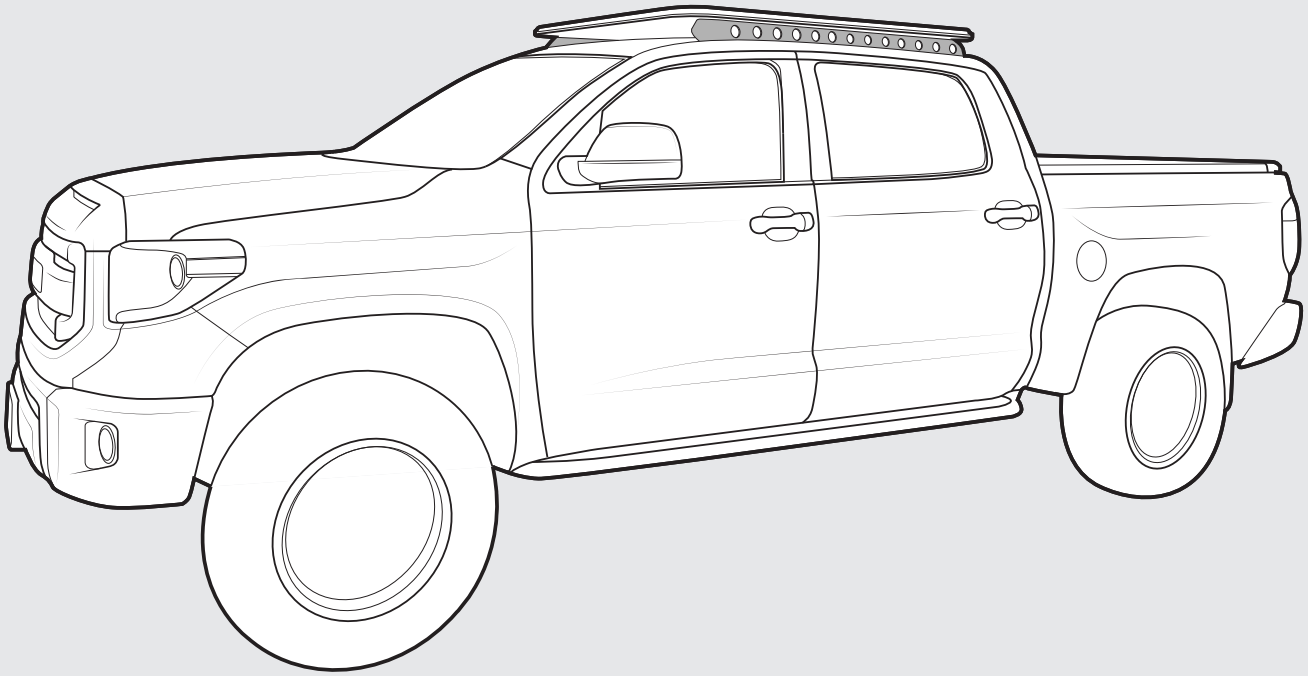
Toyota Tundra Crewmax Backbone

RTTB2

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: 5mins



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Eastern Creek, NSW, 2766
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Aurora, CO, 80011
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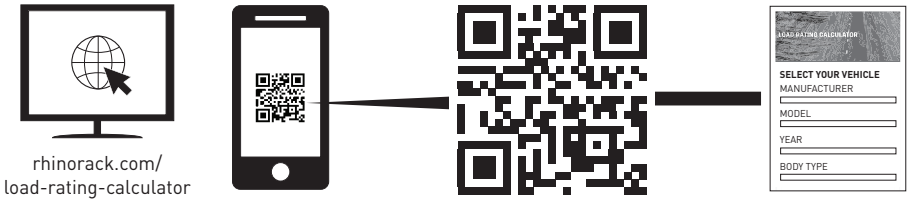
rhinorack.com

Doc. No: R1771
Issue No: 05
Issue Date: 09/12/2021

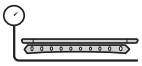
Carrying Capacity

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.

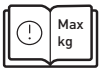


System Weight

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

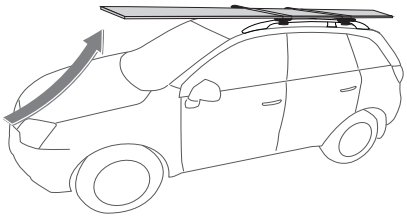
- All bolt connections should be checked after driving a short distance when you first install your roof racks.
- All bolted connections should be checked again at regular intervals (weekly is recommended, depending on road conditions, usage, loads and distances travelled).
- All bolted connections should 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).

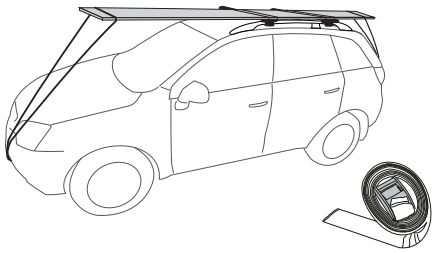
Torque Settings

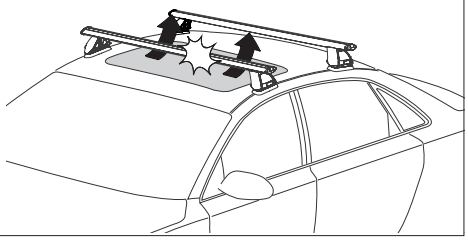
Unless stated otherwise in these instructions, all fasteners should be set to the following torque settings:
M6: 4-5Nm (3-4lbs/ft),
M8: 8-10Nm (6-7.5lbs/ft)
M10: 16-18Nm (12-13lbs/ft).

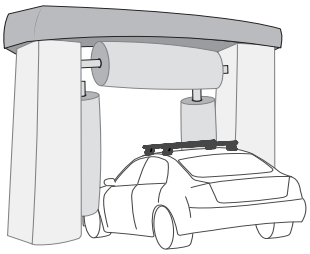
Note for Dealers and Fitters

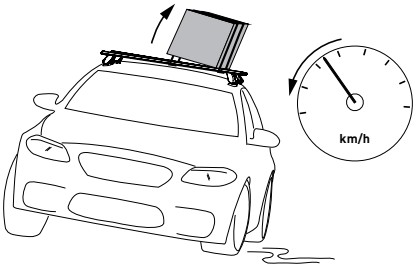
It is your responsibility to ensure these fitting instructions are given to the end user or client. These instructions remain the property of Rhino-Rack Australia Pty. Ltd. and may not be used or changed for any other purpose than intended.

