

# RHINO-RACK®

## FORD Ranger P703 Double Cab / VOLKSWAGEN Amarok Gen2 Backbone

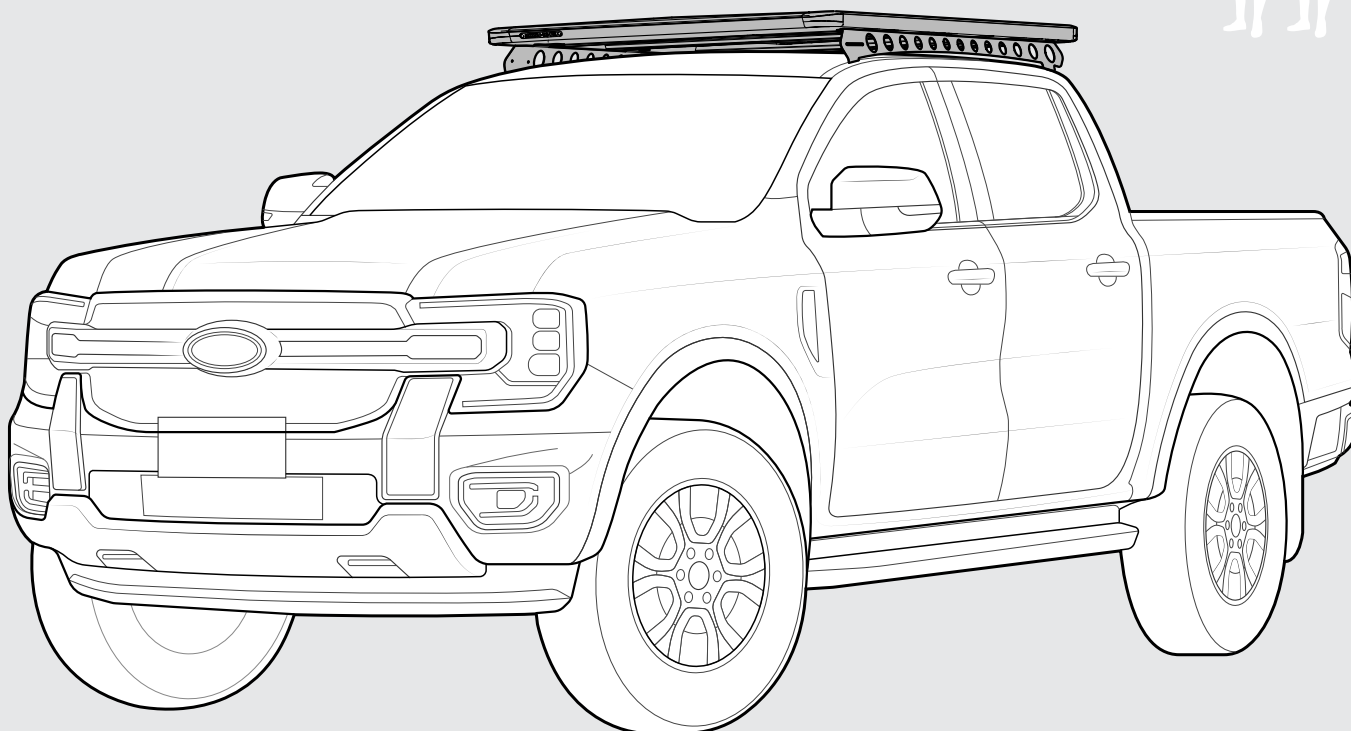
RFRB3

**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 accessory is installed in the correctly.
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:** 150mins

TWO-PERSON  
INSTALLATION

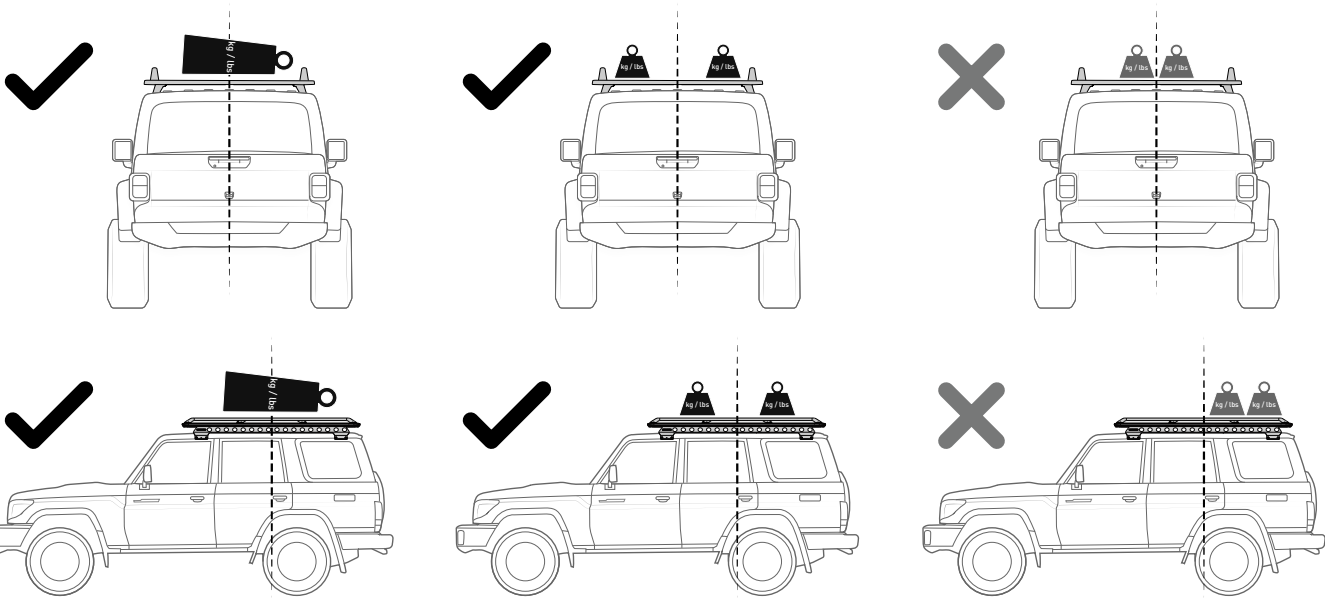


**RHINORACK.COM**

Document No: 520-RFI-00089

Issue No: 04

Issue Date: 09/08/2023

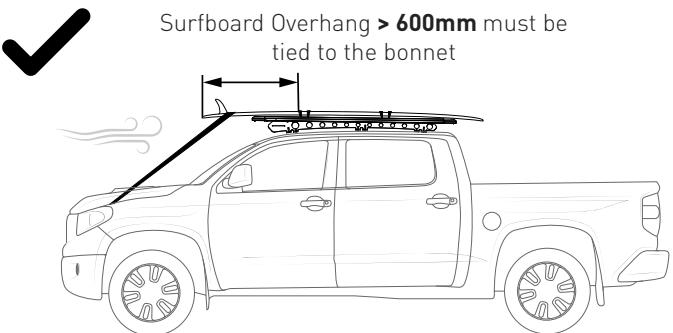
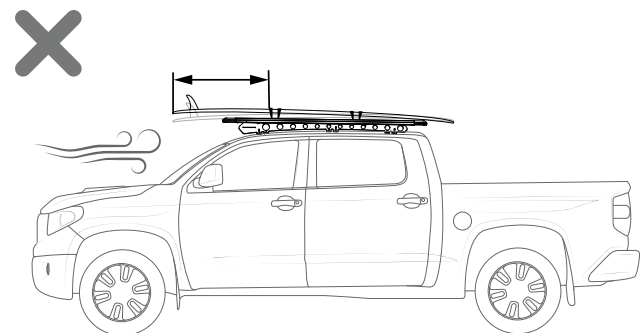
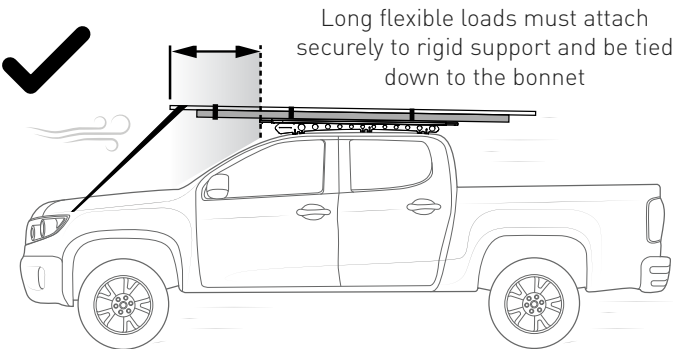
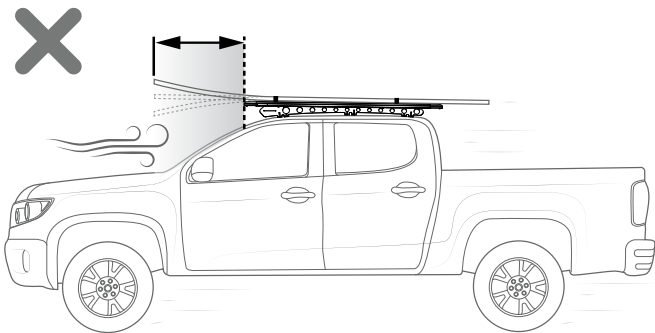
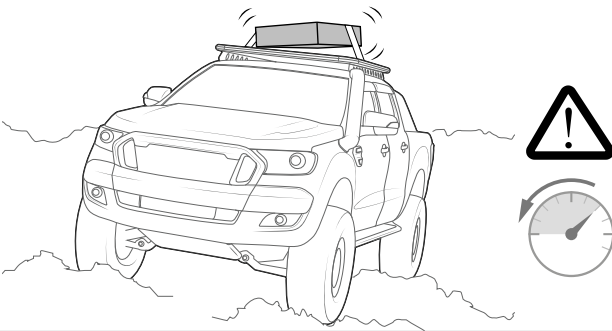
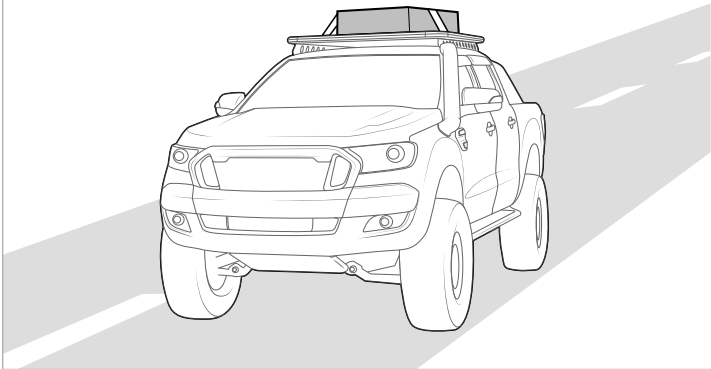


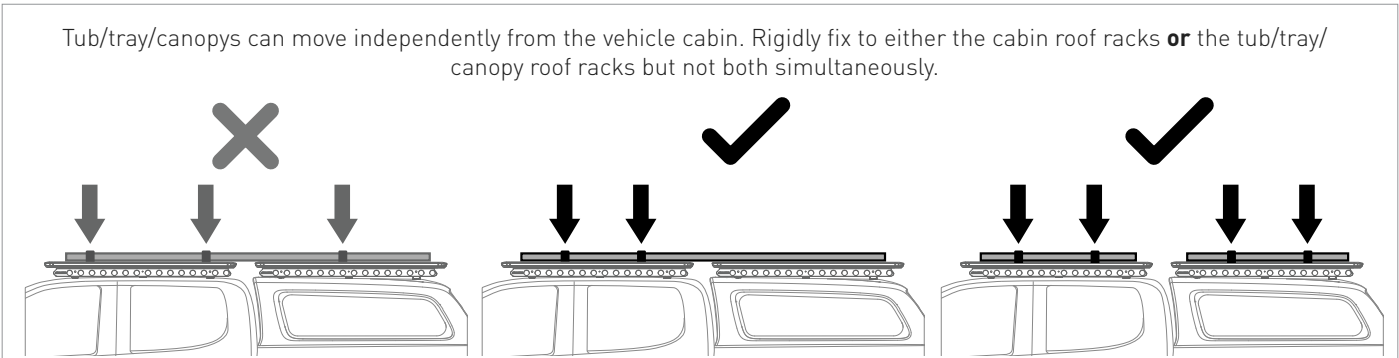
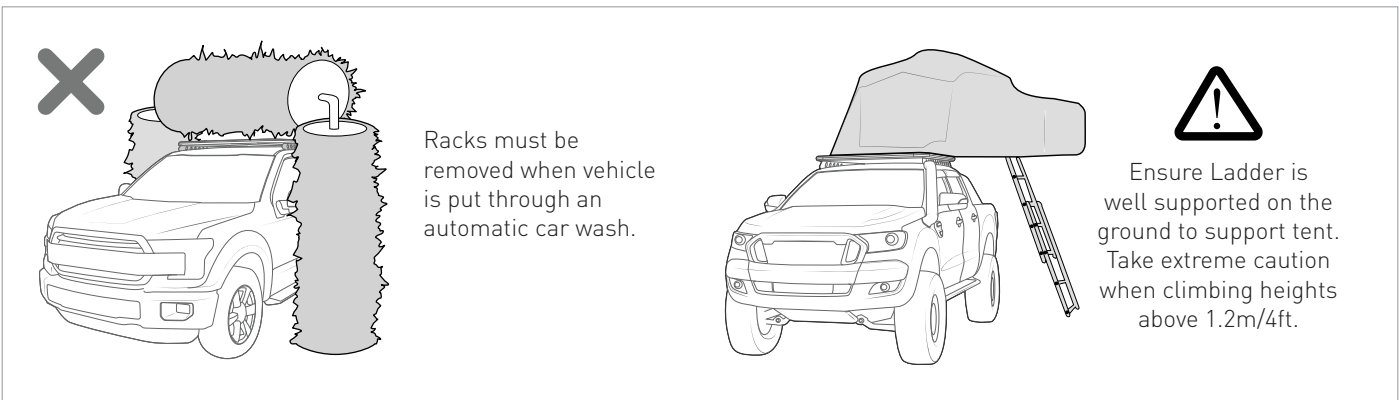
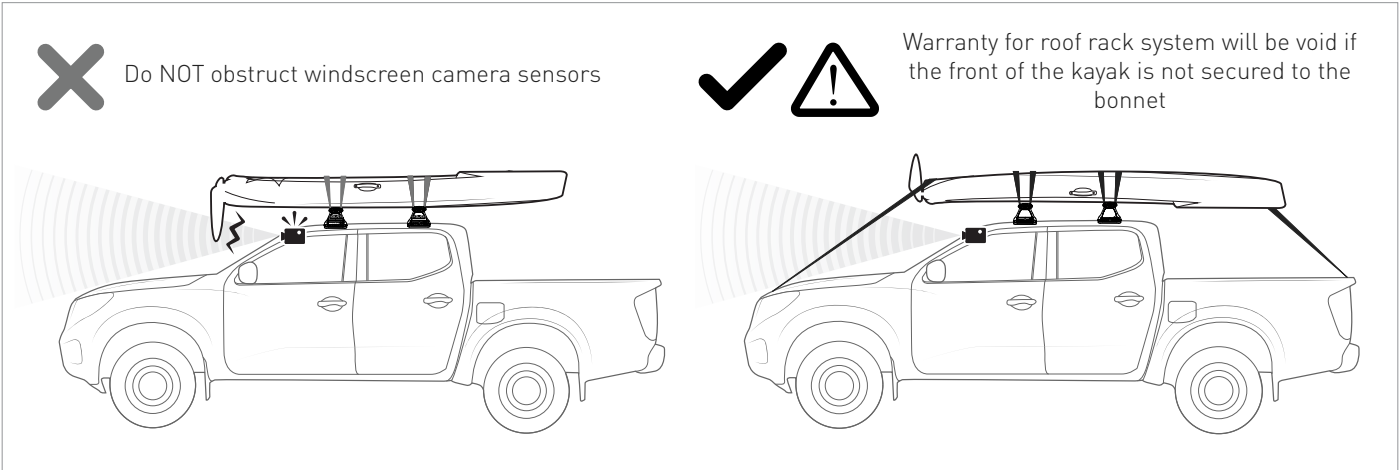
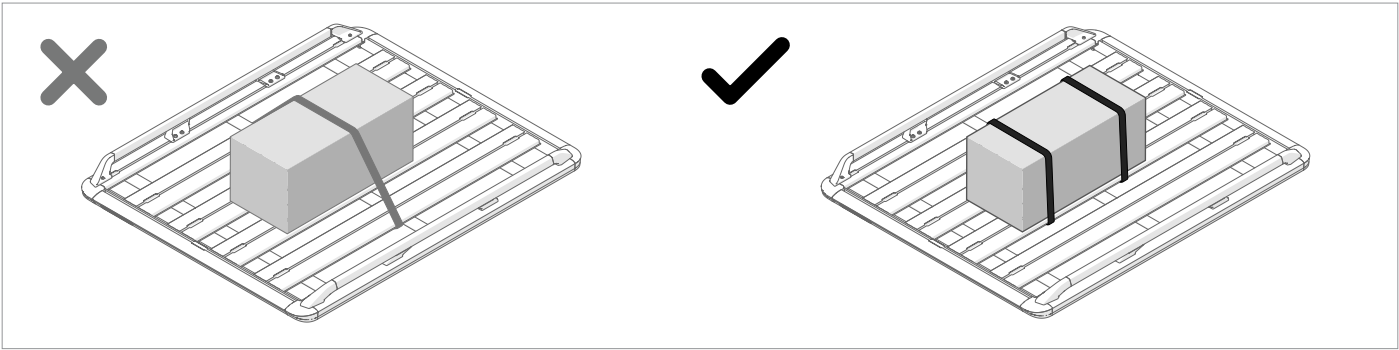
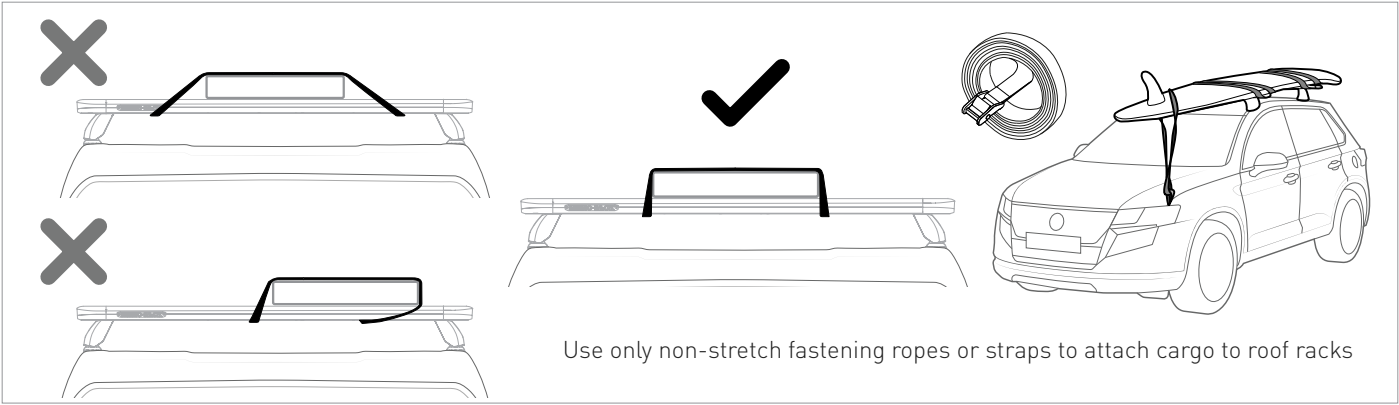
Distribute loads evenly and longitudinally as low as possible over the span.

