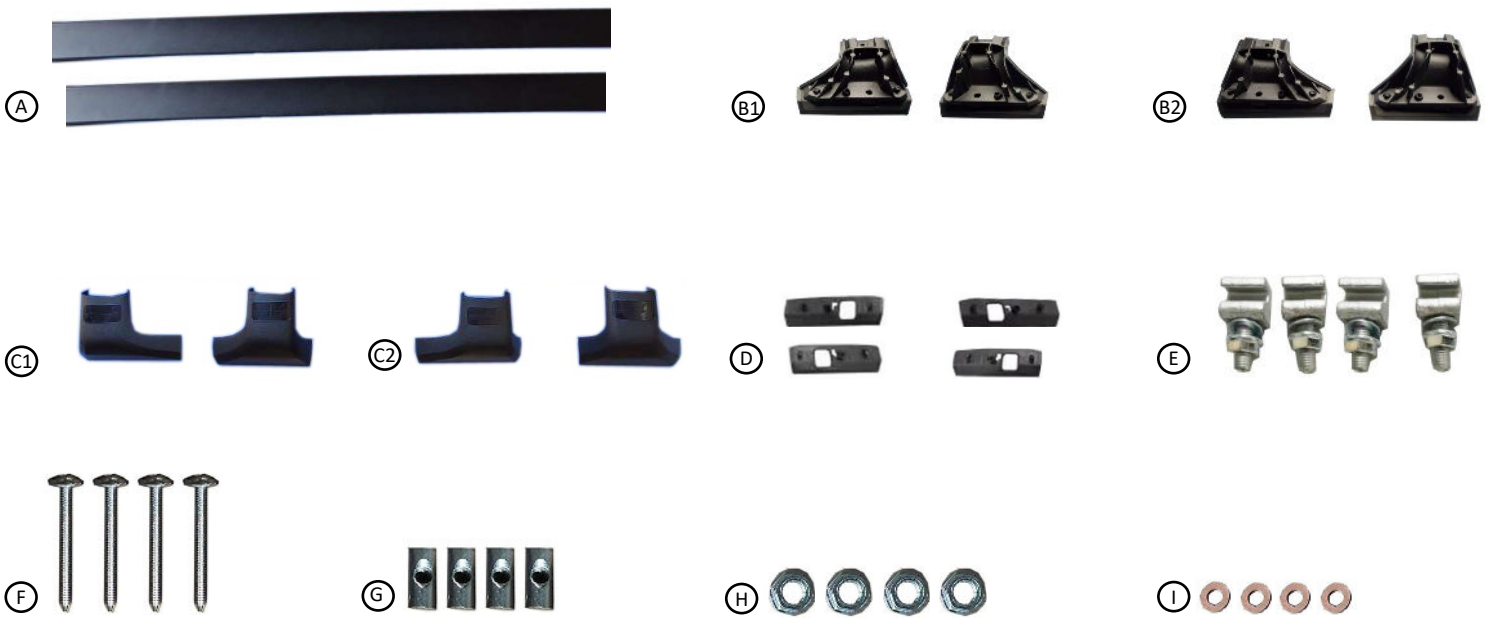
ROOF RAIL CROSSBARS INSTALLATION GUIDE

For Toyota Highlander L & LE without Roof Rails

SPECIFICATION

Model year:	Fits Fourth Generation Toyota Highlander 2020-2023 L, LE, and Hybrid Trims.
Maximum load capacity:	73KGs/165LBs in total, evenly distributed
⚠	Refer to the car user manual for the recommended limitation from the factory.