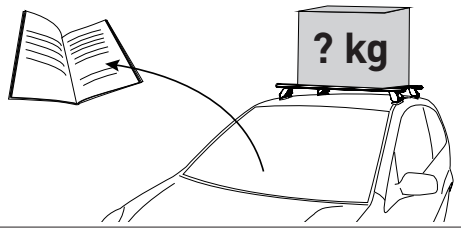






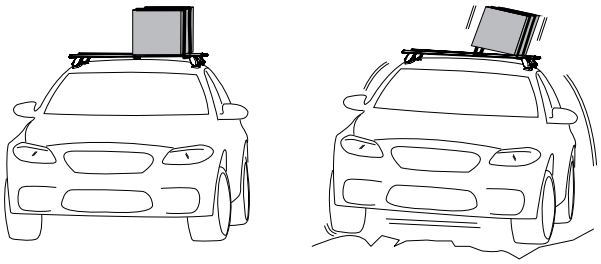




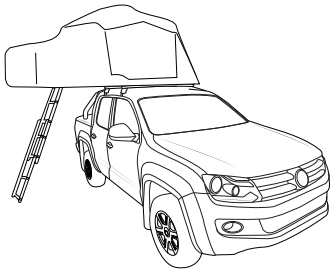


The handling characteristics of the vehicle changes when a load is transported on the roof. Exercise extreme care when transporting wind-resistant loads. Special consideration must be taken when cornering and braking.

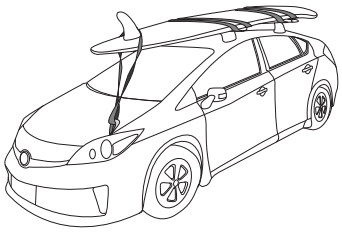
Off-road conditions can be much more rigourous. Extreme care must be taken in off-road conditions.



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

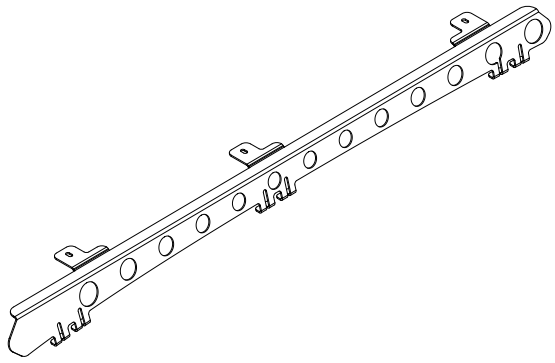


Paddle/ Surfboards should be fixed to the front of the vehicle.



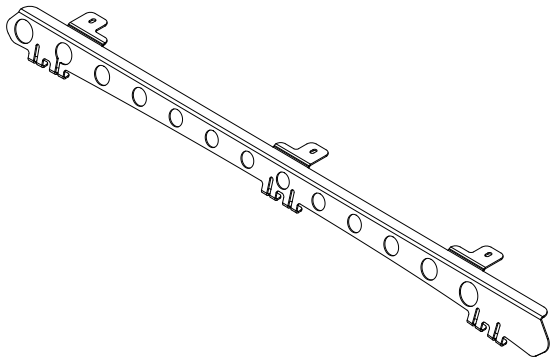
Parts List

Backbone Left

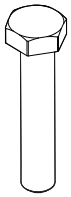


A x1

Backbone Right

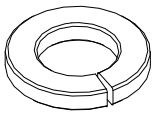


M6 x 20mm Socket Head Screw



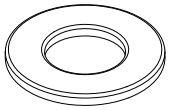
C x12

M6 Spring Washer



D x12

M6 x 12.5 Flat Washer

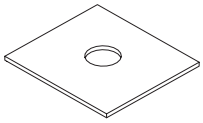


E x12

M6 Rivnut

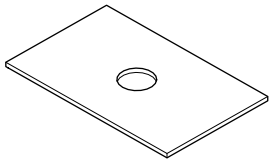
F x12

20 x 20 Butyl Patch



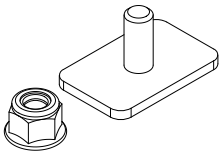
G x12

40 x 25 Butyl Patch



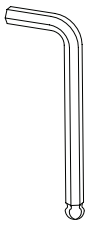
H x12

Pioneer NG Bolt Kit
(For 5XXXX Pioneer only)



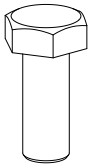
I x6

Allen Key



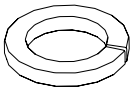
J x1

M8 x 20mm Hex SetScrew
(For 4XXXX Pioneer only)



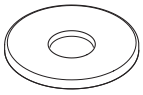
K x6

M8 Spring Washer
(For 4XXXX Pioneer only)



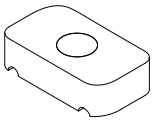
L x6

M8 Flat Washer
(For 4XXXX Pioneer only)



M x6

M8 Channel Nut
(For 4XXXX Pioneer only)



