



Toyota Landcruiser 76 Wagon MY2007 on Scout Roof Rack

IMPORTANT! – READ BEFORE INSTALLATION

- This product must be installed exactly as per these instructions using only hardware supplied.
- Take a few moments to read instructions thoroughly before beginning work.
- In the event of damage to any bar component please contact OFFROAD ANIMAL to arrange repair/replacement of components.
- Do not use this product for any vehicle make or model other than that specified on these instructions.
- Do not remove labels from this product.
- This product and its fixings must not be modified in any way unless stated in these fitting instructions.
- The installation of this product is recommended for trained personnel.
- These instructions are correct at time of publication. OFFROAD ANIMAL cannot be held responsible for the impact of any changes subsequently made by the vehicle manufacturer. If you find something has changed, please contact us to let us know!
- During installation it is the duty of the installer to check correct operation/clearances of all components.
- If Instructions are to be printed for reference in the workshop, it is recommended that they are printed in colour, for best legibility.

Roof Rack Tested Roof Capacity = **150KG**
Roof Rack Rated Cargo Capacity = **115.5KG**

Confirm Maximum Vehicle Roof Rating with Vehicle Manufacturer.

GENERAL CARE AND MAINTENANCE

Only wash the product with a PH neutral car wash to prevent paint damage and discolouration.

Plastic parts may be maintained with silicone spray.

Do not use acidic or alkaline based cleaning products.

It is important to perform regular checks (pre trip or on an annual basis) on the installed product. Checks include:

- Visual inspection for damage (eg. cracks, chips, dents etc.)
- Electrical wiring is not rubbing anything or worn out
- Bolts are torqued to correct specification (see torque guide below)

For touching up small stone chips, Offroad Animal recommends the following paint products:

- Dupli-Color Trim & Bumper Paint Black (TB101)
- VHT Hood, Bumper & Trim Paint Black (SP27)

BOLT TORQUE SETTINGS

Use the following bolt torques on all general fasteners, unless otherwise specified.

GENERAL FASTENERS	
Size	Torque Nm
M5	5 Nm
M6	9 Nm
M8	22 Nm
M10	44 Nm
M12	77 Nm

Use the following bolt torques on all structural front bar mount and tow point fasteners, and rear towbar fasteners, unless otherwise specified.

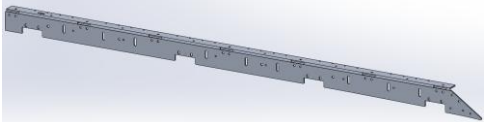
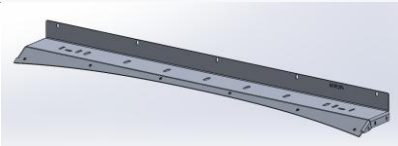
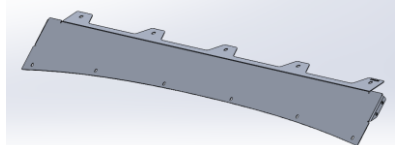
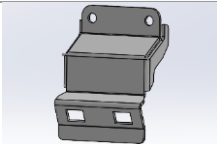
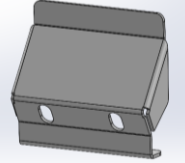
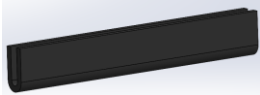
FRONT BAR MOUNTS AND TOW POINTS + REAR TOWBAR	
Size	Torque Nm
M10	57 Nm
M12	100 Nm
M14	164 Nm
M16	248 Nm

Always use a torque wrench to set correct torque settings. Ensure torque wrench is set to Nm unit of measurement. Otherwise perform conversion to lb-ft.

PARTS LISTING

IMPORTANT: Check all parts are present before beginning work! Contact OFFROAD ANIMAL if something is missing.

Main Parts – In the Box

Qty	Part Number	Description	Image
7	E-0005-1300	Scout Roof Rack - Cross Bar Extrusion 1300MM	
1	B-1721L	LC76 Scout Rack Side Rail	
1	B-1721R	LC76 Scout Rack Side Rail	
1	B-1179	LC76/79 Scout Rack Front Panel	
1	B-1180	LC76/79 Scout Rack Wind Deflector	
8	B-1186	LC76/79 Scout Rack Foot	
8	B-1187	LC76/79 Scout Rack Clamp	
8	UC-14-3-90MM	U CHANNEL RUBBER 90MM LONG	
8	PW-P-14X9-90	Pinch Weld - Plain 14X9MM, Rubber, 90mm Length	



Small Parts – Contained in Small Parts Kit Bag

QTY.	PART NO.	DESCRIPTION
16	M8 Cage nut	NUT, CAGE, M8X1.25 ZINC PLATE
5	M8 NUT	Hex Nut, M8x1.25 G8.8 ZP
84	M8 HD FLAT WASHER - BZP	M8 FLAT WASHER - High Tensile 19x8x2mm, ISO4042 ZnNi BLACK PASSIVATED FINISH
10	M8 X 12 BHCS BZP	SCREW, BUTTON HEAD CAP, M8X12X1.25 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINIS
14	M8 X 16 BHCS BZP	SCREW, BUTTON HEAD CAP, M8X16X1.25 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINIS
44	M8 X 20 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M8X20X1.25, ISO4042 ZnNi BLACK PASSIVATED FINISH
16	M8 X 35 BHCS BZP	SCREW, BUTTON HEAD CAP, M8X35X1.25 ISO4042 ZnNi BLACK PASSIVATED FINISH
35	M8 FLANGE NUT	Flange Nut, M8x1.25 G8.8 ZP
16	M6 FLAT WASHER BLACK ZINC	M6 Flat Washer, 12x6.1x1, ISO4042 ZnNi BLACK PASSIVATED FINISH
6	M6x12 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M6X12X1 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH
10	M6x16 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M6X16X1 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH
6	M6 FLANGE NUT	Flange Nut, M6x1 G8.8 ZP



