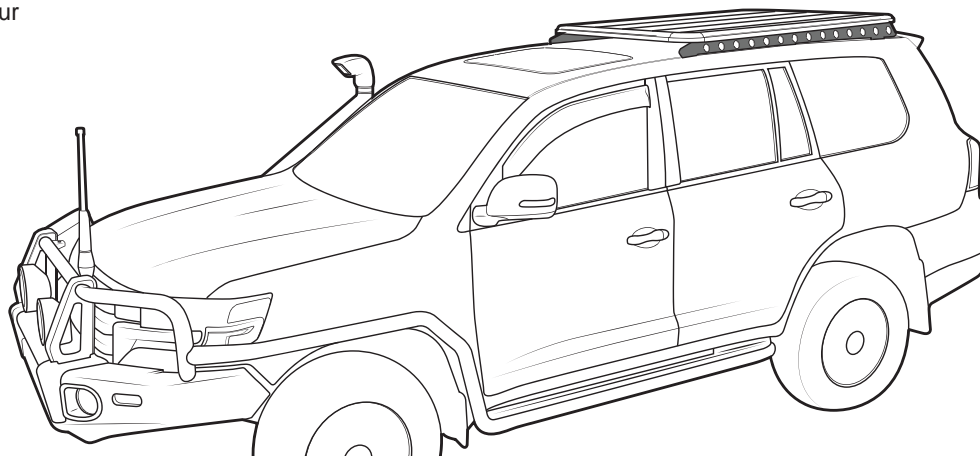


RHINO-RACK

Toyota Land Cruiser 200 Series Short Backbone - RTLB3

Fit Time: 1 Hour



IMPORTANT INFORMATION

Maximum carrying capacity:

Suitable Pioneers	On Road Cargo Allowance	Off Road Cargo Allowance	Static Allowance	Roof Allowance	Rack Weight
42100B	71kg / 157lb	51kg / 112lb	331kg / 730lb	100kg / 220lb	29kg / 64lb
45100B	69kg / 152lb	49kg / 108lb	329kg / 725lb		31kg / 68lb
41100	66.5kg / 147lb	46.5kg / 103lb	326.5kg / 720lb		33.5kg / 74lb
42101B	68kg / 150lb	48kg / 106lb	328kg / 723lb		32kg / 71lb
45101B	66kg / 146lb	46kg / 101lb	326kg / 719lb		34kg / 75lb
41101	63.5kg / 140lb	43.5kg / 96lb	323.5kg / 713lb		36.5kg / 80lb

Roof Allowance: Total permissible weight attached to the roof of the car. This is inclusive of the weight of the roof rack system

Cargo Allowance: Total permissible weight allowed on top, and attached to roof racks whilst the vehicle is in motion

Static Allowance: Total permissible weight allowed on top, and attached to roof racks whilst the vehicle is stationary

Please refer to your vehicle manufacturers handbook for maximum carrying capacity. Always use the lower of the two figures. Load must be evenly distributed over the entire Pioneer. Weight of roof rack accessories is to be included in cargo allowance.

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) and M10: 16-18Nm (12-13lbs/ft).

Warning:

- Check Part No. and/ 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.
- **Use only non-stretch fastening ropes or straps.**
- The handling characteristics of the vehicle changes when you transport a load on the roof. For safety reasons we recommend you exercise extreme care when transporting wind-resistant loads. Special consideration must be taken into account when cornering and braking.
- Although the system is tested and approved to AS1235-2000 / ISO 11154, off-road conditions can be much more rigorous. Extreme care must be taken in off road conditions

Recommendations:

It is essential that all bolt connections be checked after driving a short distance when you first install your roof racks. Bolt connections should be checked again at regular intervals (once a week is enough, depending on road conditions, usage, loads and distances travelled). You should also check the roof racks each time they are re-fitted. Always make sure to fasten your load securely. Please also ensure that all loads are evenly distributed and that the centre of gravity is kept as low as possible and must be entirely contained within the extents of the roof racks.

Note for Dealers and Fitters:

It is your responsibility to ensure these fitting instructions are given to the end user or client

