



## Nissan Navara NP300 2015+

### 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.

## 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.

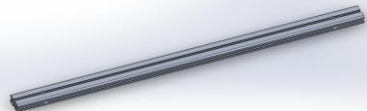
FRONT BAR MOUNTS AND TOW POINTS + REAR TOWBAR	
Size	Torque Nm
M10	57 Nm
M12	100 Nm
M14	164 Nm
M16	248 Nm

**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.**

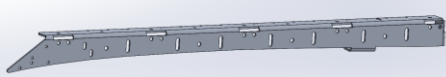
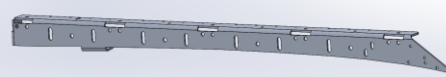
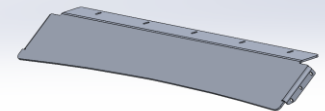


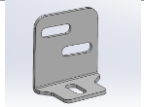
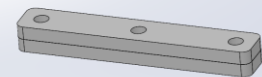
## PARTS LISTING

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

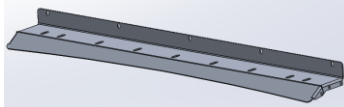
### Main Parts – Cross Rail Kit

Qty	Part Number	Description	Image
5	E-0005 - 1200	Scout Roof Rack – Cross Bar Extrusion 1200MM	

### Main Parts – Main Fitting Kit

Qty	Part Number	Description	Image
1	B-0551L	Navara NP300 Scout Roof Rack Side Rail	
1	B-0551R	Navara NP300 Scout Roof Rack Side Rail	
1	B-0552	Navara NP300 Scout Roof Rack Wind Deflector	
4	P-0194	NP300 Navara Scout Rack Mid / Rear Nut Plate	
1	B-0705L	NP300 Navara Scout Rack Front Mount Bracket	
1	B-0705R	NP300 Navara Scout Rack Front Mount Bracket	
4	RR-IDM-RG-21-SCT-ASM3	DMAX Scout Rack - Rear Mounting Block	

### Optional Light Bar Kit – Purchased Separately

Qty	Part Number	Description	Image
1	B-0553	NP300 Navara Scout Roof Rack Light Bar Wind Deflector	



## Small Parts – Contained in Small Parts Kit Bag

QTY.	PART NO.	DESCRIPTION
6	M6x16 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M6X16X1 GR12.9 BLACK ZP
6	M6 FLAT WASHER BLACK ZINC	M6 FW BLACK ZP
6	M6 FLANGE NUT	Flange Nut, M6x1 G8.8 ZP
21	M8 NUT	Hex Nut, M8x1.25 G8.8 ZP
41	M8 HD FLAT WASHER - BZP	M8 FLAT WASHER - High Tensile 19x8x2mm, BLACK ZINC PLATE
37	M8 X 16 BHCS BZP	SCREW, BUTTON HEAD CAP, M8X16X1.25 GR12.9 BLACK ZP
8	M8 X 30 HEX	Bolt Hex, M8X30X1.25, GR8.8 ZP
12	M8 HD FLAT WASHER	M8 FLAT WASHER - High Tensile 19x8x1.9mm
2	M8 X 20 HEX	Bolt Hex, M8X20x1.25, GR8.8 ZP
4	M8 FLANGE NUT	Flange Nut, M8x1.25 G8.8 ZP
4	M8 SPRING WASHER	M8 SPLIT SPRING WASHER - High Tensile 14.8OD 2mm Thick
2	M8 X 25 HEX	Bolt Hex, M8X25x1.25, GR8.8 ZP
4	M8 X 20 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M8X20X1.25 BLACK ZP
2	OFA-LOGO	OFFROAD ANIMAL METAL LOGO




## TOOLS REQUIRED

The following tools will be required to install the product.

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 Trim Tools Screwdriver Set Tape Measure Centre Punch Hammer	Electric Drill Shop Vacuum 9MM Drill Bit	Soft Blanket Automotive grade Polyurethane or Silicone Sealant Permanent Marker Masking Tape

## 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. To fit the roof rack mounts, the headliner must be lowered. During process take care to retain all fasteners and parts to assist with reassembly.
2. Start by removing the plastic trims covering fasteners on the grab handles and sun visors using a plastic or rag covered metal trim tool.

#### TOOLS REQUIRED

Trim tool

#### FASTENERS



3. Remove the 2x Plastic plugs securing roof liner above rear passenger seats.
4. Take care to avoid marking roof liner.

**TOOLS REQUIRED**

Trim Tool

**FASTENERS**





5. Remove sun visor keepers by rotating keepers 90 degrees and withdrawing from roof.

**TOOLS REQUIRED**

**FASTENERS**



6. Remove "SRS AIRBAG" Trim from B-Pillar trim panel using trim tool. This will uncover a 10mm head bolt.
7. Remove the bolt with 10mm Socket. Take extra care to ensure the bolt is not dropped in the gap between the trim panel and Pillar.

#### TOOLS REQUIRED

Trim Tool  
10mm Socket

#### FASTENERS



8. Remove A pillar grab handles by removing 2x 10mm bolts securing to A pillar using socket or spanner.
9. Repeat process to remove B pillar grab handles.
10. Fasteners should remain captive on handle

