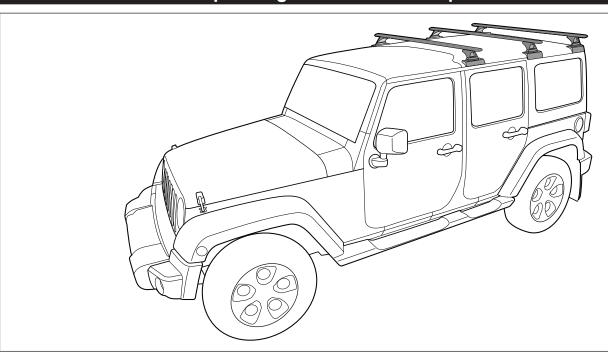
# RHINO-RACK BACKBONE

#### Jeep Wrangler JK 4dr Hard Top 2007 0n



#### Important Information

Max Load: 120kg (264lbs) - Three Crossbars. Max: 100kg (220lbs) - Two Crossbars. Static Load - Three crossbars: 360kg (800lbs), Two crossbars 240kg (530lbs). 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.

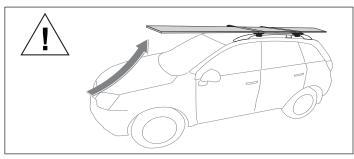
Rhino-Rack 3 Pike Street, Rydalmere, NSW 2116, Australia. (Ph) (02) 9638 4744 (Fax) (02) 9638 4822

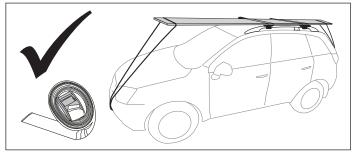
Document No: R433 Prepared By: Kayle Everett Authorised By: Chris Murty

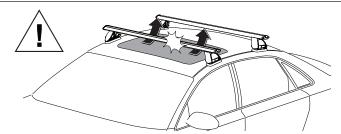
Fit Time: 2 Hours Issue No: 10 Issue Date: 17/06/2016

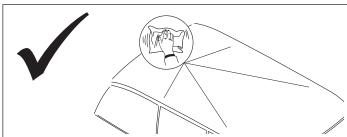
These instructions remain the property of Rhino-Rack Australia Pty. Ltd. and may not be used or changed for any other purpose than intended.

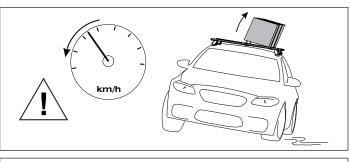


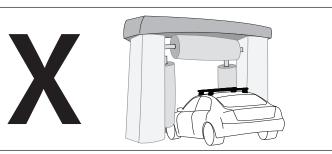








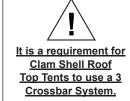


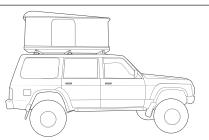




Ensure Ladder is well supported on the ground to help support tent. Take extreme caution when climbing heights above 1.2m/4ft.







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 120kg
(264lbs)
2 bars 100kg
(220lbs) load
rating (Urban road)

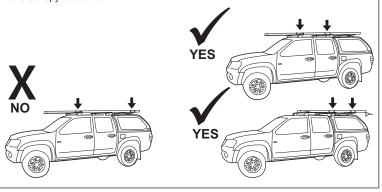
3 bars 80 kg (176lbs) 2 bars 66kg (145lbs) load rating (Off road)

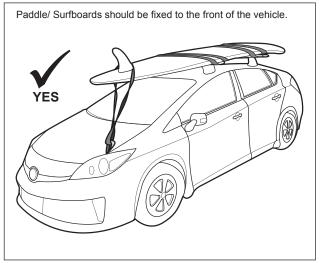
Load rating not taking into account crossbar weight - 5kg



