rack base rails

Recommended Sequence of Application

Item #	Accessory
1	
2	
3	

*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. Clean the Work Area.

-  (a) Saturate a clean lint-free cloth with VDC approved cleaner and clean both roof rails including the rear covers. Follow the solvent manufacturer's directions carefully.

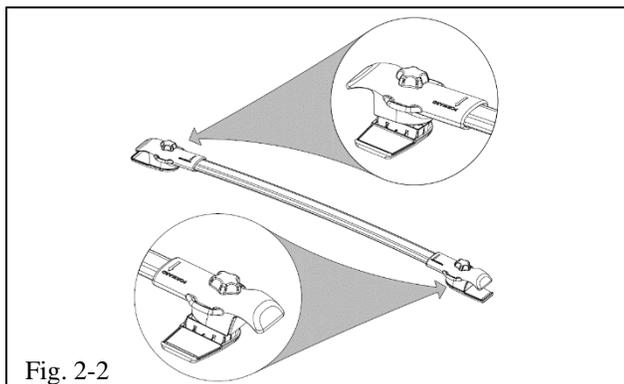
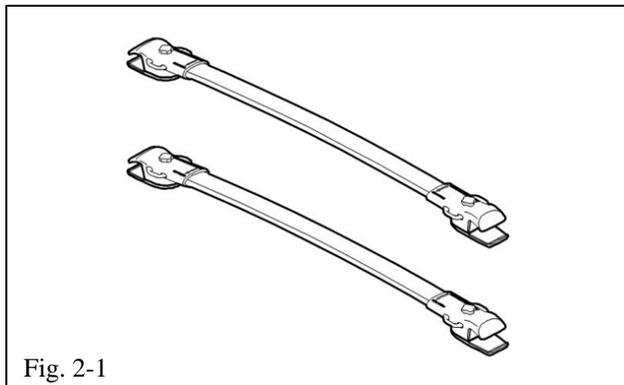
 **NOTE:** Do not allow the cleaner to air dry.

- (b) Wipe the cleaned surface with a clean, dry, lint-free cloth.

2. Install the Crossbars.

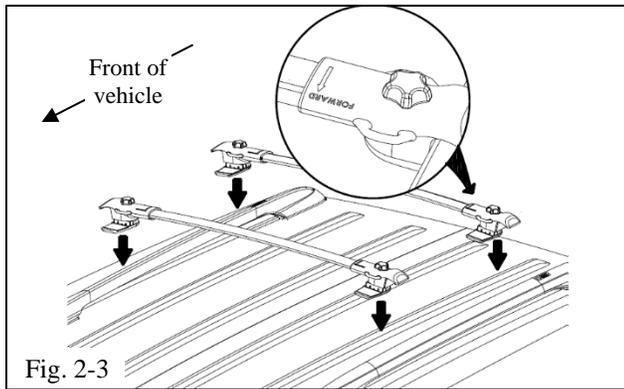
-  (a) Remove the crossbars and the hardware bag from the packaging (Fig. 2-1).

 **NOTE:** Retain the hardware bag for reuse.



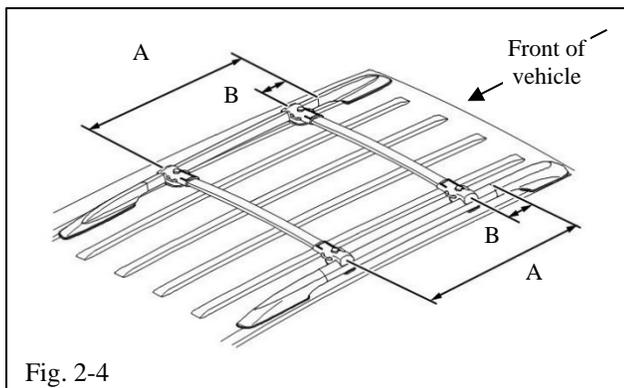
- (b) Loosen the clamps by turning the knobs counterclockwise until the lower clamp can be moved from inside of the upper clamp pocket (Fig. 2-2).

