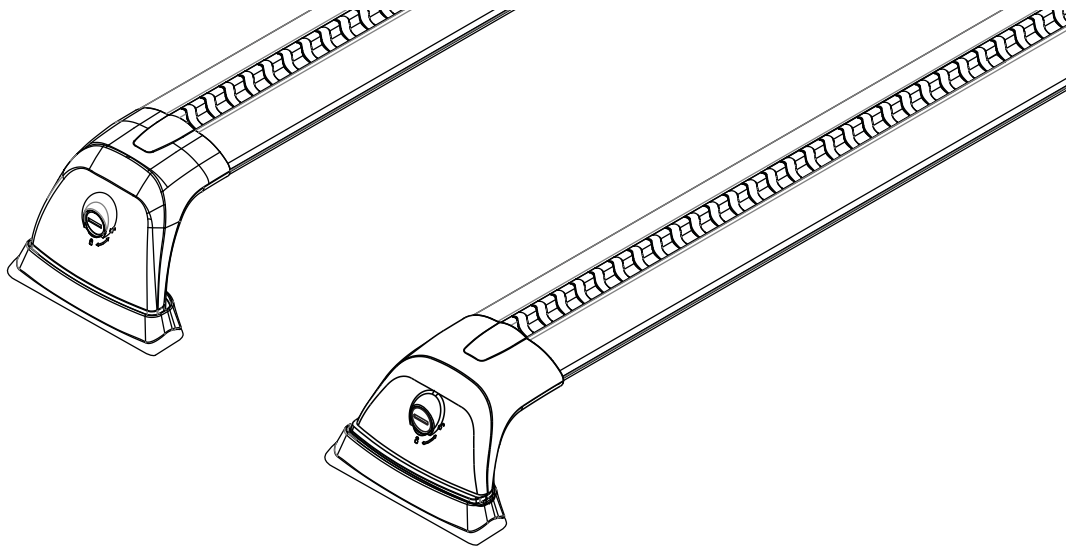




RHINO-RACK

RVL, RVH 2,4,6 Kits

Important: Please read these instructions carefully prior to installation. Please refer to your fitting instruction to ensure that the Roof Rack System is installed in the correct location. Check the contents of kit before commencing fitment and report any discrepancies. Place these instructions in the vehicle's glove box after installation is complete.



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: 80kg evenly distributed over two crossbars. 90kg evenly distributed over three crossbars.

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 & lubricated at regular intervals (probably once a week is enough, depending on road conditions, usage, loads and distances travelled). You should also check the crossbars each time they are refitted. Make sure to fasten your load securely. Please ensure that all loads are evenly distributed and that the centre of gravity is kept as low as possible.

Crossbars must be removed when putting vehicle through an automatic car wash.

Use only non-stretch fastening ropes or straps.

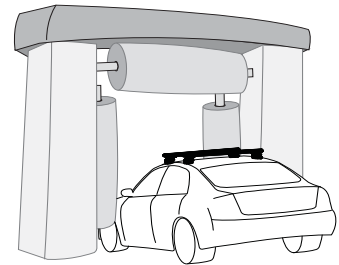
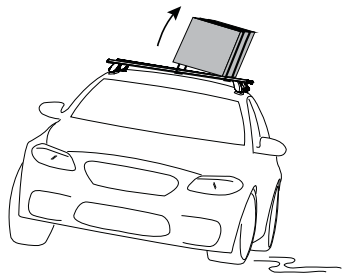
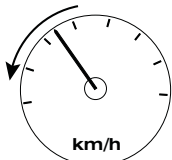
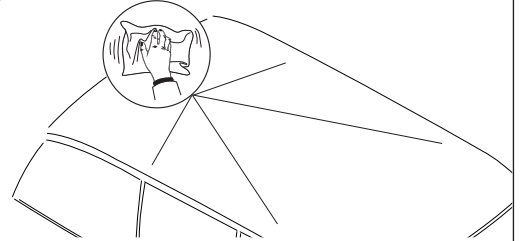
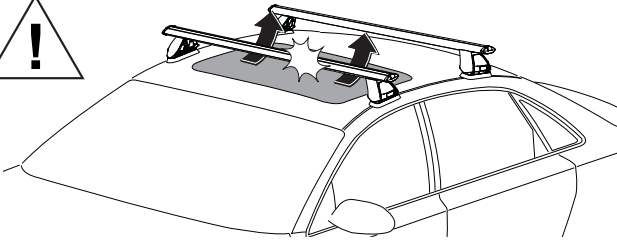
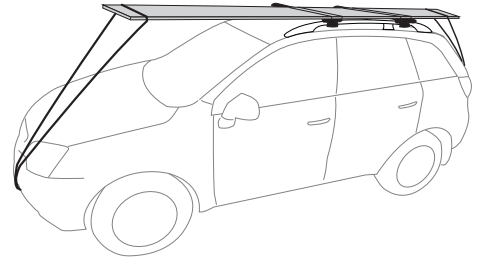
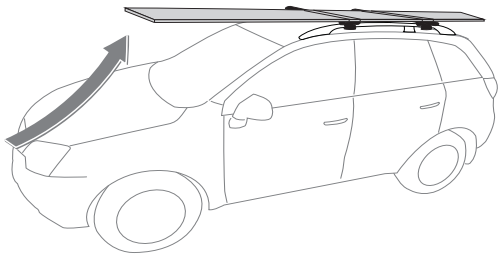
Caution: The handling characteristics of the vehicle changes when you transport a load on the roof. For safety reasons we recommend you exercise extreme care when transporting wind-resistant loads. Special consideration must be taken into account when cornering and braking.

Load Ratings:

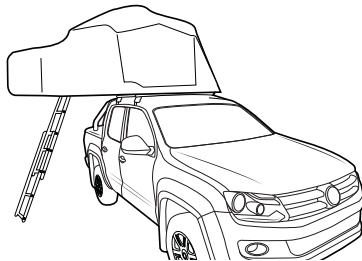
Maximum permissible load is 80kg (176lbs) for two crossbars and 90kg (198lbs) for three crossbars, including the weight of the crossbars 5kg (11lbs). When crossbars are to be used in off-road conditions, please build a safety factor of 1.5 into this load limit for off-road use, two crossbars = 53kg (116lbs), three crossbars = 60kg (132lbs). Although the crossbars are tested and approved to AS1235-2000, Off-road conditions can be much more rigorous.