PART LIST

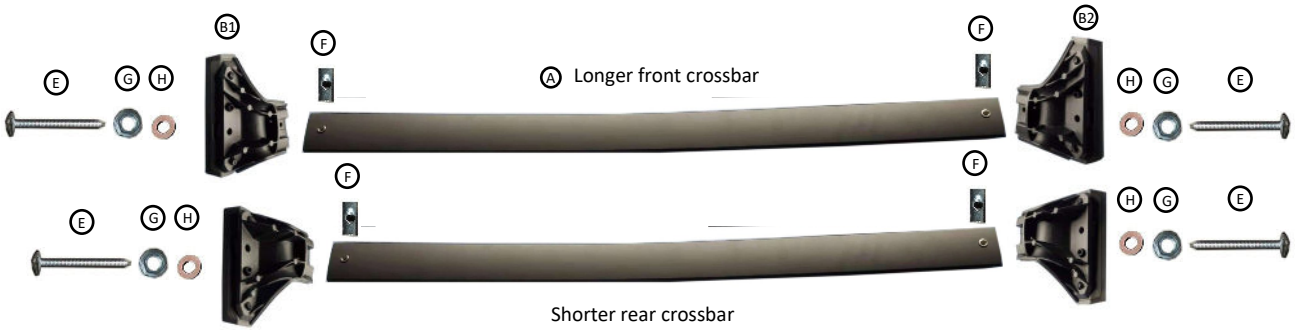


TOOLS INCLUDED

M4 Torx

PART INDEX	DESCRIPTION	QTY.
A	Aluminum bars (longer @ front and shorter @ rear)	2
B1	Left/Driver Brackets (LF, LR)	2
B2	Right/Passenger Brackets (RF, RR)	2
C1	Left/Driver Covers (LF, LR)	2
C2	Left/Driver Covers (LF, LR)	2
D	Bracket Pads (LHF, RHF, LHR, RHR)	4
E	J-Bolts with bolts and lock washers	4
F	M6x50mm Bolts	4
G	Cylindrical Nuts	4
H	M8X16mm Nuts	4
I	washers	4

1 ASSEMBLY



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.

2 INSTALLATION

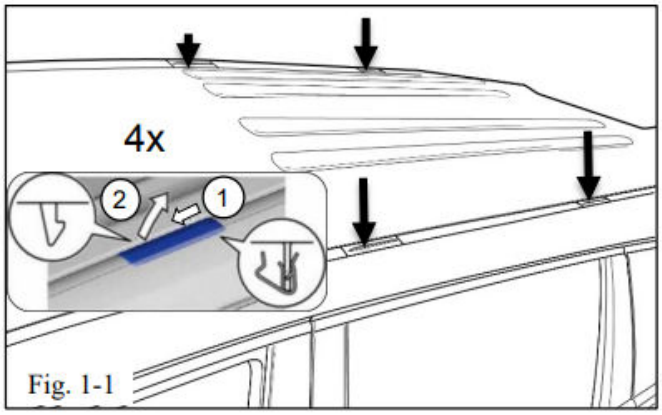


Fig. 1-1

1. Remove the Covers

NOTE: Cover the vehicle roof with a protective covering to prevent scratching vehicle roof.

(a) Locate 4 covers in the ditch molding on the roof of the vehicle (Fig. 1-1).
(b) Remove four (4) covers by sliding the cap in the direction of the double arrows and lifting up the opposite end. Save them in the storage bag in the kit.

