



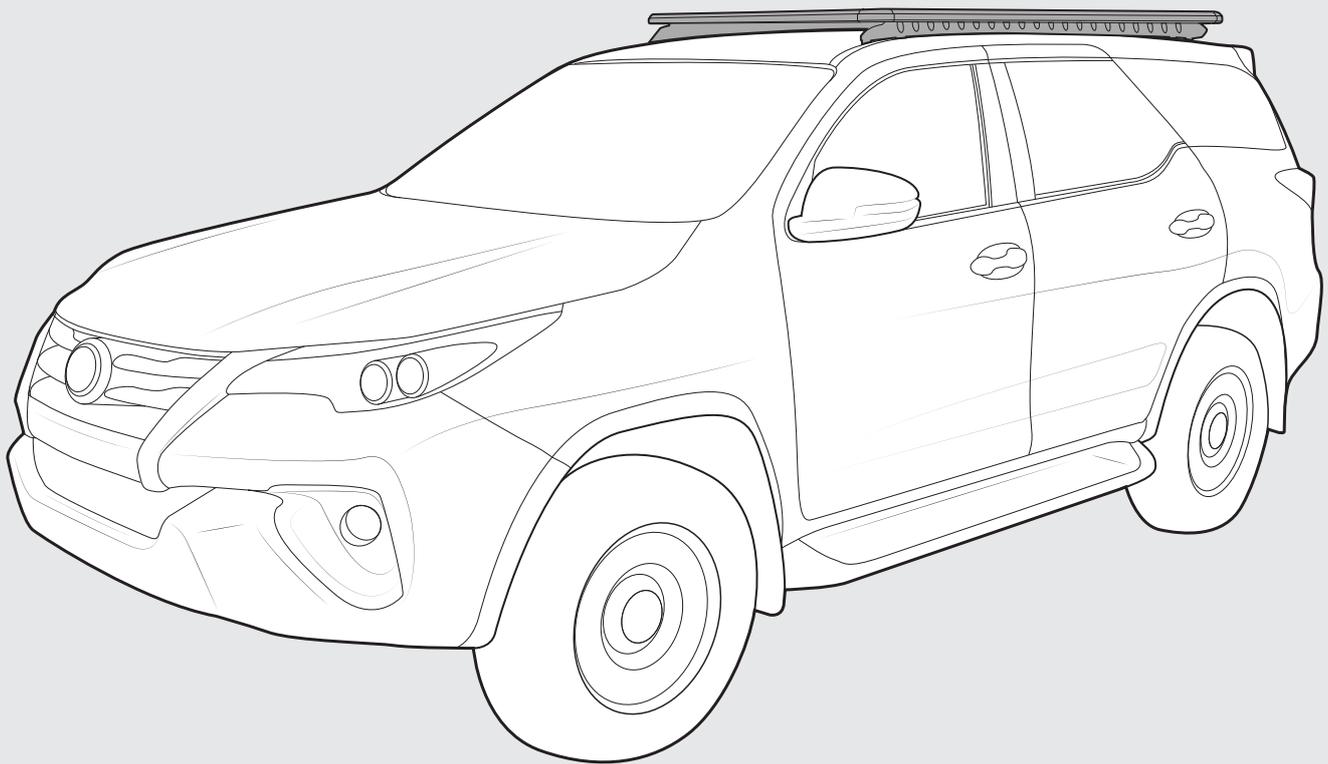
RHINO-RACK®

TOYOTA Fortuner GXL & Crusade Backbone RTFB1

Important:

1. Check the Rhino-Rack website to ensure you have the latest issue of these instructions.
2. Please refer to your fitting instruction to ensure that the roof racks are installed in the correct locations.
3. Check the contents of kit before commencing fitment and report any discrepancies.
4. Place these instructions in the vehicle's glove box after installation is complete.
5. These instructions must be followed for warranty to be upheld.

Fit Time: 3 hours



Rhino-Rack AUSTRALIA
22A Hanson Pl,
Eastern Creek, NSW, 2766
(02) 8846 1900
rhinorack.com.au

Rhino-Rack USA
Unit D, 2450 Airport Blvd,
Aurora, CO, 80011
877-744-6622
rhinorack.com

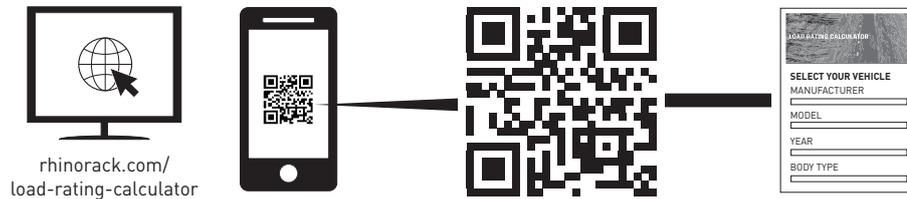
Rhino-Rack CANADA
19100 Airport Way
Pitt Meadows, BC V3Y 0E2
rhinorack.ca

Document No: R1546
Issue No: 07
Issue Date: 05/10/2021

RTFB1 Backbone Instructions

Carrying Capacity

Check the website and the vehicle owners hand book for your vehicle manufacturer's maximum carrying capacity. Load must be evenly distributed over the system.



Cargo Load Limit

Total permissible weight allowed on top, and attached to the rack whilst the vehicle is in motion.



System Weight

Total weight of the rack system. (e.g. Crossbars, Backbone, Platform)



Max System Load Capacity

Please ensure you use the vehicle manufacturer's maximum roof allowance if it is lower than the figure listed in the fitting chart/supplement.



Vehicle Manufacturer's Load Limit

Total permissible weight attached to the rack. This is inclusive of the weight of the rack system.

Warning

- Check part number or kit is correct for use with your vehicle.
- Do not attempt to fit the rack system to your vehicle unless you fully understand these fitting instructions. Please direct any questions regarding fitting to the dealer from where the roof racks were purchased.
- Off-road conditions can be much more rigorous. Extreme care must be taken on any driven path that does not contain a surface protection layer (tar/bitumen).
- Racks must be removed when vehicle is put through an automatic car wash.
- With utility/pick up vehicles, the cabin and the utility tray/truck bed move independently. Racks and vehicle can be damaged if the item transported is rigidly fixed at points on both the cabin and utility tray/truck bed. Instead, rigidly fix to either the utility tray/bed racks or the canopy roof racks.
- Always ensure you fasten your load securely.
- Use only non-stretch fastening ropes or straps to attach cargo to your load.

