



# RHINO-RACK

## QMHD05

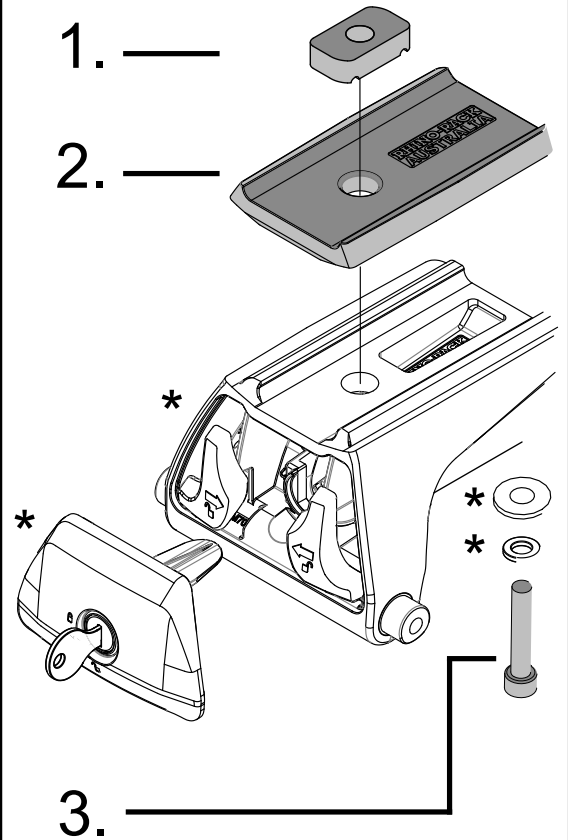
Item	Component Name	Qty	Part No.
1	M6 Channel Nut	2	N002
2	Quick Mount Leg HD Bar Spacer	2	M709
3	M6x30 Socket HD Cap Screw	2	B047
4	Instructions	1	R569

**\*Note:**

RLT600 Parts as separate.  
Fix the Quick Mount Spacer to the Leg using the hardware in the leg kit. The bolts found in the spacer kit will replace the original in the leg kit.

**Tools Required:**

5mm Allen Key



Note: Max Spacer height 30mm

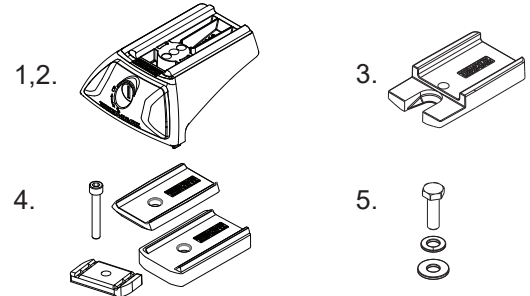


# RHINO-RACK

## Leg Kit - Jeep JK Pioneer Fit Kit

### Parts List

Parts List		4dr JK	2dr JK	Part No.
1	Low Leg Kit (x4 legs)	0	1	RCL4
2	Low Leg kit (x6 legs)	1	0	RCL6
3	Pioneer 10mm Spacer Kit	2	2	QMPS10
4	20mm Spacer Kit	1	0	QMHD20
5	Jeep Hardware Fit Kit	1	1	SUB0800
6	Instructions	1	1	R1813

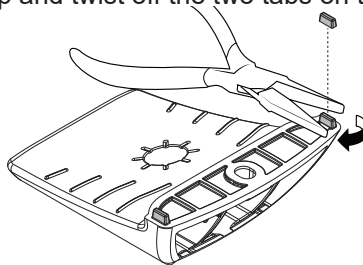


**Note:** The following instructions provide information relating to the RLCP38/RLCP39 fitting a Pioneer Platform, Tray or Tradie Tray to the Jeep JK Backbone. **These kits are sold separately.**

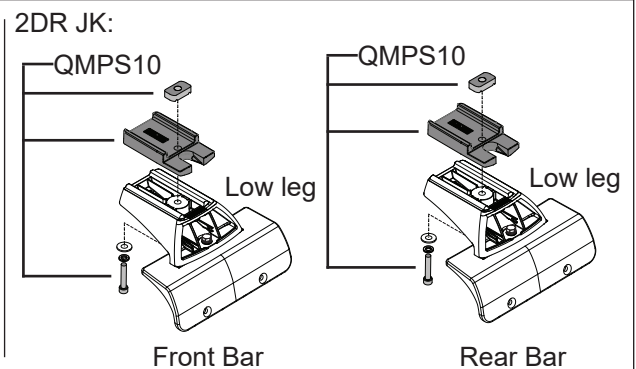
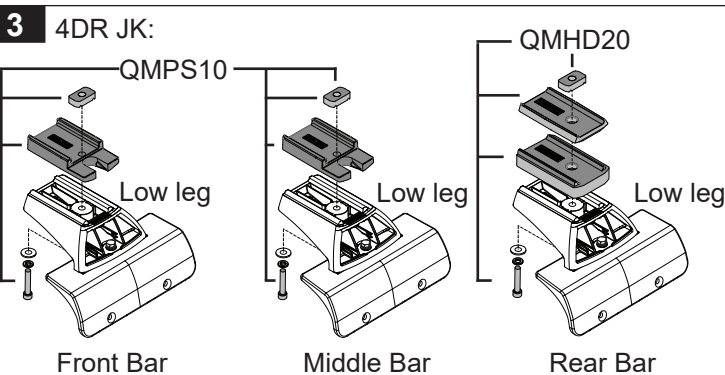
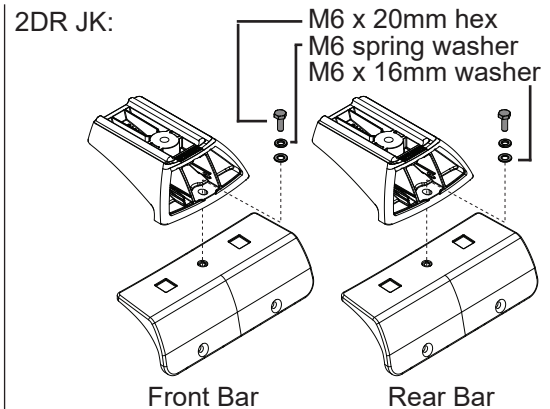
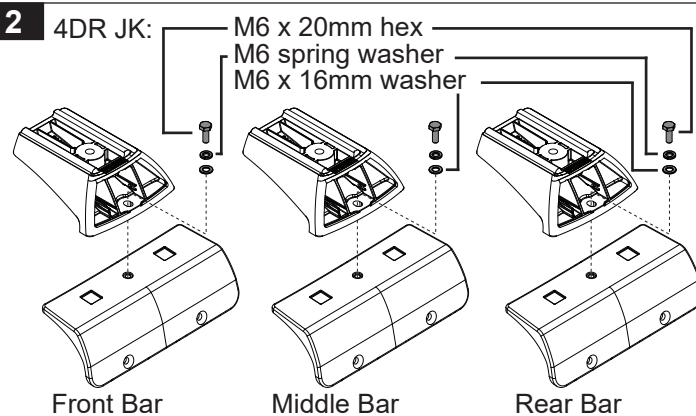
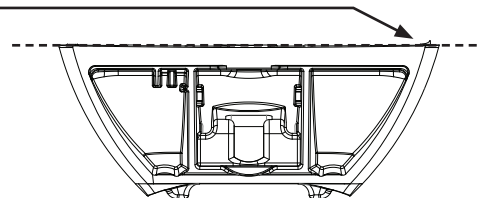
**Tools Required:** 1 - 10mm Socket Wrench. 2 - Pliers.

### Instructions

- 1** The legs of the system must have their locator tabs removed before installing them to the vehicle. Using pliers, grip and twist off the two tabs on the underside of the legs. File down any additional material as required.



The underside of the leg should be flat. File down any material still present after cutting.

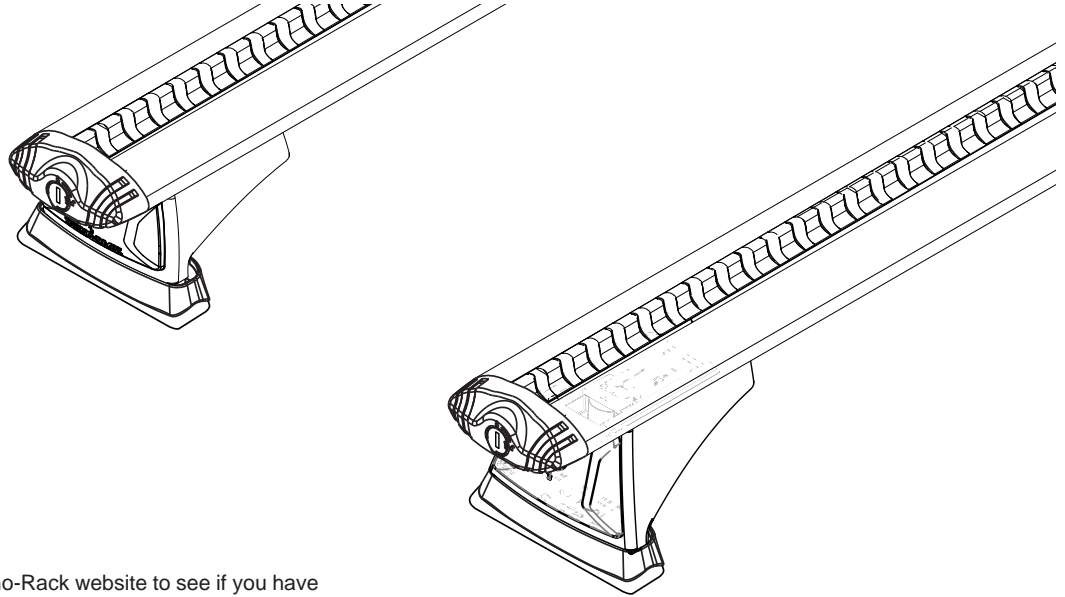




# RHINO-RACK

## RCL, RCH 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.



**Note:** Be sure to check Rhino-Rack website to see if you have the latest version of instructions before beginning installation.

**Maximum load carrying capacity: 100kg / 220lbs**

### 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: Up to 100kg (220lbs)** including the weight of the rack system.

Please refer to your vehicle manufacturers handbook for maximum carrying capacity. Always use the lower of the two figures. Load must be evenly distributed over the entire basket.

**Warning:** 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.

**Use only non-stretch fastening ropes or straps.**

**Recommendations:** It is essential that all bolt connections be checked after driving a short distance when you first install your roof racks. 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 roof racks each time they are re-fitted. Always make sure to fasten your load securely. Please also ensure that all loads are evenly distributed and that the centre of gravity is kept as low as possible and must be entirely contained within the extents of the roof racks. **Rack System must be removed when putting vehicle through an automatic car wash.**

**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.

**Off-road use:**

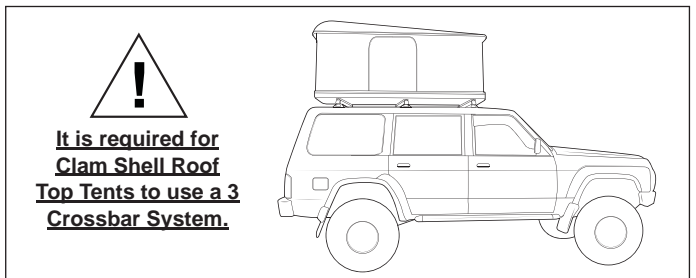
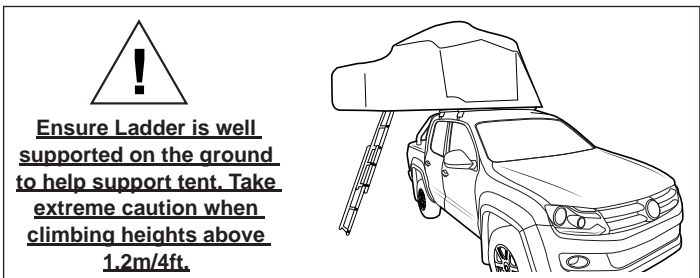
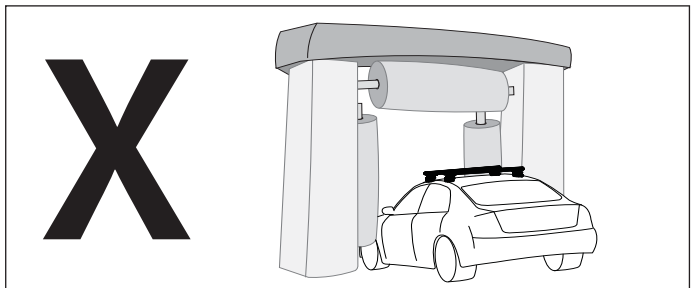
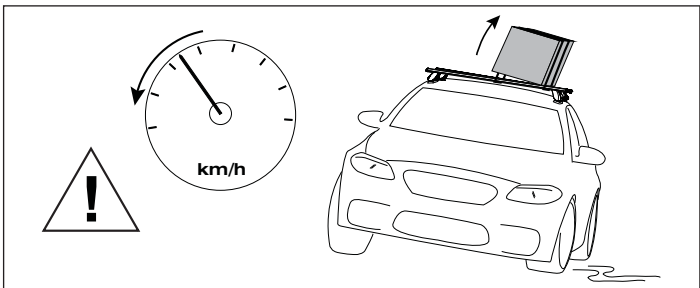
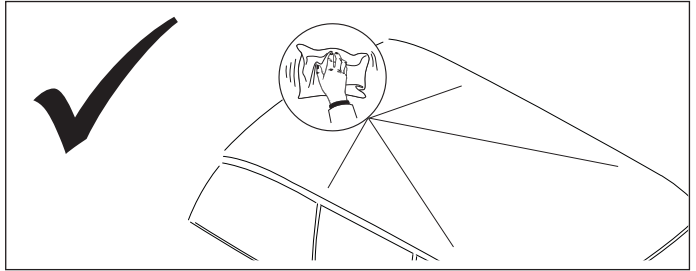
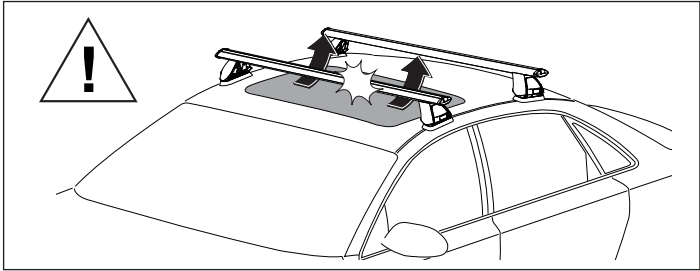
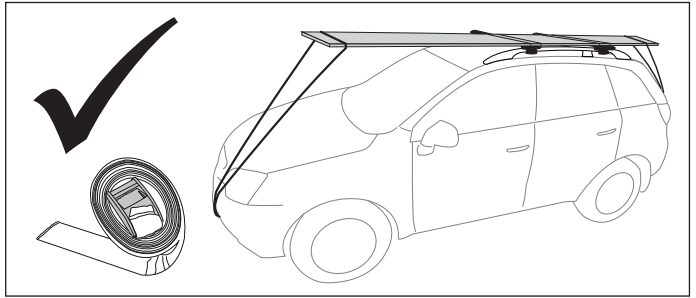
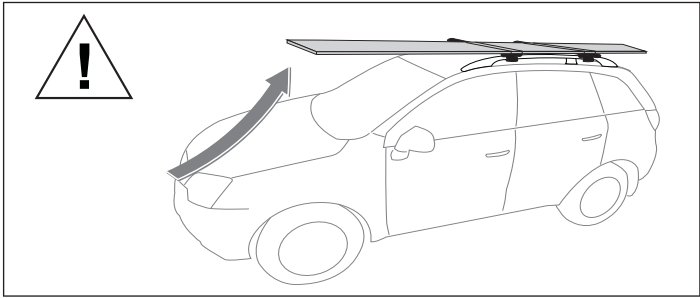
The Roof Rack System may be used in off road applications, however a safety factor of 1.5 is enforced. That is, maximum permissible off road load is **66kg (145lbs)**. Although the crossbars are tested and approved to AS1235-2000/ 15011154, off-road conditions can be much more rigorous. Extreme care must be taken in off road conditions

**Note for Dealers and Fitters:**

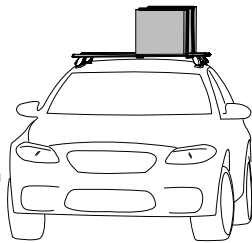
It is your responsibility to ensure these fitting instructions are given to the end user or client.