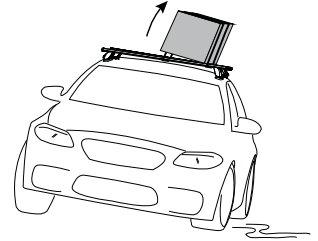
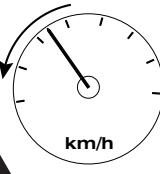
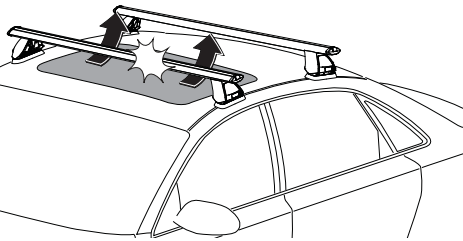
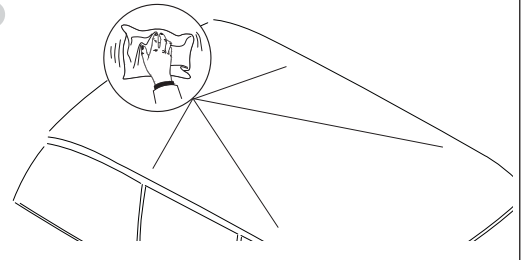
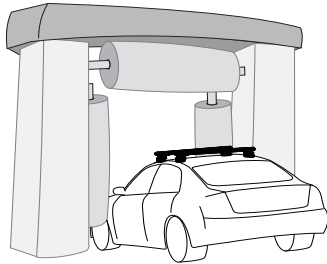
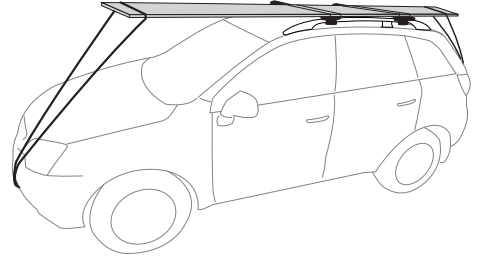
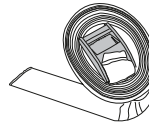
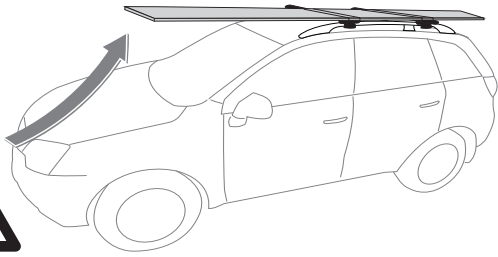
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Document No: R1699
Prepared By: Kayle Everett
Authorised By: Chris Murty

Issue No: 02
Issue Date: 14/06/2018

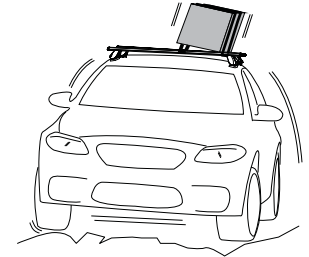
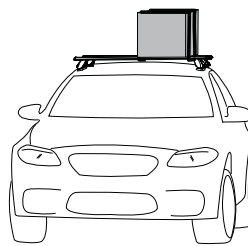
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Toyota Land Cruiser 200 Series Short Backbone - RTLB3

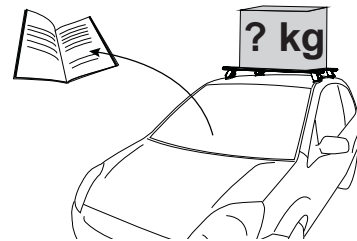
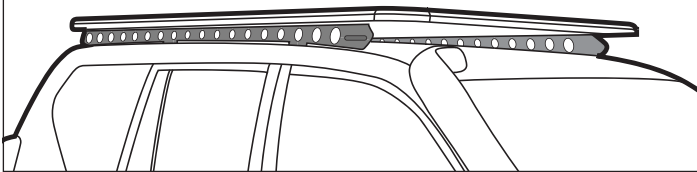


The handling characteristics of the vehicle changes when you transport a load on the roof. For safety reasons we recommend you exercise extreme care when transporting wind-resistant loads. Special consideration must be taken into account when cornering and braking.

Although the system is tested and approved to AS1235-2000 / ISO 11154, off-road conditions can be much more rigorous. Extreme care must be taken in off road conditions



