



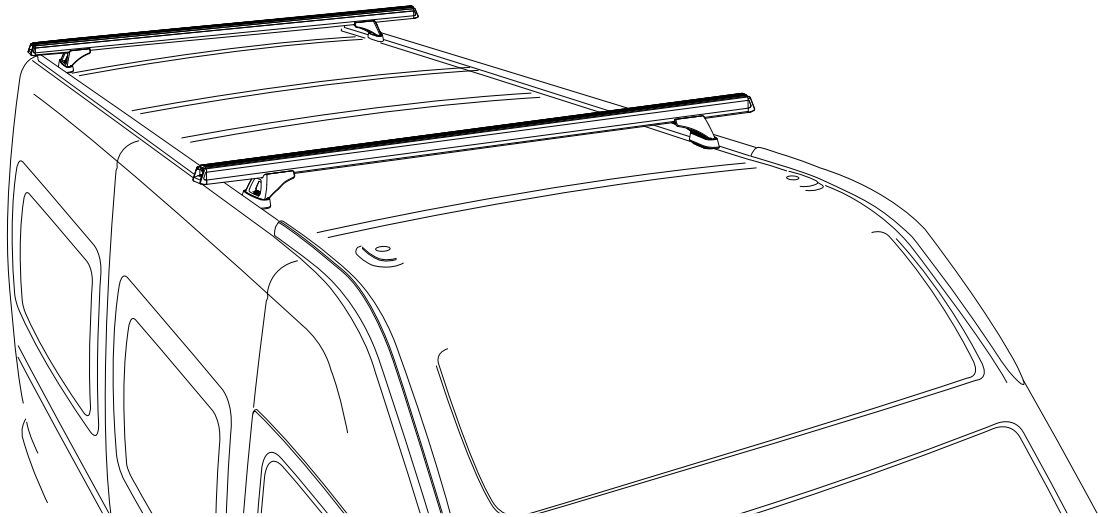
# RHINO-RACK

Aerodynamic & Heavy Duty Roof Rack Systems

## RLCP20 - Two, Three and Four Crossbar System. Renault Master, Opel Movano, Vauxhall Movano, Nissan Interstar.

**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 kit before commencing fitment and report any discrepancies.



**Care Instruction:** Thoroughly clean the roof rack mounting areas prior to installation.

### Important Information

**Maximum carrying capacity: 100kg (220lbs) evenly distributed over the cross bars.**

**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.

**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.

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

**Load Ratings:**

Maximum permissible load is 100kg (220lbs) for two cross bars 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 cross bars = **66kg 145lbs**). 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.

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Issue No: 06  
Issue Date: 19/09/2011

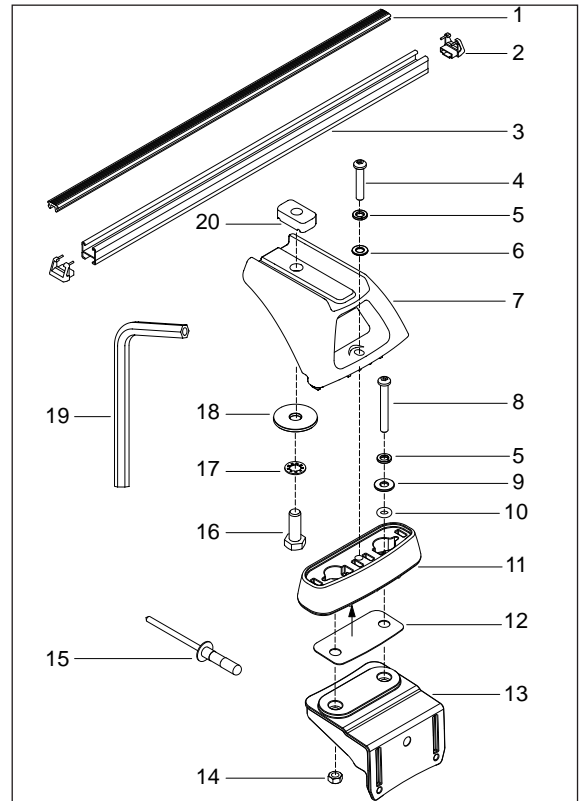
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# RLCP20