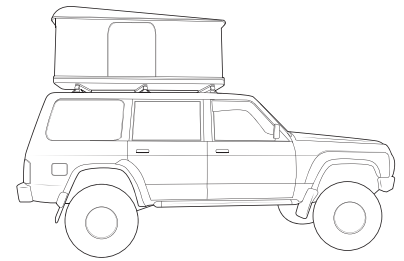
RVL, RVH 2,4,6 Kits



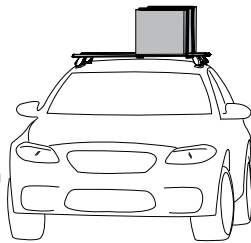
Ensure Ladder is well supported on the ground to help support tent. Take extreme caution when climbing heights above 1.2m/4ft.



It is a requirement for Clam Shell Roof Top Tents to use a 3 Crossbar System.



When these roof racks are to be used on a vehicle that is driven off sealed roads, the manufacturer maximum roof load rating (to be found in the vehicles User Manual) should be **divided by 1.5**. Do not forget to subtract the complete crossbar system weight from your maximum carrying capacity.



2 Bar System
100kg/220lbs
(Urban Road)

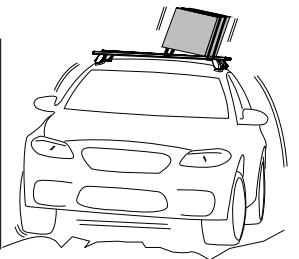


66kg/145lbs
(Off Road)

3 Bar System
150kg/220lbs
(Urban Road)

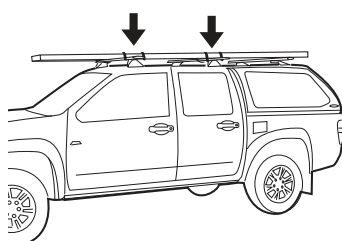
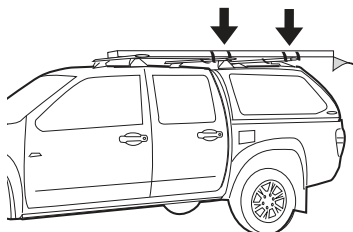


100kg/220lbs
(Off Road)

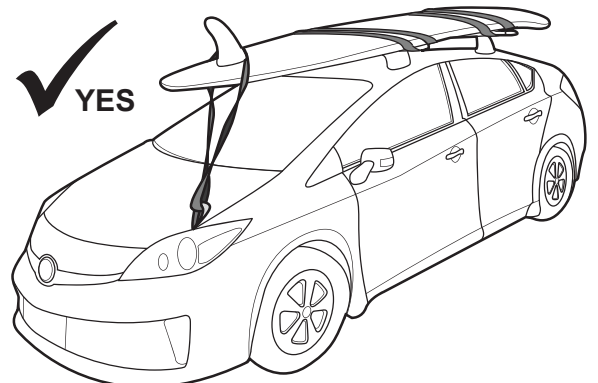


WARNING! Important Load Carrying Instructions

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.



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

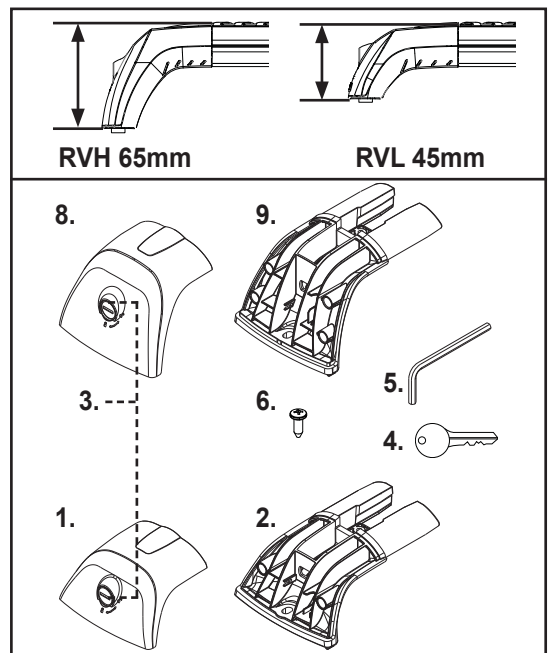




RVL, RVH 2,4,6 Kits

Parts List

Item	RVL	2 Kit Qty	4 Kit Qty	6 Kit Qty	Part No.
1	Locking Leg Cover (45mm)	2	4	6	M788
2	Locking Leg Base (45mm)	2	4	6	M787
3	Key Barrel	2	4	6	CA1339
4	Key	1	2	2	-
5	Allen Key	1	1	1	H021
6	Phillips Head Screw	2	4	6	B172
7	Instructions	1	1	1	R850
Item	RVH	2 Kit Qty	4 Kit Qty	6 Kit Qty	Part No.
8	Locking Leg Cover (65mm)	2	4	6	M786
9	Locking Leg Base (65mm)	2	4	6	M785
3	Key Barrel	2	4	6	CA1339
4	Key	1	2	2	-
5	Allen Key	1	1	1	H021
6	Phillips Head Screw	2	4	6	B172
7	Instructions	1	1	1	R850



Notes:

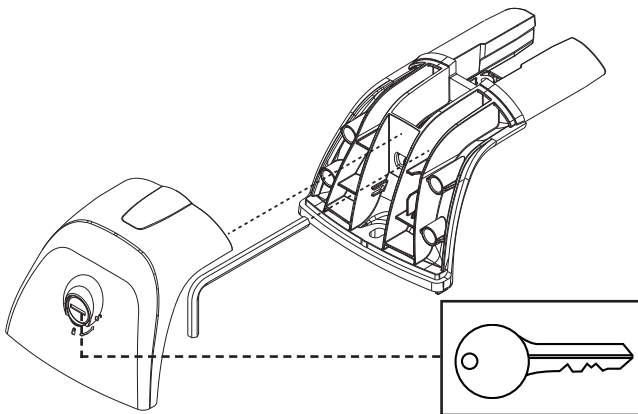
Crossbars and Fit Kits are sold as separate and are required for individual vehicle fits.

Tools Required:

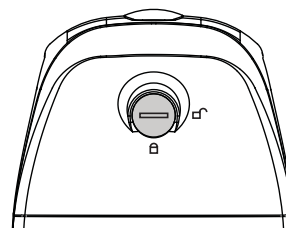
Allen Key (provided). Phillips Head Screw Driver.
Metal Key (provided). Drill with 4mm Drill Bit.

Instructions

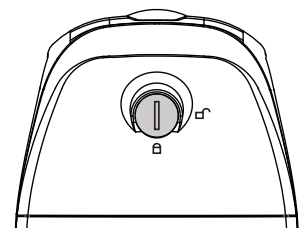
- 1** Use the Metal Key provided to unlock the Locking Cover Plate and remove. Remove the Allen Key from its storage position.