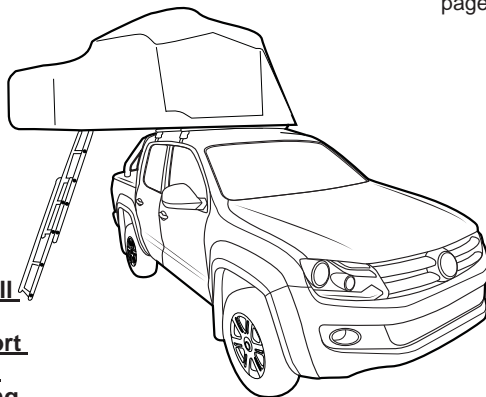
System Weight: 29 - 36.5kg



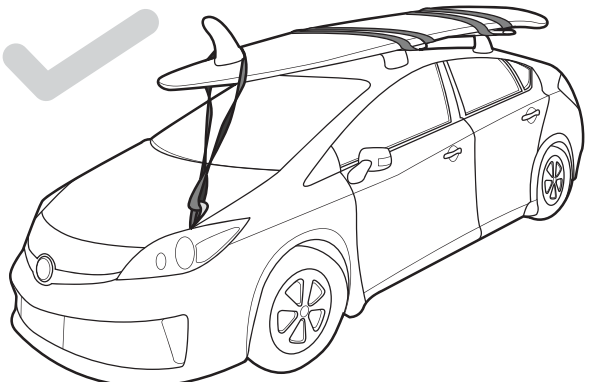
Static Load Rating: refer to front page



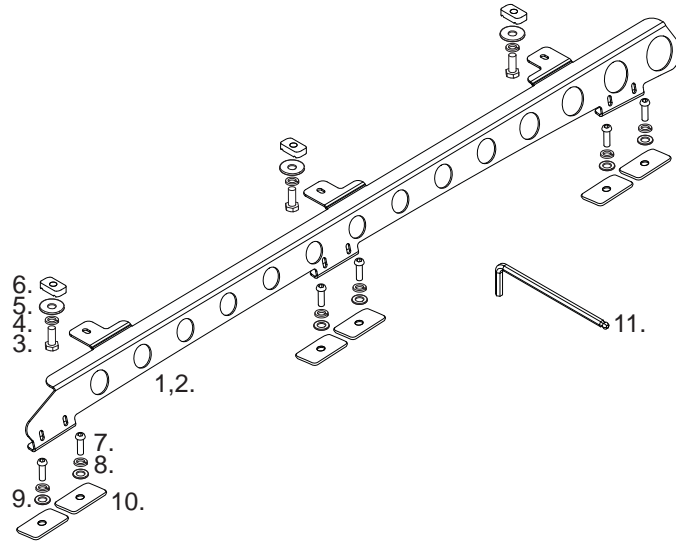
Ensure Ladder is well supported on the ground to help support tent. Take extreme caution when climbing heights above 1.2m/4ft.



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



Toyota Land Cruiser 200 Series Short Backbone - RTL B3



Item	RFRB2	Qty	Part No.
1	LC200 (short) Backbone LHS	1	CA1793
2	LC200 (short) Backbone RHS	1	CA1794
3	M8 x 20mm Hex Bolt	6	B020
4	M8 Spring Washer	6	W019-BLK
5	M8 x 24mm Flat Washer	6	W064-BLK
6	M8 Channel Nut	6	N003-BLK
7	M8 x 25mm Button Head Screw	12	B140
8	M8 Spring Washer	12	W019

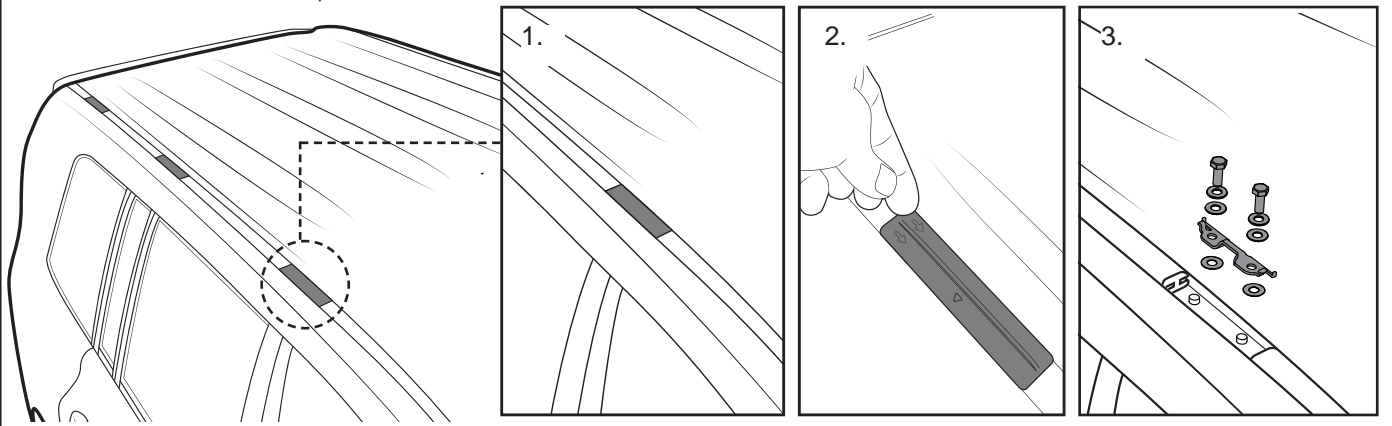
9	M8 x 16mm Flat Washer	12	W020
10	Butyl Patch 40x25	12	CA1260
11	Allen Key	1	-
12	Instructions	1	R1698

Tools Required:

1. Socket Wrench
2. Flat blade Screw Driver
3. Rattle gun

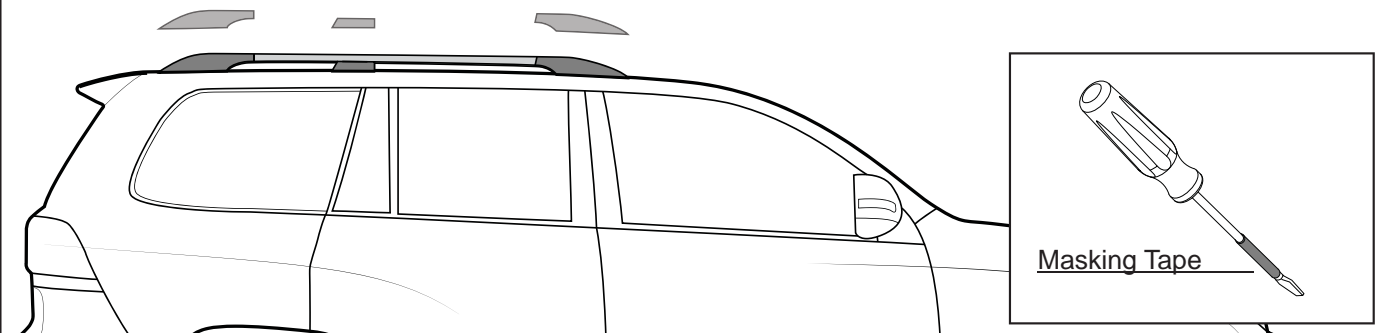
Removing Fixed point mount covers

Move to the roof of the vehicle. If your car is not fitted with factory roof rails, remove the eight mounting point covers (3 per side, from the rear). Remove Sliding the cover forward and rotating out. Remove the two M8 bolts, washers and bracket. Note that these are not required to fit the Backbone, store these in a safe place.



