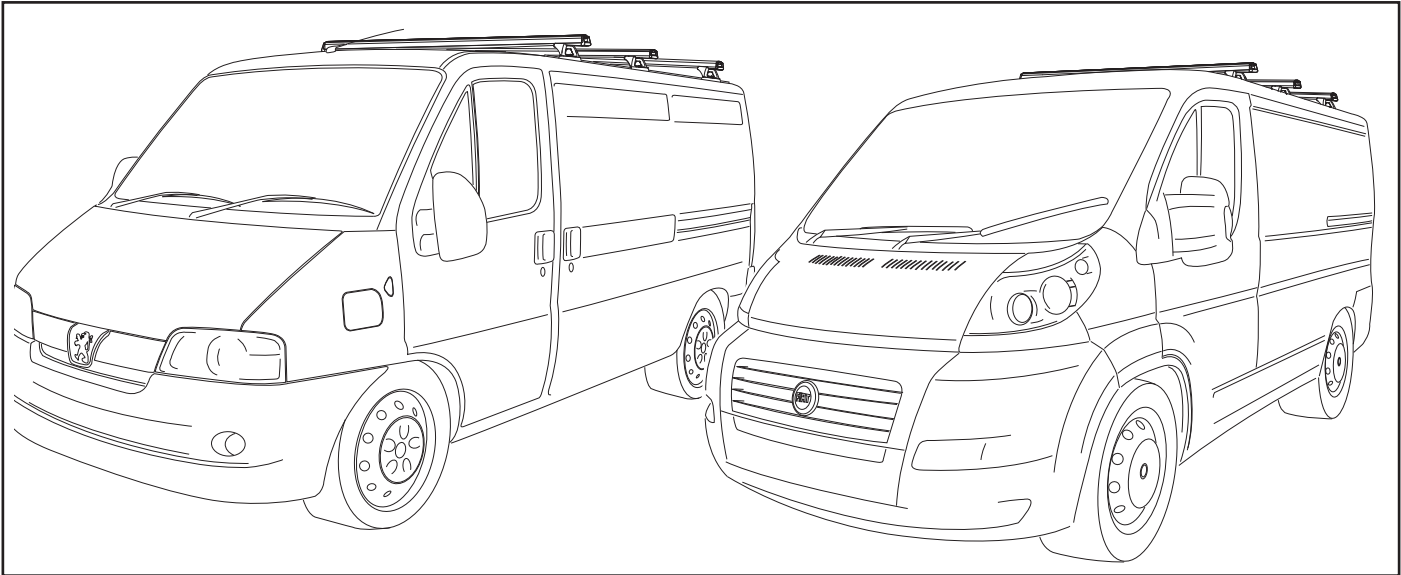




RHINO-RACK

RLCP22 & RLCP22H Rhino Crossbar System

FIAT Ducato, Citroën Relay/Jumper, Peugeot Boxer, IVECO Daily, RAM ProMaster



Important Information

1. Check Part No./Kit is correct
2. Read through instruction before installing
3. Fit roof rack accessory
4. Check and recheck all fasteners are secure

Maximum carrying capacity: Two Crossbars; 100 kg (220 lbs) evenly distributed.
Three or more Crossbars; 120 kg (264 lbs) evenly distributed.

Recommendations:

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

USE ONLY NON-STRETCH FASTENING ROPES OR STRAPS TO SECURE LOADS CARRIED.

Sensitivity to crosswinds, behaviour in curves and braking.

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

Please remove crossbars when putting vehicle through an automatic car wash.

Load Ratings:

Maximum permissible load is 100 kg (220 lbs) for two crossbars, 120 kg (264 lbs) for three or more crossbars include the weight of the crossbars 5 kg (11 lbs) per 2 crossbars. When crossbars are to be used in off-road conditions, please build a safety factor of 1.5 into this load limit for off-road use, two crossbars = 66 kg (145 lbs), three or more crossbars = 80 kg (176 lbs). Although the crossbars are tested and approved to AS1235-2000, road conditions can be much more rigorous. However, increasing the number of crossbars does not increase the vehicles maximum permissible roof loading.

Note for Dealers and Fitters:

It is your responsibility to ensure these instructions are given to the end user.

Rhino-Rack Australia Pty. Ltd.
3 Pike Street, Rydalmere,
NSW 2116, Australia.
(Ph) (02) 8846 1900
www.rhinorack.com.au