TOOLS REQUIRED

The following tools will be required to install the product. Note Extra Tools will be required for fitment of track kit. Refer to track kit

Hand Tools	Power Tools	Workshop Supplies
Metric Socket Set 8-19mm Socket Extension Bar Metric Spanner Set 10-19mm Hex (Allen) Key Set 4-6mm Torque Wrench capable of Low Torque Settings		Soft Blanket Forklift or Lifting assistance

WORKSHOP SAFETY

It is the responsibility of the installer to always complete works in a safe manner. Make sure the following safety equipment is available and precautions are observed whilst fitting this product.

Hearing Protection 	Always wear ear protection when using power tools.
Eye Protection 	Ensure eye protection is always worn when cutting or drilling.
Manual Handling 	Do not attempt to lift bar assemblies or rock sliders on your own. Always use two people to lift or use mechanical Lifting aid such as hydraulic lifting trolley.
Vehicle Support 	Always ensure vehicle is properly supported when working on it. Do not attempt to fit products whilst suspension work is being carried out. Do not work under a vehicle supported only by a jack.



1. Assemble the roof rack. Start by setting out the 7 extrusions on a table or panel stand. Position them so they sit approximately 300mm apart.
2. **IMPORTANT ASSEMBLY NOTE:** For **ALL FASTENERS** during the assembly process leave finger tight until tightening step.

TOOLS REQUIRED

FASTENERS



3. Fit the side rails to the extrusion,

This is easiest to do when the ends of the extrusions are hanging over the edge of a table / workbench.

We find panel stands work well for this application.

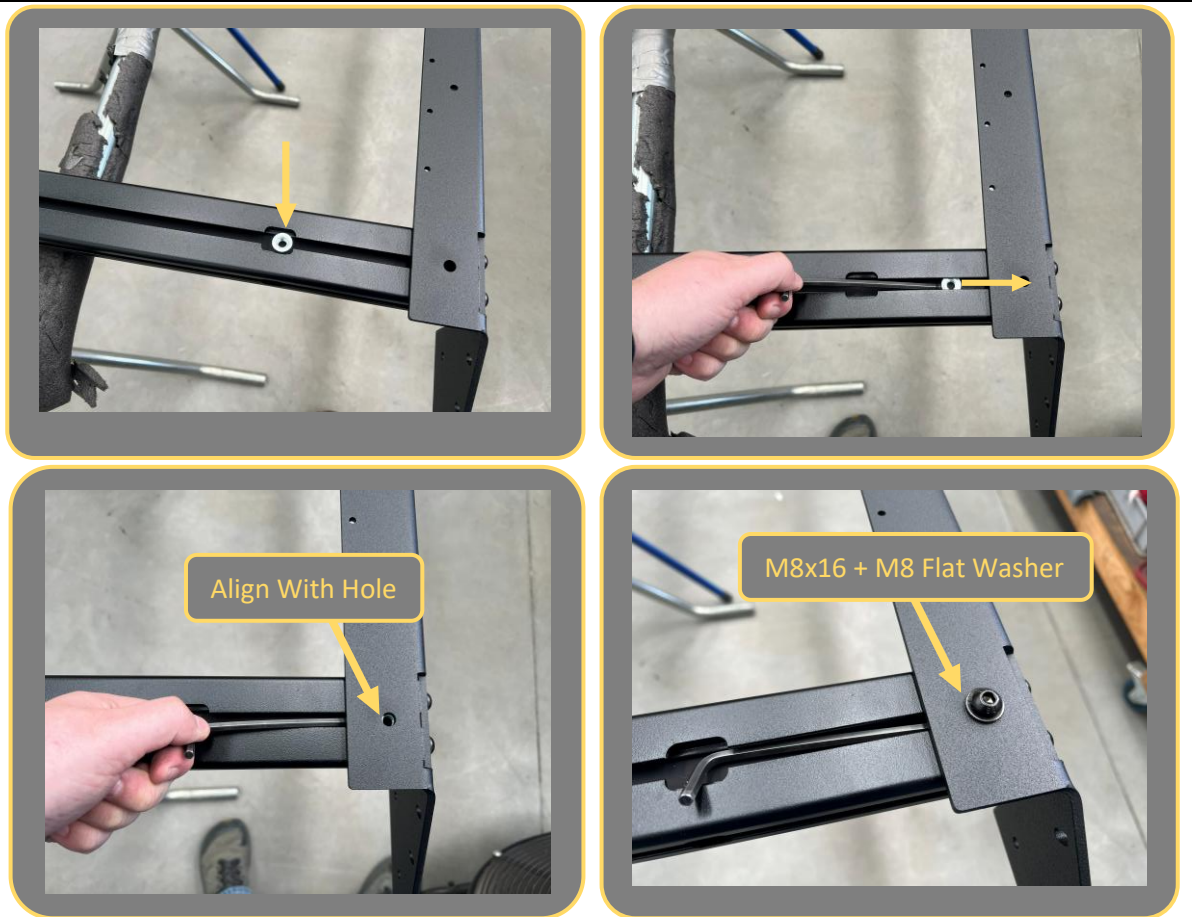
4. Secure using M8x20 Button Head bolts & M8 Washers through the side face into the Tapped holes on the side face of the extrusion.
5. Complete steps for both side rails.

