



Nissan Navara D40 2005-2014

Scout Roof Rack

FITTING INSTRUCTION

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.
- This rack is not designed compatible with sunroof equipped vehicles.

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.

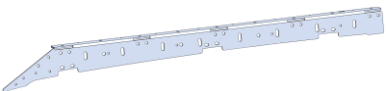
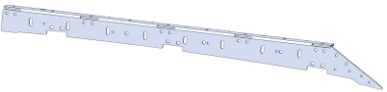
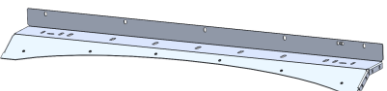

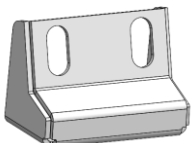
PARTS LISTING

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

Main Parts – Cross Rail Kit

Qty	Part Number	Description	Image
5	E-0006 - 1250	Scout Roof Rack – Cross Bar Extrusion 1250MM	

Main Parts – Main Fitting Kit

Qty	Part Number	Description	Image
1	B-1407L	Navara D40 Scout Rack - Side Rail	
1	B-1407R	Navara D40 Scout Rack - Side Rail	
1	B-1408	Navara D40 Scout Rack - Front Panel	
1	B-1409	Navara D40 Scout Rack - Wind Deflector	
6	B-1410	Navara D40 Scout Rack - Track Mount Bracket	



Small Parts – Contained in Small Parts Kit Bag

QTY.	PART NO.	DESCRIPTION
6	BP-COM-M8X20-TRK-ASM0	M8X20 Roof Track Bolt Plate ASSY
52	M8 HD FLAT WASHER - BZP	M8 FLAT WASHER - High Tensile 19x8x2mm, ISO4042 ZnNi BLACK PASSIVATED FINISH
52	M8 X 20 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M8X20X1.25, ISO4042 ZnNi BLACK PASSIVATED FINISH
32	M6 FLANGE NUT	Flange Nut, M6x1 G8.8 ZP
8	M6 FLAT WASHER BLACK ZINC	M6 Flat Washer, 12x6.1x1, ISO4042 ZnNi BLACK PASSIVATED FINISH
12	M6x16 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M6X16X1 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH
6	M6x12 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M6X12X1 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH
10	M8 X 16 BHCS BZP	SCREW, BUTTON HEAD CAP, M8X16X1.25 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH
20	M8 NUT	Hex Nut, M8x1.25 G8.8 ZP
18	M8 FLANGE NUT	Flange Nut, M8x1.25 G8.8 ZP
10	M8 X 12 BHCS BZP	SCREW, BUTTON HEAD CAP, M8X12X1.25 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH



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 Screwdriver Set Tape Measure Centre Punch Hammer	Electric Drill (ref Track Kit Instructions) Rivet Tool (ref Track Kit Instructions)	Soft Blanket Table or Panel Stand Masking Tape Marker Pen

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.

<p>Hearing Protection</p> 	<p>Always wear ear protection when using power tools.</p>
<p>Eye Protection</p> 	<p>Ensure eye protection is always worn when cutting or drilling.</p>
<p>Manual Handling</p> 	<p>Do not attempt to lift bar assemblies or rock sliders on your own.</p> <p>Always use two people to lift or use mechanical Lifting aid such as hydraulic lifting trolley.</p>
<p>Vehicle Support</p> 	<p>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.</p>