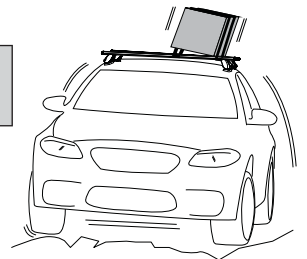
# RCL, RCH 2,4,6 Kits



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.



$$100\text{kg}/220\text{lbs (Urban Road)} = 66\text{kg}/145\text{lbs (Off Road)}$$



**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.

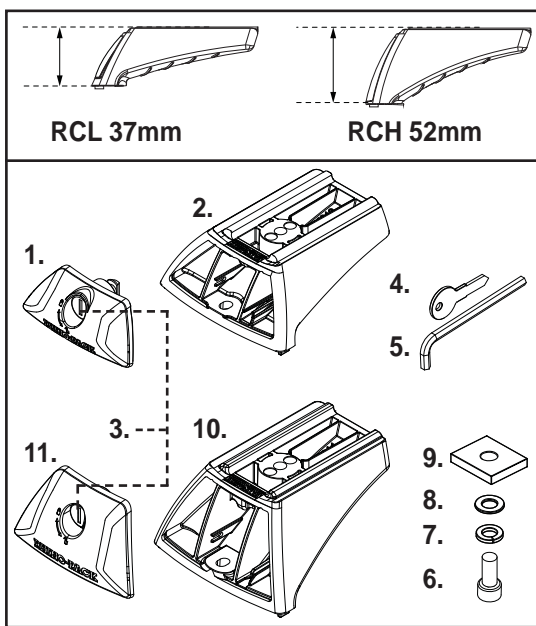
Paddle/ Surfboards should be fixed to the front of the vehicle.



# RCL, RCH 2,4,6 Kits

## Parts List

Item	RCL	2 Kit Qty	4 Kit Qty	6 Kit Qty	Part No.
1	Locking Leg Cover (37mm)	2	4	6	M810
2	Locking Leg Base (37mm)	2	4	6	M813
3	Key Barrel	2	4	6	CA1339
4	Key	1	2	2	-
5	Allen Key	1	1	1	H034
6	M6 x 20mm Socket Head Screw	2	4	6	B054
7	M6 Spring Washer	2	4	6	W004
8	M6 x 16mm Flat Washer	2	4	6	W031
9	M6 Nut 30mm x 25mm	2	4	6	N035A
10	Instructions	1	1	1	R1182
Item	RCH	2 Kit Qty	4 Kit Qty	6 Kit Qty	Part No.
10	Locking Leg Cover (52mm)	2	4	6	M812
11	Locking Leg (52mm)	2	4	6	M811
3	Key Barrel	2	4	6	CA1339
4	Key	1	2	2	-
5	Allen Key	1	1	1	H021
6	M6 x 20mm Socket Head Screw	2	4	6	B054
7	M6 Spring Washer	2	4	6	W004
8	M6 x 16mm Flat Washer	2	4	6	W031
9	M6 Nut 30mm x 25mm	2	4	6	N035A
10	Instructions	1	1	1	R1182



### Tools Required:

Allen Key (provided).  
Metal Key (provided).

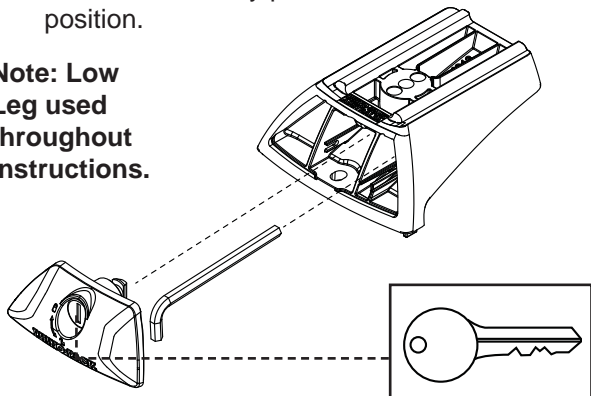
### Notes:

Crossbars and Fit Kits are sold as separate and are required for individual vehicle fits.  
Heavy Duty Bars will require a QMHD05 kit.

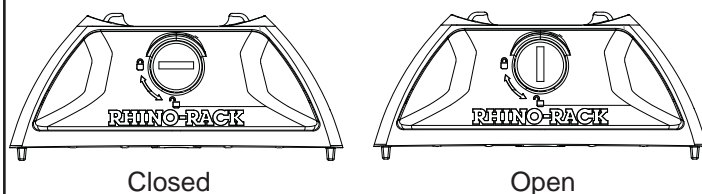
## Instructions

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

**Note: Low Leg used throughout instructions.**

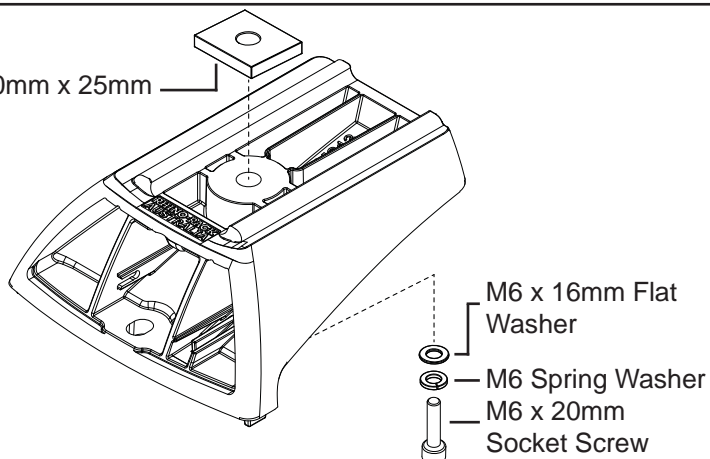


Front View:



- 2** Insert the M6 hardware as shown. Finger tighten only at this stage.

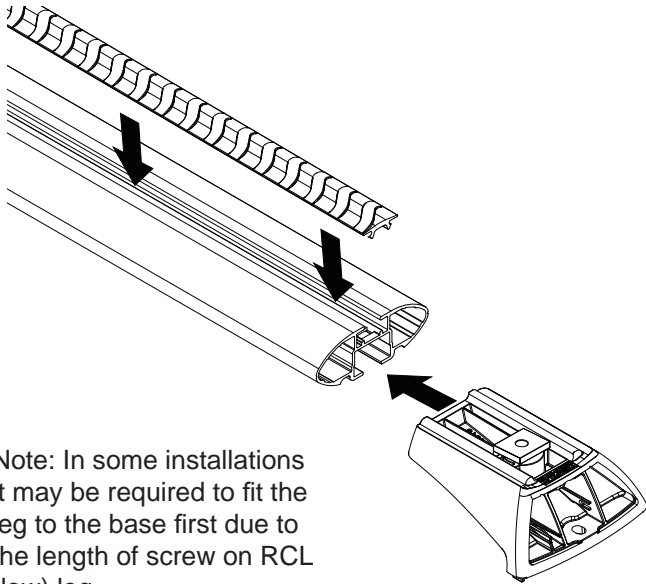
M6 Nut 30mm x 25mm





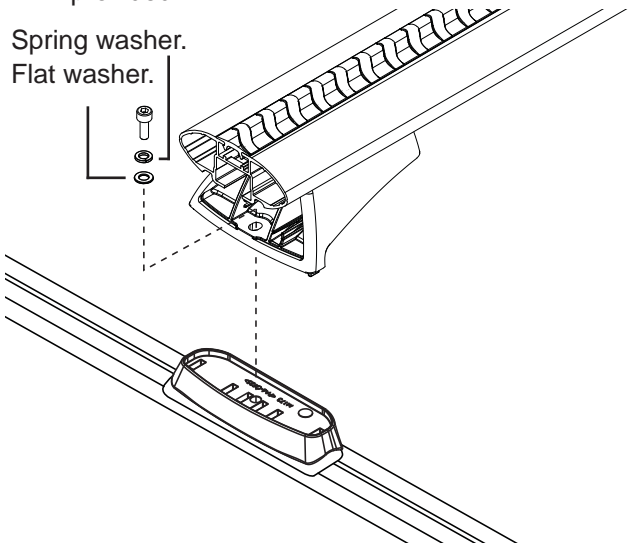
## RCL, RCH 2,4,6 Kits

- 3** Slide the Assembled legs into the Crossbars as shown. Insert Vortex Rubber, cut to length as required.



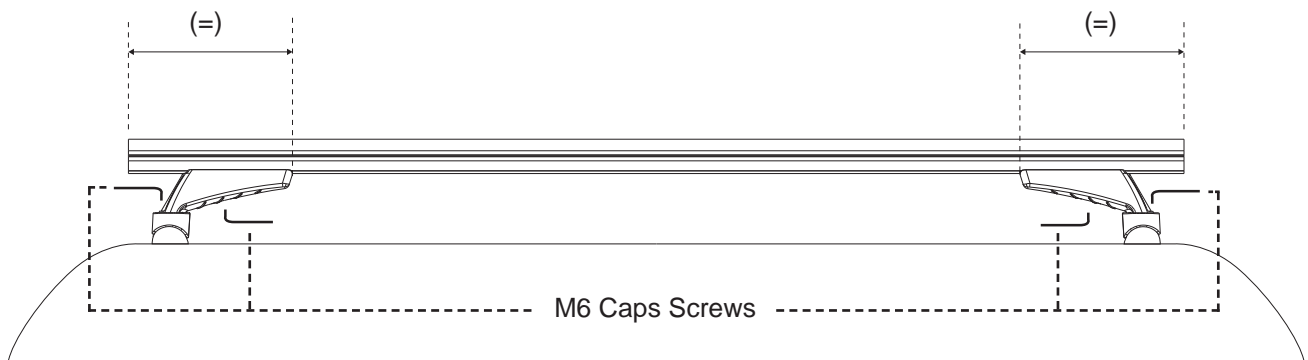
Note: In some installations it may be required to fit the leg to the base first due to the length of screw on RCL (low) leg.

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

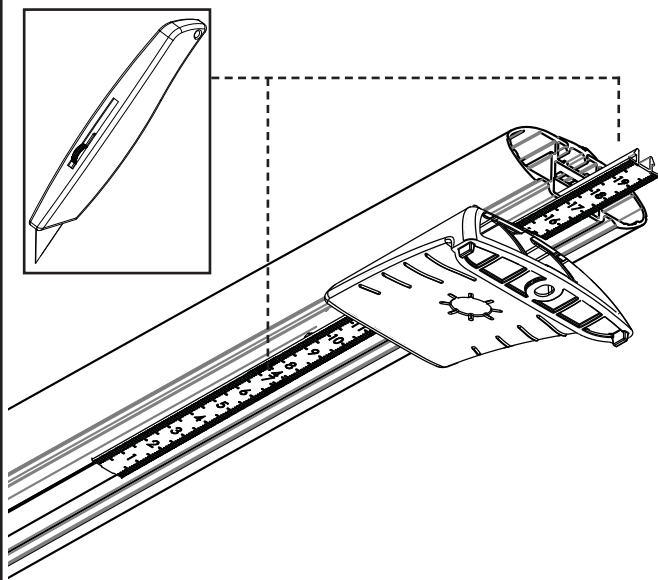


Note: Images are example only. RCL/RCH legs can be fit to either tracks or pads. Pads and track fit kits are sold as separate.

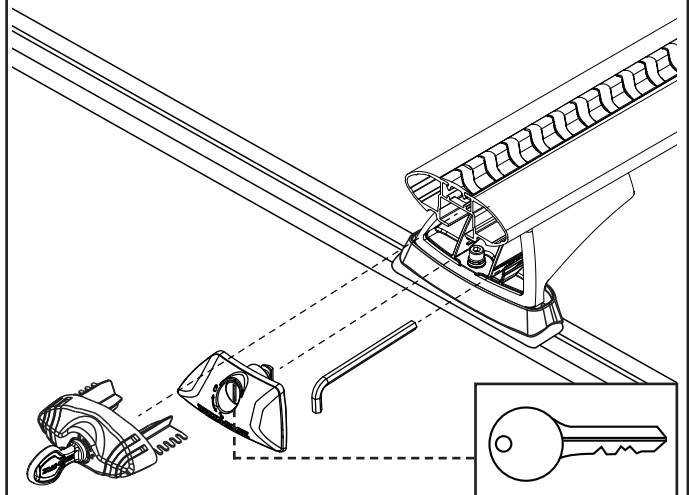
- 5** Ensure the Crossbars have an equal overhang. Tighten the M6 Leg Hardware with the Allen Key provided.



- 6** Insert the Underbar Strips into the slots either side of the installed Leg. Cut to length as required.