In service maintenance checks

- All bolt connections should be checked after driving a short distance when you first install your roof racks.
- All bolted connections should be checked again at regular intervals (weekly is recommended, depending on road conditions, usage, loads and distances travelled).
- All bolted connections should be checked each time they are re-fitted.
- Off-road conditions are more rigorous. Check all bolted connections and your load more regularly.
- Ensure that your vehicle manufacturer's GVM, and gross axle weights are not exceeded (refer to vehicle owner's manual).

Torque Settings

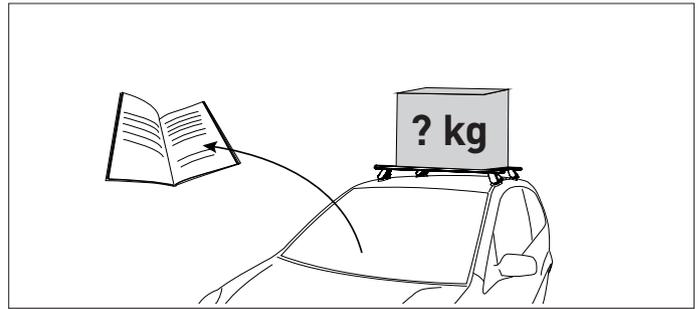
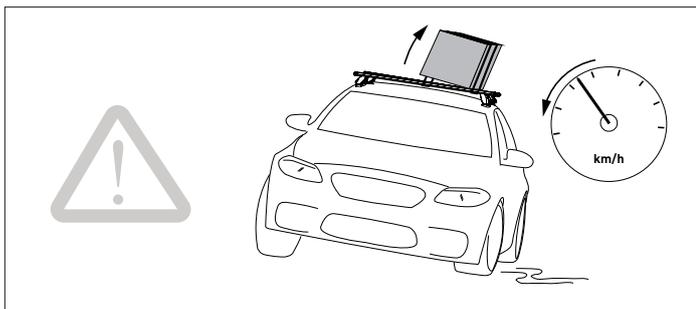
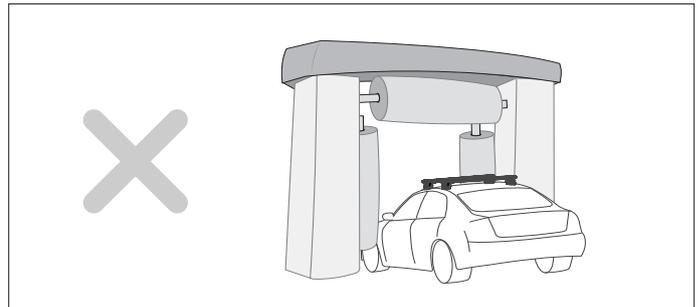
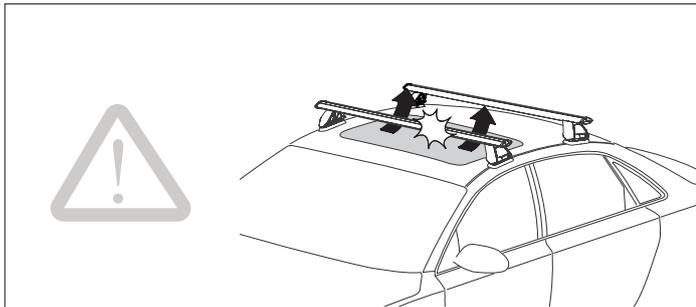
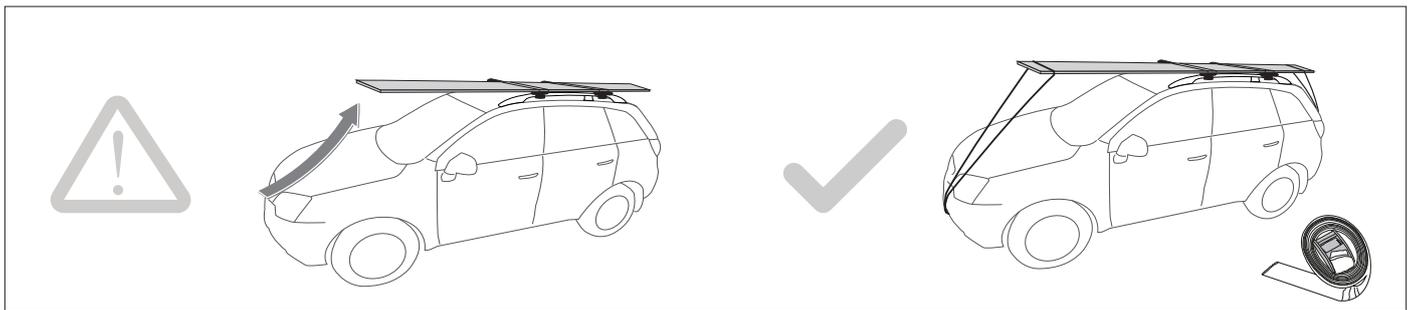
Unless stated otherwise in these instructions, all fasteners should be set to the following torque settings:

- M6: 4-5Nm (3-4lbs/ft),
- M8: 8-10Nm (6-7.5lbs/ft)
- M10: 16-18Nm (12-13lbs/ft).

Note for Dealers and Fitters

It is your responsibility to ensure these fitting instructions are given to the end user or client. These instructions remain the property of Rhino-Rack Australia Pty. Ltd. and may not be used or changed for any other purpose than intended.

RTFB1 Backbone Instructions



The handling characteristics of the vehicle changes when a load is transported on the roof. Exercise extreme care when transporting wind-resistant loads. Special consideration must be taken when cornering and braking.

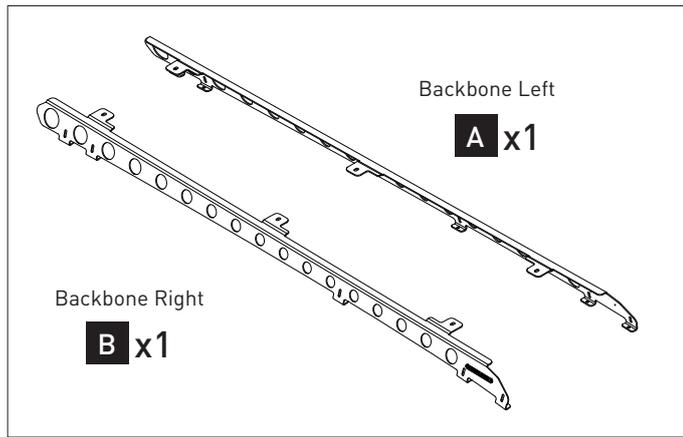
Off-road conditions can be much more rigorous. Extreme care must be taken in off-road conditions.