N x6

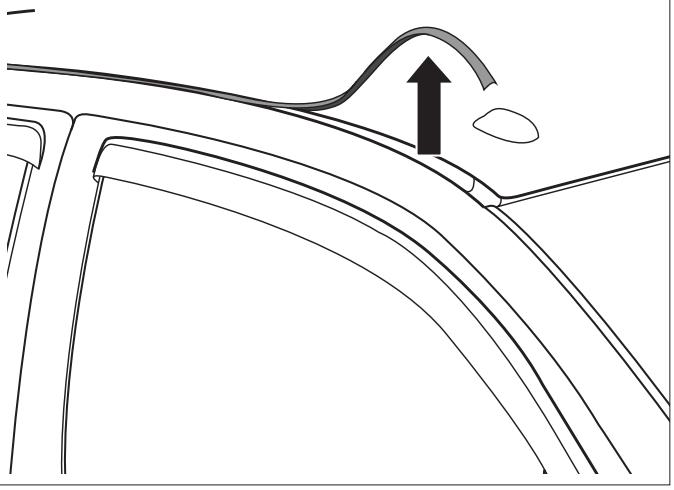
Instruction

O x1

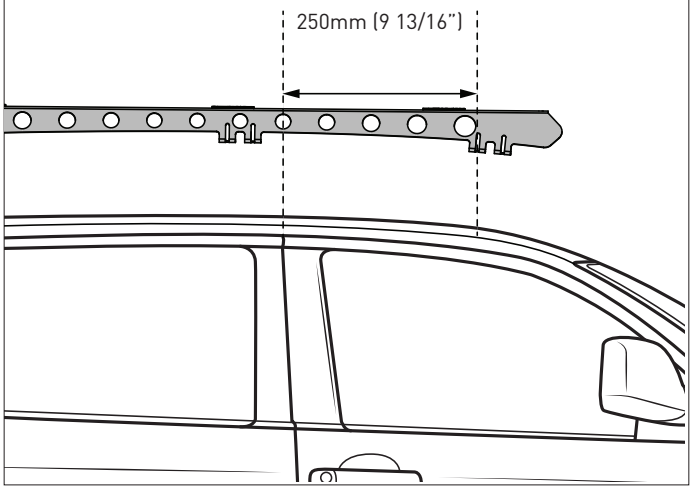
Tools Required:

T1 - Power Drill
T2 - Centre Punch
T3 - 3mm Drill Bit
T4 - 9mm Drill Bit
T5 - Measuring Tape
T6 - Marker
T7 - Metric Rivnut Tool
T8 - Drill Stop
T9 - Cold Galvanising Paint & Cotton Tips
T10 - 13mm Wrench
T11 - Mallet
T12 - Vacuum

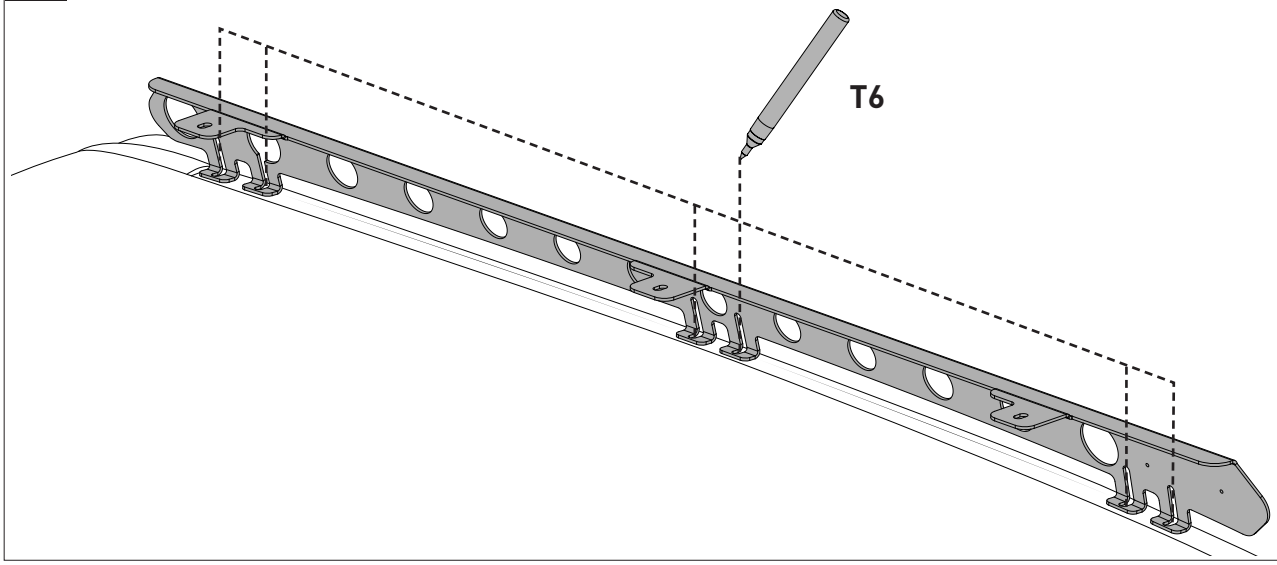
1 Remove the rubber covering the roof ditch.
A small section will remain at the rear of the vehicle



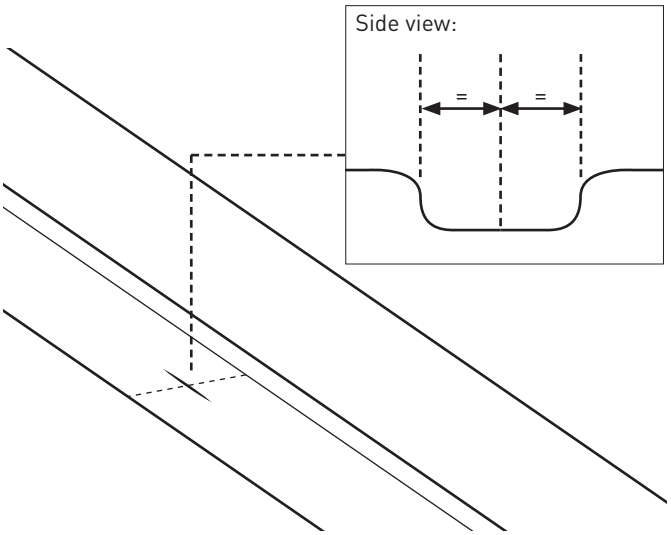
2 Place the Backbone into the roof ditch. Line the second slot in the front foot, 250mm (9 13/16") from the door jamb as shown.