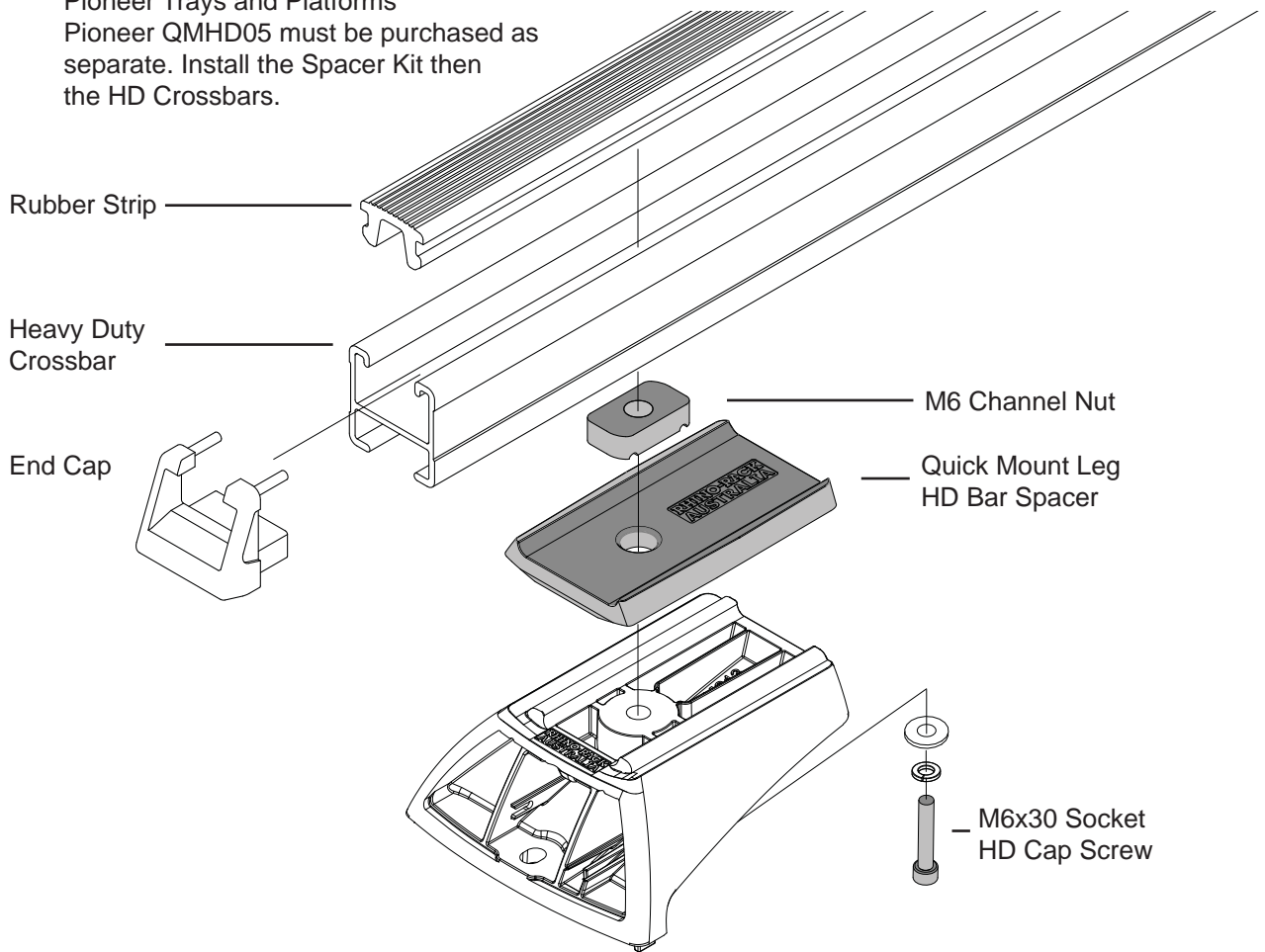
- 7** Insert the Crossbar End Caps and lock in place. Replace the Allen Key and Leg Cover. Lock the Leg Cover Plate with the key provided. Be sure all fixtures are secure before use.



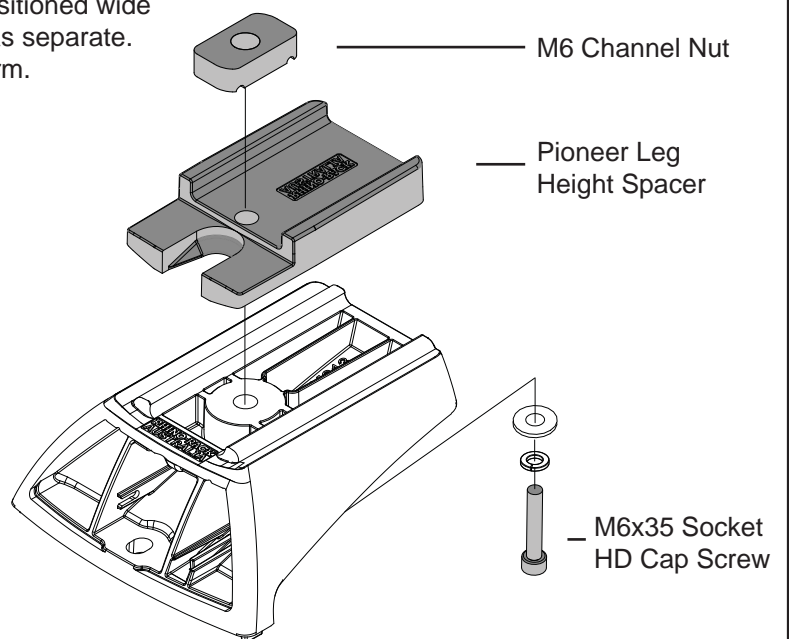


## RCL, RCH 2,4,6 Kits

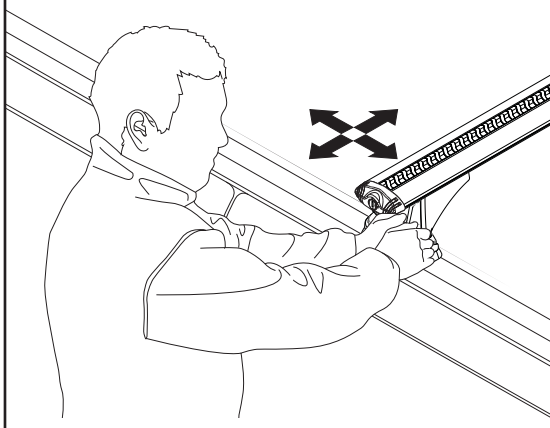
**Note** To fit Legs to Heavy Duty Crossbars, Pioneer Trays and Platforms Pioneer QMHD05 must be purchased as separate. Install the Spacer Kit then the HD Crossbars.



To fit Legs to Pioneer Trays/ Platforms, positioned wide on vehicle, QMPS10 must be purchased as separate. Install the Spacer Kit then the Tray/ Platform.

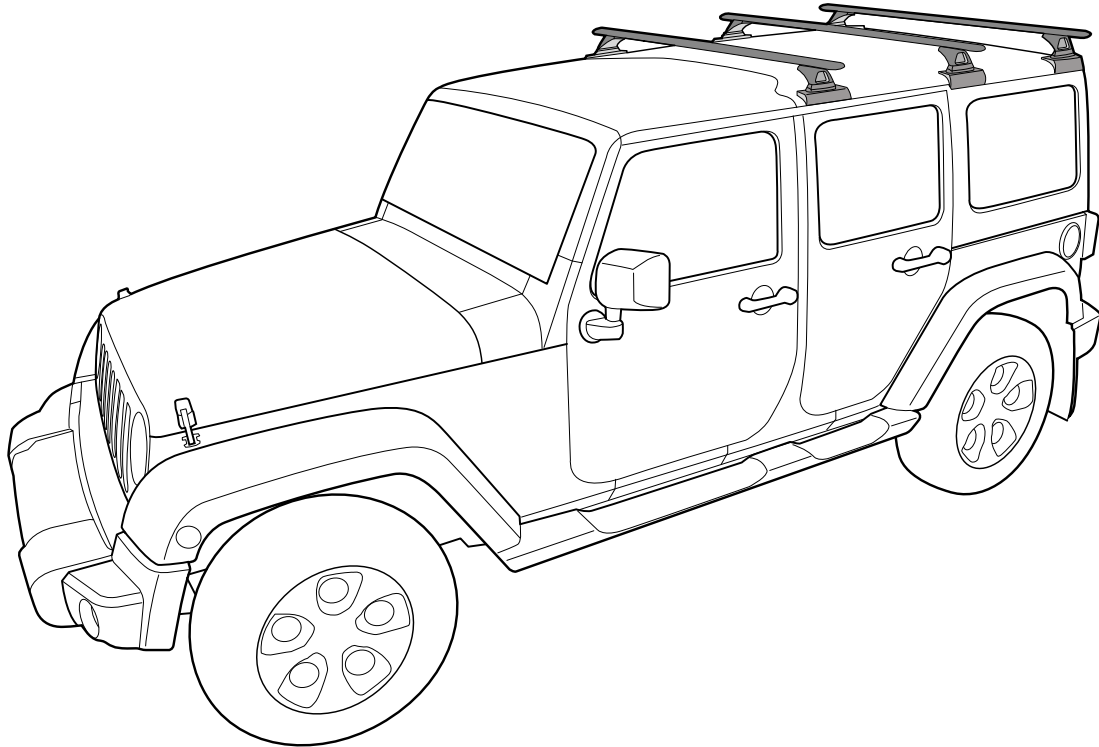


Check all fixtures are secure before use.



# BACKBONE

Jeep Wrangler JK 4dr Hard Top 2007 On



## Important Information

**Max: 120kg (264lbs) - Three Crossbars. Max: 100 (220lbs) - Two Crossbars.** Time: 2 Hours.

Read through instructions before installation. If you are unsure or have any questions, refer to the dealer or place of purchase.

### 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 non stretch ropes.

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

### Load Ratings:

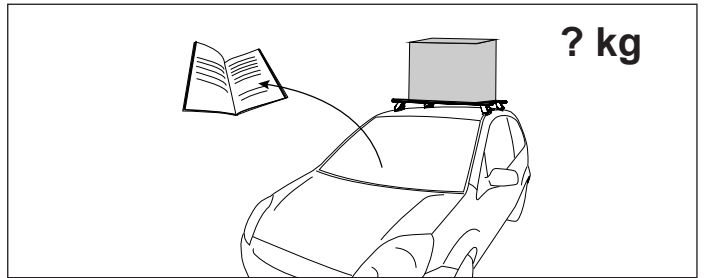
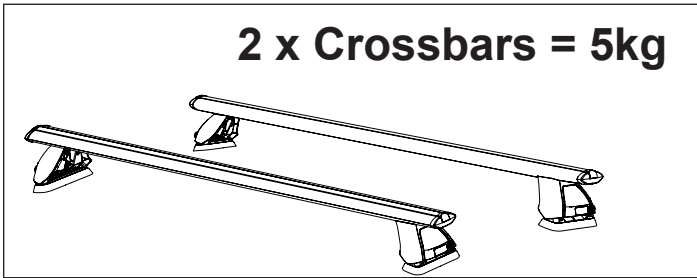
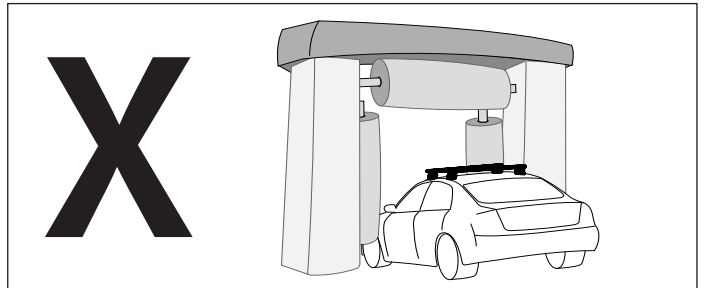
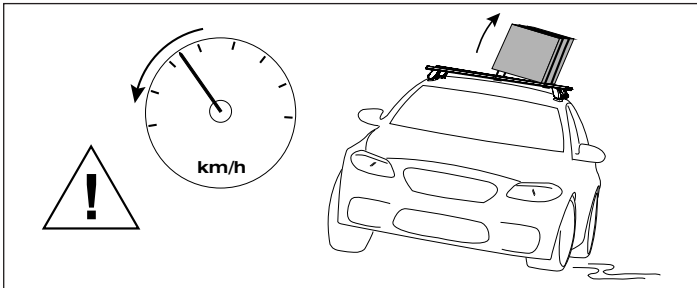
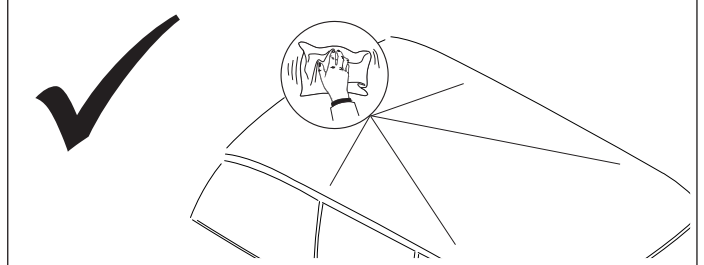
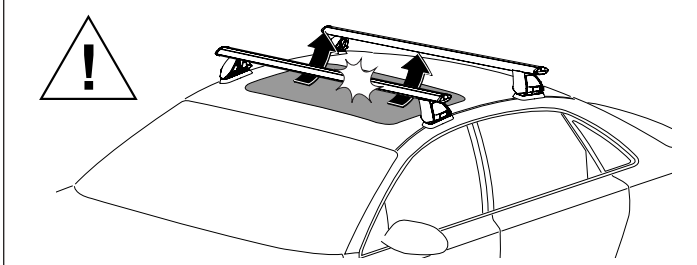
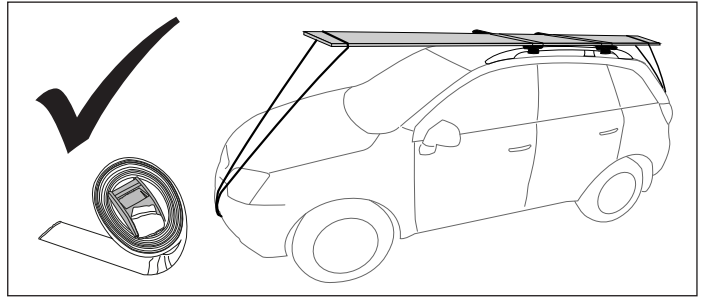
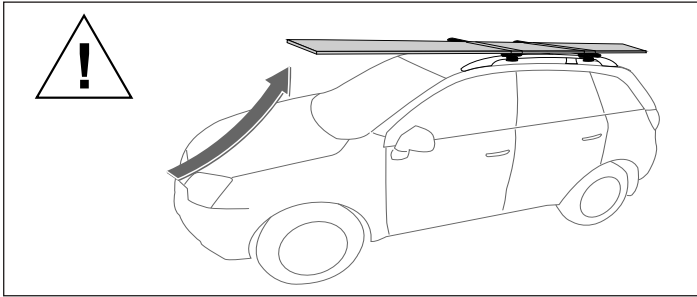
Maximum permissible load is 120kg (264lbs) for three crossbars including the weight of the crossbars, 7.5kg (16lbs) for three bars and 5kg (11lbs) for two bars. When crossbars are to be used in off-road conditions, please build a safety factor of 1.5 into this load limit for off-road use, three crossbars = **80kg (176lbs)** and two crossbars = **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: This is a two person installation. The removal of the hard top requires assistance.** It is your responsibility to ensure instructions are given to the end user or client.