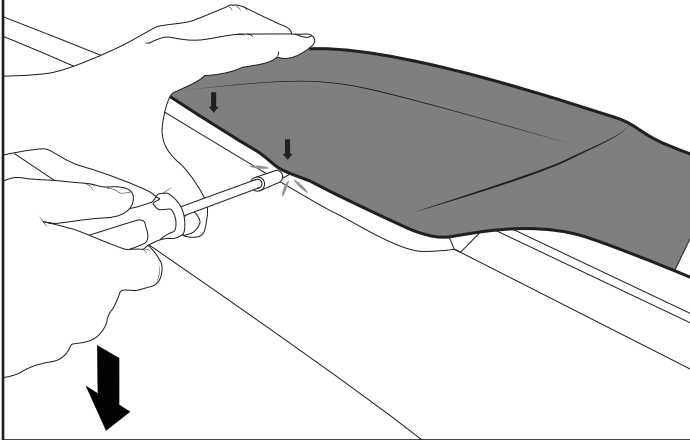
Removing Factory Elevated Roof Rails

- 1 If the Toyota 200 Series Land Cruiser has factory elevated Roof Rails you will need to remove these before installing the Backbone. To access the hardware fixing the Roof Rails to the roof, you must first remove the Plastic Covers. You will need a flat head screwdriver to pry the Plastic Covers off. To minimise potential damage to the vehicle, it's recommended to pad the metal shaft of the screwdriver with multiple layers of masking tape. This will pad the screwdriver if it hits the bodywork of the vehicle.

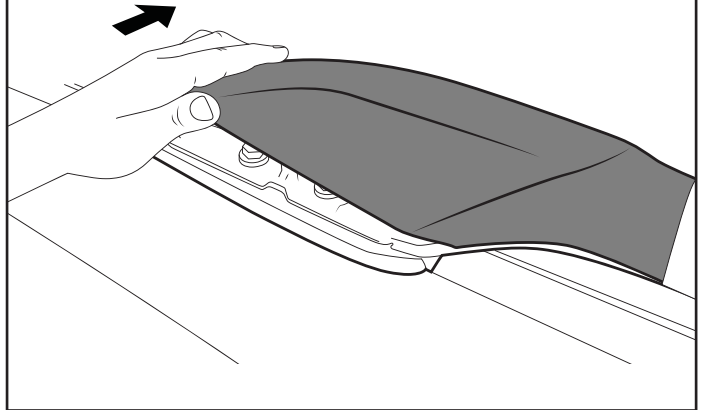


Toyota Land Cruiser 200 Series Short Backbone - RTLB3

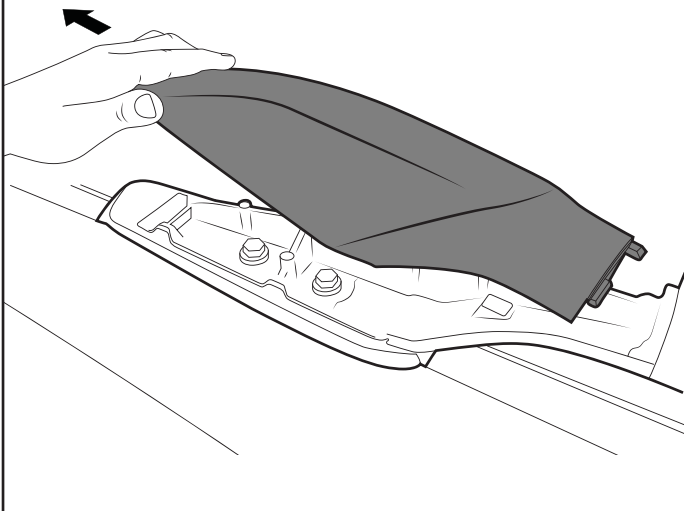
2 Using the tape covered screwdriver, unclip the two outside clips holding the covers onto the roof rails. You will need to flex the outside of the covers and find where the clips are resisting. Lever downwards until the clips pop out.



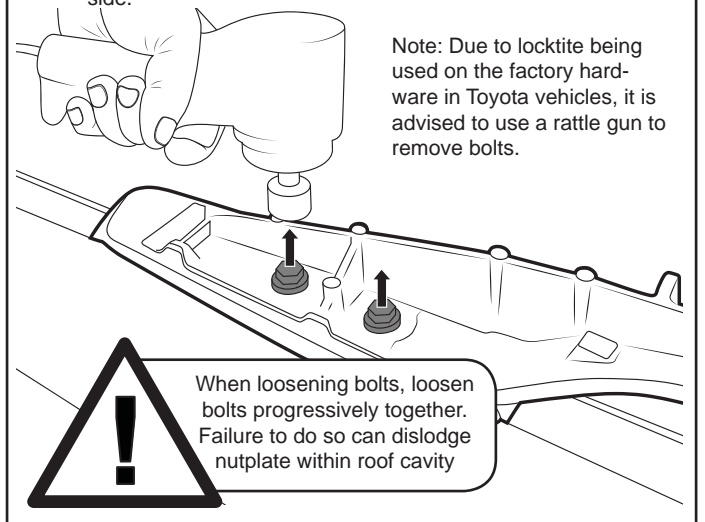
3 After the outside clips have popped out, push the front of the cover in towards the car. This will release the inside clips of the cover.