NOTE: Check and ensure spring clip remains on the cover

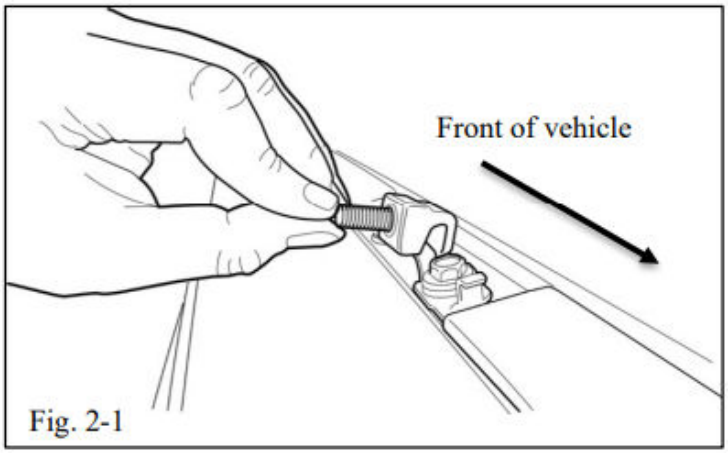


Fig. 2-1

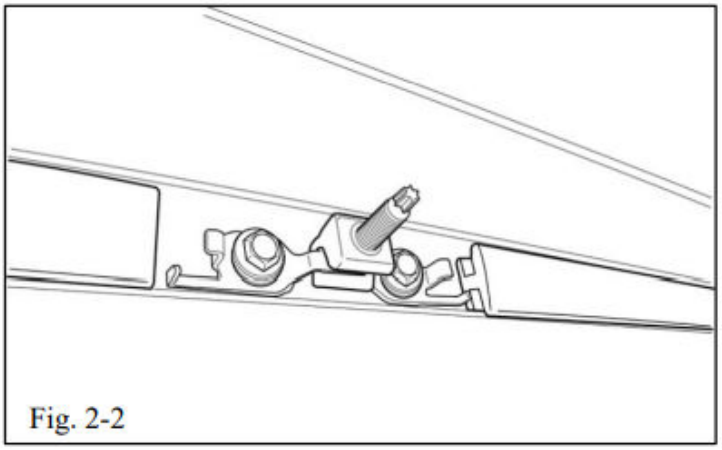


Fig. 2-2

2. Install the Crossbars

(a) Carefully open poly bag and remove content. Save the poly bag for later use.

(b) Install the J-hook bolts onto the brackets with the J-hook bolt opening facing outward from the vehicle (Fig. 2-1 and Fig. 2-2).

NOTE: Ensure the J-hook bolt opening is facing outward. Reverse installation of the J-hook bolts will result in misalignment

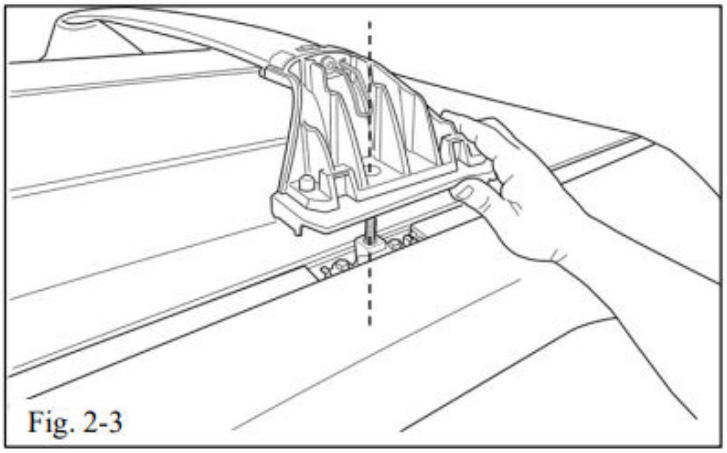


Fig. 2-3

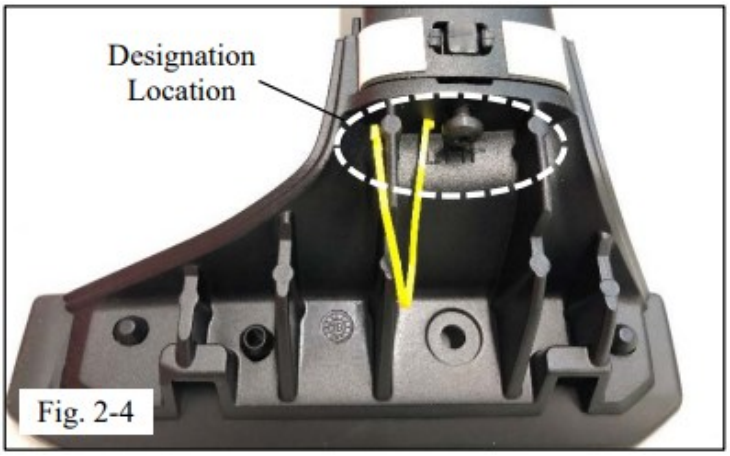


Fig. 2-4

(c) Place crossbar stanchions over J-hook bolts (Fig. 2-3).

NOTE: Ensure crossbars are in the correct position by designations on stanchions LHF, RHF, and LHR, RHR (Fig. 2-4).

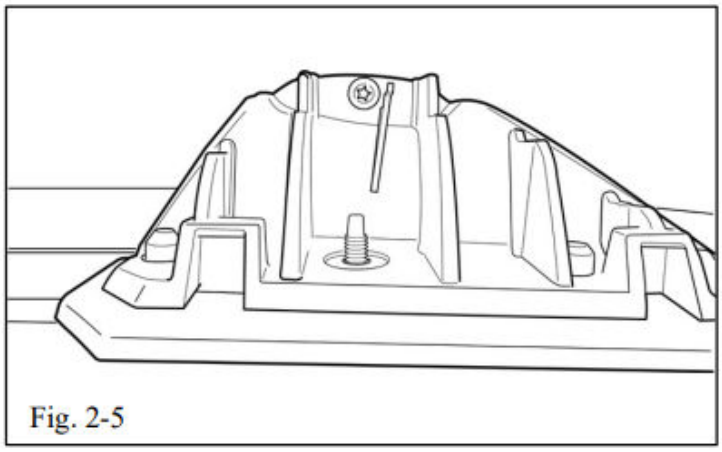


Fig. 2-5

NOTE: Ensure crossbar is centered and bolt is upright (Fig. 2-5).