Front View:

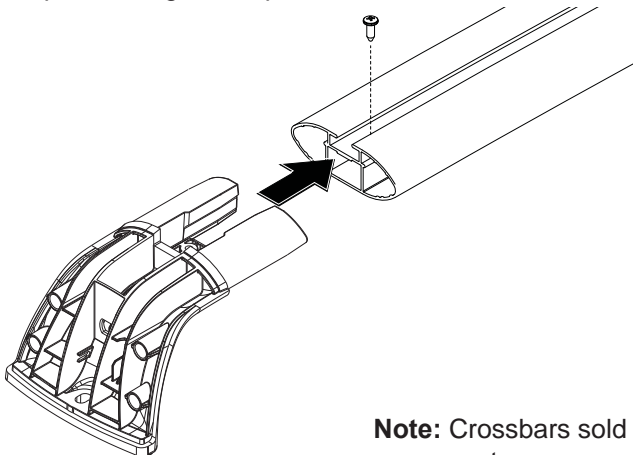


Open



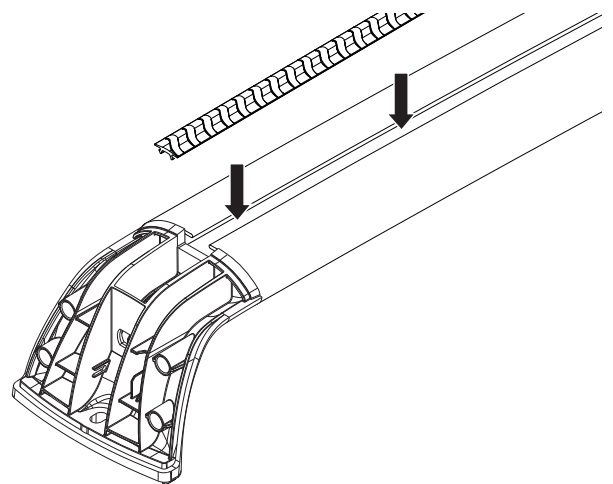
Close

- 2** Insert the Locking Leg into the Crossbar. Fix in place using a Phillips Head Screw.



Note: Crossbars sold as separate.

- 3** Insert Vortex Rubber. Cut to size if required.



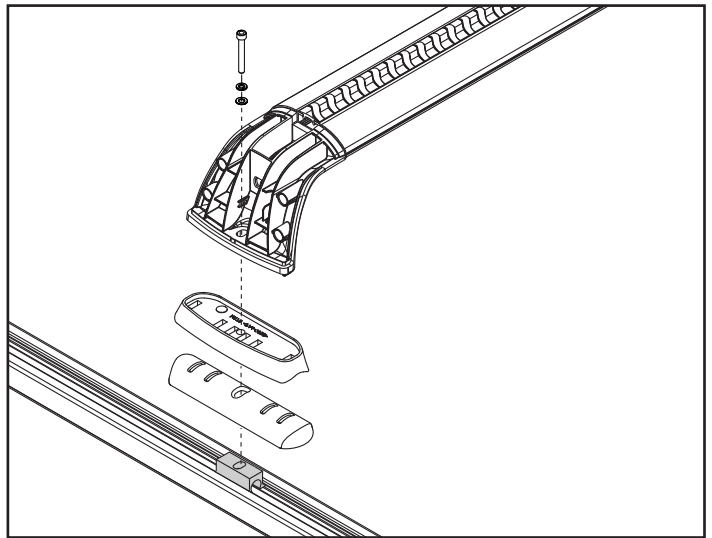


RVL, RVH 2,4,6 Kits

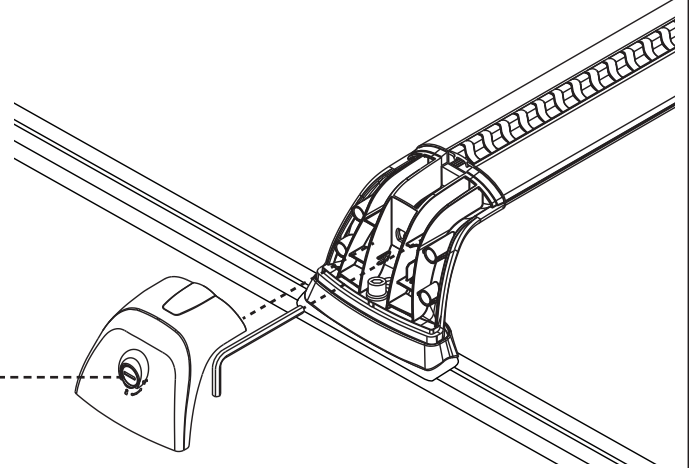
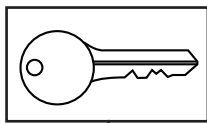
Installing to Tracks (RST fits)

- 1** Fix the completed Crossbars to the vehicle specific Base Kit that has been purchased using the Allen Key provided. Fit the crossbars to the tracks using an RTV-BK kit.

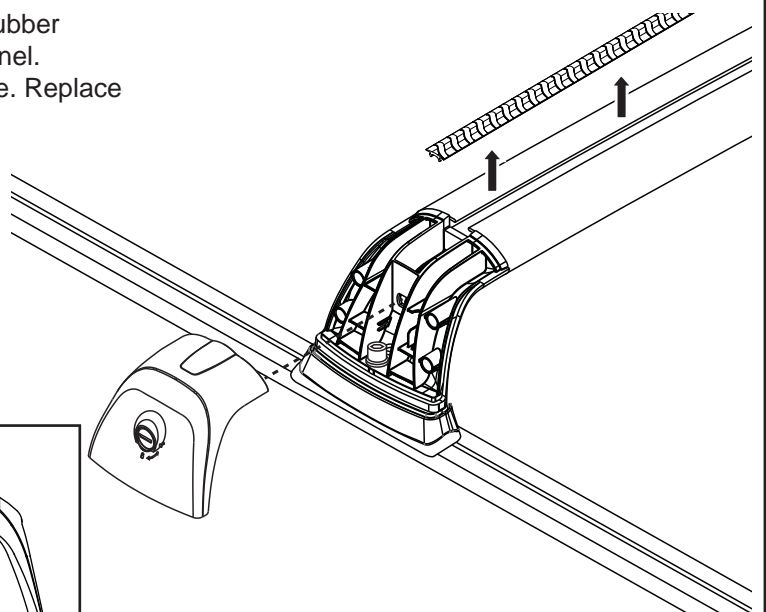
Note: Images are example only. RVL/RVH legs can be fit to either tracks or pads. Pads and track fit kits are sold as separate.



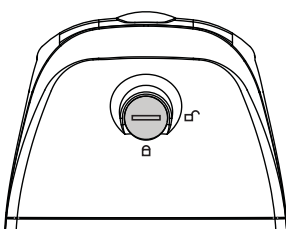
- 2** Replace the Allen Key and Cover Plate. Lock with Key Provided.