1. Begin by fitting the Roof Tracks, follow the instructions provided with the roof track kit.

TOOLS REQUIRED

Refer to Roof Track Kit Instructions

FASTENERS

Supplied with Roof Track Kit



2. Next Assemble the roof rack. Start by setting out the 5 extrusions on a table or panel stand.

TOOLS REQUIRED

FASTENERS



3. Fit the side rail to the extrusion,

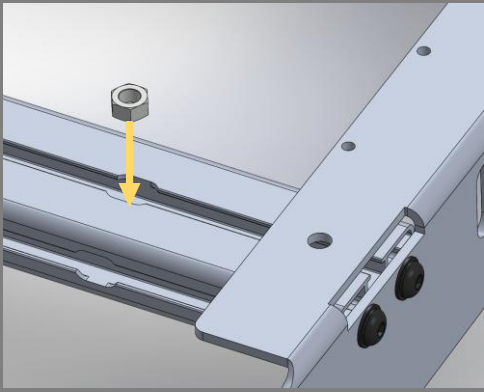
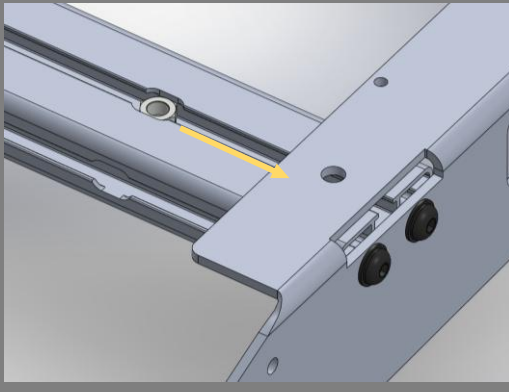
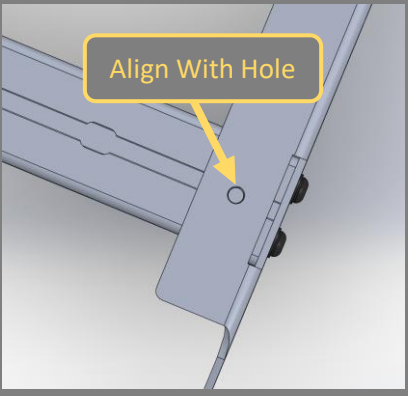

This is easiest to do when the ends of the extrusions are hanging over the edge of a table / work stand.

4. Secure using M8x20 Button Head bolts through the side face into the Tapped holes on the side face of the extrusion.
5. Complete for both sides of the rack leave bolts finger tight at this stage.

TOOLS REQUIRED

FASTENERS

10x M8x20 Black Button head bolt.
10x M8 Black HD Flat Washer

	
	
<ol style="list-style-type: none"> 6. Insert M8 Nut into each track 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 steps for the other side of the rack assembly to fit the other side rail. Leave all bolts finger tight 	<p>TOOLS REQUIRED</p> <p>5mm Allen Key</p>
	<p>FASTENERS</p> <p>5x M8 Nuts 5x M8x16 Button head bolt 5x M8 HD Black Washer</p> <p>Per Side</p>