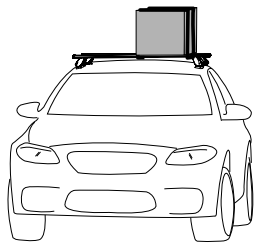




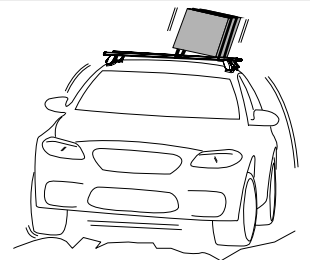
# Jeep Wrangler JK 4dr Hard Top 2007 on **BACKBONE**



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 120kg (264lbs)	=	3 bars 80 kg (176lbs)
2 bars 100kg (220lbs) load rating (Urban road)		2 bars 66kg (145lbs) load rating (Off road)
<b>Load rating not taking into account crossbar weight - 5kg</b>		



**WARNING! Important Load Carrying Instructions**

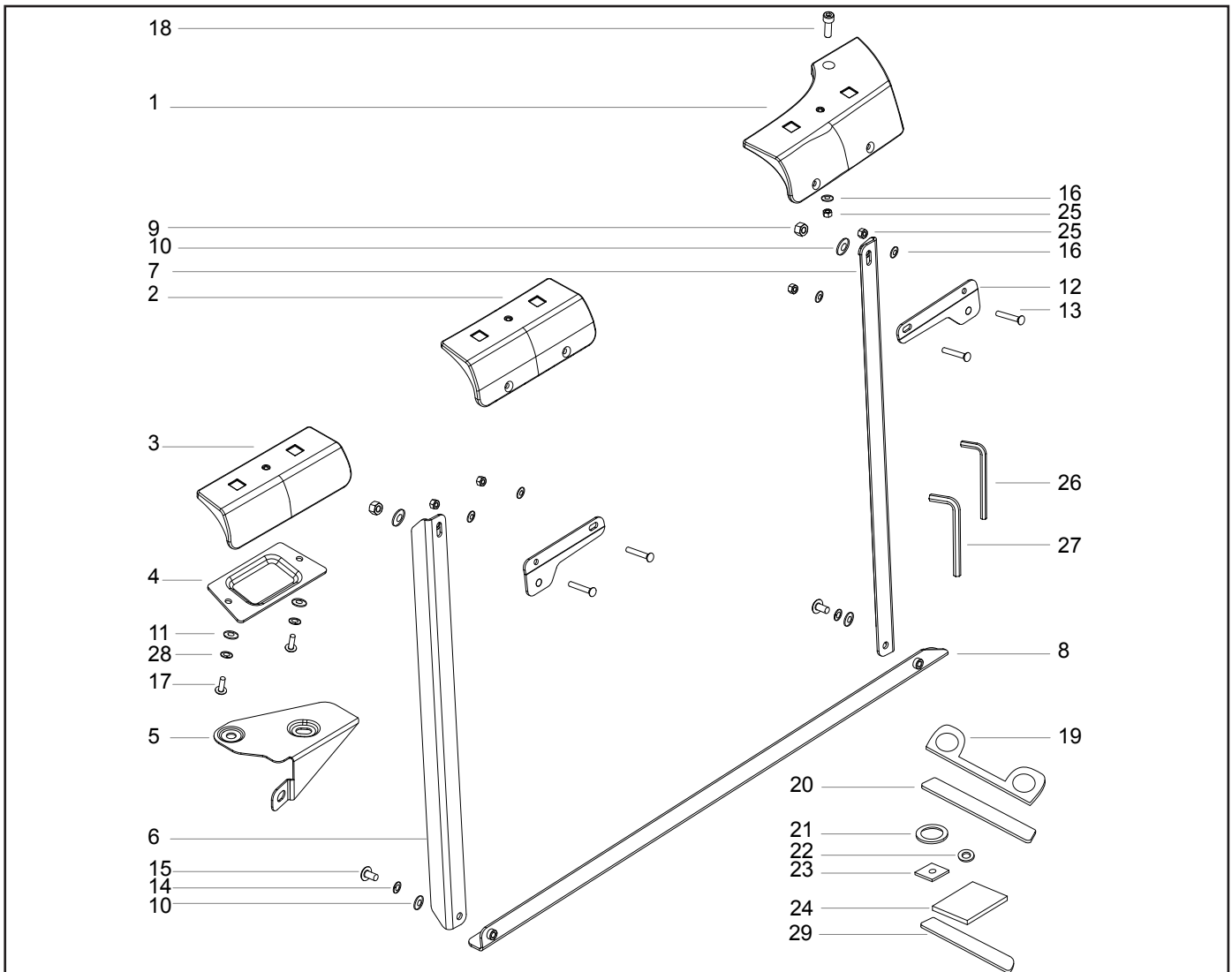
With utility vehicles, the cabin and the canopy move independently. Roof racks and vehicle can be damaged if the item transported is rigidly fixed at points on both the cabin and canopy. Instead, rigidly fix to either the cabin roof racks or the canopy roof racks.

The diagram shows three scenarios for securing a load on a utility vehicle roof rack:

- Scenario 1 (Incorrect):** A load is secured to both the cabin roof rack and the canopy roof rack. This is marked with a large 'X' and the word 'NO'.
- Scenario 2 (Correct):** A load is secured only to the cabin roof rack. This is marked with a checkmark and the word 'YES'.
- Scenario 3 (Correct):** A load is secured only to the canopy roof rack. This is marked with a checkmark and the word 'YES'.



## Parts List



Item	Component Name	Qty R	Qty L	Part No.
1	Rear Bracket	1	1	CA1274
2	Middle Bracket	2		CA1275
3	Front Bracket	2		CA1276
4	Backing Plate	2		CA1277
5	Front Support Plate	1	1	CA1278
6	Internal Support Vertical	2		CA1279
7	Internal Support Vertical	2		CA1280
8	Internal Support Base	1	1	CA1281

Item	Component Name	Qty	Part No.
9	M8 Nyloc Nut Black	4	N043
10	M8 Flat Washer Black	8	CA1068
11	M6x12.5mm Flat Washer Black	4	W003-Blk
12	Bracket Fixture Plate	4	CA1282
13	M6 x 40 Counter Sunk HD Bolt Black	8	B211
14	M8 Spring Washer Black	4	W019-Blk
15	M8x20 Hex Setscrew Black	4	B020-Blk
16	M6 Flat Washer Black	10	W054-Blk
17	M6x20 Button Security Screw	4	B062
18	M6 x 30 Socket HD with O-Ring	2	B210
19	Front Bracket Foam	2	CA1283
20	Middle Bracket Foam	2	CA1284
21	Bracket O Foam L	2	CA1285
22	Bracket O Foam S	4	CA1286
23	Bracket Foam Square	2	CA1287
24	Bracket Support Material	2	CA1288
25	M6 Nyloc Nut Blk	10	N069
26	4mm Allen Key	1	H001
27	5mm Allen Key	1	H002
28	M6 Spring Washer	4	W004
29	End Bracket Rear Foam	2	-
30	Instructions	1	R433

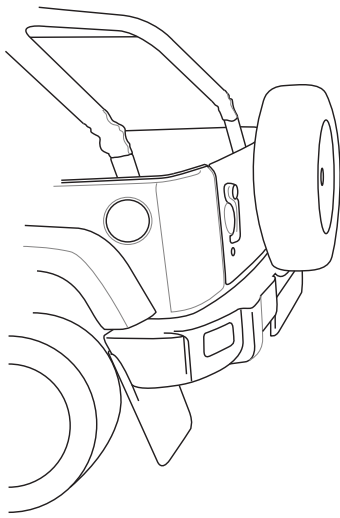
### Tools Required:

- 10mm Spanner
- 13mm Spanner
- Drill
- 3.0mm Drill Bit
- 6.5mm Drill Bit
- 5mm Allen Key (supplied)
- Support Stands
- 6-18mm Step Drill
- Tape Measure
- Marker Pen
- 4mm Allen Key (supplied)

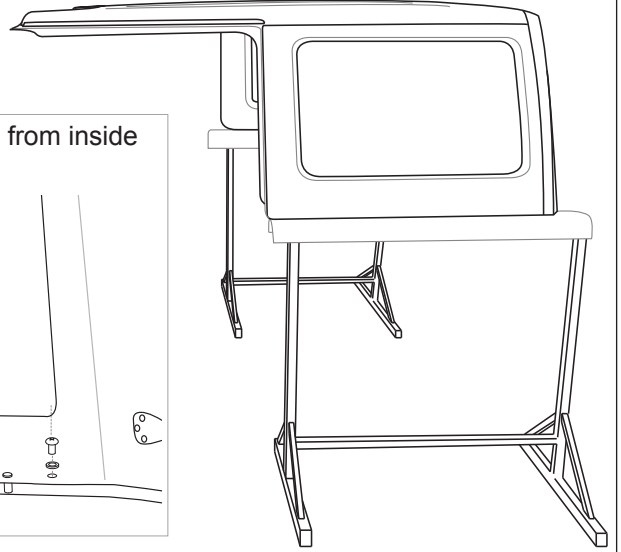
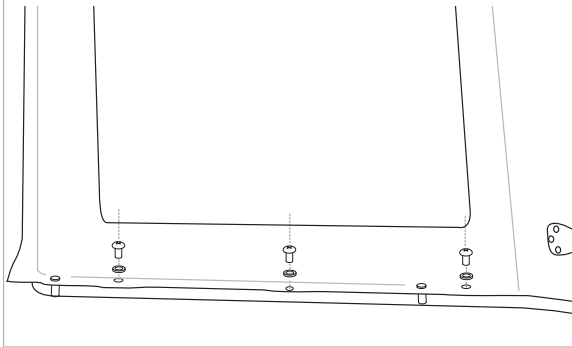


# Jeep Wrangler JK 4dr Hard Top 2007 on **BACKBONE**

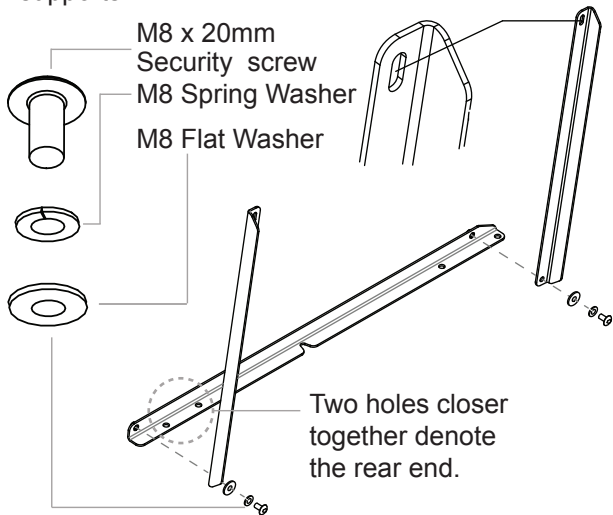
**1** Remove the Hard Top (as per manufacturer's instruction) and place onto a stable, safe working area.



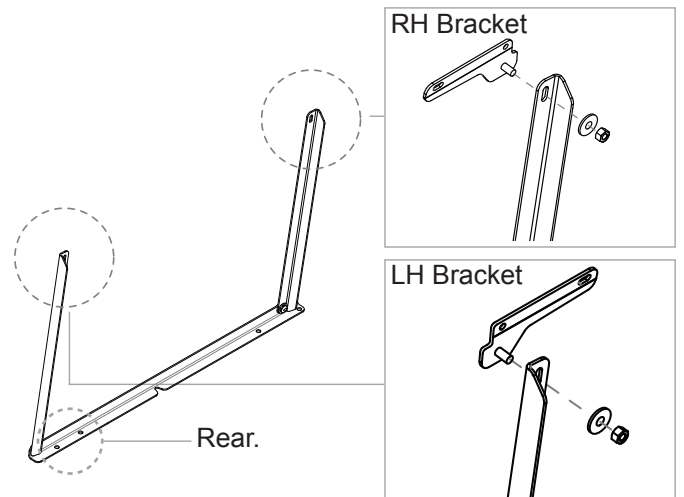
Hardware will have to be removed from inside Hard Top.



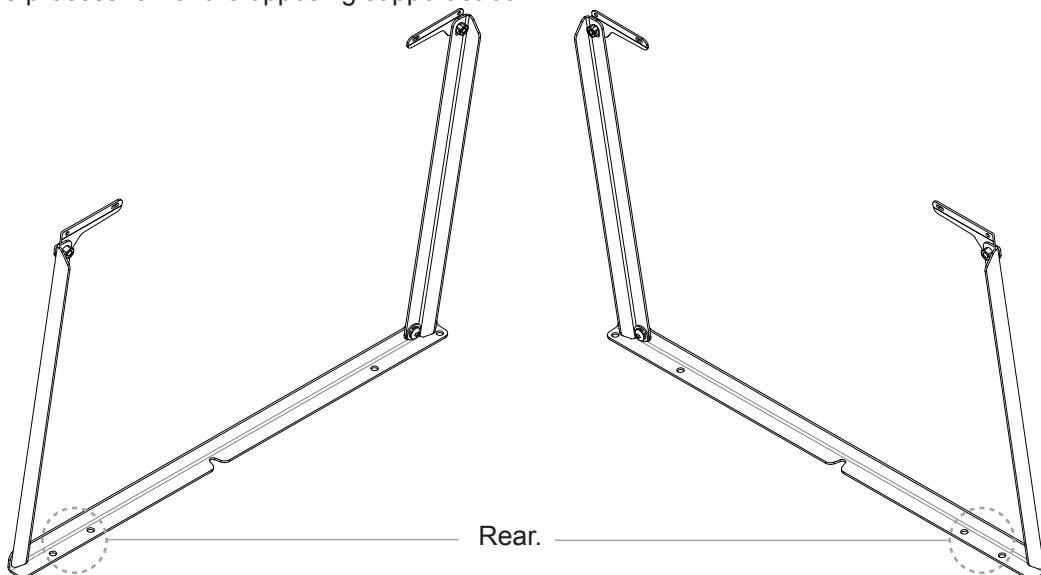
**2a** Assemble the Support Struts as shown. Finger tighten. Check part ID to make left and right side supports.