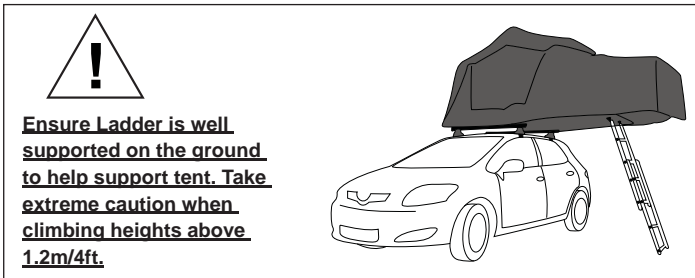
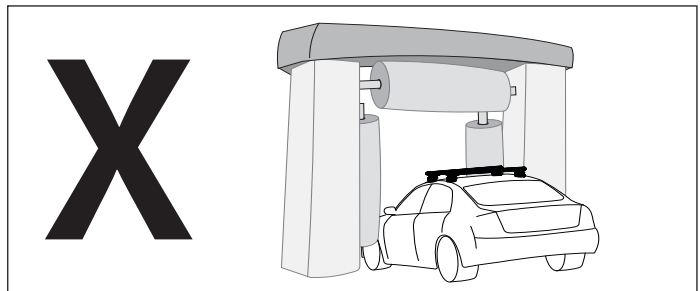
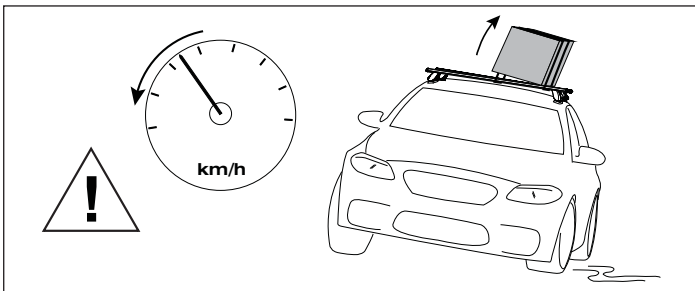
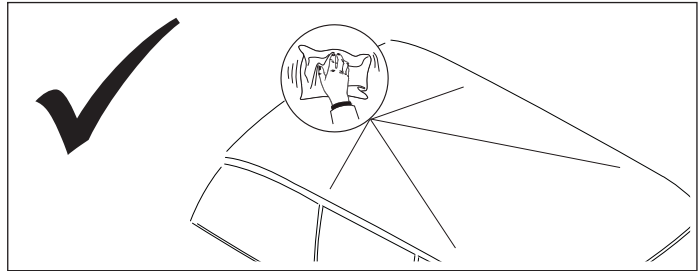
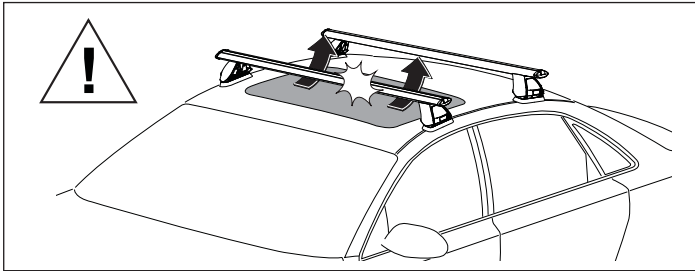
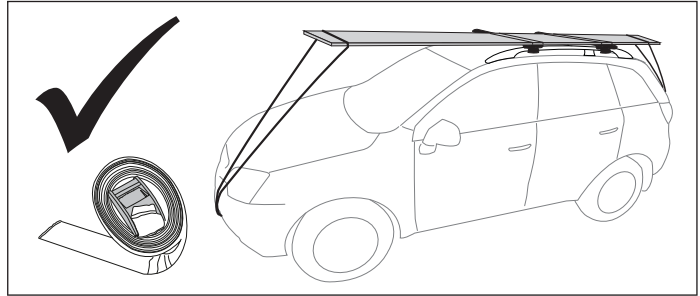
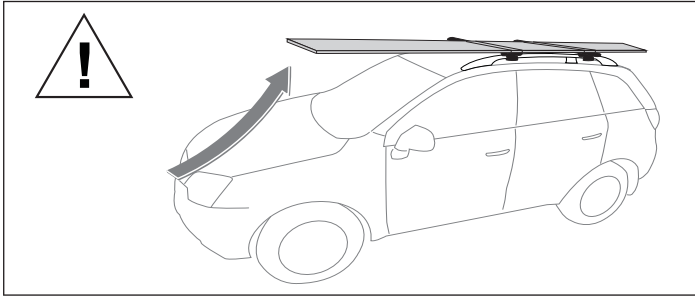
Document No: RR194
Prepared By: Craig Jones
Authorised By: Chris Murty

Fit Time: 1 Hour
Issue No: 05
Issue Date: 23/09/2016

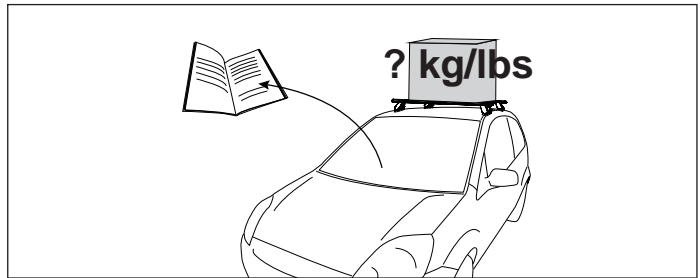
These instructions remain the property of Rhino-Rack Australia Pty. Ltd. and may not be used or changed for any other purpose than intended.



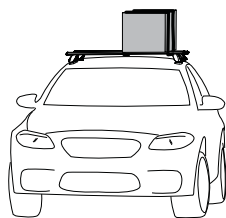
RLCP22 & RLCP22H



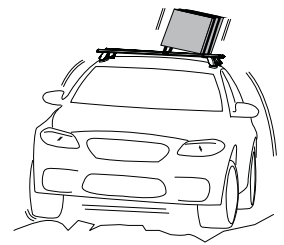
Ensure Ladder is well supported on the ground to help support tent. Take extreme caution when climbing heights above 1.2m/4ft.



When these roof racks are to be used on a vehicle that is driven off sealed roads the maximum load rating must be divided by 1.5. Remember to subtract the weight of the roof racks to determine your maximum permissible load capacity.



3 bars 120 kg (264 lbs) load rating (Urban road)	=	3 bars 80 kg (176 lbs) load rating (Off-road)
2 Bars 100 kg (220 lbs) load rating (Urban road)		2 Bars 66kg (145 lbs) load rating (Off-road)
2 x crossbar weight - 5 kg (11 lbs)		



WARNING! Important Load Carrying Instructions

With utility vehicles, the cabin and the canopy move independently. Roof racks and vehicle can be damaged if the item transported is rigidly fixed at points on both the cabin and canopy. Instead, rigidly fix to either the cabin roof racks or the canopy roof racks.

