

Part Number: PT278-0T09P

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

Kit Contents

Item #	Quantity Req'd.	Description
1	2	Roof Rail Assembly
2	2	Roof Rail Cover
3	1	Hardware Bag (see content below)
4	1	Cross Bar Kit (see content below)

Hardware Bag Contents

Item #	Quantity Req'd.	Description
1	1	Instructions
2	10	Rail Mounting Bolts T-30
3	10	Mastic Washers

Cross Bar Kit Contents

Item #	Quantity Req'd.	Description
1	1	Cross Bar Assembly FRT
2	1	Cross Bar Assembly RR
3	1	Cross Bar Hardware Bag

Cross Bar Hardware Bag Contents

Item #	Quantity Req'd.	Description
1	8	Screw M5x0.8x19.0 T-25

Additional Items Required For Installation

Item #	Quantity Req'd.	Description
1		

Conflicts

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Recommended Tools

Personal & Vehicle Protection	Notes
Safety Glasses	
Protective Cloth	
Special Tools	Notes
X-Acto Knife, Deburring tool or equivalent	
Hand Roller	Hard Rubber or Wood Hand Roller, 1"
Installation Tools	Notes
T-30 Torx Driver	
T-25 Torx Driver	
Nylon Panel Removal Tool	i.e.: Panel Pry Tool #1 Toyota SST#00002-06001-01
Torque Wrench	0-150 Lbf-in.
Tape Measure	
Shears	
Rubber Mallet	
Special Chemicals	Notes
Cleaner	

General Applicability

All Non-Panoramic Roof Models.

Recommended Sequence of Application

Item #	Accessory
1	

*Mandatory

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Req'd.	Description
1		

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.

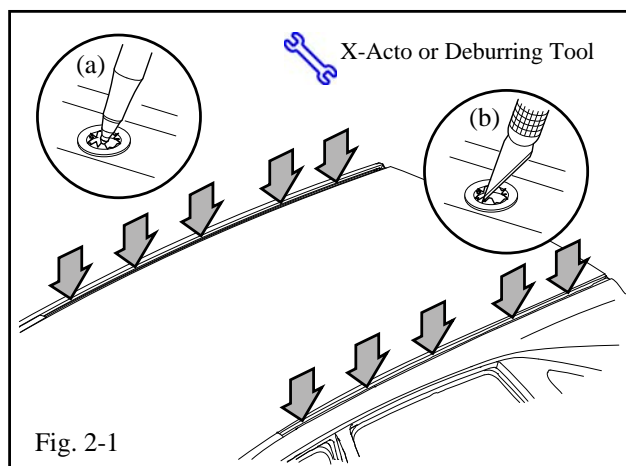
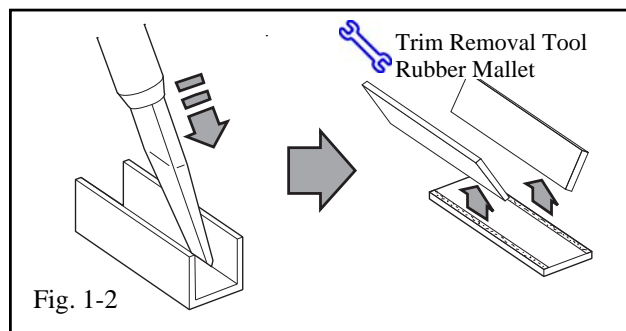
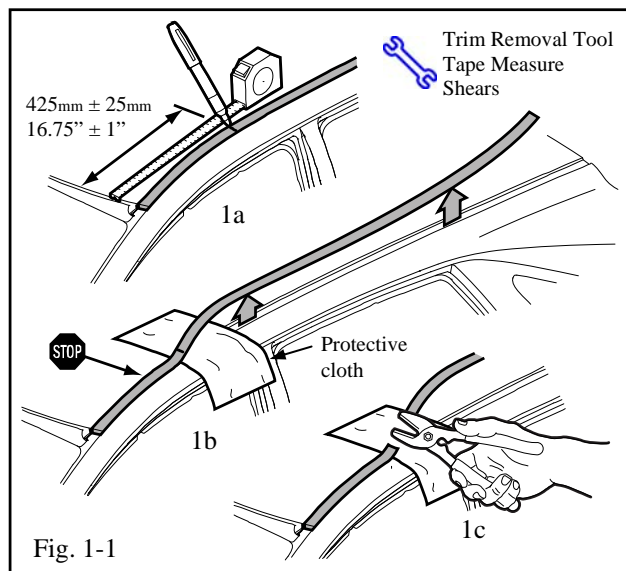
These guidelines can be found in the "Accessory Installation Practices" document.