TOOLS REQUIRED

5mm Hex Key

FASTENERS

14x M8x20 Button head bolt.
14x M8 Flat Washer



6. Insert M8 Flange Nut into the top T Slot cutout on each extrusion for securing top face of side rail.
7. Drop nut into slot in extrusion, then slide nut sideways in slot and align with hole in the side rail.
8. Secure with M8x16 Bolt + Flat Washer.
9. Complete top bolt fitment for other side of rail.

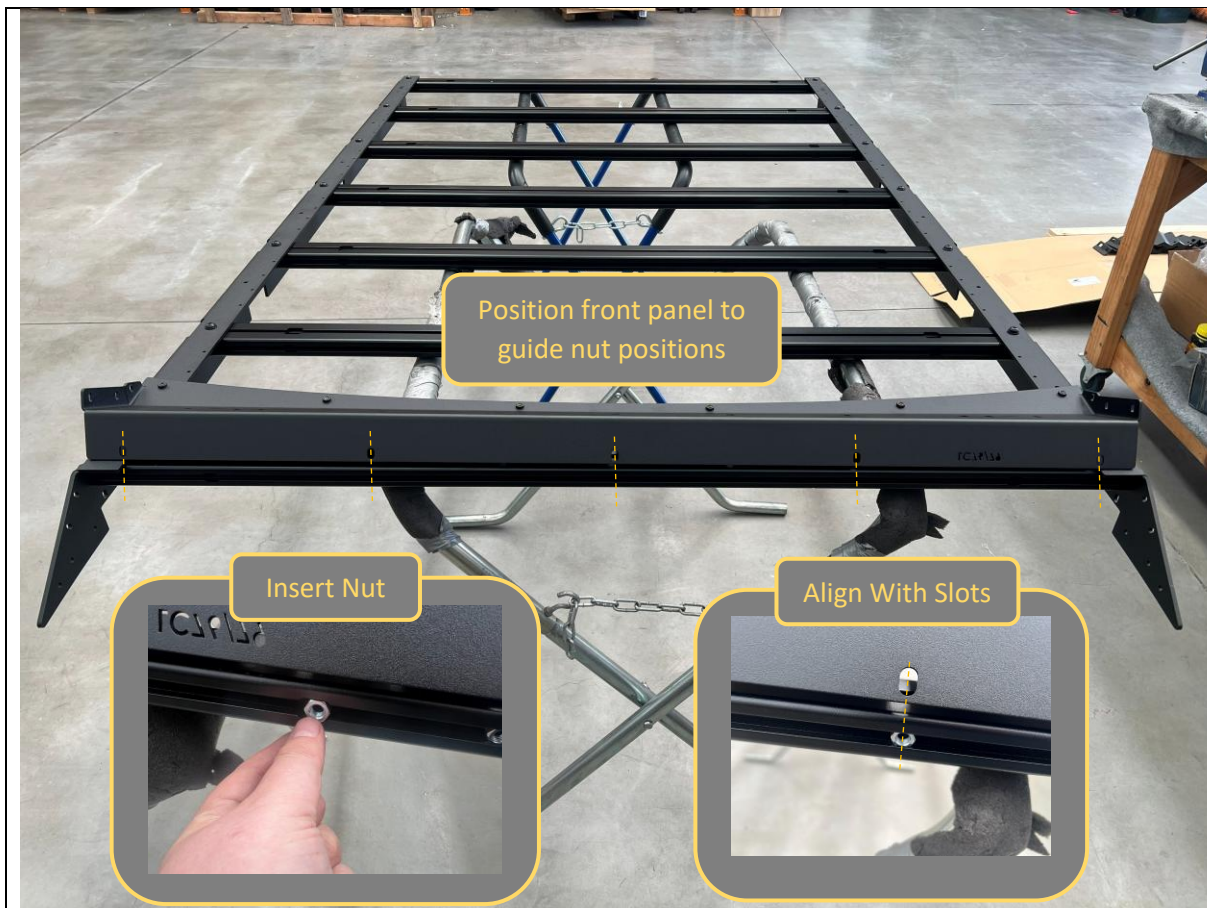
TOOLS REQUIRED

5mm Allen Key

FASTENERS

7x M8 Flange Nuts
7x M8x16 Button head bolt
7x M8 Flat Washer

Per Side



10. Insert 5x M8 nuts into the front slot of the front extrusion.
11. Using the hole positions in the vertical face of the front panel as a guide, use a screwdriver to move nuts into correct positions. Gravity should hold the nut in position.
12. Position 5x M8x12 Button head and M8 Flat washers on the rack within easy reach for the next step.