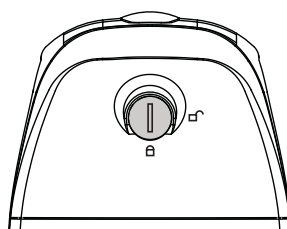
Note: Remove the Cover Plate and Vortex Rubber to gain access to the Crossbar C Channel. Crossbar accessories can be fitted here. Replace and lock the Cover Plate before use.



Front View:



Open



Close

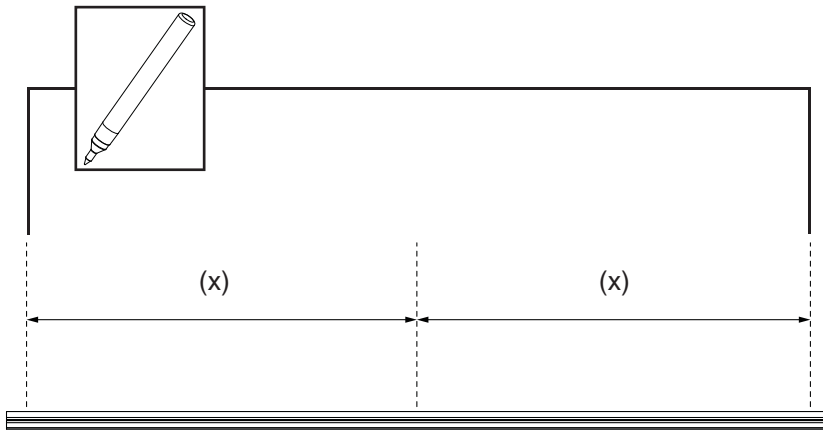


RVL, RVH 2,4,6 Kits

Note: For installation direct to the roof of the vehicle (RSF fits), Refer to RCP-JB instructions (document number R1043)

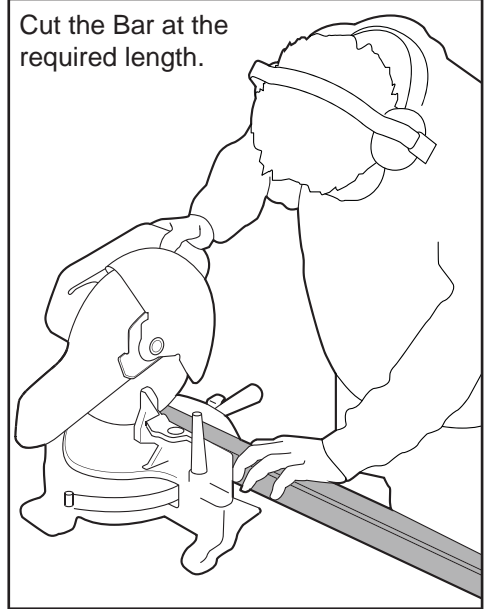
Installing to Vortex Bars

- 1** Measure the desired length out **from the centre of the Vortex Bar** and create a reference with Marker. Carefully cut the bar at these markings using a Saw with an Alloy Cutting Blade.



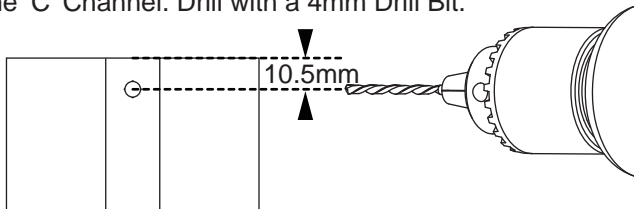
Side View: Always measure out from the centre of the bar to get the required size.

Cut the Bar at the required length.

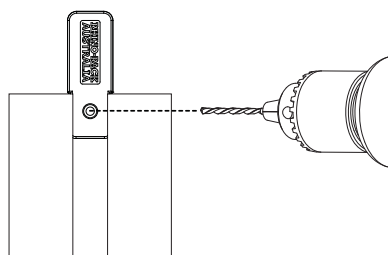


- 2** With the Bars cut, measure back 10.5mm from the end of the 'C' Channel and **drill a pilot hole in the centre of the channel**. Use a 4mm Drill Bit.

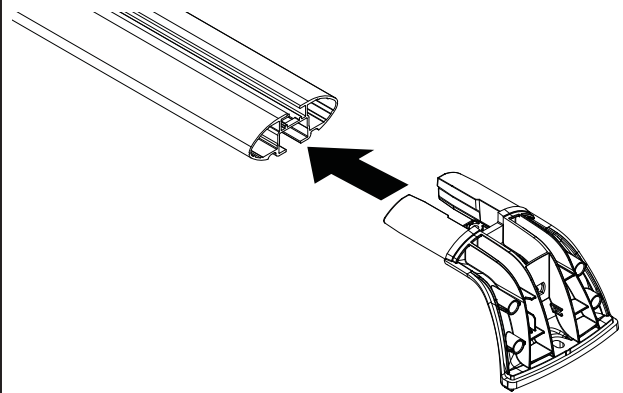
Top View: Measure 10.5mm back from the end of the 'C' Channel. Drill with a 4mm Drill Bit.



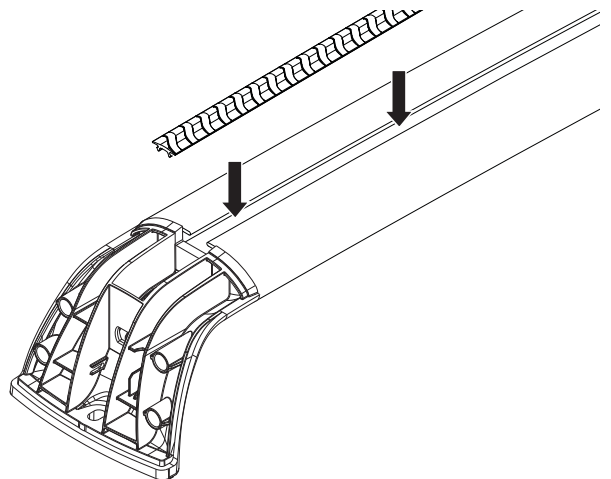
Note: RDJVA drill jig is available to ensure a precise fitment (sold as separate).



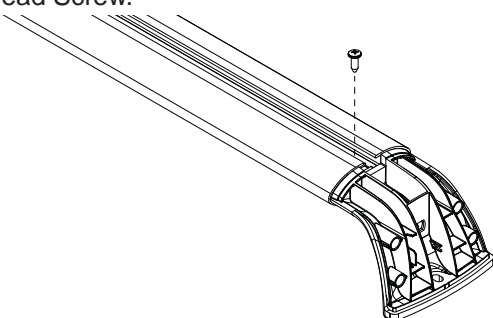
- 3** Insert the Locking Leg into the Crossbar.