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.

NOTE: FOR INSTALLATION OF CROSS BARS ONLY, GO TO STEP 7 (Page 4)

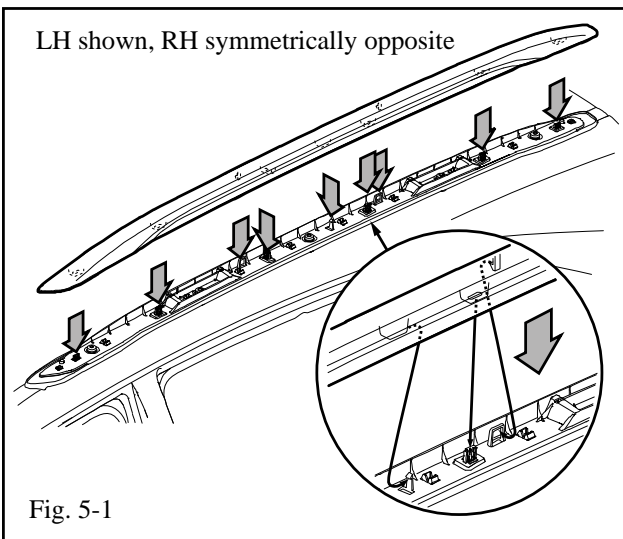
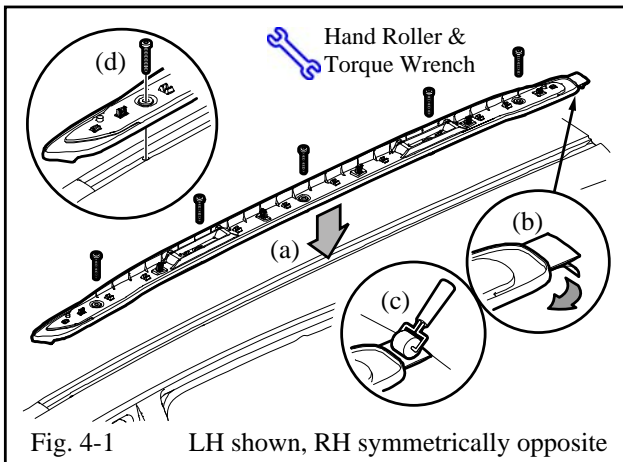
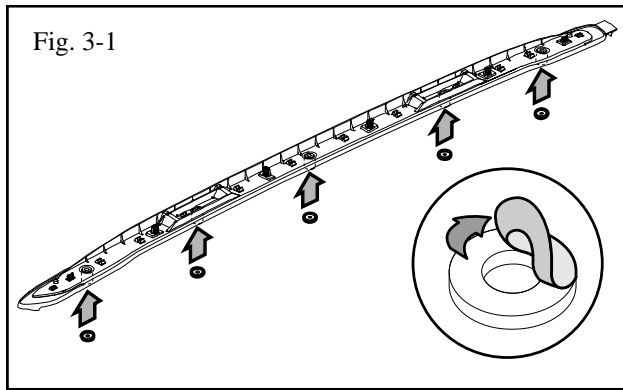


