



RHINO-RACK

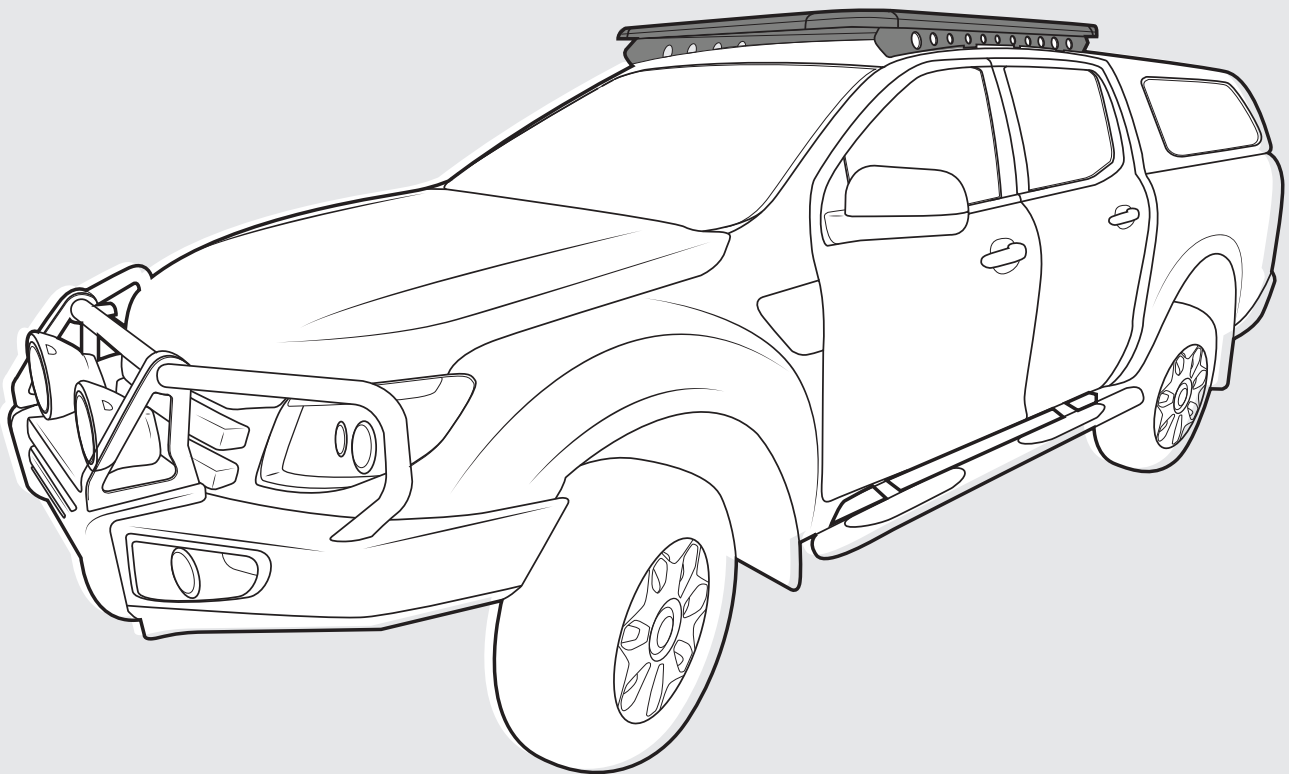
CONTROLLED

Ford Ranger/ BT-50 Backbone - RFRB1

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: 1 hour



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Issue Date: 12/10/2020

R1071 Backbone Instructions

Carrying Capacity

Max system load capacity:

Check your vehicle owners hand book for vehicle maximum carrying capacity. Please ensure you use the vehicle manufacturers maximum roof allowance if it is lower than the figure listed in this instruction.

Load must be evenly distributed over the system.