**TOOLS REQUIRED**

10mm socket or spanner

**FASTENERS**



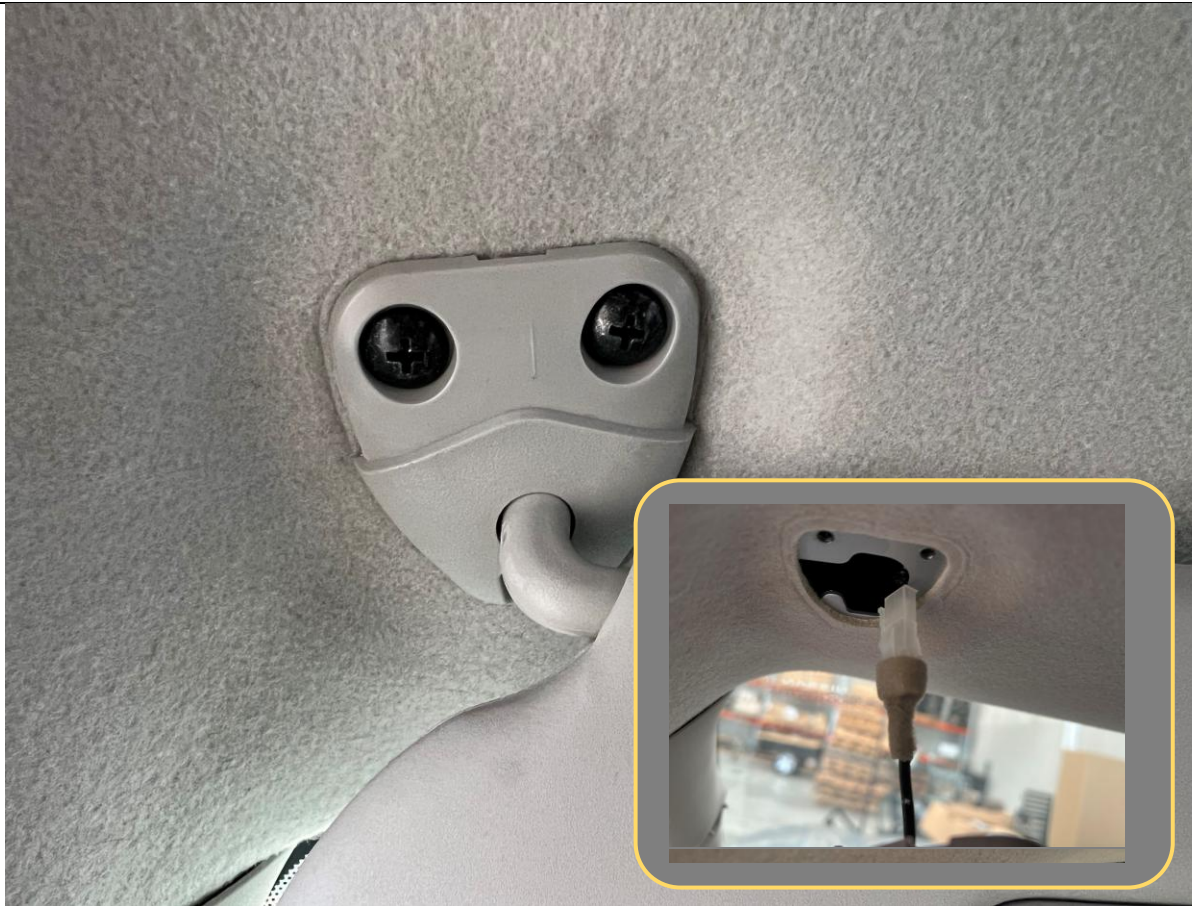
11. Remove above door passenger grab handles by removing 2x 10mm bolts securing to roof using socket or spanner.
12. Fasteners should remain captive on handle.

#### TOOLS REQUIRED

10mm socket or spanner

#### FASTENERS





13. Remove sun visors by removing the 2x Phillips head screws securing to roof.
14. Take care to support sun visor whilst removing screws. Once loose carefully withdraw from roof to reveal the vanity light wiring connector. Disconnect and set visor aside.
15. Repeat for both visors.

#### TOOLS REQUIRED

Phillips head screwdriver.

#### FASTENERS



16. Using a trim tool pry the front of the roof Sunglasses holder / light panel downwards to release the metal clips securing it to the roof.
17. Once clips released withdraw panel from roof toward front of the car, the rear-view mirror position may need to be adjusted to allow this.

#### TOOLS REQUIRED

Trim Tool

#### FASTENERS



18. Disconnect the wiring harness connectors from the back side of the roof panel.

**TOOLS REQUIRED**

**FASTENERS**





19. Release the interior light lens using a trim tool or small flat blade screwdriver in the small slot adjacent to the main switch.
20. Remove the light from the roof by removing the 2x Phillips head screws securing to the roof. Remove wiring connector and set aside.

#### TOOLS REQUIRED

Trim tool  
Or  
Small flat screwdriver  
Phillips head screwdriver

#### FASTENERS





21. Release door rubbers and peel back to past the level of the beige portion of the pillar trim panels.

22. Complete for all doors.

**TOOLS REQUIRED**

**FASTENERS**



23. Pull away A pillar trim firmly starting at top to release trims.
24. Progressively release clips down towards dash.
25. Remove trim on passenger side. Drivers side has two stage clip, shown in inset image that is difficult to remove. Leave attached and let panel hang down for driver side.

#### TOOLS REQUIRED

#### FASTENERS



26. Pull away B pillar trim firmly to release clips.
27. Clips are located towards the top of the panel.
28. Complete same process for C Pillar trims.

**TOOLS REQUIRED**

**FASTENERS**



29. Roof liner should now be loose. Tilt back driver and passenger seats to allow more room for liner to drop down.

30. Gently flex the roof liner past the B and C pillar trims. Take care to minimize any buckling of the roof liner. Use as little force as required to complete this.

31. Take care not to place excessive strain on cables.

32. Once liner is hanging low enough to access underside of roof leave in position.

#### TOOLS REQUIRED

#### FASTENERS





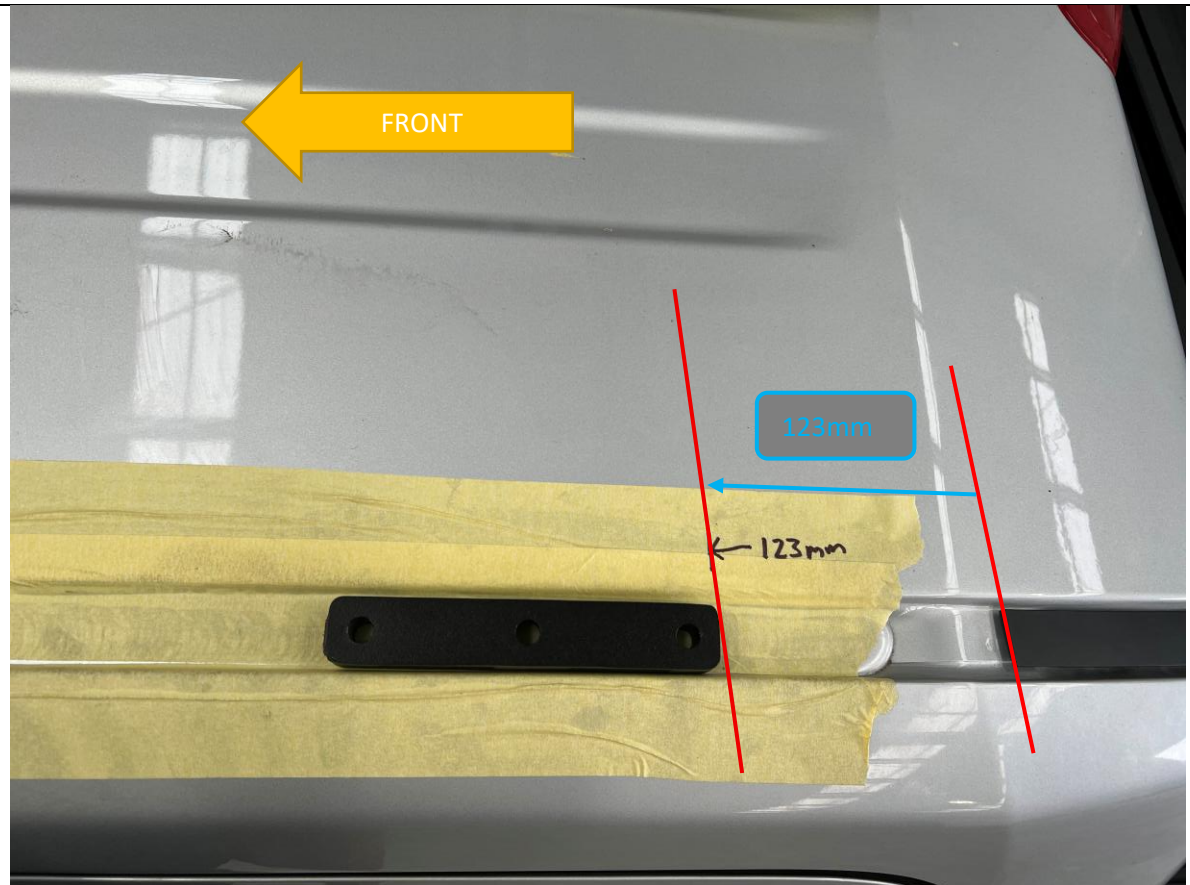
33. Remove 2x 10mm head bolts securing airbag inflators to the roof. DO NOT remove airbag wiring harness connectors.
34. Reposition airbag inflator out of its cradle to provide better access to underside of roof.
35. Complete on both sides of vehicle.