- 5** Insert Vortex Rubber. Cut to size if required.



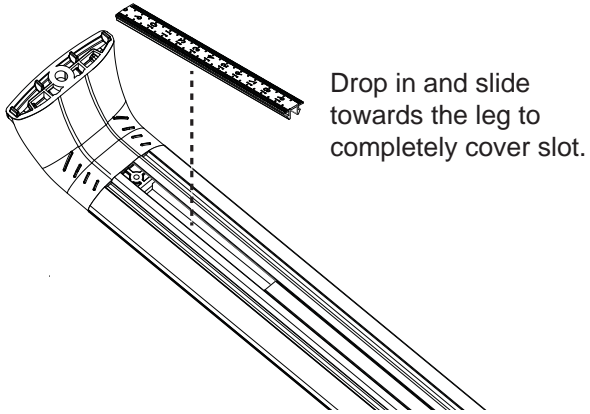
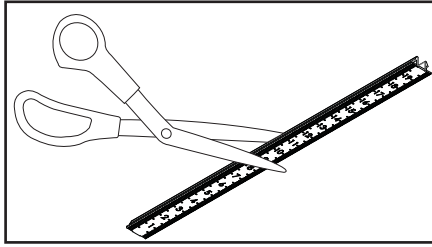
- 4** Screw the Locking Leg in place using a Phillips Head Screw.



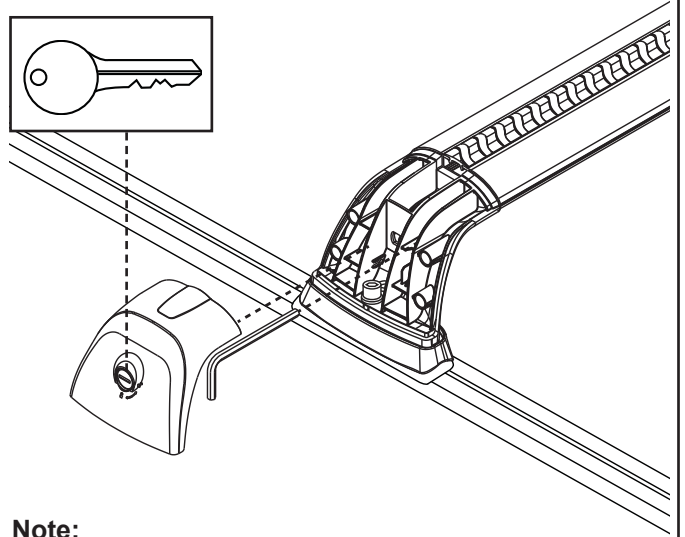


RVL, RVH 2,4,6 Kits

- 6** Cut the Vortex Underbar Strip to size and fit into the exposed slot as shown.

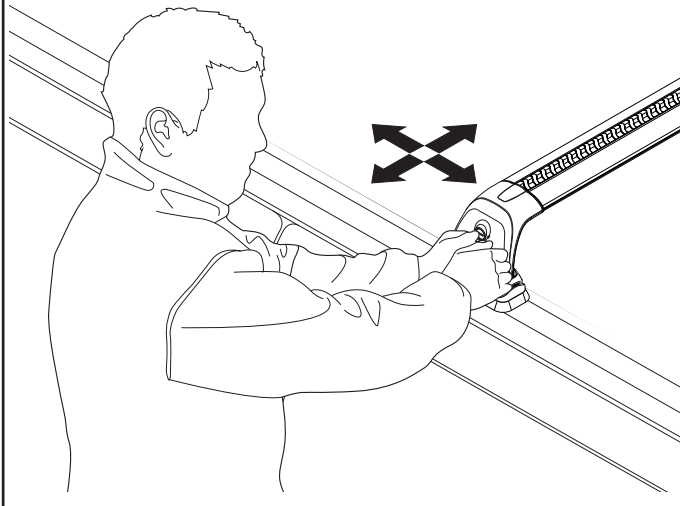


- 7** Fix the completed Crossbars to the vehicle specific Base Kit that has been purchased using the Allen Key provided.



Note:
Fixture will vary vehicle to vehicle as will hardware. **Use the instructions within the Locking Base kit.**

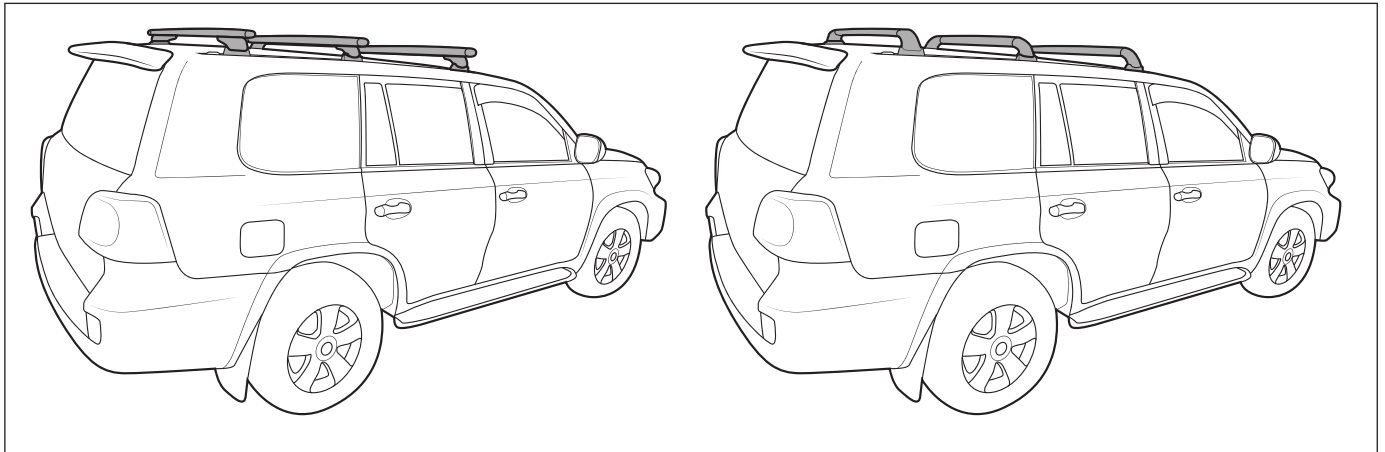
- 8** Check all fixtures are secure before use.



RHINO-RACK

RCP17-BK - Rhino-Rack Crossbar System Toyota Land Cruiser 200 Series

Important: Please read these instructions carefully prior to installation.
Please refer to your fitting instruction to ensure that the roof racks are installed in the correct locations.
Check the contents of this kit before commencing fitment and report any discrepancies.
Place these instructions in the vehicle's glove box after installation is complete.