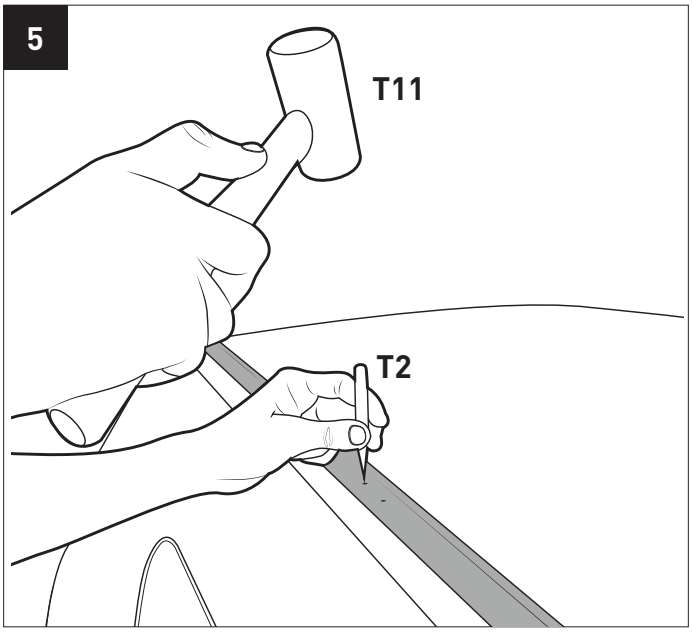
3 Mark through the centre of each hole in the feet of the backbone.



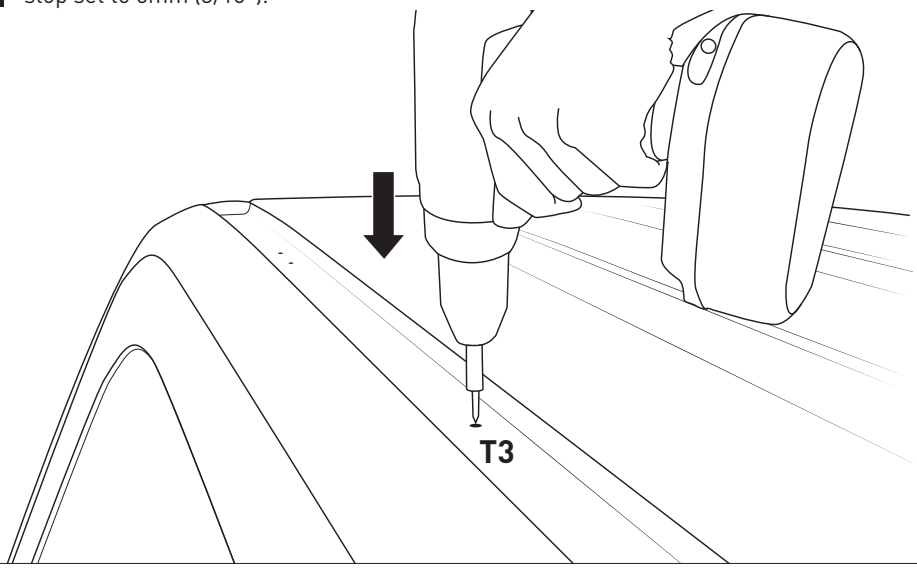
4 Remove the backbone. Find the centre of the ditch at each of the references made previous and re-mark

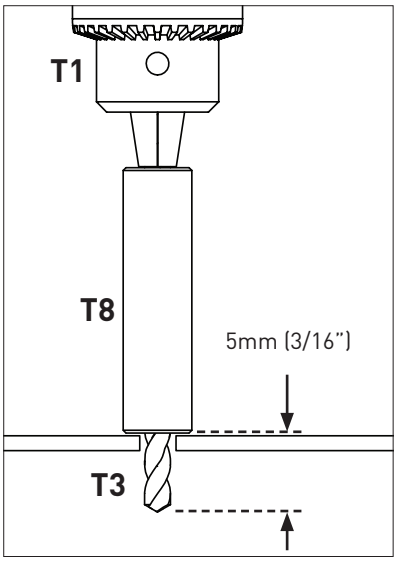


5

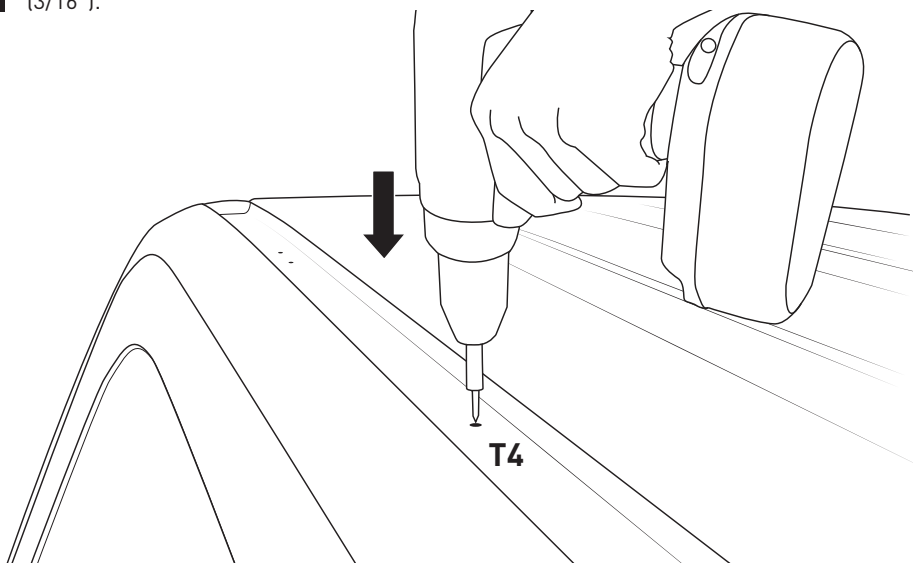


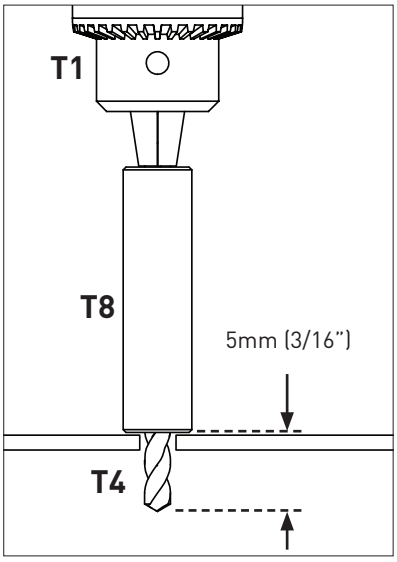
6 Drill a pilot hole through the marked references with a 3mm (1/8") drill bit and a drill stop set to 5mm (3/16").



