CROSS BARS

Part Number: PT278-89170

Kit Contents

Item#	Quantity Reqd.	Description
1	1	Front Crossbar Assembly
2	1	Rear Crossbar Assembly
3	1	Hardware Bag

Hardware Bag Contents

Item#	Quantity Reqd.	Description
1	2	Rubber Stopper
2	4	M6 Wafer Head Screw
3	2	Load Label, 60kg
4	1	User Manual

Additional Items Required For Installation

Item#	Quantity Reqd.	Description
1		
2		
3		

Conflicts

Recommended Tools

Personal & Vehicle	Notes	
Protection		
Safety Goggles		
Blankets		
Wrist & Belt Buckle		
Protectors		
Special Tools	Notes	
Installation Tools	Notes	
Nylon Panel Removal Tool		
T30 Torx Head Screwdriver		
T30 Torx Head Socket		
Torque Wrench		
Tape Measure		
Special Chemicals	Notes	•

General Applicability

	All Base and	Limited Models	with Side Rails
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Recommended Sequence of Application

Item#	Accessory
1	
2	
3	

*Mandatory

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Reqd.	Description
1	1	User Manual
		P/N: PT278-89170-AAS
2	2	Thumbscrew
		P/N: PT278-89150-TS
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

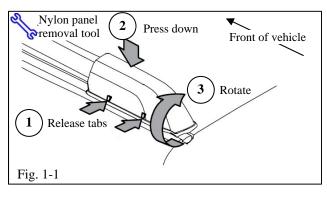
Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

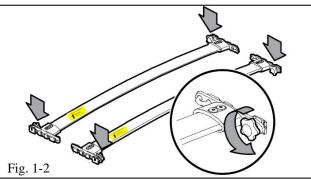
These guidelines can be found in the "Accessory Installation Practices" document.

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.





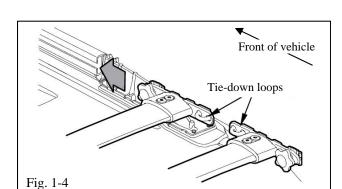


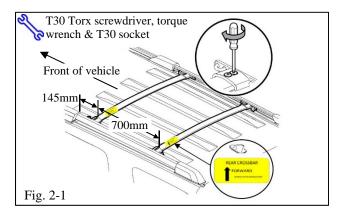
1. Install the Cross Bar.

- (a) Carefully remove the rear rail covers (Fig. 1-1).
 - (1) Use a nylon panel removal tool to pry the cover outward at the tabs.
 - (2) Press down on the inward side and rotate the cover.
 - (3) Keep the covers for reinstallation.
- (b) Loosen the knobs (4x) on each cross bar joint (Fig. 1-2).

(c) Remove the shipping tape located on top of the wafer head screws (4x) (Fig. 1-3).

Procedure





(d) Slide the cross bars into the rails with the tiedown loops toward the center of the vehicle (Fig. 1-4).

NOTE: The cross bar ends are labeled LF (left front), RF (right front), LR (left rear) and RR (right rear) for reference.

2. Position the Cross Bars.

- (a) Position the front and rear cross bars so they are parallel.
- (b) Place the front cross bar 145mm (5.7 inches) from the back of the front cover to the cross bar center (Fig. 2-1).
- (c) Place the rear cross bar 700mm (27.6 inches) from the front cross bar center to the rear cross bar center (Fig. 2-1).
- (d) Securely tighten the knobs.

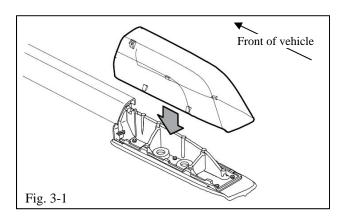


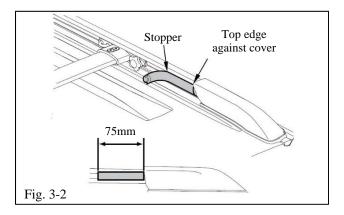
(e) Tighten the LH and RH side M6 wafer head screws to 1.7 N-m (15 in-lbf).

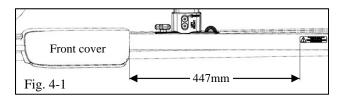
Torque: 1.7 N-m (15 in-lbf)



(f) Remove and discard the front and rear yellow cross bar position labels (Fig. 2-1).







3. Install the Rear Covers & Stoppers.

(a) Replace the rear covers removed in Step 1(a) (Fig. 3-1).



- (1) Align the rear cover clips with the slots on the base rail.
 - (2) Press down until the cover snaps into position.

NOTE: Confirm the covers are installed securely.

- (b) Carefully open the hardware bag and remove Stoppers from the hardware bag.
- (c) Press the stopper into the groove of the side rail on both sides of the vehicle (Fig. 3-2).

4. Install the Load Labels.

- (a) Remove a load label from the hardware bag.
- (b) Remove the load label protective backing.
- (c) Orient the load label so that the text is legible.
- (d) Place it on the top, center of the roof rail, 447mm (17.6 inches) from the front cover (Fig. 4-1).
- (e) Apply pressure from one end of the load label to the opposite end to firmly secure the load label.
- (f) Repeat Step 4 on the other side.

5. Complete the Installation.

(a) Place the hardware bag with the user manual in the glove compartment.

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

Check:	Look For:
Accessory Function Checks	
Cross bars are secure & in correct position	Knobs are tight, front cross bar center at
	145mm (5.7") from front cover & 700mm
	(27.6") between cross bar centers
Cross bars are not bound	Cross bars slide freely
Rear covers securely attached	Cover clips are fully engaged
Hardware bag with user manual	Stored in the glove compartment
Vehicle Function Checks	
Vehicle Appearance Check	
After accessory installation and removal of protective cover(s), perform a visual inspection.	Ensure no damage (including scuffs and scratches) was caused during the installation process. (For PPO installations, refer to TMS Accessory Quality Shipping Standard.)