X
NO

✓
YES

✓
YES

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

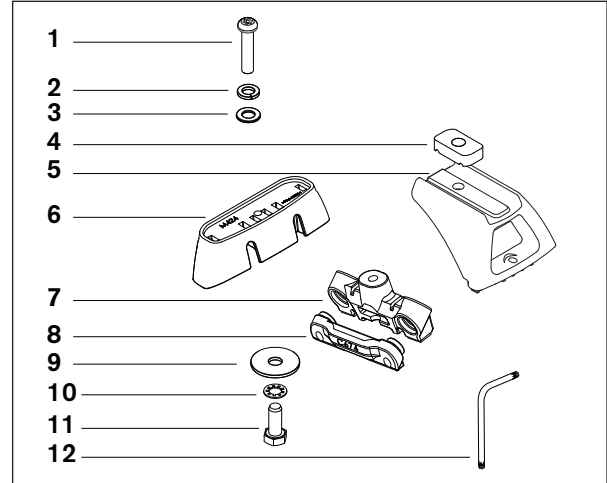
✓
YES



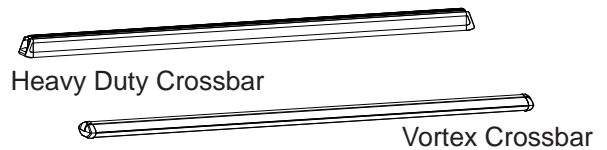
RLCP22 & RLCP22H

Parts List

Item	Component	Qty (2 Bar Kit)	Part No.
1	M6 x 25mm Security Torx Screw	12	B244
2	M6 Spring Washer	12	W004
3	M6 x 12.5mm Flat Washer	12	W003
4	M10 Channel Nut	4	N024
5	RLCP Leg	4	M123
6	RLCP Pad	4	M424
7	Cast Clamp A	4	C673
8	Cast Clamp B	4	C674
9	M10 x 38mm Flat Washer	4	W022
10	M10 Internal Shakeproof Washer	4	W021
11	M10 x 20mm Hex Bolt	4	B003
12	T27 Security Torx Key	1	H054
13	Fitting Instruction	1	RR194



Crossbars sold individually	Part No.
1800mm Heavy Duty Crossbar SILVER	RB1800S
1800mm Heavy Duty Crossbar BLACK	RB1800B
1800mm Vortex Crossbar SILVER	VA180S
1800mm Vortex Crossbar BLACK	VA180B



Tools Required:

Security Torx key (provided in kit)	Marking pen	Rubber mallet	10mm spanner (VA Bars)
	Tape measure	Cutters	16mm spanner (HD Bars)

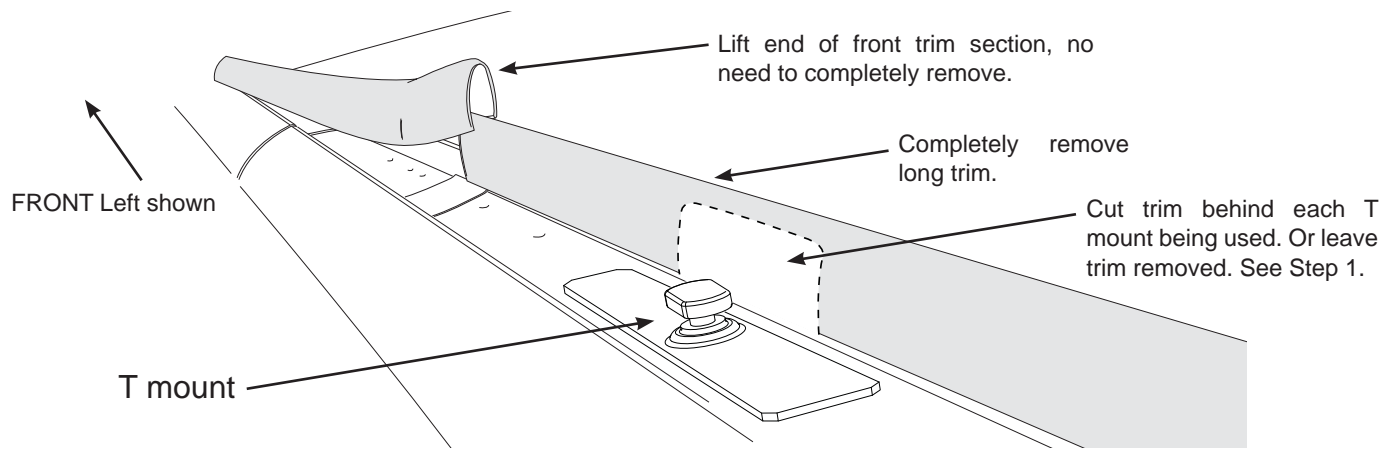
Note:

Depending on which vehicle is being fitted, the rubber trim on the roof may or may not need to be removed or modified. Please read the following initial steps to determine the process for your particular vehicle.

Vehicles covered are; FIAT Ducato, Citroën Relay/Jumper, Peugeot Boxer, IVECO Daily, RAM ProMaster.

IVECO Daily

In order to fit the two cast blocks that clamp around the T mount the rubber trim on the roof must be removed. Lift the front section to better access the longer trim. Remove the remaining long section of trim from each side of the vehicle. The long trim can be left off the vehicle after fitment of roof racks or it can be cut to clear the roof pads where the T mounts are used.