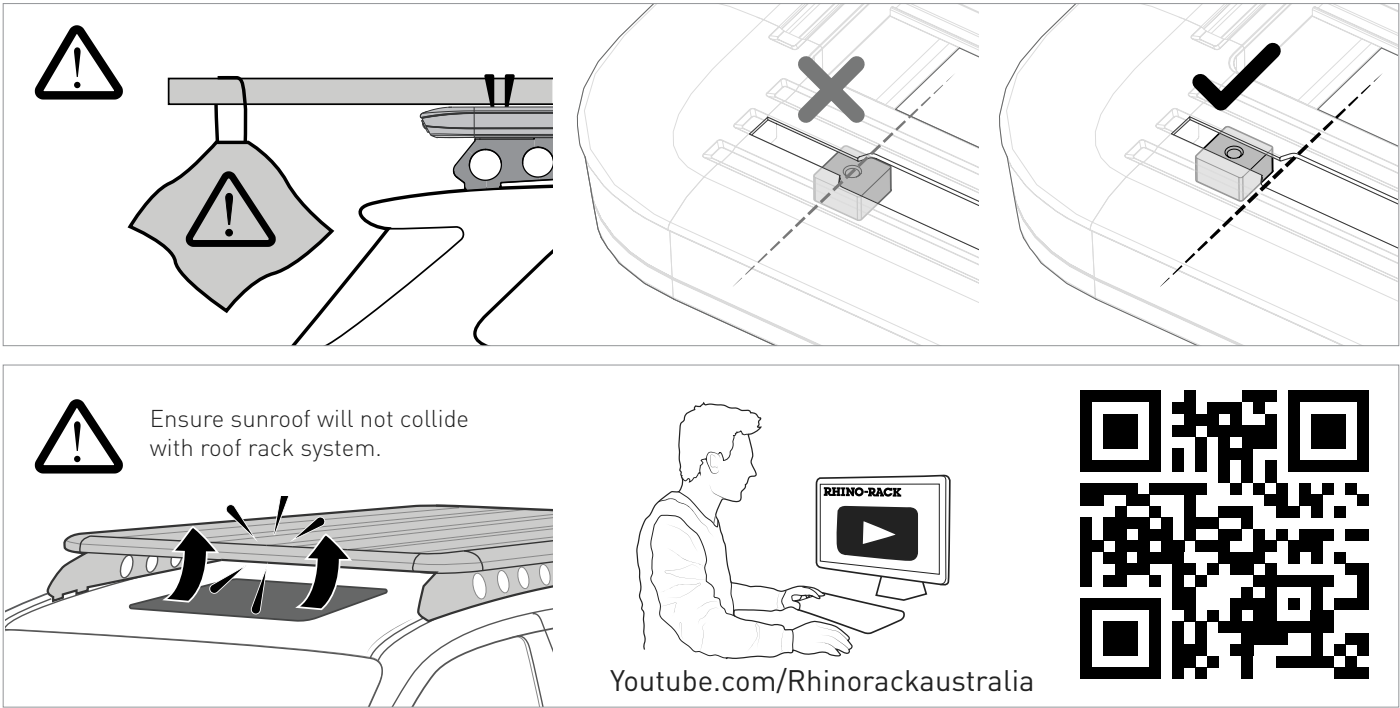
Avoid point loads concentrated at the front or rear.

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 on any driven path that does not contain a surface protection layer (tar/bitumen).

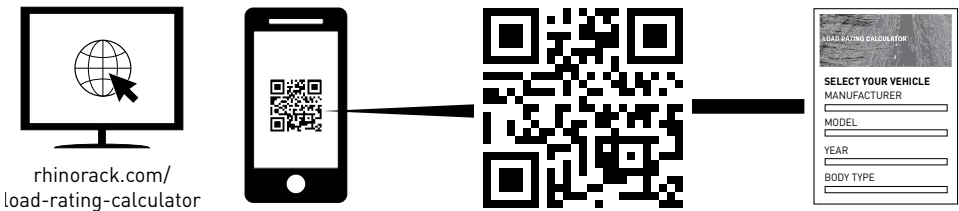






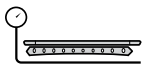
Carrying Capacity

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

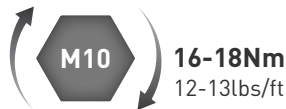
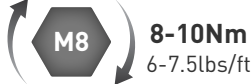
Total permissible weight attached to the rack. This is inclusive of the weight of the rack system.

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:





## Warning

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- 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).
- With utility vehicles, the cabin and the canopy/topper move independently. Securely attach cargo to one of either the cabin roof or the canopy/topper, not both.
- Always ensure you fasten your load securely.
- Use only non-stretch fastening ropes or straps to attach cargo to your load.

## Note for Dealers and Fitters

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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.

## Join the Herd!

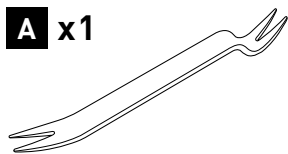
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We love creating our products for you and hope you love using them too. For complete peace of mind, register your product at [www.rhinorack.com/warranty](http://www.rhinorack.com/warranty). This way, we can quickly help you with any future approved fitment warranty claims. And remember – never to forget to **Make Space For Adventure!**

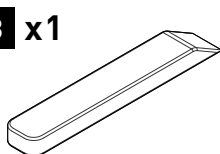
## PARTS LIST

## P1 PHASE 1 - ROOF PREPARATION

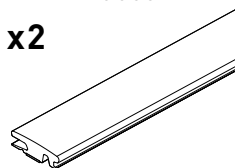
Trim Tool

**A x1**

Nylon Scaper

**B x1**

Ditch Infill Rubber

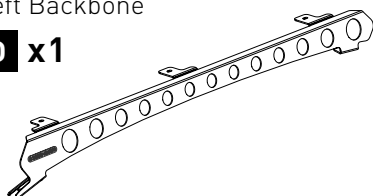
**C x2**

## TOOLS REQUIRED:

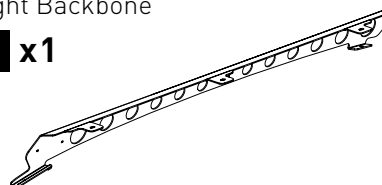
**T1** - 6mm Hex Socket**T2** - T30 Torx Bit**T3** - T20 Torx Bit**T4** - T50 Torx Bit**T5** - T25 Torx Bit**T6** - 15mm Hex Socket**T7** - Rags**T8** - Ruler / Tape Measure**T9** - Fine Tip Marker**T10** - Masking Tape**T11** - 16mm Open-ended Spanner**T12** - 17mm Hex Socket**T13** - 8mm Hex Socket**T14** - 75mm Extension Bar**T15** - Torque Wrench 10-50Nm**T16** - 13mm Spanner**T17** - Right Angle Pick**T18** - 7mm Hex Socket (Amarok ONLY)

## P2 PHASE 2 - BACKBONE INSTALLATION

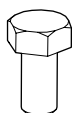
Left Backbone

**D x1**

Right Backbone

**E x1**

M10 x 20mm Hex Head Bolt

**F x4**

M10 x 24mm Flat Washer

**G x2**

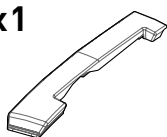
M10 x 35mm Flat Washer

**H x2**

M10 Nyloc Nut

**I x4**

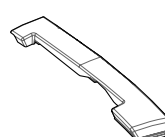
Front Left Ditch Cover Trim

**J x1**

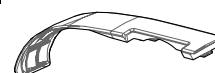
Rear Left Ditch Cover Trim

**K x1**

Front Right Ditch Cover Trim

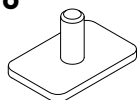
**L x1**

Rear Right Ditch Cover Trim

**M x1**

## P3 PHASE 3 - PLATFORM INSTALLATION (5XXXX Series Pioneer)

T-Bolt

**N x6**

M8 x 24mm Flat Washer

**O x6**

M8 Nyloc Nut

**P x6**

Fitting Instruction

**Q x1**

## CONTENTS:

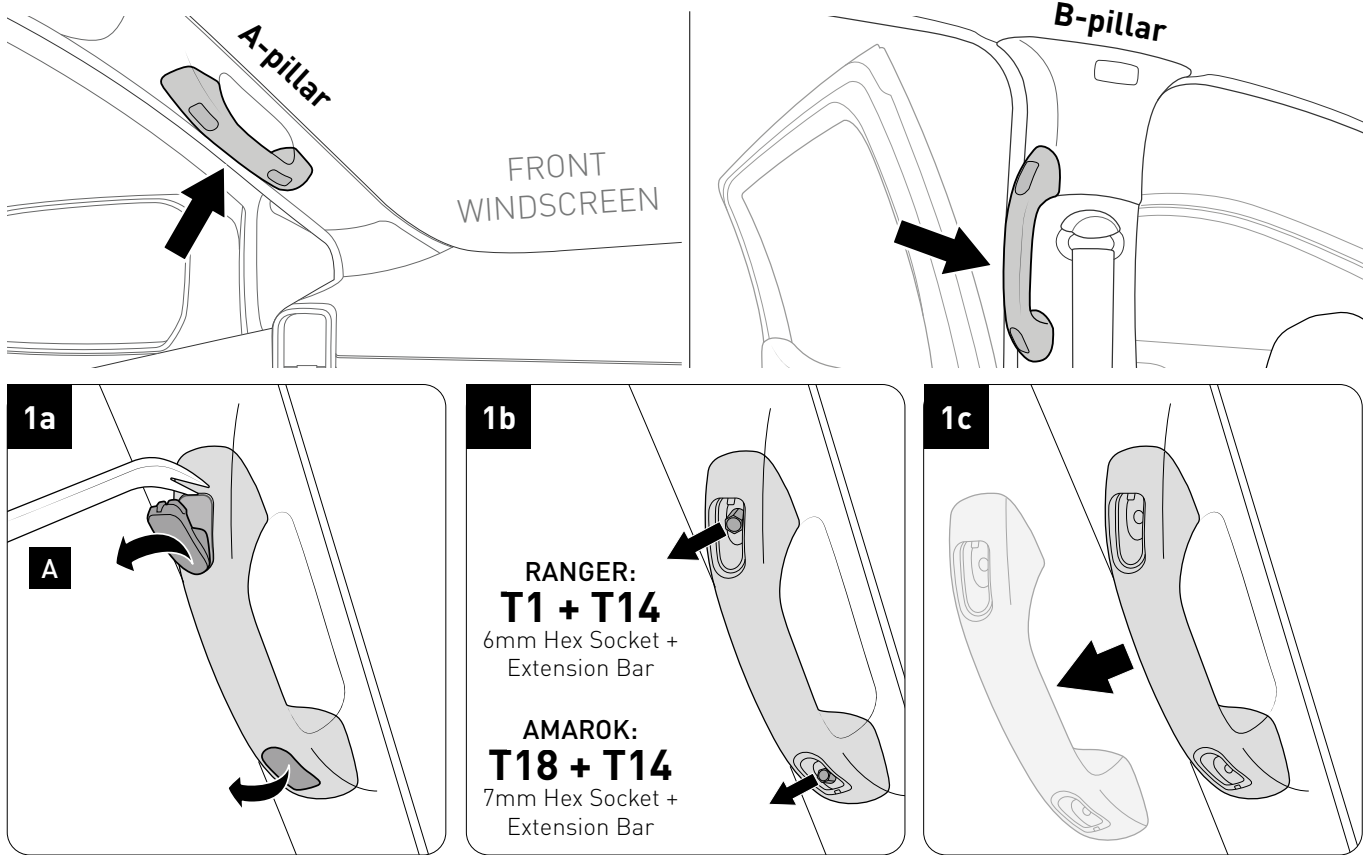
For **Factory Rail Variants**, complete Steps **1** - **24** and **30** - **43**For **Bare Roof Variants**, complete Steps **1** - **21** and **25** - **43****NOTE:** Roof lining drop requires safe storage of removed parts, for ease of re-fitment.

## INTERNAL ROOF LINING DROP - For All Variants

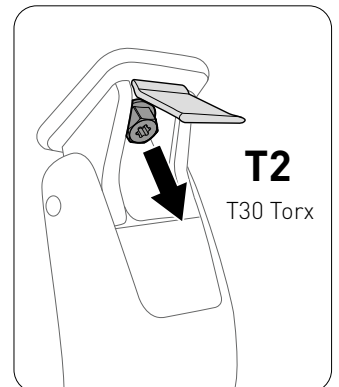
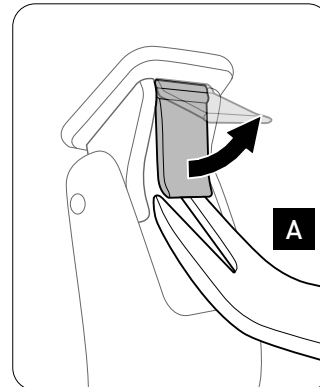
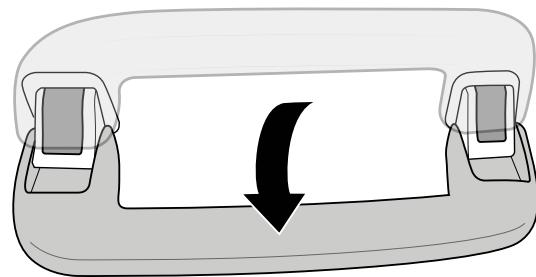
P1



- 1** Remove all 4 pillar grab handles by removing end caps and then bolts.  
**NOTE:** Store all internal trimming and hardware in a safe location, for ease of re-fitment.



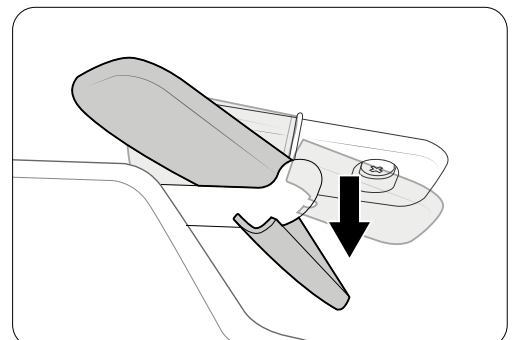
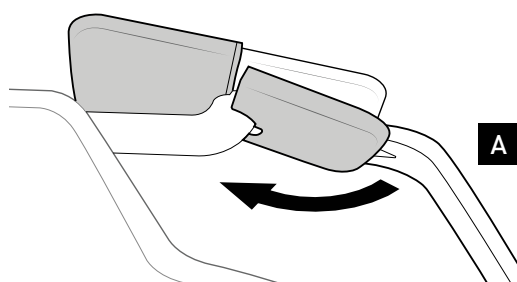
- 2** Remove **all** roof grab handles.