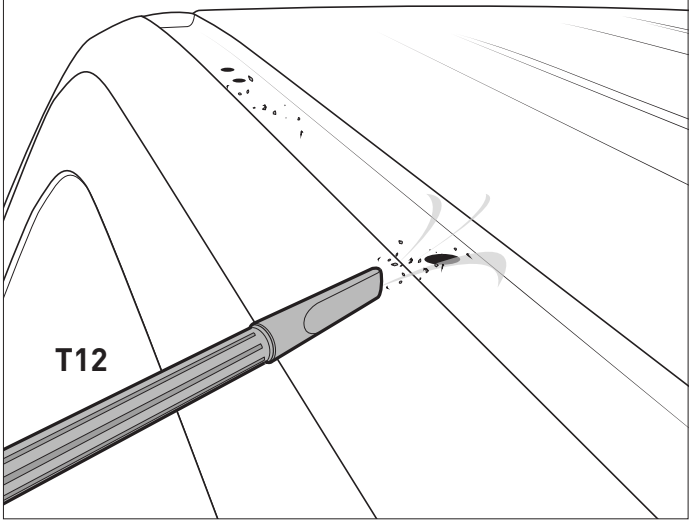


7 Widen the hole to 9mm (3/8") through the 3mm hole. Use a drill stop set to 5mm (3/16").

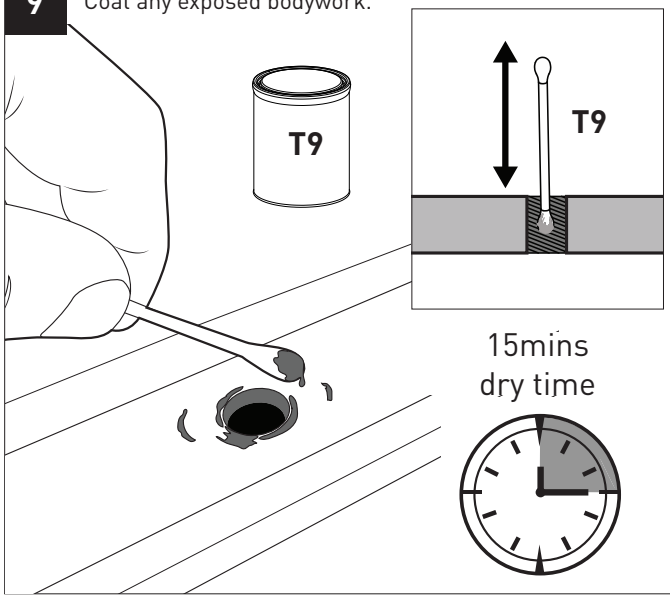




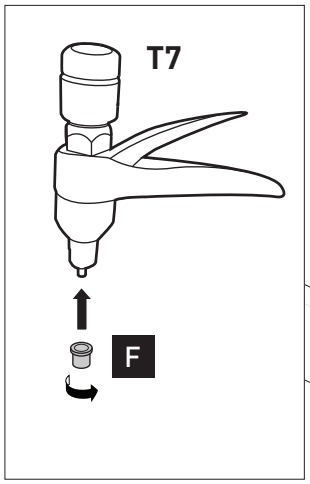
8 Vacuum any swarf from the roof of the vehicle.

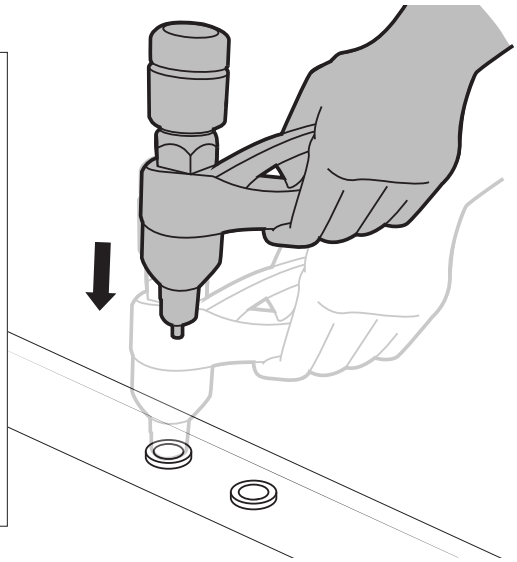


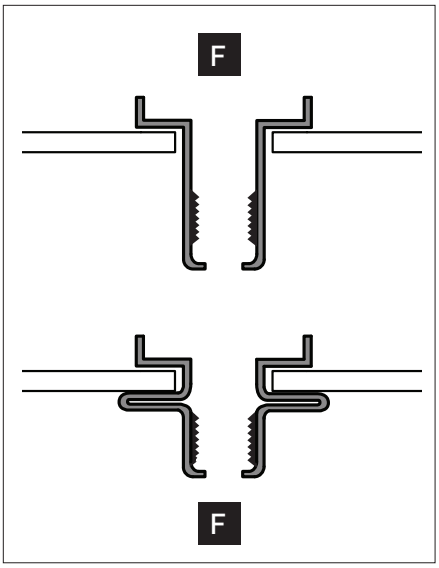
9 Coat any exposed bodywork.



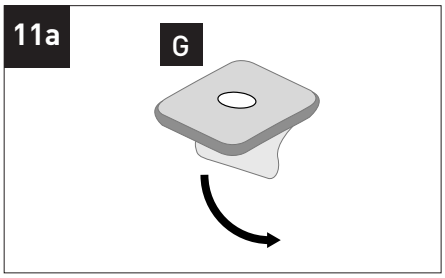
10 Install M6 rivnuts into all holes drilled.