Ensure Ladder is well supported on the ground to support tent. Take extreme caution when climbing heights above 1.2m/4ft.

Paddle/ Surfboards should be fixed to the front of the vehicle.

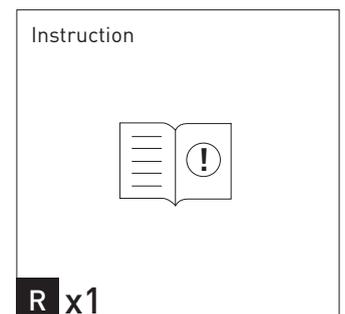
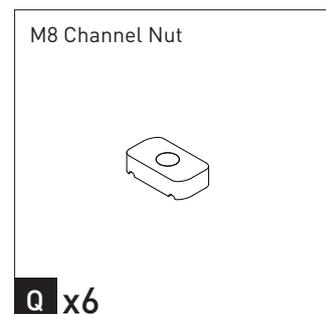
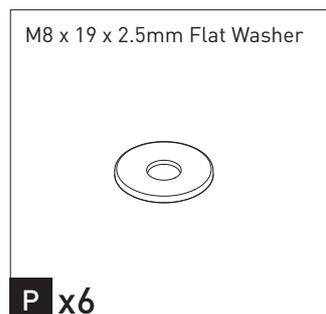
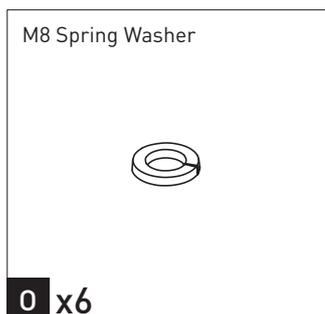
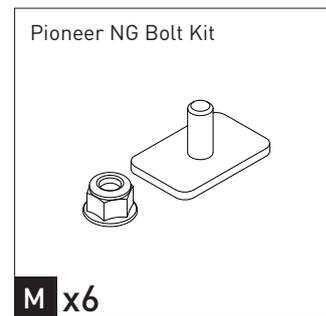
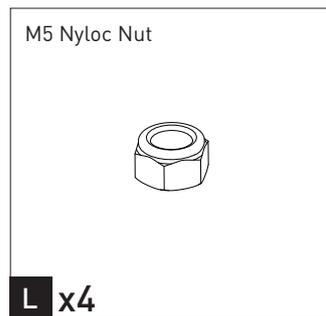
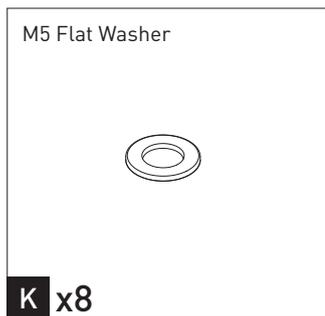
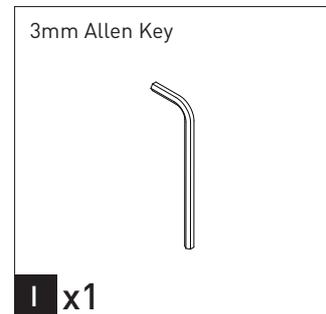
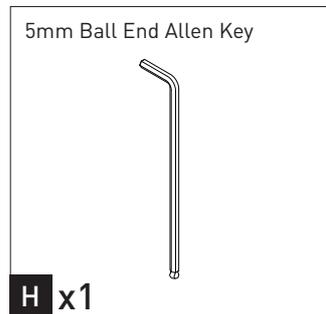
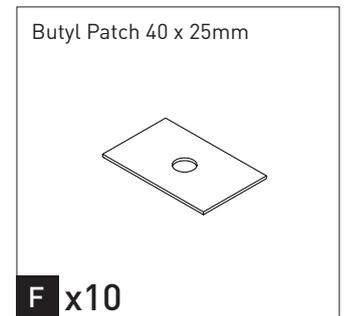
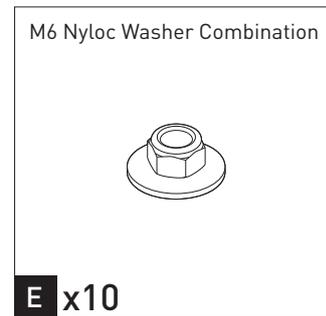
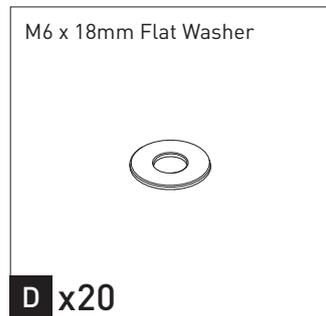
RTFB1 Backbone Instructions