#### **WARNING!** Important Load Carrying Instructions

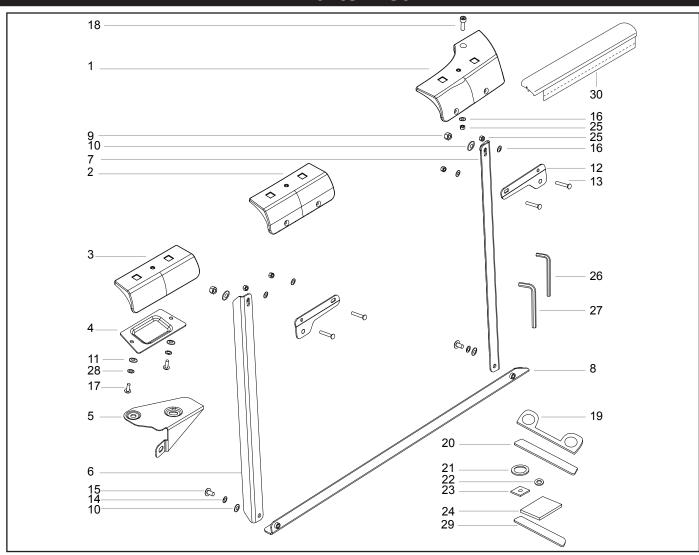
With utility vehicles, the cabin and the canopy move independently. Roofracks and vehicle can be damaged if the item transported is rigidly fixed at points on both the cabin and canopy. Instead, rigidly fix to either the cabin roofracks or the canopy roofracks.







# **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

Tools Require	. d .
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-10mm Spanner -Support Stands

- 13mm Spanner -6-18mm Step Drill

-Drill -Tape Measure

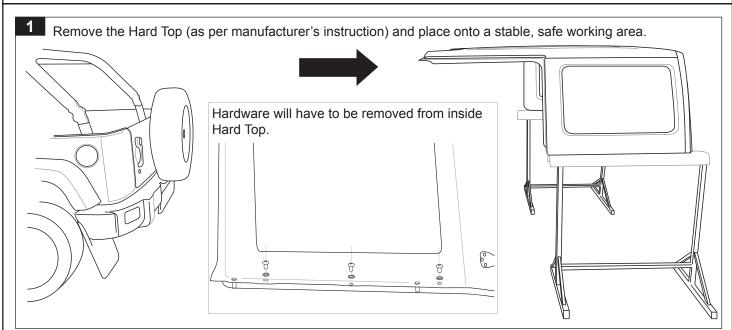
-3.0mm Drill Bit -Marker Pen

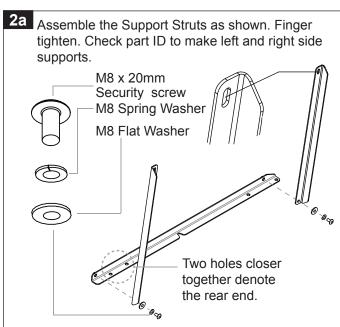
-6.5mm Drill Bit -4mm Allen Key (supplied)

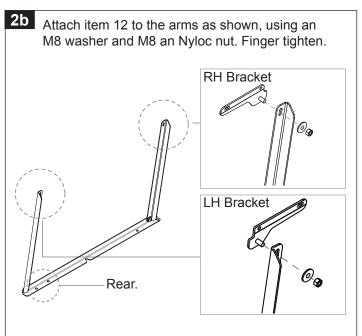
-5mm Allen Key (supplied)