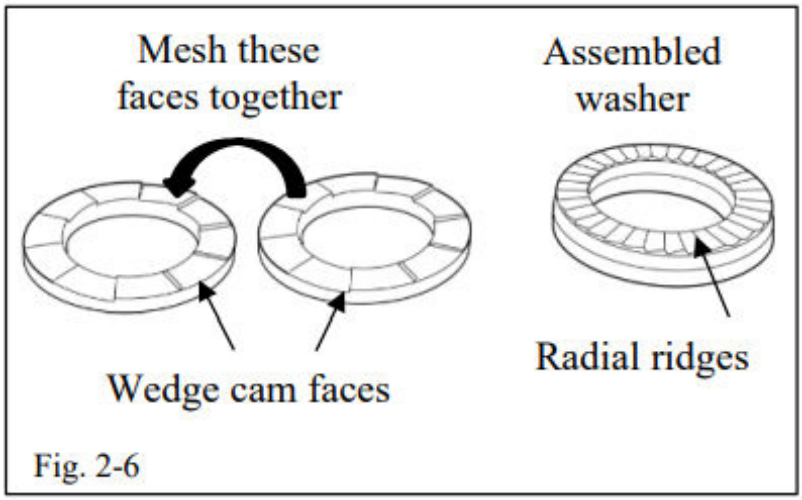


Fig. 2-6

(d) Place an assembled Wedge Lock Washer onto the bolt.

⚠ **NOTE:** Ensure wedge lock washers are correctly assembled. The washers should have the wedge cam faces together, and the radial ridges facing out (Fig. 2-6).

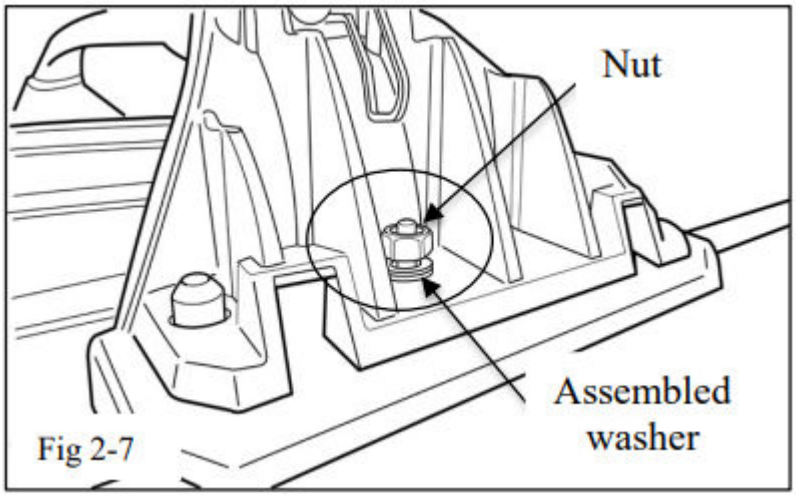


Fig 2-7

(e) Hand start and fasten a nut onto the bolt (Fig. 2-7).