Maximum roof load: 150kg

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

Refer to vehicle manufacturers handbook for maximum roof loading. Always use lower of the two figures.

Three crossbars = 150kg (330lbs)

Two crossbars = 100kg (220lbs)

One crossbar = 50kg (110lbs)

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 (probably once a week is enough, depending on road conditions, usage, loads and distances travelled). You should also check the crossbars each time they are refitted. Make sure to fasten your load securely. Please ensure that all loads are evenly distributed and that the centre of gravity is kept as low as possible.

Crossbars must be removed when putting vehicle through an automatic car wash.

Carrying Loads: Use only non-stretch fastening ropes or straps to secure your load.

Caution: The handling characteristics of the vehicle change when you transport a load on the roof. For safety reasons we recommend you exercise extreme care when transporting wind-resistant loads. Special consideration must be taken into account when cornering and braking.

Load Ratings:

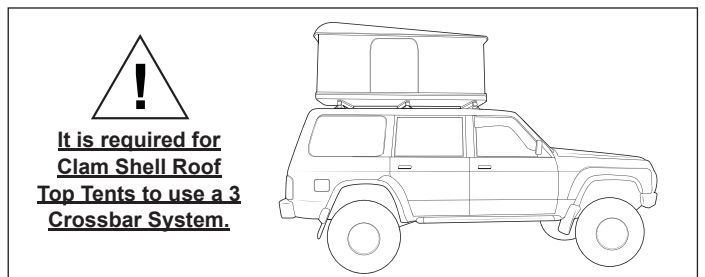
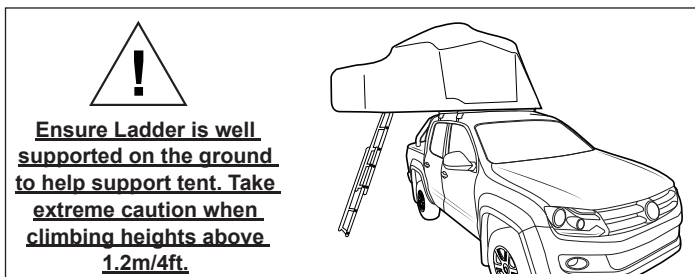
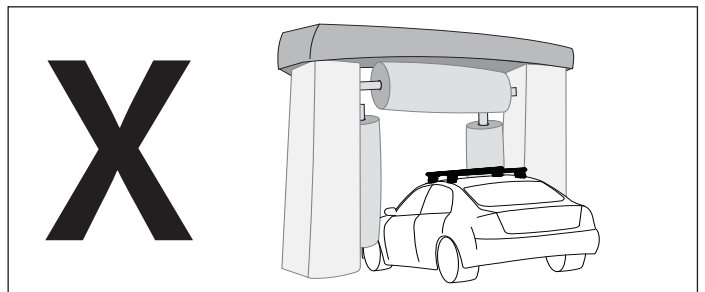
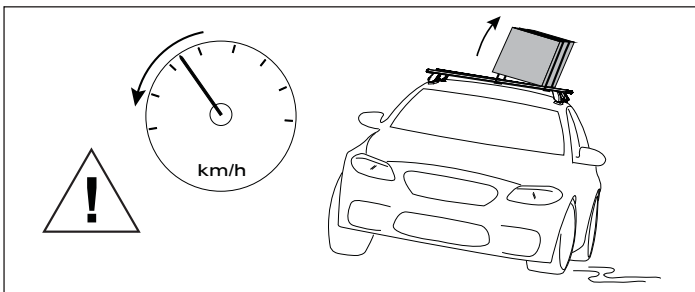
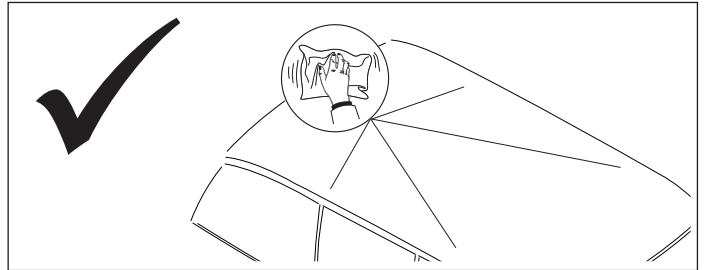
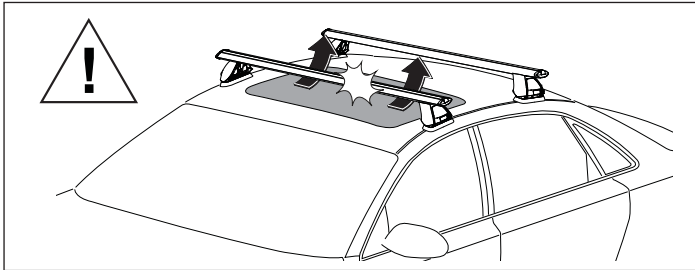
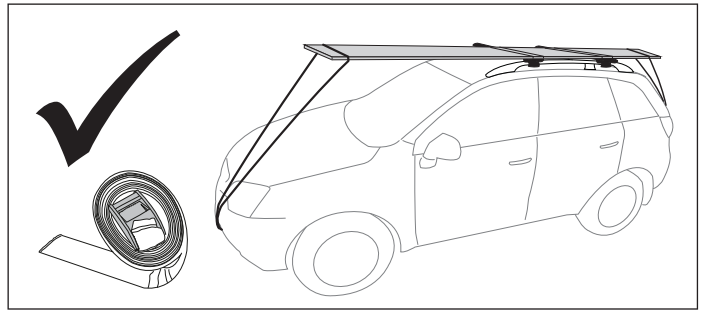
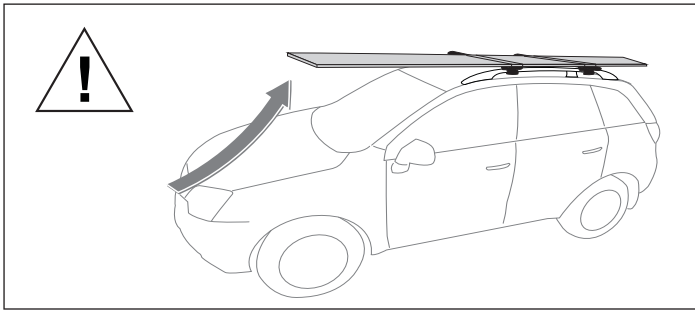
Maximum permissible load is; 150kg (330lbs) for three crossbars, 100kg (220lbs) for two crossbars, 50kg (110lbs) for one crossbar including the weight of the crossbars, 7.5kg (16.5lbs) three crossbars, 5kg (11lbs) two crossbars, 2.5kg (5.5lbs) one crossbar. When crossbars are to be used in off-road conditions, please build a safety factor of 1.5 into this load limit for off-road use, three crossbars = **100kg (220lbs)**, two crossbars = **66kg (145lbs)**, one crossbar = **33kg (72lbs)**. Although the crossbars are tested and approved to AS1235-2000, off-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:

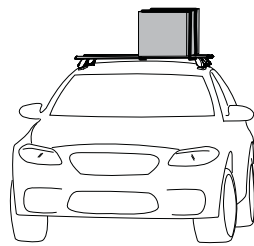
It is your responsibility to ensure instructions are given to the end user or client.