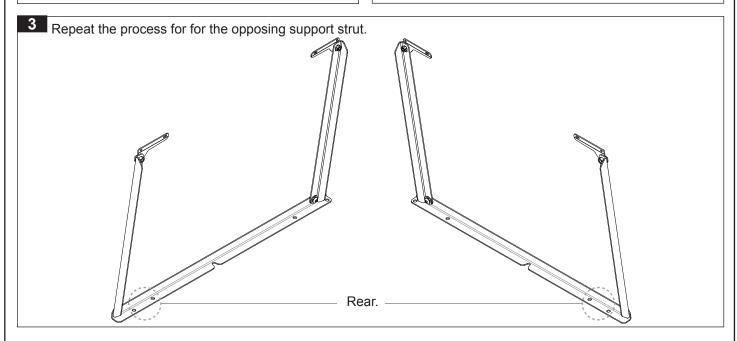
	Component Name	Qty	Part No.
9	M8 Nyloc Nut Black	4	N043
10	M8 Flat Washer Black	8	CA1068
11	M6x12.5mm Flat Washer Black	4	W003-Blk
12	Bracket Fixture Plate	4	CA1282
13	M6 x 30 Counter Sunk HD Bolt Black	8	B211
14	M8 Spring Washer Black	4	W019-Blk
15	M8x20 Hex Setscrew Black	4	B020-Blk
16	M6 Flat Washer 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	Protective Foam	2	RJKPF
31	Instructions	1	R433