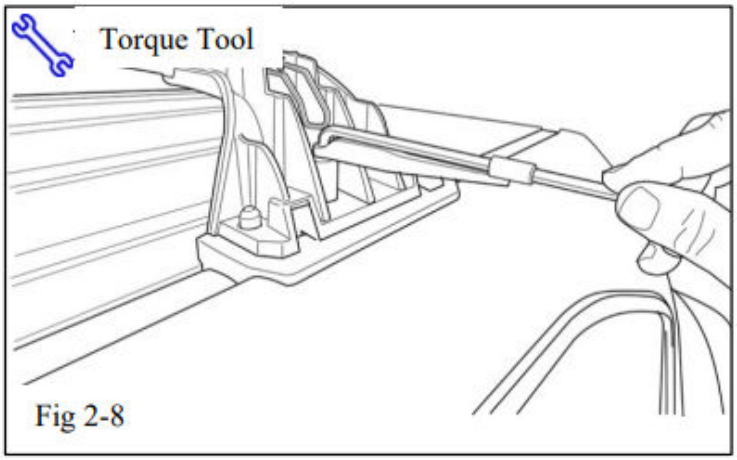


Fig 2-8

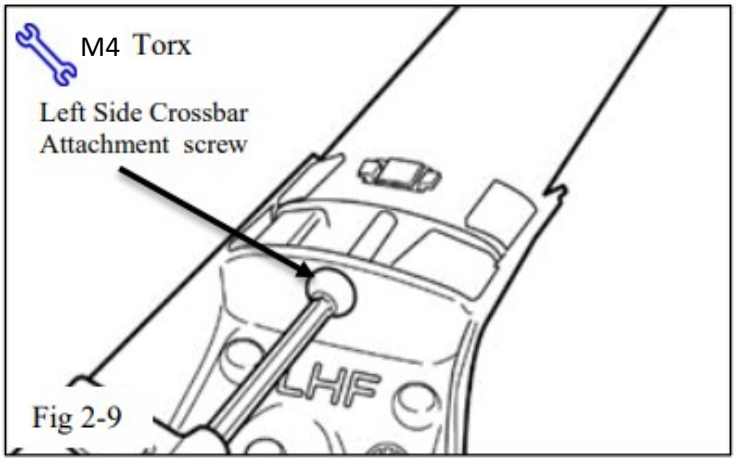


Fig 2-9

⚠ (f) Torque nuts to 15 N-m (11 ft-lb) (Fig. 2-8).

(g) Tighten only left side Crossbar Attachment screw to specification below (Fig. 2-9).

⚠ (1) For PPO installation: Torque the screw to 1 N-m (0.7 ft-lb).

(2) For DIO Installation: Fasten the screw until screw head bottoms out against stanchion. Then tighten until snug (1-3 turns).

⚠ **NOTE:** Do not loosen or tighten right side crossbar attachment screw.

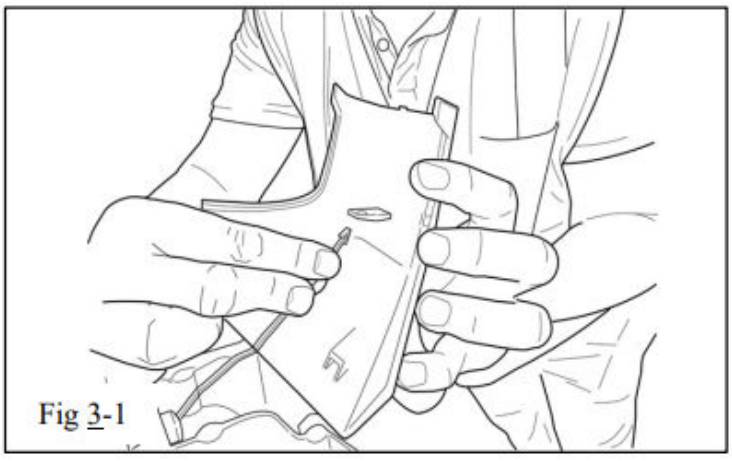


Fig 3-1

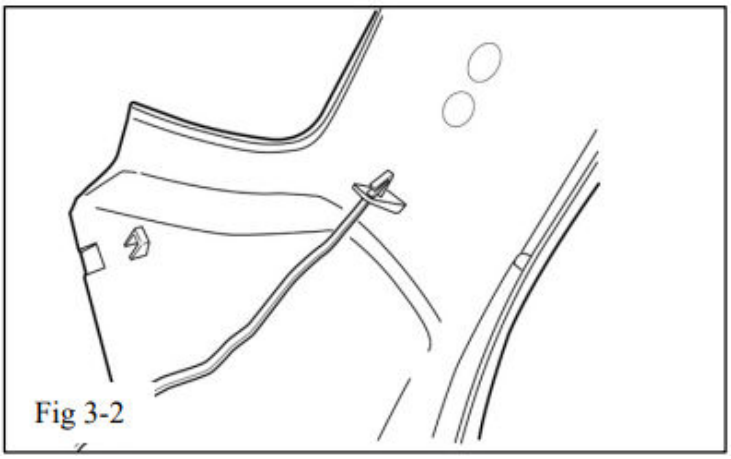


Fig 3-2

3. Install Covers Onto the Crossbar

(a) Insert the fish hook end of the tether through the hole in the corresponding cover (Fig. 3-1 and Fig. 3-2).