ON ROAD CARGO ALLOWANCE (OR)	OFF ROAD CARGO ALLOWANCE (OFR)	VEHICLE ROOF LOAD LIMIT (VLL)	SYSTEM WEIGHT (SW)
$(OR) = (VLL) - (SW)$	$(OFR) = \frac{(OR)}{1.5}$	100kg / 220lb (CHECK VEHICLE OWNERS HANDBOOK FOR SPECIFIC FIGURE).	5.5kg/12lbs + Platform Weight

Off Road: Any driven path taken that does not contain a surface protection layer (tar/bitumen).

Vehicle Load Limit: Total permissible weight attached to the roof of the car. This is inclusive of the weight of the roof rack system.

System Load Limit: Total permissible weight allowed on top, and attached to roof racks whilst the vehicle is in motion.

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 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 rigorous. Extreme care must be taken in off road conditions.
- Roof racks must be removed when vehicle is put through an automatic car wash.
- With utility vehicles, the cabin and the canopy move independently. Roofracks and vehicle can be damaged if the item transported is rigidly fixed at points on both the cabin and canopy. Instead, rigidly fix to either the cabin roofracks or the canopy roofracks.
- Always ensure you fasten your load securely.
- Use only non-stretch fastening ropes or straps to attach cargo to your load.