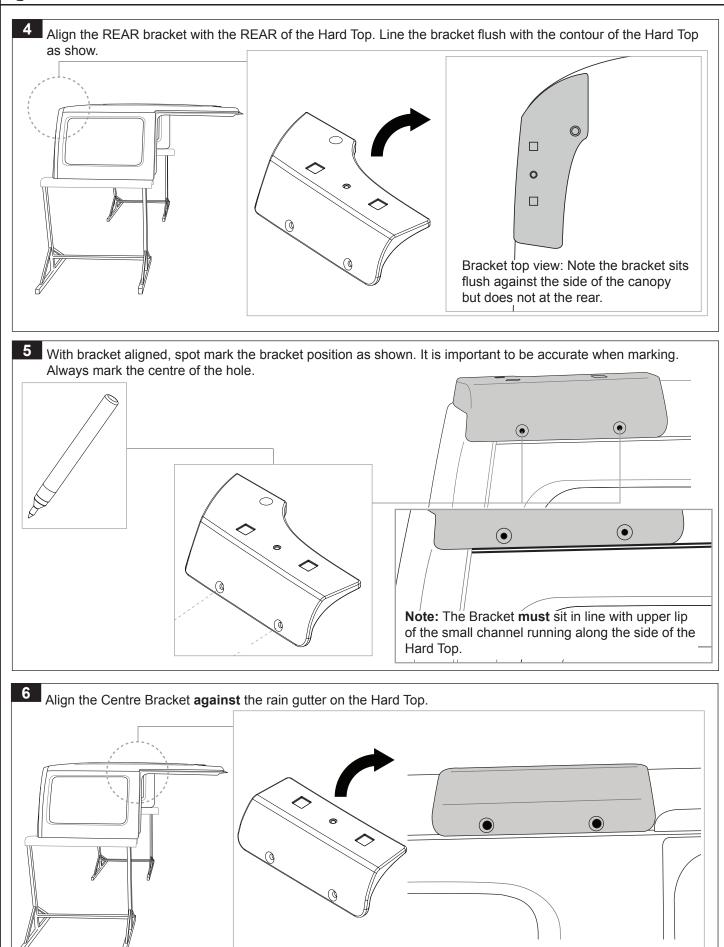




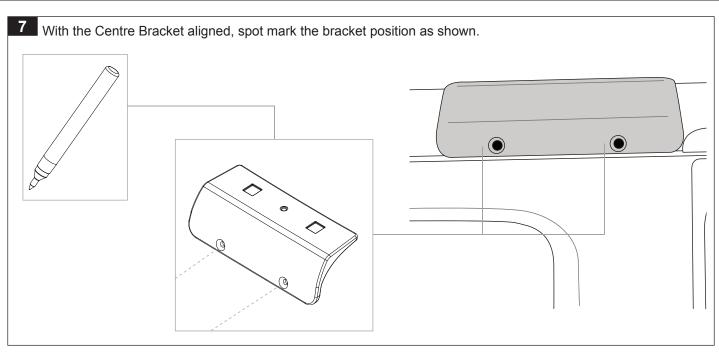


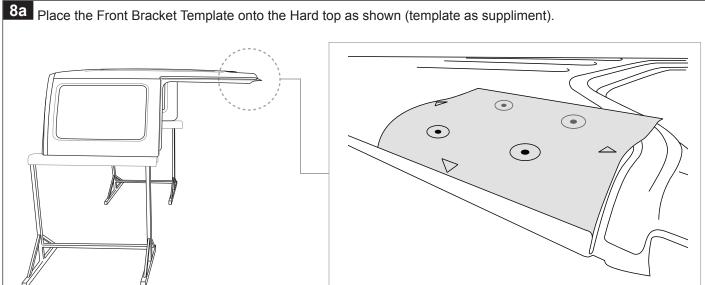


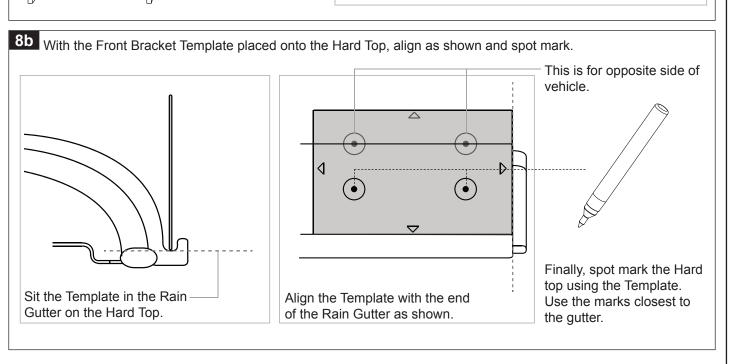






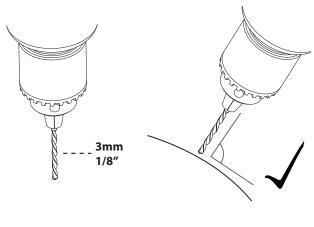


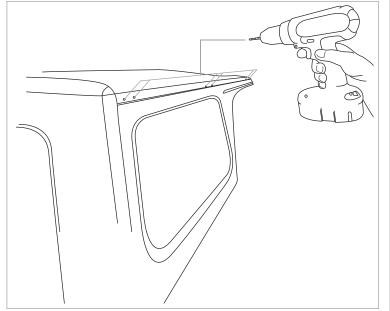




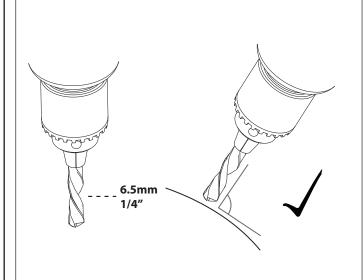


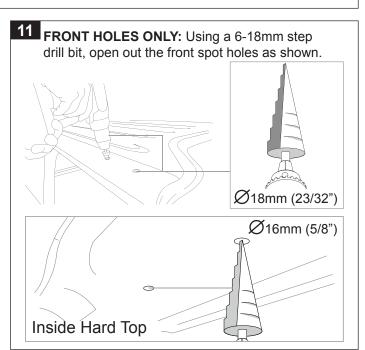
Using a 3mm (1/8") drill bit, spot drill **ALL spot marks** previously layed out. Angle drill when
completing.



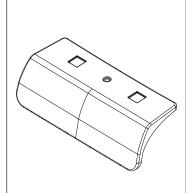


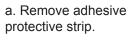
Using a 6.5mm (1/4") drill bit, drill out **the REAR** and MIDDLE spot drilled sections on the Hard Top.

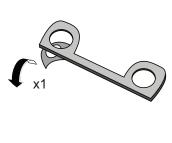




With relation to the Front Bracket, take corresponding foam pads and remove the protective strip as shown. Fit to bracket.



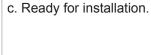






b. Fit adhesive to

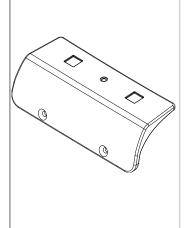
bracket.