1. Vehicle Preparation.

- (a) Using tape measure, measure rearward from front window lace 425mm ± 25mm (16¾" ± 1") and mark the factory ditch mold for cutting. (Fig. 1-1a)
- (b) Carefully lift ditch molding, starting at the rear to just beyond the cut line. **Do not remove molding totally from front ditch & clip.** Place a protective cloth. (Fig. 1-1b)
- (c) Using shears, cut ditch mold. (Fig. 1-1c)
- (d) Carefully remove any remaining tape residue from rear of ditch.
- (e) Using trim removal tool and rubber mallet, break off vertical walls of **rear ditch clips** (RH & LH). Wedge trim removal tool in from outside then give it a sharp blow with the rubber mallet. This should cause wall to break. Repeat for both sides. (Fig. 1-2)
- (f) Clean work area before installing rails
 - (1) Saturate a clean lint-free cloth with approved cleaner and clean the work surface of the vehicle. Follow the solvent manufacturer's directions carefully. Do not allow cleaner to air dry.
 - (2) Wipe the clean surface with a clean, dry, lint-free cloth.

2. Prepare Roof for Rack Installation (Fig. 2-1)

- (a) Puncture tape that covers the 10 weldnuts (5 RH & 5 LH) with a ball point pen.
- + (b) Using an X-Acto knife or de-burring tool, carefully remove all seal material so that the weld nut is visible and no seal material is down near the threads.



3. Install Mastic Washers (Fig. 3-1)

- (a) Remove tape backing from the adhesive backed washers and install to bottom of side rail base (5 places each side).

4. Secure Rails to Roof (Fig. 4-1)

- (a) Fit rail into ditch above hole positions and hand start 5 T-30 mounting screws per rail.
- (b) Remove tape backing from rear ditch molding.
- (c) Using the hand roller, roll around the rear ditch molding with at least 15lbs (7kg) of pressure to ensure complete adhesion of tape to vehicle.
- (d) Using the T-30 torque wrench, torque bolts to 13.0 – 13.6 Nm (115 - 120 Lbf.-in.)

5. Install Covers (Fig. 5-1)

- (a) Align cover over clips on side rails. Starting with the front and rear ends located inside the pad lip, press down onto rail to engage the clips closest to the ends. Then, move toward the center of the cover pressing down on all clips until they are fully engaged (9 places per side).



NOTE: Verify clip orientation to rail cover before installation. RH & LH sides are different.