Parts List



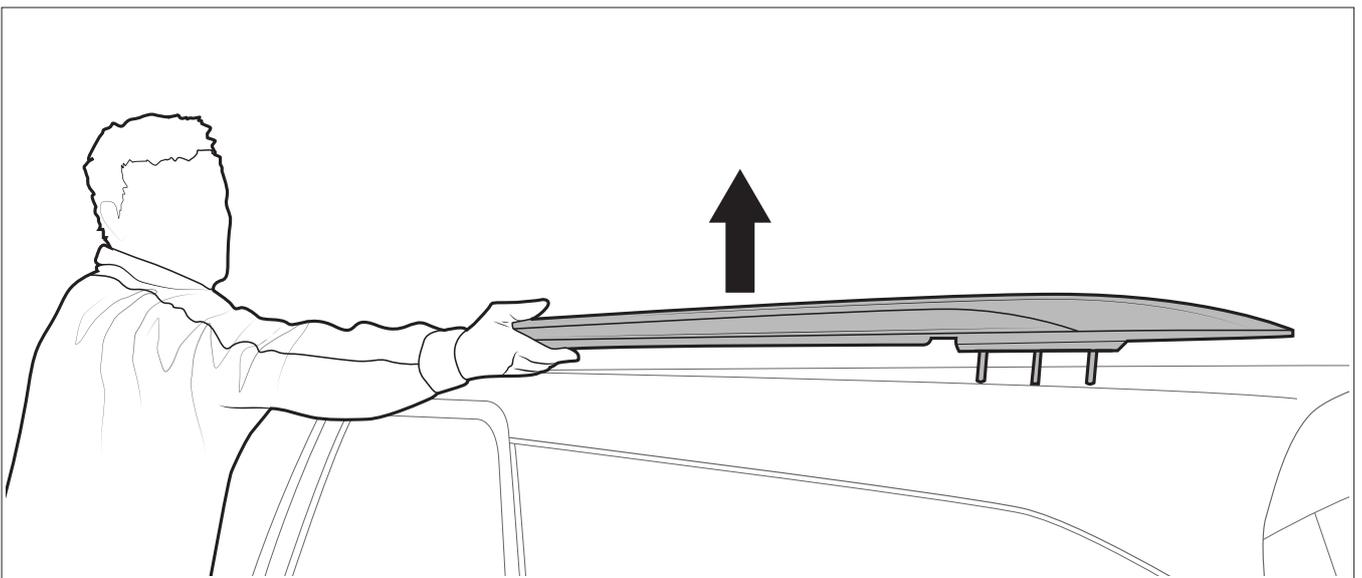
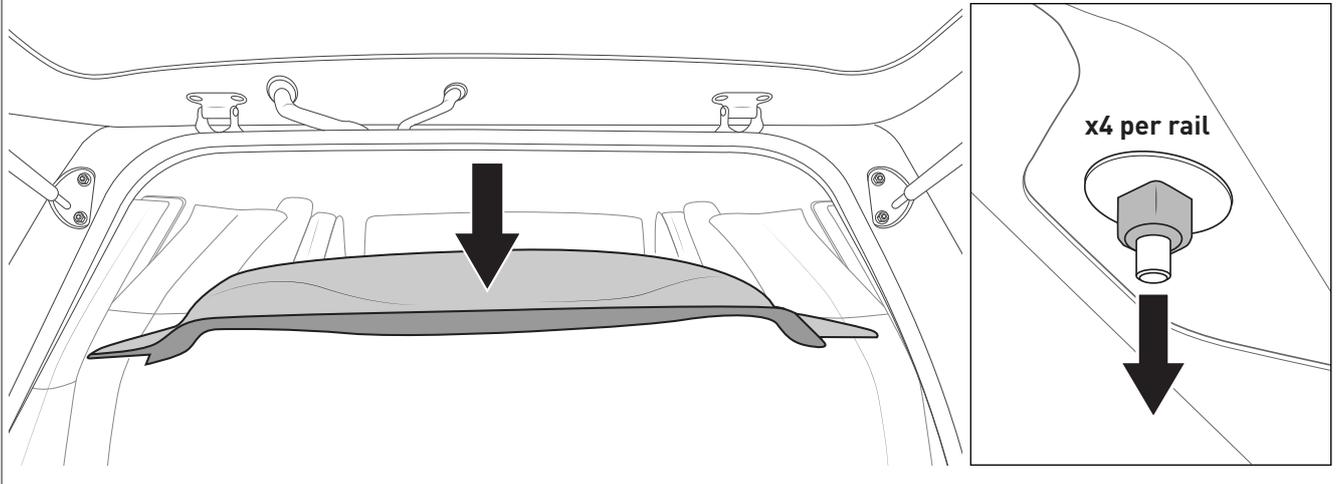
Tools Required:

- T1 - 13mm Socket Wrench / Spanner
- T2 - 10mm Socket with Extension
- T3 - 8mm Socket with Extension
- T4 - Masking tape
- T5 - Cleaning Rag

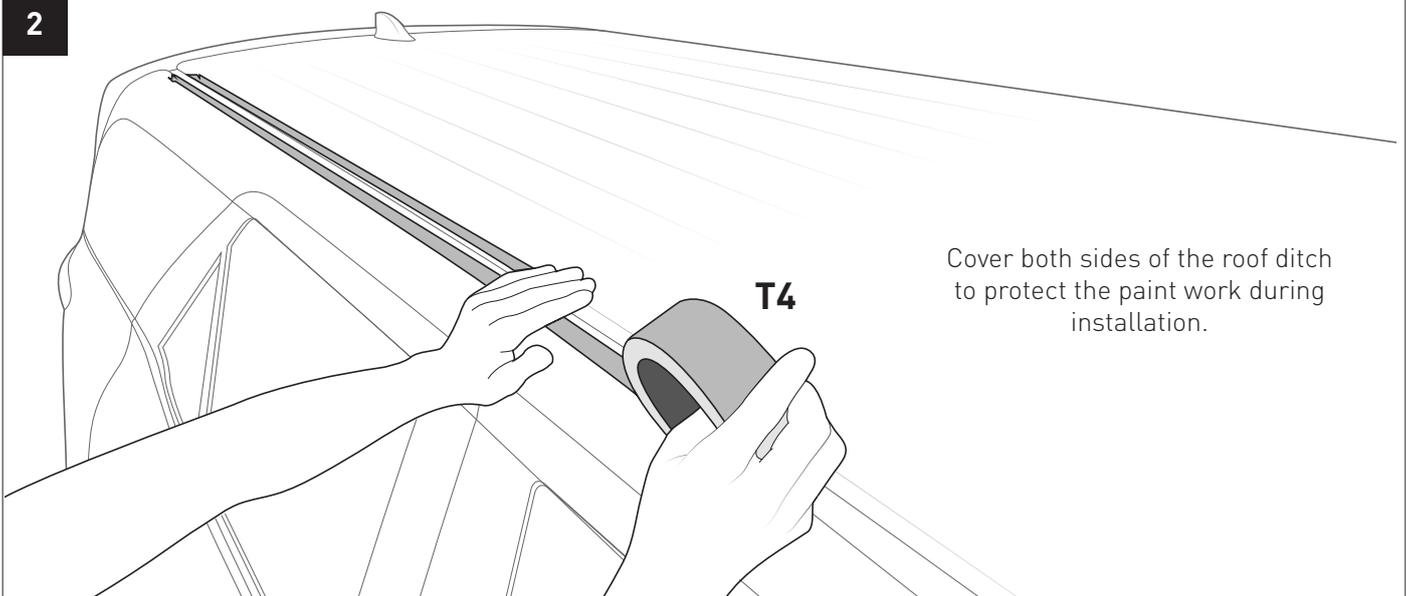


1 FACTORY RAIL REMOVAL

Hood lining must be carefully dropped to access the factory nuts and washers installed under the roof rails. Unscrew the factory hardware to remove roof rails. There are 4 nuts to remove for each rail.