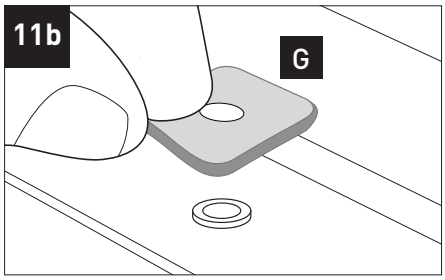


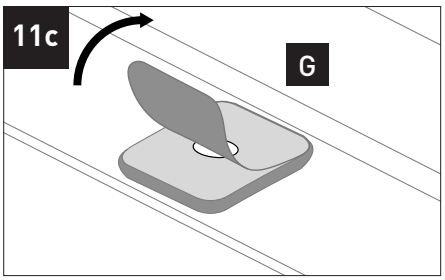


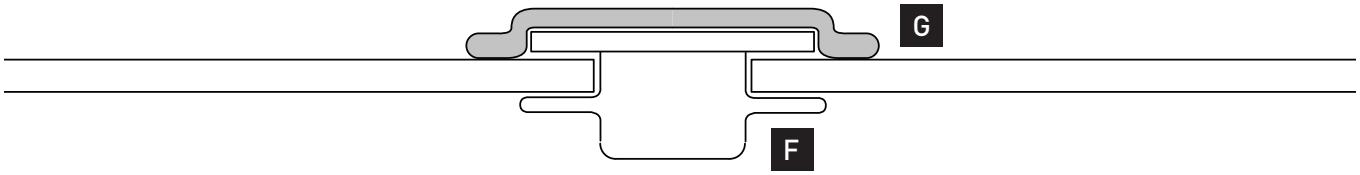


11 Adhere butyl patches over all M6 Rivnuts and ensure the butyl patch completely seals the rivnut.

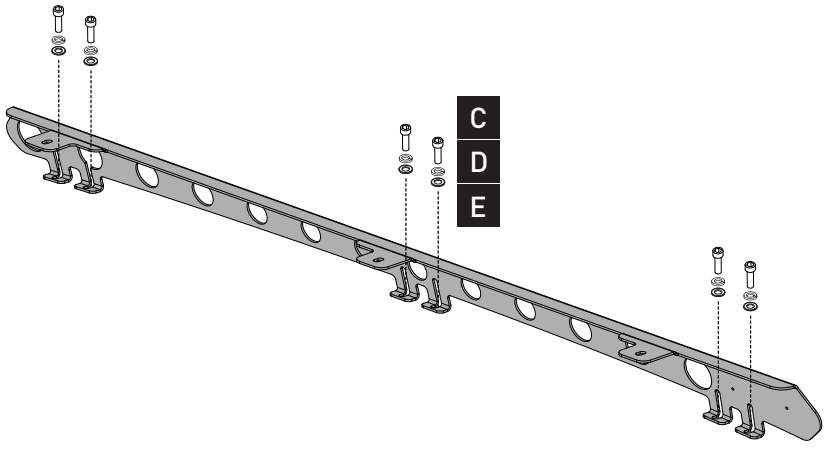


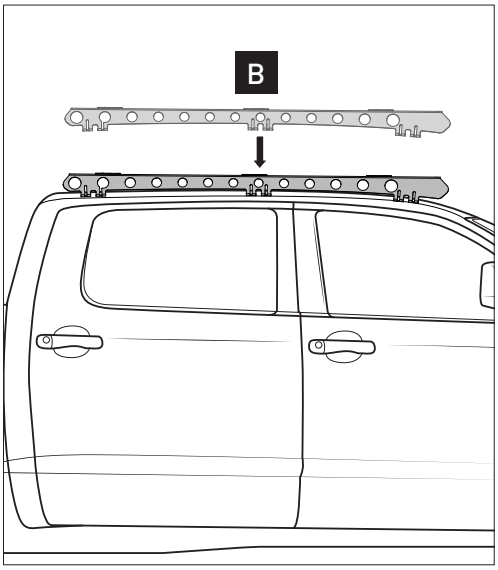




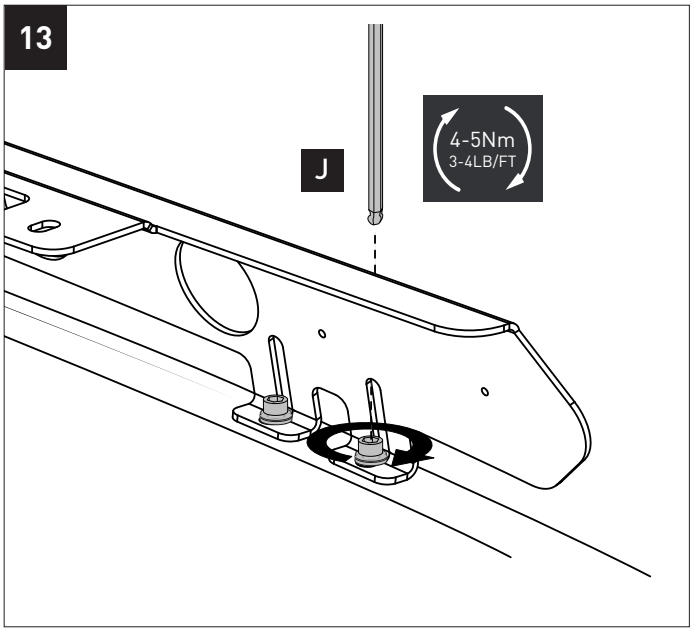


12 Assemble hardware to backbone and place the assembly onto the roof.

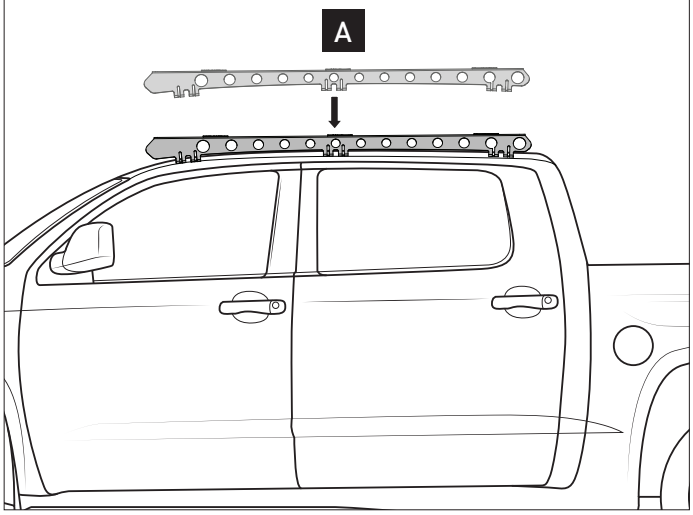