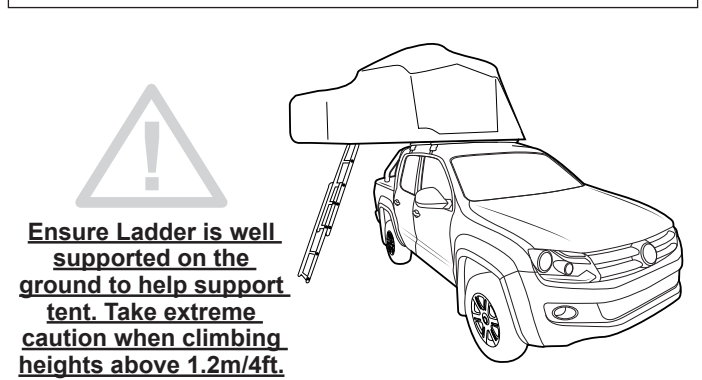
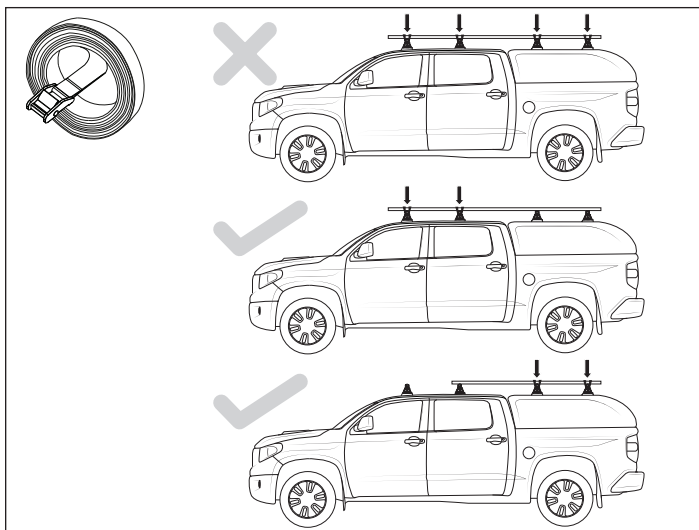
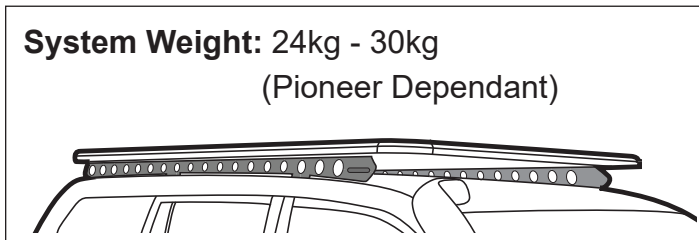
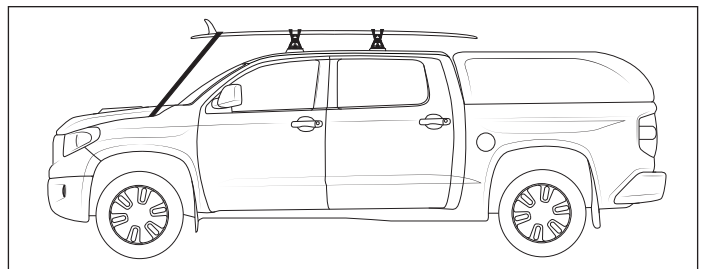
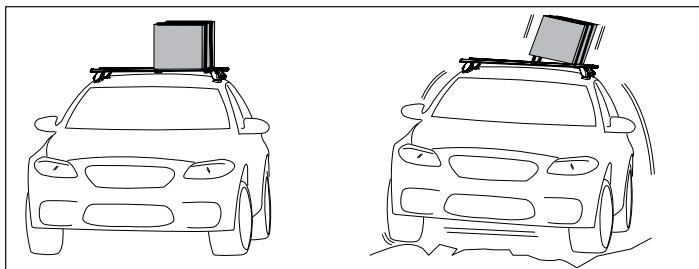
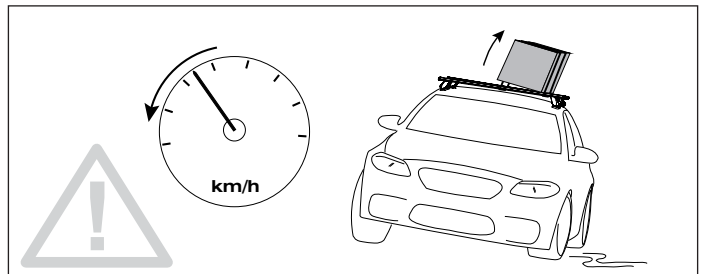
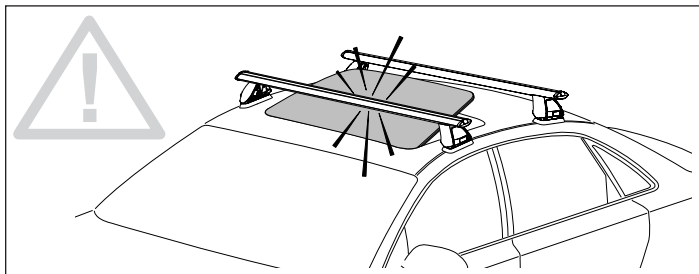
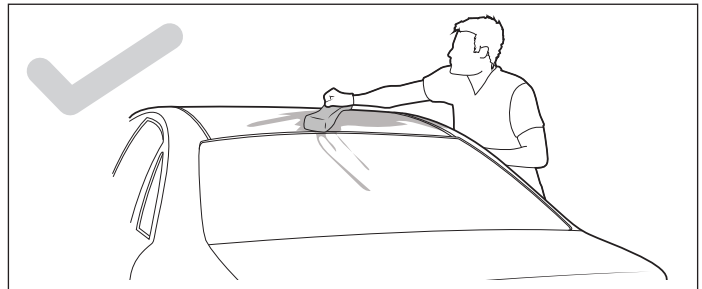
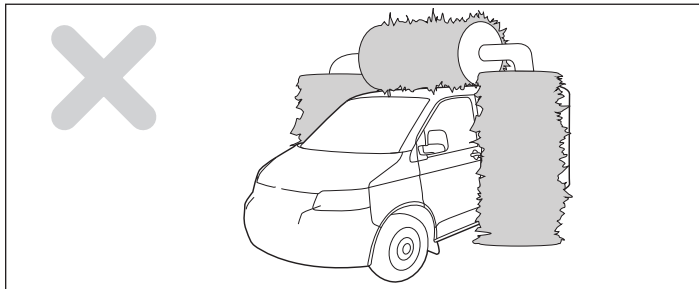
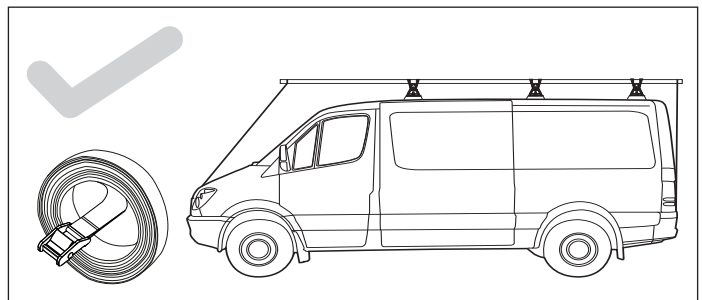
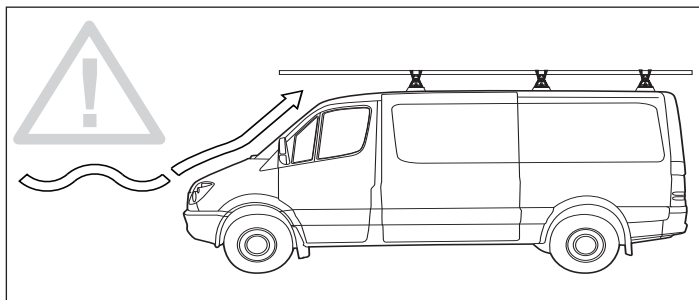
In service maintenance checks