#### TOOLS REQUIRED

10mm Socket / Spanner

#### FASTENERS

Factory 10mm head flange bolts  
(Retain)

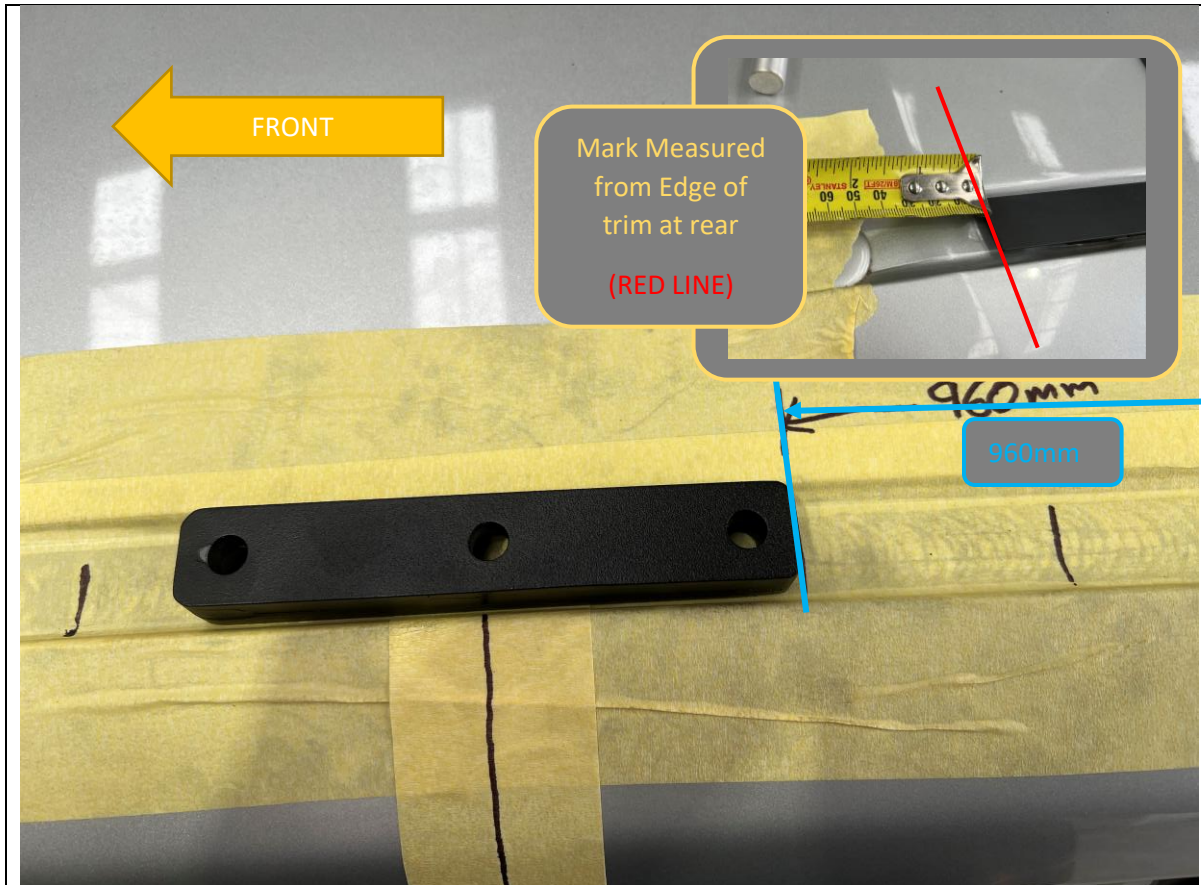


36. Place masking tape on the roof adjacent to the rubber roof trim.
37. Measure and mark a point 123mm from the join in the roof rubber for the rear mounting block.
38. Place mounting block on the roof and mark both sides of the mounting block

#### TOOLS REQUIRED

Masking Tape  
Pen / Marker  
Tape Measure

#### FASTENERS



39. Place masking tape on the roof in the gutter above the B Pillar, the location for the front mount.
40. Measure and mark a point 960mm from the join in the roof rubber for the front mounting block.
41. Place mounting block on the roof and mark both sides of the mounting block
42. Repeat all marking steps for mounting points on opposite side of vehicle.

#### TOOLS REQUIRED

Masking Tape  
Pen / Marker  
Tape Measure

#### FASTENERS





43. With the blocks sitting in the correct positions on the roof, use a 9mm drill bit to mark the hole locations by inserting into the holes and twisting by hand to mark the masking tape. Complete for all mounting blocks.