13

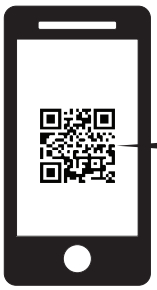


14 Repeat steps **1** - **13** to the opposite side of the roof.

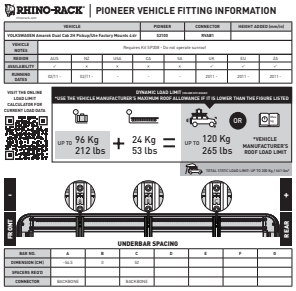


15 PLATFORM INSTALLATION

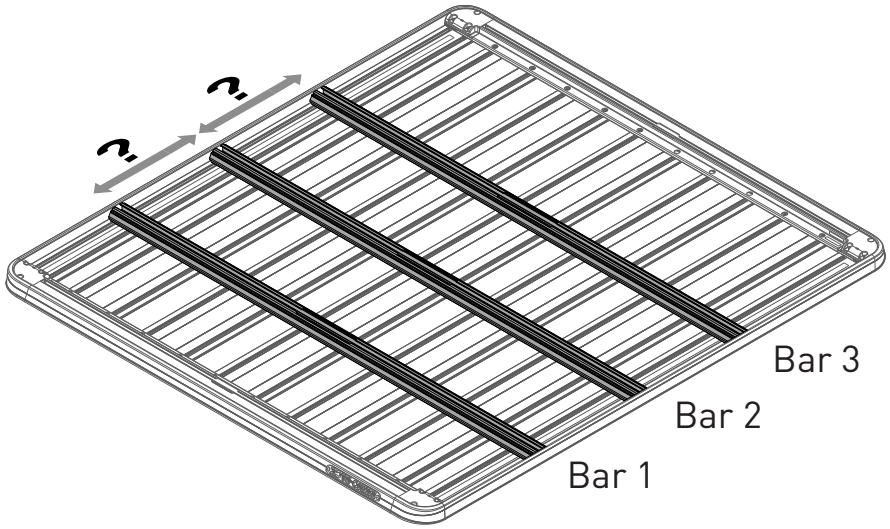
rhinorack.com/roof



EXAMPLE ONLY

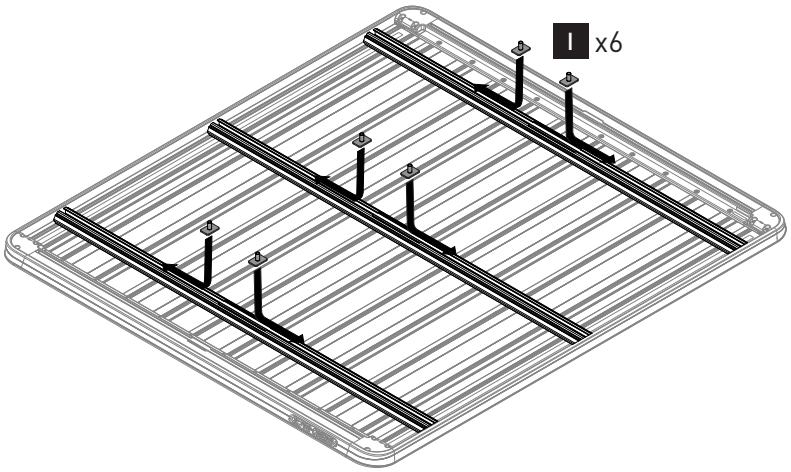


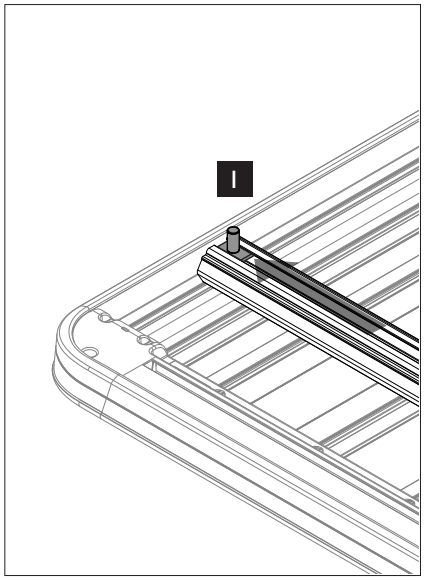
View Fitting Chart



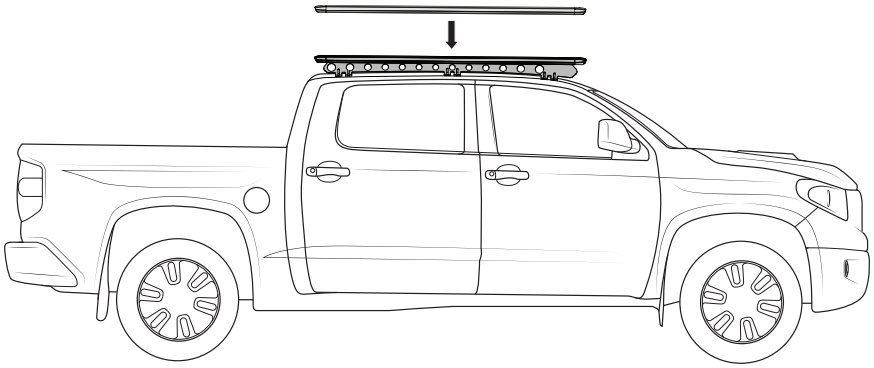
Pioneer Platform sold separately