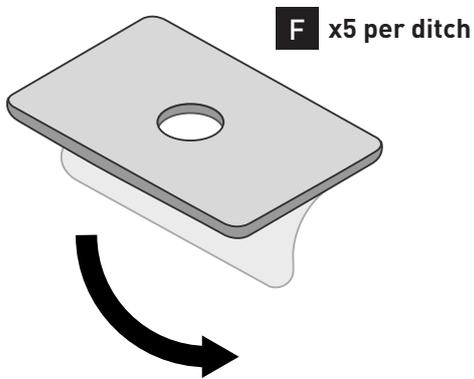
2



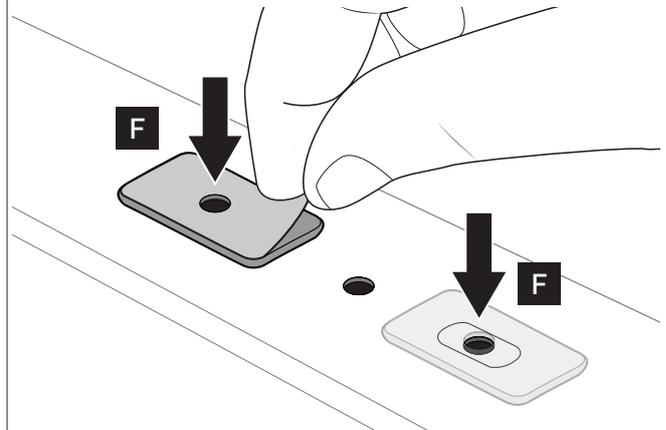
Cover both sides of the roof ditch to protect the paint work during installation.

3 Apply butyl patches to all exposed factory holes.

3a Peel off one side of backing tape.



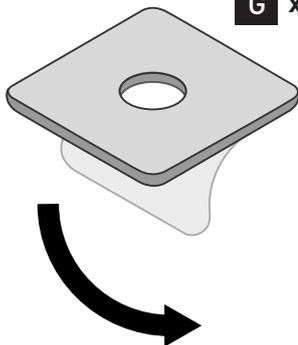
3b Place over the top of the exposed factory holes. Remove the top layer of backing.



Note: Between the two factory holes at the front of the vehicle, there is a locating hole present.

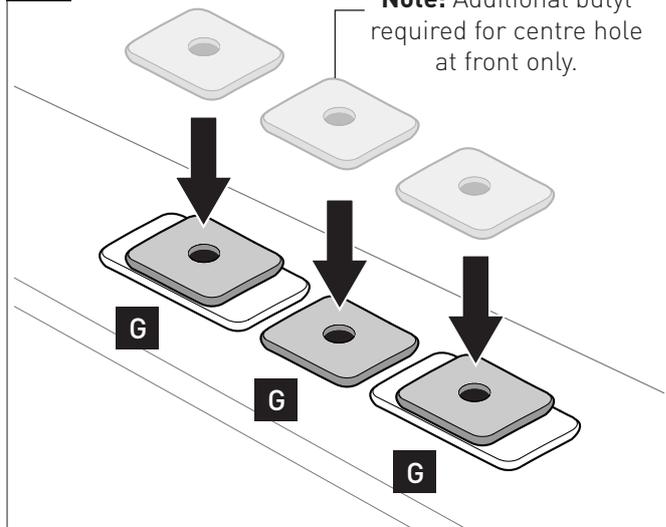
3c

G x6 per ditch

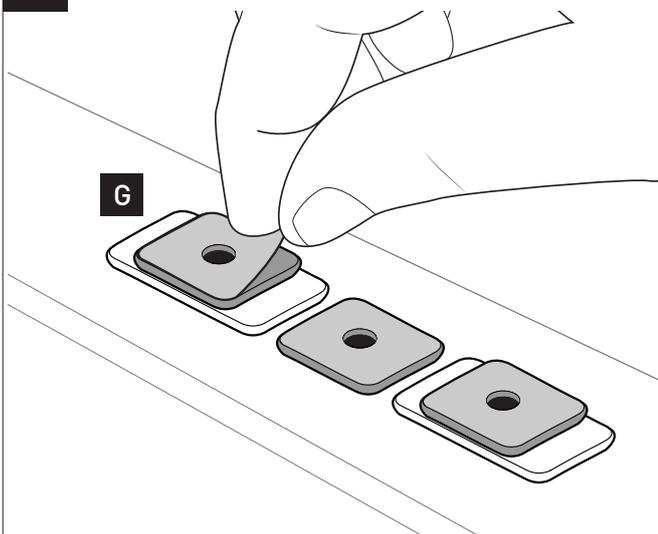


3d

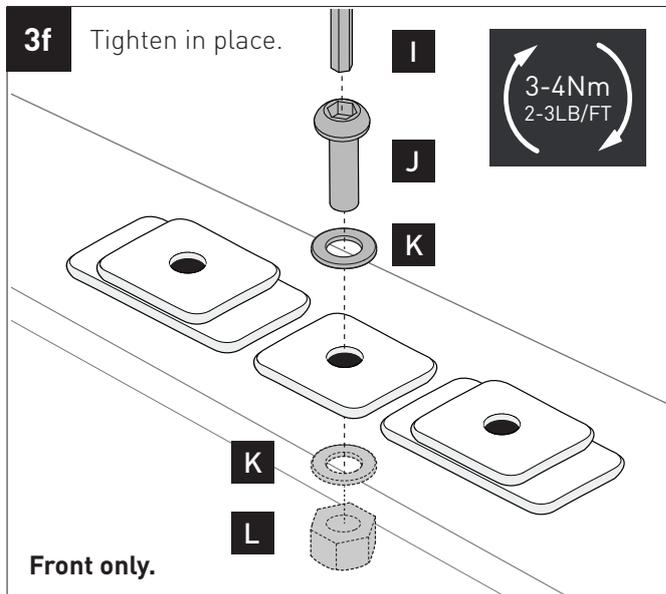
Note: Additional butyl required for centre hole at front only.



3e Remove the top layer of backing.