44. Remove the blocks, and center punch the hole locations.

45. Replace blocks. Re-Measure positions of blocks and visually confirm that the center punched marks are centered in the holes of the mounting blocks. **DO NOT SKIP THIS STEP.**

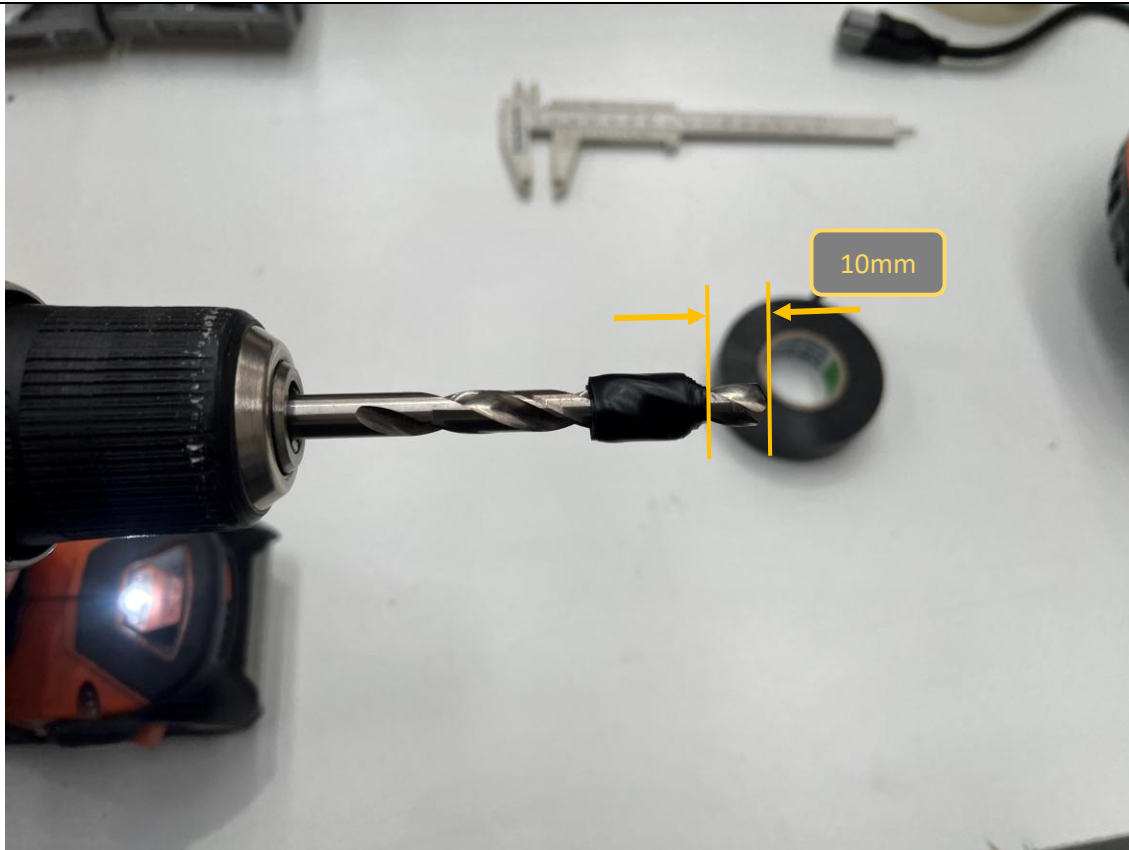
**ONLY Proceed once you are satisfied the holes are marked in the correct locations!**

#### TOOLS REQUIRED

9mm Drill Bit  
Centre Punch.

#### FASTENERS





46. Insert 9mm drill into electric drill

47. If using drill stop set to 10mm depth. If no drill stop available mark 10mm depth on drill using electrical tape or similar as per above photo.

#### TOOLS REQUIRED

Drill Stop  
Or  
Tape

#### FASTENERS



48. Before drilling, check underside of drill locations for any obstructions. Un clip wiring harnesses or similar as required to ensure breakthrough area is clear and drill will not damage anything in the roof.

**DO NOT** disconnect any airbag wiring harness connectors.

49. Carefully Drill holes in locations marked. Take extra care upon breakthrough to ensure that drill cuts through all layers and does not push and separate panels in the seam.

50. **DO NOT** let the drill bit insert more than 10mm into the roof.

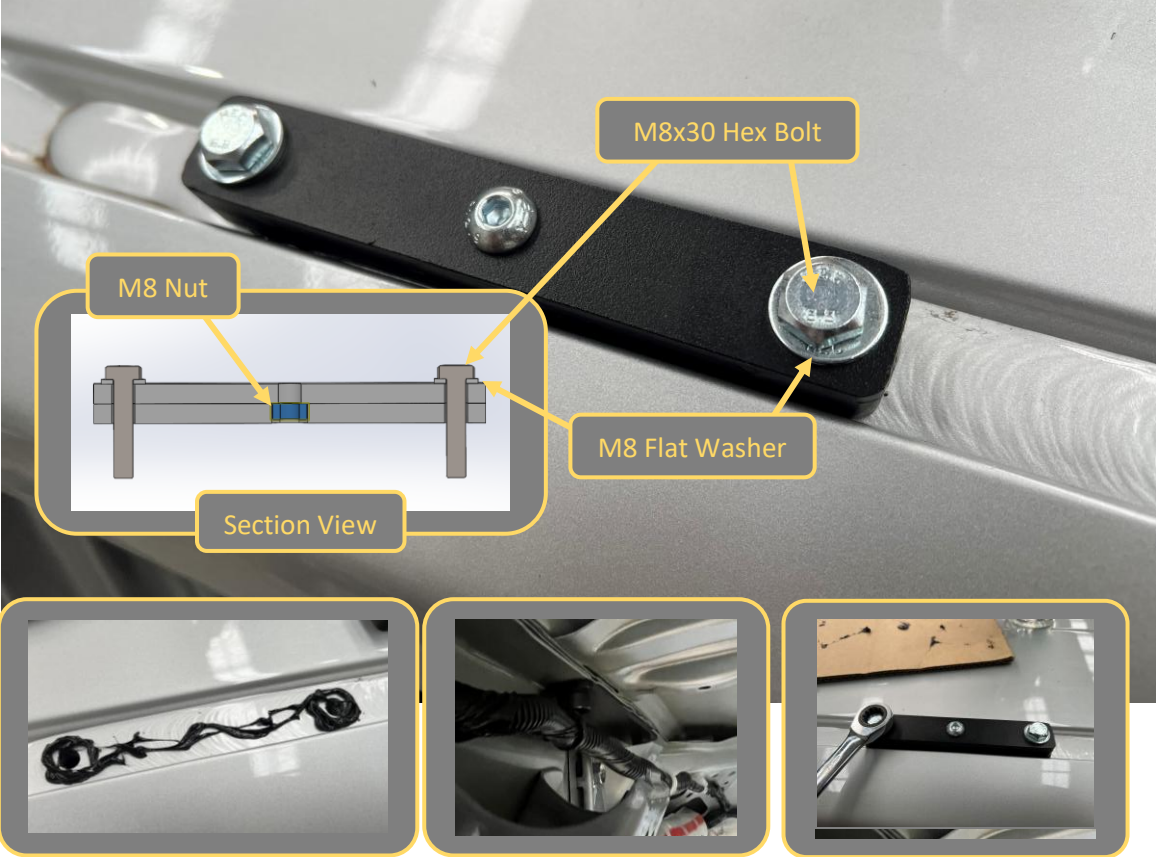
51. Complete for all four mounting points