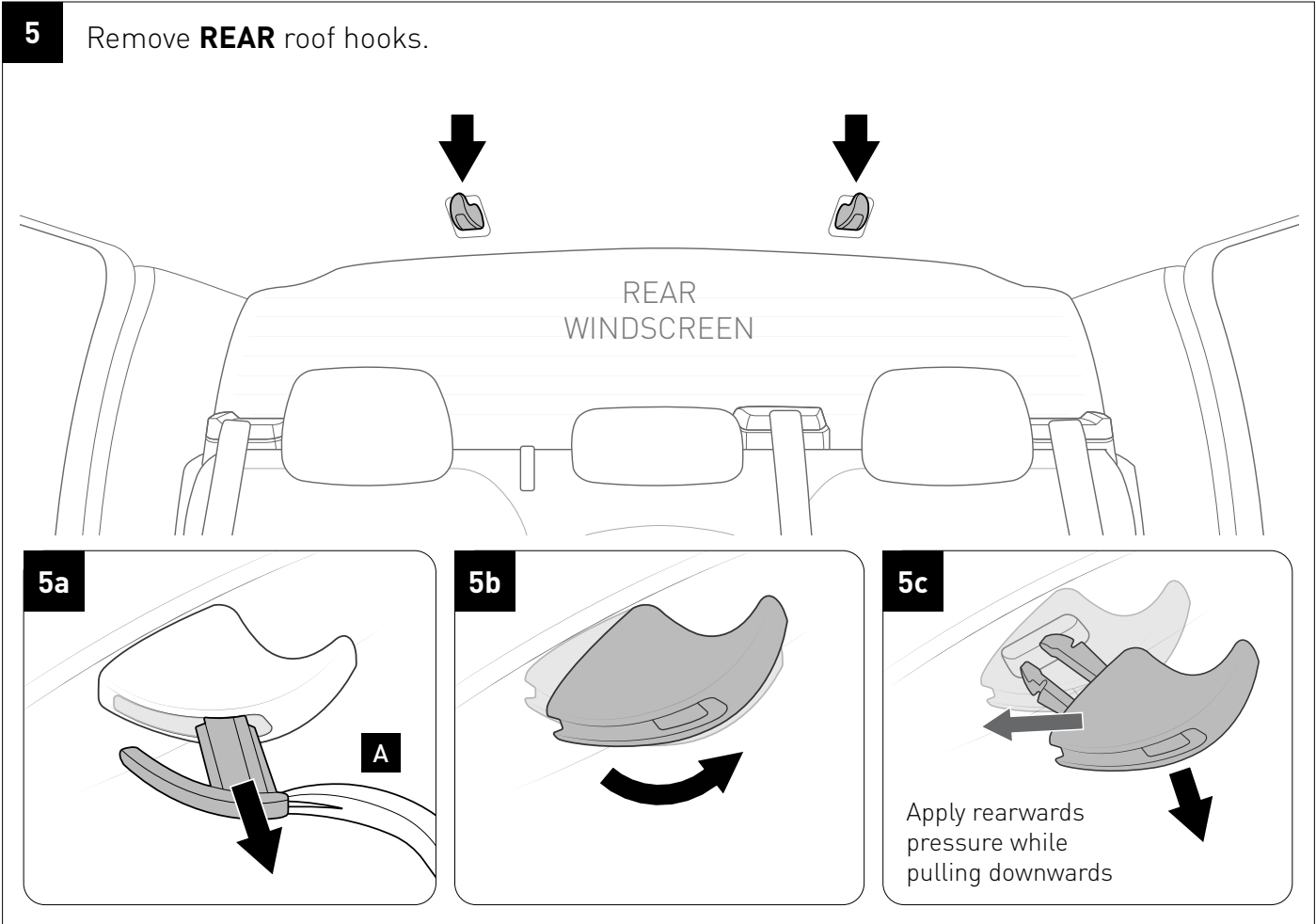
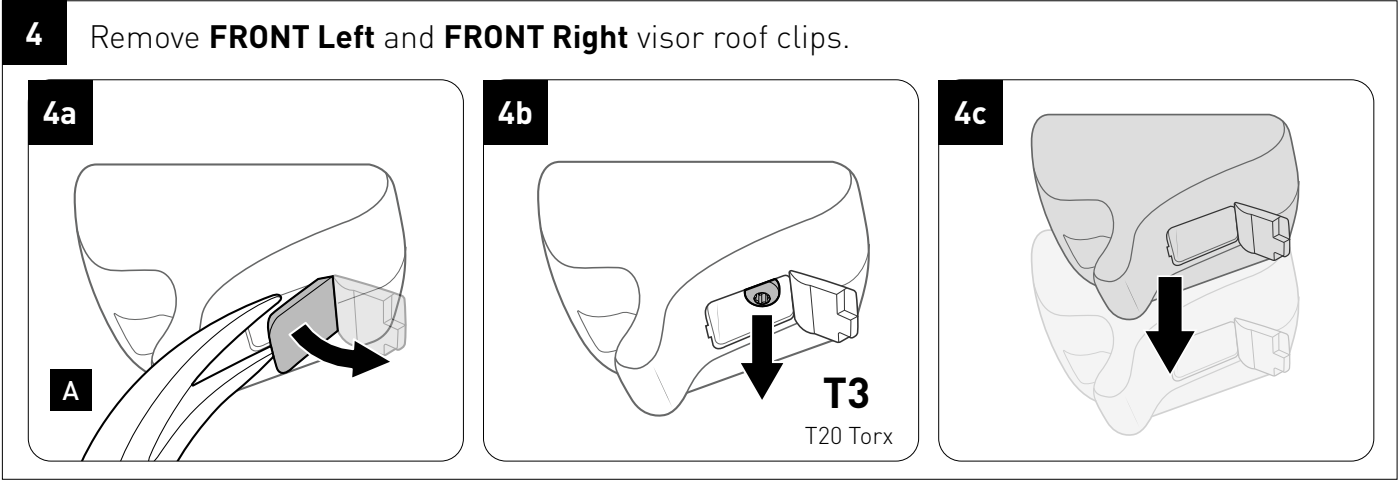
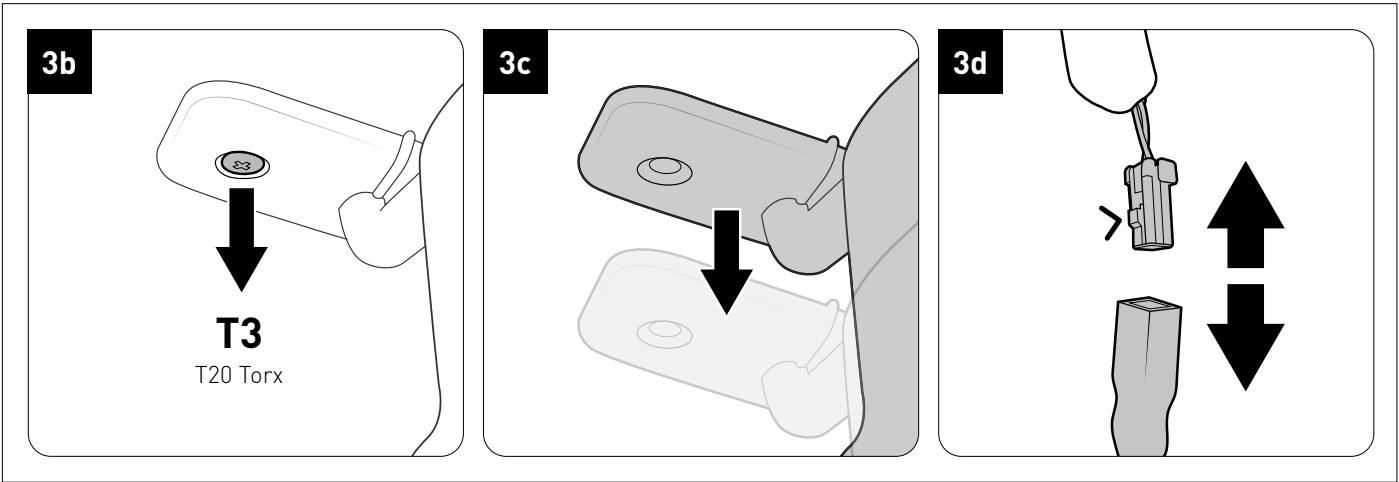


- 3** Remove **both** visors.  
*Step 3 continues on following page.*

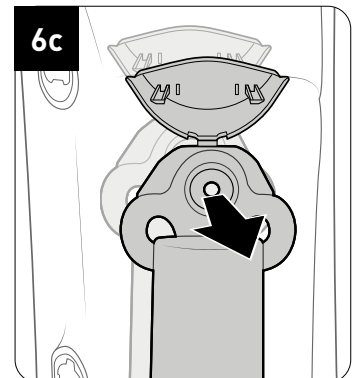
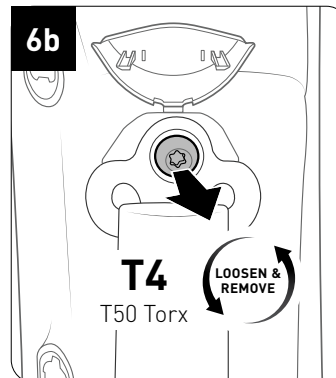
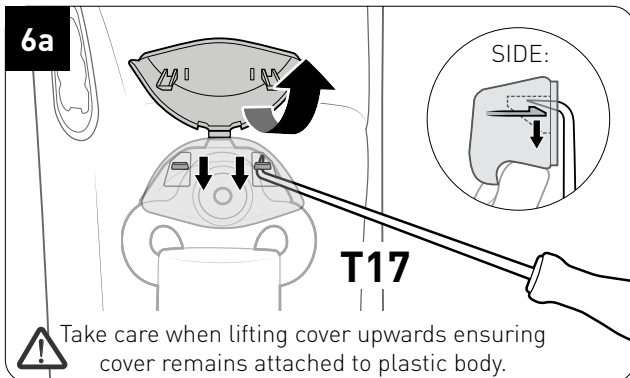
3a

**NOTE:** Swivel visors outwards to side windows for better access to connectors.

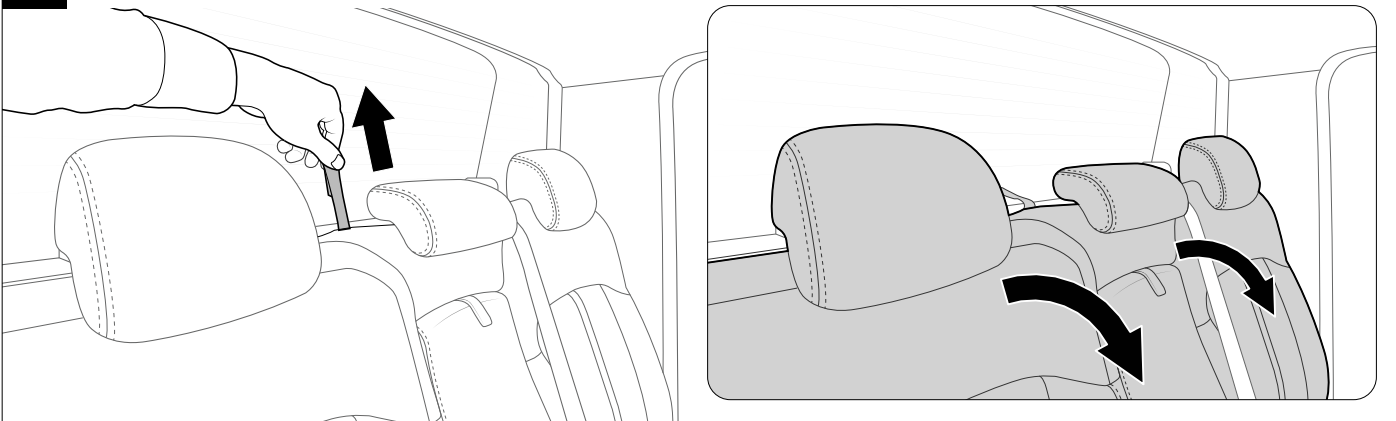




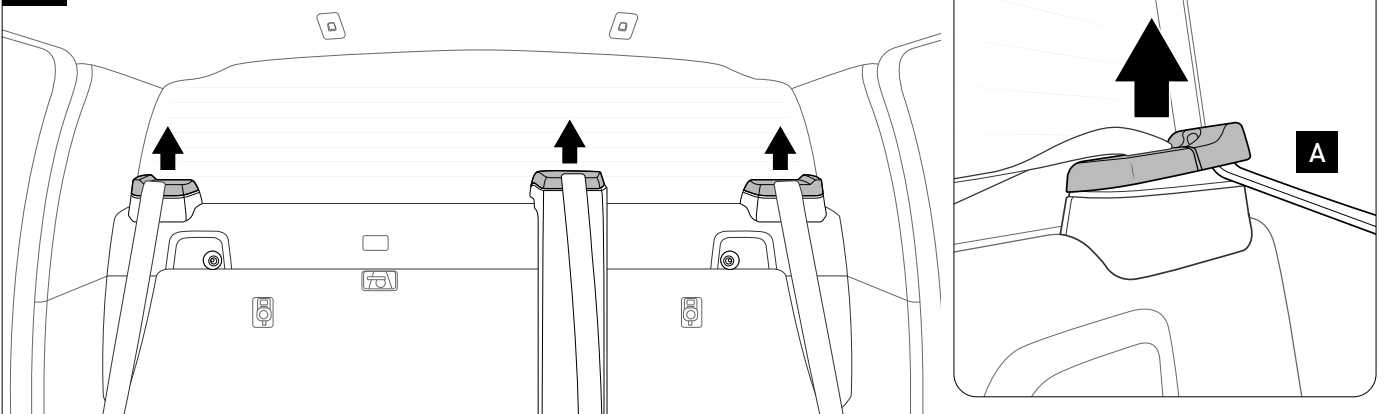
## 6 Remove **B-pillar** seatbelts.



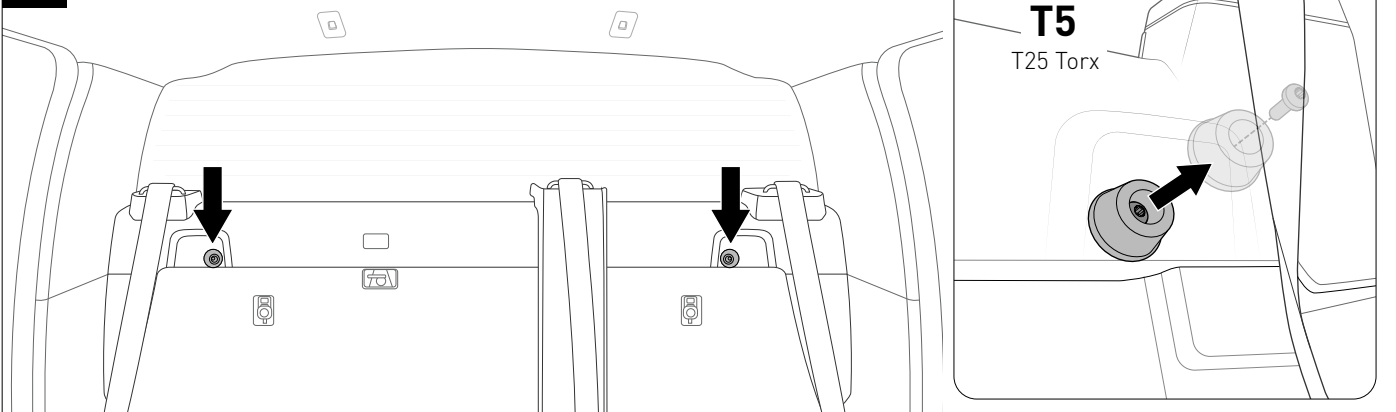
## 7 Fold down REAR seats.