TOOLS REQUIRED

Screwdriver

FASTENERS

5x M8 Nuts
5xM8x12 Button Head
5xM8 Flat Washer



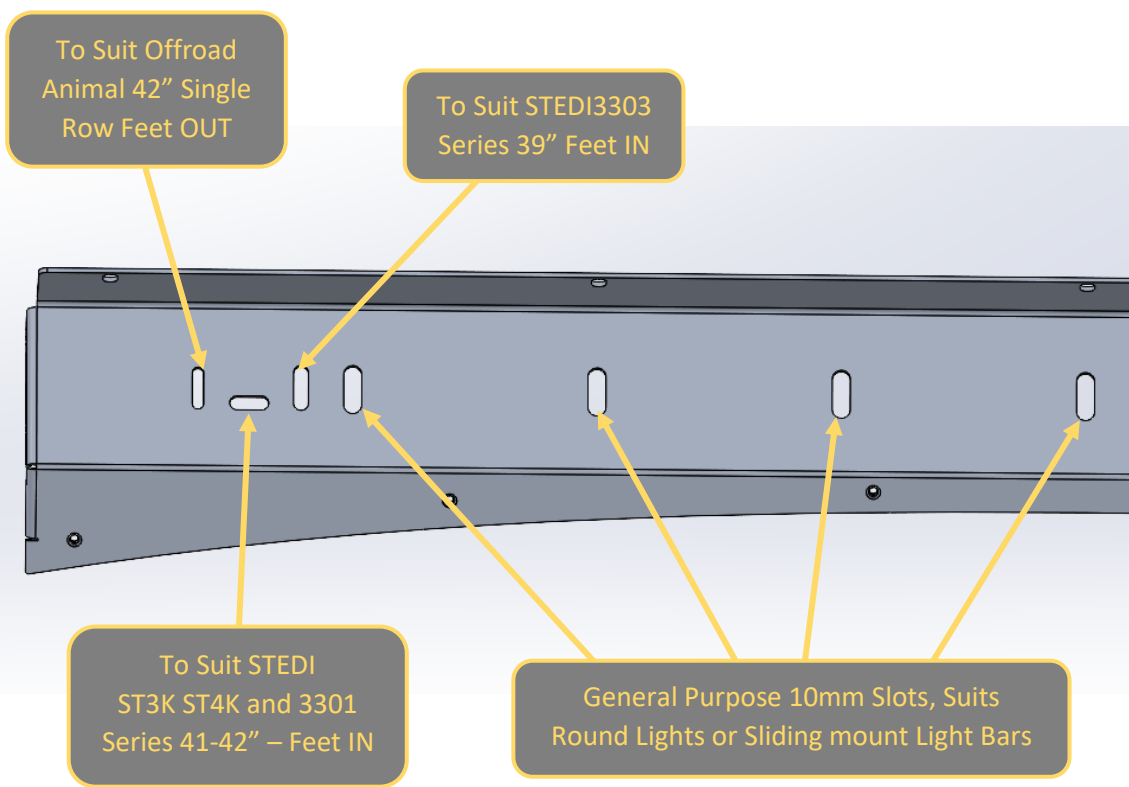
13. Fit the Front panel to the rack assembly. Secure to the pre-placed nuts in the front extrusion using the M8x12 Button head bolts and flat washers.
14. Next, Secure the Front panel to the side arm using 3x M6x16 Button head bolts, flat washers, and Flange nuts per side
15. **Tighten** the 5x M8x12 Button head screws securing front panel to the extrusion. Leave other bolts finger tight.