52. Vacuum any swarf away from inside of cabin and on roof.

#### TOOLS REQUIRED

9mm drill bit  
Electric Drill  
Shop Vac

#### FASTENERS

	
<p>53. Complete following mounting steps sequentially for each mounting point.</p> <p>54. First, Prepare the mounting block, with the M8x30 Bolts, Flat washers and M8 nut in the nut recess. The M8 nut can be temporarily held in place using a M8x16 button head bolt for the mounting process.</p> <p>55. Apply automotive sealant around holes drilled, as shown in inset image.</p> <p>56. Place mounting block onto roof. Secure to nut plate held in place on underside of roof.</p> <p>57. Tighten mounting block progressively using 13mm socket or spanner. Ensure bolts are tightened evenly.</p>	<p><b>TOOLS REQUIRED</b></p> <p>Automotive Sealant 13mm Spanner / Socket</p> <p><b>FASTENERS</b></p> <p>2x M8x30 Bolts 2x M8 Flat washer 1x M8 Nut</p> <p>Per Block</p>



58. Complete previous page instructions for all 4 mounting points on the roof.

**TOOLS REQUIRED**

**FASTENERS**





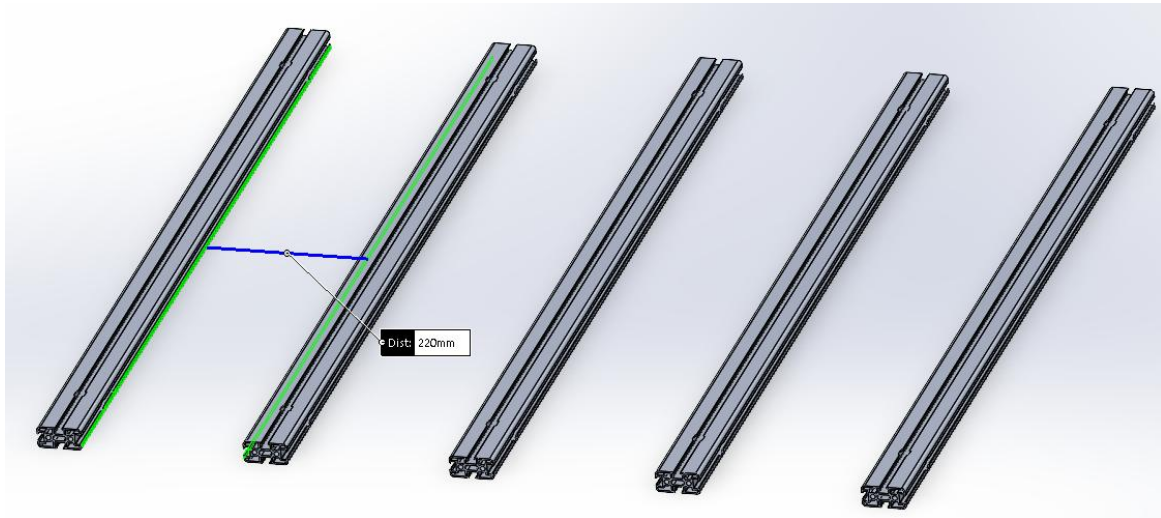
59. Once blocks are fitted, replace airbag inflators to correct positions and re-secure with factory bolts.
60. The roof liner can now be re-fitted. Re fitment procedure is the reverse of the removal. Re use all factory fasteners for re-fitment.
61. Pat yourself on the back! That is the scary and difficult part done!!

#### TOOLS REQUIRED

10mm Socket  
Phillips Screwdriver

#### FASTENERS

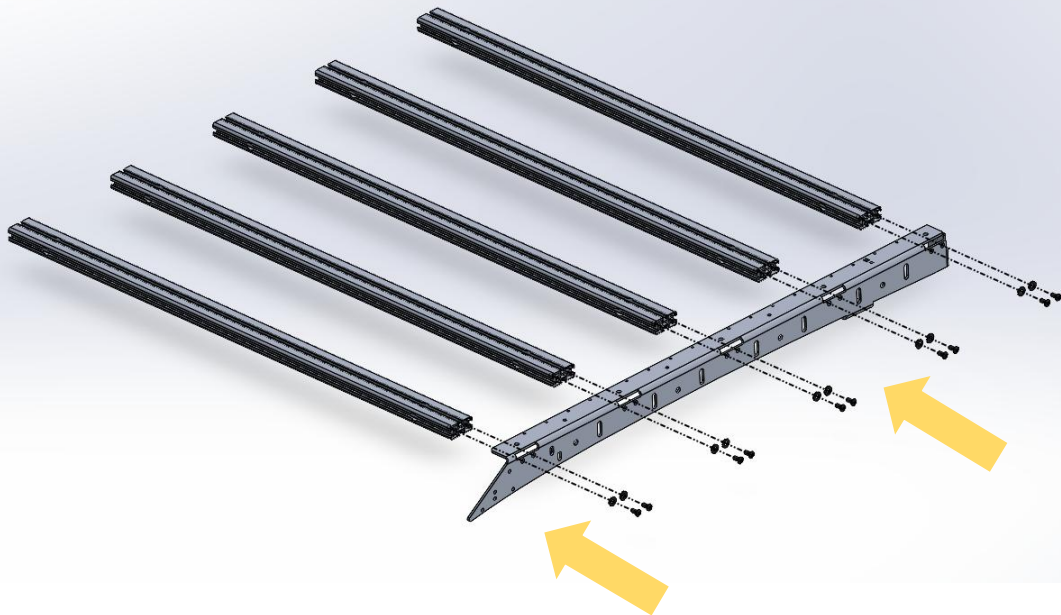
Re- Use Factory



62. Next Assemble the roof rack. Start by setting out the 5 extrusions on a table. Position them so they sit approximately 220mm apart.

#### TOOLS REQUIRED

#### FASTENERS



63. 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 / workbench.