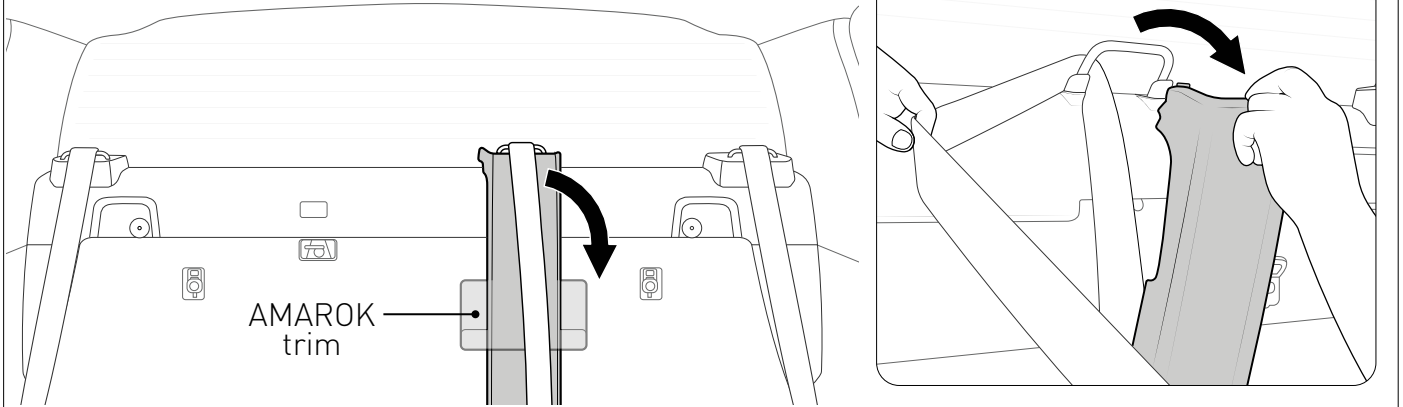
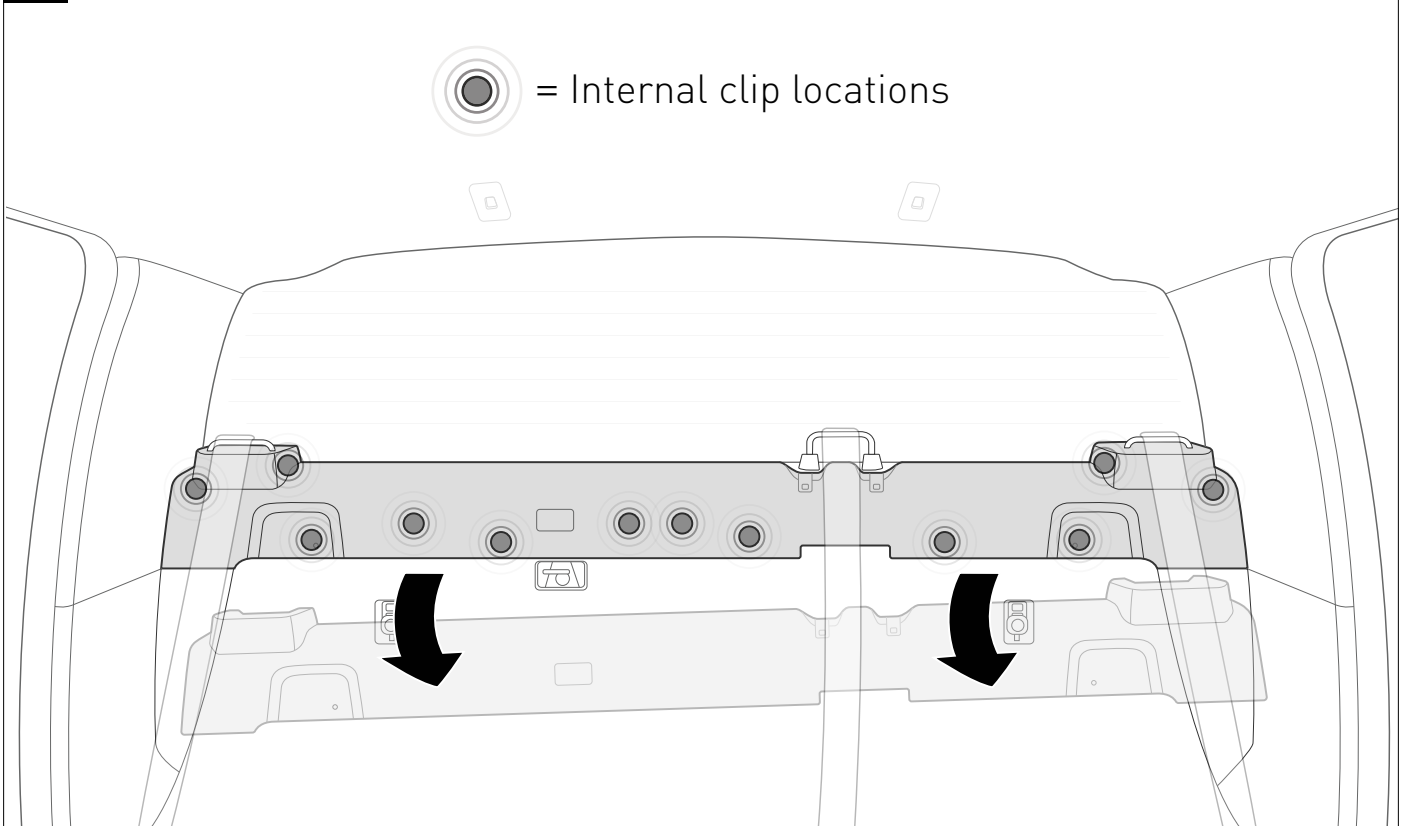
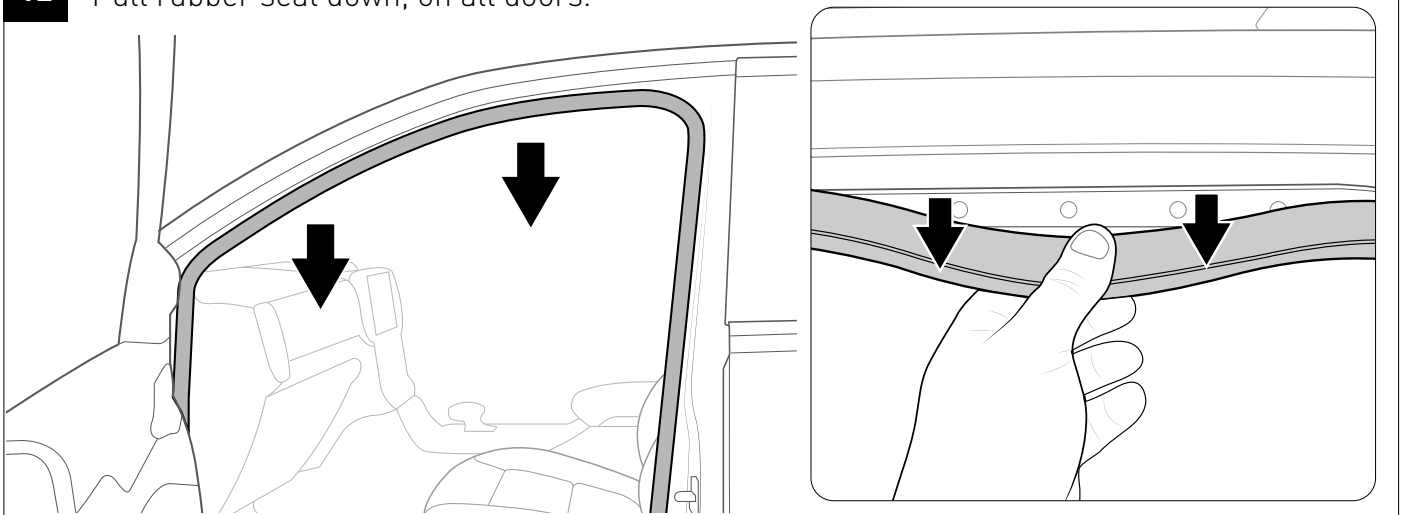


## 8 Lever off all 3 plastic seatbelt caps.

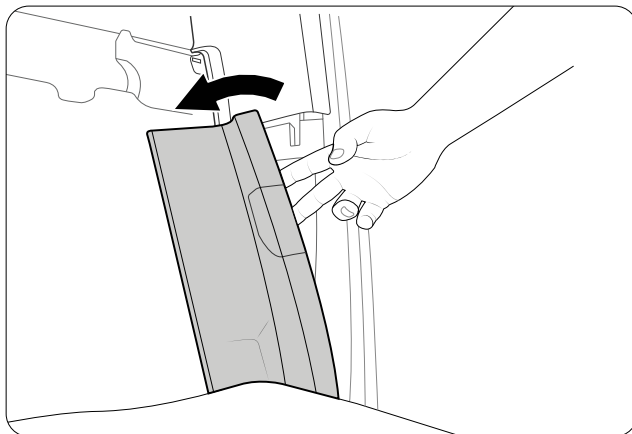
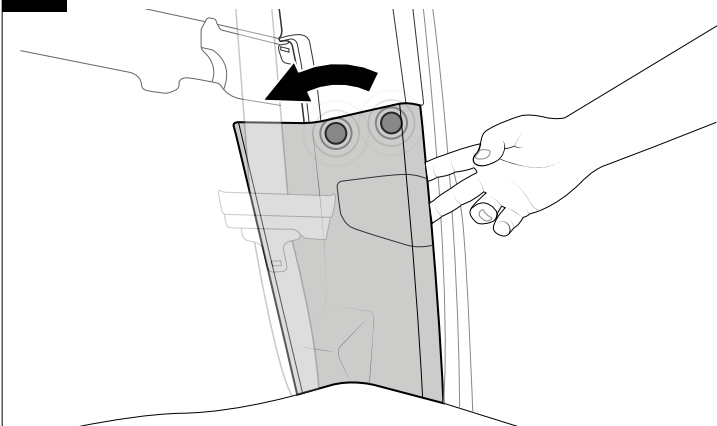


## 9 Remove 2 bolts from **REAR** plastic panel.

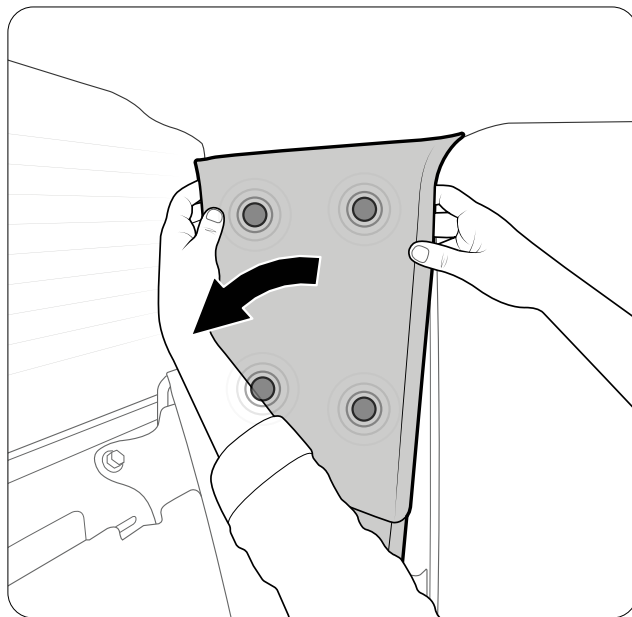
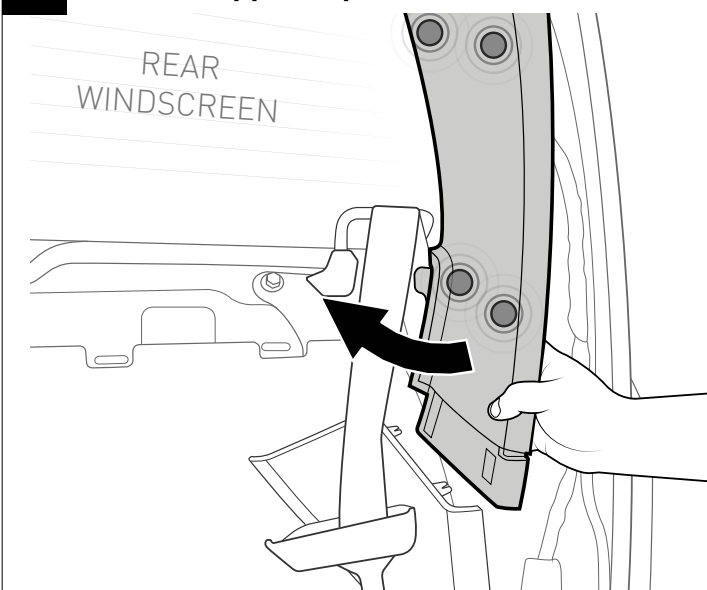


**10** Remove **REAR** middle seatbelt pillar**11** Remove **REAR** plastic panel from internal clip locations.**12** Pull rubber seal down, on all doors.

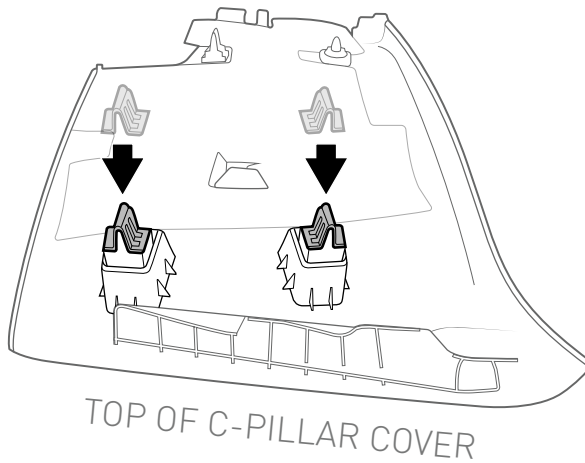
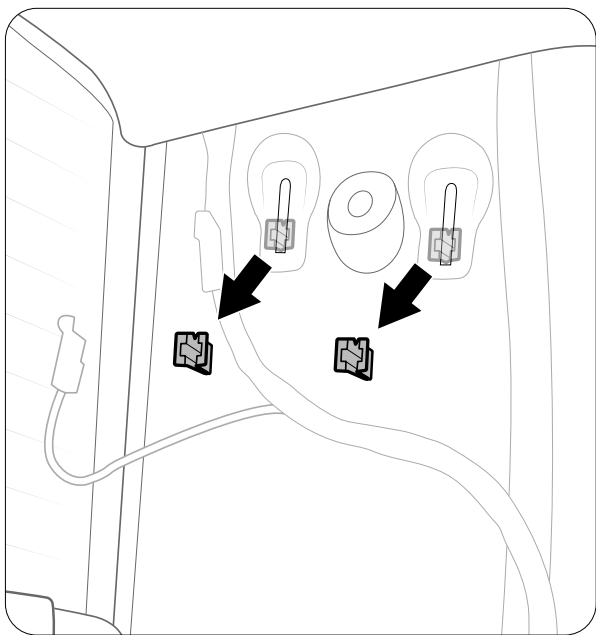
**13** Release the top of the **lower C-Pillar** covers.



**14a** Remove **Upper C-pillar** covers.



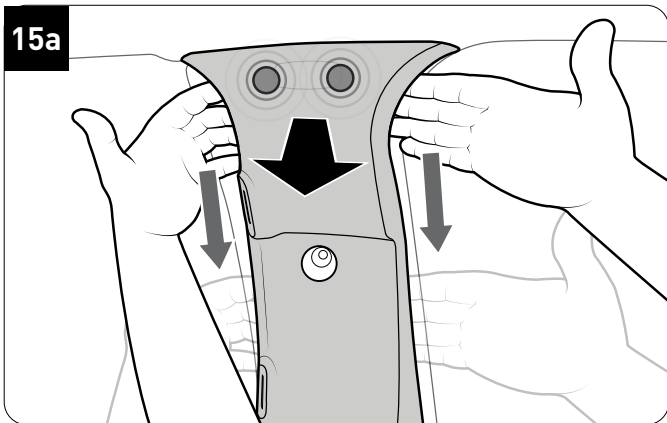
**14b** **NOTE:** If black metal clip retainers are left behind on the vehicle body, retrieve and reinsert onto the plastic covers.



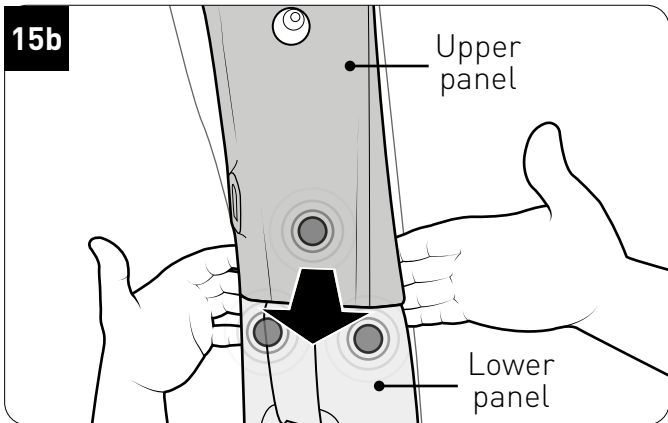


**15** Unclip upper **B-pillar** cover first, then move hands down to unclip the middle clips.

**15a**

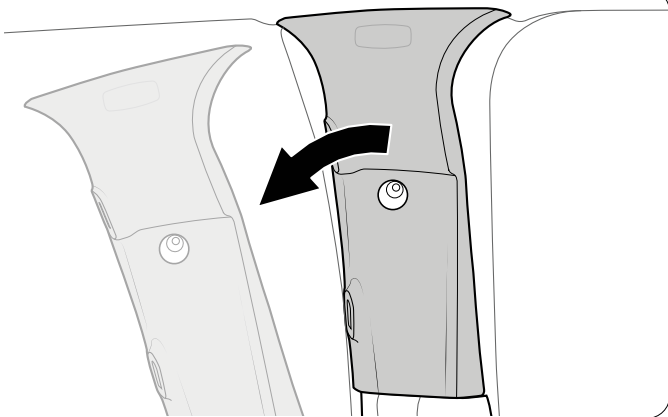


**15b**

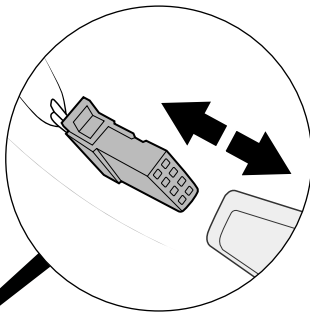
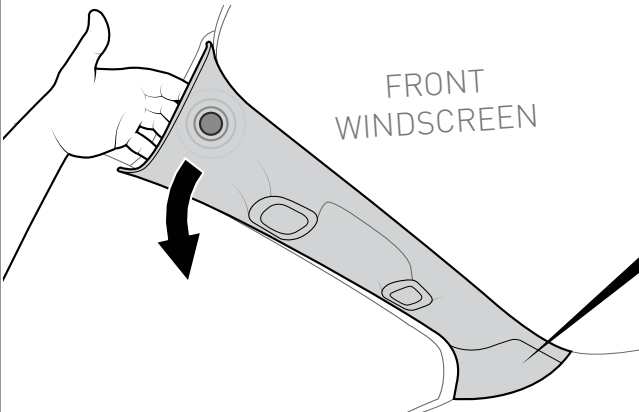


**15c**

Once top of lower cover has unclipped, the upper cover can then be removed from the lower cover.