**2b** Attach item 12 to the arms as shown, using an M8 washer and M8 an Nyloc nut. Finger tighten.

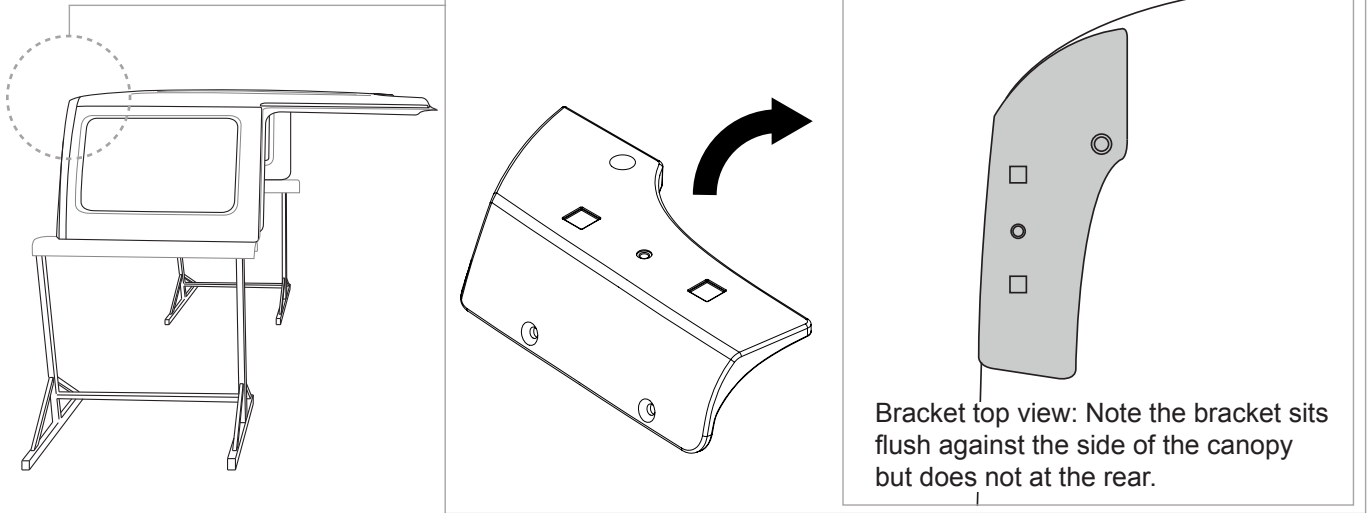


**3** Repeat the process for for the opposing support strut.

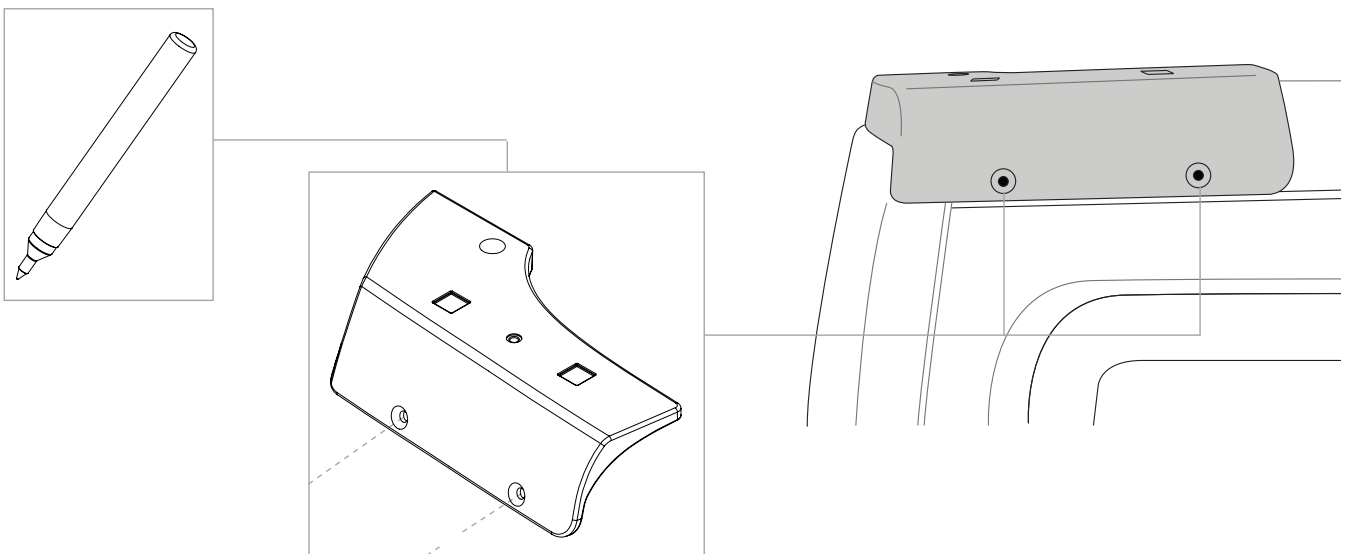




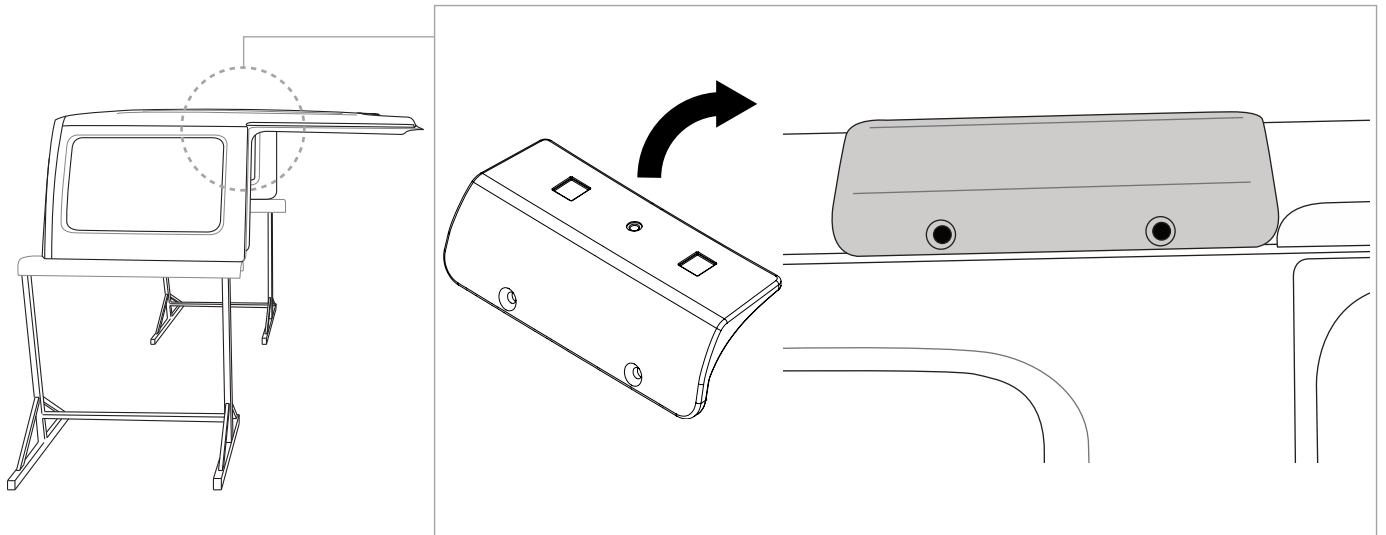
- 4** Align the REAR bracket with the REAR of the Hard Top. Line the bracket flush with the contour of the Hard Top as show.



- 5** With bracket aligned, spot mark the bracket position as shown. It is important to be accurate when marking. Always mark the centre of the hole.



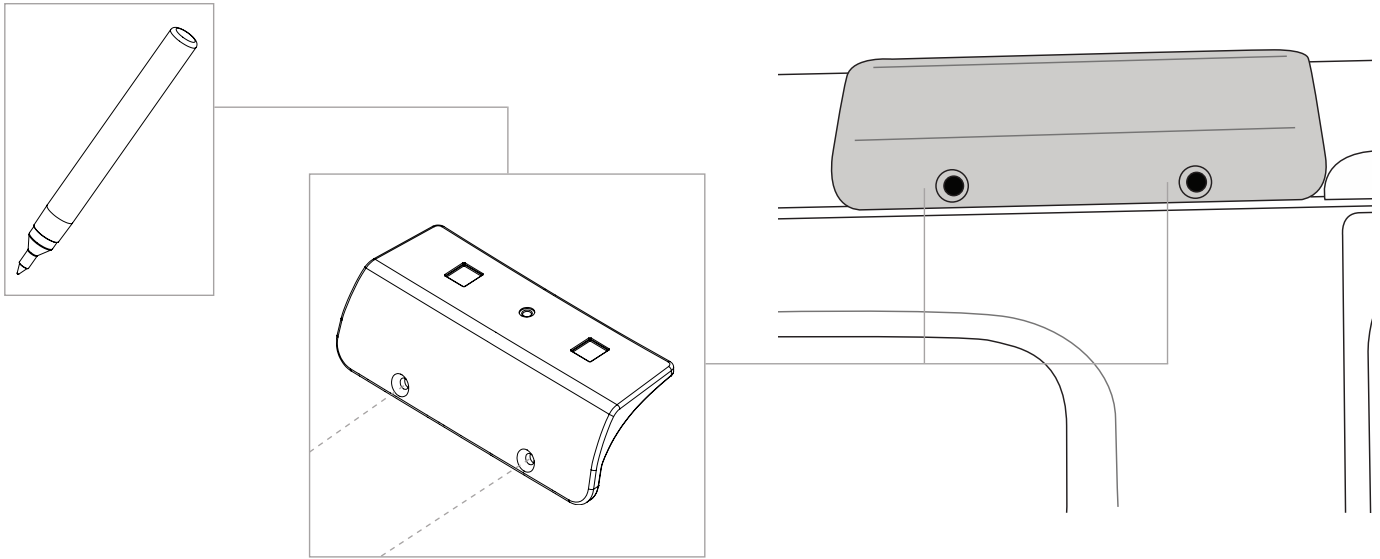
- 6** Align the Centre Bracket **against** the rain gutter on the Hard Top.



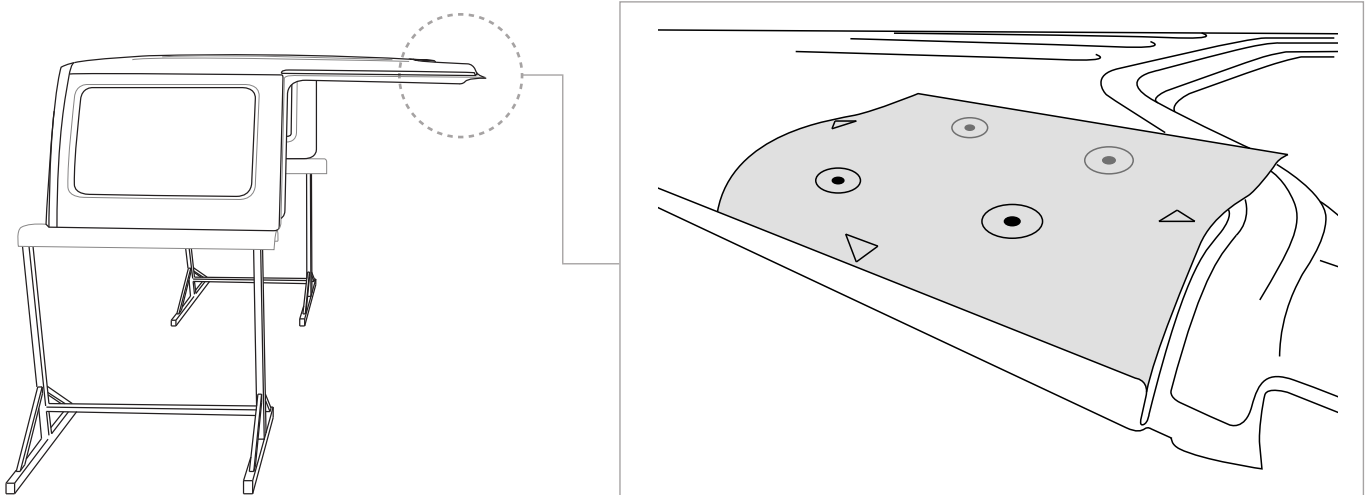


# Jeep Wrangler JK 4dr Hard Top 2007 on **BACKBONE**

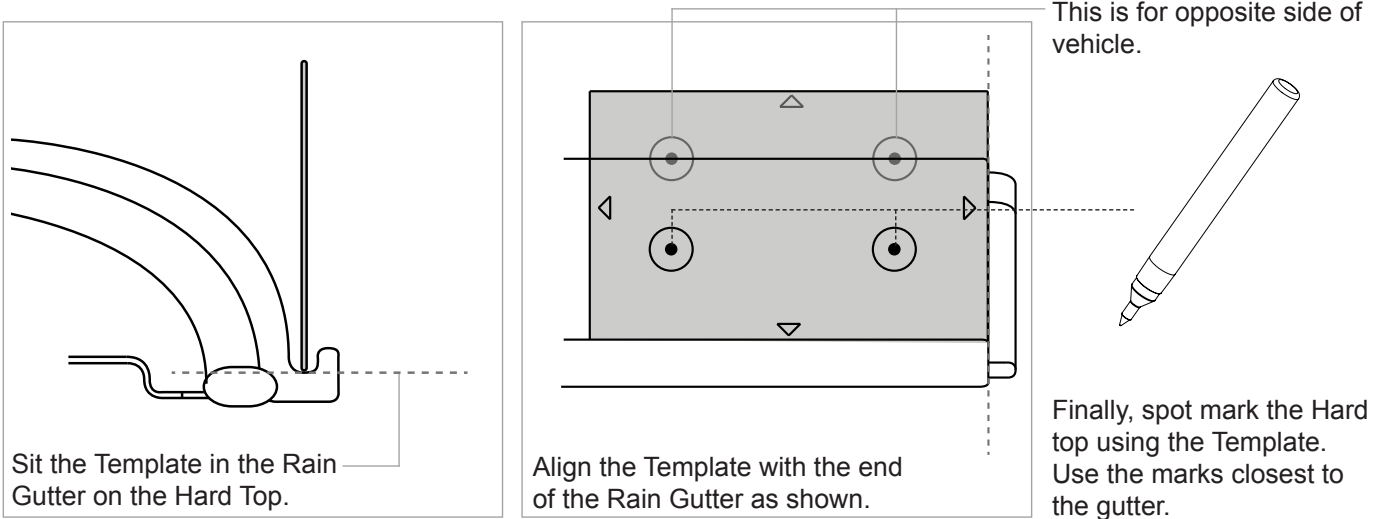
**7** With the Centre Bracket aligned, spot mark the bracket position as shown.