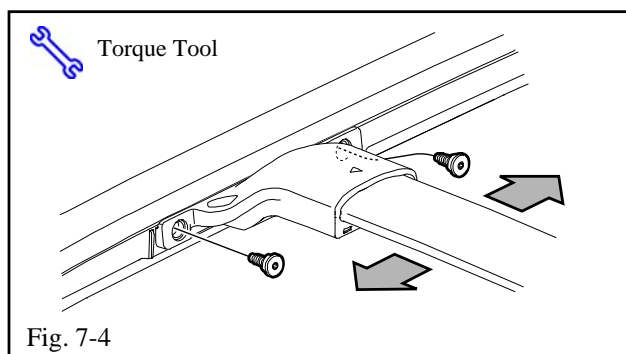
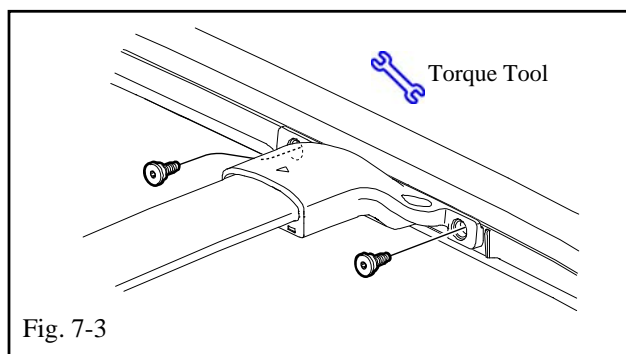
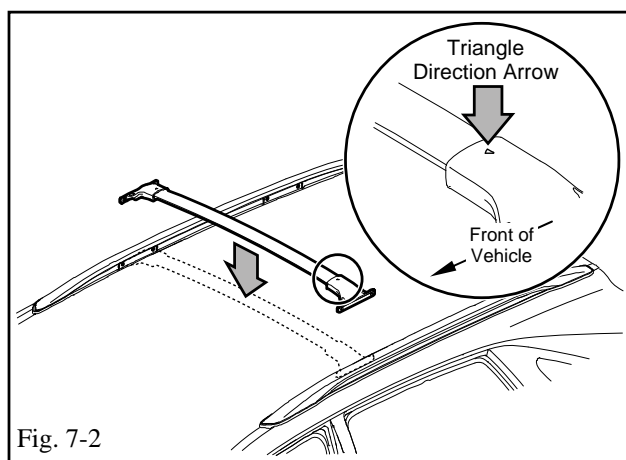
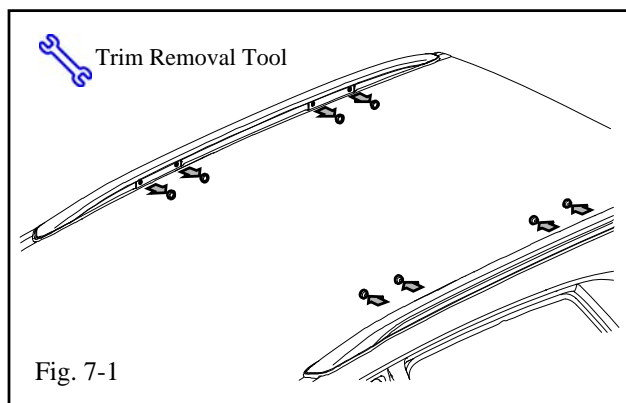
6. If Crossbars are being installed at this time, proceed to STEP 7, if NOT then:




- (a) Place the crossbar kit box inside the cargo area.




- (b) Place installation instructions in the glove box.







7. Install Cross Bars

-  (a) Remove plugs from 4 inboard locations on each side rail. (Fig. 7-1)
- (b) Place front crossbar on roof between side rails. Locate installation point using ribs on inboard of side rail.
- Note: triangles point toward front of vehicle (Fig. 7-2)**
- (c) Install 2 M5 screws to secure LH side to rail. (Fig. 7-3)
- (d) Adjust RH side and install two M5 screws to fasten to rail. (Fig. 7-4)
- (e) Repeat (b) thru (d) for Rear Cross Bar

-  (f) Torque all M5 screws to 8.0 Nm (71 Lbf.-in.)
- Note: Place a towel under the tightening tool to prevent any damage to the painted surface.**

8. Complete Installation

-  (a) Verify that cross bars and roof rails are secure.
-  (b) Place the installation instructions inside the glove box.
-  (c) **Owner should periodically verify screws are tight to the specified torque when crossbars are installed.**
-  (d) **After 5 installations, crossbar screws should be replaced to ensure proper torque retention. Contact your dealer to order replacement hardware (Part Number: PT278-0T090-HW).**

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

Check:

Look For:

Accessory Function Checks

- ☐ Side rails should be secure
- ☐ Covers should be secure
- ☐ Cross bars should be secure
- ☐ Gap between roof rack side rail pads and vehicle roof surface
- ☐ Gap between ditch molding and side rail pad front lip (frontal area)

Torque 13.0 – 13.6 Nm (115 - 120 Lbf.-in.)

Gaps between cover and rail pads and cover looseness

Torque 8.0 Nm (71 Lbf.-in.).

Not greater than 1.5 mm

Not Greater than 2.5 mm

Vehicle Function Checks

- ☐ None Required