



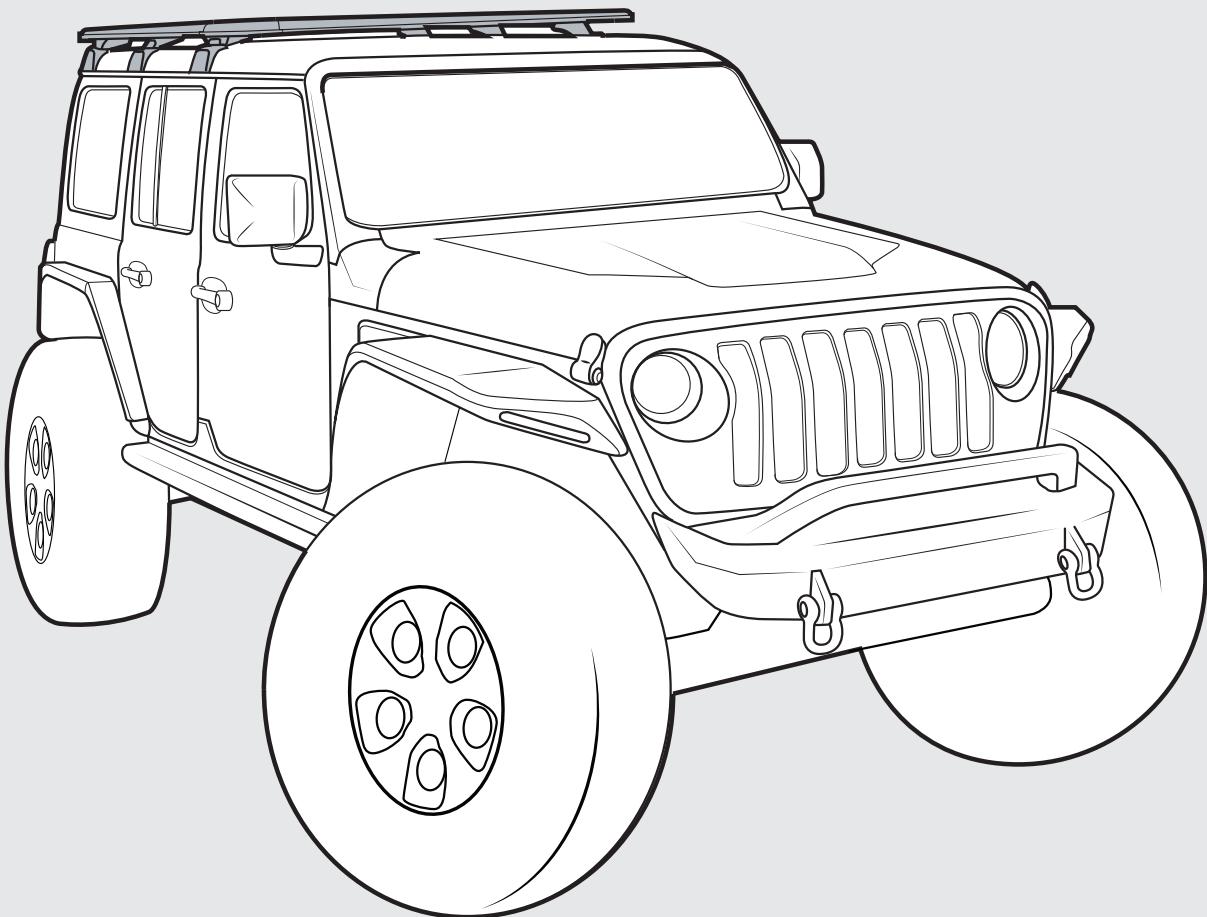
# RHINO-RACK®

## Jeep Wrangler JL 4-Door Backbone RJLB1

**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

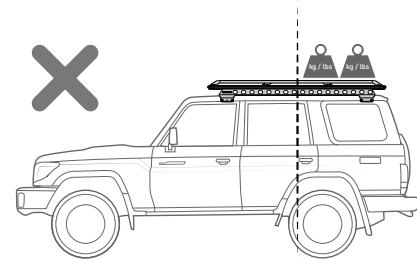
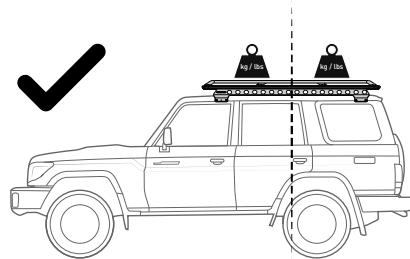
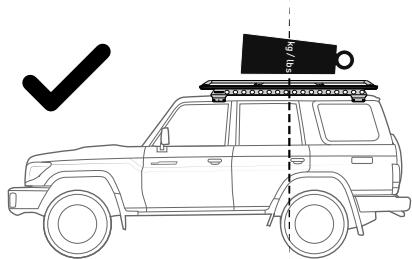
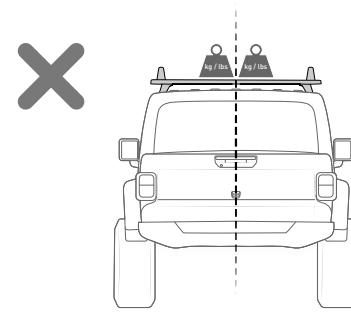
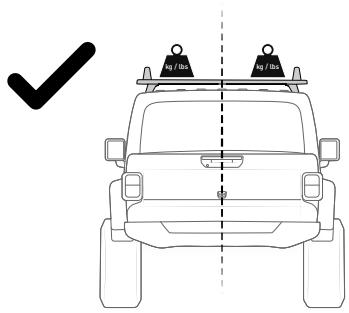
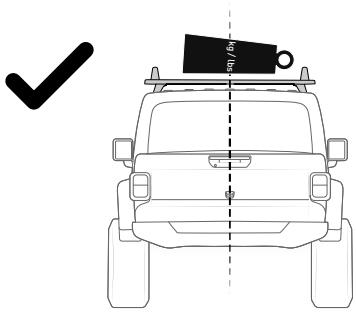


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[Rhinorack.com](http://Rhinorack.com)

Doc. No: R1823  
Issue No: 03  
Issue Date: 25/06/2025

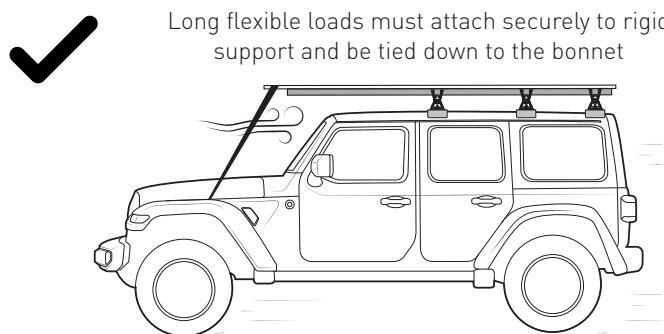
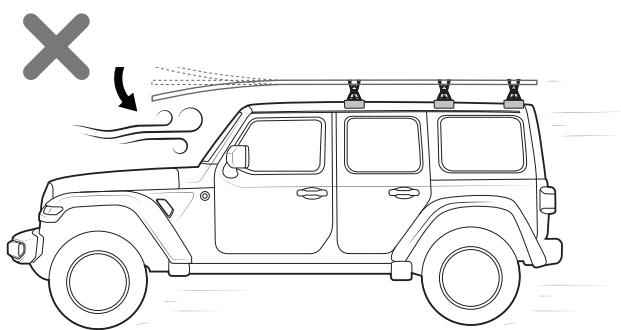
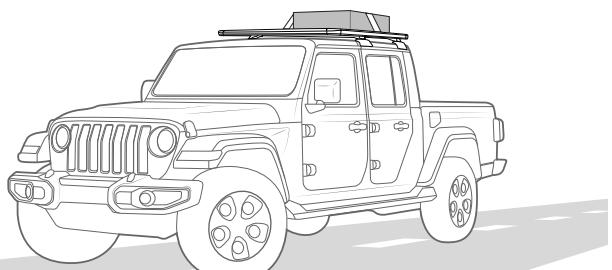


Distribute loads evenly and longitudinally as low as possible over the span.

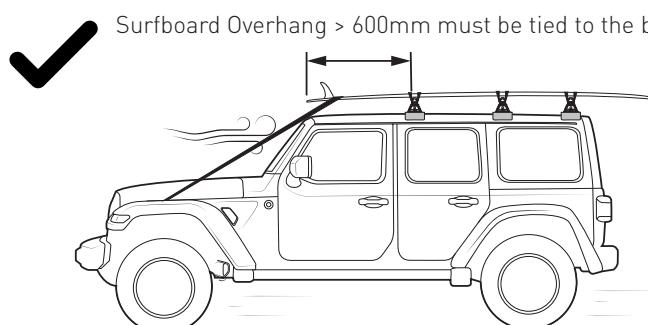
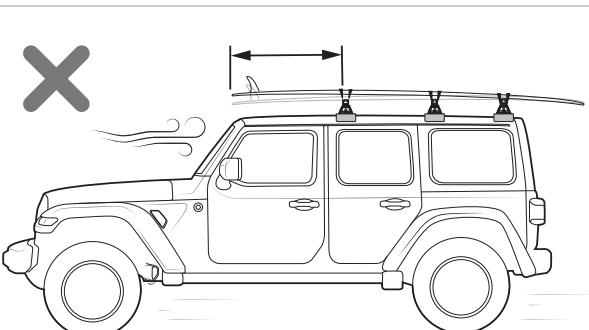
Avoid point loads concentrated at the front or rear.

Exercise extreme care when transporting wind-resistant loads. Special consideration must be taken when cornering and braking.

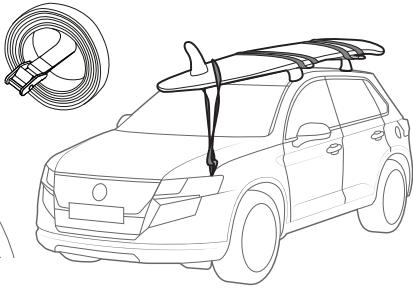
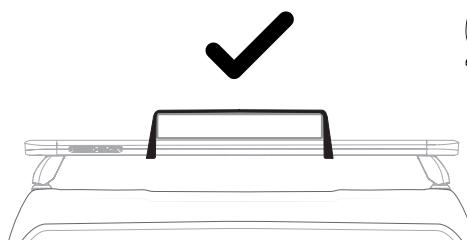
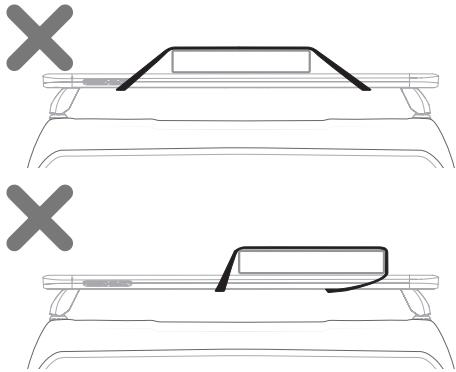
Off-road conditions can be much more rigorous. Extreme care must be taken on any driven path that does not contain a surface protection layer (tar/bitumen).



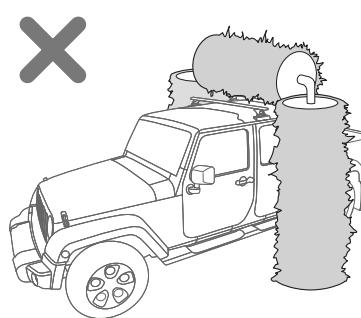
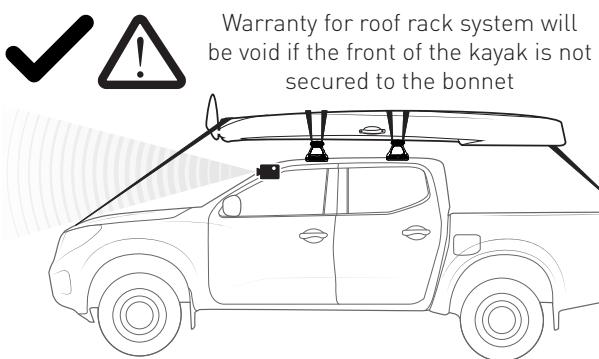
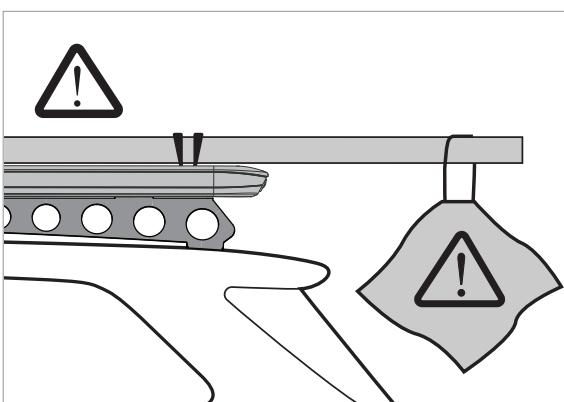
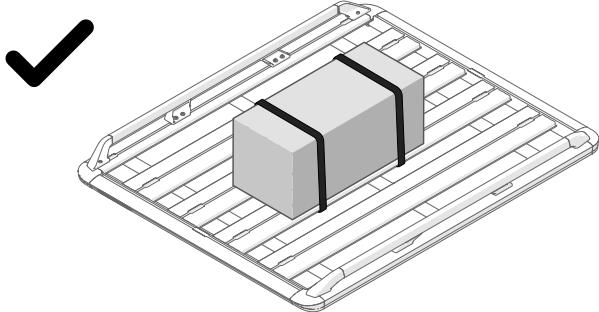
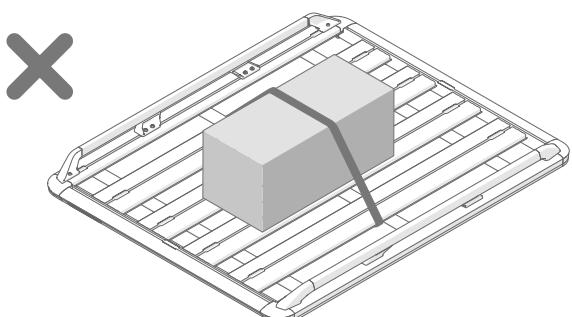
Long flexible loads must attach securely to rigid support and be tied down to the bonnet



Surfboard Overhang > 600mm must be tied to the bonnet



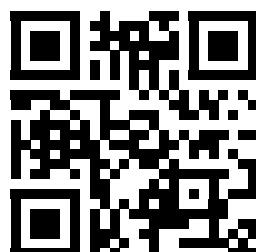
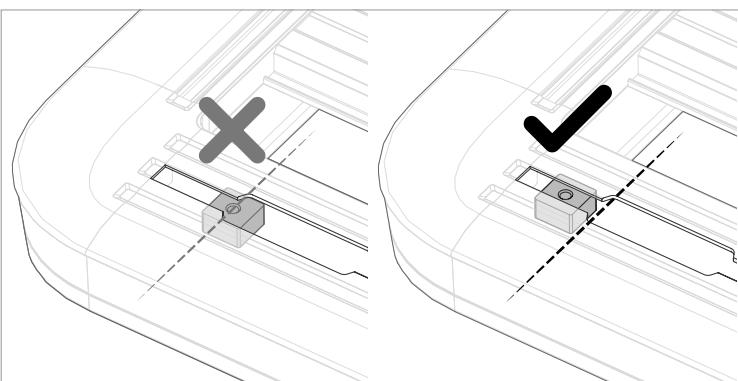
Use only non-stretch fastening ropes or straps to attach cargo to roof racks



Racks must be removed when vehicle is put through an automatic car wash.