**16** Unclip and remove **A-pillar** cover.



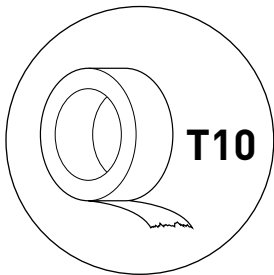
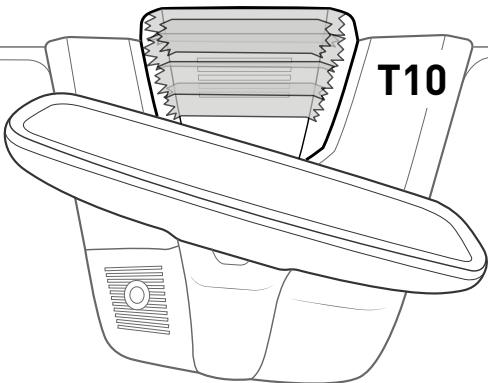
Unclip wire at base of **A-pillar** near speakers

**NOTE FOR AMAROK:**

Do not completely remove the **A-pillar** cover. Loosen slightly just the upper trim cover clips, to provide a small clearance to the headliner.

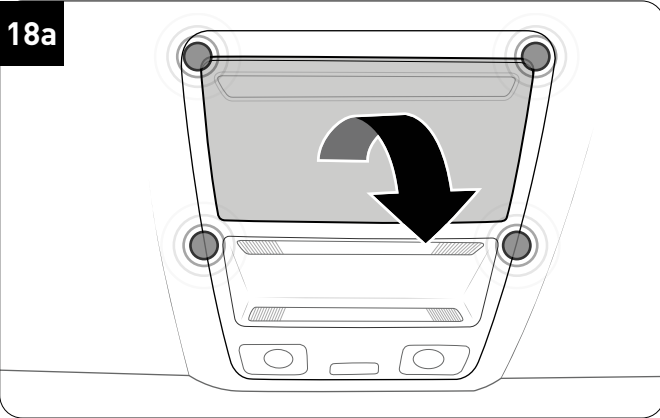
**17** Add layers of tape to prevent scuffing when the headliner drops.

FRONT WINDSCREEN

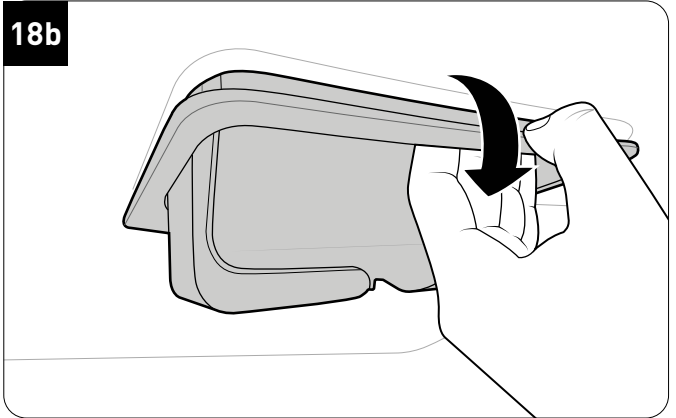


**18** Open sunglasses compartment and pull rear of centre console down.

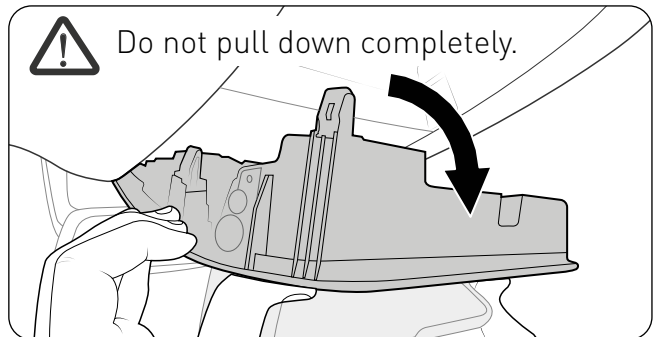
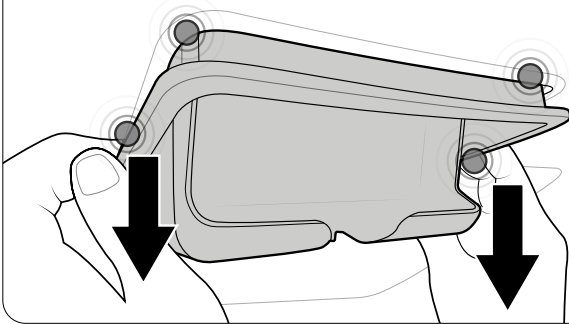
**18a**



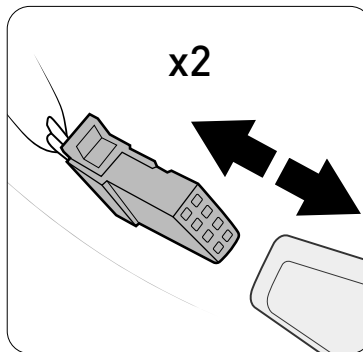
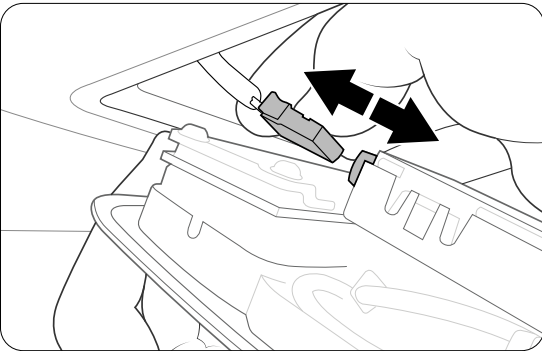
**18b**



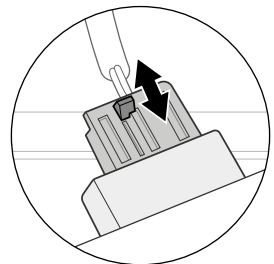
**18c** Once rear is released, move hands forwards to centre of console and pull down again to release the centre clips.



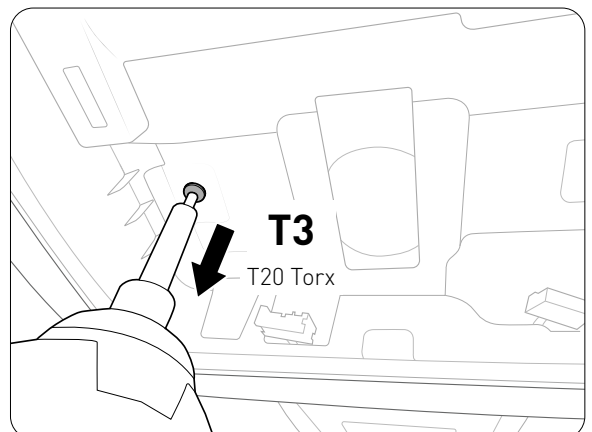
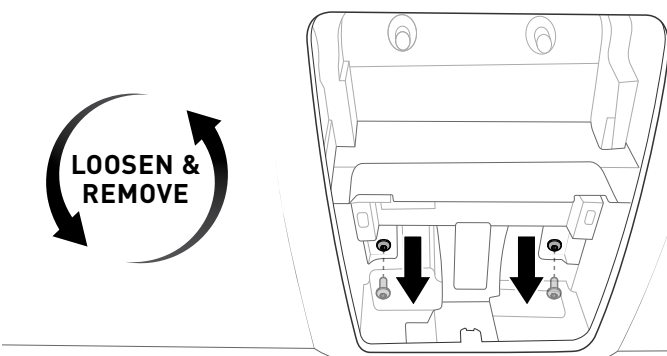
**19** Once console is unclipped carefully lower to access **two** wiring connectors towards the front. Unclip **both** wiring connectors.



**NOTE: RHS** connector features release button



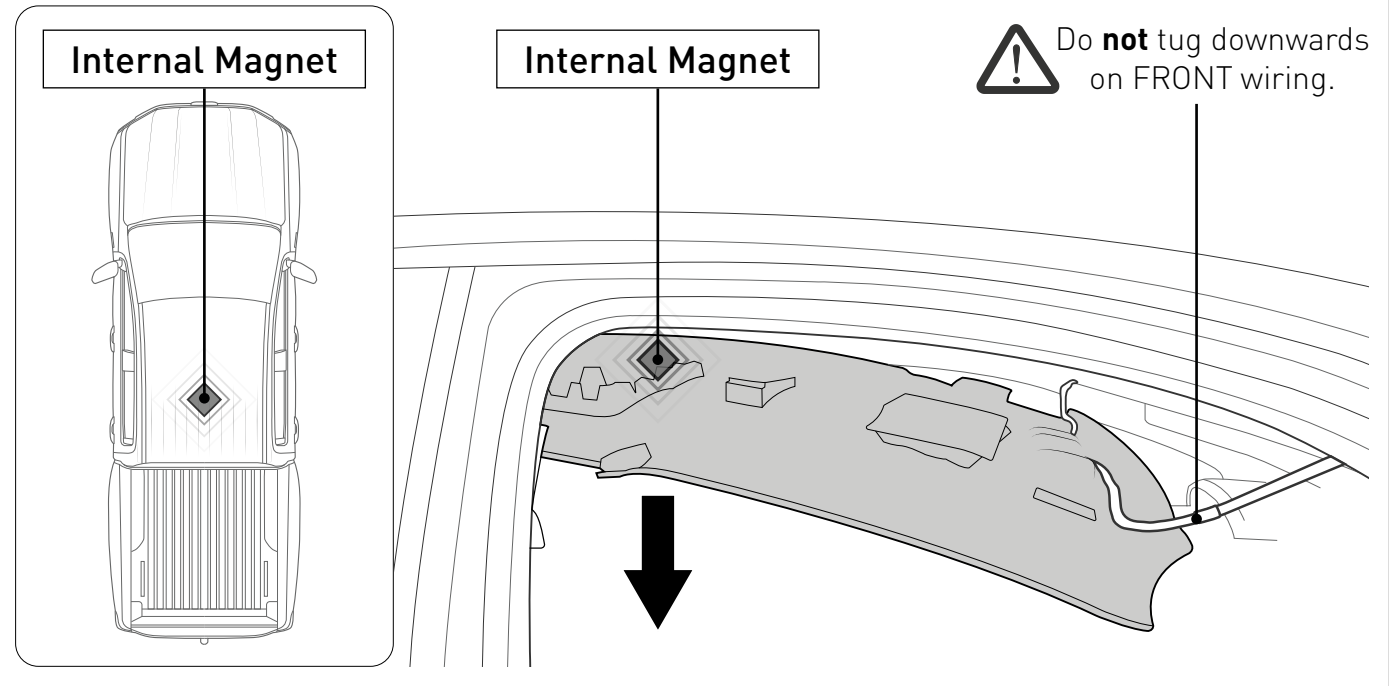
**20**



- 21** With one person standing on each side of the car, behind the **B-Pillar**, simultaneously pull the headliner down to release the magnet in the centre. Lower headliner as far as **FRONT** wiring allows.

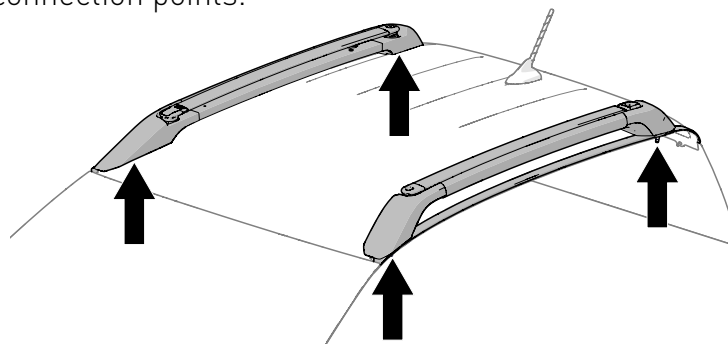


**NOTE:** Front seats can be positioned/reclined so that the headliner rests on the top of front seat headrests.



## FACTORY RAIL VARIANTS (For **Bare Roof** Variants, skip to Step **25**)

- 22** Undo 4 roof rail connection points.

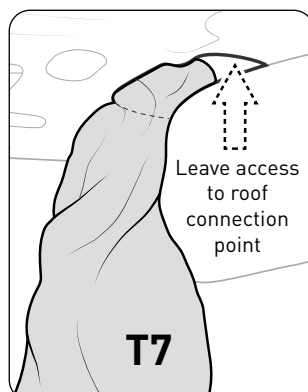
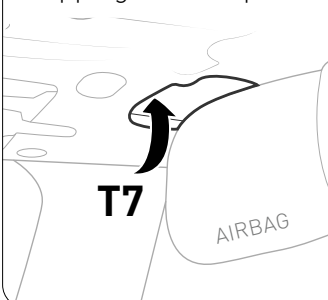


**Do not hit/dislodge airbags**

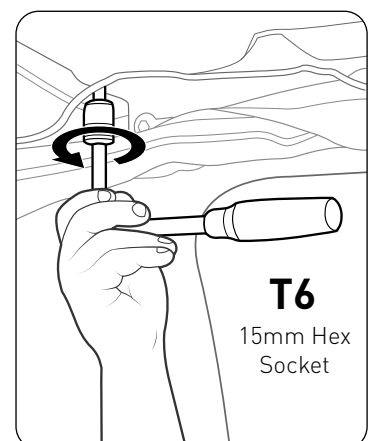
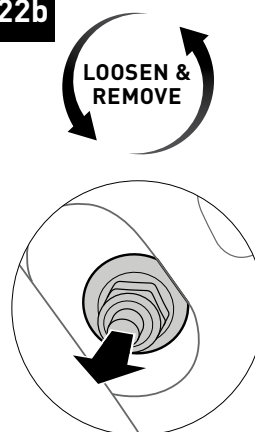
**IMPORTANT**

### 22a For both **FRONT** connection points:

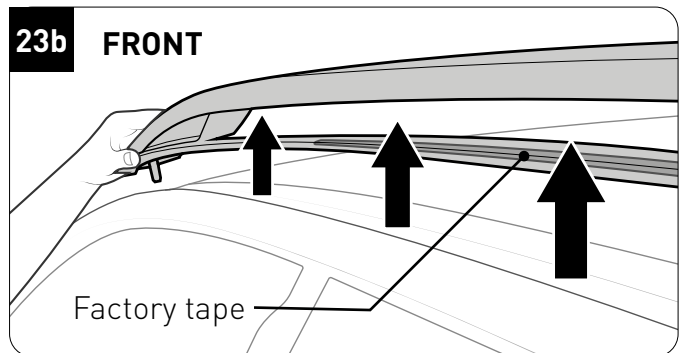
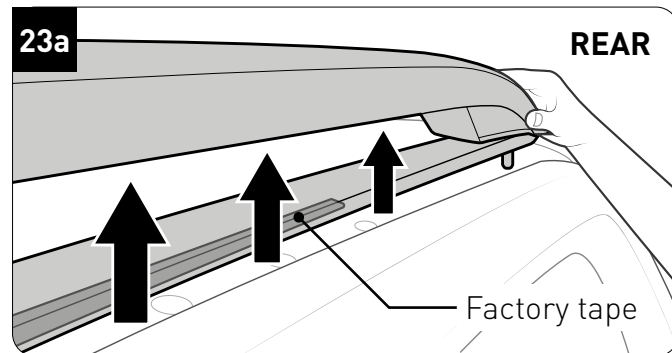
Push a rag into **FRONT** of hole to stop fasteners dropping down A-pillar



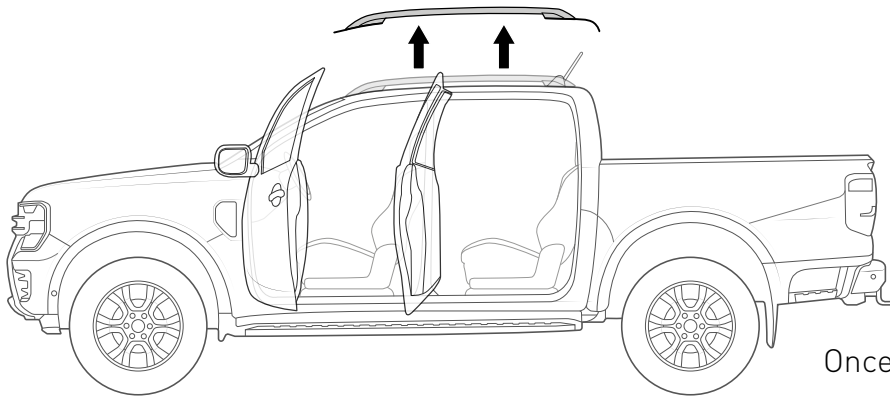
### 22b



- 23** Carefully separate the rail off the vehicle roof, starting from the **REAR**, then moving to the **FRONT** [gradually pry off adhesive tape along the centre of the rail].



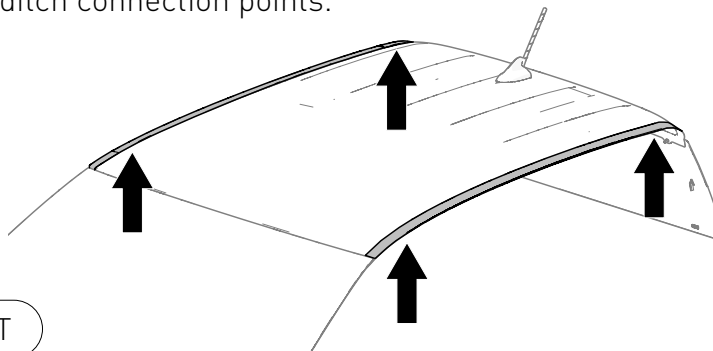
- 24** Completely remove rail in vertical motion, and store rail and hardware in a safe location.



Once completed Skip to Step **30**

## **BARE ROOF VARIANTS** (For **Factory Rail** Variants, skip to Step **30** )

- 25** Undo 4 roof ditch connection points.