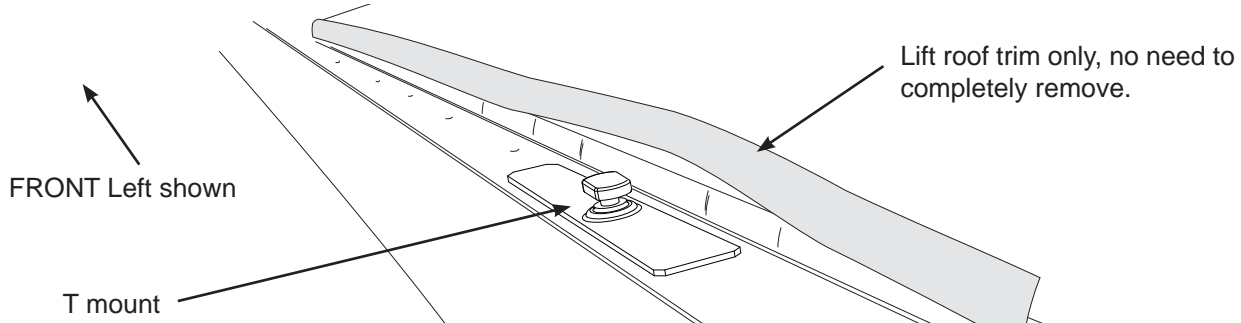


RLCP22 & RLCP22H

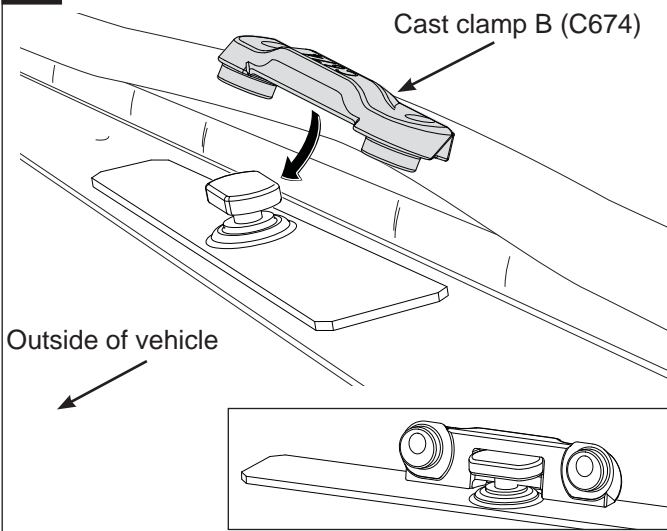
FIAT, Citroën, Peugeot - up to 2004.

In order to fit the two castings that clamp around the T mount the rubber trim on the roof must be lifted to allow enough access to manouvre cast clamp B around the T mount. Once cast clamp B is located the trim can be pushed back down.

The later model FIAT, Citroën, Peugeot & RAM have no trim which interferes with the T mount.



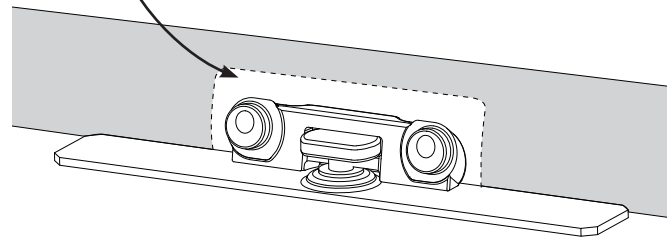
1



Fit **Clamp B** around the back of **T mount** so threads are facing upward towards the outside of the vehicle.

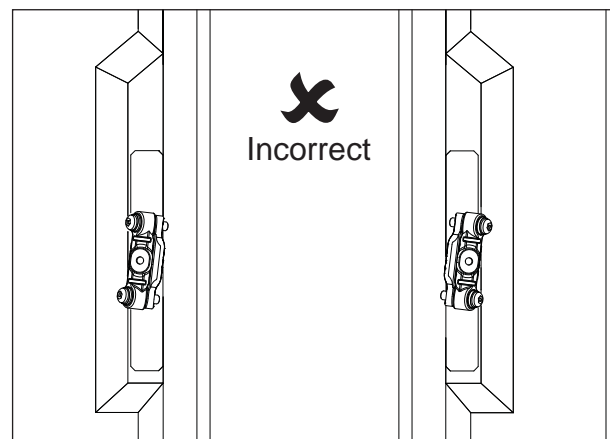
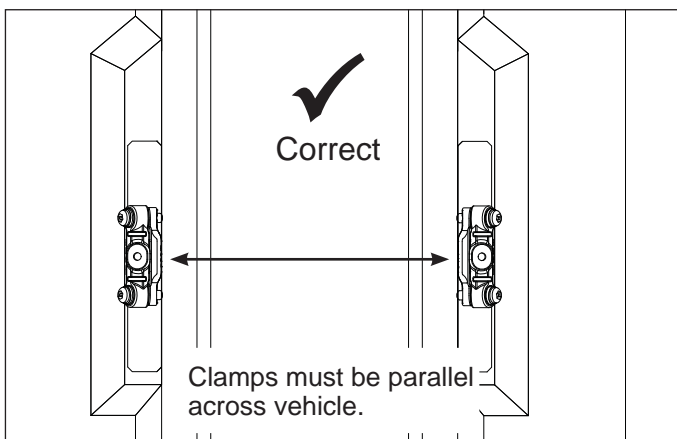
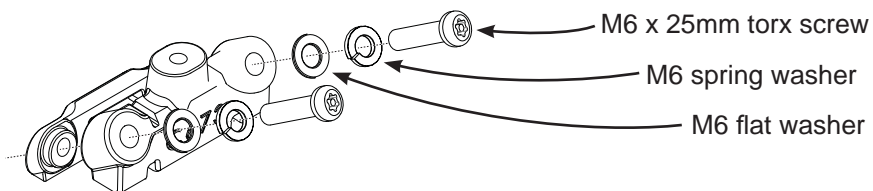
Note: If there is excessive drip check sealer around the T mount it must be removed to allow the clamps to sit properly.