## Parts List

Item	Component Name	Qty	Part No.
1	Rubber Buffer 1650mm (Sold Separately)	2 - 4	R004
2	End Cap	4 - 8	M002
3	Crossbar 1650mm (Sold Separately)	2 - 4	A020
4	M6 x 20mm security screw	4 - 8	B062
5	M6 spring washer	12 - 24	W004
6	M6 x 12.5mm flat washer	4 - 8	W003
7	RLCP leg	4 - 8	M123
8	M6 x 35mm security screw	8 - 16	B092
9	M6 x 16mm flat washer	8 - 16	W031
10	6mm x 3mm O-ring	8 - 16	C347
11	RLCP pad	4 - 8	M387
12	Rubber seal (applied)	4 - 8	C655
13	Internal support bracket	4 - 8	M388
14	M6 hex nut	8 - 16	N022
15	5mm rivet	8 - 16	H008
16	M10 x 20mm bolt	4 - 8	B003
17	M10 internal shakeproof washer	4 - 8	W021
18	M10 x 38mm flat washer	4 - 8	W022
19	5mm security allen key	1	H021
20	M10 channel nut	4 - 8	N024
21	Fitting instruction	1	RR-173



### Tools required:

Pneumatic or Concertina rivet gun.  
 Marking pen.  
 Power or Cordless drill.  
 5mm drill.  
 Vacuum cleaner.

Cold galvanizing solution & brush.  
 5mm Security Allen key, included.  
 5/8 or 16mm spanner.  
 Rubber Mallet.  
 Masking Tape.  
 Drill depth stop.

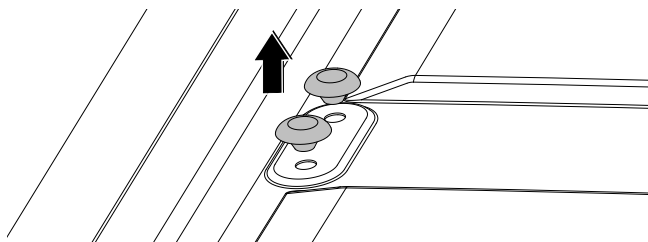


### Drill depth stop.

Round piece of wood or plastic of larger outer diameter than the hole being drilled.  
 5-6 mm hole through centre.

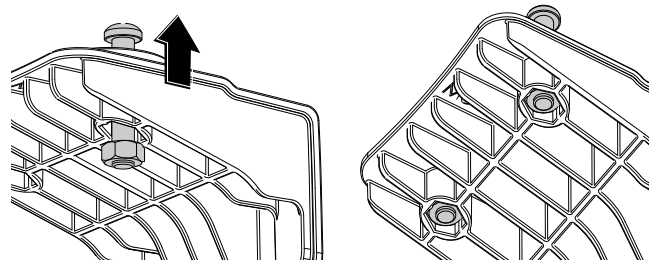
## 1 Remove rubber plugs.

Remove the rubber plugs. Wipe off excess dirt around holes. Keep plugs for future use if roof racks are removed.



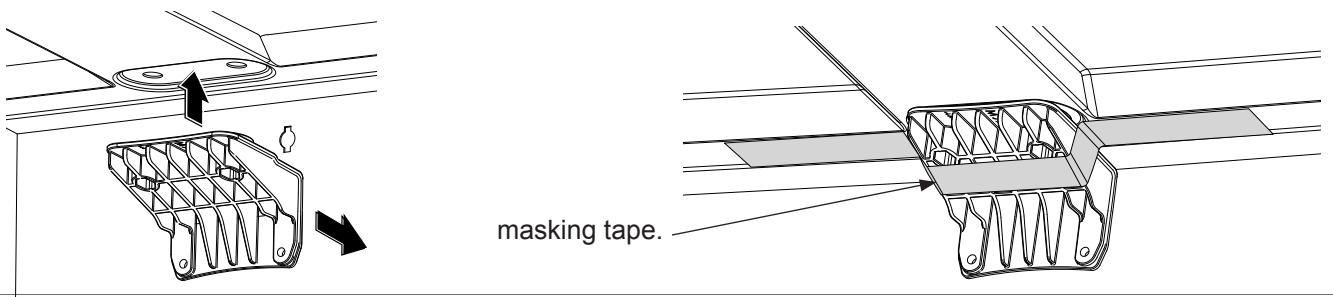
## 2 M6 nuts.