**Do not  
hit/dislodge  
airbags**



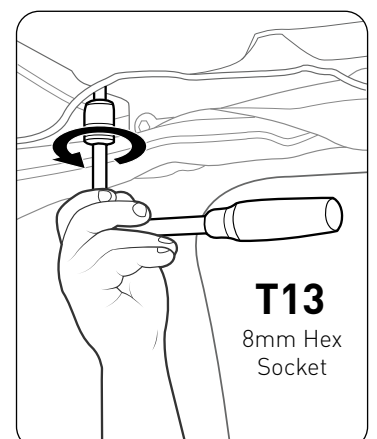
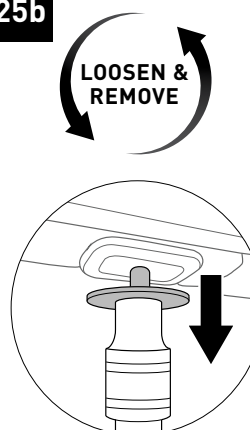
**IMPORTANT**

- 25a** For both **FRONT** connection points:

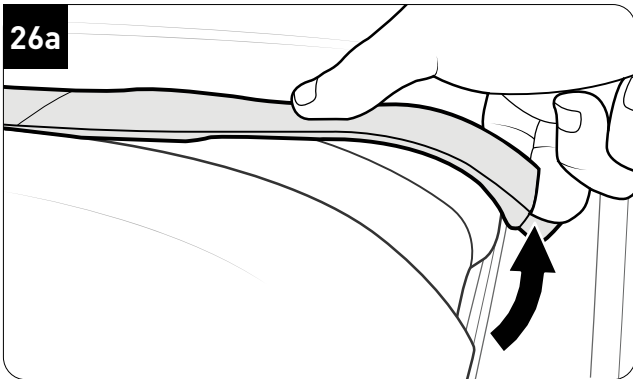
Push a rag into **FRONT** of hole to stop fasteners dropping down A-pillar



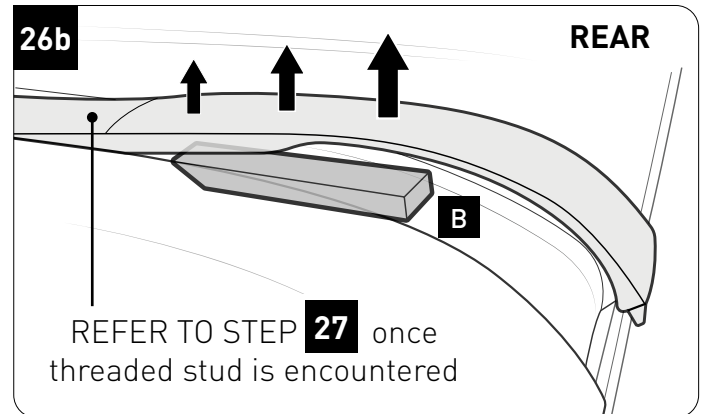
- 25b**



- 26** Peel ditch rubber upwards starting from the **REAR**

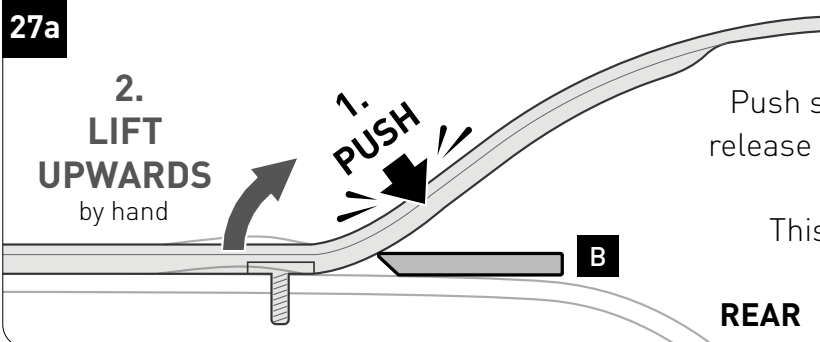


Once lifted, use scraper tool to assist removal.



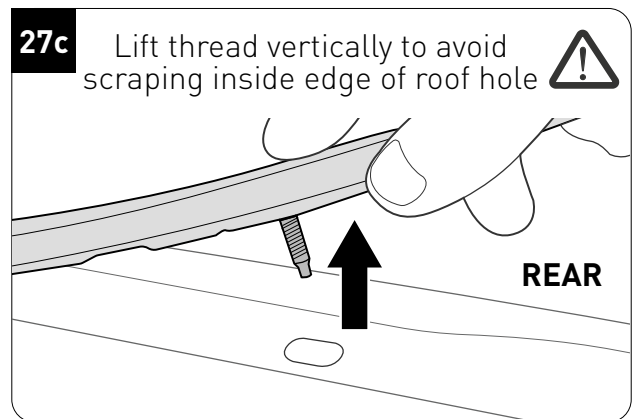
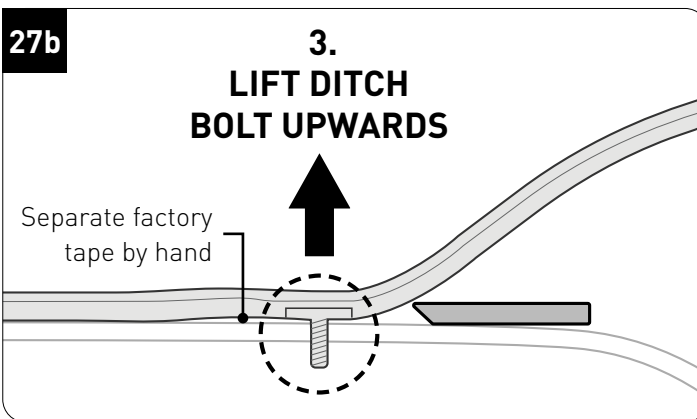
**CAUTION:** Do not use scraper to lever off the body. Only use scraper inside the roof ditch

- 27** **Vertical lifting technique** for threaded bolt connections:

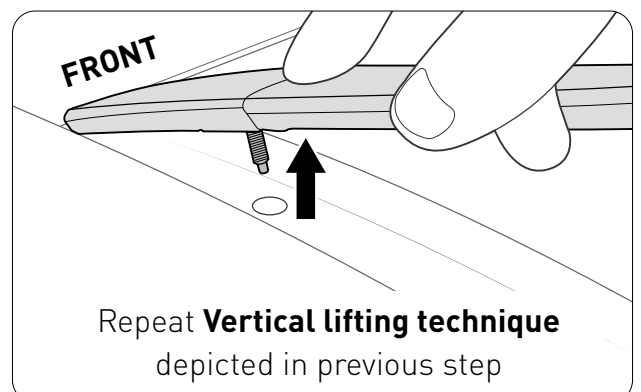
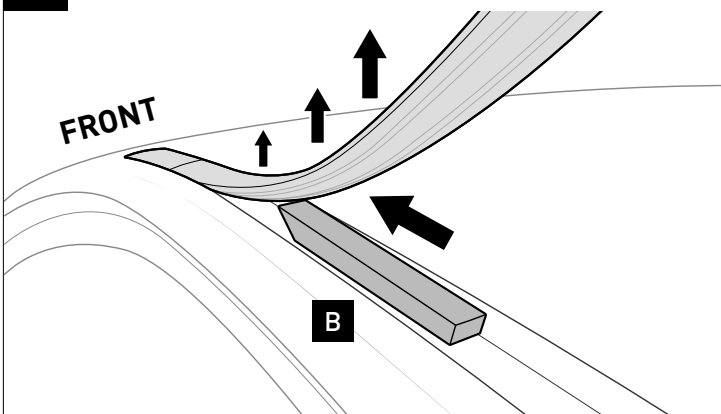


Push scraper, inside the ditch only, to help release the ditch rubber in front of the stud.

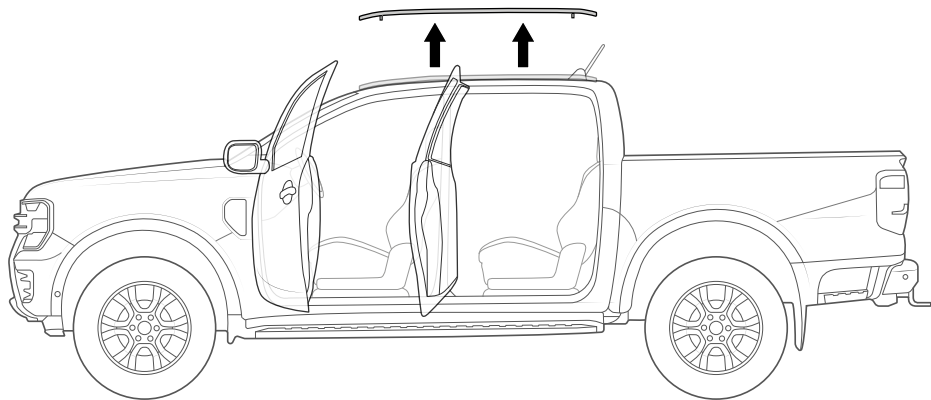
This will help separate the factory tape.



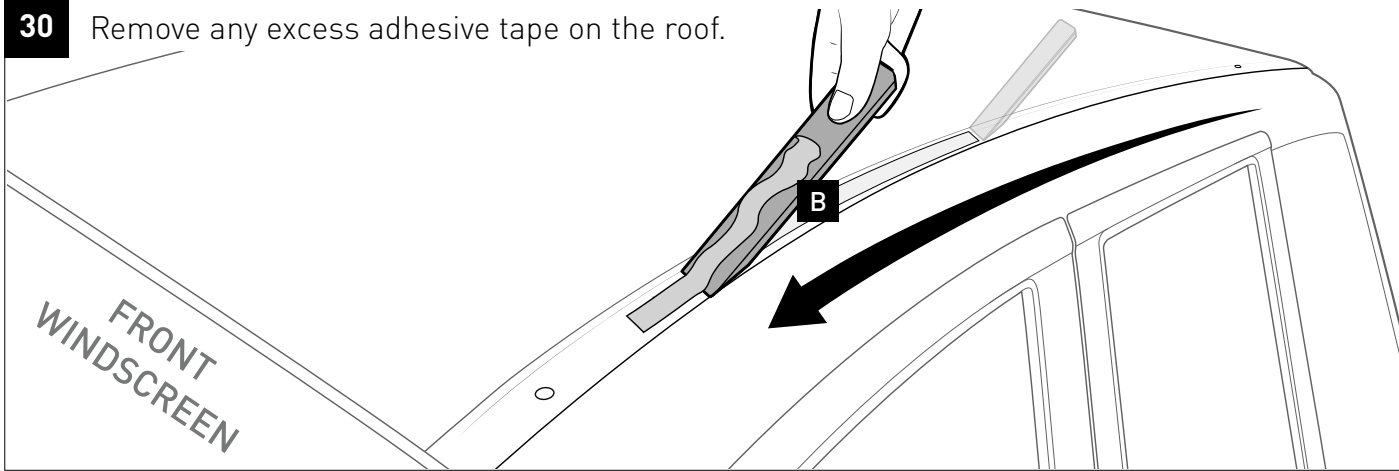
- 28** Continue lifting ditch rubber upwards towards the **FRONT** of the vehicle



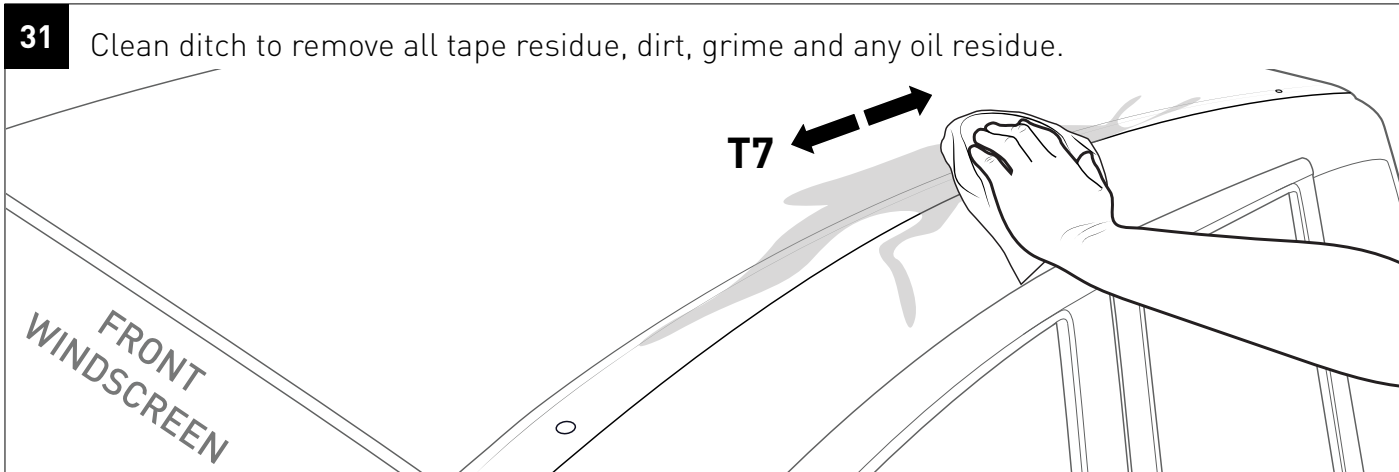
29 Remove and store.



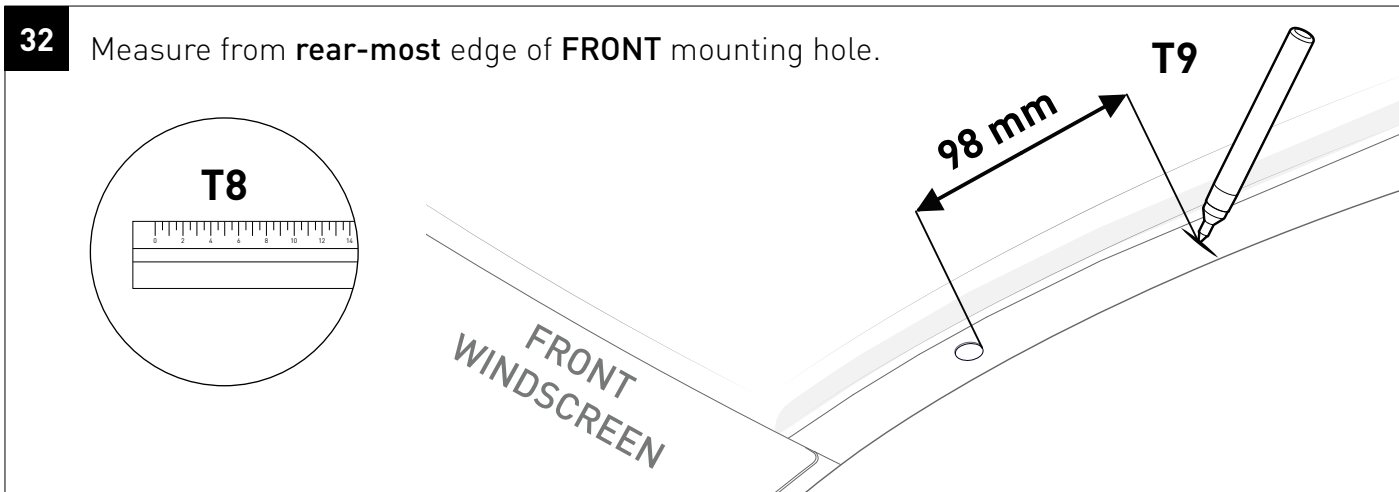
30 Remove any excess adhesive tape on the roof.



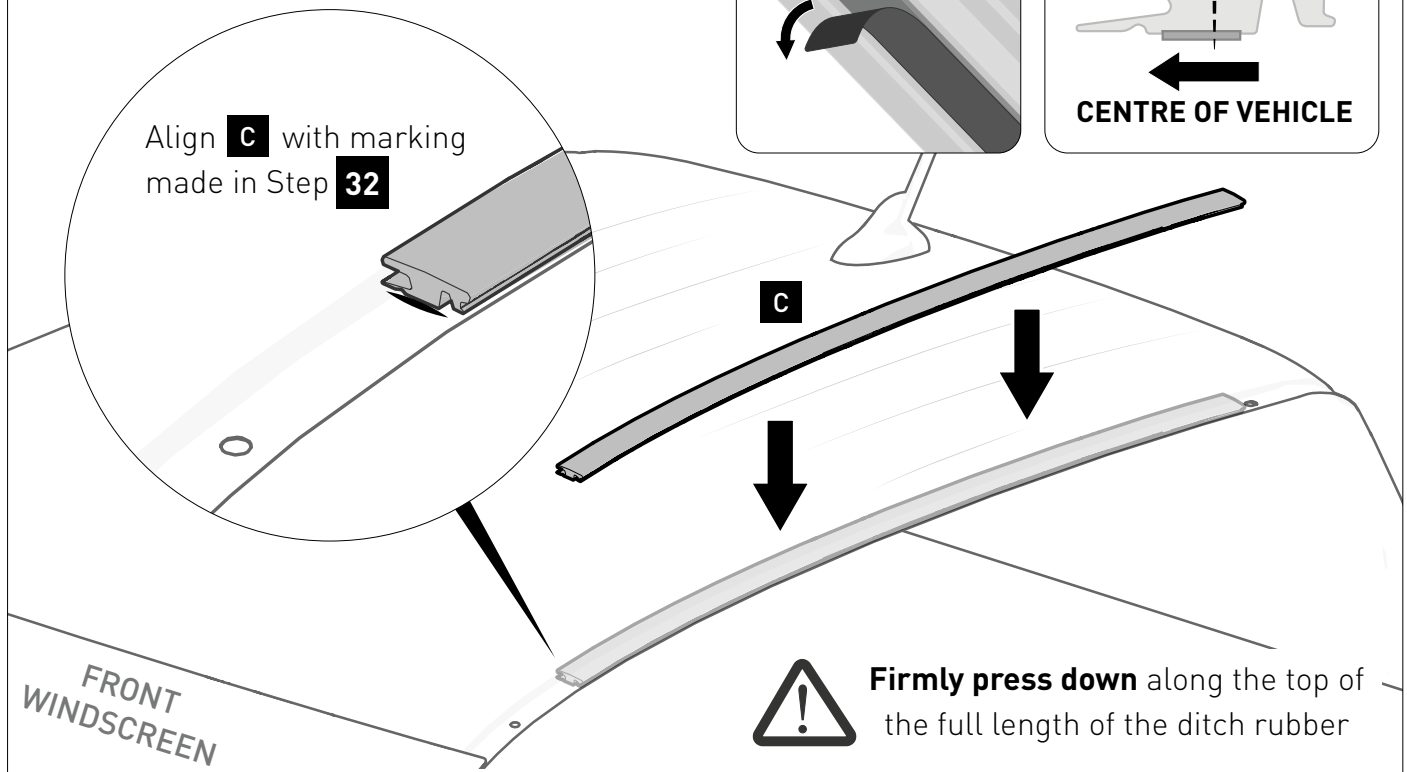
31 Clean ditch to remove all tape residue, dirt, grime and any oil residue.