IVECO Daily: Cut 75mm x 25mm out of the trim so clamp B can fit.



2

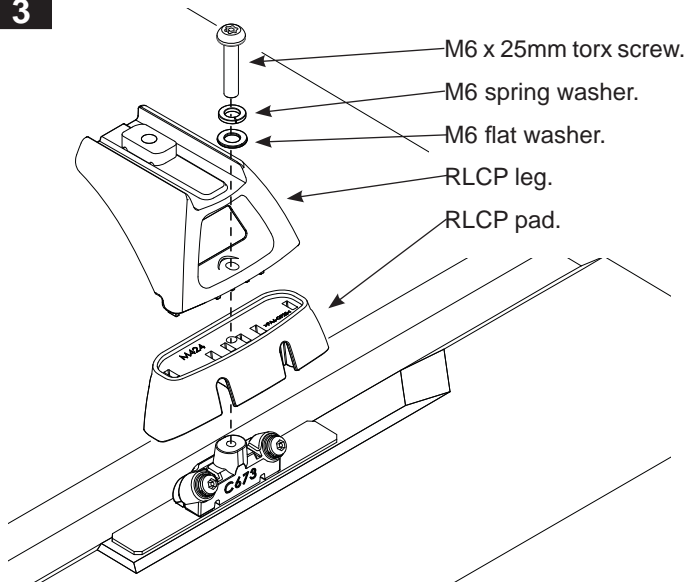
Secure cast clamp A to clamp B using the supplied M6 torx screws and washers. Make sure the clamps are parallel across the vehicle. **Tighten M6 screws to 3-4 Nm/ 2-3 lb/ft.** Do not overtighten.



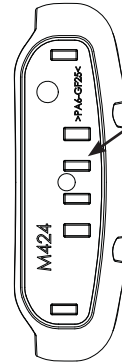


RLCP22 & RLCP22H

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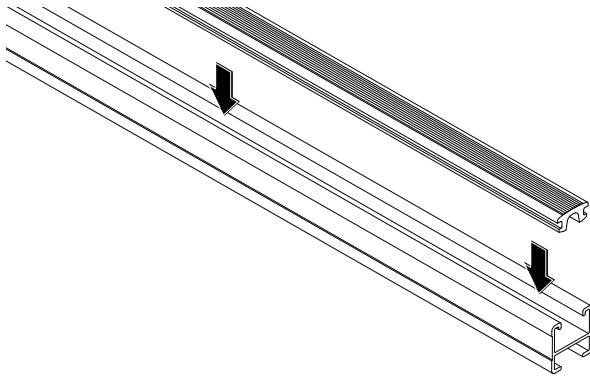


Locate each RLCP leg and pad over the clamps. Place the M6 screw and washer assembly through the centre hole to secure. **Do not fully tighten at this stage.**