**8a** Place the Front Bracket Template onto the Hard top as shown (template as supplement).



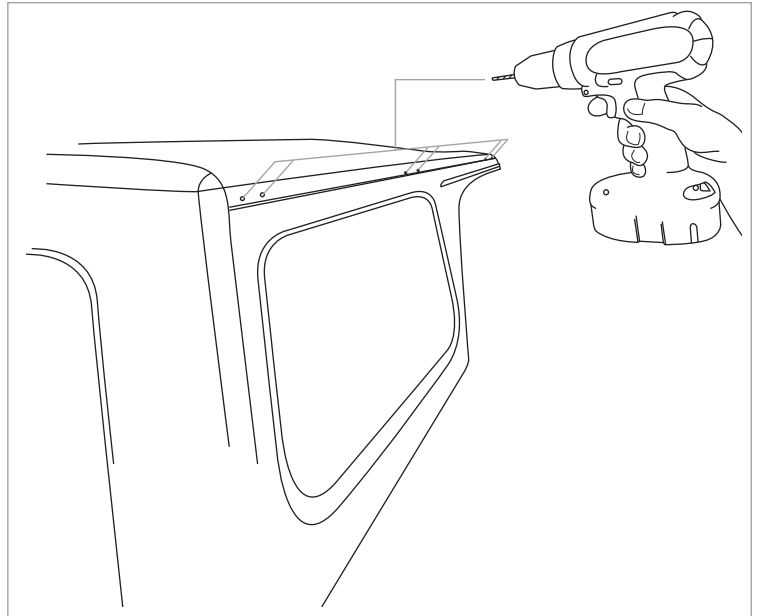
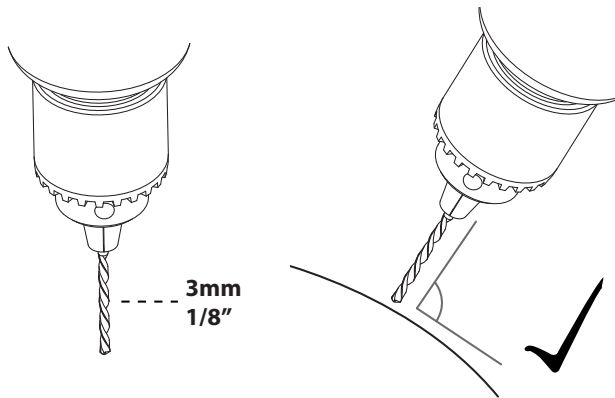
**8b** With the Front Bracket Template placed onto the Hard Top, align as shown and spot mark.



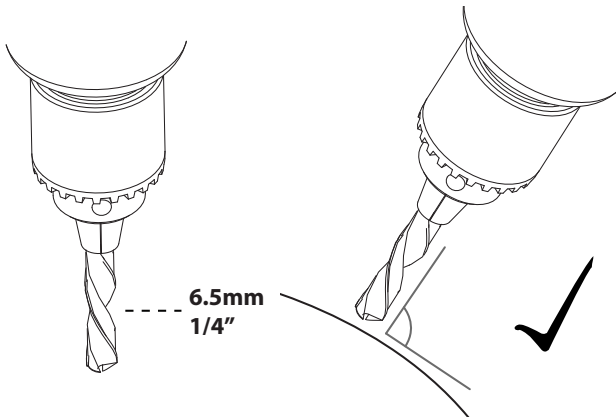


# Jeep Wrangler JK 4dr Hard Top 2007 on **BACKBONE**

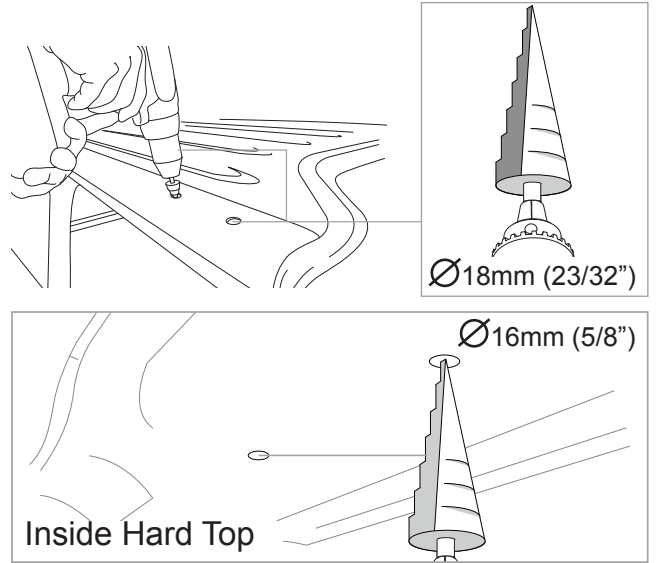
**9** Using a 3mm (1/8") drill bit, spot drill **ALL spot marks** previously layed out. Angle drill when completing.



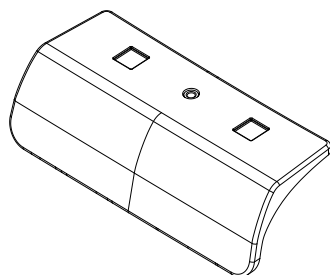
**10** Using a 6.5mm (1/4") drill bit, drill out the **REAR and MIDDLE** spot drilled sections on the Hard Top.



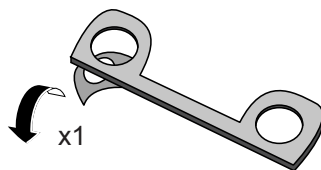
**11 FRONT HOLES ONLY:** Using a 6-18mm step drill bit, open out the front spot holes as shown.



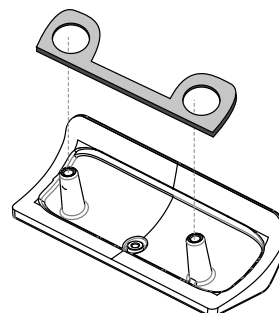
**12** With relation to the Front Bracket, take corresponding foam pads and remove the protective strip as shown. Fit to bracket.



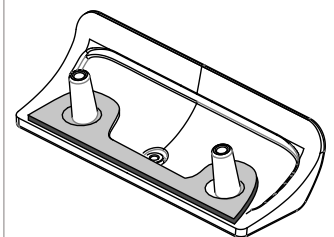
a. Remove adhesive protective strip.



b. Fit adhesive to bracket.



c. Ready for installation.



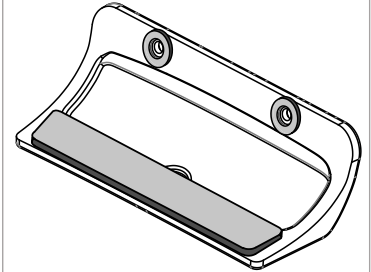
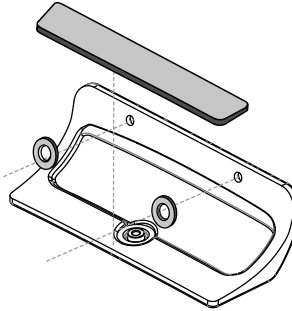
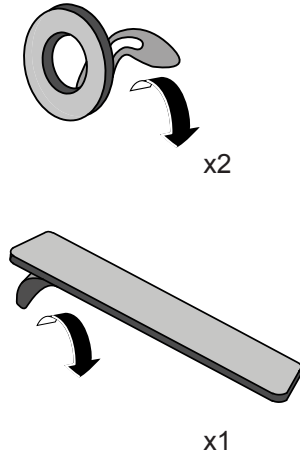
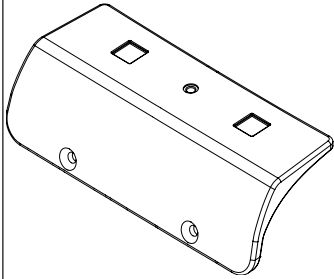


**13** With relation to the Centre Bracket, take corresponding foam pads and remove the protective strip as shown. Fit to bracket.

a. Remove adhesive protective strip from corresponding parts.

b. Fit adhesive to bracket.

c. Ready for installation.

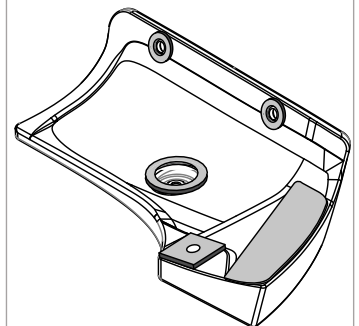
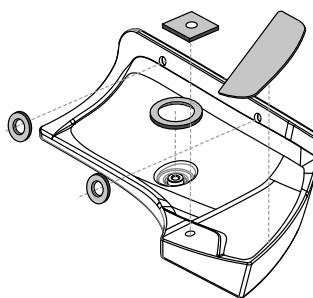
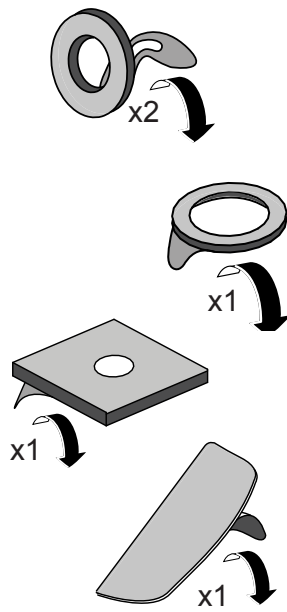
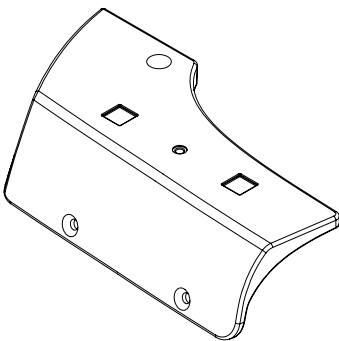


**14** With relation to the Rear Bracket, take corresponding foam pads and remove the protective strip as shown. Fit to bracket.

a. Remove adhesive protective strip from corresponding parts.

b. Fit adhesive to bracket.

c. Ready for installation.

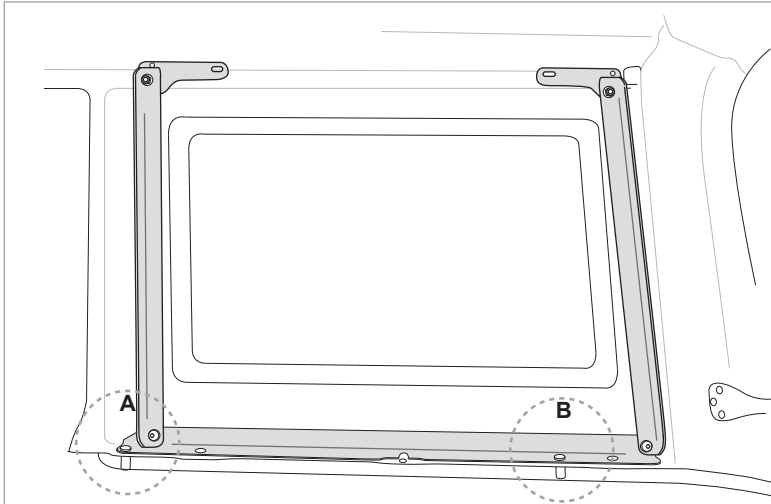




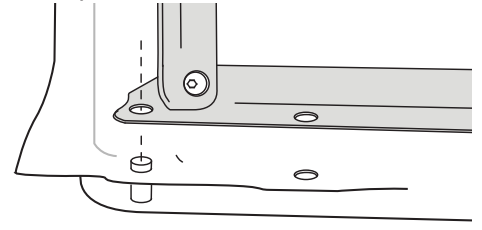
# Jeep Wrangler JK 4dr Hard Top 2007 on **BACKBONE**

**Note: Repeat the previous steps 4 to 14, for the opposing side of the Hard Top**

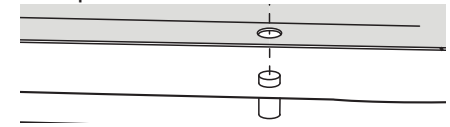
**15** With assistance to hold the Support Strut in place, set the assembly on the inside of the Hard Top as shown.



A. The Support Strut will slot onto the Hard Top studs as shown.

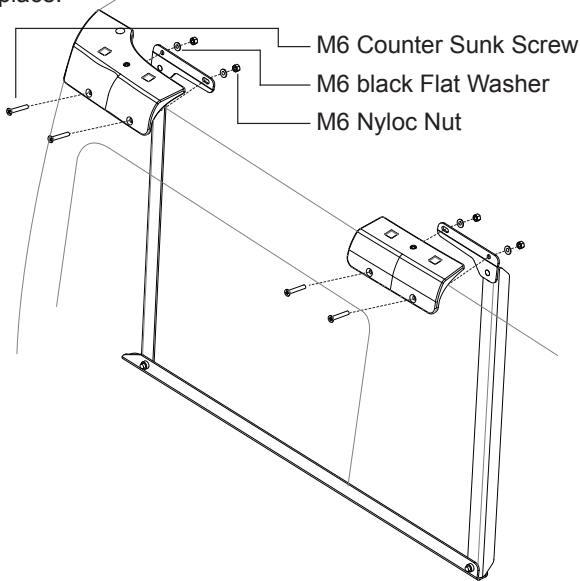


B. The Support Strut will slot onto the Hard Top studs as shown.

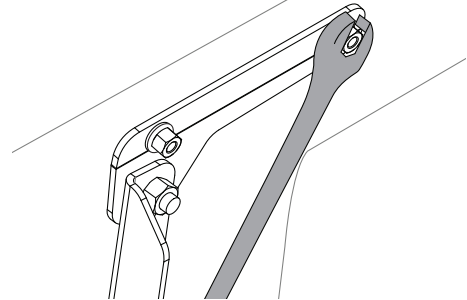


**16** With assistance to hold the Support Strut in place, move to the outside of the Hard Top. Place the REAR Bracket in place. Insert M6 counter sunk screws, fastening from the inside with M6 black flat washers and M6 Nyloc nuts. Hold the nyloc nuts in place with a 10mm spanner. Tighten from the outside with a 4mm allen key. Repeat this process for the CENTRE Bracket.

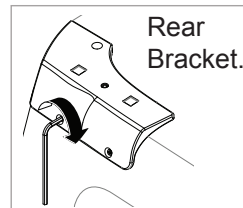
1. Assemble as shown. Finger tighten to fix in place.



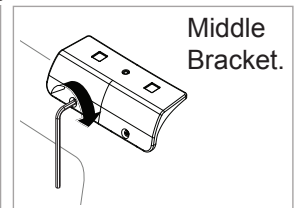
2. Hold Nyloc Nut with a spanner, allowing the bracket to be tightened from the outside.



3. Fix with a 4mm Allen Key.



Rear Bracket.