Locate an M6 x 35mm screw through each hole of the internal support bracket. Fasten M6 nut, pull the bolt so the nut locates into support bracket. Remove the screw.



## 3 Internal support bracket.

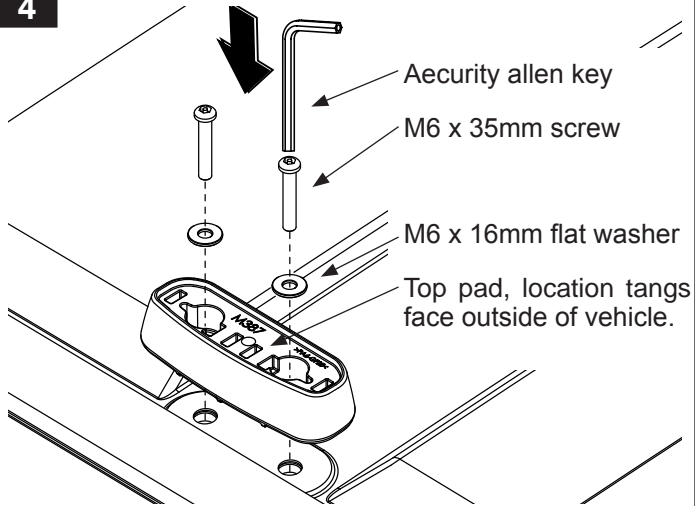
Place internal support bracket on inside of the vehicle underneath holes. Use masking tape to hold bracket against corner of underside roof and inner wall of vehicle.





## RLCP20

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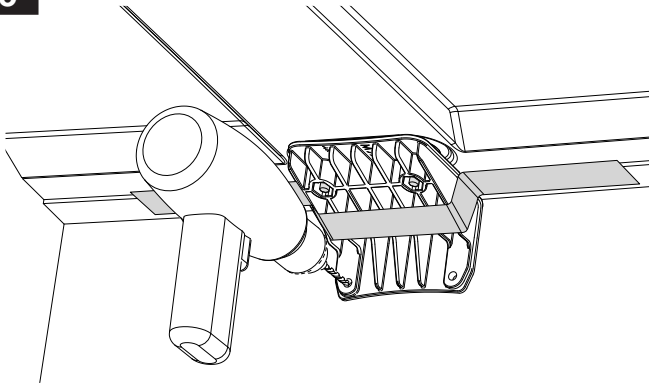
### Fasten pad.

Locate top pad. Place hardware assembly through pad and roof holes to line up with the M6 nuts of internal support bracket. Lightly tension so the pad does not move.

Do not fully tighten at this stage.

**Do not fit the O-rings at this stage.**

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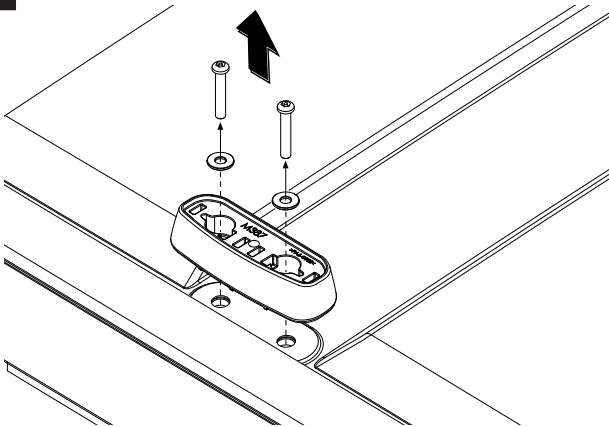


### Spot drill holes.

Spot drill the inside panel of vehicle through the two holes of the internal support bracket using a 5mm drill bit.