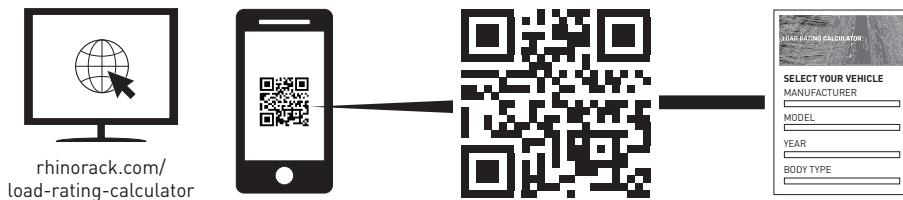
Ensure Ladder is well supported on the ground to support tent. Take extreme caution when climbing heights above 1.2m/4ft.



[Youtube.com/Rhinorackaustralia](https://Youtube.com/Rhinorackaustralia)

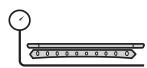
## Carrying Capacity

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:

 **M6** 4-5Nm  
3-4lbs/ft

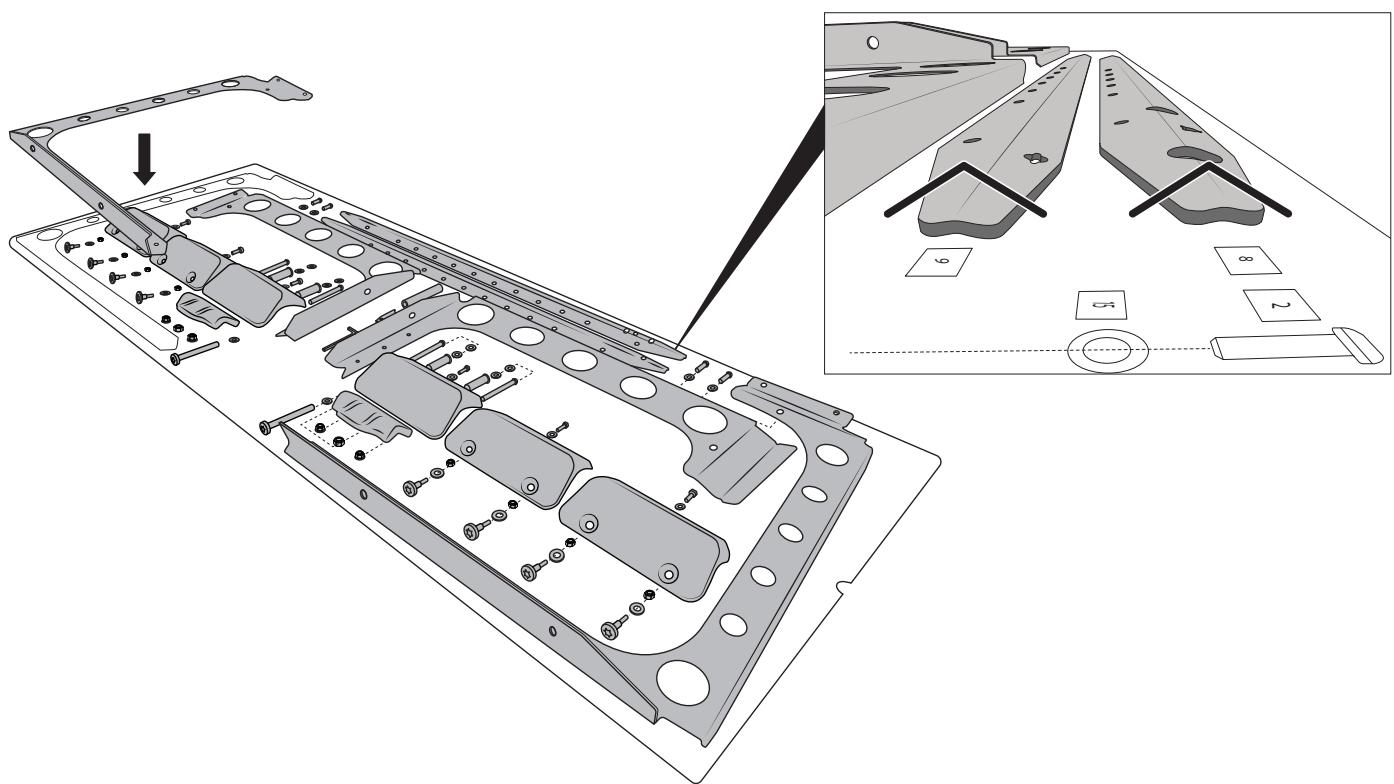
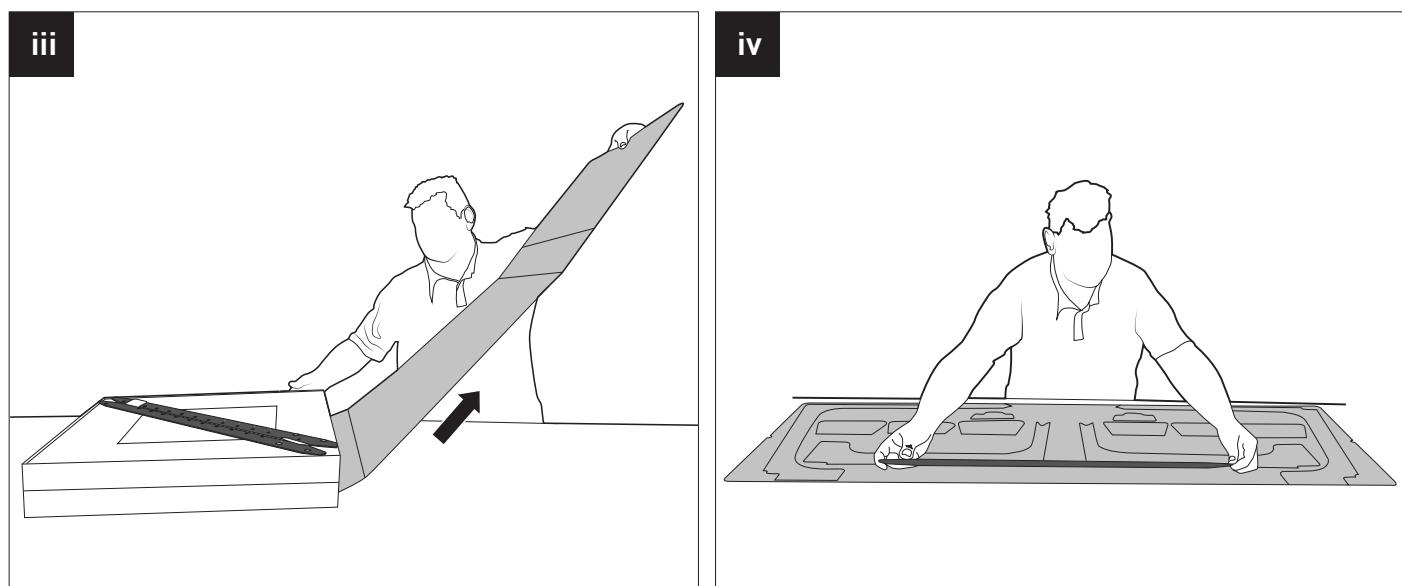
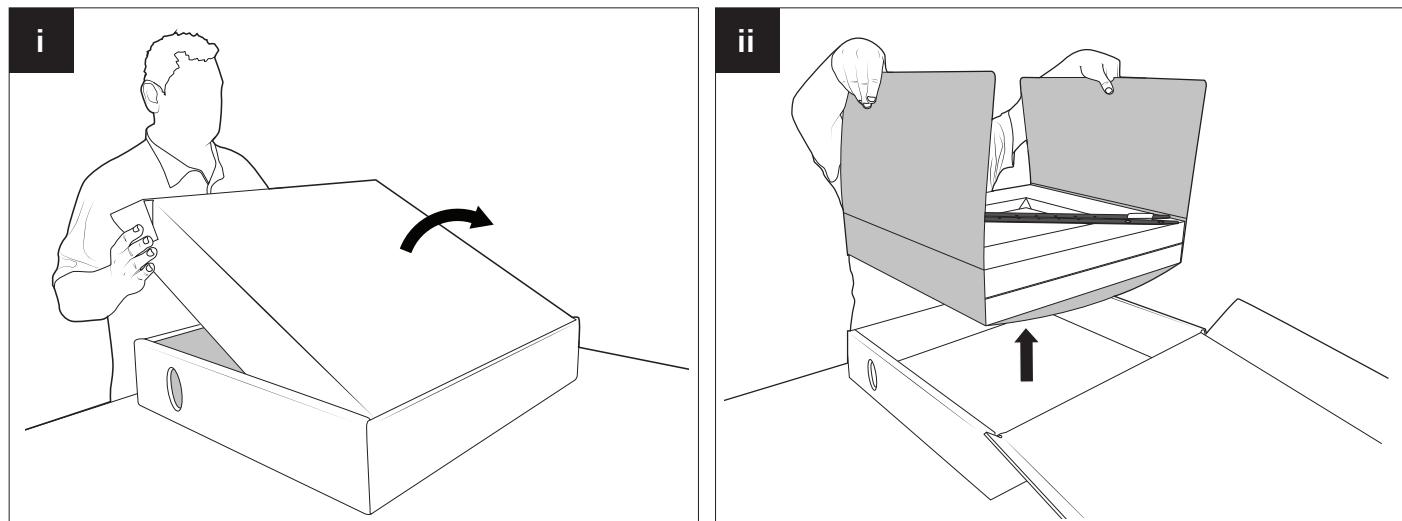
 **M8** 8-10Nm  
6-7.5lbs/ft

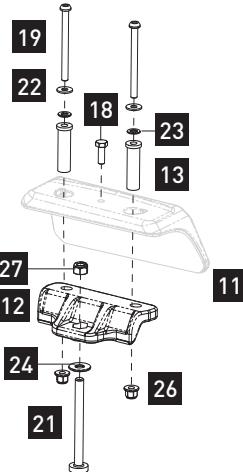
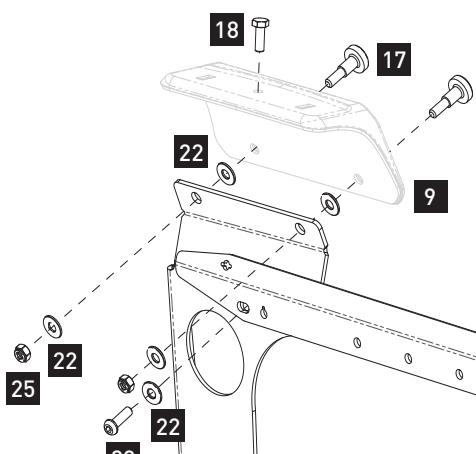
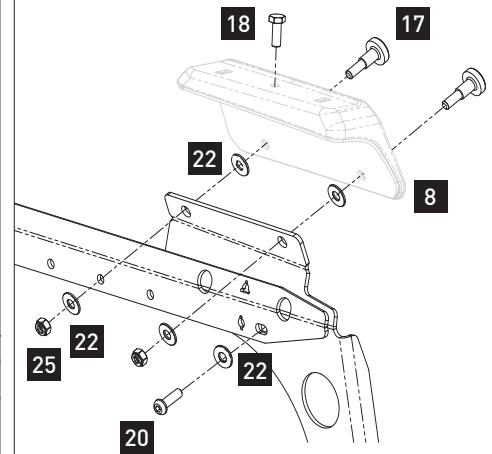
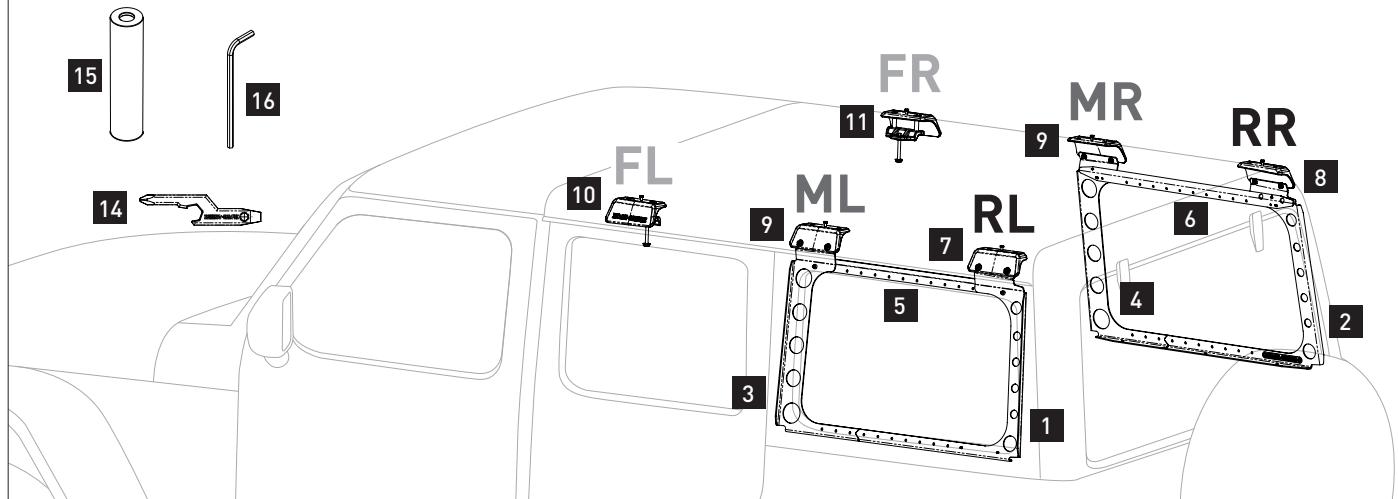
 **M10** 16-18Nm  
12-13lbs/ft

## 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.

## PREPARE FOR ASSEMBLY. PREPARARSE PARA EL MONTAJE



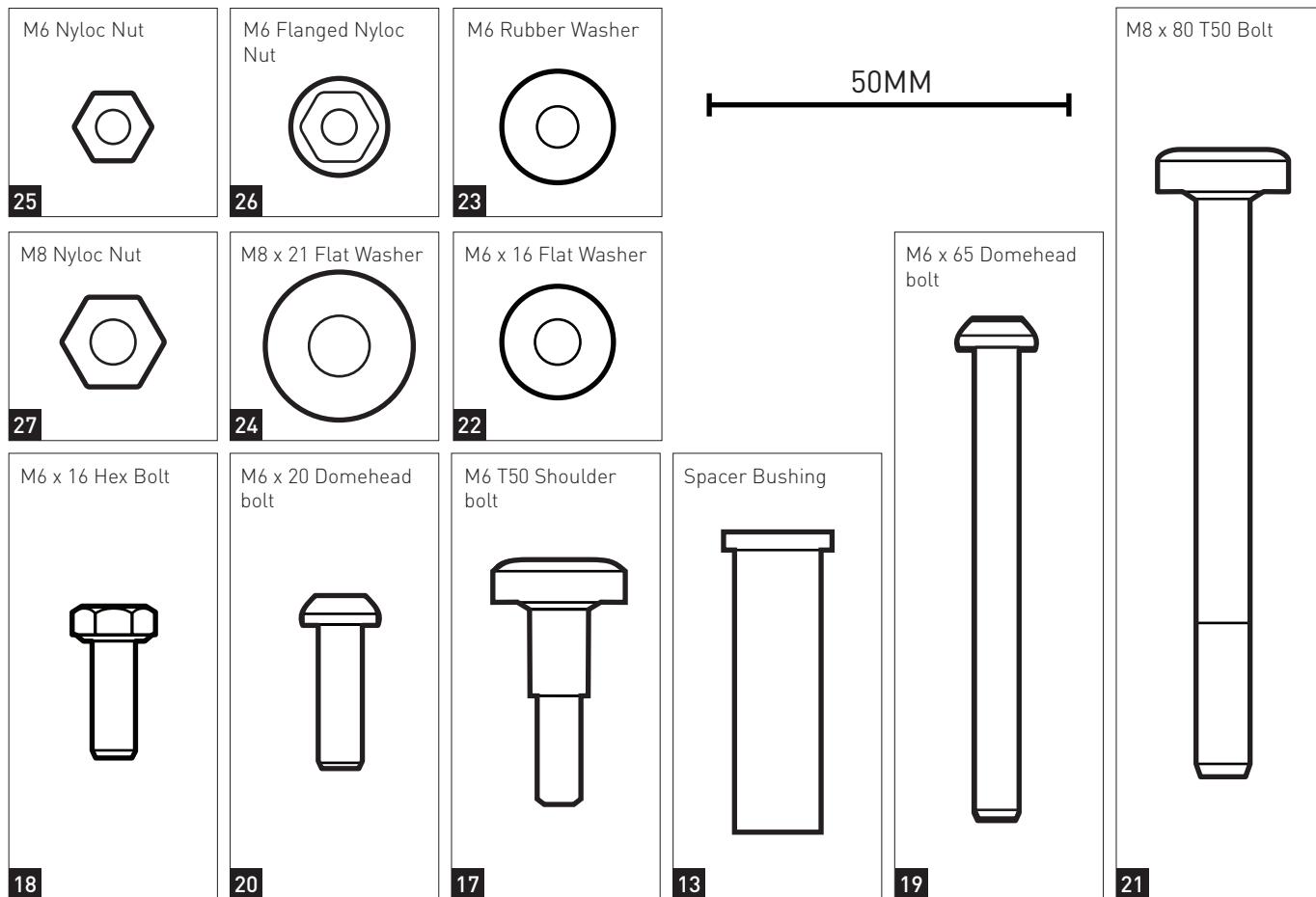
**PARTS LIST** (Begin install/assembly on page 8)**FR** Same fasteners used for **FL****MR** Same fasteners used for **ML****RR** Same fasteners used for **RL**