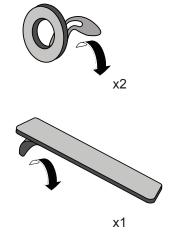




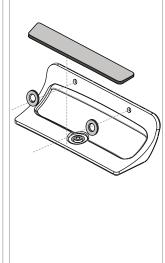
With relation to the Centre Bracket, take corresponding foam pads and remove the protective strip as shown. Fit to bracket.



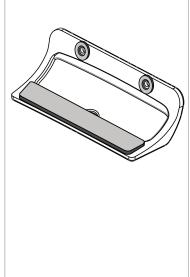
a. Remove adhesive protective strip from corresponding parts.



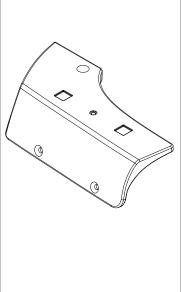
b. Fit adhesive to bracket.



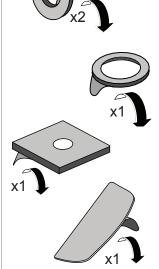
c. Ready for installation.



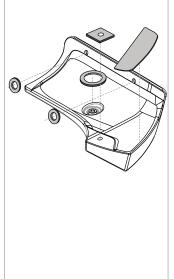
With relation to the Rear Bracket, take corresponding foam pads and remove the protective strip as shown. Fit to bracket.



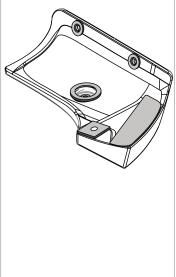
a. Remove adhesive protective strip from corresponding parts.



b. Fit adhesive to bracket.



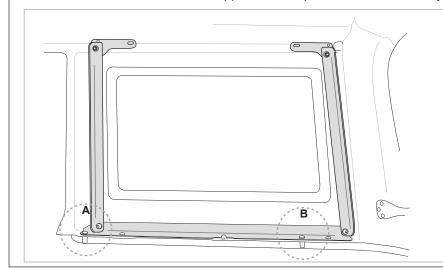
c. Ready for installation.

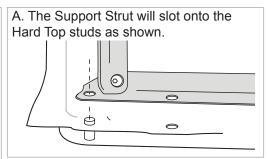




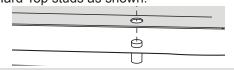
#### Note: Repeat the previous steps 4 to 14, for the opposing side of the Hard Top

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

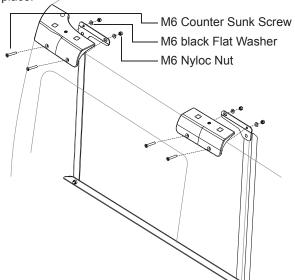


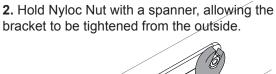


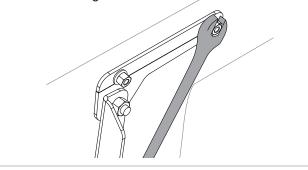
B. The Support Strut will slot onto the Hard Top studs as shown.



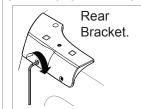
- With assistance to hold the Support Strut in place, move to the outside of the Hard Top. Place the REAR Bracket in place. Insert M6 counter sunk screws, fastening from the inside with M6 black flat washers and M6 Nyloc nuts. Hold the nyloc nuts in place with a 10mm spanner. Tighten from the outside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

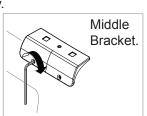




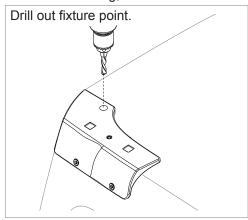


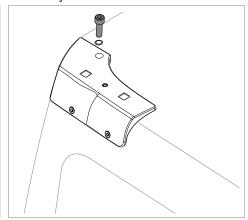
3. Fix with a 4mm Allen Key.