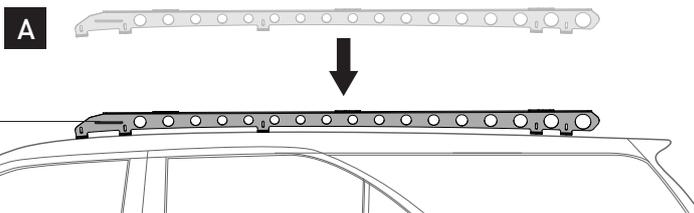
3f Tighten in place.



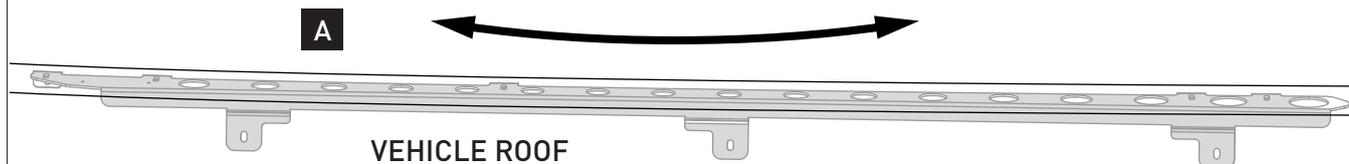
RTFB1 Backbone Instructions

- 4** Place the left backbone onto the roof of the vehicle. Line up the mounting points of the backbone to the previously exposed roof holes.

Note: Rhino Rack Badge indicates the front end of the backbone.

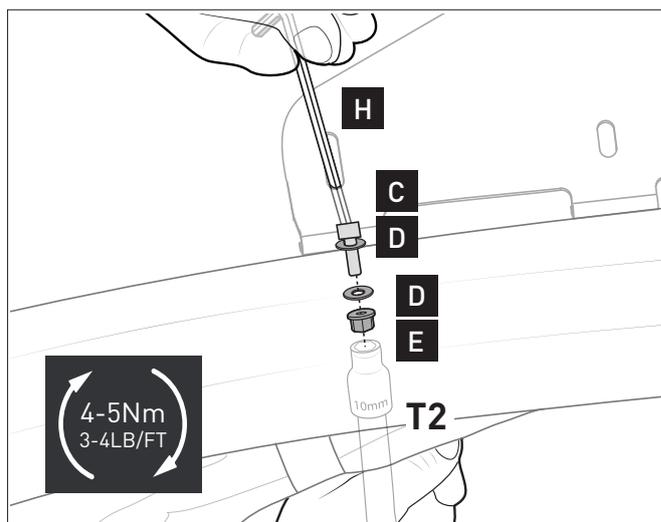
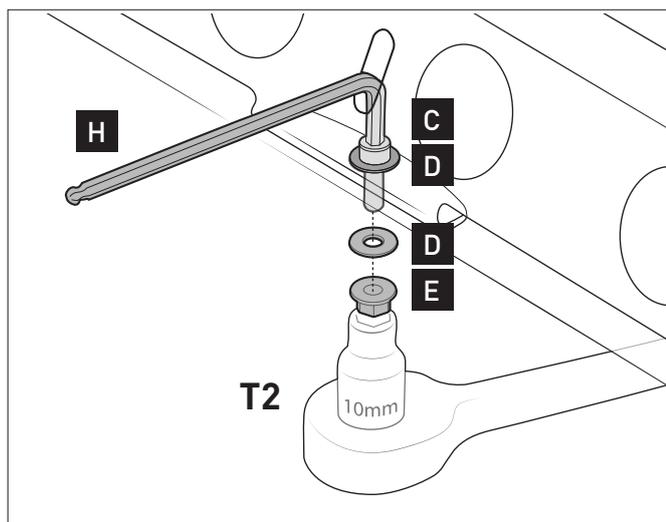


TOP VIEW



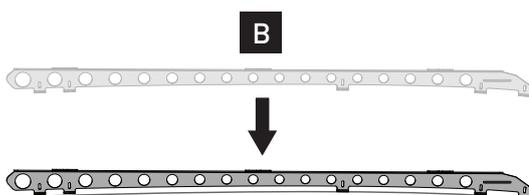
Note: The backbones will require a slight amount of flex to follow the contour of the roof. ditch.

- 5** Fasten all 5 backbone mounting points to the vehicle roof.



- 6** Repeat Steps 2 to 5 to opposite side of vehicle.

Ensure backbones are securely positioned and fastened before attaching Pioneer Tray. Remove masking tape.