Item	Description	Qty
1	Rear Left Upright	1
2	Rear Right Upright	1
3	Mid Left Upright	1
4	Mid Right Upright	1
5	Left Horizontal	1
6	Right Horizontal	1
7	Rear Left Casting RL	1
8	Rear Right Casting RR	1
9	Middle Casting M	2
10	Front Left Casting FL	1
11	Front Right Casting FR	1
12	Rollbar Casting	2
13	Spacer Bushing	4
14	Spacer Multitool	1

15	12.5mm Drill Stop	1
16	4mm Allen Key	1
17	M6 T50 Shoulder Bolt	8
18	M6 x 16 Hex Bolt	6
19	M6 x 65 Domehead Bolt	4
20	M6 x 20 Domehead Bolt	4
21	M8 x 80 T50 Domehead Bolt	2
22	M6 x 16 Flat Washer	24
23	M6 Rubber Washer	4
24	M8 x 21 Flat Washer	2
25	M6 Nyloc Nut	8
26	M6 Flanged Nyloc Nut	4
27	M8 Nyloc Nut	-
28	Instructions	1

**Safety Gear Required:****Tools Required:**

- T1** - Power Drill
- T2** - 12.5mm - 1/2" Drill Bit
- T3** - 6mm - 1/4" Drill Bit
- T4** - 8.5mm - 5/16" Drill Bit
- T5** - Vacuum cleaner
- T6** - Butyl Mastic / Silicone Sealant
- T7** - T50 Bit (Supplied in Jeep Ratchet tool)
- T8** - Masking Tape
- T9** - Knife
- T10** - Marker
- T11** - Ruler

**HARDWARE IDENTIFICATION CHART****NOTES**


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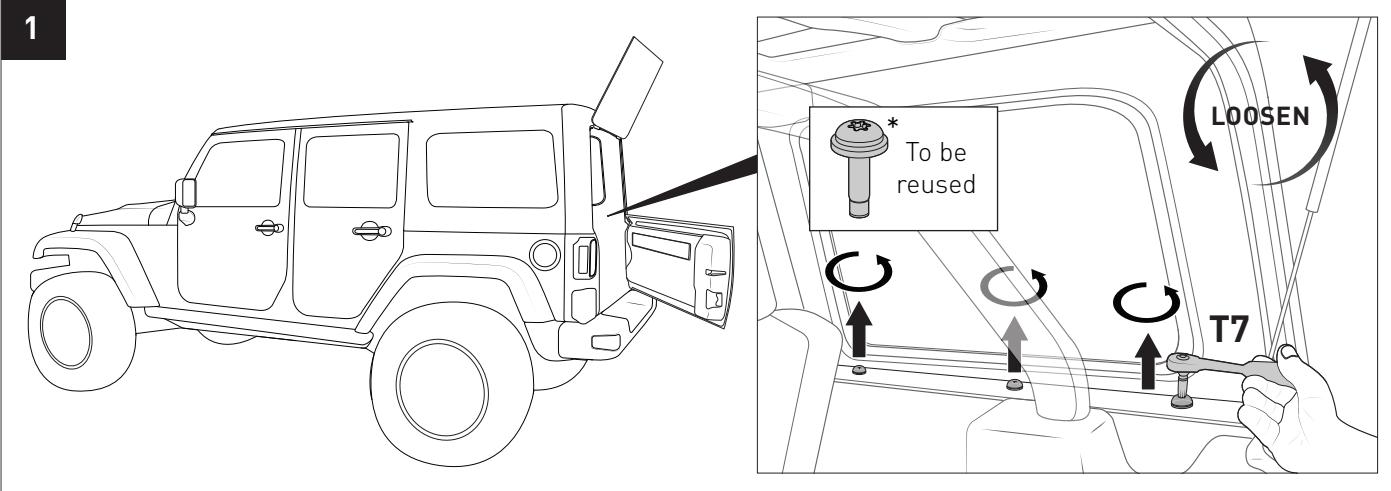


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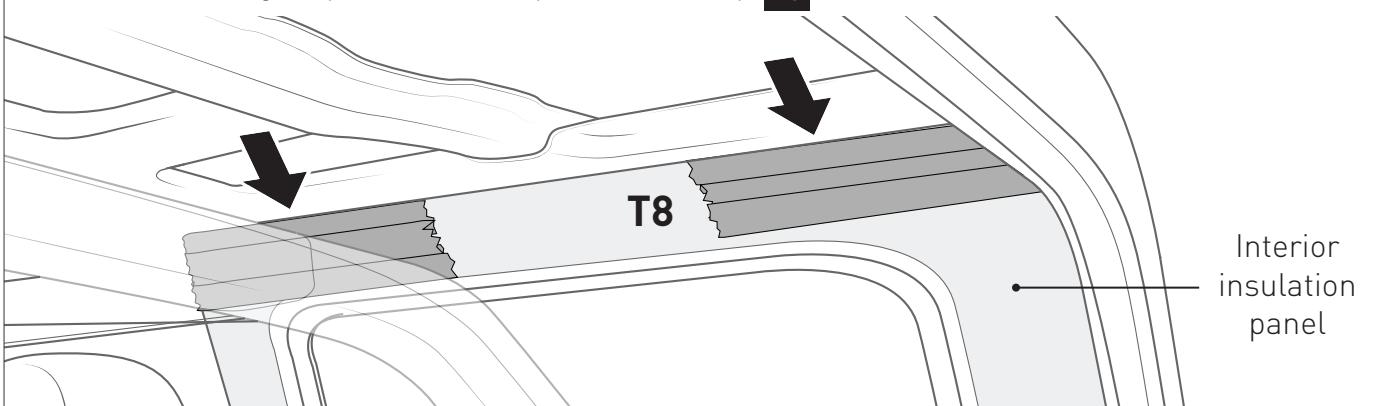


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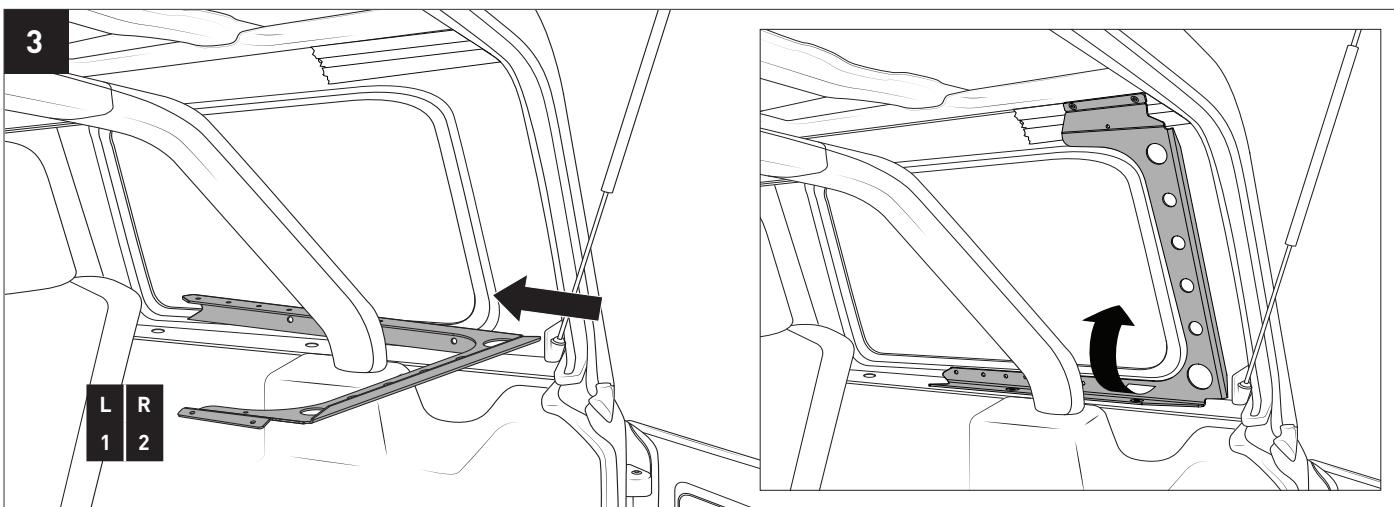
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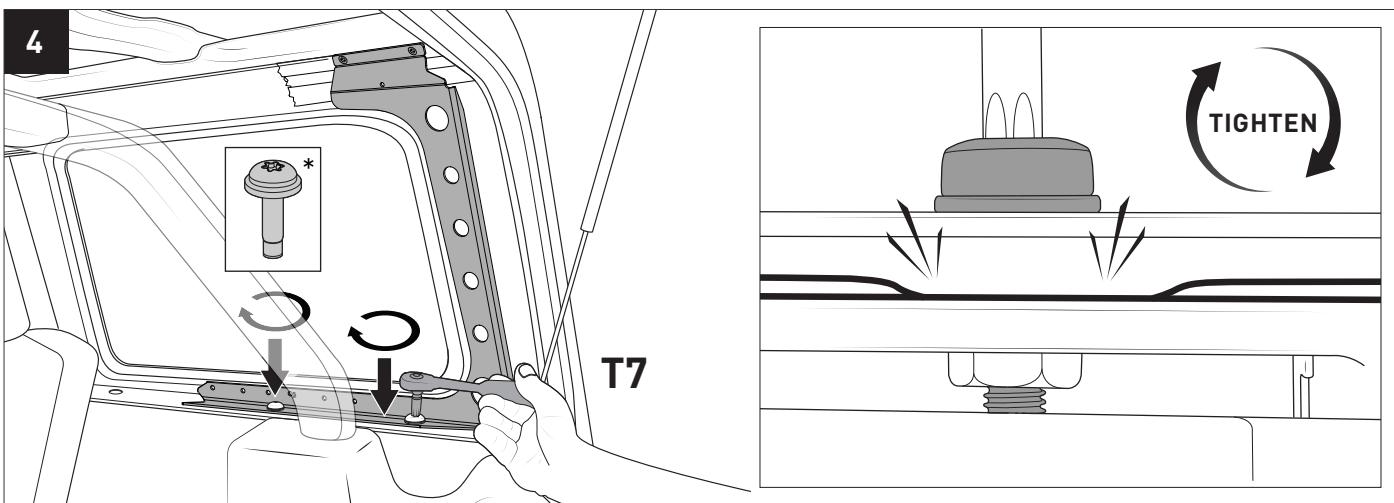
2 If interior insulation panel is installed around the canopy windows, continue with the following steps. Otherwise, proceed to Step **16**