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



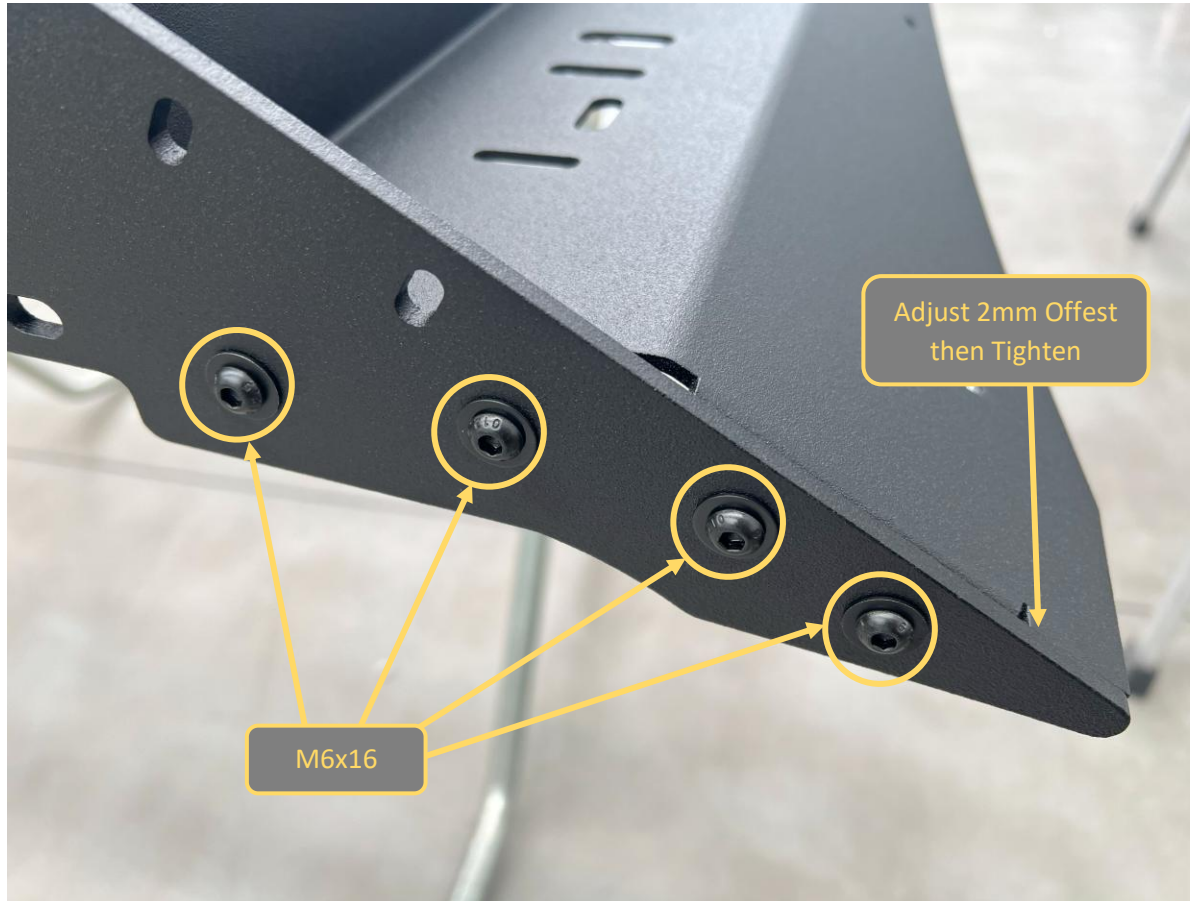
13. Fit the Front panel to the rack assembly. Secure panel using the M8x12 Button head bolts and flat washers into the pre-placed nuts in the front extrusion.

14. Start in the center to make fitting easier.

TOOLS REQUIRED

FASTENERS

5x M8X12 Button Head Bolt
5x M8 Flat Washer



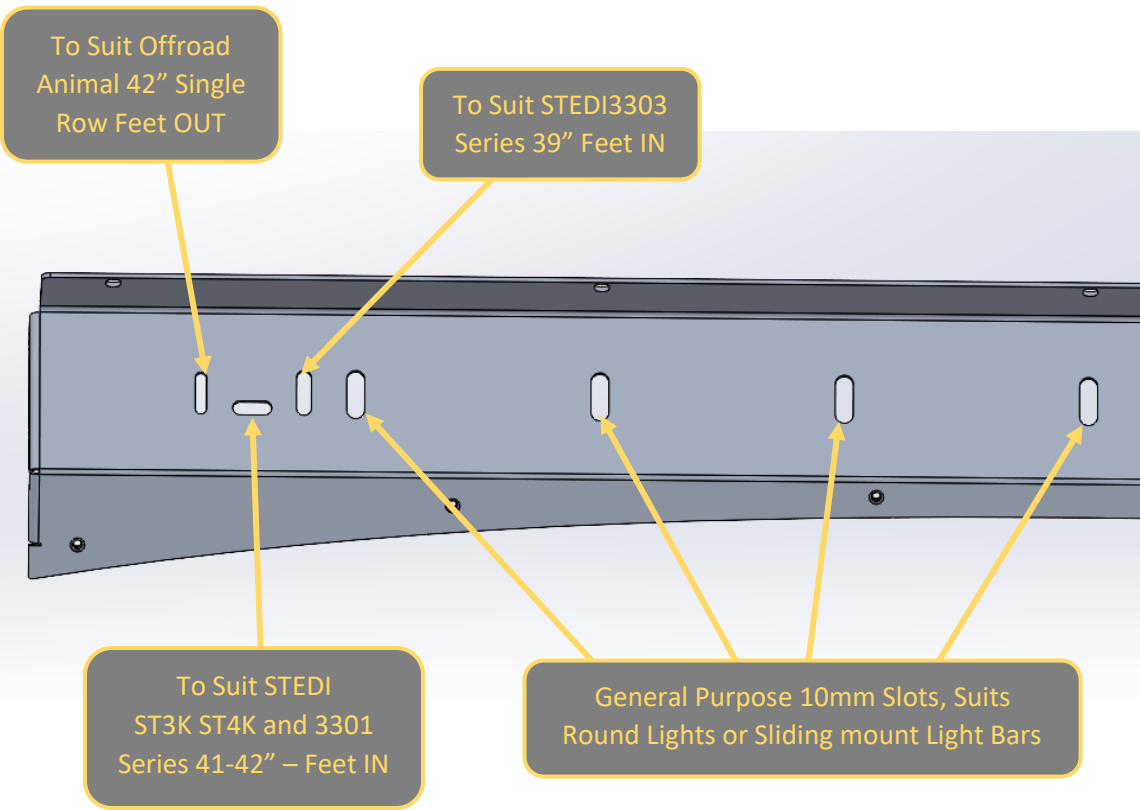
15. Fit M6x16 Button head, M6 Black Flat Washer and M6 Flange Nut to secure the tabs of the front panel to the side arm.
16. Complete for both sides.
17. Once all bolts are fitted adjust such that the lower face of the front panel sits 2mm below the top edge of the side arm. Tighten all M6 bolts fitted in previous steps.
18. Once Adjusted tighten the Horizontal M8x12 bolts securing the Front panel to the cross bar, starting in the center, and working progressively out.