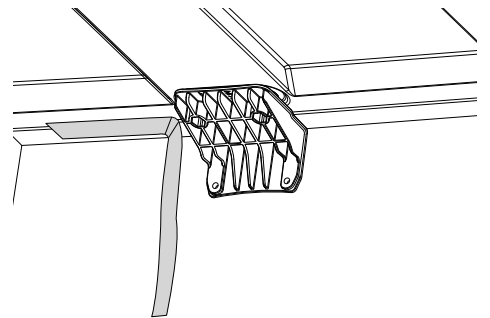
**Do not drill through at this stage.**

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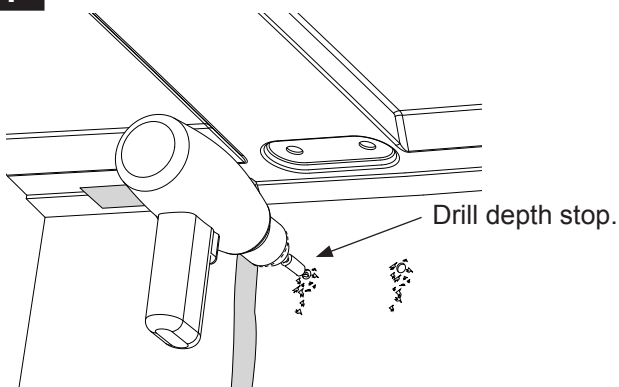


### Remove pad & bracket.

Remove screws. Remove masking tape.



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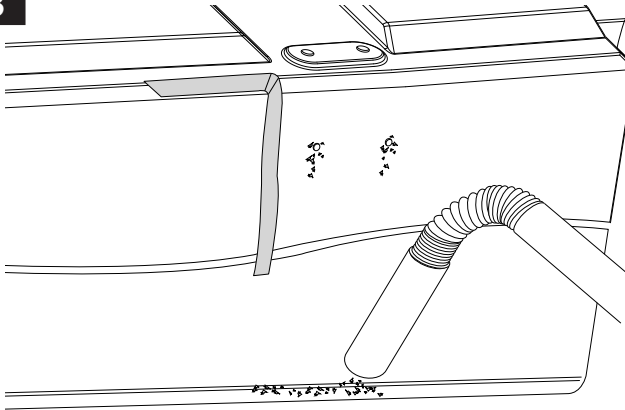
### Drill through.

Use a drill depth stop (refer page 2) to eliminate drilling into the outer skin of the vehicle. Drill through inner panel only using a 5mm drill bit.



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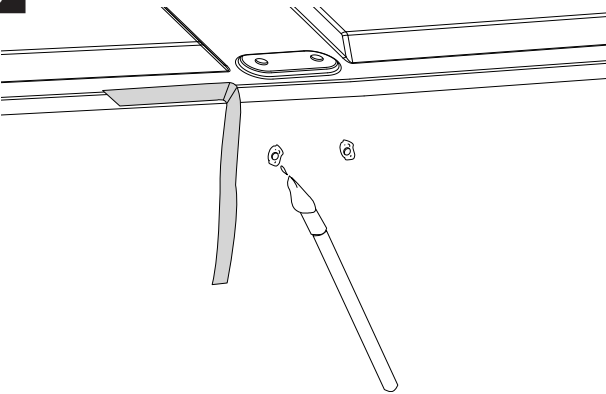
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### Vacuum swarf.

Use a vacuum to remove swarf. This will minimise scratching of the painted surface. Wipe excess from around the drilled holes with a soft rag.