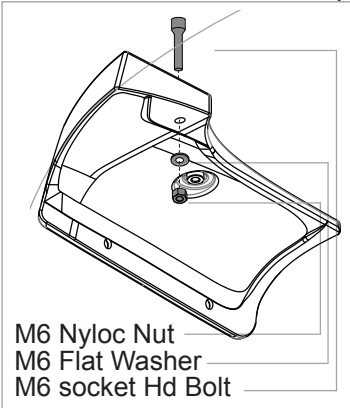
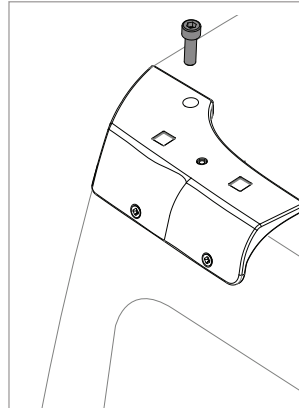
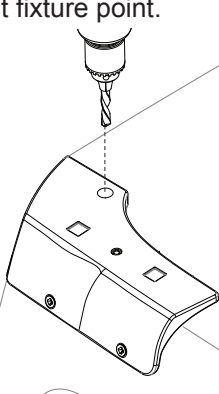


Middle Bracket.

**17** With Rear Bracket now secure, drill out the top fixture point with a 6.5mm (1/4") bit. Use an M6 socket HD bolt with O'ring, an M6 flat washer and an M6 nyloc nut to fix the bracket.

View from inside Hard Top

Drill out fixture point.



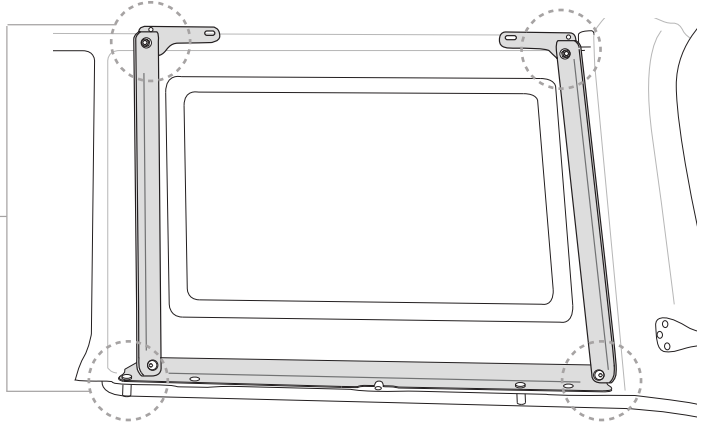
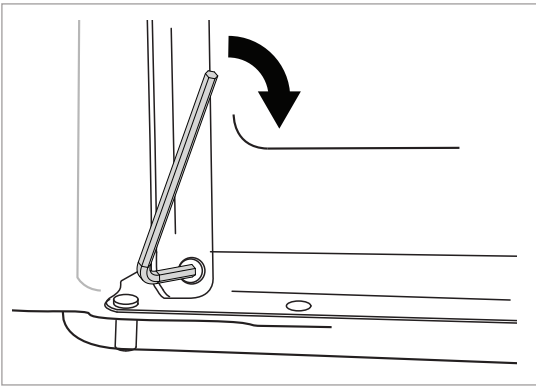
M6 Nyloc Nut  
M6 Flat Washer  
M6 socket Hd Bolt





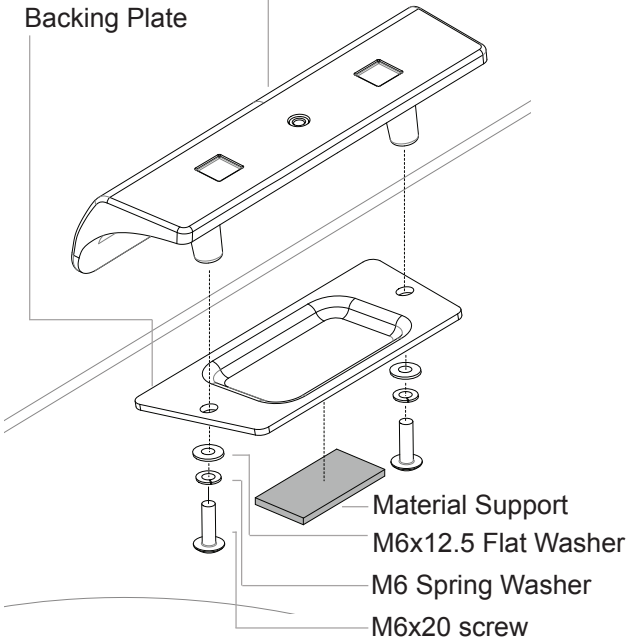
# Jeep Wrangler JK 4dr Hard Top 2007 on **BACKBONE**

**18** Tighten supports with a 5mm allen key. Top of supports will require a 13mm spanner.

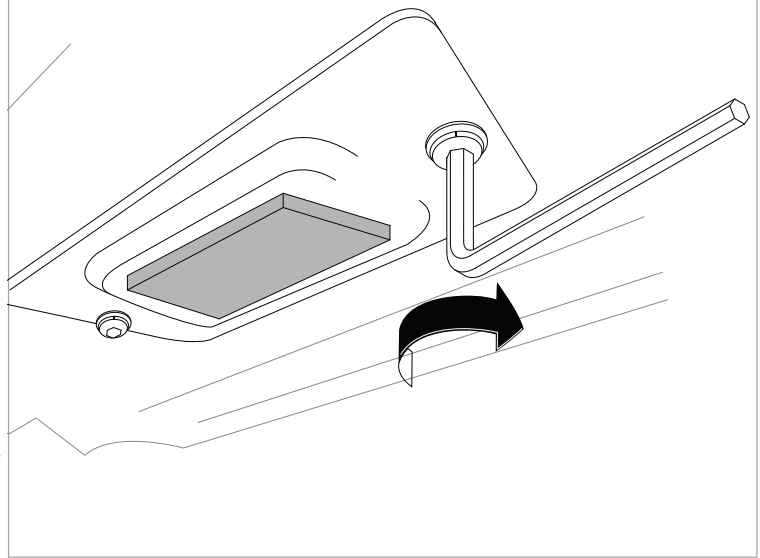


**19** Place the FRONT Bracket onto the Hard Top. Using the black M6x20 dome head setscrews, M6 spring washers and M6 flat washers, attach the Backing plate and material support to the Front Bracket from inside the Hard Top as shown. Tighten with a 4mm Allen Key.

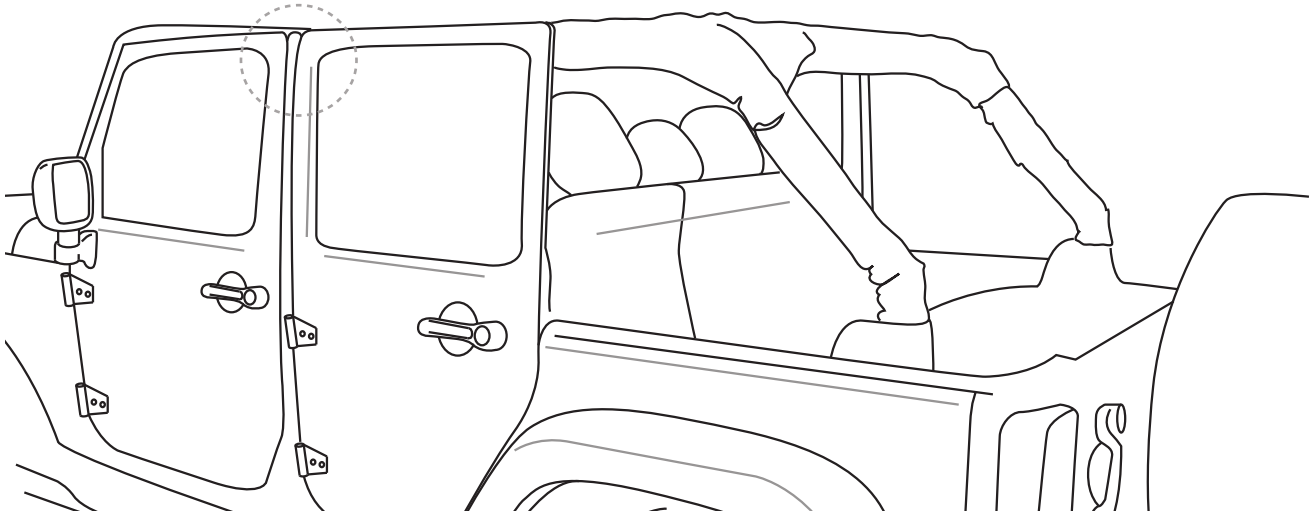
Front Bracket  
Backing Plate



Tighten Backing Plate to the Front Bracket from the inside of the Hard Top. Max Torque 4-5Nm/ 3-4lbs/ft.



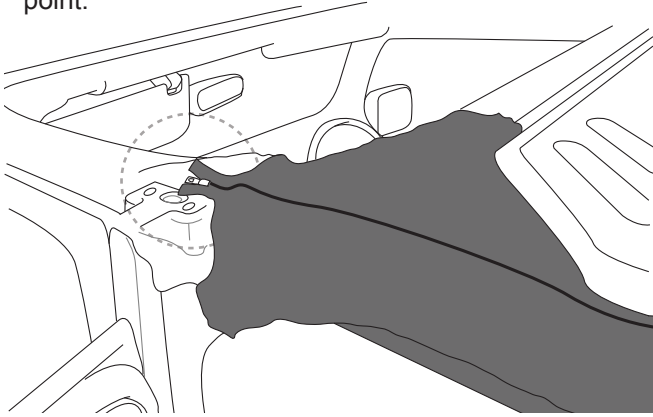
**20** Move to the centre of the vehicle as shown.



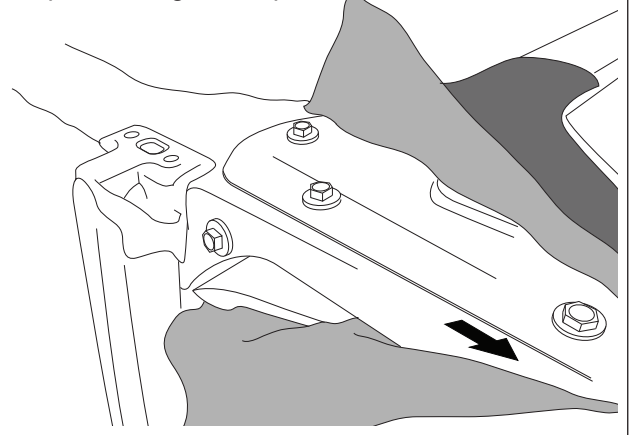


# Jeep Wrangler JK 4dr Hard Top 2007 on **BACKBONE**

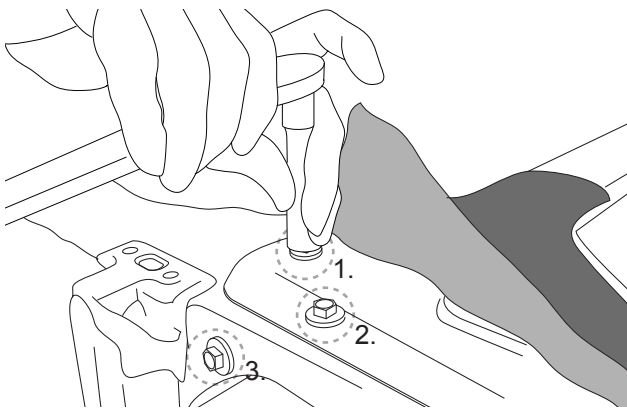
**21** Locate zipper concealing the Jeep's bracket fixture point.



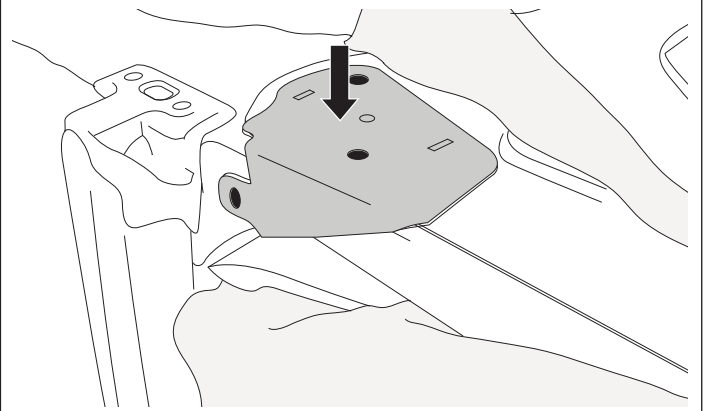
**22** Unzip, revealing fixture point.



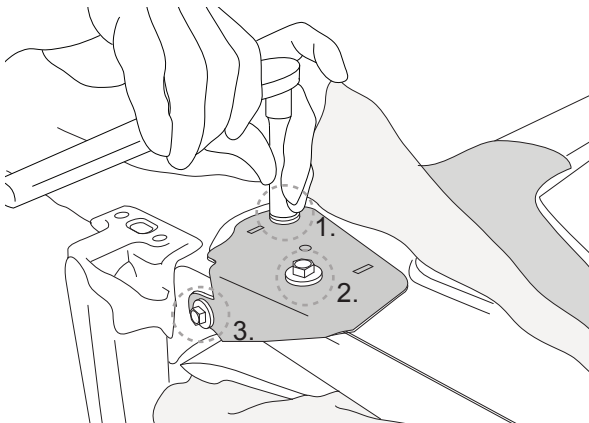
**23** Remove hardware with a 13mm socket wrench.



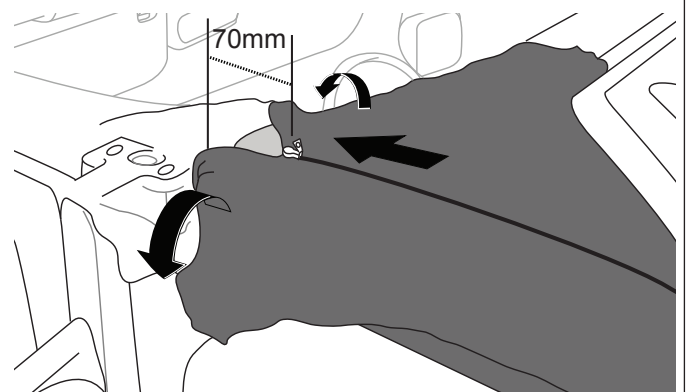
**24** Place Jeep Bracket onto vehicle as shown.