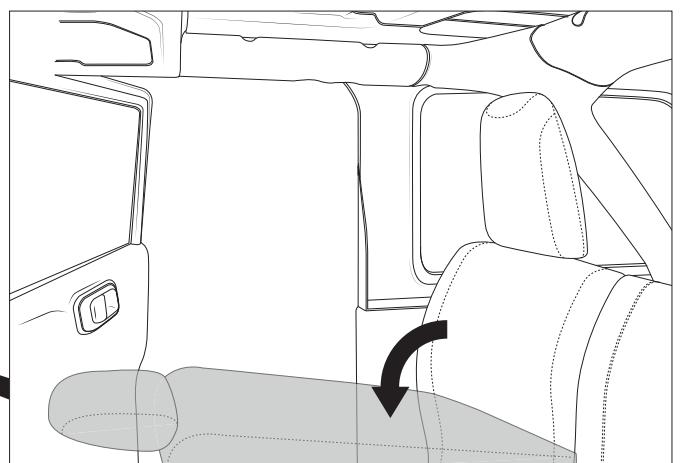
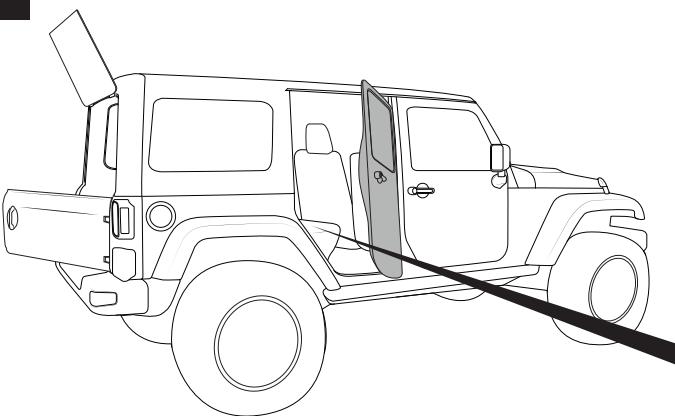
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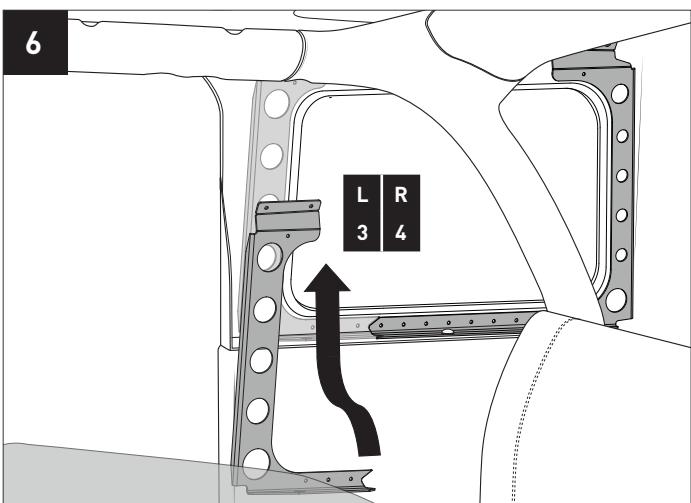
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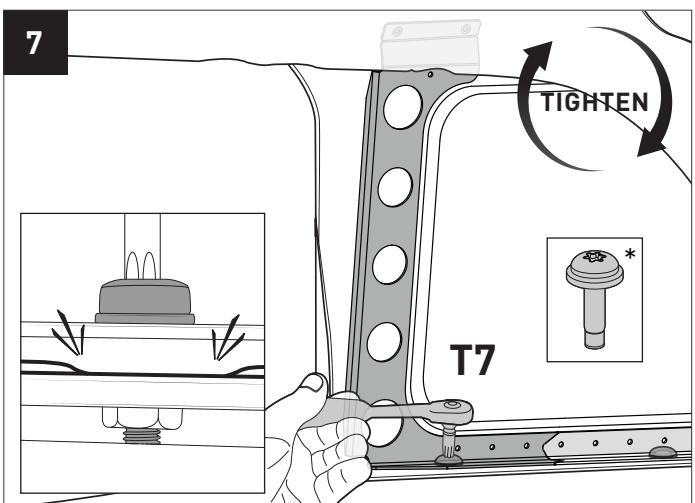
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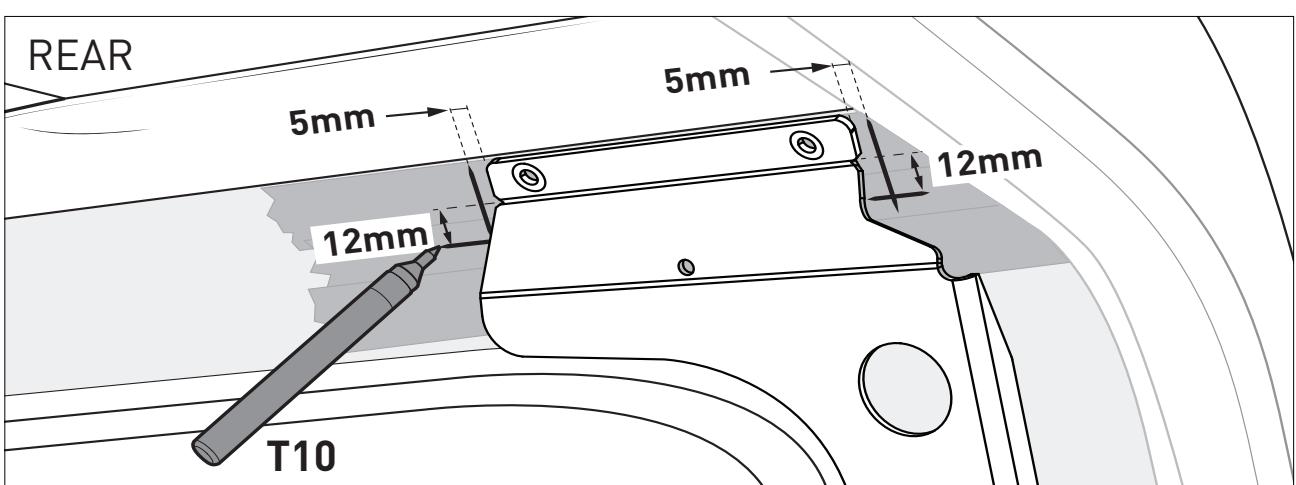
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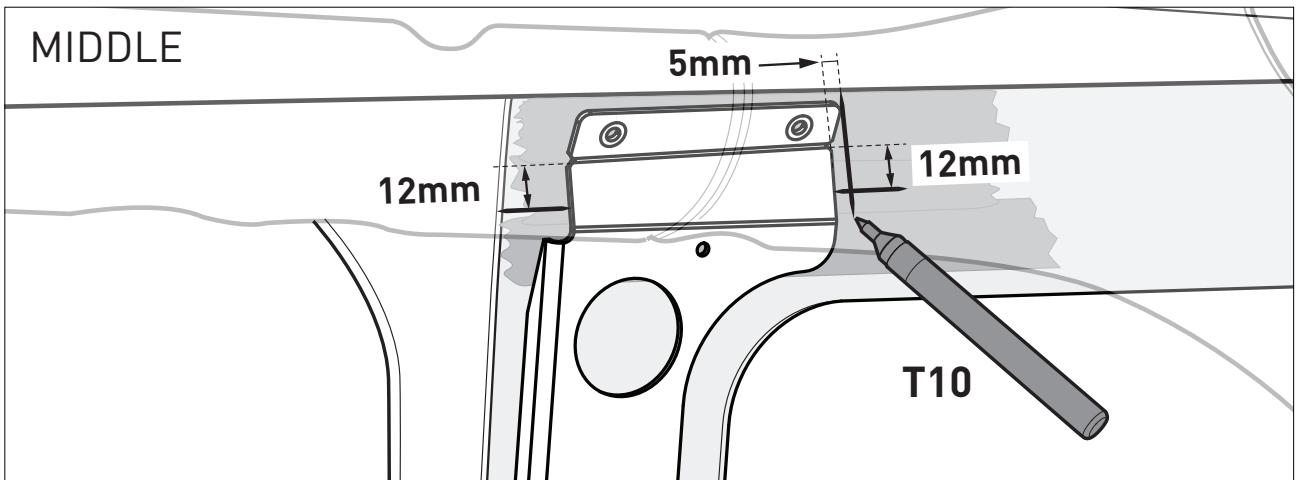
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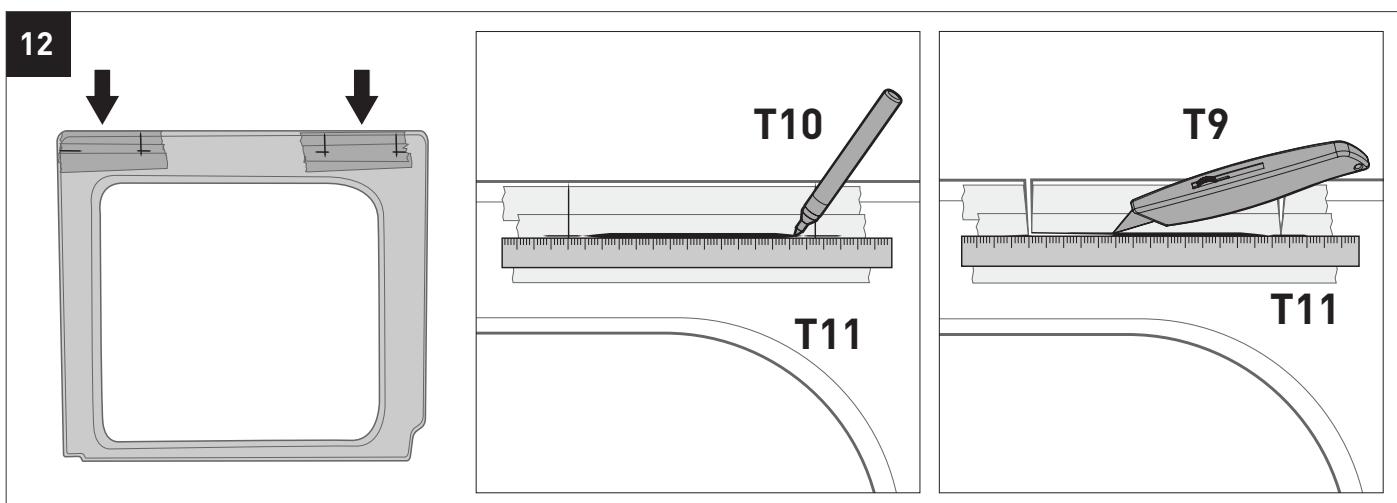
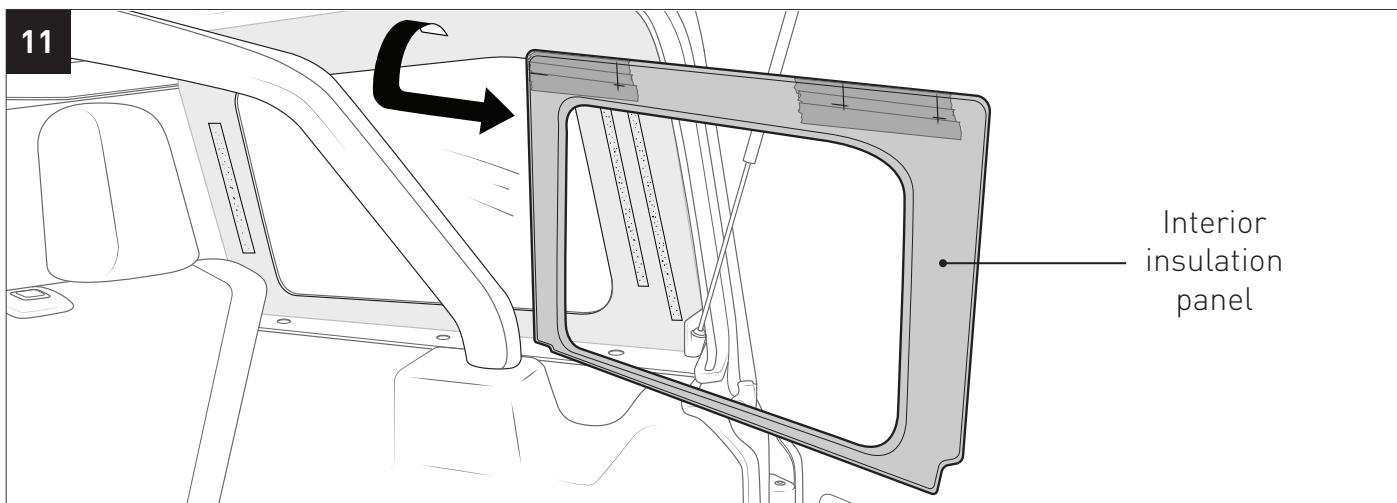
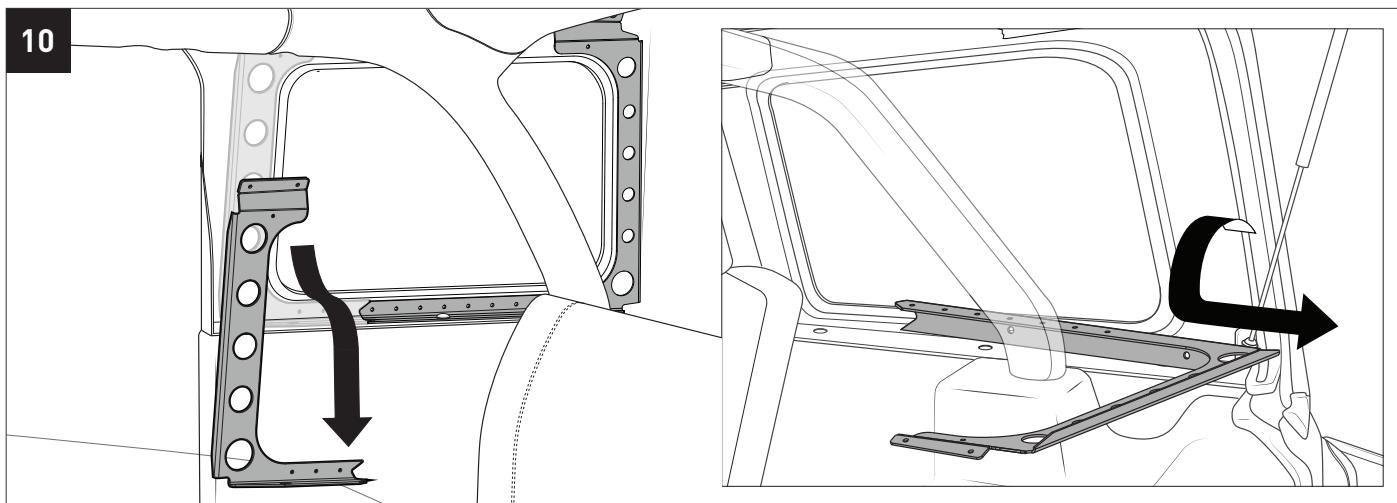
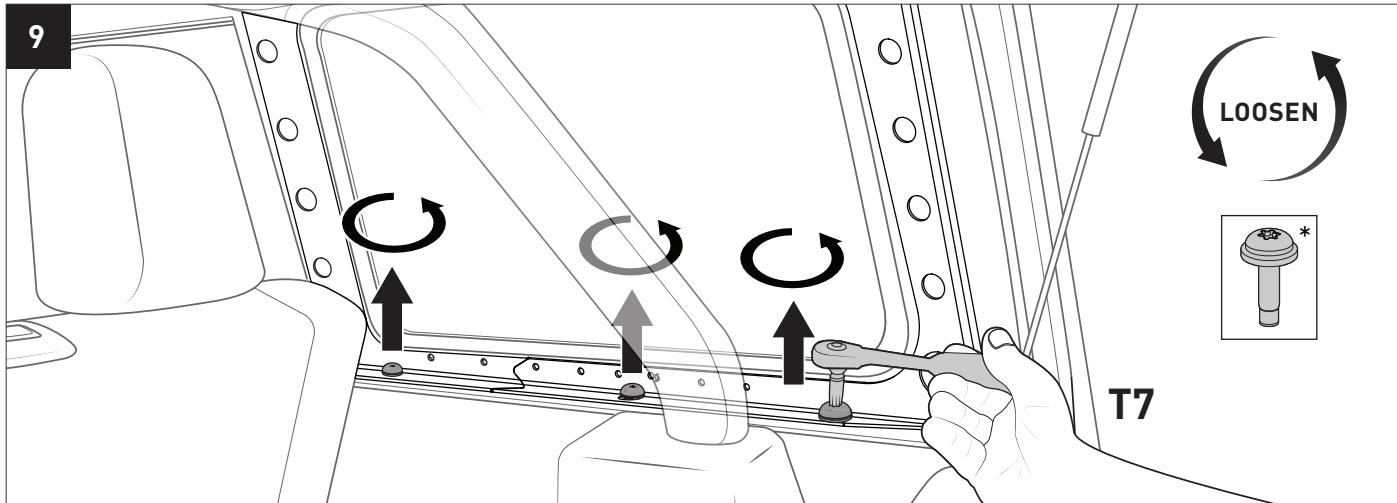