64. Secure using M8x16 Button Head bolts through the side face into the Tapped holes on the side face of the extrusion.

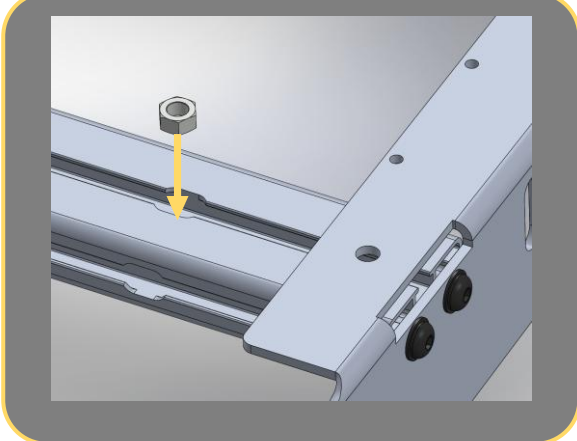
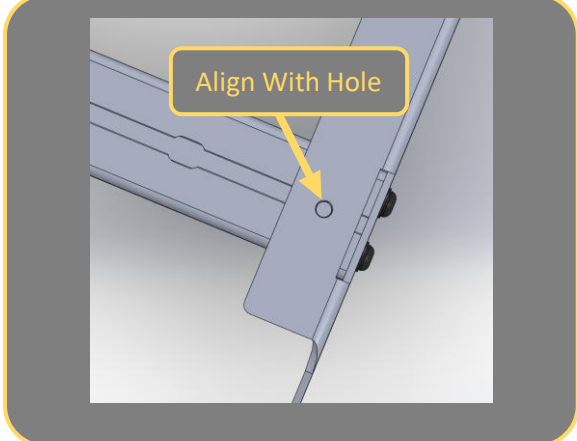
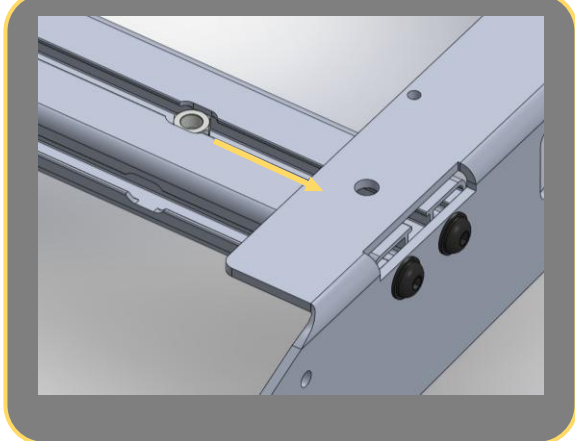
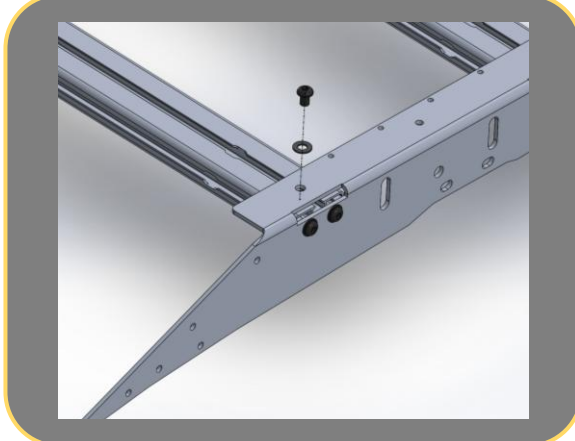
65. Complete steps 63 through 64 for the other side of the rack assembly to fit the other side rail.