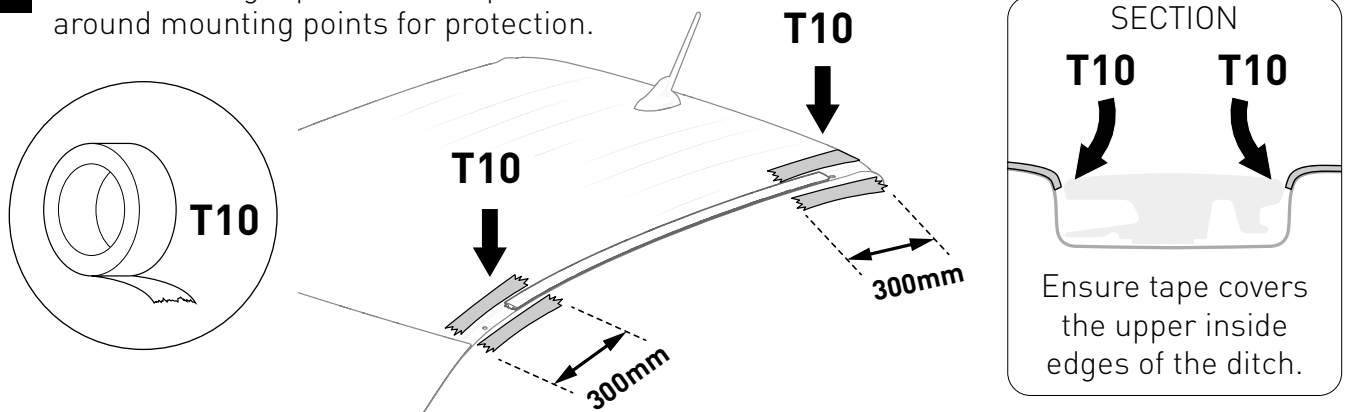
32 Measure from **rear-most** edge of **FRONT** mounting hole.



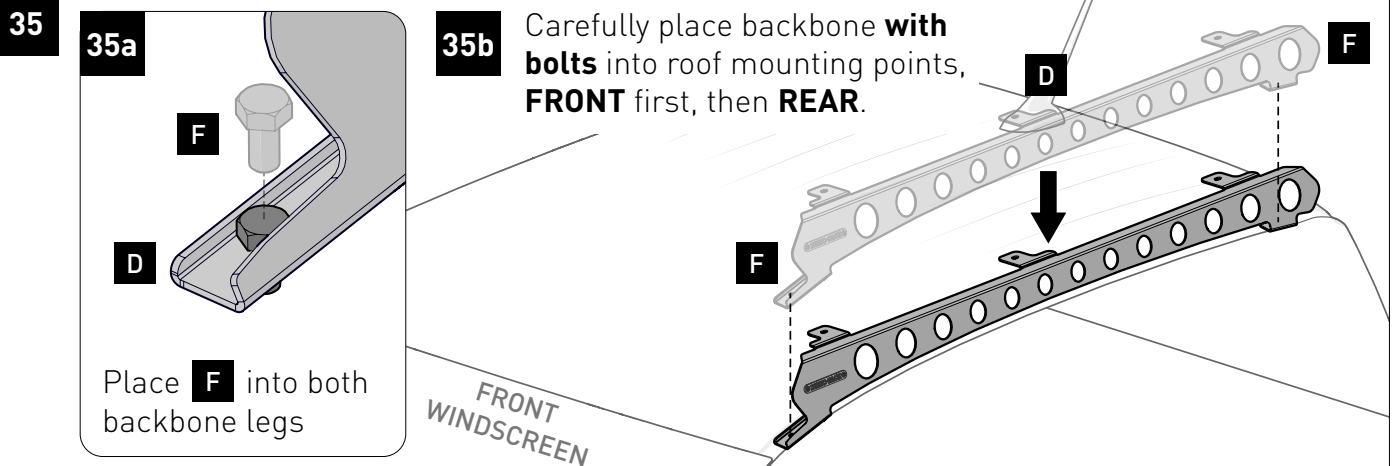
**33** Apply to ditch starting at the **FRONT**.



**34** Place masking tape on vehicle paintwork around mounting points for protection.

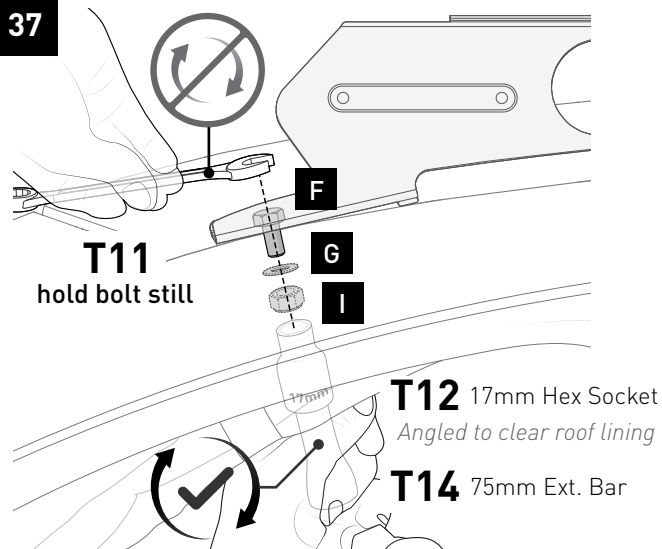
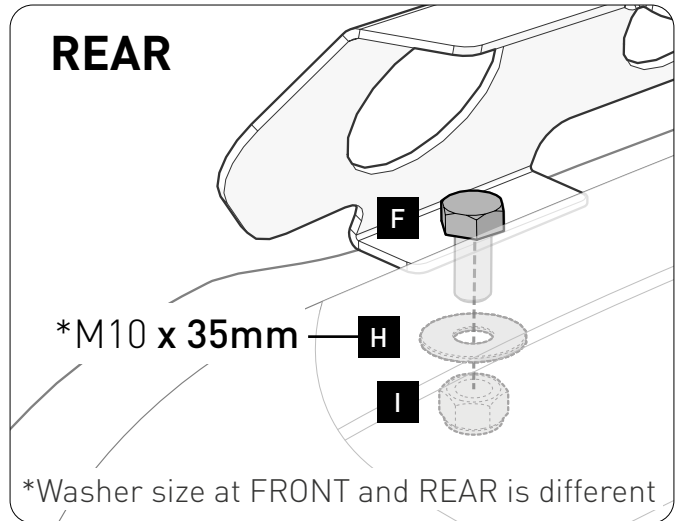
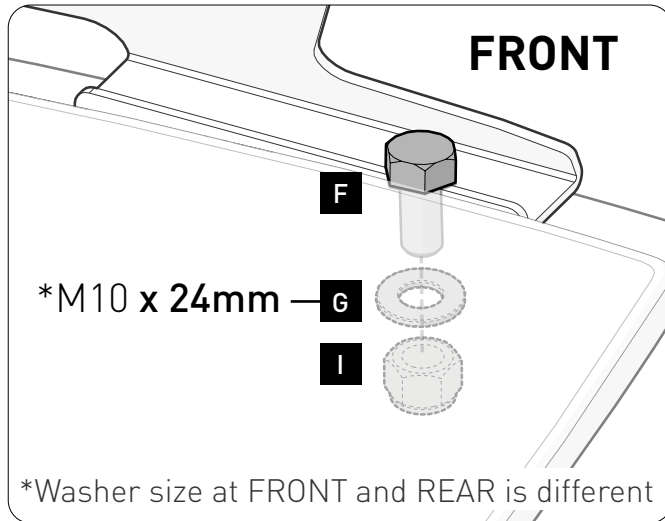
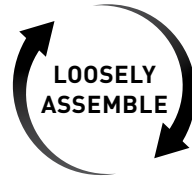
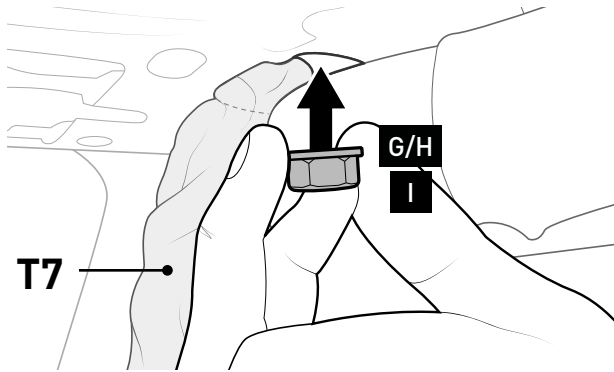


P2





- 36** With **T7** still blocking front of hole, finger tighten hardware onto **F** from underneath roof, completing **FRONT** first, carefully holding washer and nut at the same time.



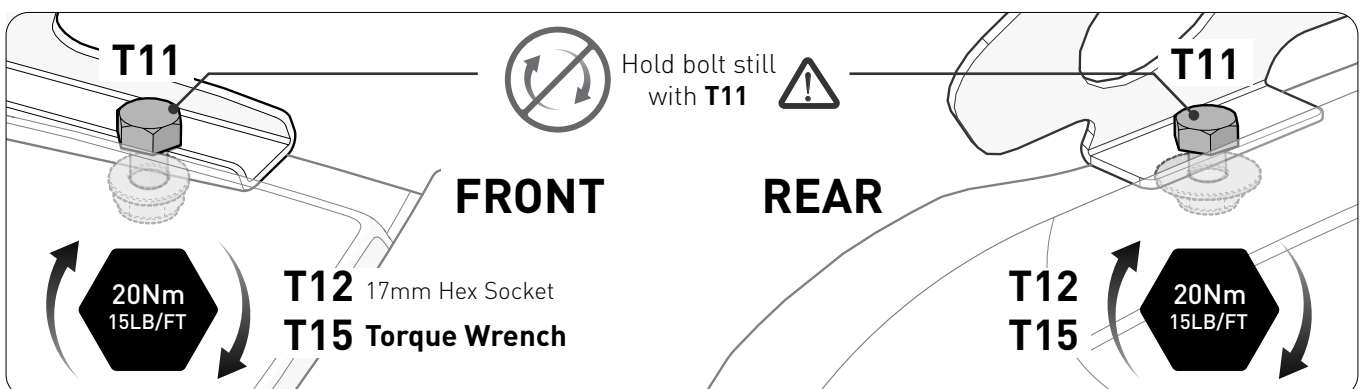
Use open end of **T11** Spanner, angled to clear roof, to hold bolt head stationary.

**Do not rotate T11 spanner**

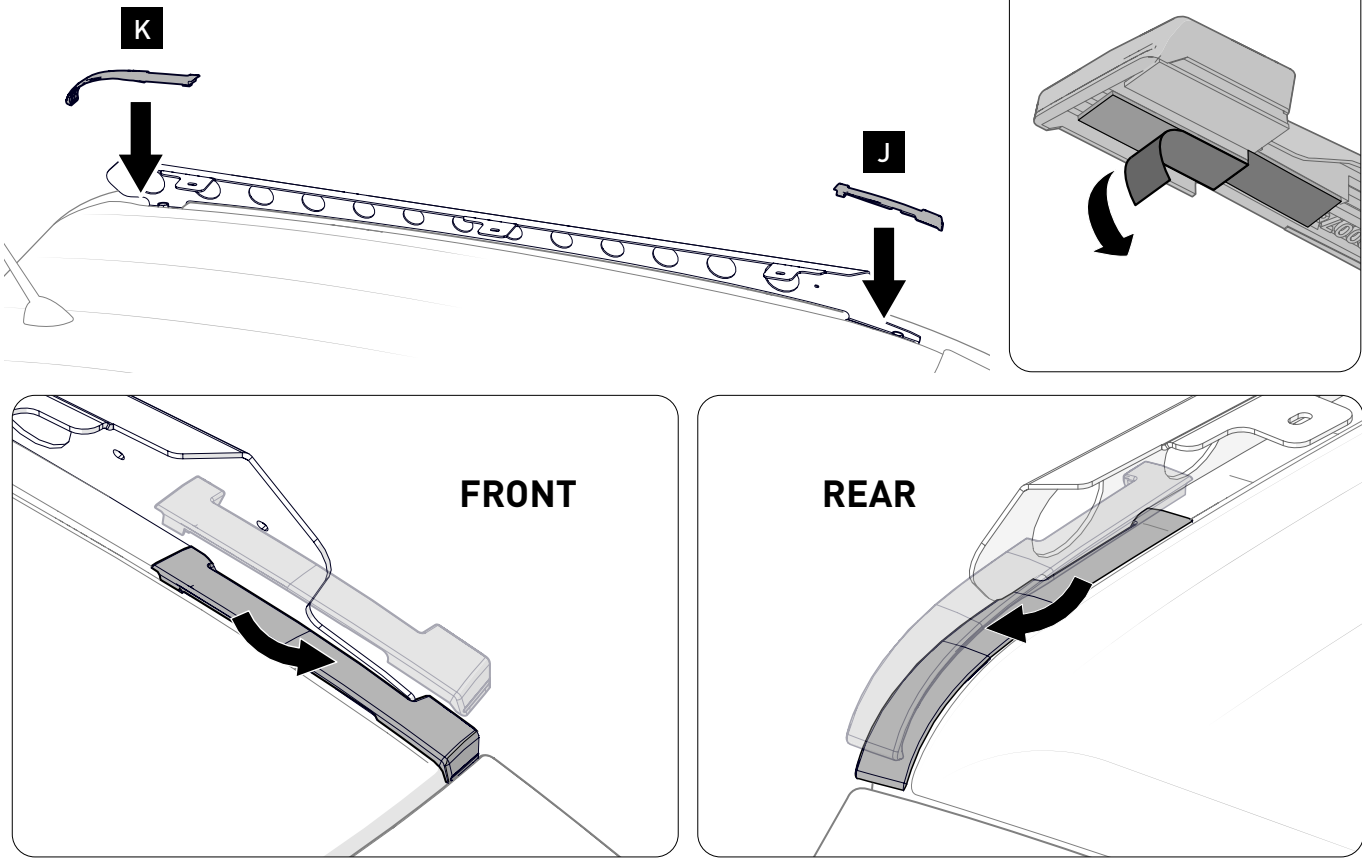
1. Loosely tighten **FRONT**, then **REAR**, with **T12** 17mm Hex Socket.