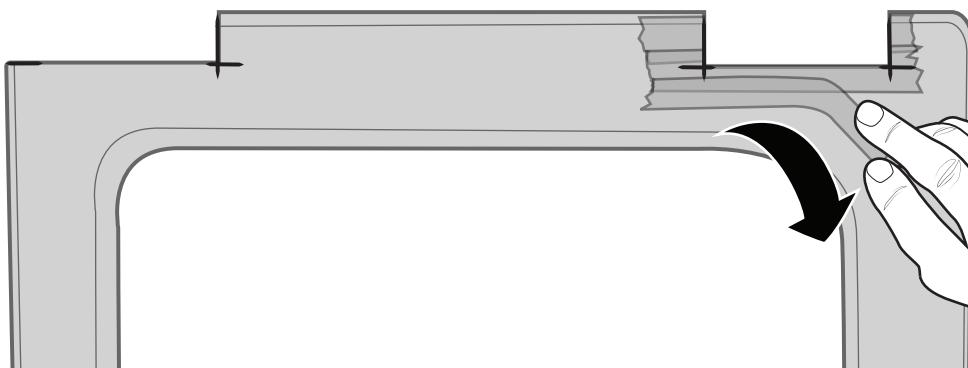
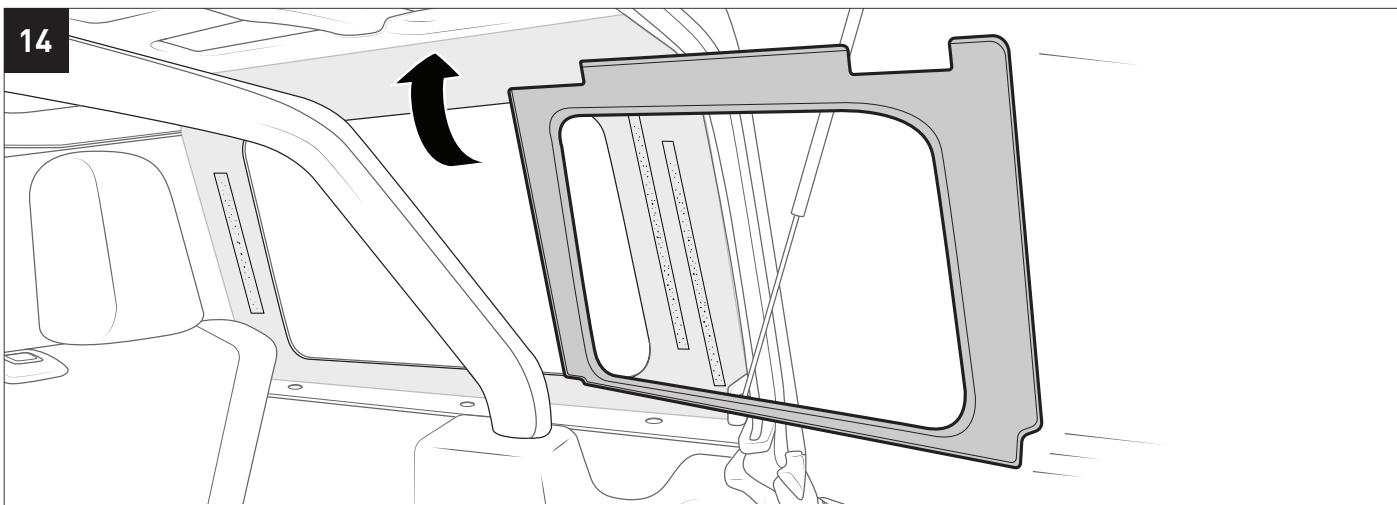
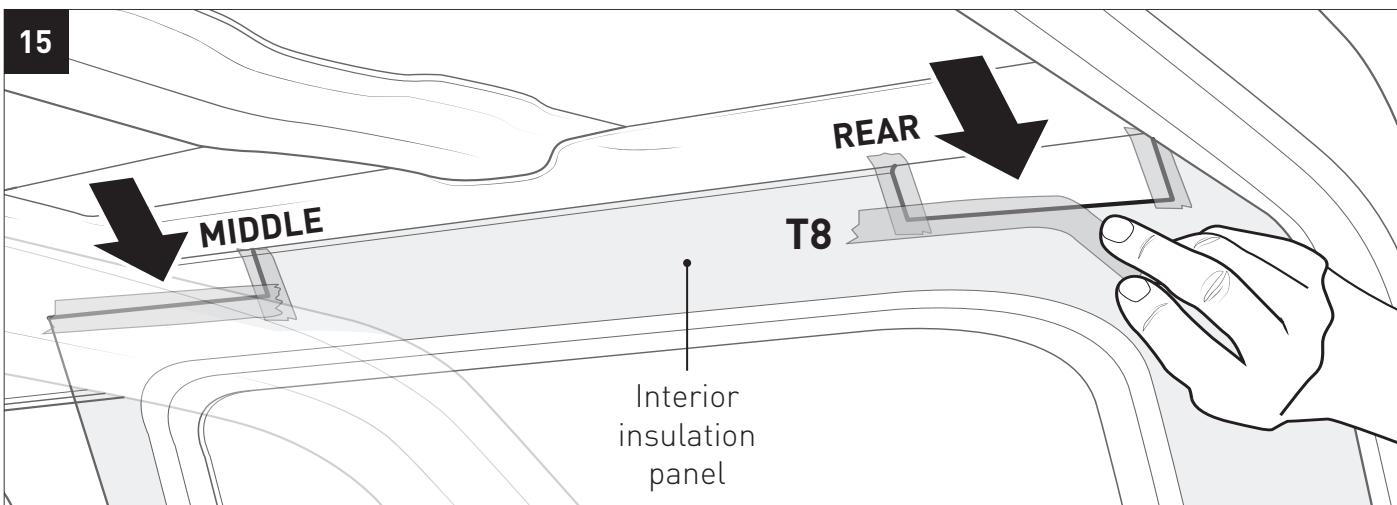
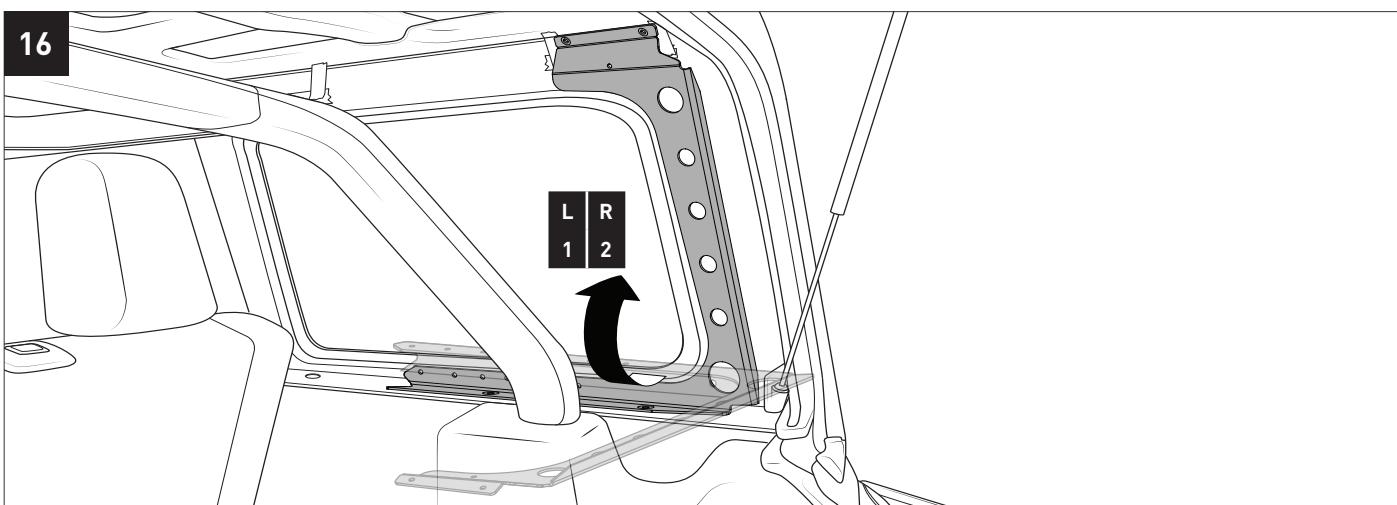
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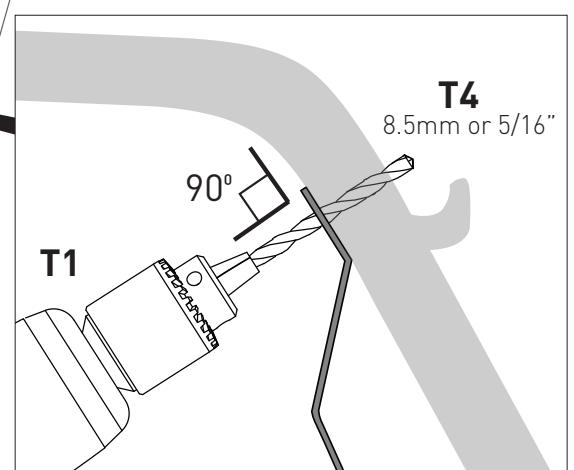
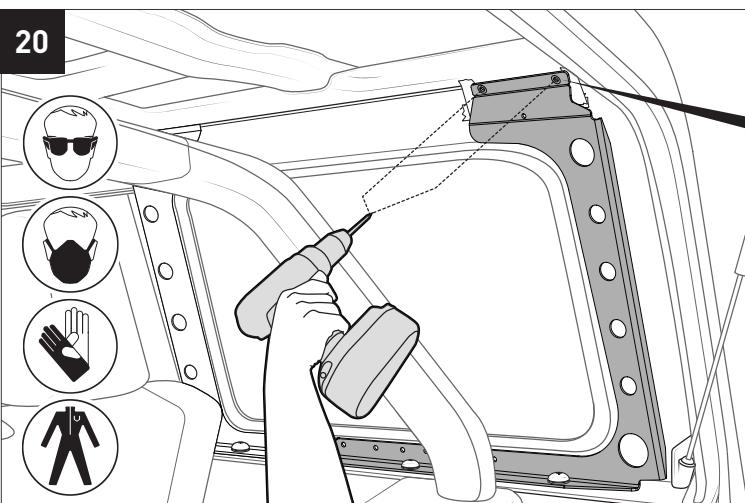
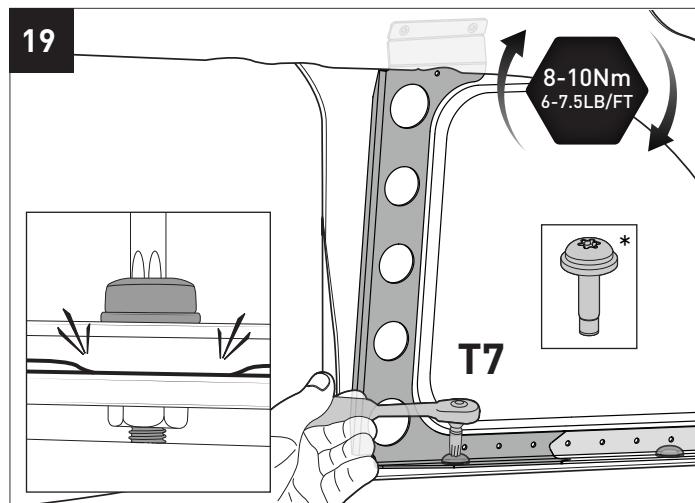
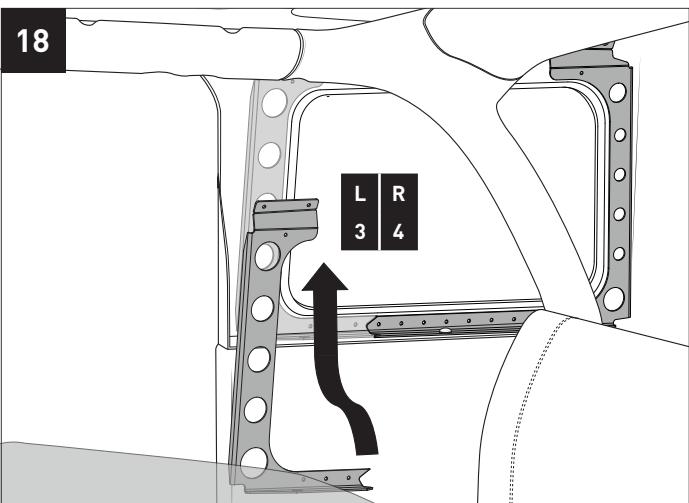
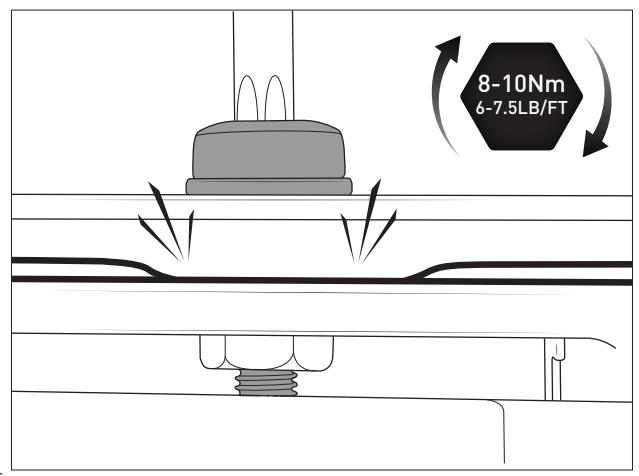
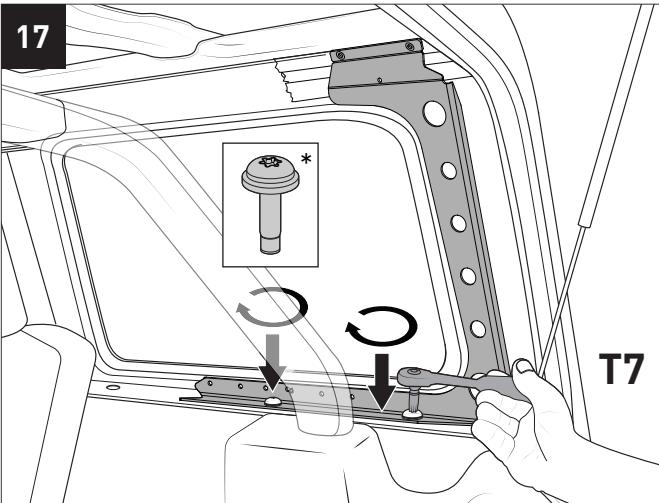


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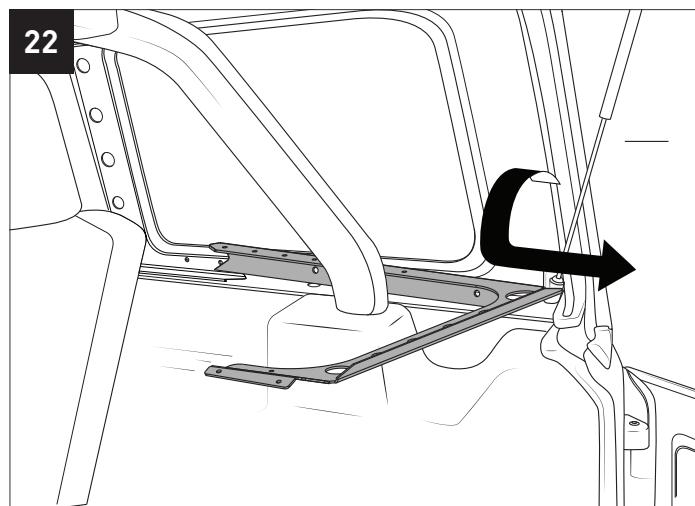
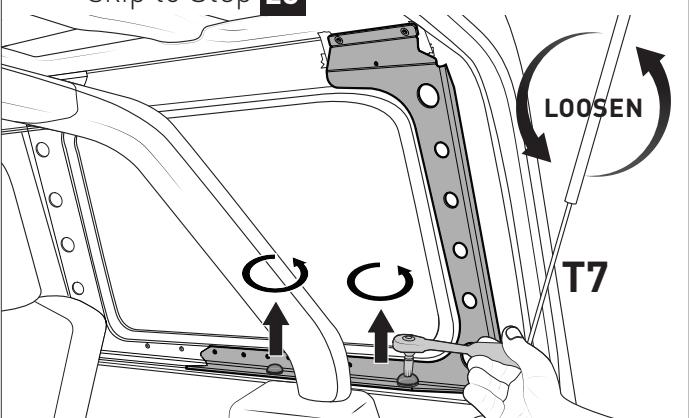