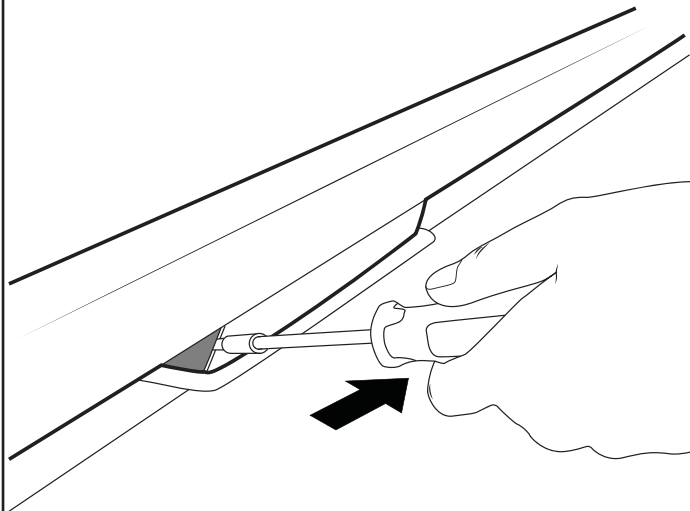
4 Once all clips have been released, pull cover forwards and up to remove completely.



5 Remove all hardware holding down roof rails. Note that these are not required to fit the Backbone, store these in a safe place. Complete steps 2-5 for front and rear covers, both left and right side.

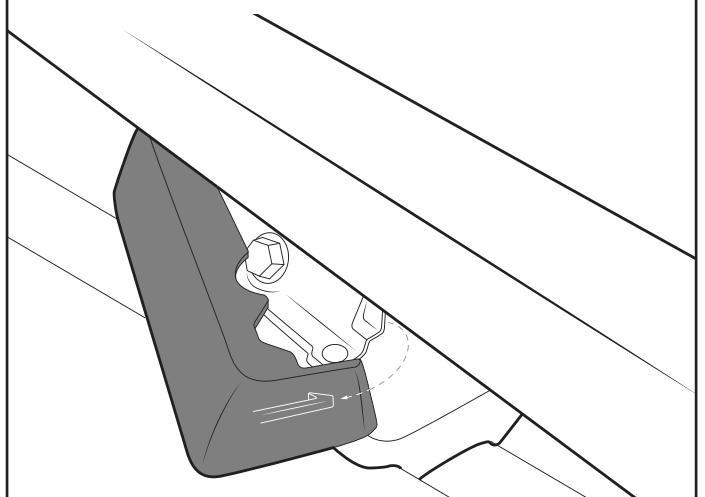


6 Move to the centre fixture of the roof rail, lean over the rail and position the flat head screwdriver as indicated in image below. Lever the case so the inside clip releases (see Step 8)



Note: View looking from centre of vehicle outwards

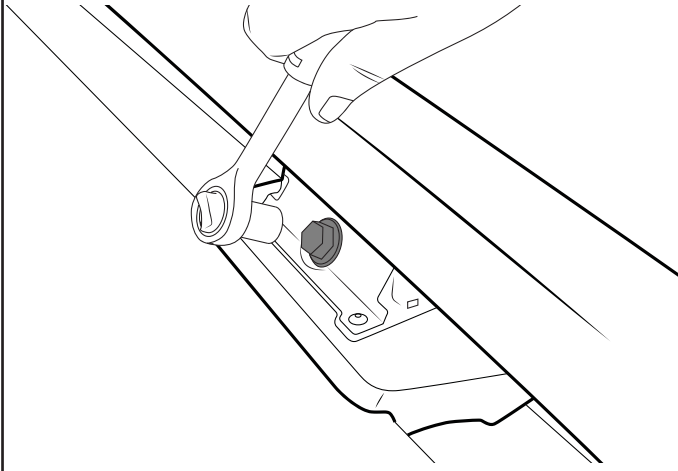
7 After one clip has released, pull outwards and remove entire car, revealing hardware fixing centre of elevated roof bars.