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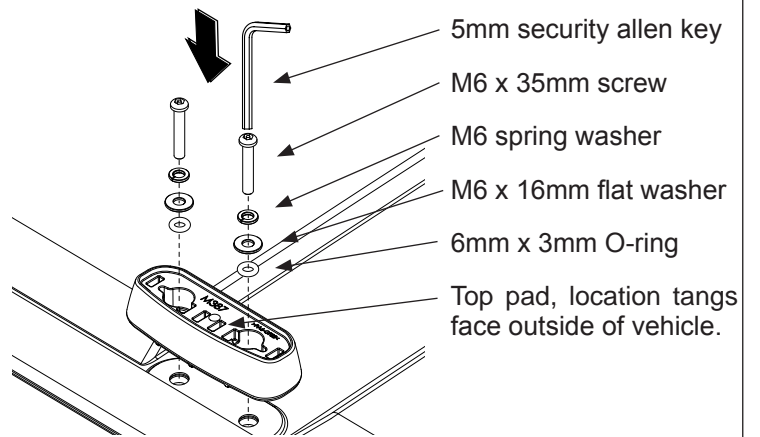
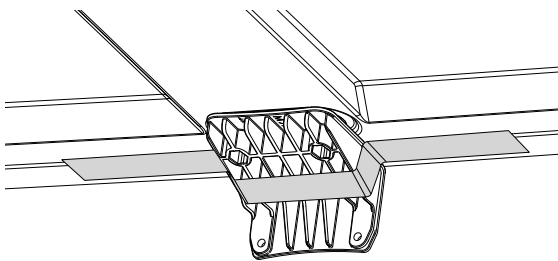
### Rust prevention.

Apply a liberal amount of cold galvanizing solution to the inside and surrounds of drilled holes. Allow cold galvanising solution to touch dry, 10 minutes or so.

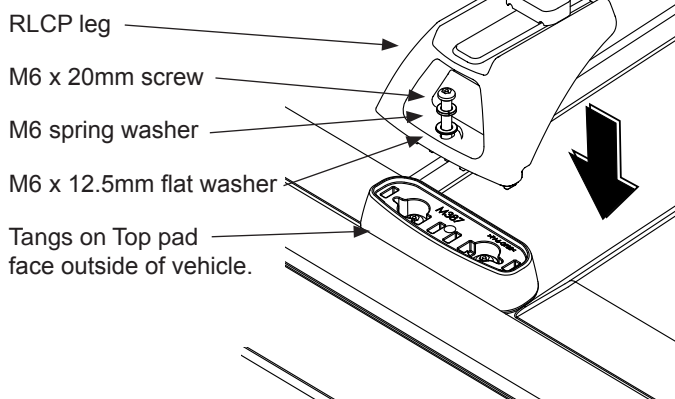
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### Pad & bracket.

Support inside bracket with masking tape. Locate the pad. Fasten with hardware shown in diagram below. Tighten M6 screws to 3-4 Nm.



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### Attach leg.

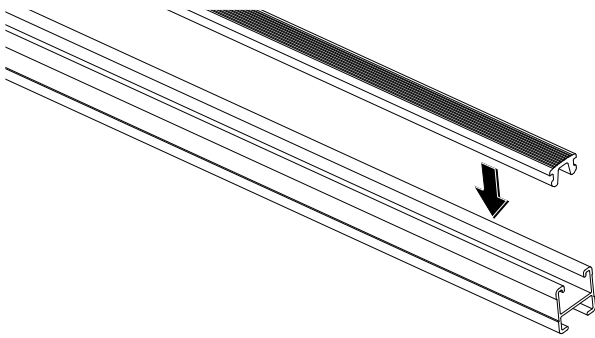
Locate leg. Place the M6 hardware assembly through the leg and fasten to the pad.

**Do not tighten at this stage.**



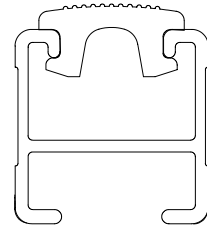
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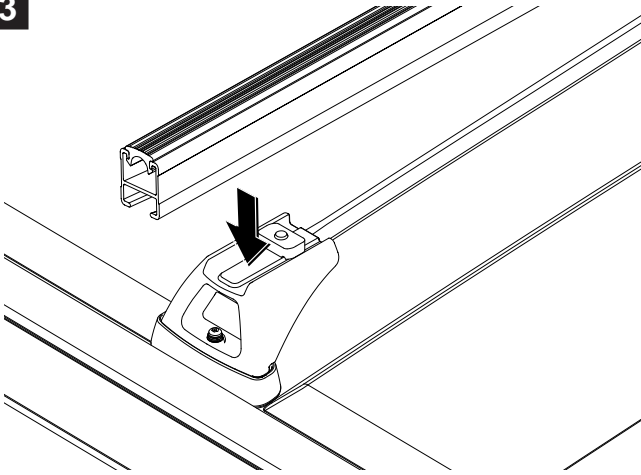


### Crossbar rubber.

Insert crossbar rubber buffer strip.