- All bolted 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 (every 1000k (621mi) is recommended, depending on road conditions, usage, loads and distances travelled).
- All bolted connections should be checked each time they are re-fitted.

Note for Dealers and Fitters

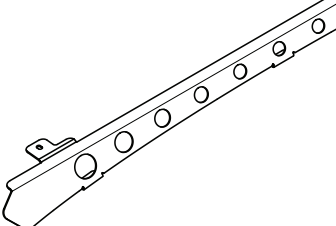
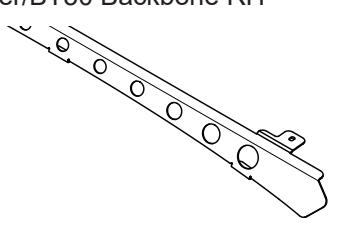
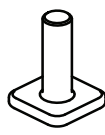


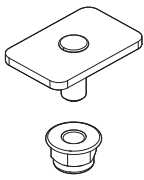





It is your responsibility to ensure these fitting instructions are given to the end user or client. These instructions remain the property of Rhino-Rack Australia Pty. Ltd. and may not be used or changed for any other purpose than intended.

R1071 Backbone Instructions



R1071 Backbone Instructions

Parts List

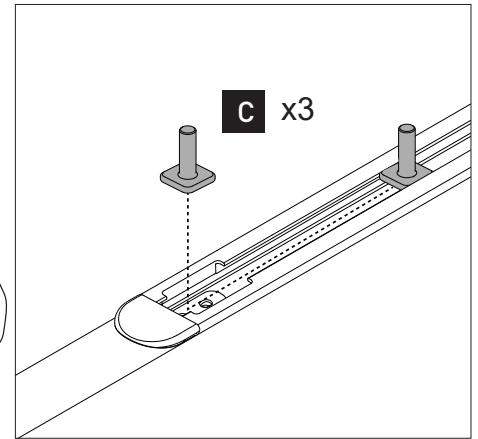
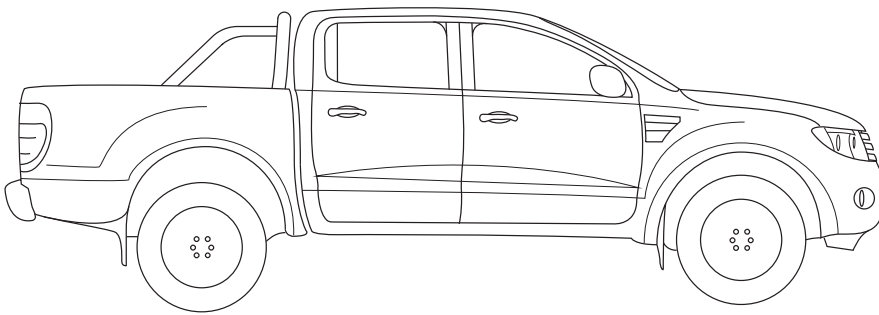
<p>Ranger/BT50 Backbone LH</p>  <p>A x1</p>	<p>Ranger/BT50 Backbone RH</p>  <p>B x1</p>	<p>M6 x 16mm T - Bolt</p>  <p>C x6</p>
<p>M6x16mm Flat Washer</p>  <p>D x6</p>	<p>M6 Nyloc Nut</p>  <p>E x6</p>	<p>Pioneer NG to Backbone Bolt Kit <i>For 5XXXX Pioneer only</i></p>  <p>F x4</p>
<p>M8x20mm Hex Setscrew <i>For 4XXXX Pioneer only</i></p>  <p>G x4</p>	<p>M8 Spring Washer <i>For 4XXXX Pioneer only</i></p>  <p>H x4</p>	<p>M8x19x2.5 Flat Washer <i>For 4XXXX Pioneer only</i></p>  <p>I x4</p>
<p>M8 Channel Nut <i>For 4XXXX Pioneer only</i></p>  <p>J x4</p>	<p>Instructions</p>  <p>K x1</p>	