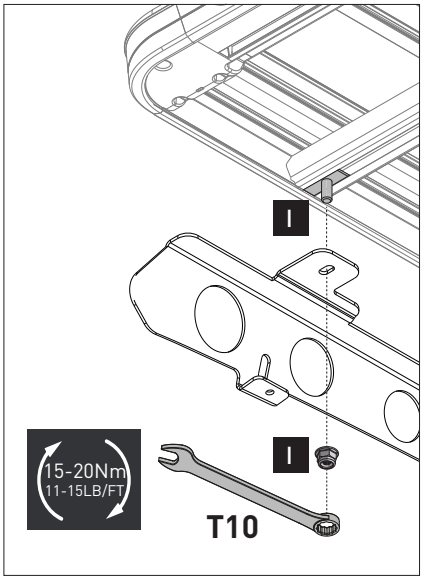
16 For 5XXXX Series Platform



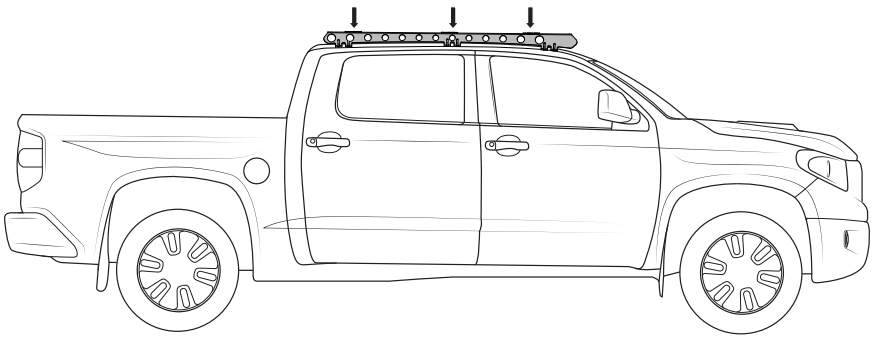


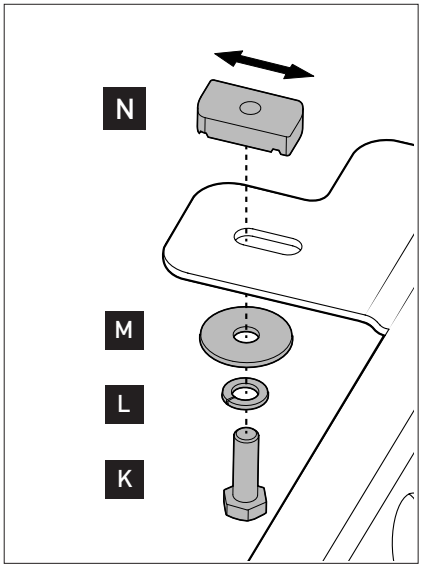
17 For 5XXXX Series Platform



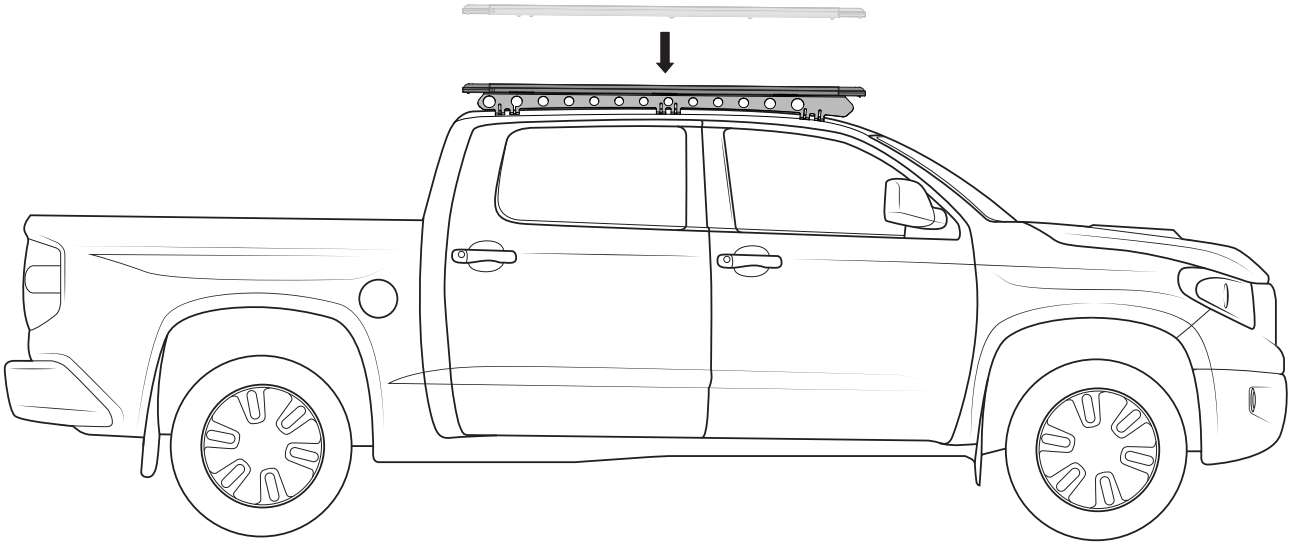


18 For 4XXXX Series Platform

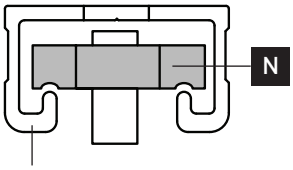




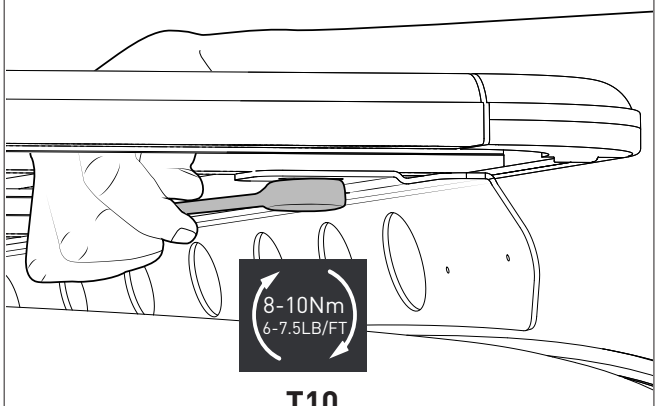
19 For 4XXXX Series Platform



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



Pioneer underbar



T10