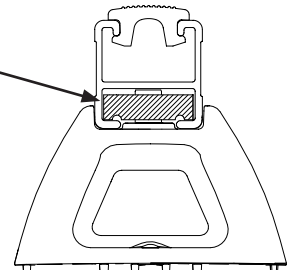
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### Fit crossbars.

Place crossbars onto legs. Make sure the channel nut sits across the bar as shown below.

Channel nut must sit across the bar when tight.



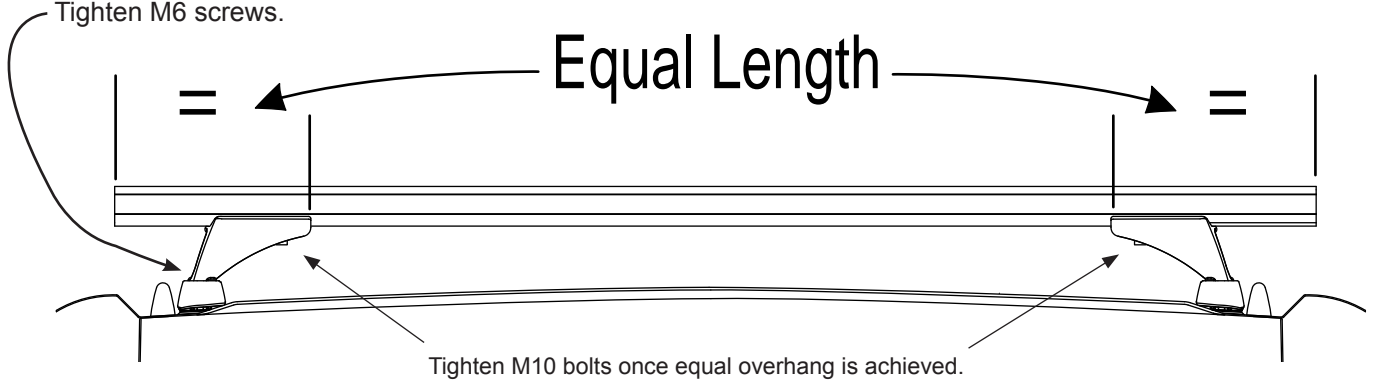
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### Check overhang.

Measure to get equal crossbar overhang each side. Tighten each M6 x 35mm leg screw to **3-4 Nm**. Tighten the M10 x 20mm bolts to **15-16 Nm**.

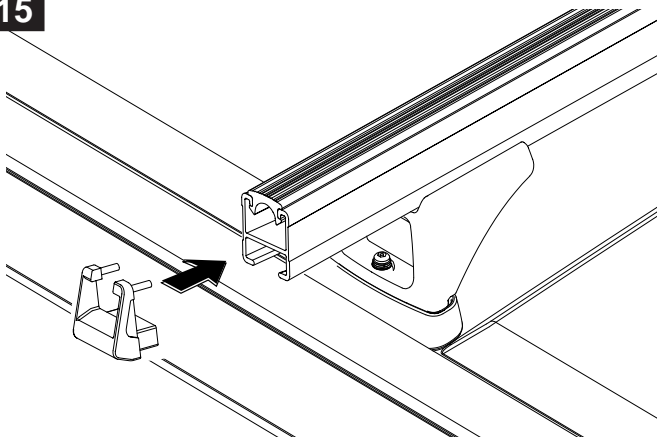
Tighten M6 screws.

Equal Length



Tighten M10 bolts once equal overhang is achieved.

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### End caps.

Fit end caps to the crossbars. A rubber mallet may be needed to knock them in.