2. Fully tighten **FRONT**, then **REAR** with **T15** Torque Wrench to finish.

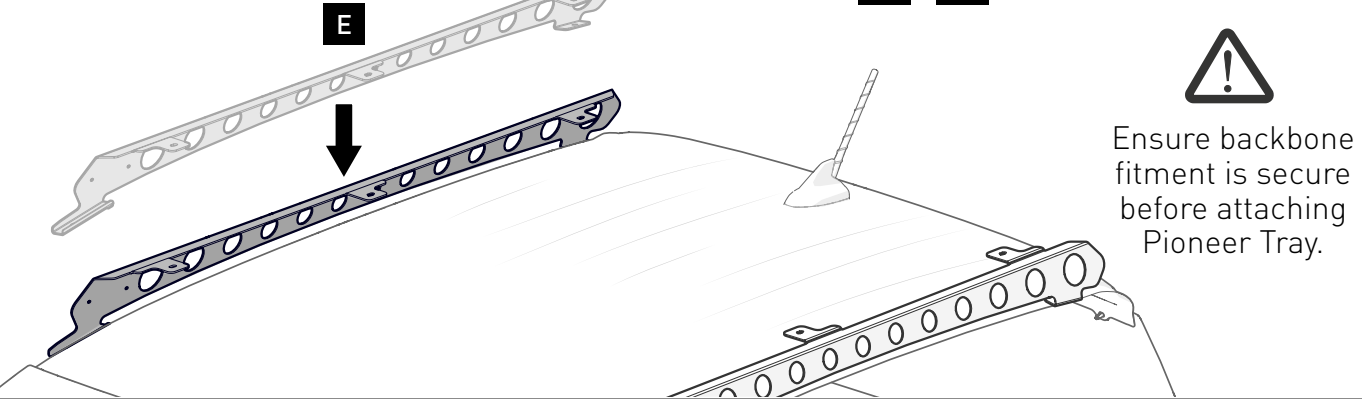
TWO-PERSON  
INSTALLATION



**38** Peel off adhesive backing and insert covers into ditch gaps

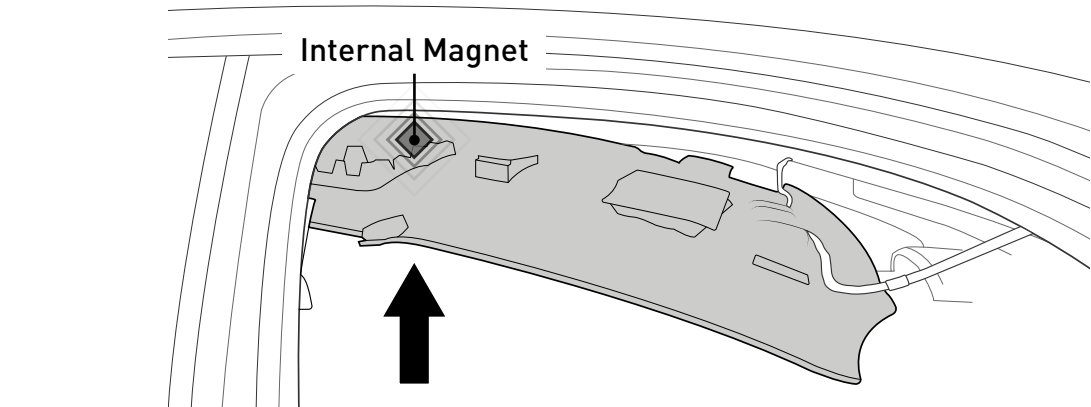


**39** Repeat Steps **30** - **38** to opposite side of vehicle.



## ROOF LINING RE-INSTALLATION

**40** Complete Steps **1** - **21** in reverse using notes on **Page 19-20** for re-installation guides.

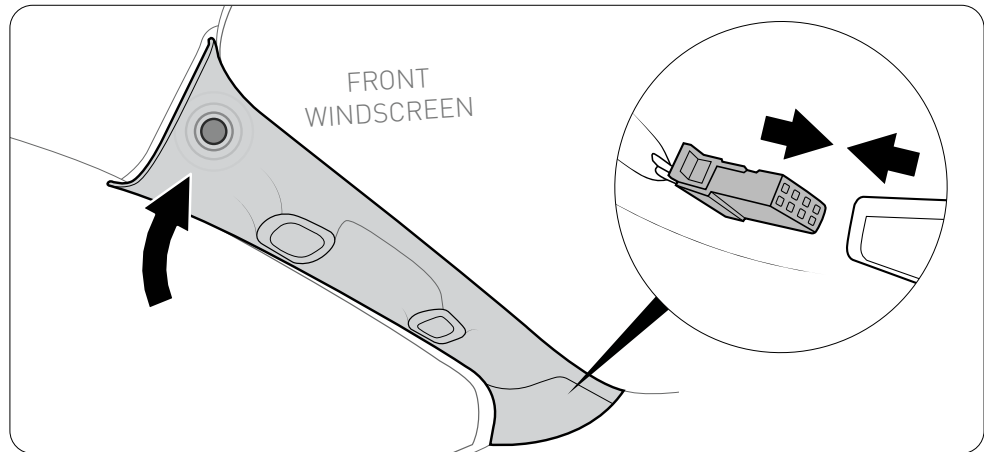


Re-clip **A-pillar** cover:

**NOTE:** Reclip wire at base near speakers

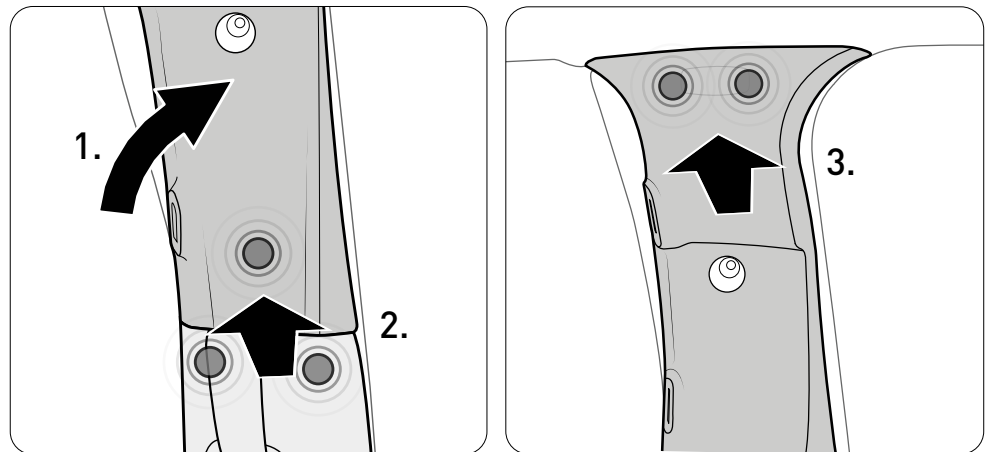
**NOTE FOR AMAROK:**

Step not required.  
(**A-pillar** cover not removed).



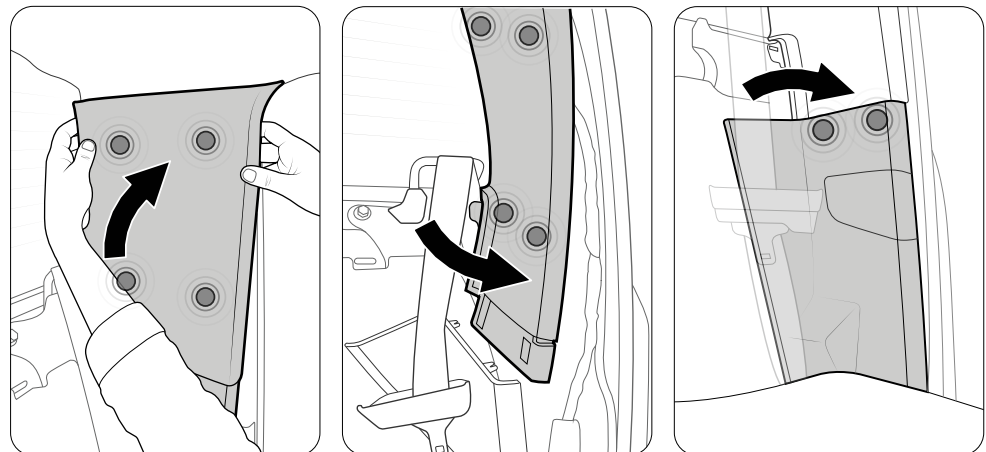
Re-clip **B-pillar** cover:

**NOTE:** Reconnect the upper cover to the lower cover. Then starting at the bottom, push both covers back into the body clips, working up towards the top.



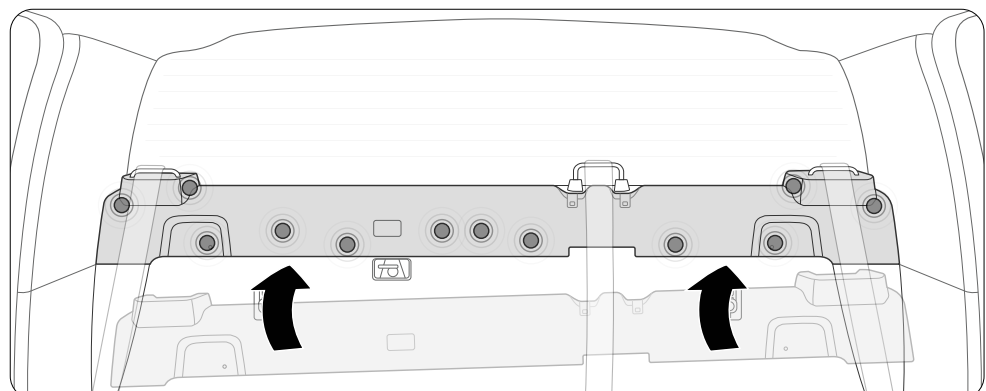
Re-clip **C-pillar** cover:

**NOTE:** Connect upper cover to top of lower cover, then push both back onto the vehicle body starting from the bottom and working up.



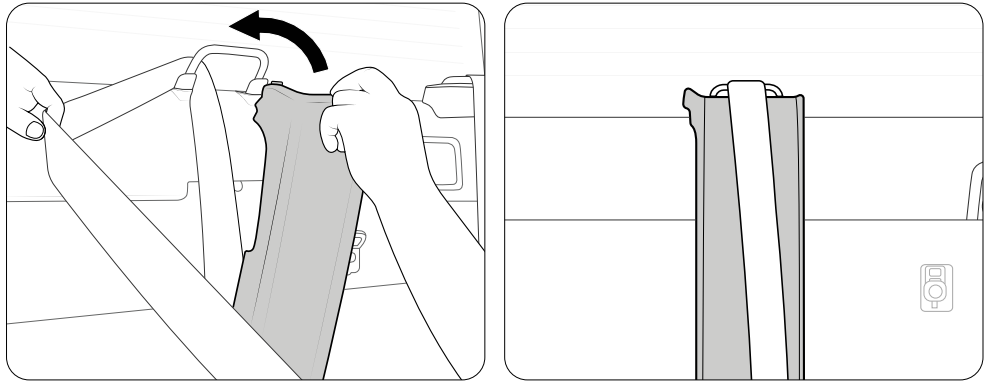
Re-attach **REAR** plastic panel:

**NOTE:** Ensure all 3 seat belts (left, centre and right) are pulled over the top of the rear plastic trim before clipping the trim back to the vehicle body.



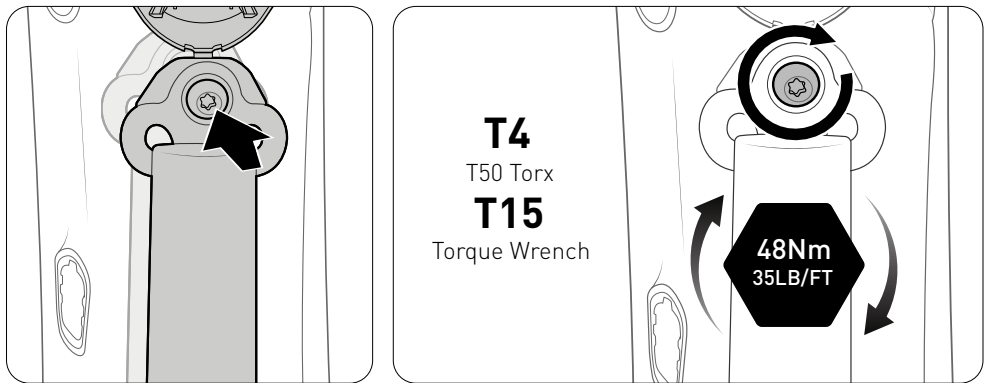
Re-attach **MIDDLE** seatbelt pillar cover:

**NOTE:** Ensure seatbelt sits on top of cover.



Re-torque **B-pillar** seatbelts:

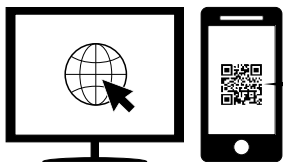
**NOTE:** Ensure seatbelt bolts are re-torqued to **48Nm (35lb/ft)**.



## PLATFORM INSTALLATION (Compatible with Pioneer 5 Series and 6 Series)

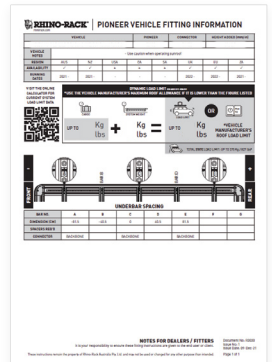
P3

41

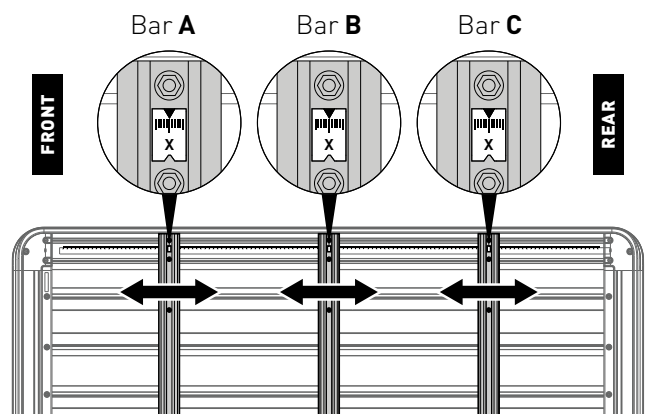
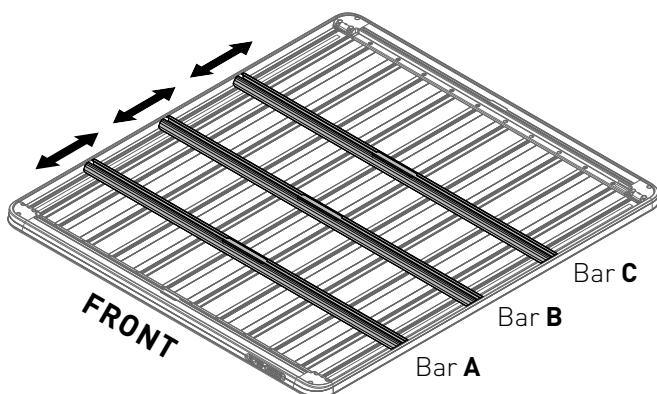


rhinorack.com/roof

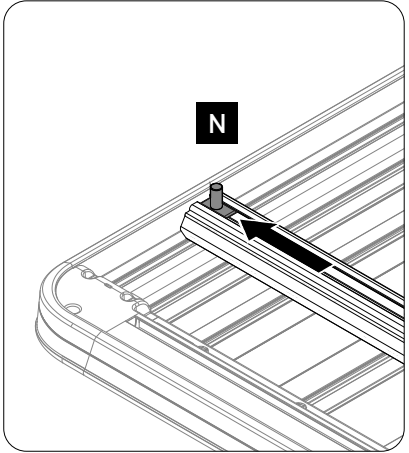
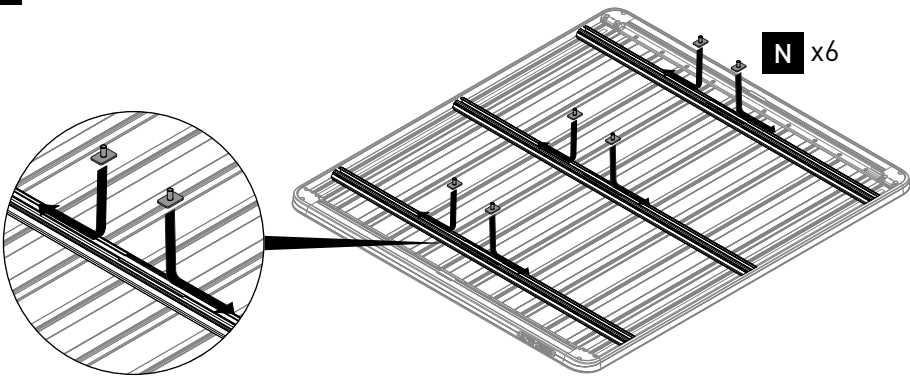
1. Complete **Fit my vehicle** journey
2. Select your **Product Solution**
3. Scroll down to '**Product Details**'
4. Select the '**INSTRUCTIONS**' tab to View the Fitting Chart
5. Space your Underbars to the **A, B & C** dimensions provided.



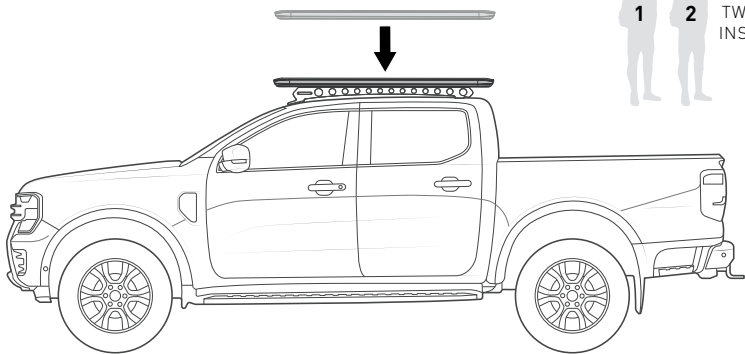
**VIEW FITTING CHART**  
Example only



42

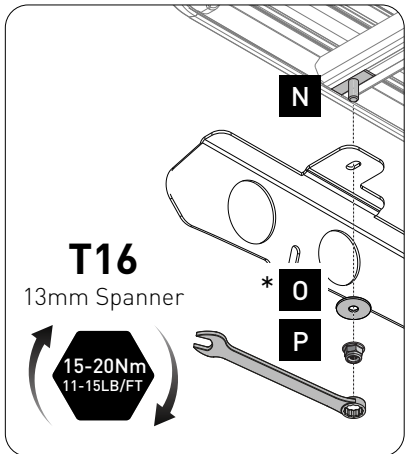


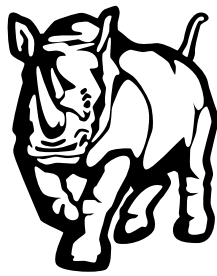
43



1 2 TWO-PERSON  
INSTALLATION

\*Ensure washer **O** is used





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