**25** Replace hardware with a 13mm (1/2") socket wrench.

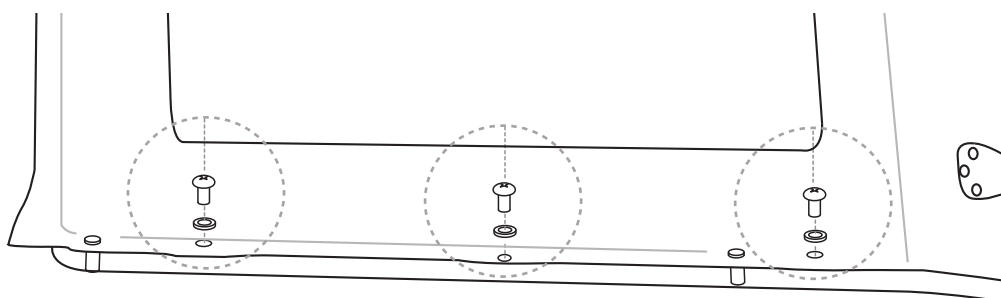


**26** Re-zip protective cover to 70mm from the top. Tuck any excess material under and out of the way.



**Note:** Repeat previous steps 15-26 for the opposing side of the Hard Top

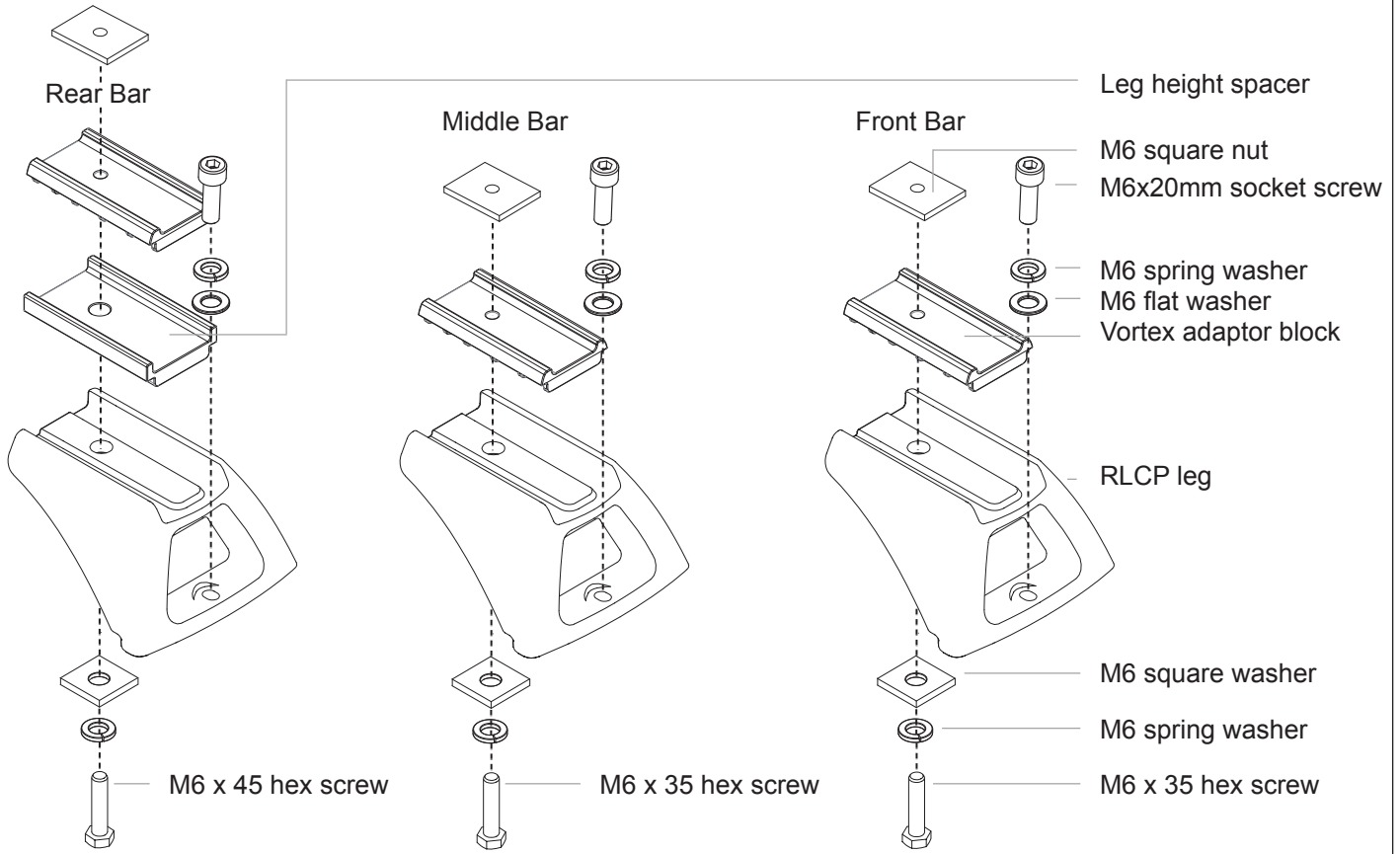
**27** Place the Hard Top back onto the Jeep (refer to manufacturers instructions). Replace the hardware removed in step 1 on both sides of the inner Hard Top.



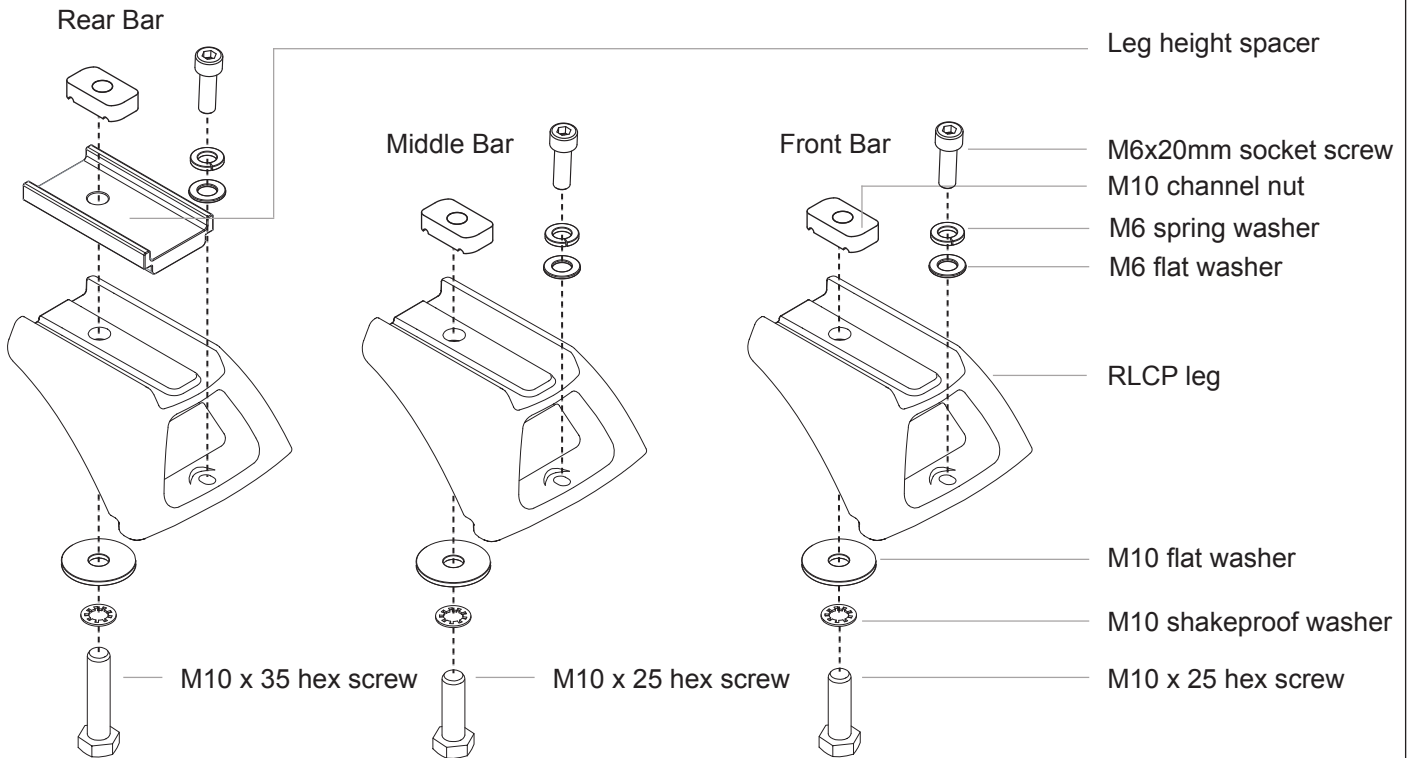


**Note: Crossbars must be purchased separately. The following steps show crossbar assembly.**

**28** Set up for 3 Vortex Crossbars as follows.

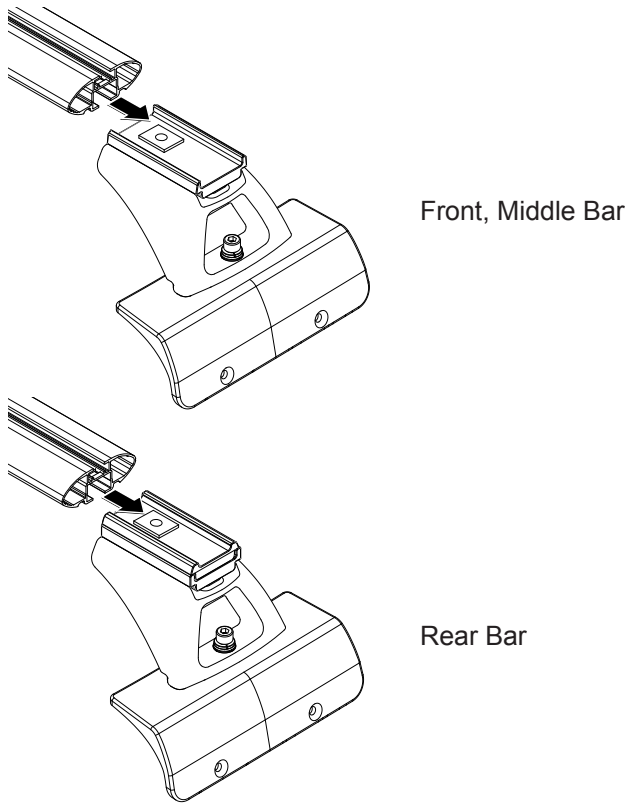


**29** Set up Heavy Duty Crossbars as follows.

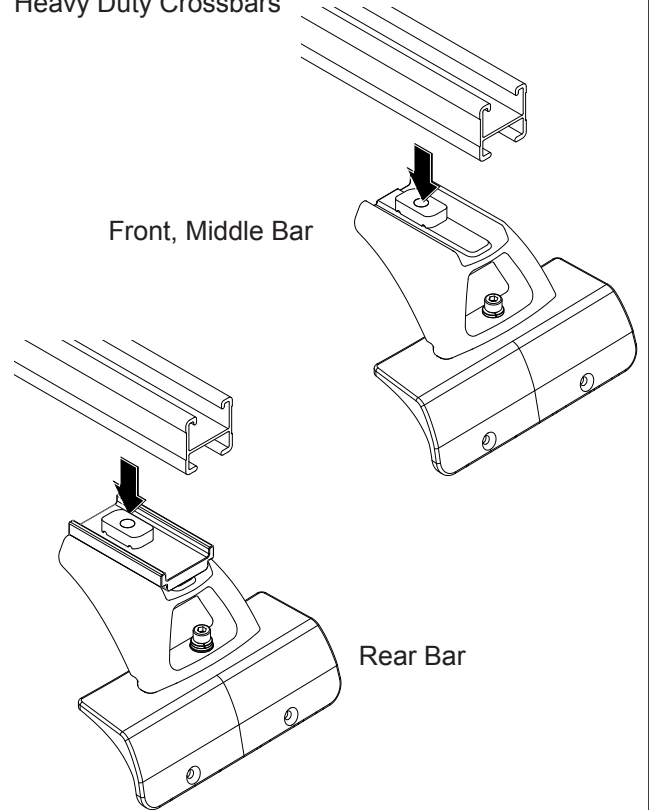




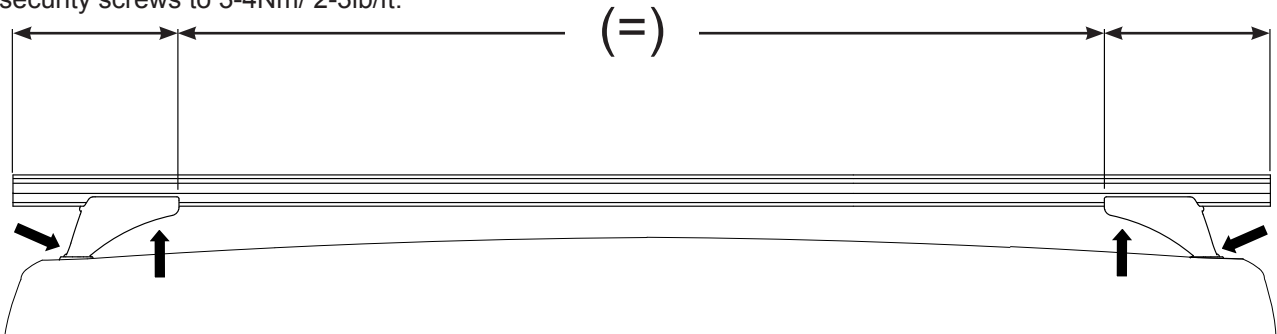
### 30 Attach Vortex Crossbars



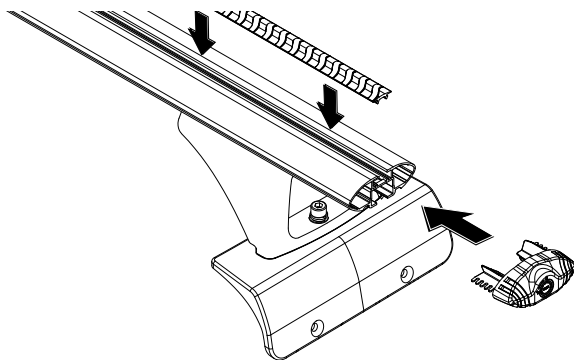
### Heavy Duty Crossbars



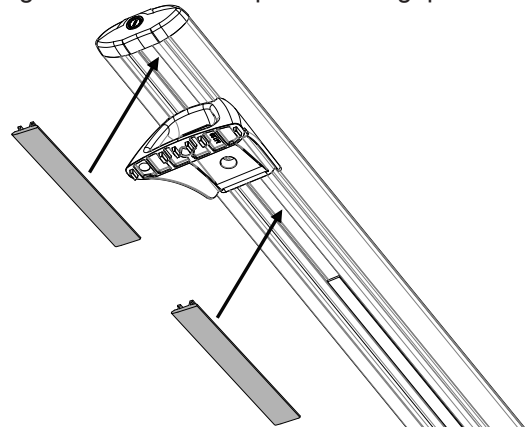
### 31 Adjust crossbar overhang to be equal on both sides. Tighten M6 crossbar bolts to 3-4Nm/ 2-3lb/ft. Tighten M6 security screws to 3-4Nm/ 2-3lb/ft.



### 32 Insert vortex rubber and end caps into all crossbars.



### 33 Measure the under bar slot length each side of the leg. Cut under bar strips to fill the gaps.



**Note: RE-CHECK ALL FASTENERS ARE SECURE.**