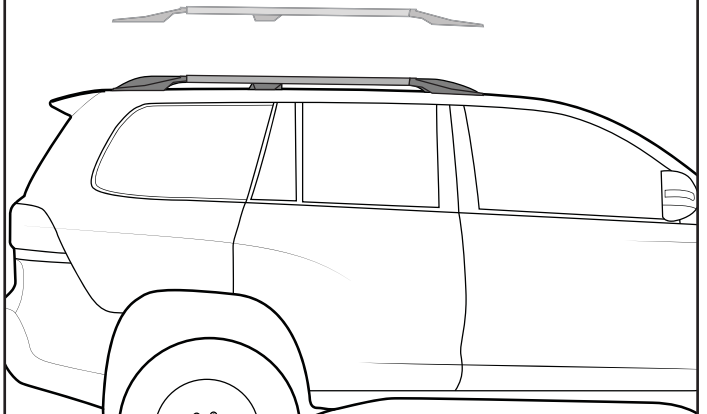
Note: View looking from outside of vehicle inwards

Toyota Land Cruiser 200 Series Short Backbone - RTLB3

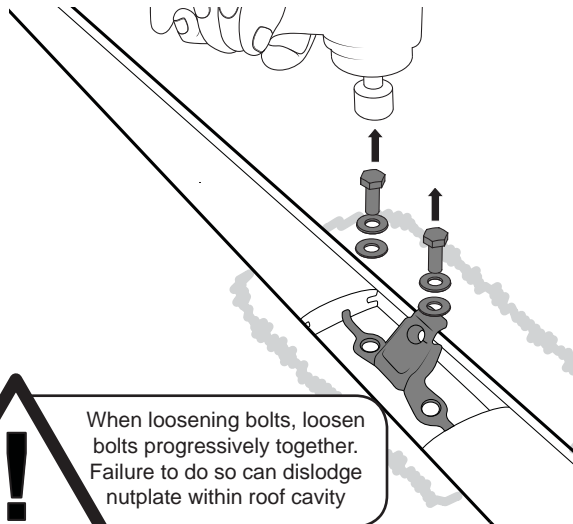
8 Remove exposed bolt completely. After removing the bolt, the roof rail is ready to be lifted carefully off of the roof. There will still be hardware to remove from the centre fixing point (see Step 10)



9 Carefully lift directly upwards and remove the elevated roof rail from the roof.

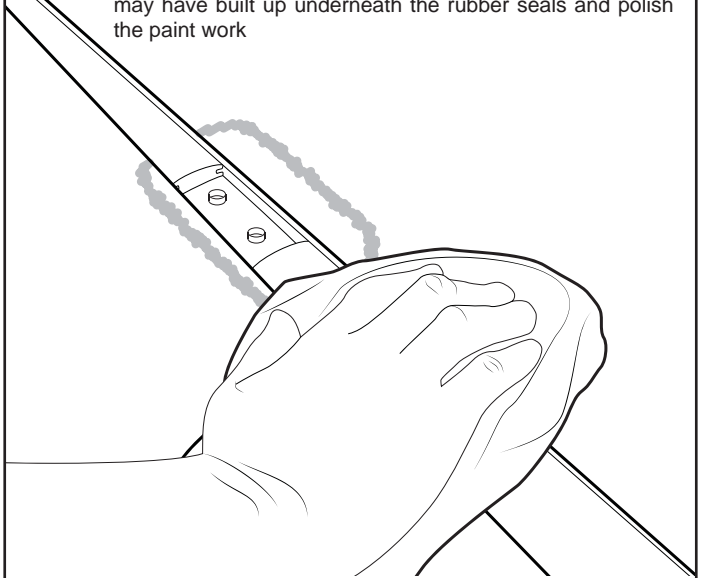


10 Once the rail has been removed, loosen and remove remaining hardware from middle fixing points.



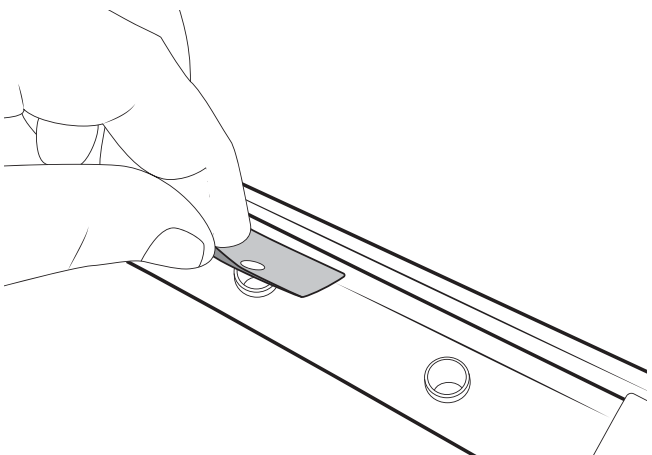
! When loosening bolts, loosen bolts progressively together. Failure to do so can dislodge nutplate within roof cavity

11 Whilst the roof is bare, take the time to remove any dirt that may have built up underneath the rubber seals and polish the paint work



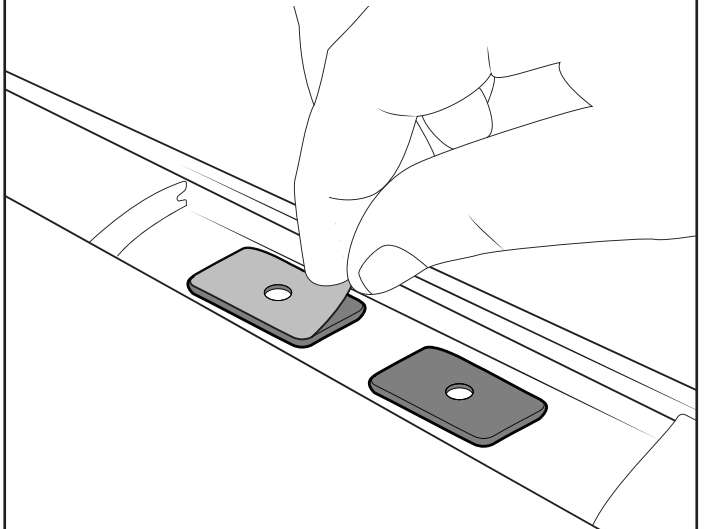
Mounting Backbone Rails and Pioneer Platform

1 Remove backing tape of the butyl patch and position over the top of mounting holes. Ensure patch has adhered to channel surface securely. Repeat this step for all 16 holes.