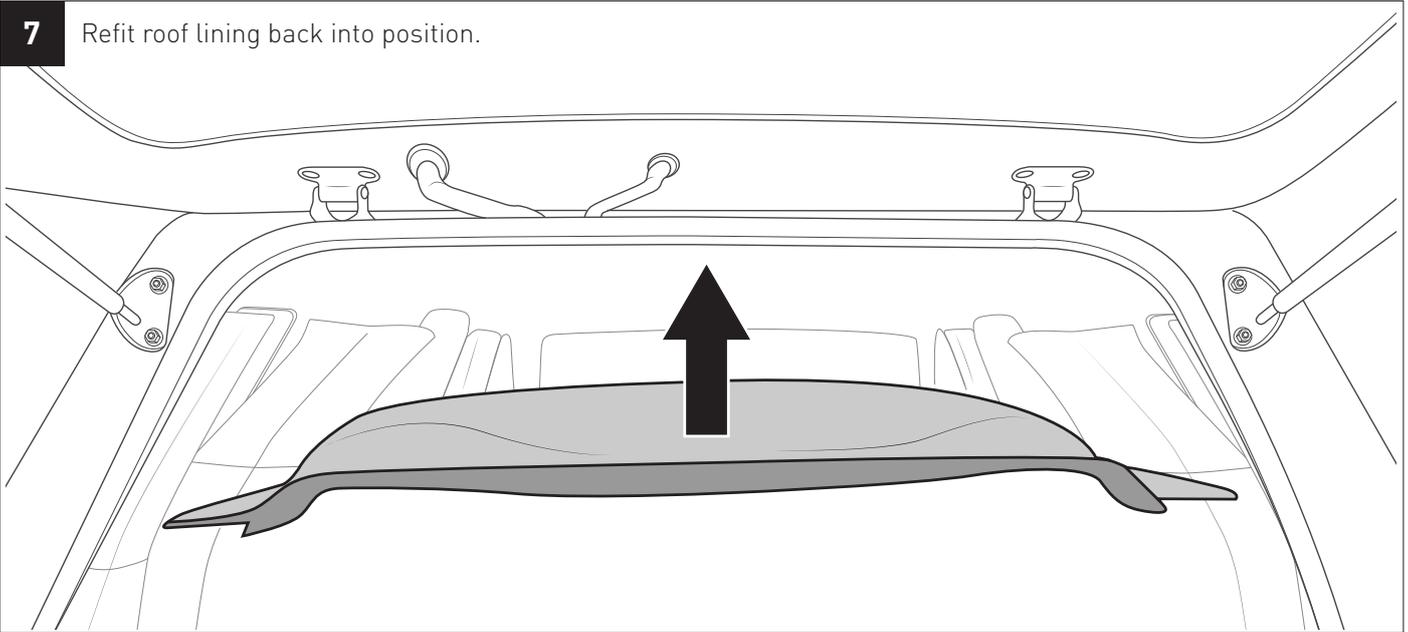
FRONT VIEW



Metal Tabs face inwards toward the vehicle.

RTFB1 Backbone Instructions

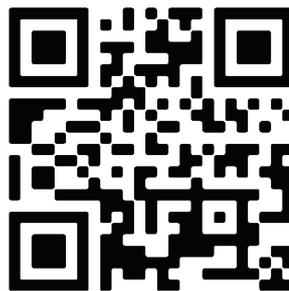
7 Refit roof lining back into position.



8 PLATFORM INSTALLATION



rhinorack.com/roof



EXAMPLE ONLY

RHINO-RACK | PIONEER VEHICLE FITTING INFORMATION

VEHICLE	VEHICLE	NUMBER	CONNECTOR	UNDERBAR SPACING	ROOF	HEIGHT	HEIGHT ABOVE CHASSIS
VEHICLE	VEHICLE	NUMBER	CONNECTOR	UNDERBAR SPACING	ROOF	HEIGHT	HEIGHT ABOVE CHASSIS
VEHICLE	VEHICLE	NUMBER	CONNECTOR	UNDERBAR SPACING	ROOF	HEIGHT	HEIGHT ABOVE CHASSIS

NOTE: THE DYNAMIC LOAD LIMIT IS THE LOWER OF THE TWO VALUES LISTED.

VEHICLE MANUFACTURER'S RECOMMENDED ROOF LOAD LIMIT IS LOWER THAN THE FIGURE LISTED.

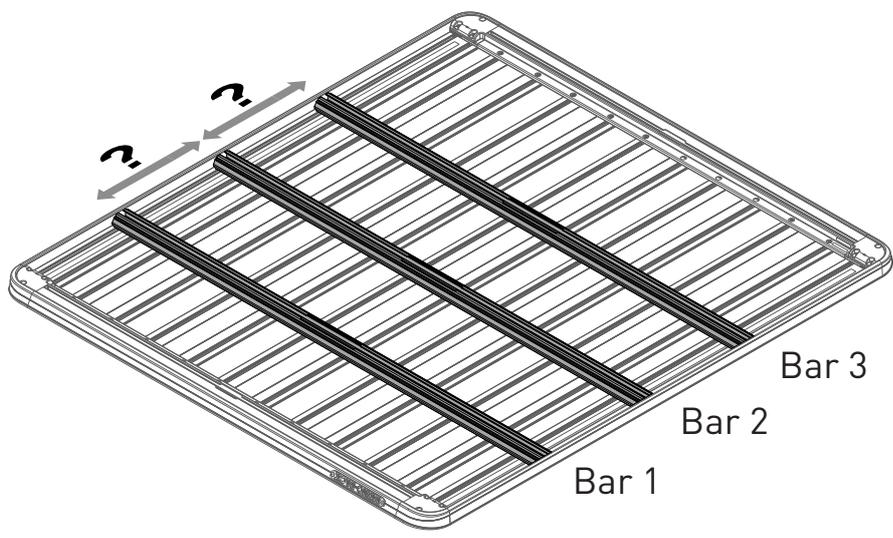
UP TO 96 Kg + 24 Kg = UP TO 120 Kg
 UP TO 212 lbs + 53 lbs = UP TO 265 lbs

VEHICLE MANUFACTURER'S ROOF LOAD LIMIT

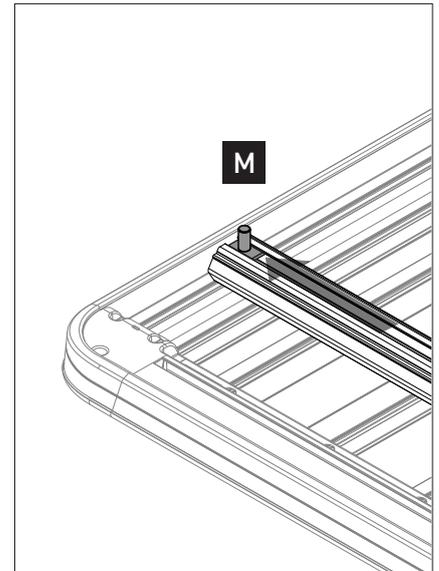
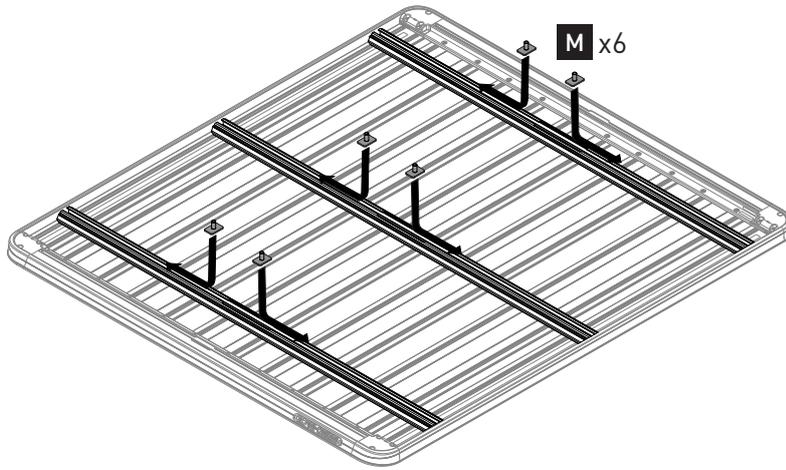
UNDERBAR SPACING