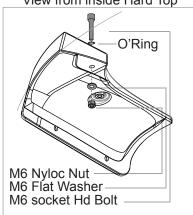




With Rear Bracket now secure, drill out the top fixture point with a 6.5mm (1/4") bit. Use an M6 socket HD bolt with O'ring, an M6 flat washer and an M6 nyloc nut to fix the bracket. View from inside Hard Top



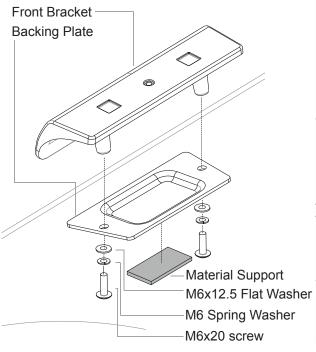


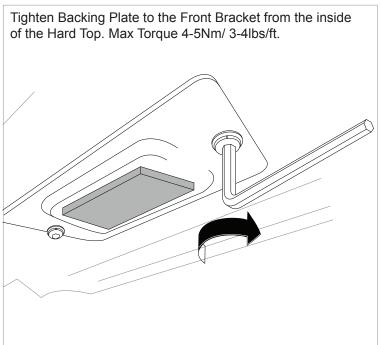


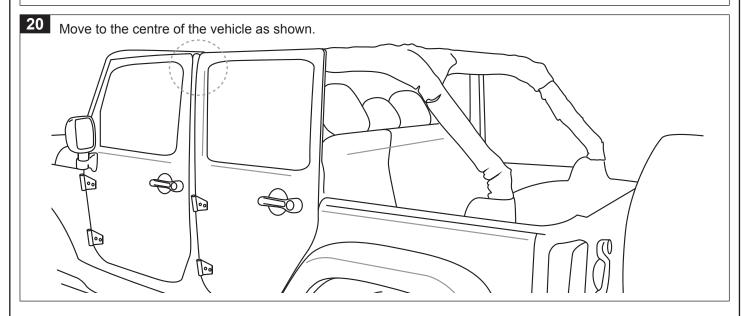


Tighten supports with a 5mm allen key. Top of supports will require a 13mm spanner.

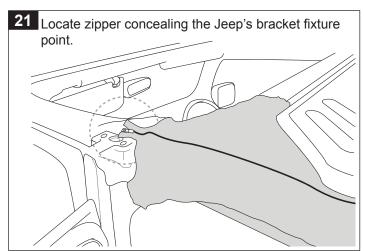
Place the FRONT Bracket onto the Hard Top. Using the black M6x20 dome head setscrews, M6 spring washers and M6 flat washers, attach the Backing plate and material support to the Front Bracket from inside the Hard Top as shown. Tighten with a 4mm Allen Key.