#### TOOLS REQUIRED

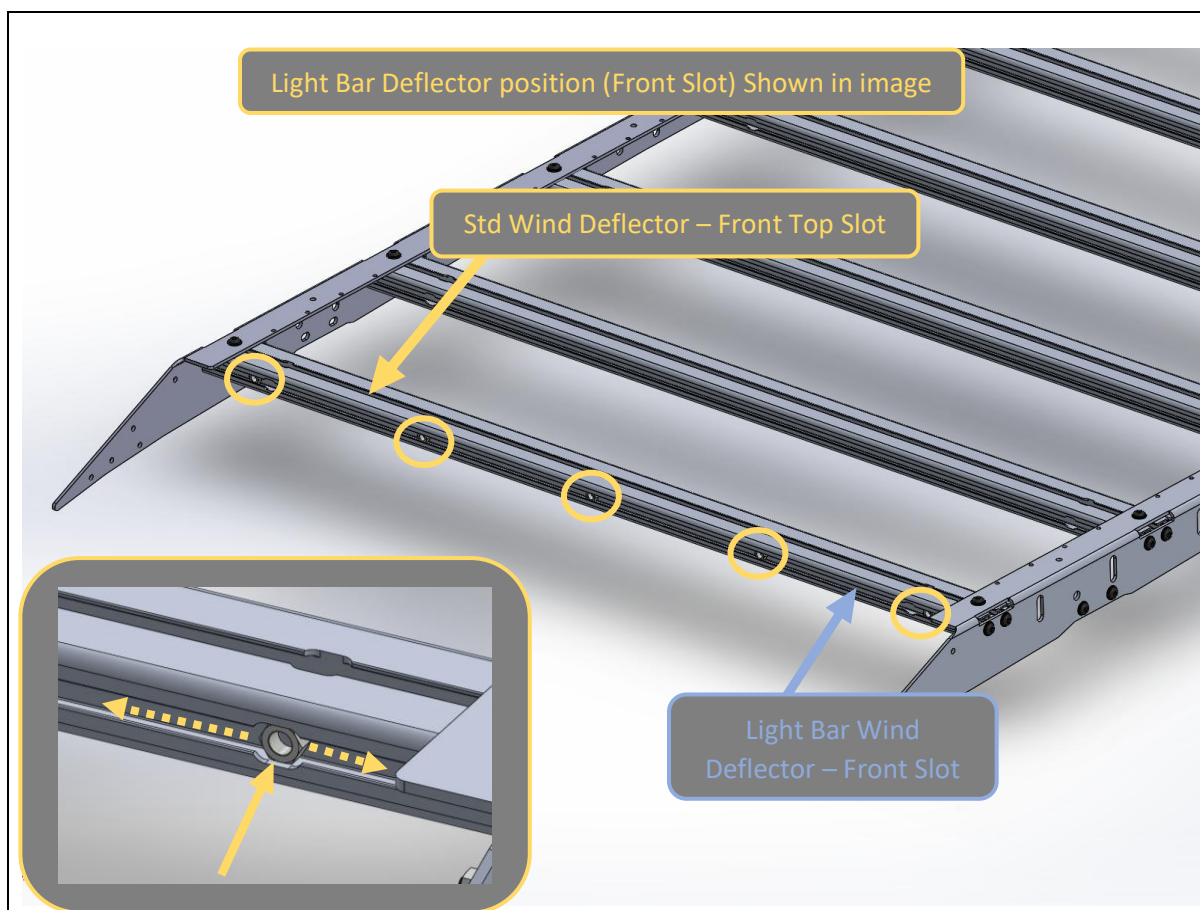
5mm Hex Key

#### FASTENERS

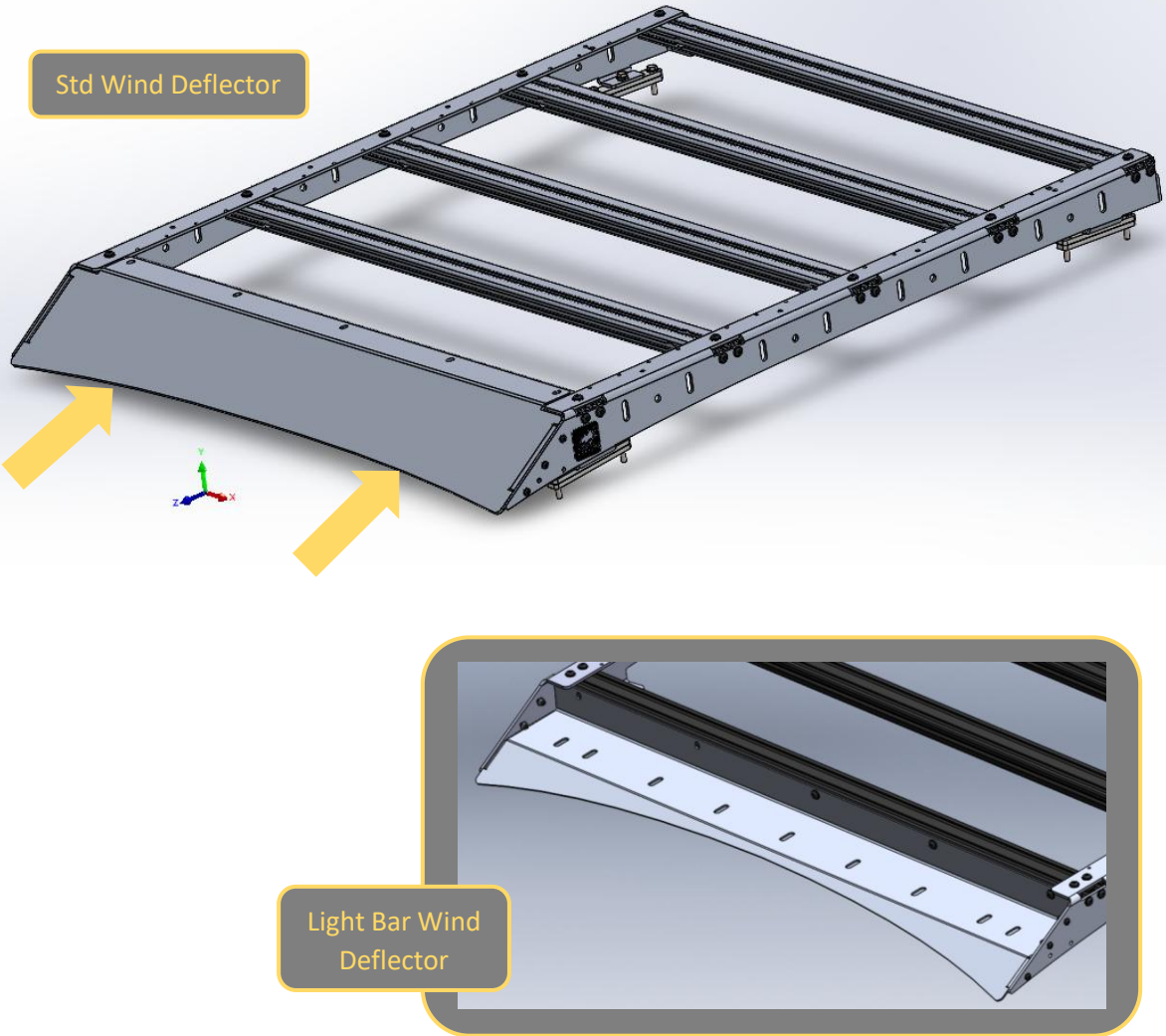
10x M8x16 Black Button head bolt.  
10x M8 Black HD Flat Washer

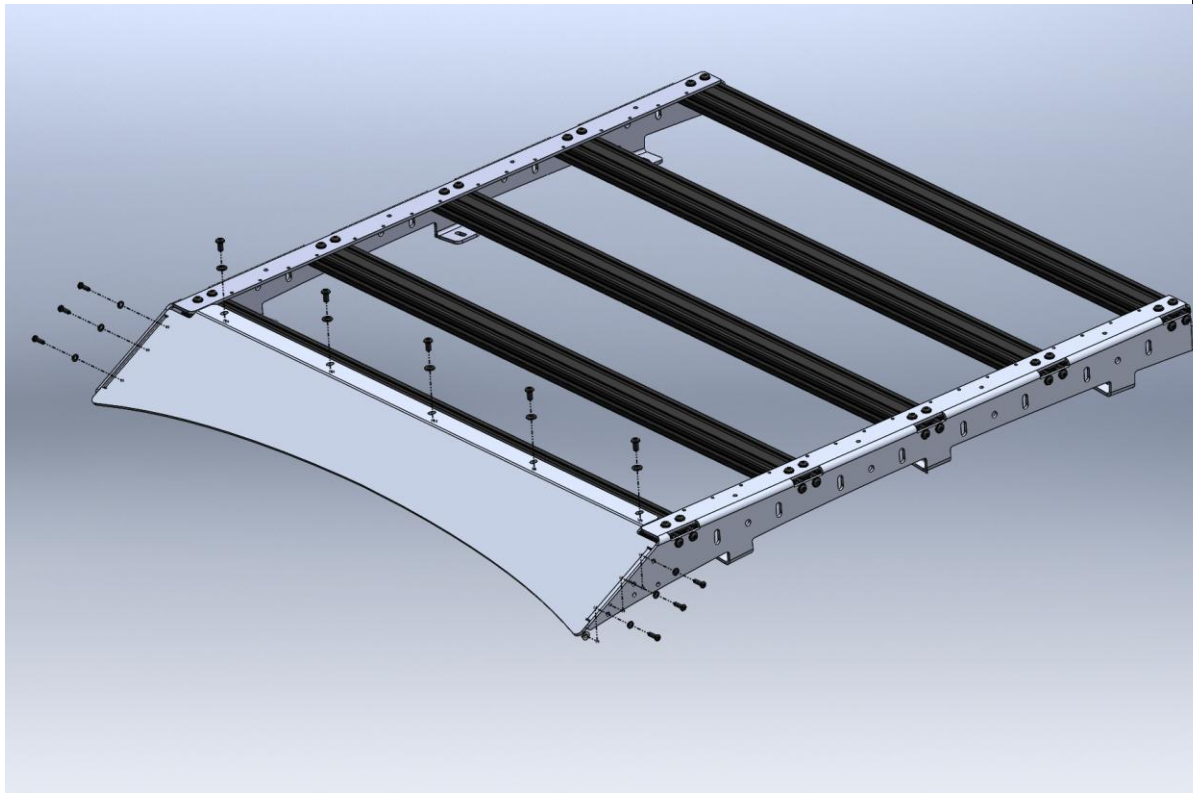
 	 
<p>66. Insert M8 Nut into each track for securing top face of side rail.</p> <p>67. Drop nut into slot in extrusion, then slide nut sideways in slot and align with hole in the side rail.</p> <p>68. Secure with M8x16 Bolt + Flat Washer.</p> <p>69. Complete steps 66 through 69 for the other side of the rack assembly to fit the other side rail.</p>	<p><b>TOOLS REQUIRED</b></p> <p>5mm Allen Key</p> <p><b>FASTENERS</b></p> <p>5x M8 Nuts 5x M8x16 Button head bolt 5x M8 Black Washer</p> <p>Per Side</p>