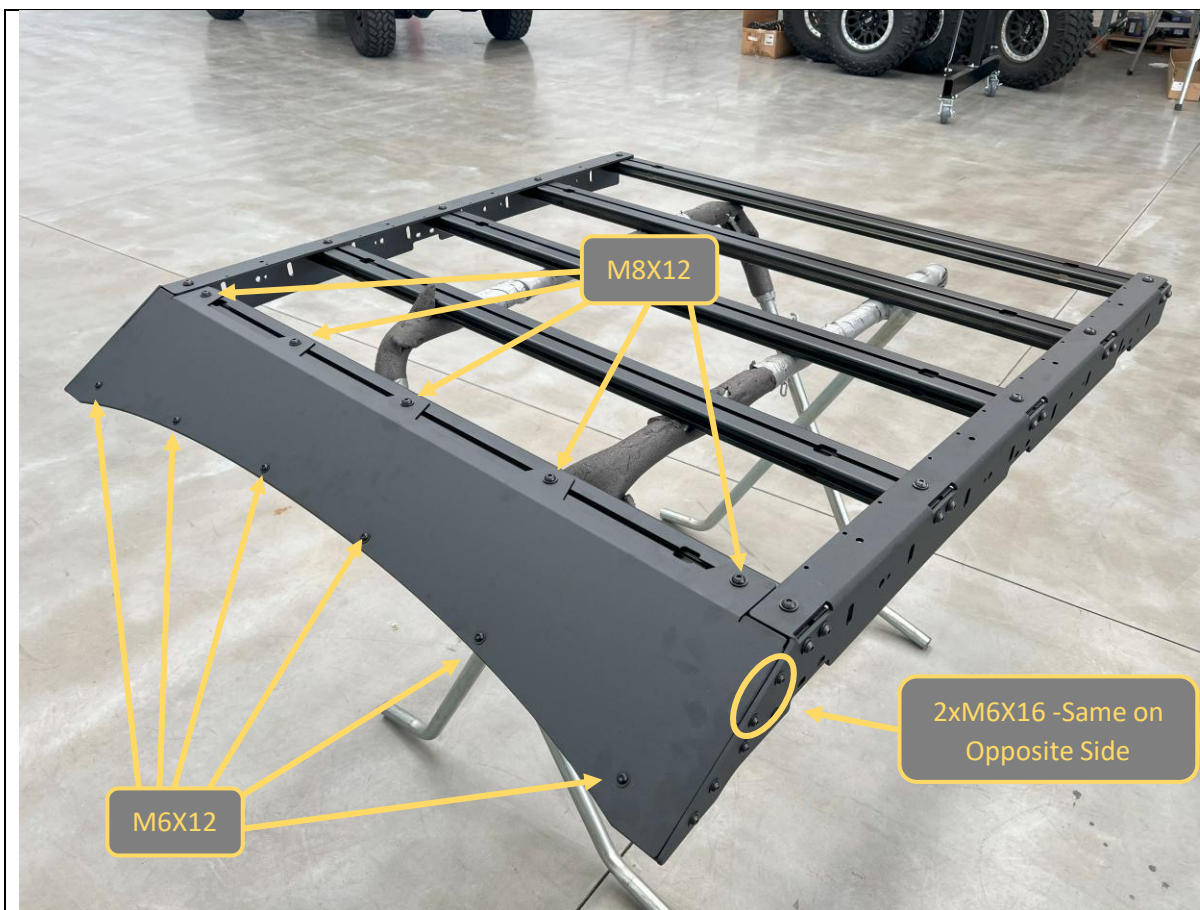
TOOLS REQUIRED

4mm Hex Key
5mm Hex Key

FASTENERS

8x M6x16 Button head bolt.
8x M6 Flat Washer
8x M6 Flange Nut

	
<p>19. If fitting a light bar or other lights to the front of rack – do so now. Refer to the above image to identify appropriate slots to use.</p> <p>20. If lights are not fitted skip to step 27.</p>	<p>TOOLS REQUIRED</p>
	<p>FASTENERS</p> <p>Fasteners Supplied with Lights</p>



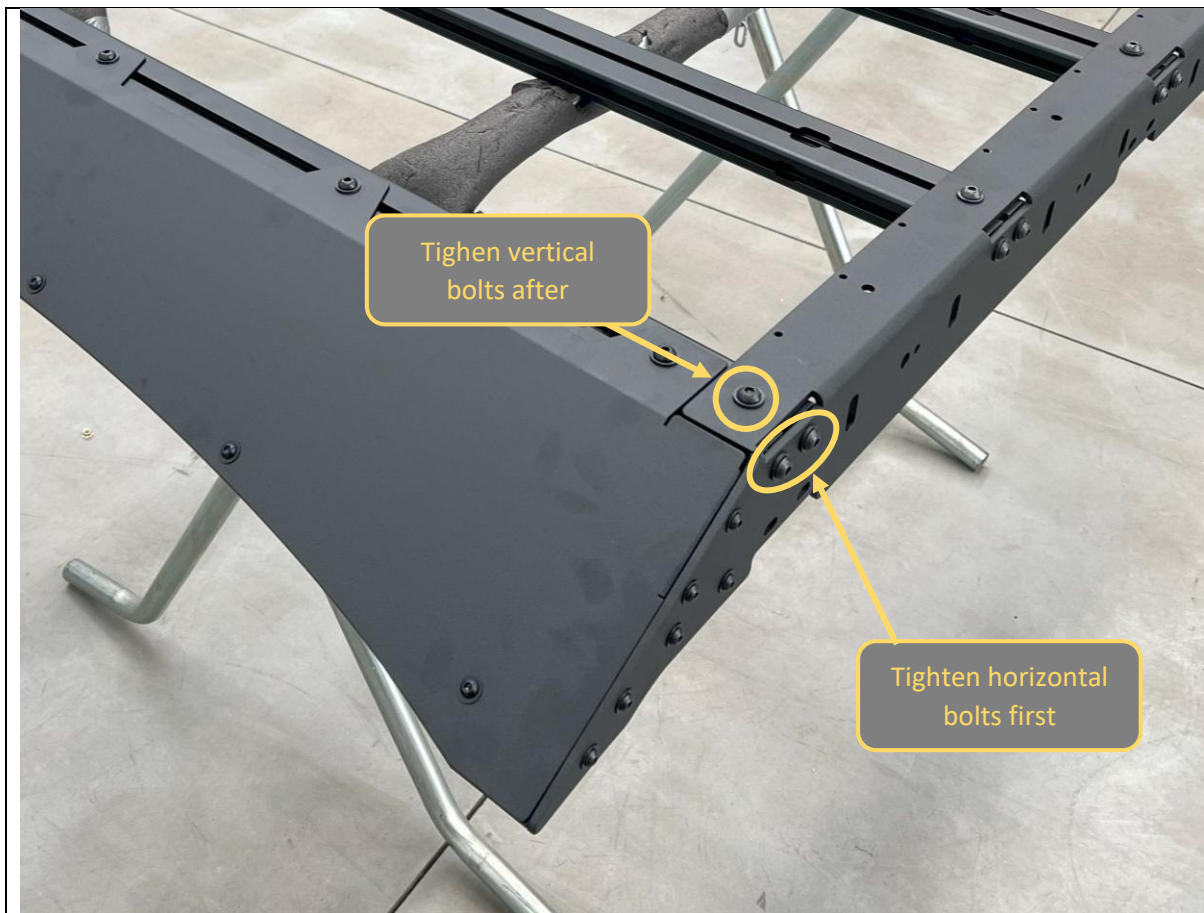
21. If not fitting lights, fit the wind deflector by first positioning 5x M8 nuts into the top slot of the front extrusion.
22. Using the hole positions in the top face of the wind deflector as a guide, use a finger or screwdriver to move nuts into correct positions. Gravity should hold the nut in position.
23. Fit the wind deflector and secure top edge with M8x12 Bolts into the nuts placed earlier.
24. Secure sides with M6x16 Button Head bolt and Flat washer into captive nut in wind deflector
25. Secure bottom edge with M6x12 Button head + flat washer into captive nuts in Front Panel
26. Tighten all wind deflector bolts, starting in the center and working towards the outer edges.