Heavy Duty Crossbar installation

4

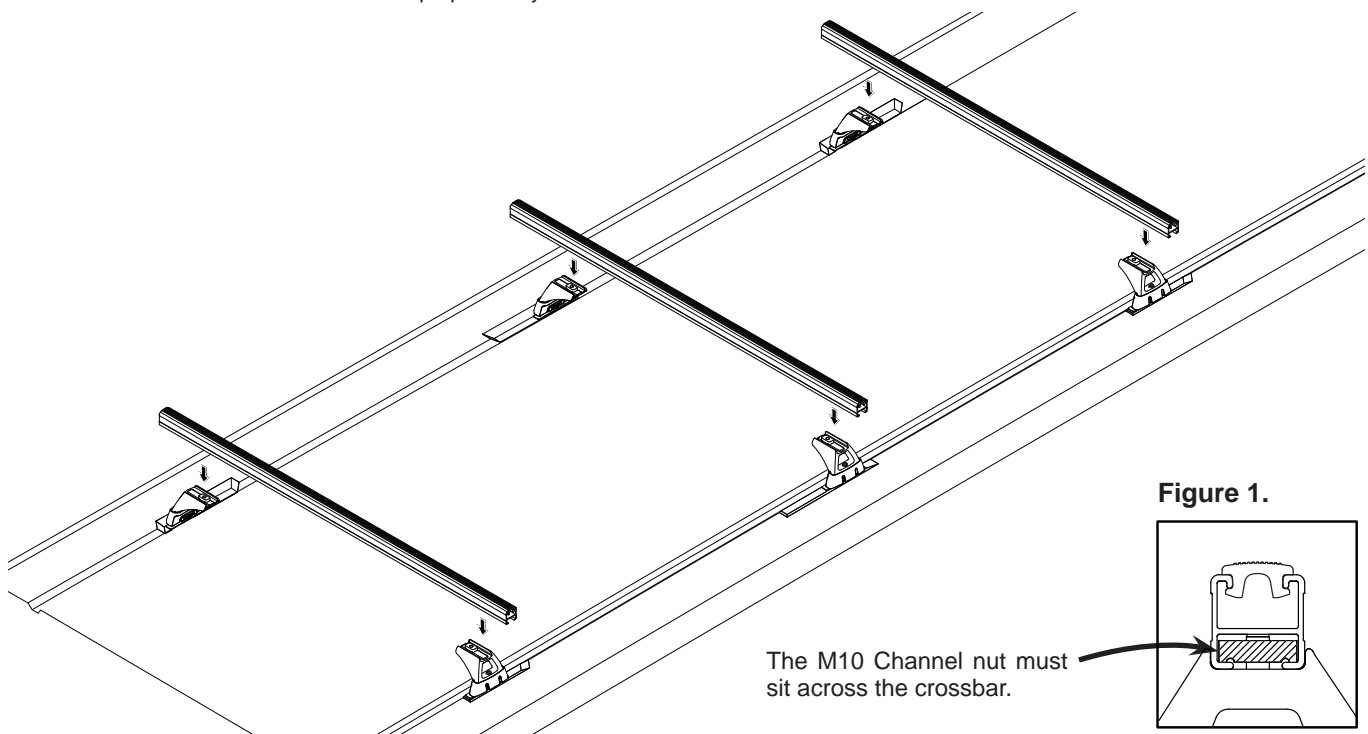


Insert the crossbar rubber into the top of the crossbar. The rubber may need to be trimmed level with the end of the crossbar.

5

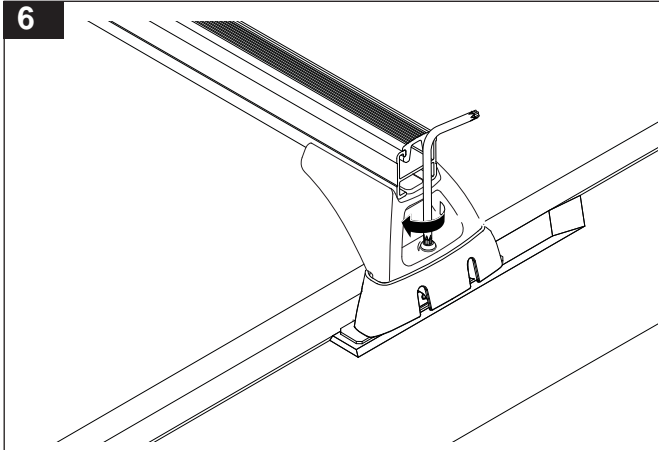
Place crossbars onto legs. Make sure the legs are parallel with the opposing side. Turn the M10 channel nut to sit across the crossbar. Turn the M10 channel nut to locate correctly inside the crossbar as shown in **Figure 1**.

Three crossbars shown for illustrative purpose only.





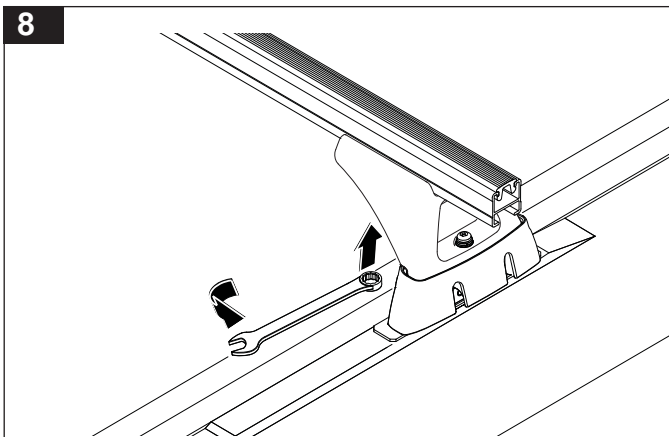
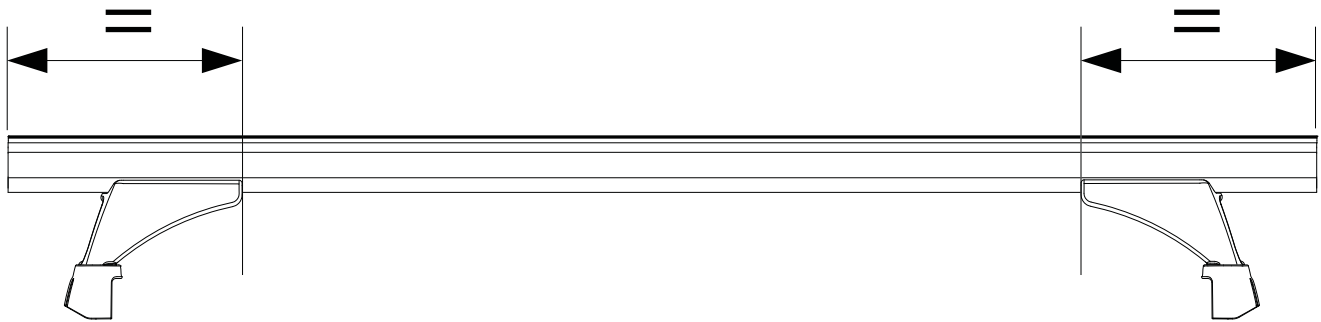
RLCP22 & RLCP22H



Slide the crossbar to give better access to M6 screw. Progressively and evenly tighten both the left and right side M6 leg screw to secure.

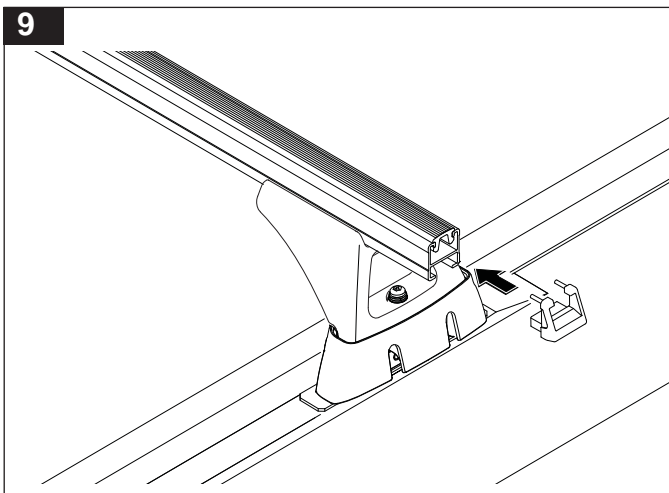
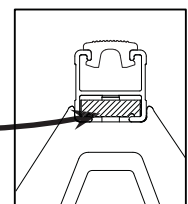
Tighten the M6 screws to 3-4 Nm/ 2-3 lb/ft. Do not over tighten.