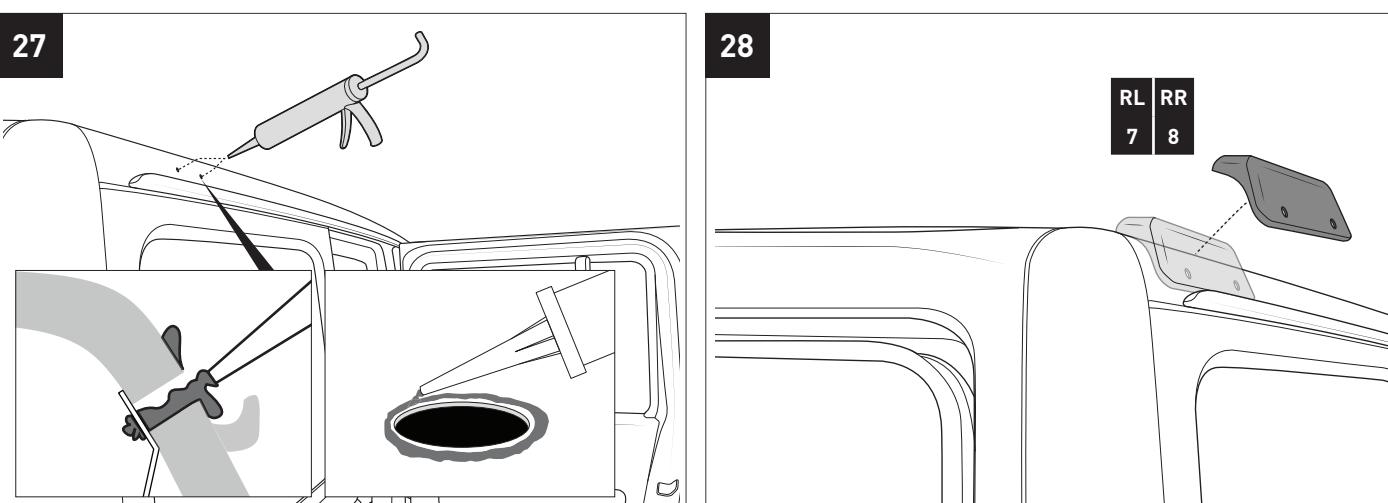
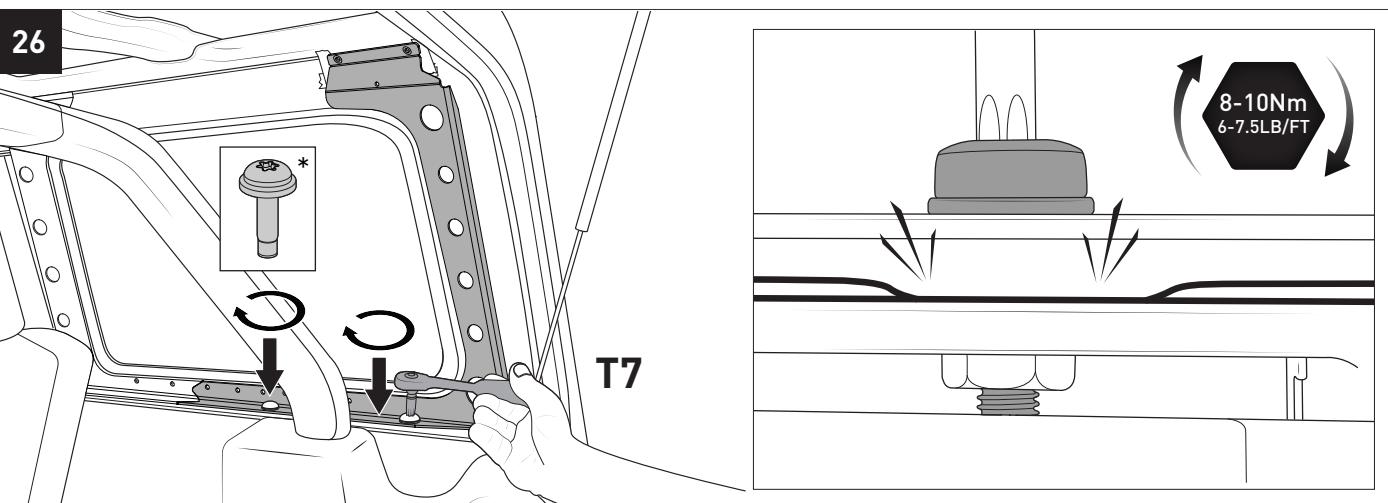
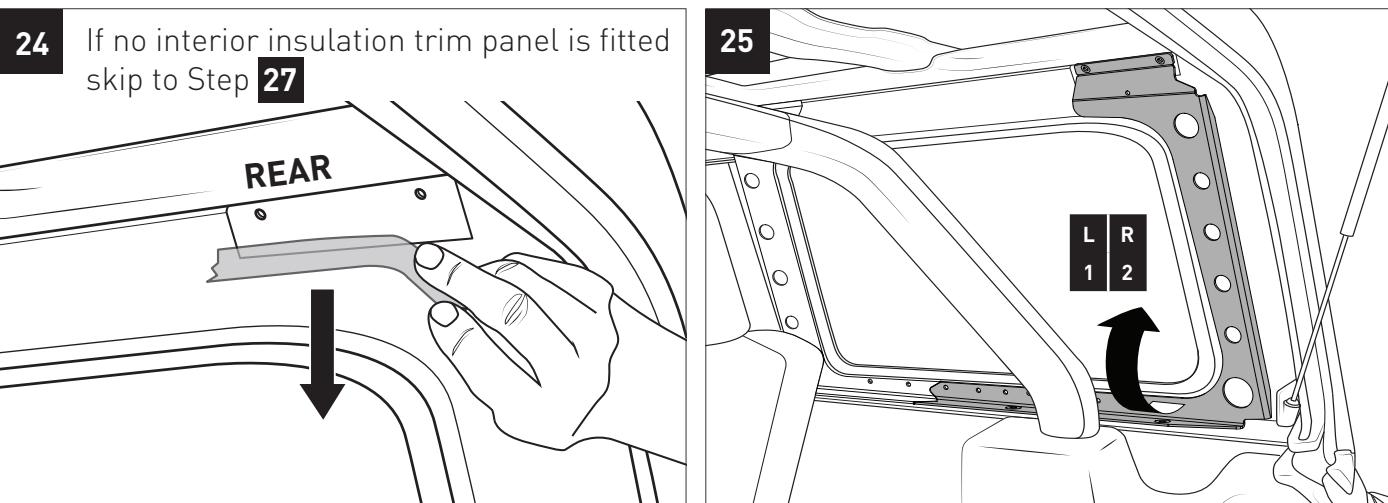
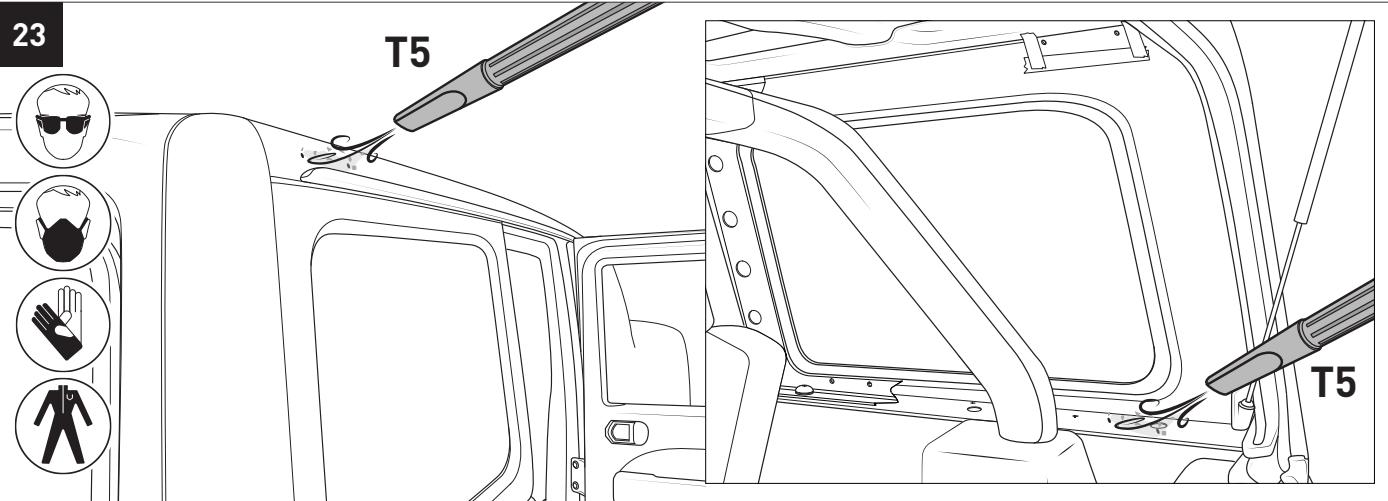


**13****14****15****16**

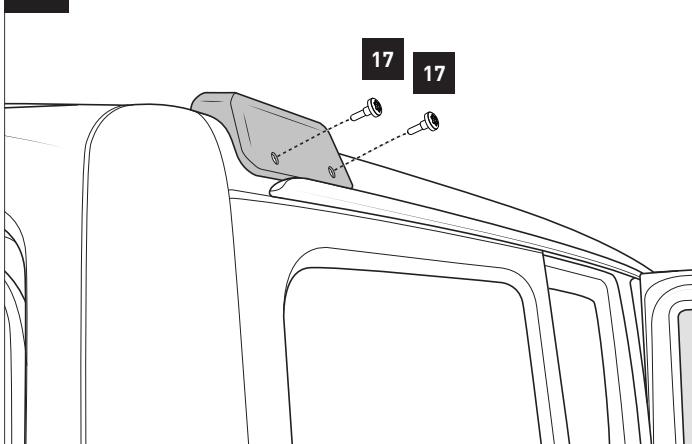


21 If no interior insulation trim panel is fitted skip to Step 23

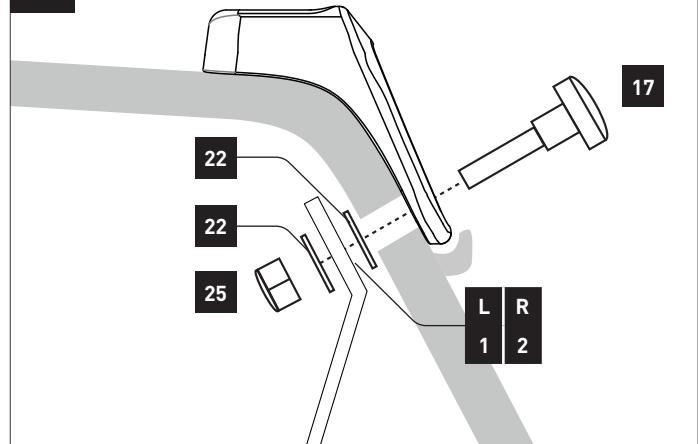




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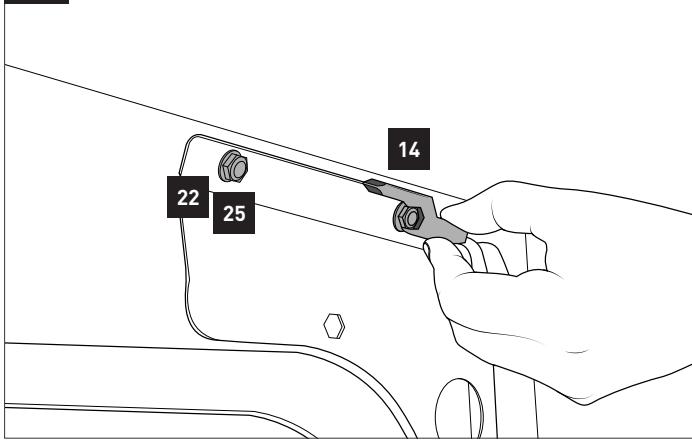


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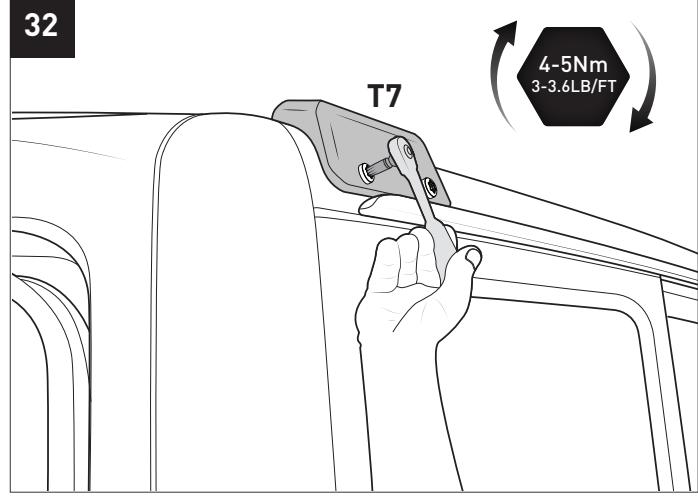


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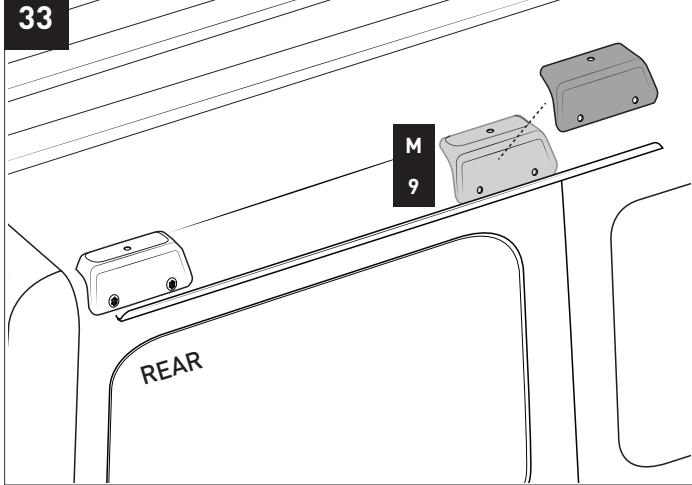
## INTERNAL CANOPY VIEW