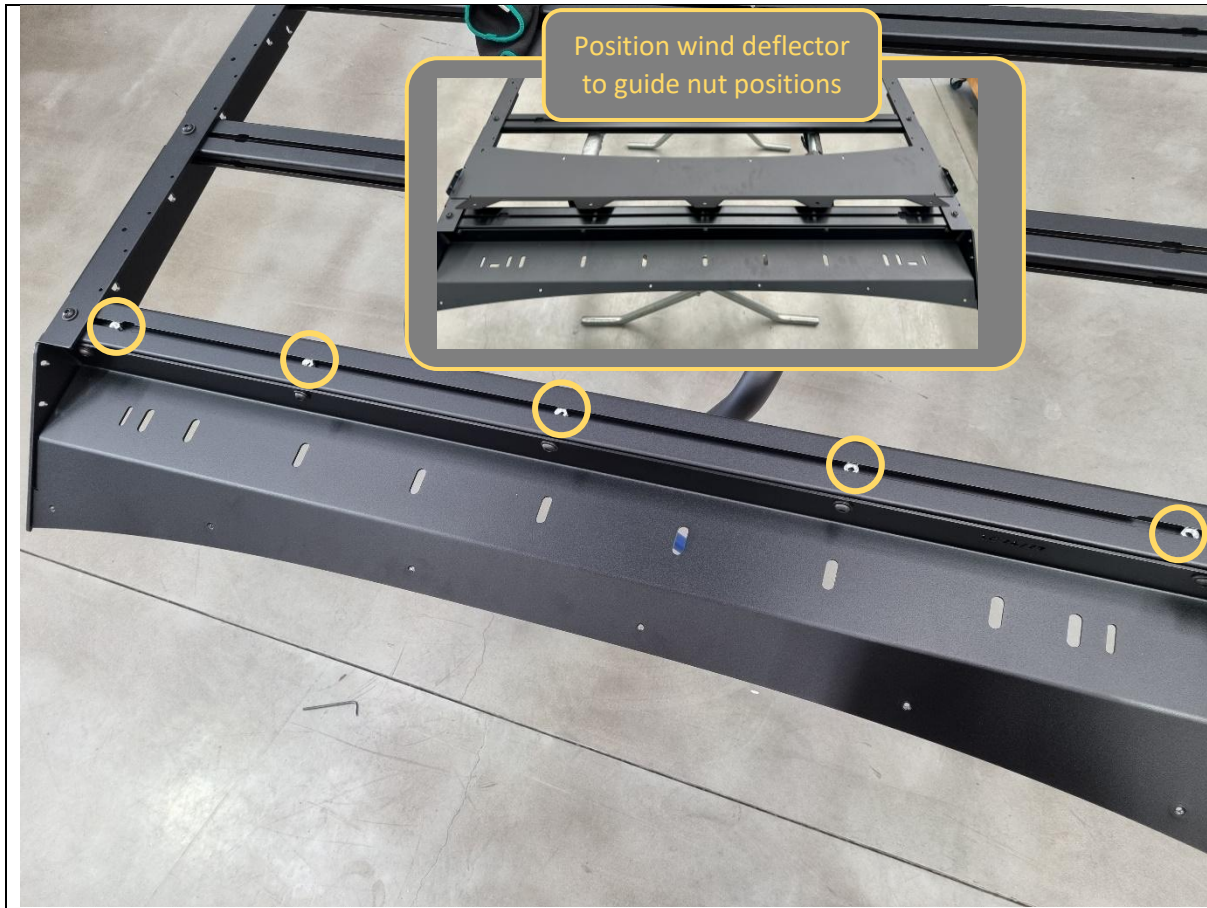
TOOLS REQUIRED

5mm Hex Key

FASTENERS

5x M8X12 Button Head Bolt
5x M8 Flat Washer
6x M6X16 Button Head Bolt
6x M6 Flat Washer
6x M6 Flange Nut Washer

	
16. If fitting a light bar or other lights to the front of rack – do so now. Refer to above image to identify appropriate slots to use. 17. If lights are fitted skip to step 24.	TOOLS REQUIRED
	FASTENERS Fasteners Supplied with Lights

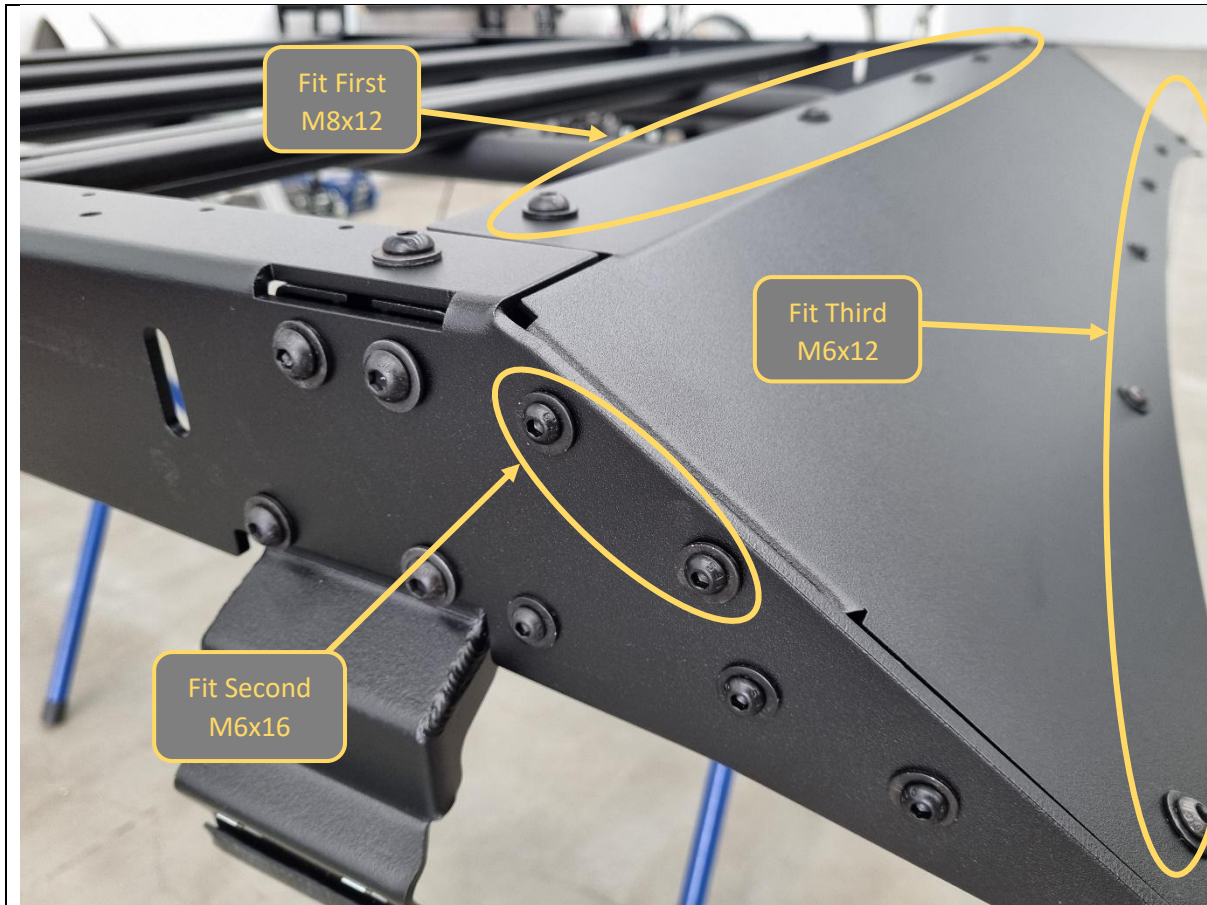


18. If not fitting lights, prepare for fitment of wind deflector by positioning 5x M8 Flange nuts into the top slot of the front extrusion.
19. Using the hole positions in the top face of the wind deflector as a guide, use a screwdriver to move nuts into correct positions. Gravity should hold the nut in position.
20. Position 5x M8x12 Button head and M8 Flat washers on the rack within easy reach for the next step.