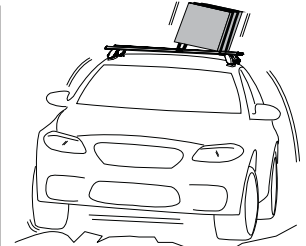
RCP17-BK - Toyota Land Cruiser 200



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.

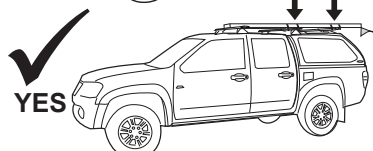
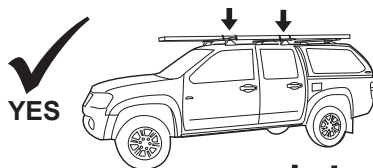
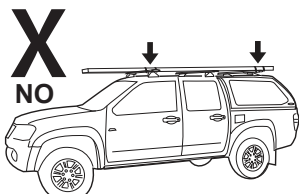


3 bars 150kg (330lbs) load rating (Urban road)	=	3 bars 100kg (220lbs) load rating (Off road)
2 bars 100kg (220lbs) load		2 bars 66kg (145lbs) load
Load rating not taking into account crossbar weight - 5kg		

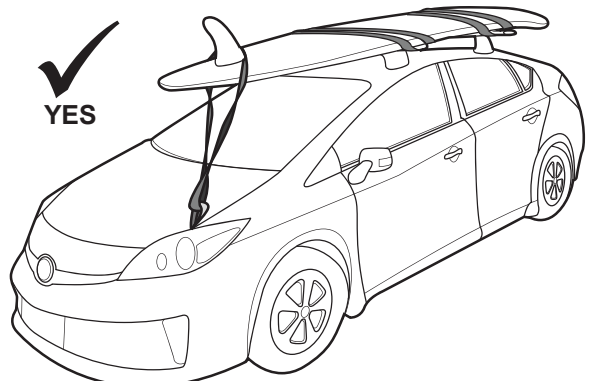


WARNING! Important Load Carrying Instructions

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.



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

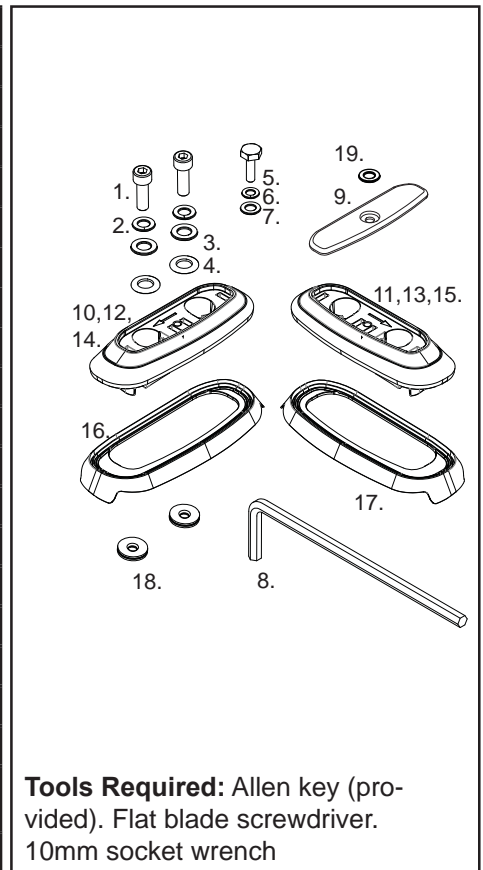




RCP17-BK - Toyota Land Cruiser 200

Parts List

Item	Component Name	F	M	R	3 Bar	Part No.
1	M8 x 40mm Socket Head Screw	4	4	4	12	B162
2	M8 Spring Washer	4	4	4	12	W043
3	M8 Flat Washer	4	4	4	12	W019
4	Mounting Pad O Ring	4	4	4	12	C299
5	M6 x 30mm Hex Setscrew	2	2	2	6	B202
6	M6 Spring Washer	2	2	2	6	W004
7	M6 x 16mm Flat Washer	2	2	2	6	W031
8	6mm Allen Key	1	1	1	1	H009
9	Pad Cover Plate	2	2	2	6	M126
10	Front Right Mounting Pad	1	-	-	1	M355
11	Front Left Mounting Pad	1	-	-	1	M354
12	Middle Right Mounting Pad	-	1	-	1	M357
13	Middle Left Mounting Pad	-	1	-	1	M356
14	Rear Right Mounting Pad	-	-	1	1	M359
15	Rear Left Mounting Pad	-	-	1	1	M358
16	Mounting Pad Gasket Right	1	1	1	3	M361
17	Mounting Pad Gasket Left	1	1	1 <td 3	M360	
18	Mounting Pad Washer	4	4	4	12	C588
19	M6 Washer (used on cover plate)	2	2	2	6	W003
20	Instructions	1	1	1	1	R1288