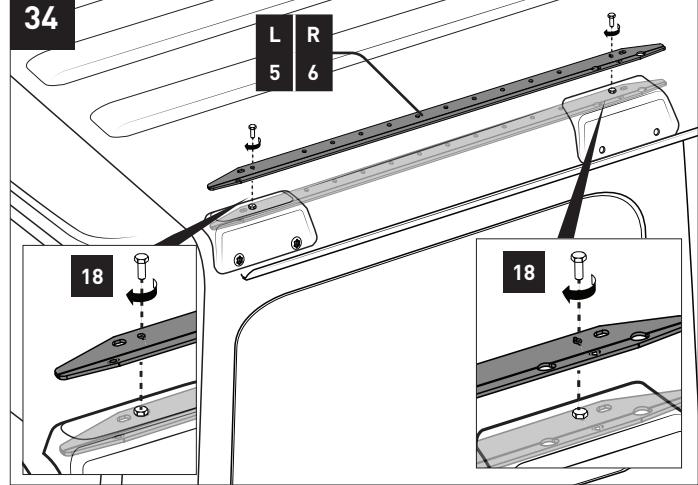
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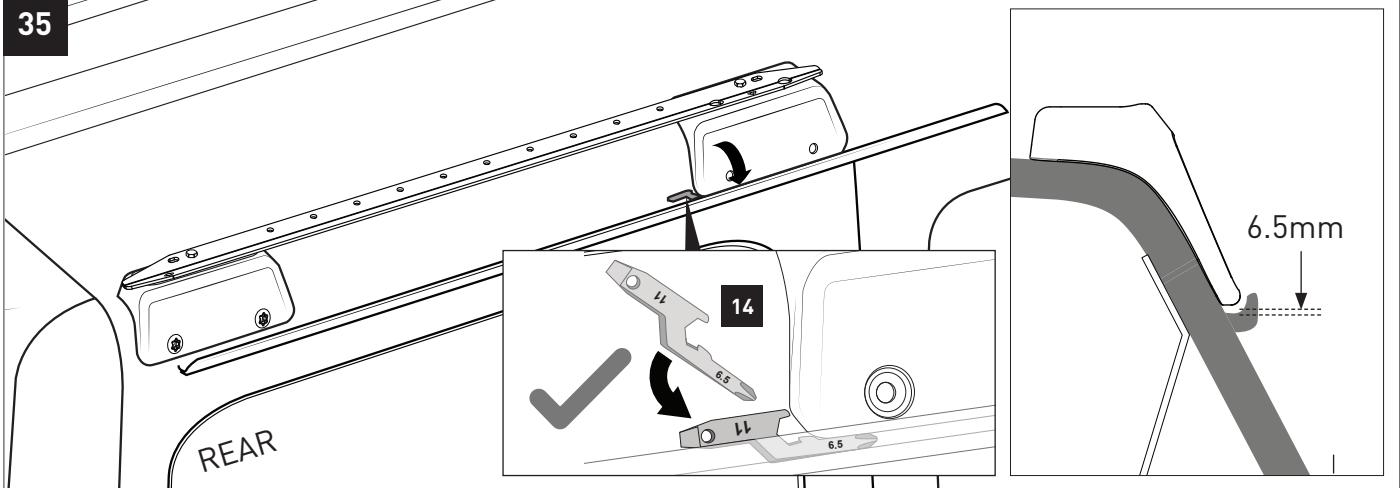
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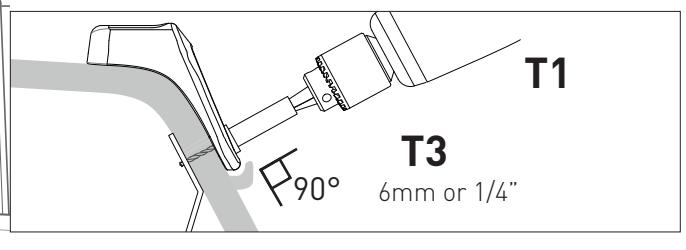
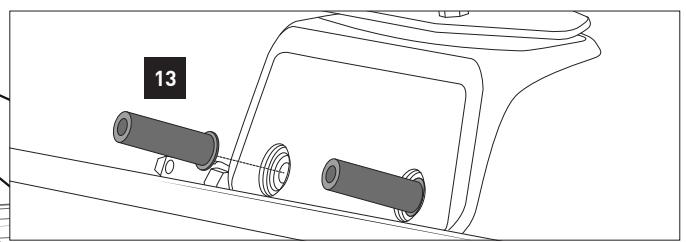
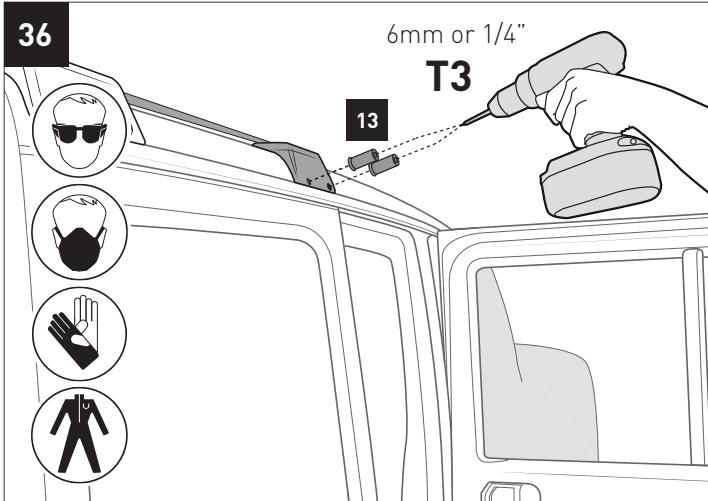
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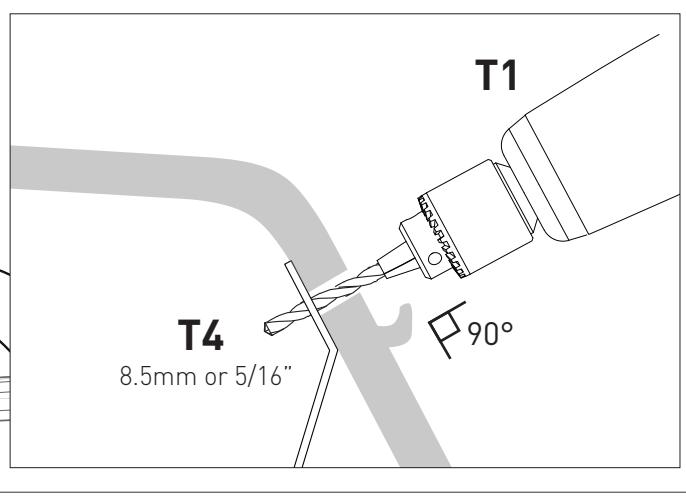
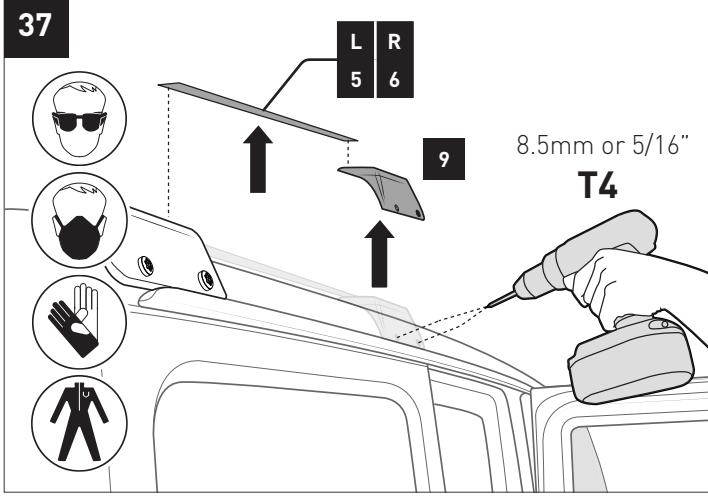
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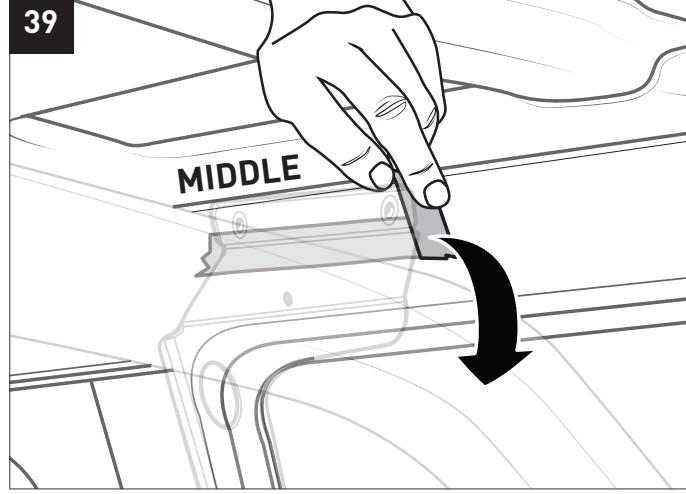
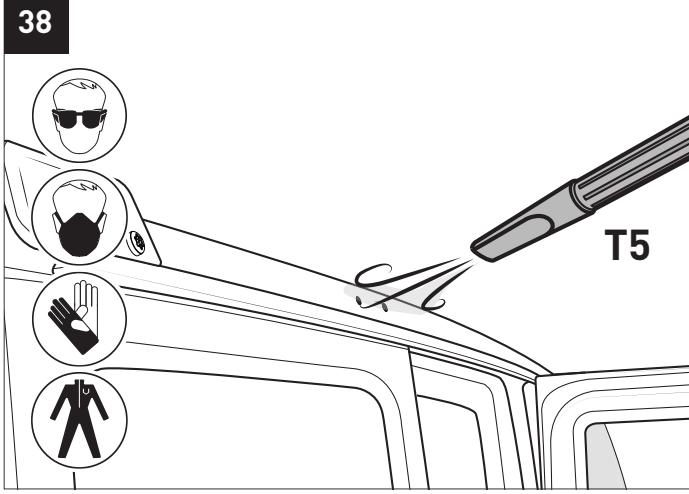
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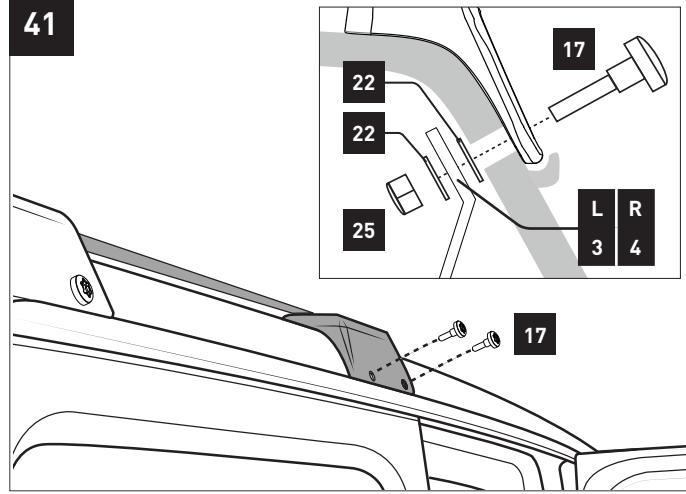
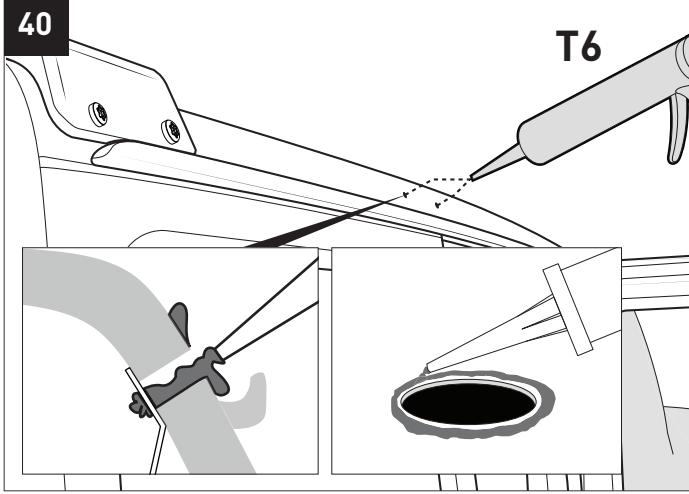
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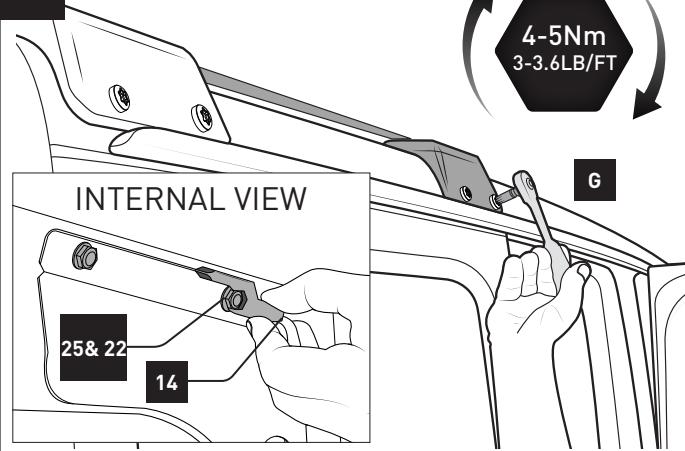
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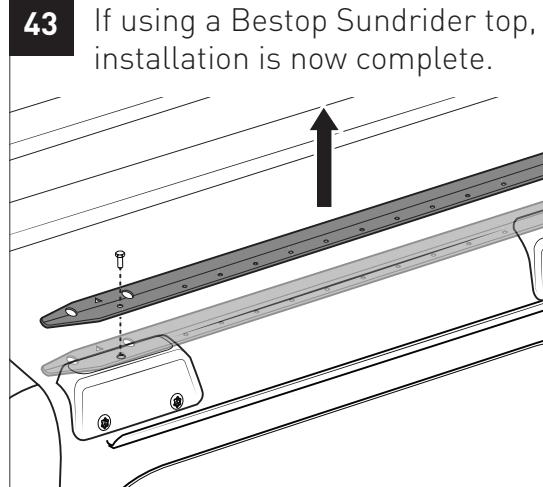
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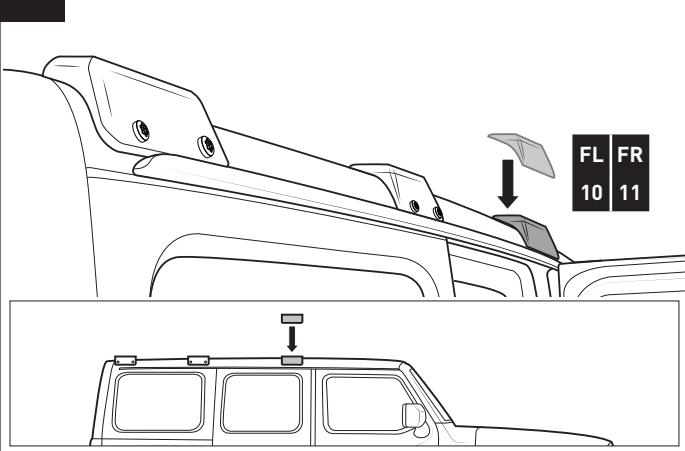
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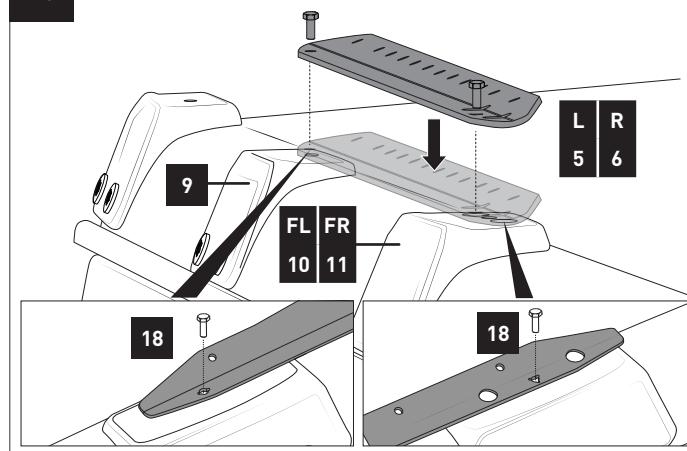
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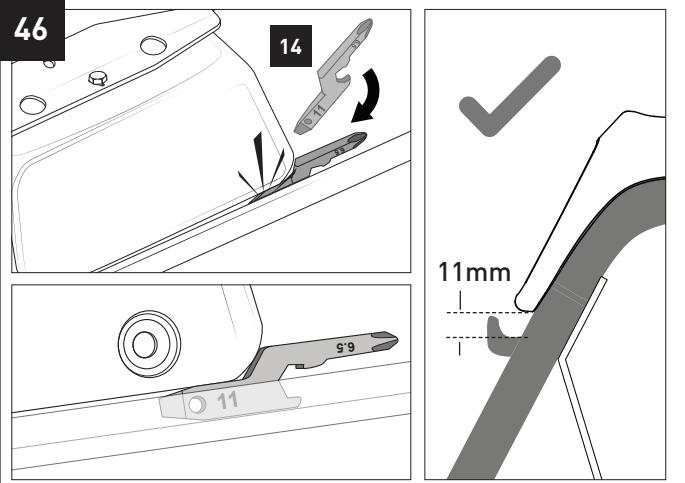
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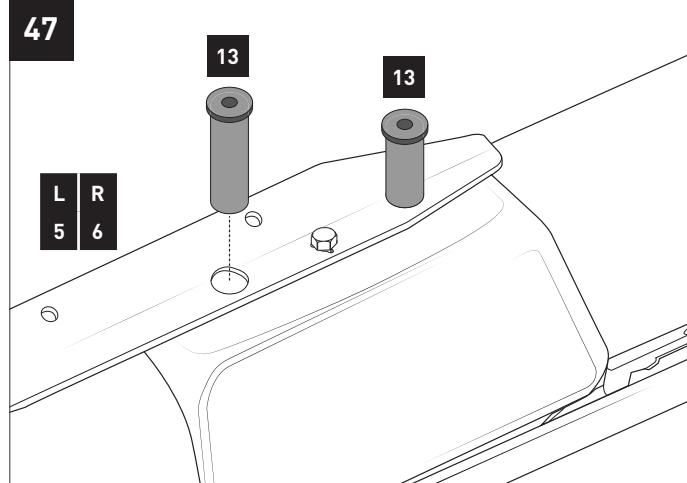
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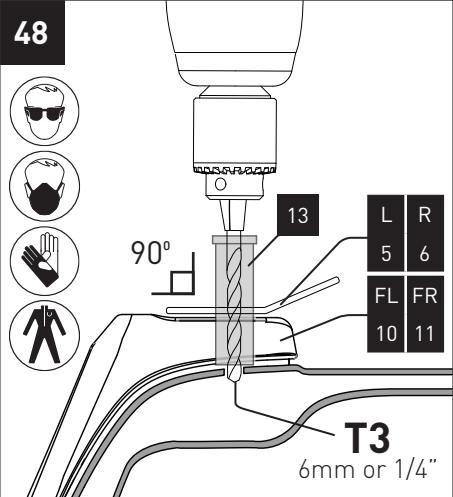
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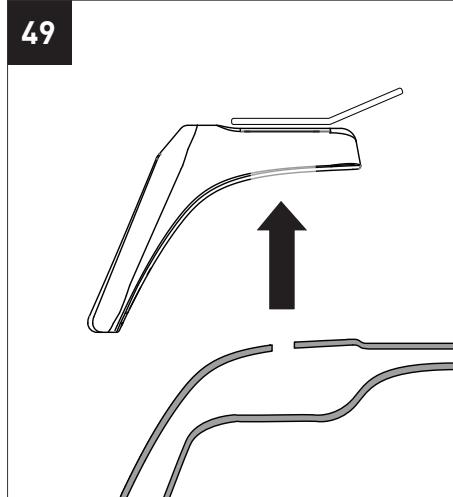
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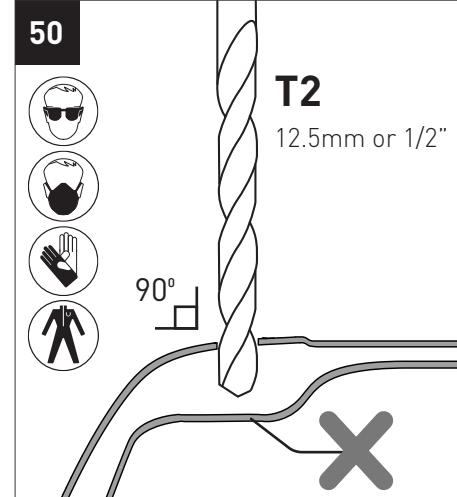
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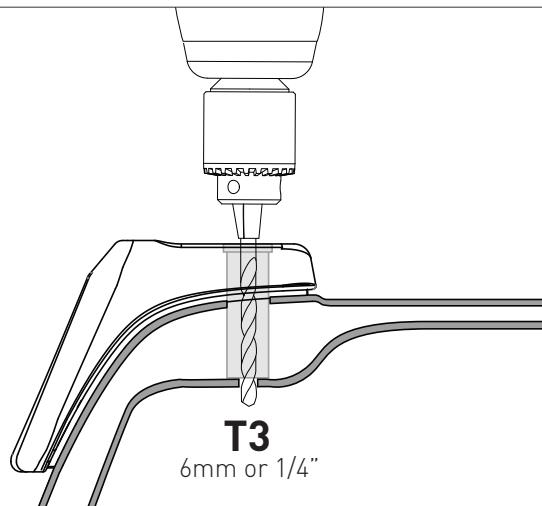
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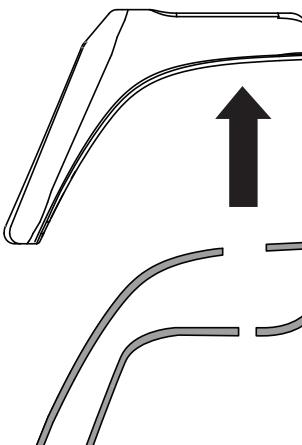