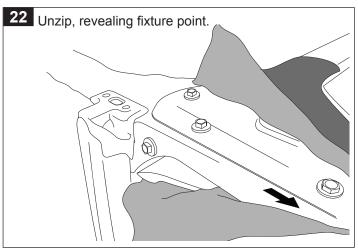


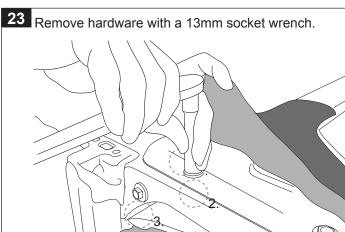


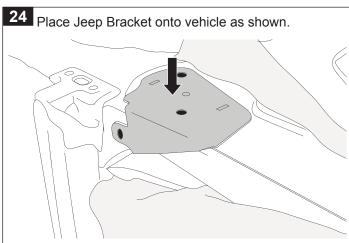


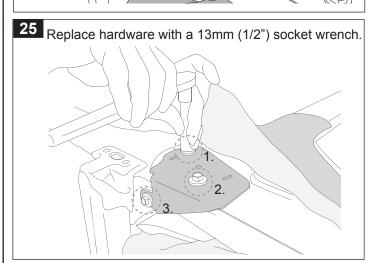


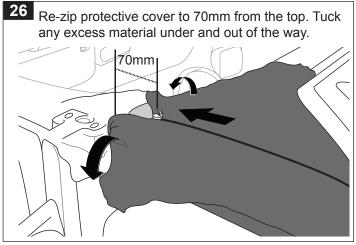






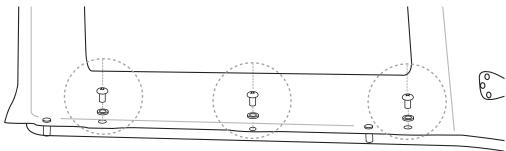




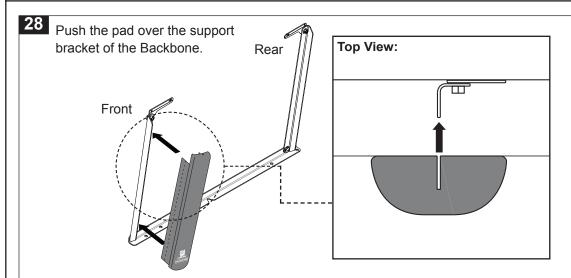


#### Note: Repeat previous steps 15-26 for the opposing side of the Hard Top

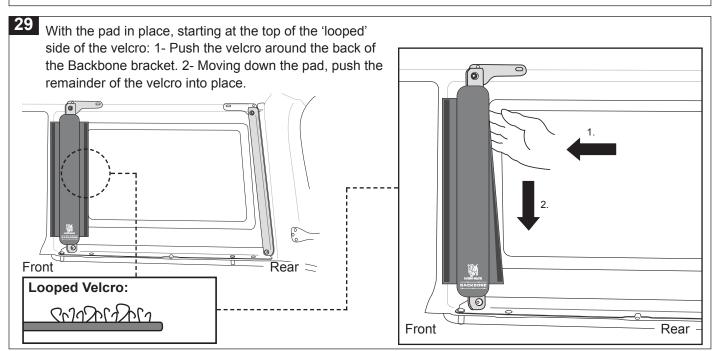
Place the Hard Top back onto the Jeep (refer to manufacturers instructions). Replace the hardware removed in step 1 on both sides of the inner Hard Top.