TOOLS REQUIRED

FASTENERS

5x M8 Flange Nuts



21. Fit the wind deflector to the rack. Secure to the pre-placed nuts in the front extrusion using the M8x12 Button head bolts and flat washers.
22. Next, Secure the Wind deflector to the side arm using 2x M6x16 Button head bolts, flat washers, into captive nuts on the wind deflector.
23. Finally, Secure the Wind deflector to the Front Panel using 6x M6x12 Button head bolts, flat washers, into captive nuts on the Front Panel.

TOOLS REQUIRED

FASTENERS

5x M8X12 Button Head Bolt
5x M8 Flat Washer
4x M6X16 Button Head Bolt
6x M6X12 Button Head Bolt
10x M6 Flat Washer



24. Fit M8 Cage nuts to the Rack feet. The nuts should sit as per the image shown above. A flat blade screwdriver can assist with installation.
25. Fit the pinch weld rubber to the bottom of the feet. Ensure to apply sufficient pressure to properly seat the pinch weld on the part. This will help prevent excessive settling during clamp tightening.
26. Complete these steps for all 8 rack feet.

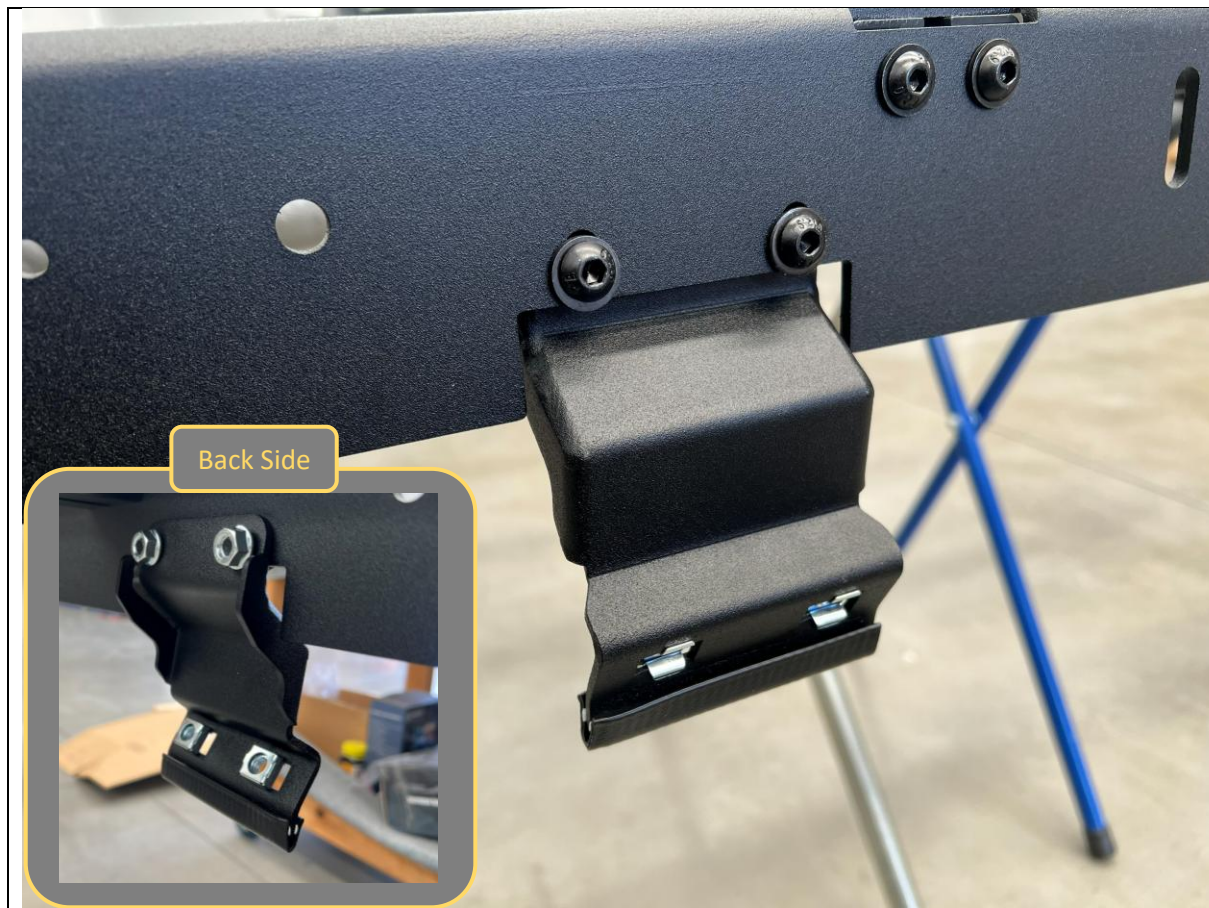
TOOLS REQUIRED

Flat Blade Screwdriver

FASTENERS

2x M8 Cage Nut
1x Pinch weld Rubber 90mm

Per foot



27. Fit the roof rack feet to the rack using M8x20 Button head bolts, M8 Flat washers, and M8 Flange Nuts. Feet should sit on the back side of the side rail.