-  (c) Rotate the lower clamp 90° to allow the crossbars to be lowered between the roof rails (Fig. 2-2).



⚠ (d) Lower the crossbars between the roof rails (Fig. 2-3).

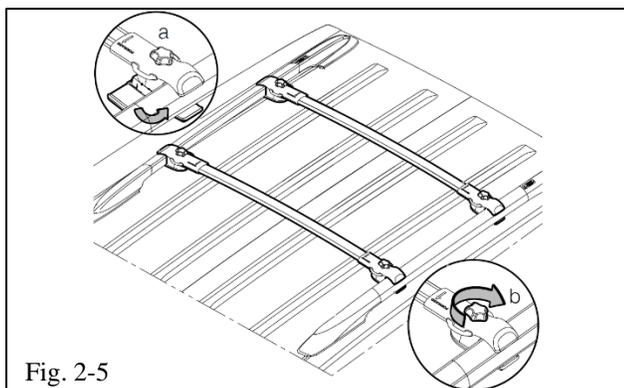
⚠ **NOTE:** The front and rear crossbars are interchangeable. Place the “FORWARD” arrow on the clamp pointing towards the front of the vehicle.



⚠ (e) Position the front and rear crossbars so that they are parallel (Fig. 2-4).

(1) A = 820mm (32-1/4 in) from the end of the rail.

(2) B = 120mm (4-3/4in) from the end of the rail.



(f) Once in position, rotate the lower clamps under the side rails (Fig. 2-5).

(g) Tighten the clamps by turning the knobs clockwise until they are secure (Fig. 2-5).

⚠ **NOTE:**

- Ensure no gap exists between the end support and the side rail on the vertical surface, both left and right side (Fig. 2-6).
- To avoid injury or damage, periodically verify that the crossbars are secure and observe load limits as printed on the crossbars (Fig. 2-6).



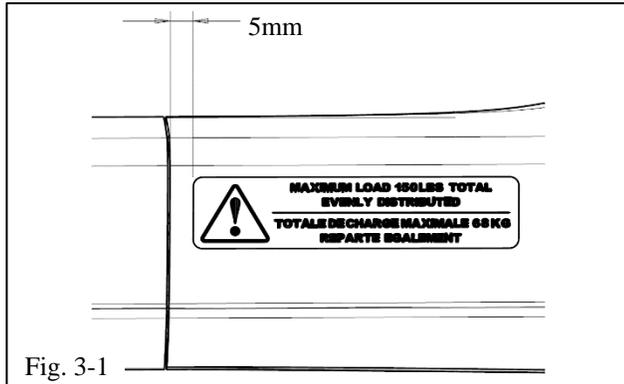


Fig. 3-1

3. Install the Load Labels.

- (a) Carefully open the hardware bag and remove the load labels from the hardware bag (Fig. 3-1).
- (b) Remove the protective backing from one of the load labels.
- (c) Orient the load label so that the text is legible.
- (d) Place the load label on the rear cover, 5mm from the end of the side rail.
- (e) Firmly adhere the load label by applying pressure from one end to the opposite end of the load label.
- (f) Repeat Steps 3(b) through 3(e) on the opposite roof rail.

4. Finish the Installation.

-  (a) Place the crossbar owner's manual inside the hardware bag.
- (b) Place the hardware bag with contents into the vehicle's glove box.

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"><input type="checkbox"/> Ensure the crossbars are secure and in the correct position<input type="checkbox"/> End support gap<input type="checkbox"/> Hardware bag with user manual<input type="checkbox"/> Load Label	<p>Securely tightened knobs.</p> <p>No gap between the end support and side rail on the vertical surface</p> <p>Hardware bag with user manual are in the glove box compartment</p> <p>Ensure the load labels are installed on the rail and legible (both sides).</p>
<p><u>Vehicle Function Checks</u></p> <ul style="list-style-type: none"><input type="checkbox"/>	
<p><u>Vehicle Appearance Check</u></p> <ul style="list-style-type: none"><input type="checkbox"/> After accessory installation and removal of protective cover(s), perform a visual inspection.	<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>