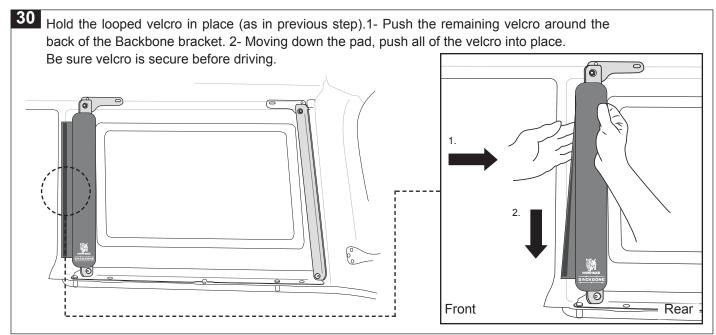






**Note:** Pads are to be fitted on the front supports of the Backbone only.

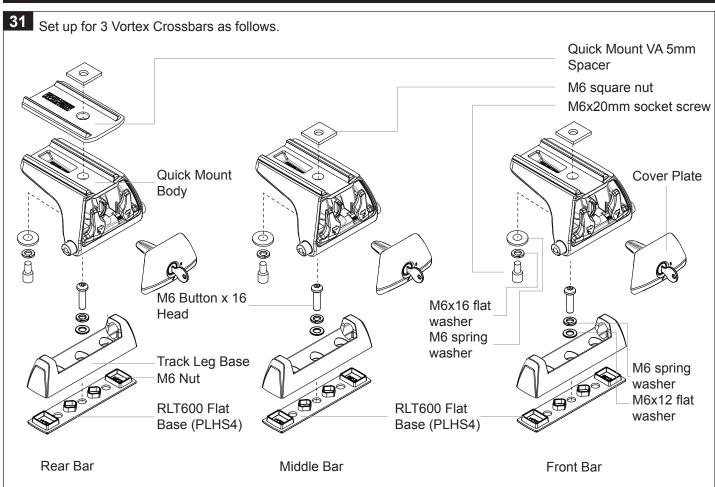


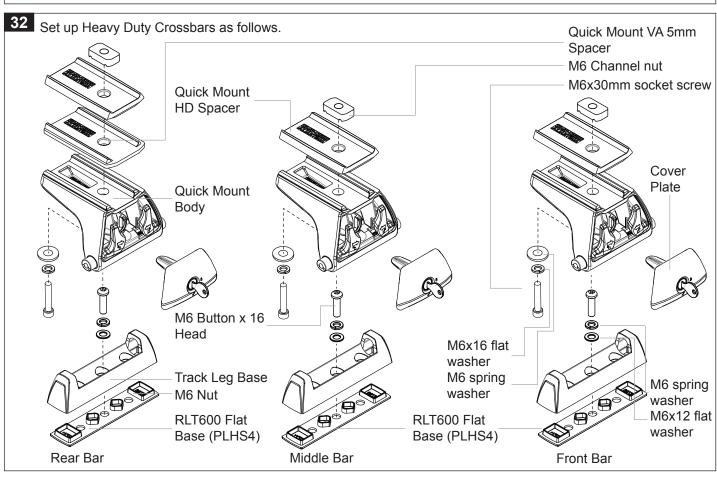


Repeat step 28-30 for the opposite side of the vehicle.

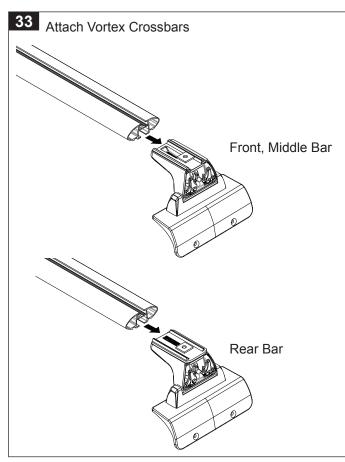


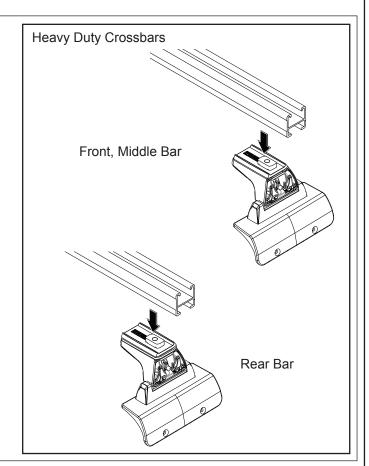
#### Note: Crossbars must be purchased separately. The following steps show crossbar assembly.

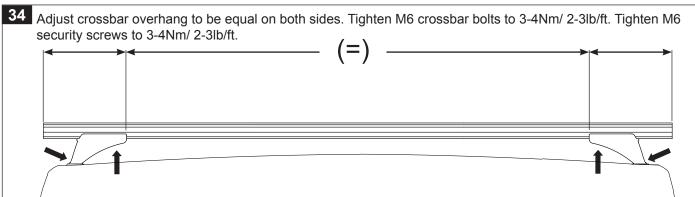


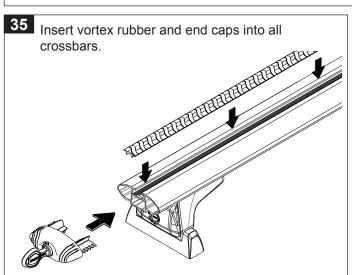


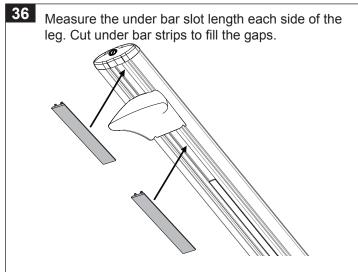












Note: RE-CHECK ALL FASTENERS ARE SECURE.