BAR NO.	A	B	C	D	E	F	G
CONNECTOR	BACKWARD	BACKWARD					

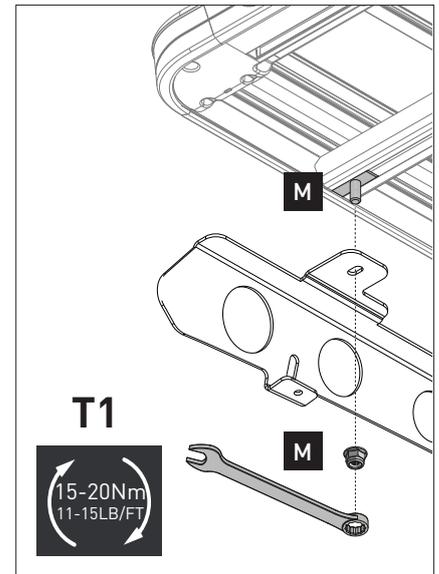
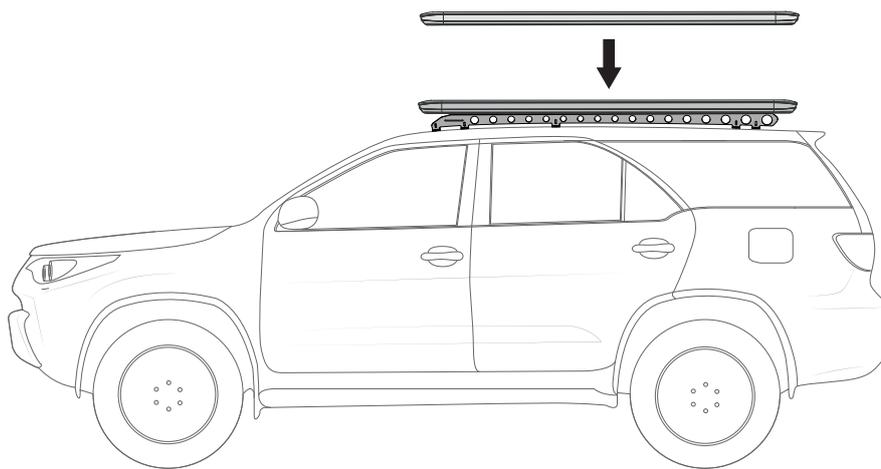
View Fitting Chart



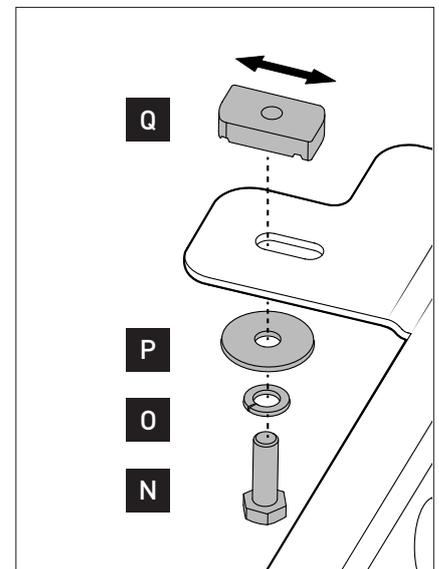
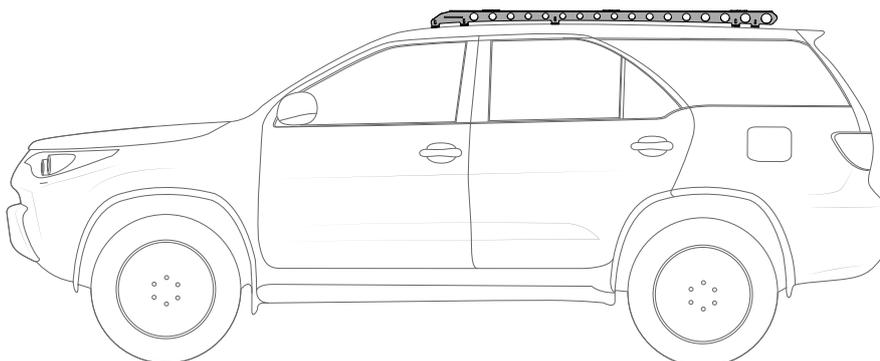
9 For 5XXX Series Platform



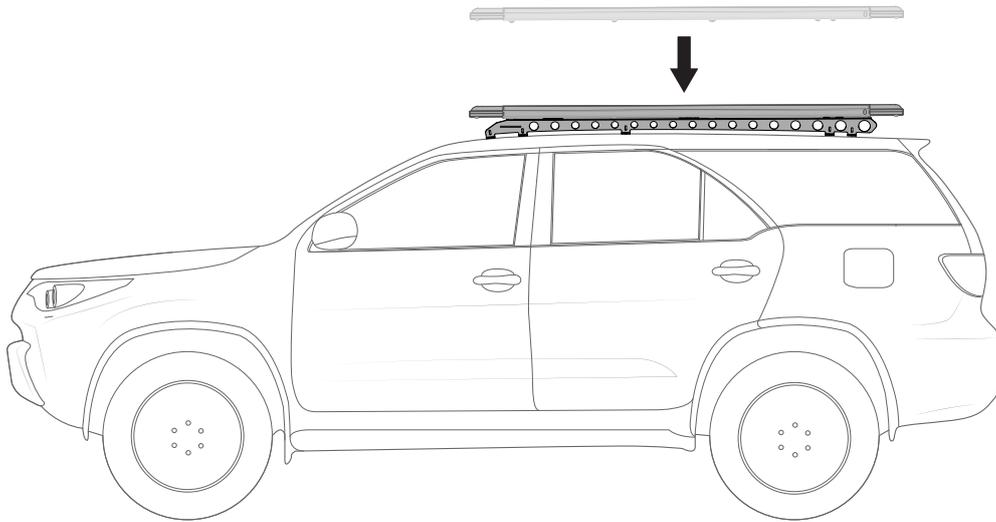
10 For 5XXX Series Platform



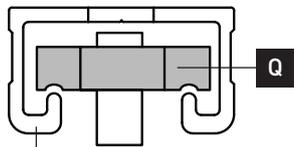
11 For 4XXX Series Platform



12 For 4XXXX Series Platform



Ensure channel nut has rotated within Pioneer underbar and is fixing Pioneer securely.



Pioneer underbar