Tools Required

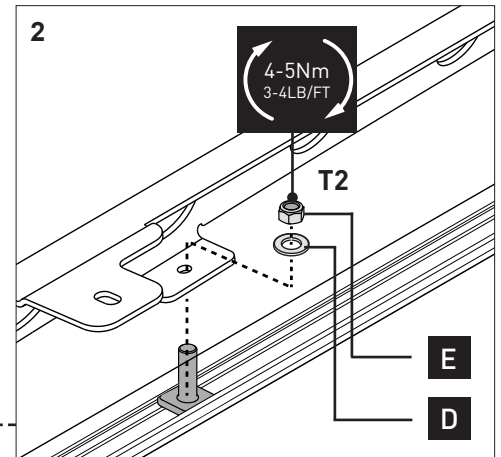
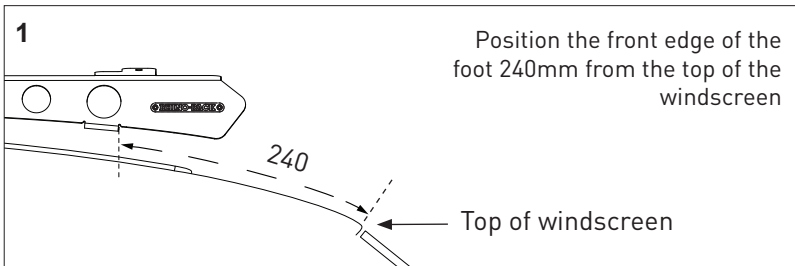
- T1. 13mm Socket Wrench
- T2. 10mm Spanner
- T3. Power drill with 8.5mm drill bit (4XXXX series Pioneers only)

R1071 Backbone Instructions

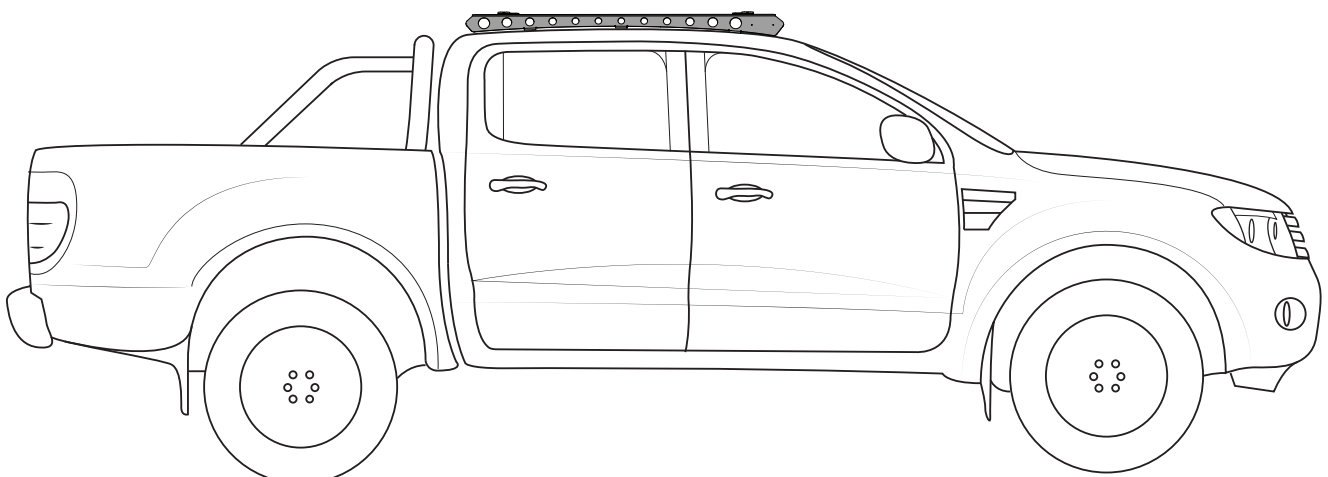
- 1** Move to the rear of the installed Tracks. Slide 3x M6 T-Bolts into each Track.