INSTALLATION

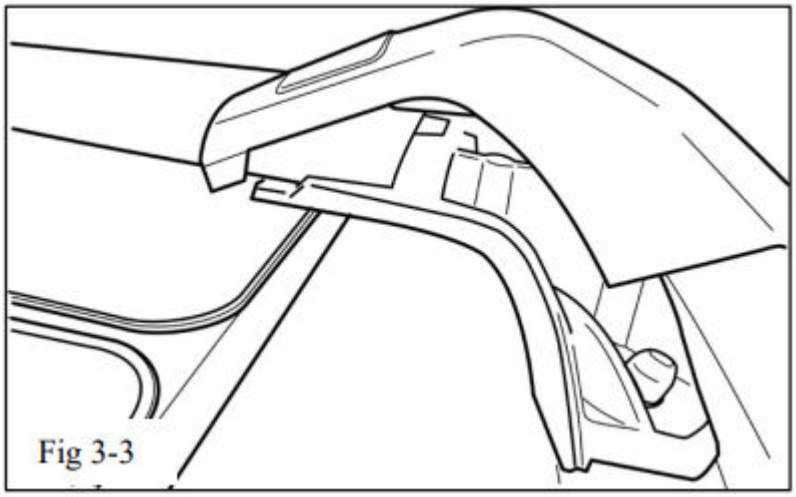


Fig 3-3

(b) Slide the top of the cover over the extrusion and snap the cover into place (Fig. 3-3 and Fig 3-4).

⚠ **NOTE:** Ensure covers are properly seated over extrusion at top and along all edges after snapping into place.

(c) Repeat steps (2) through (3) with the second crossbar.

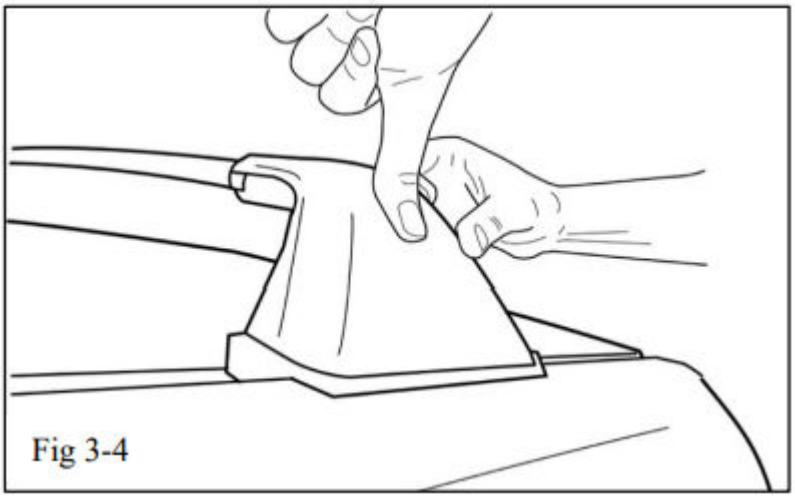


Fig 3-4

4. Complete the Installation

(a) Remove the protective covering on the roof
(b) Place the torque wrench and user's manual in the poly bag. Place the poly bag with contents and covers saved from Step 1 (b) in the glove box or center console

2 FULL INSTALLATION VIEW

SUPPORT

Visit https://rockautoaccs.com for more products

Contact at rockmautox@gmail.com for any concerns or problems in Canada.

SAFETY NOTES

Never Exceed the manufacturer's roof rack load limit.

Ensure load is evenly distributed between the two crossbars and that it is as low as possible refer to specification.

Confirm lightness every 1000 km, periodically check that the load is secure and crossbars are securely tightened.

Ensure that the crossbar are installed in correct orientation.

Ensure that the crossbars are fully installed to the side supports with no gaps.

ROKIOTOEX will warranty all ROKIOTOEX brand car rack systems and its accessories manufactured by ROKIOTOEX during the time that an original retail purchaser owns the product. This warranty terminates if a purchaser transfers the product to any other person.

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