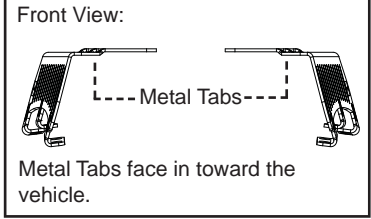
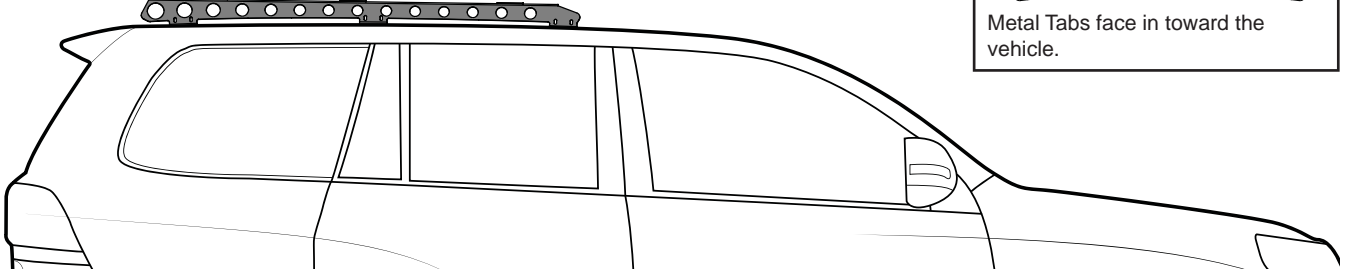
Caution: Do not apply downward force onto plastic sleeves of nutserts

2 Once all butyl patches are placed, remove top cover tape, revealing just the Butyl. This will create a watertight seal and protect the paint from metal contact.

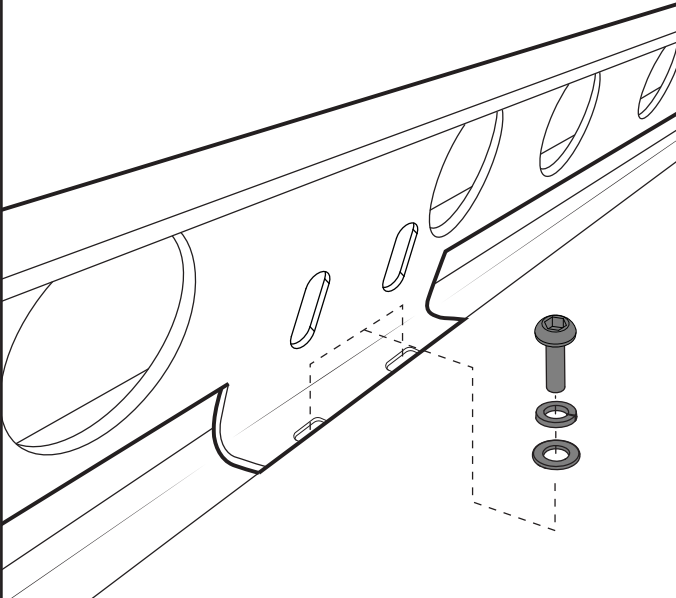


Toyota Land Cruiser 200 Series Short Backbone - RTLB3

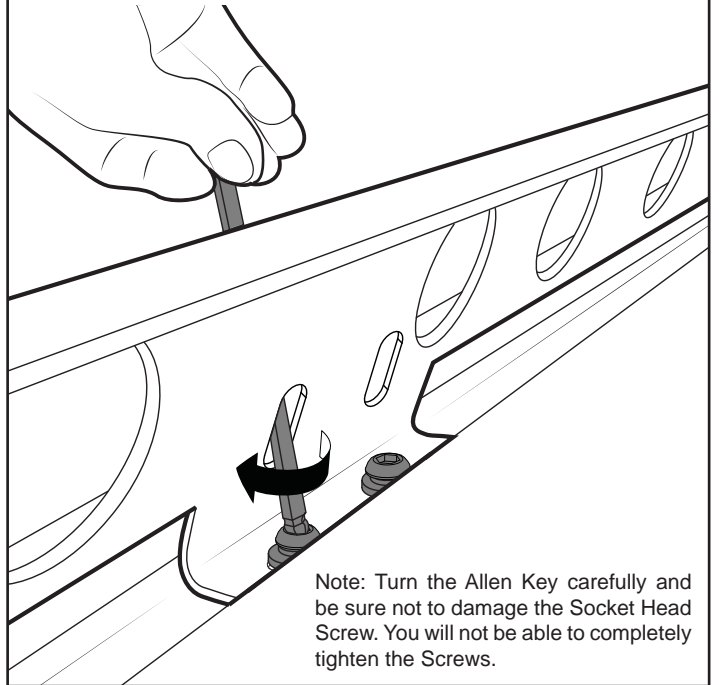
3 Place one side of the backbone onto the roof of the vehicle. Line up the mounting points of the bracket to the those exposed on the roof in the previous steps.