- 2** 1: Place the Backbone onto the Track.
2: Fix in place with M6 x Flat Washer and M6 Nyloc Nut. Tighten Nyloc Nut to 4-5Nm with 10mm Spanner



- 3** Repeat previous steps for securing opposite side Backbone rail. Ensure both assemblies are securely positioned on the car. Check each bolt before proceeding to attaching the Pioneer Platform to the Backbone.



4 PIONEER FIT CHART

Example

RHINO-RACK PIONEER NG - VEHICLE FITTING INFORMATION
52101B / 52101BF

APPLICABLE VEHICLES

VEHICLE	CONNECTOR	IMPORTANT NOTES
TOYOTA Land Cruiser 102/118 Double Cab	RL100511	

Vehicle Load Limit	System Weight	On-Road Cargo Allowance	Off-Road Cargo Allowance
100			

Region	APD	RZ	USA	CA	EU	SA	ZA
RECOMMENDED	Apr-19						

UNDERBAR SPACING

Note for Dealers and Fitters:
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5 FOR 5XXXX PIONEER SERIES

Repeat for the four tabs on top of the backbone rails (2 each rail).

15-20Nm
11-14LB/FT

T1

6a FOR 4XXXX PIONEER SERIES

Repeat for the four tabs on top of the backbone rails (2 each rail).

T1

I

H

G

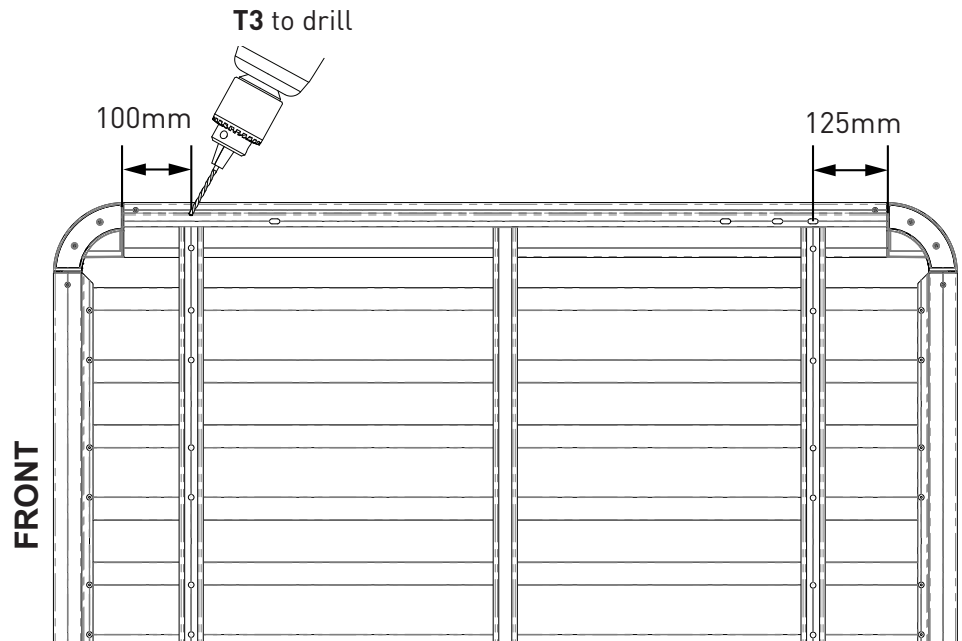
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R1071 Backbone Instructions