<p>70. If fitting the standard wind deflector fit the 5x M8 nuts to the top front slot of the front most extrusion member.</p> <p>71. Move nuts side to side using screwdriver to move nuts into correct positions. Gravity should hold the nut in position.</p>	<p><b>TOOLS REQUIRED</b></p> <p>Screwdriver</p>
<p>72. If fitting the optional light bar wind deflector, fit the nuts to the front slot of the front first extrusion member.</p>	<p><b>FASTENERS</b></p> <p>5x M8 Nuts</p>

		
<p>73. Fit the wind deflector to the rack assembly. The deflector should sit inside the side rails and on top of (Standard type) or in front (Light bar type) the first extrusion member.</p>	<p><b>TOOLS REQUIRED</b></p>	
	<p><b>FASTENERS</b></p>	



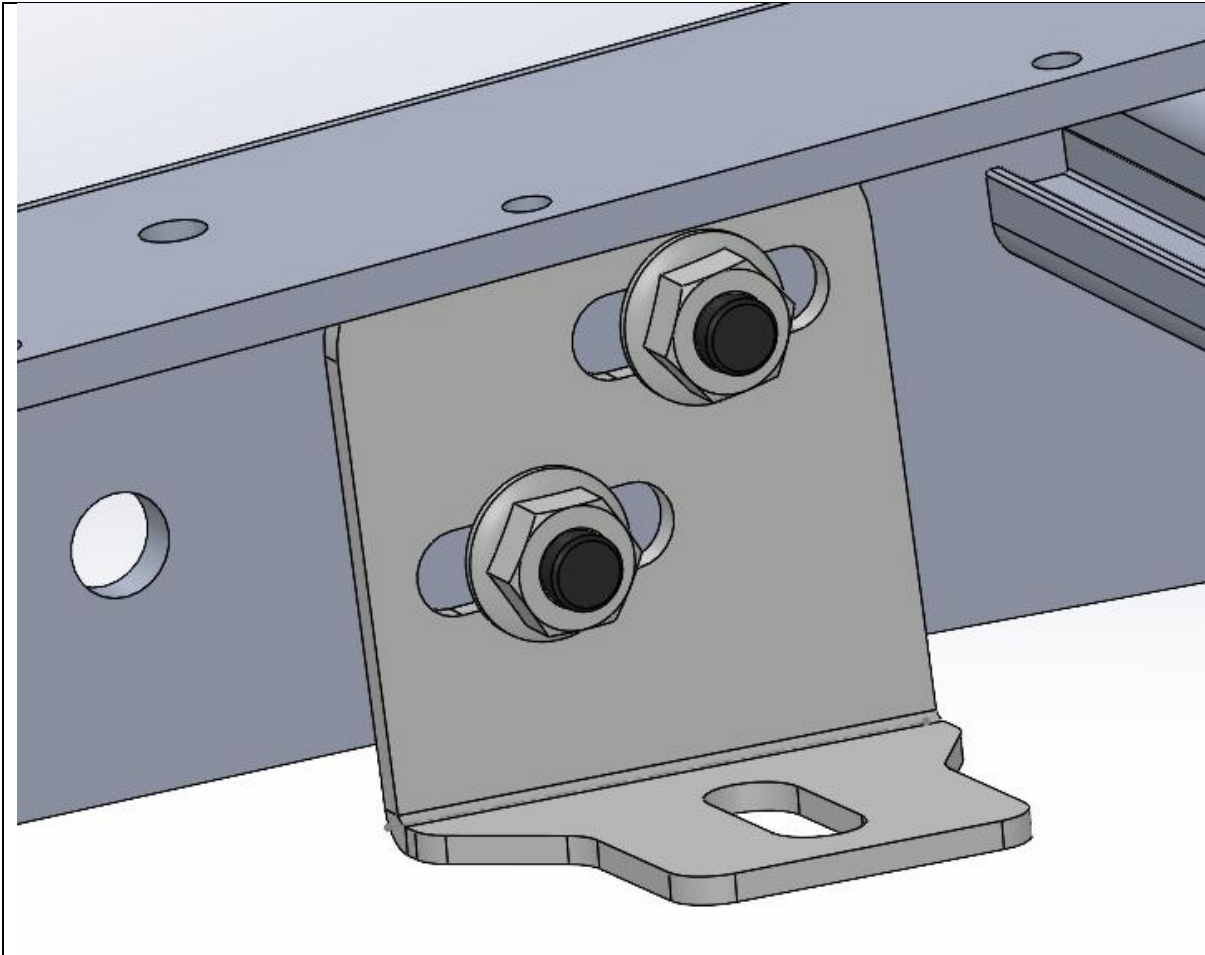
74. Secure the wind deflector to the side rails with M6x16 button head bolts, Flat washers, and flange nuts.
75. Secure the wind deflector to the extrusion with M8x16 button head bolts and Flat washers into the nuts in the front extrusion.
76. Once fitted ensure all bolts are tightened.

#### TOOLS REQUIRED

4mm Hex Key  
5mm Hex Key

#### FASTENERS

6x M6x16 Button head bolt.  
6x M6 Flat Washer  
6x M6 Flange Nut  
5x M8x16 Button head bolt  
5x M8 Flat Washer



77. Fit the front mounting brackets to the rack using M8x20 Button head screws, Flat washers, and Flange nuts

78. Leave finger tight at this stage.

#### TOOLS REQUIRED

#### FASTENERS



79. With assistance from another person, lift the rack onto the vehicle.

80. Position rack such that the rack feet sit upon the mounting blocks and align with the central M8 Nuts. Adjust front mounts as required to align.

81. Secure rack to track using M8x20 Hex head bolts (front) M8x25 (Back) and M8 Flat & Spring washers.

82. Tighten gradually, partially tightening each bolt moving around in a circular pattern until all bolts are tight.

#### TOOLS REQUIRED

13mm Spanner

#### FASTENERS

2x M8x20 Hex Bolt  
2xM8X25 Hex Bolt  
4x M8 HD Flat Washer  
4x M8 Spring Washer





83. Level out rack relative to roof and tighten the M8x20 Button head bolts securing the front mounting brackets.

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

#### TOOLS REQUIRED

5mm Hex Key

#### FASTENERS



85. Double Check all Fasteners are tight.
86. Fit the Offroad Animal logo plates to the side of the rack near the wind deflector, one each side.
87. With That you are done! Head Bush and Enjoy your new rack!

**For contact details see [www.offroadanimal.com](http://www.offroadanimal.com)**