28. Complete foot fitting for all 8x foot locations. Leave bolts finger tight at this stage.

TOOLS REQUIRED

FASTENERS

16x M8x20 Button head bolts
16x M8 Flat washers
16x M8 Flange Nuts



29. Now is time to **TIGHTEN ALL** bolts securing the components of the rack assembly together.
30. First **Tighten** all horizontal bolts securing the side arms to the Extrusions and front panel / wind deflectors. Complete on both sides
31. For bolts on the wind deflector / front panels, tighten from the center out.
32. Next **Tighten** all vertical bolts.
33. Work methodically from front to back to ensure no bolts are missed.
34. Leave the foot bolts finger tight.

TOOLS REQUIRED

4mm Hex Key
5mm Hex Key

FASTENERS



35. With assistance from at least 4 people or mechanical assistance such as a forklift, lift the rack onto the vehicle.
36. Ensure that all rack feet sit square to the rack in the roof gutters.

TOOLS REQUIRED

Lifting Aid or additional helpers

FASTENERS

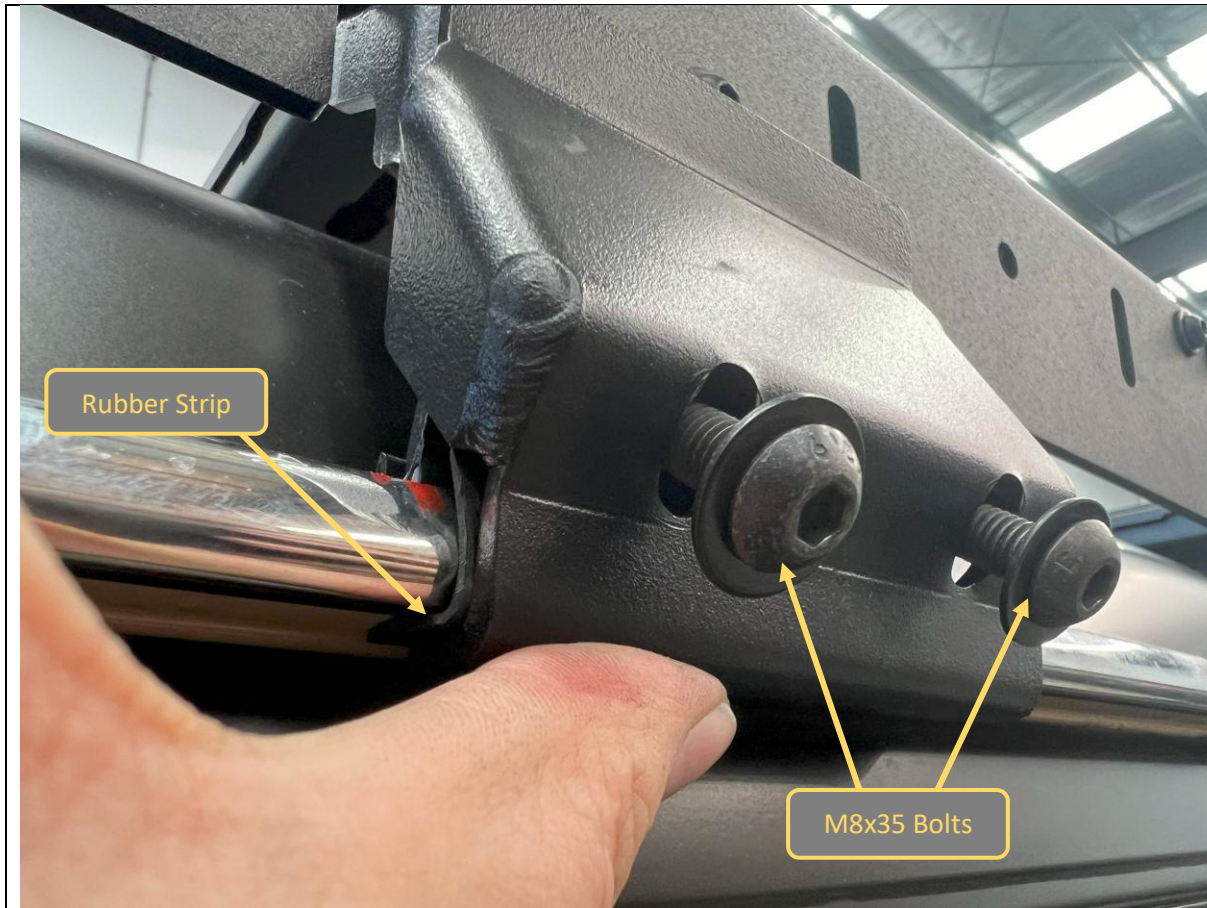


37. Position rack forward to back such that the rearmost point of the rack sits approximately 65mm in front the rear roof gutter. This can be measured with a ruler and level as shown in the image.
38. Adjust the height such that front of the rack sits with approximately 10mm clearance to roof from the center of wind deflector.
39. Adjust the height such that back of the rack sits with approximately 40mm clearance to roof from the center bottom of the rear most cross bar.
40. **Tighten** the foot to side arm bolts.