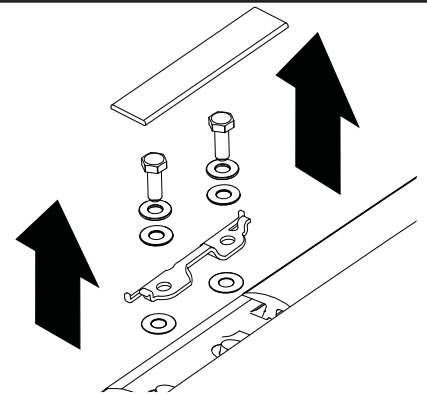


Tools Required: Allen key (provided). Flat blade screwdriver. 10mm socket wrench

Instructions

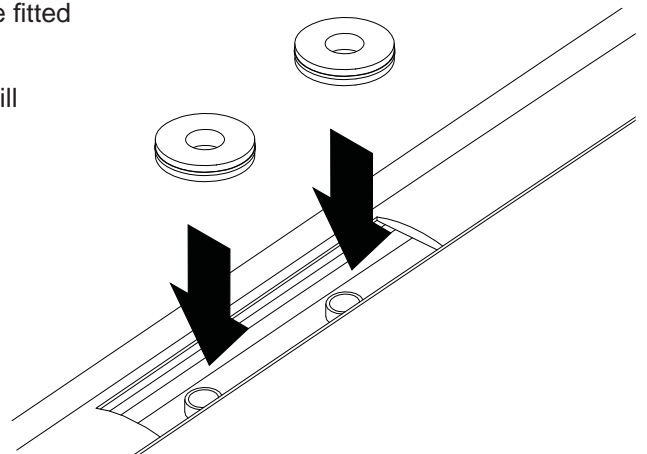
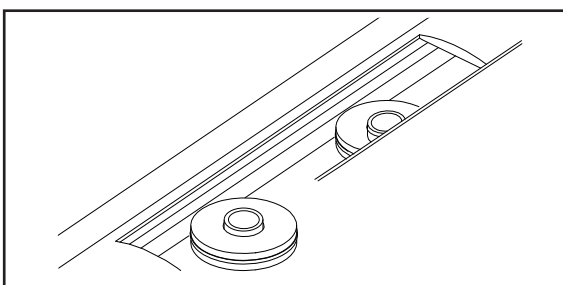
- 1 Remove the roof trim covers with a flat blade screwdriver carefully. Remove all brackets, bolts and washers using a 13mm socket. Store the covers and attachment hardware for future use if needed.

NOTE: The existing bolts and washers are not used to fit the roof rack mounting pads.



- 2 Place the foam covered mounting pad washers (item 20) over the plastic tubes in the roof channel. Make sure they are fitted neatly around the plastic tubes.

NOTE: Failure to fit the foam covered copper washers will result in water leaks.





RCP17-BK - Toyota Land Cruiser 200

- 3** Place each Mounting Pad into a corresponding Mounting Gasket. The Gaskets are identified with L and R notations (left and right).

Right Side:

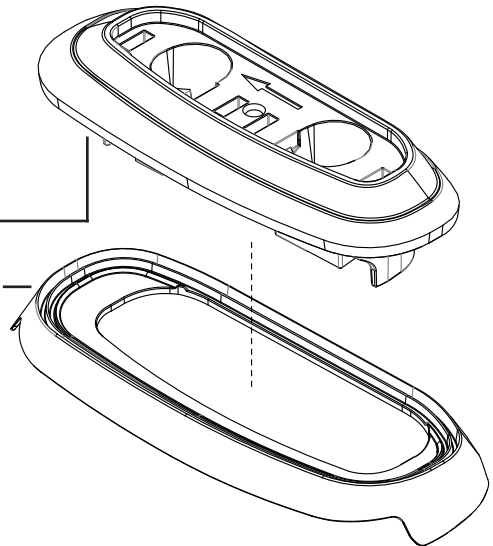
Front M355
Middle M357 R GASKET
Rear M359

Left Side:

Front M354
Middle M356 L GASKET
Rear M358

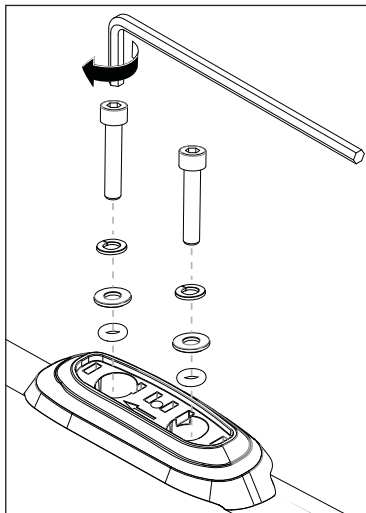
Mounting Pad

Mounting Gasket

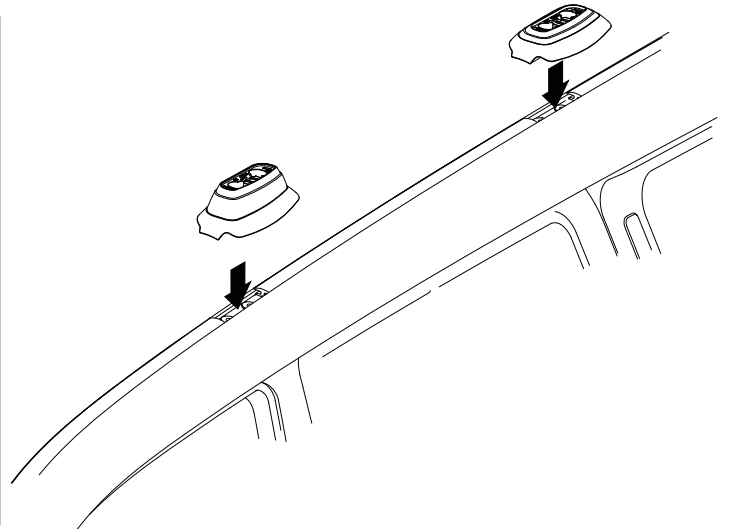
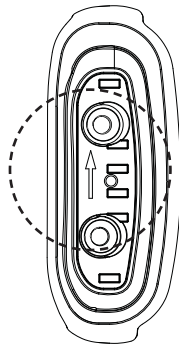


- 4** Place each pad into its position as stated in the previous step. Check to make sure the rubber skirt does NOT fold or twist when placed on the roof. It must flare out over surface of the roof.

Assemble M8 x 40mm bolt, washers and O-ring in the order shown. Push the O-ring up against the washers before locating into mounting pad. Finger tighten each pad first to ensure all parts are seated correctly.

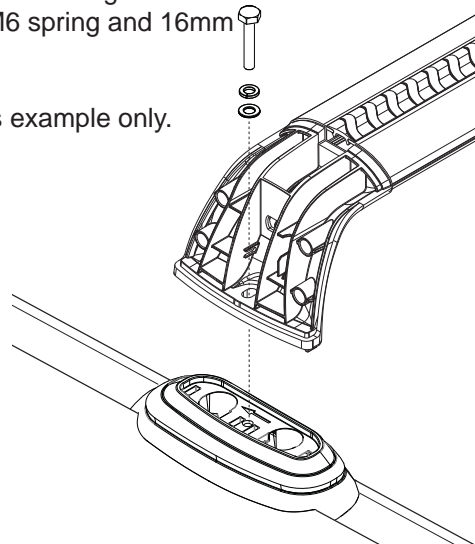


Note: Arrows on Pads face forward.



- 5** Install assembled crossbars using the M6 x 30mm hex setscrews, M6 spring and 16mm flat washers.

Note: RVL leg shown as example only.



When crossbars are not in use, install the pad cover plates provided.