6b

Install Pioneer Underbars with slots indicated (42100)
FRONT: 100mm from Front (drill)
REAR: 125mm from Rear (using slots)

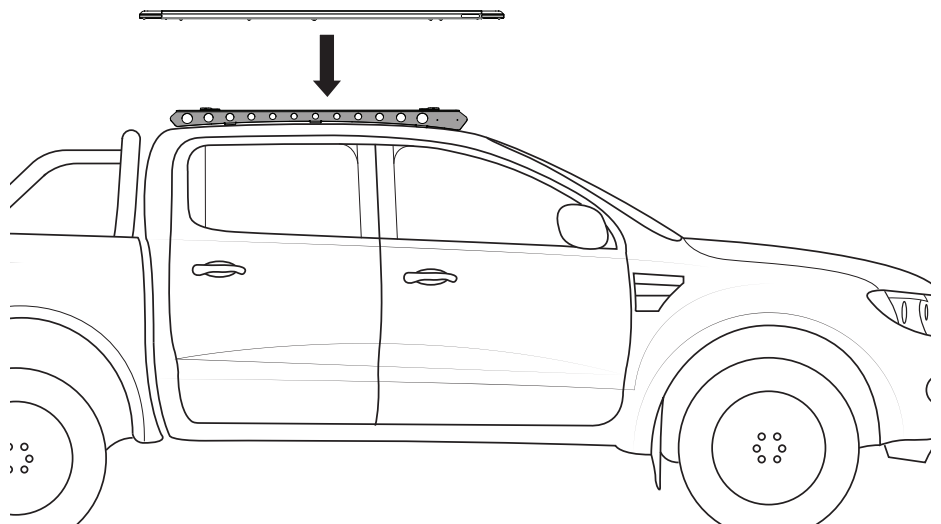
The front slot will have to be drilled with an 8.5mm drill bit. For detailed underbar installation instructions, refer to Pioneer fitting instructions.



6c

After underbars have been correctly fitted, place the Pioneer Platform on top of the Backbone.

Align the underbars with the top tabs and ensure the M8 hardware fits into underbar channel.

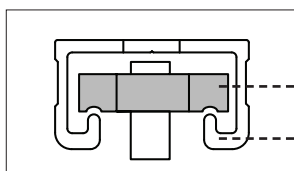
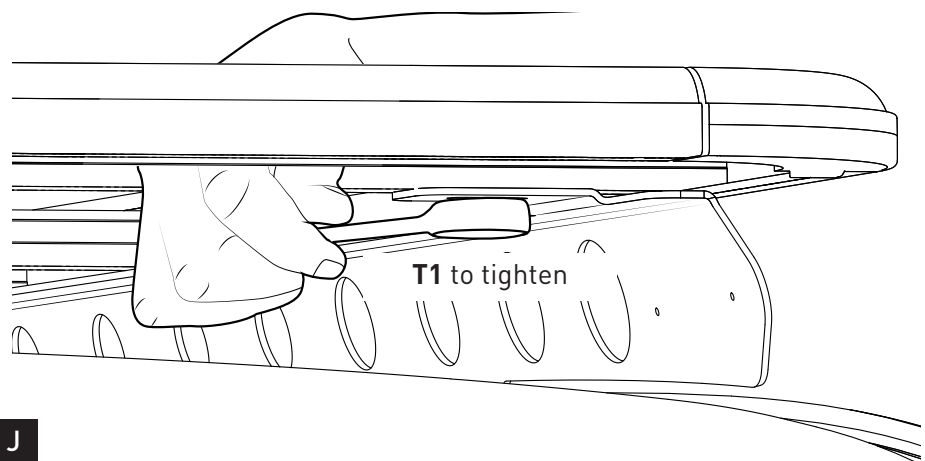


6d

Tighten all M8 hardware using 13mm socket wrench or spanner.

IMPORTANT

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



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Pioneer Underbar