TOOLS REQUIRED

5mm Hex Key

FASTENERS



41. Fit the clamps to M8 Cage nuts in the feet, using M8x35 Button head bolts and M8 Flat Washers.

42. Ensure that the small rubber strip is positioned in between the strap and the underside of the roof gutter.

We found it is easiest to hold the strip against outside of the gutter as the strap is fitted from below.

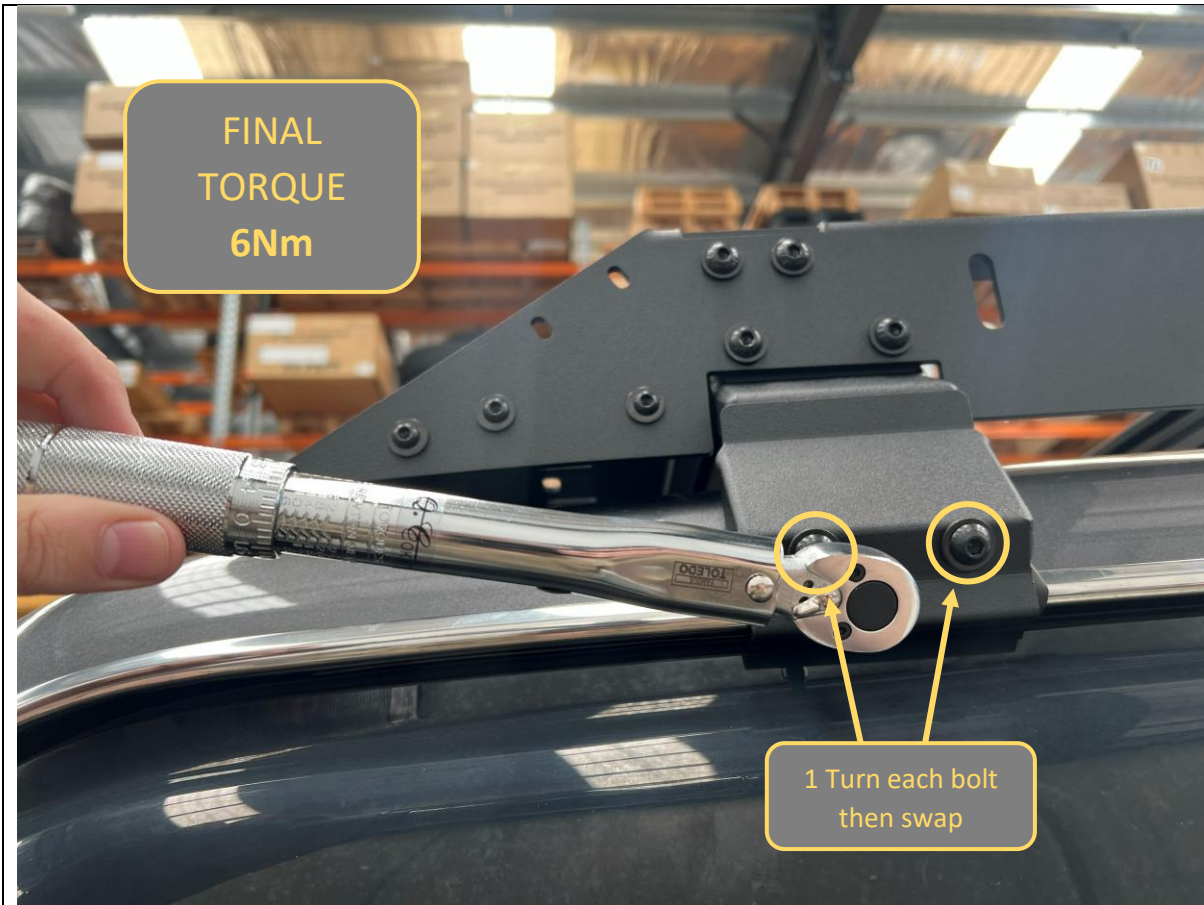
43. Run bolts in finger tight.

44. Complete strap fitting for all 8x Feet

TOOLS REQUIRED

FASTENERS

16xM8x35 Button Head Bolt
16xM8 Flat washer
8x Rubber Strip



45. Carefully and progressively tighten the clamp bolts. The two bolts on each clamp need to be tightened together. Complete 1 turn then swap on each fastener.
46. Progressively work around the rack when tightening, partially tightening each foot then swapping to the next ones.
47. Continue tightening in this sequence using Torque Wrench until **6Nm torque** is achieved on all bolts.

TOOLS REQUIRED

Torque Wrench
5mm Hex Key Socket

FASTENERS



48. Clamp tightening will pull the rack towards the roof as the rack settles on the rubber mounts. Re check clearances set in step 37 - 39.
49. If clearance to roof is now too close, loosen Foot to side arm bolts and re-align front of rack to re set clearance. Re tighten once adjusted.
50. If the position is adjusted re-check strap bolt torque afterwards.

TOOLS REQUIRED

Torque Wrench
5mm Hex Key Socket

FASTENERS



51. Double Check all Fasteners are tight.

52. With That you are done! Head Bush and Enjoy your new rack!

For contact details see www.offroadanimal.com