TOOLS REQUIRED

4mm Hex Key
5mm Hex Key

FASTENERS

5x M8 Nuts
5xM8x12 Black BHCS
4xM6x16 Black BHCS
6xM6x16 Black BHCS
8x M6 Black Washer



<p>27. Now is time to TIGHTEN ALL bolts securing the components of the rack assembly together.</p> <p>28. First Tighten all horizontal bolts securing the side arms to the Extrusions and front panel / wind deflectors. Complete on both sides</p> <p>29. Next Tighten all vertical bolts.</p>	<p>TOOLS REQUIRED</p> <p>4mm Hex Key 5mm Hex Key</p>
<p>30. Work methodically from front to back to ensure no bolts are missed.</p> <p>31. If fitted, tighten the wind deflector bolts from center progressively out to the sides.</p> <p>32. It is recommended NOT to use power tools for this step to prevent cross threading or stripping bolt heads</p>	<p>FASTENERS</p>



33. Fit the 6x mounting brackets to the rack using M8x20 Button head screws, Flat washers, and Flange nuts

34. Leave all mounts finger tight at this stage.

TOOLS REQUIRED

FASTENERS

12x M8x20 Button Head Bolt
12x M8 HD Flat Washer
12x M8 Flange Nut

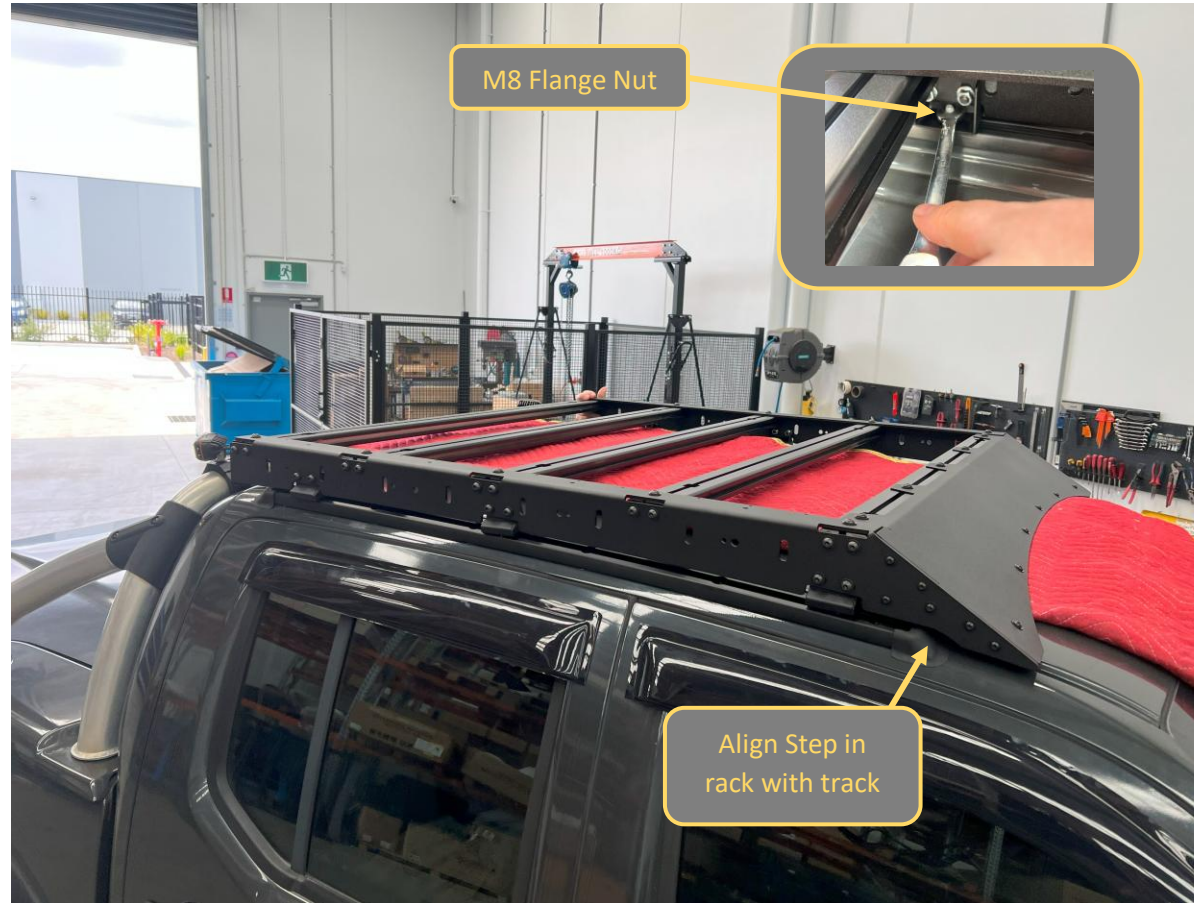


35. Now the rack is assembled it's time to prepare the roof for fitment of the rack.
36. Place a soft blanket on the roof of the vehicle to protect as the rack is lifted on.
37. Insert and position the 6x track bolts (3x per side) into the roof tracks in the approximate positions shown.

TOOLS REQUIRED

FASTENERS

6x Track Bolts



38. With assistance from another person, lift the rack onto the vehicle.
39. Position rack such that the rack feet sit upon the track and align with the track bolts. Adjust mounts and track bolts as required to align.
40. Secure rack to track using M8 Flange Nuts

41. Slide the rack fore / aft such that the cutout in the bottom edge of the side rail aligns with the step at the end of the track. Ensure alignment is symmetric side to side.
42. Tighten the M8 Flange nuts securing the mounts to the track gradually, partially tightening each bolt moving around in a circular pattern until all bolts are tight.

TOOLS REQUIRED

13mm Spanner

FASTENERS

6x M8 Flange Nut



43. Level out rack relative to roof and tighten the M8x20 Button head bolts securing the front mounting brackets. Ensure clearances are even side to side

44. There should be approximately 10mm gap between the wind deflector and roof in the center.

TOOLS REQUIRED

5mm Hex Key

FASTENERS



45. Double Check all Fasteners are tight.

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

For contact details see www.offroadanimal.com