7 Measure to make sure the crossbar overhang is equal on both sides.

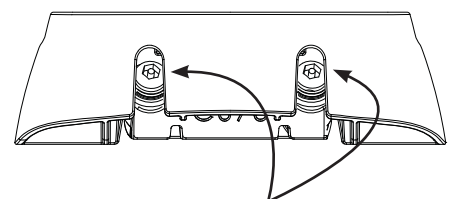


Check that all channel nuts are fully located across the crossbar before and after tightening. Tighten the M10 crossbar attachment bolts using a 5/8" or 16mm spanner. **Tighten to 11-12 Nm/ 8-9 lb/ft. Do not over tighten.**

The M10 Channel nut must sit across the crossbar when tight as shown.



Insert end caps into each end of the crossbars. A rubber mallet may be needed to knock them in. Check all attachment screws after fitment. Re-tension if necessary.



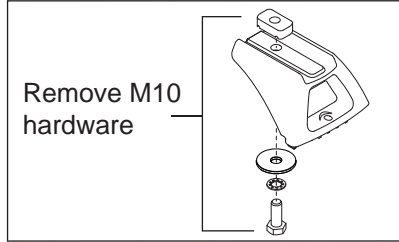
Cut outs in the pad to allow access to clamp screws for periodically checking M6 screw tension.



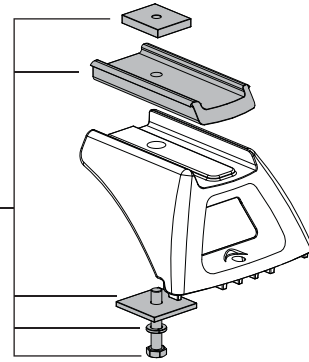
Vortex Crossbar installation

10 Vortex Crossbars.

VA-FK2 fitting kit required when fitting Vortex crossbars. Sold separately.

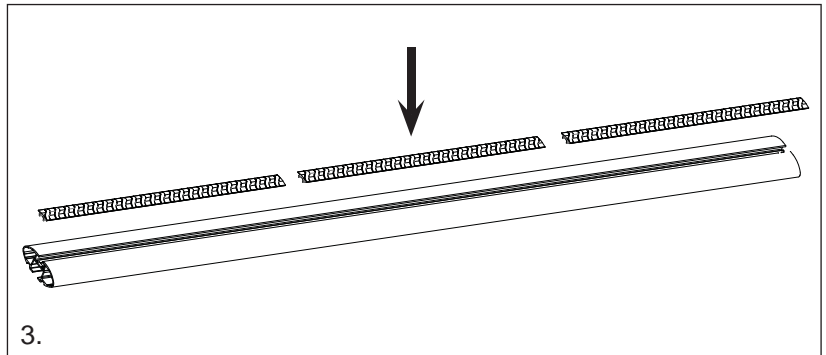
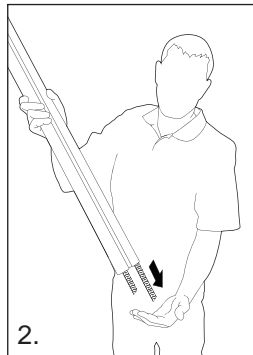
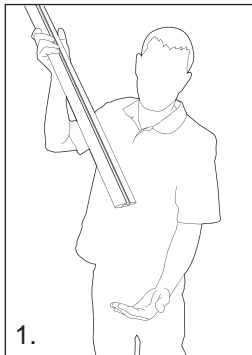


VA-FK2 components



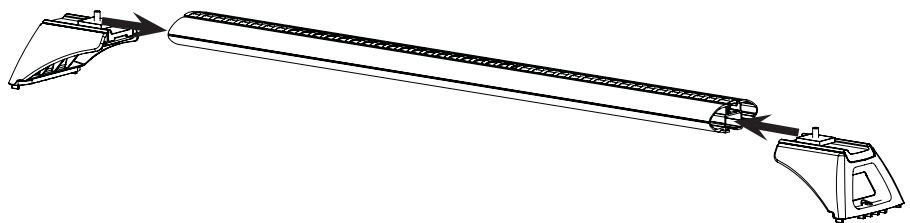
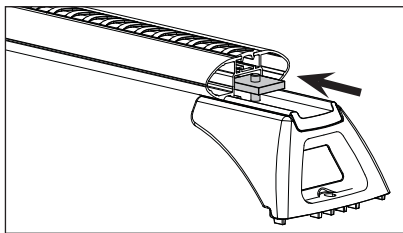
11

Open the Crossbar box and remove the end caps. Shake the crossbar to remove measurement strips and rubber buffer strips. Insert Vortex rubber strips into the top of each crossbar, trim to suit crossbar length.