4 Using the M8 socket Screws, M8 Spring and Flat Washers, place the hardware into mounting holes of rails. Make sure hardware and holes align with fixed roof mounts before proceeding to Step 5.

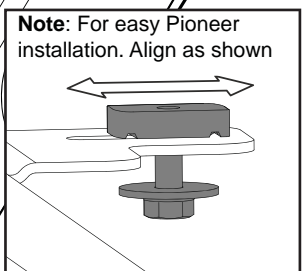
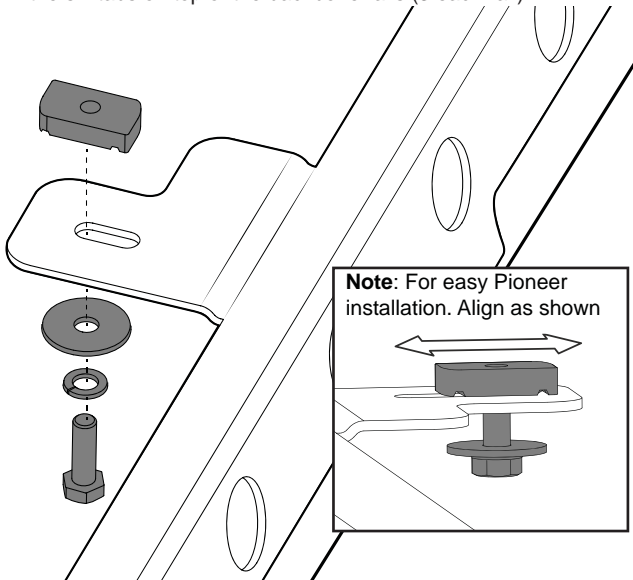


5 Start carefully securing Backbone by tightening M8 socket hardware into the roof fixed mount points with a 6mm Ball End Allen Key.

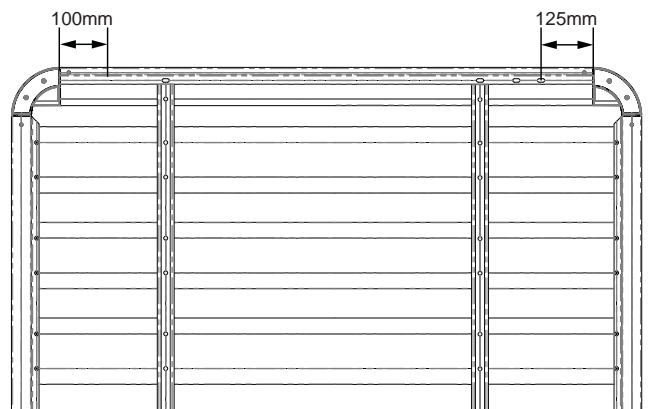


Note: Turn the Allen Key carefully and be sure not to damage the Socket Head Screw. You will not be able to completely tighten the Screws.

6 Assemble M8 hardware as pictured below. Complete this for the six tabs on top of the backbone rails (3 each rail).

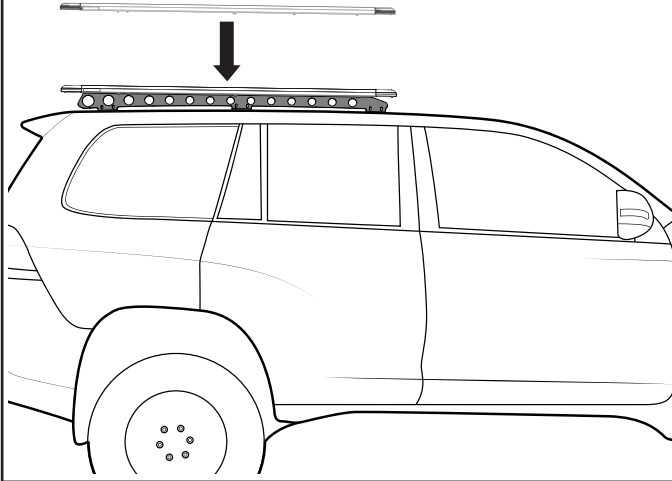


7 Install Pioneer Underbars with slots indicated
REAR: 125mm from Rear
FRONT: 100mm from Front
 The rear slot will have to be drilled with an 8.5mm drill bit. For detailed underbar installation instructions, refer to Pioneer fitting instructions.



Toyota Land Cruiser 200 Series Short Backbone - RTLB3

- 8** After underbars have been correctly fitted, place the Pioneer tray on top of the Backbone rails. Align the underbars with the top tabs and ensure the M8 hardware fits into underbar channel.



- 9** Once Pioneer underbars have been aligned properly, tighten all M8 hardware using 13mm socket wrench or 13mm spanner. Ensure channel nut has rotated within Pioneer underbar and is fixing Pioneer securely.