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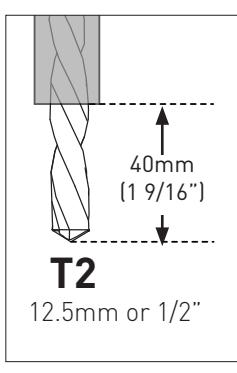


**T3**  
6mm or 1/4"

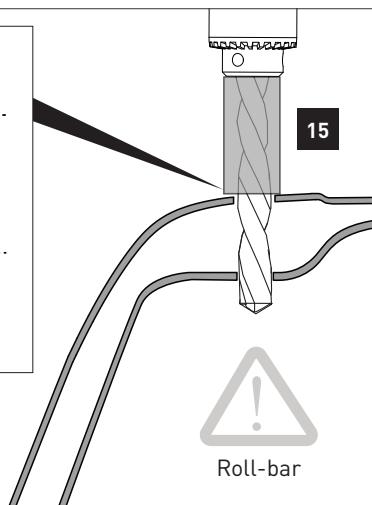
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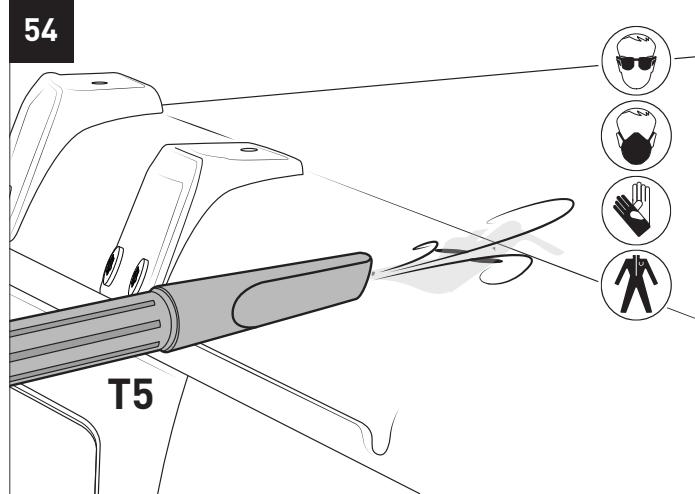
53



**T2**  
12.5mm or 1/2"

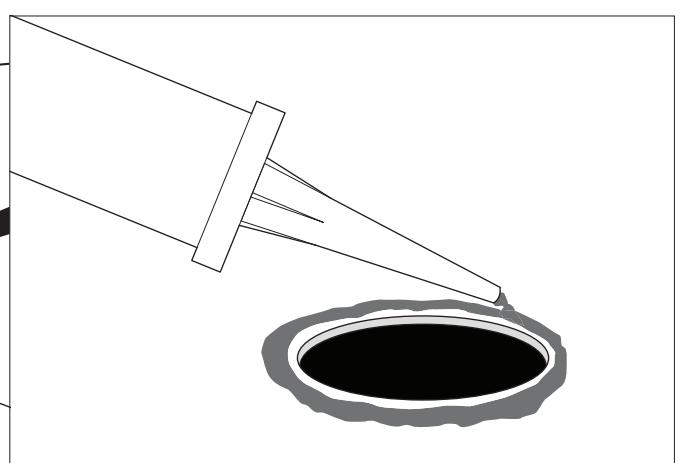
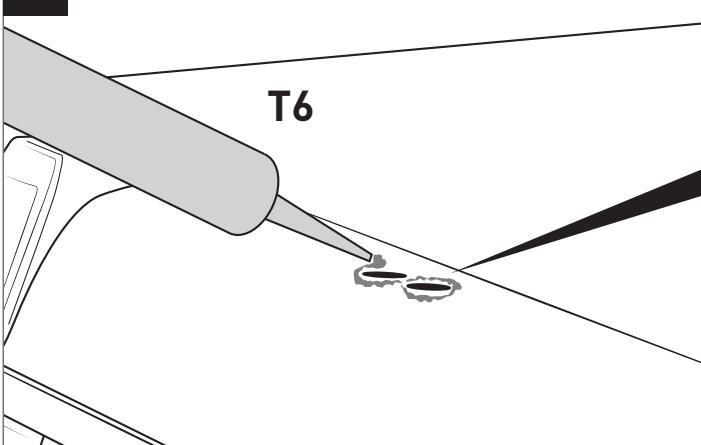


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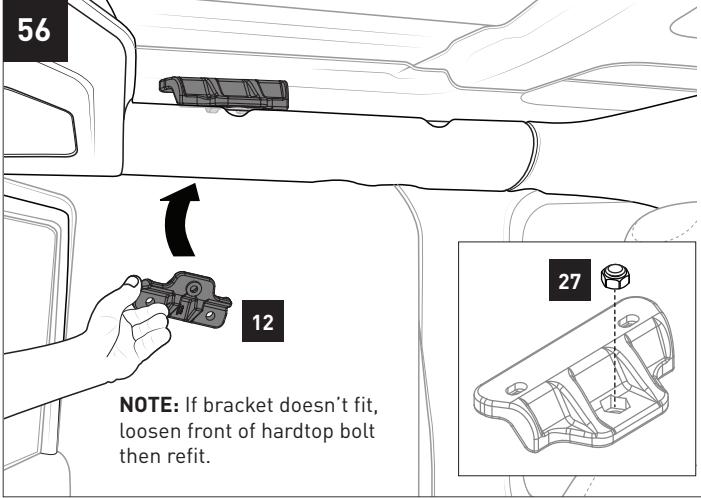


**T5**

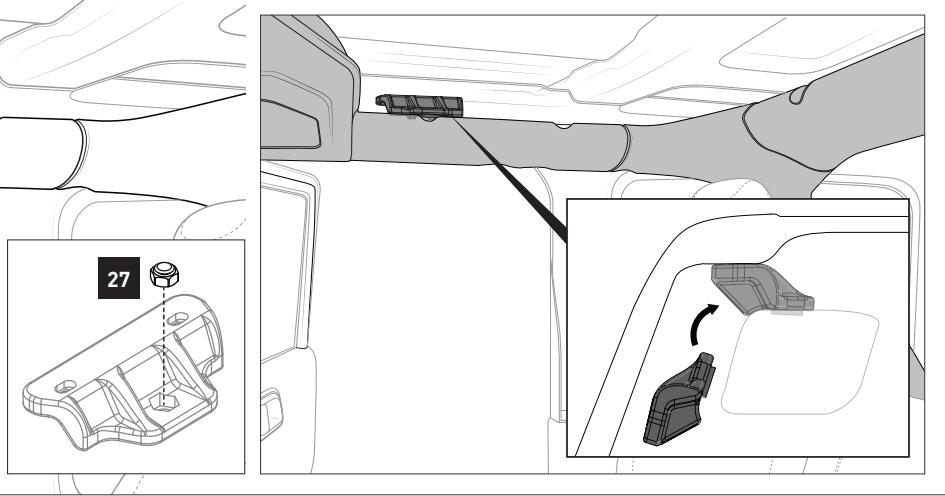
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56

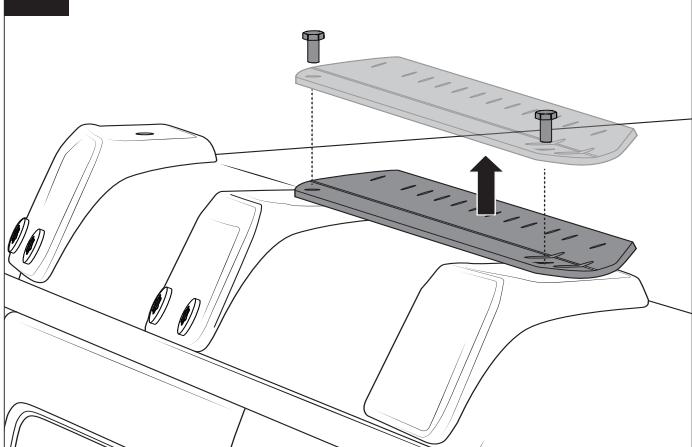


**NOTE:** If bracket doesn't fit,  
loosen front of hardtop bolt  
then refit.

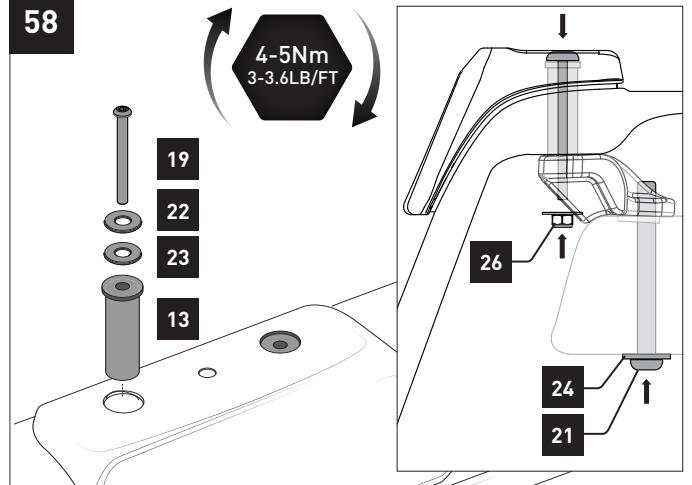


**27**

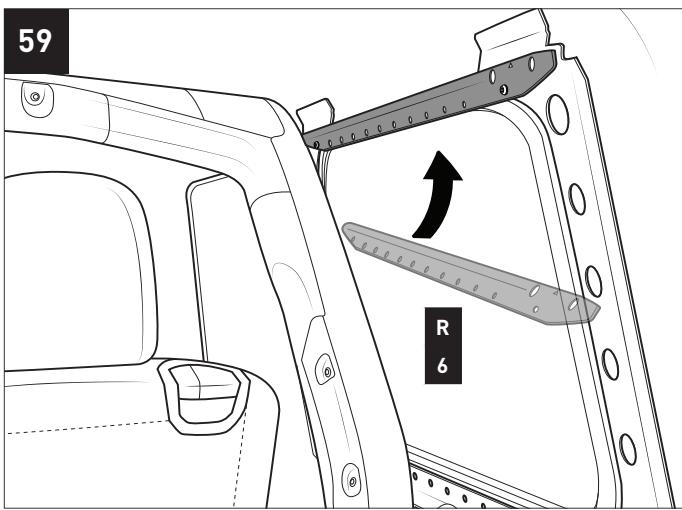
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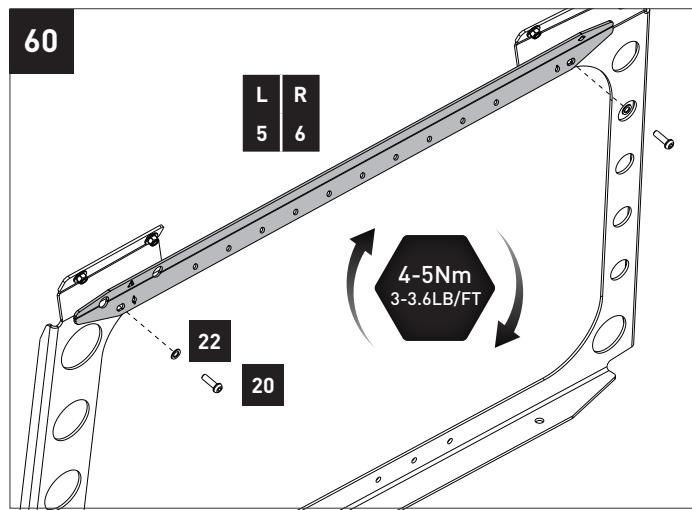
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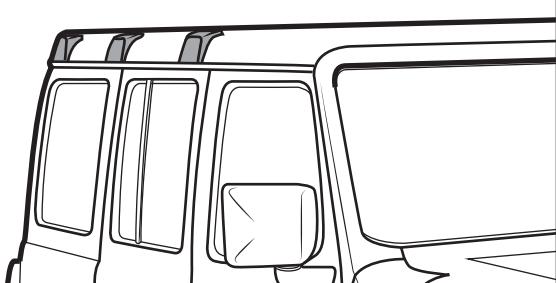
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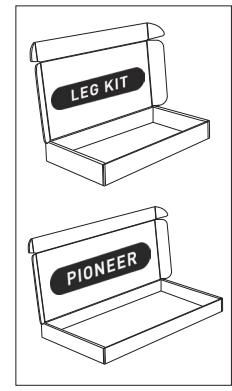
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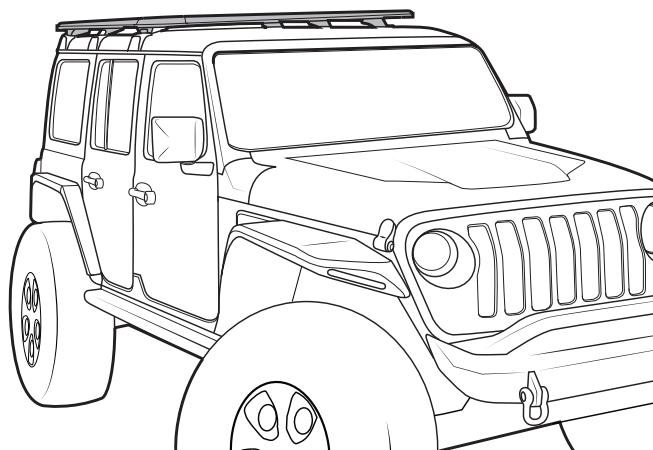
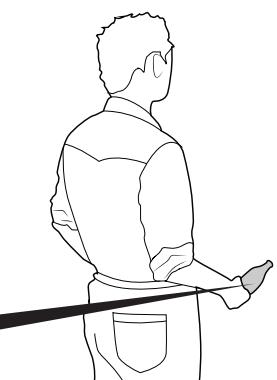
61 Repeat steps **1** - **60** to opposite side of the vehicle



62 Install legs then roof rack system

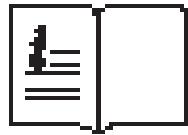
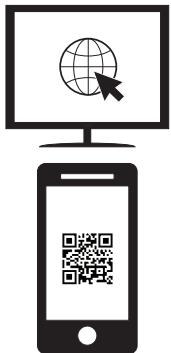


63



**NOTE**

Available roof systems for your vehicle and instructions can be found online.



1. Complete **Fit my vehicle** journey
2. Select your **Product Solution**
3. Scroll down to '**Product Details**'

## REMOVING CANOPY AFTER BACKBONE FITMENT