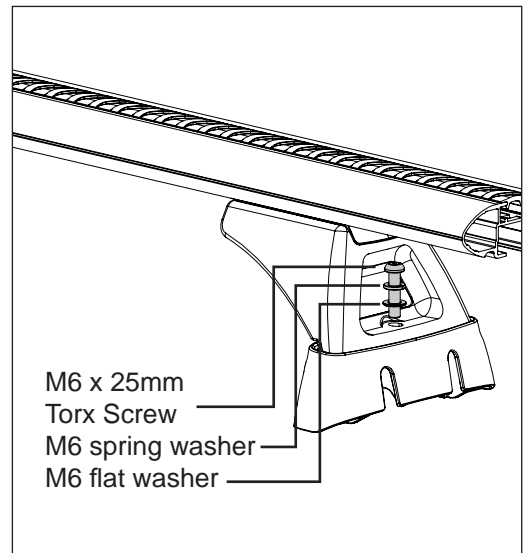
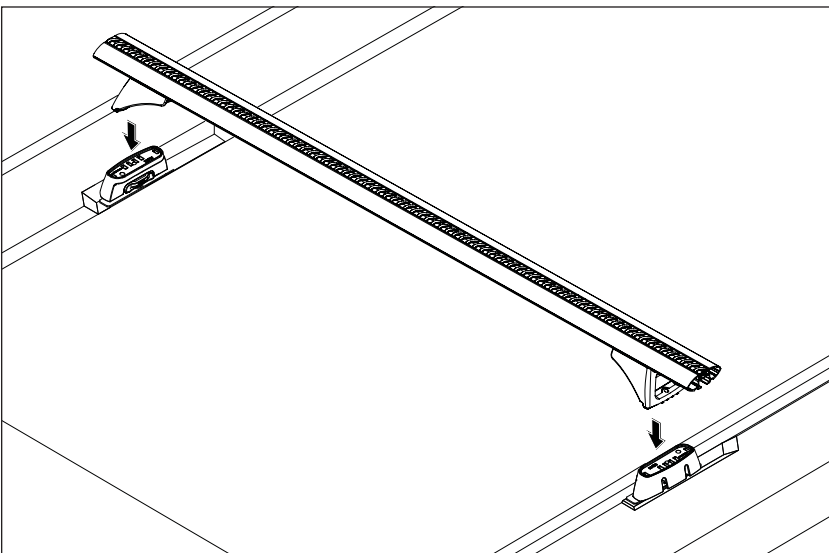
12

Insert legs into the Vortex crossbar. Place a small amount of tension on the M6 screws to hold legs in place.



13

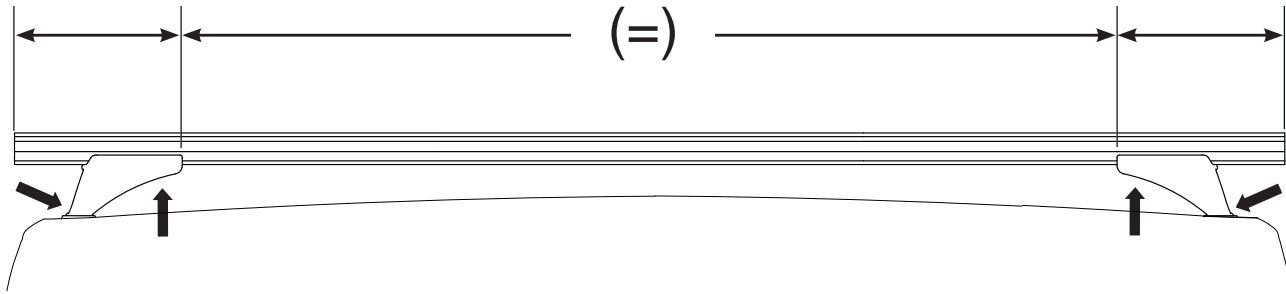
Adjust the legs to locate onto the bases. Install M6 x 25mm Torx Screws, Spring Washers and Flat Washers to secure all legs.





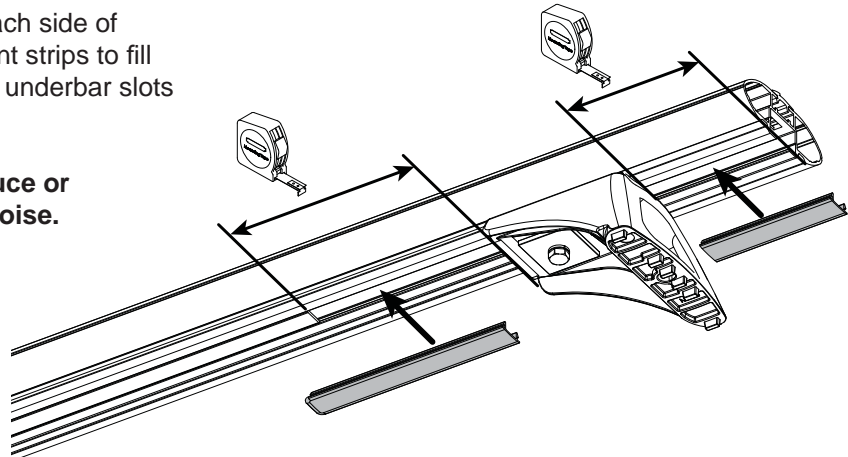
RLCP22 & RLCP22H

- 14** Measure each side to achieve equal crossbar overhang. Tighten the M6 crossbar screws to **4-5 Nm/ 3-4 lb/ft.** Tighten the M6 leg Torx screws to **3-4 Nm/ 2-3 lb/ft.**



- 15** Measure the underbar slot length each side of the leg then cut the bar measurement strips to fill these gaps. Clip each piece into the underbar slots of the crossbar.

NOTE: Filling these slots will reduce or eliminate whistling wind noise.



16 **SECURE CORE LOCKING END CAP**

Using the Secure Core Key unlock the end cap prior to inserting it into each end of the crossbars. Turn the key 90° clockwise to lock the end cap in place.

