



Isuzu D-MAX / Mazda BT-50 2021+ on 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.

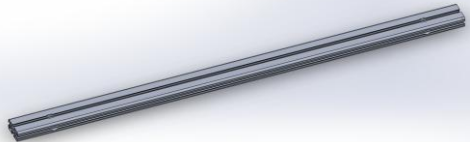
FRONT BAR MOUNTS AND TOW POINTS + REAR TOWBAR	
Size	Torque Nm
M10	57 Nm
M12	100 Nm
M14	164 Nm
M16	248 Nm

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.

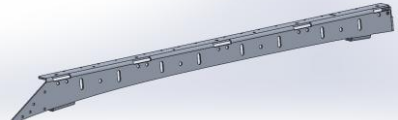
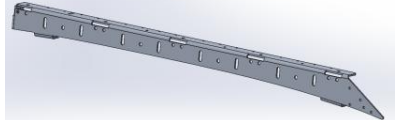
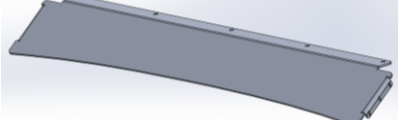
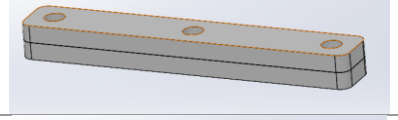
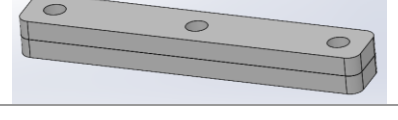
PARTS LISTING

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

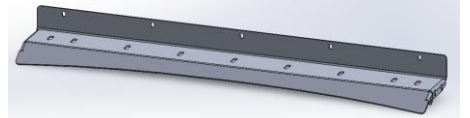
Main Parts – Cross Rail Kit

Qty	Part Number	Description	Image
5	E-0005 - 1150	Scout Roof Rack – Cross Bar Extrusion 1150MM	

Main Parts – Main Fitting Kit

Qty	Part Number	Description	Image
1	B-0540L	DMAX 21+ Scout Roof Rack Side Rail	
1	B-0540R	DMAX 21+ Scout Roof Rack Side Rail	
1	B-0541	DMAX 21+ Scout Roof Rack Standard Wind Deflector	
2	RR-IDM-RG-21-SCT-ASM2	DMAX Scout Rack - Front Mounting Block	
2	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-0542	DMAX 21+ Scout Roof Rack Light Bar Wind Deflector	



Small Parts – Contained in Small Parts Kit Bag

QTY.	PART NO.	DESCRIPTION
37	M8 FLAT WASHER- BLACK ZINC	M8 FW- BLACK ZINC
22	M8 NUT	Hex Nut, M8x1.25 G8.8 ZP
37	M8 X 16 BHCS BZP	SCREW, BUTTON HEAD CAP, M8X16X1.25 GR12.9 BLACK ZP
4	M8 X 25 HEX	Bolt Hex, M8X25x1.25, GR8.8 ZP
8	M8 X 40 HEX	Bolt Hex, M8X40X1.25, GR8.8 ZP
12	M8 HD FLAT WASHER	M8 FLAT WASHER - High Tensile 19x8x1.9mm
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
4	M8 SPRING WASHER	M8 SPLIT SPRING WASHER - High Tensile 14.8OD 2mm Thick
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 Tape Measure Cold Chisel Hammer		Soft Blanket Automotive grade 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>

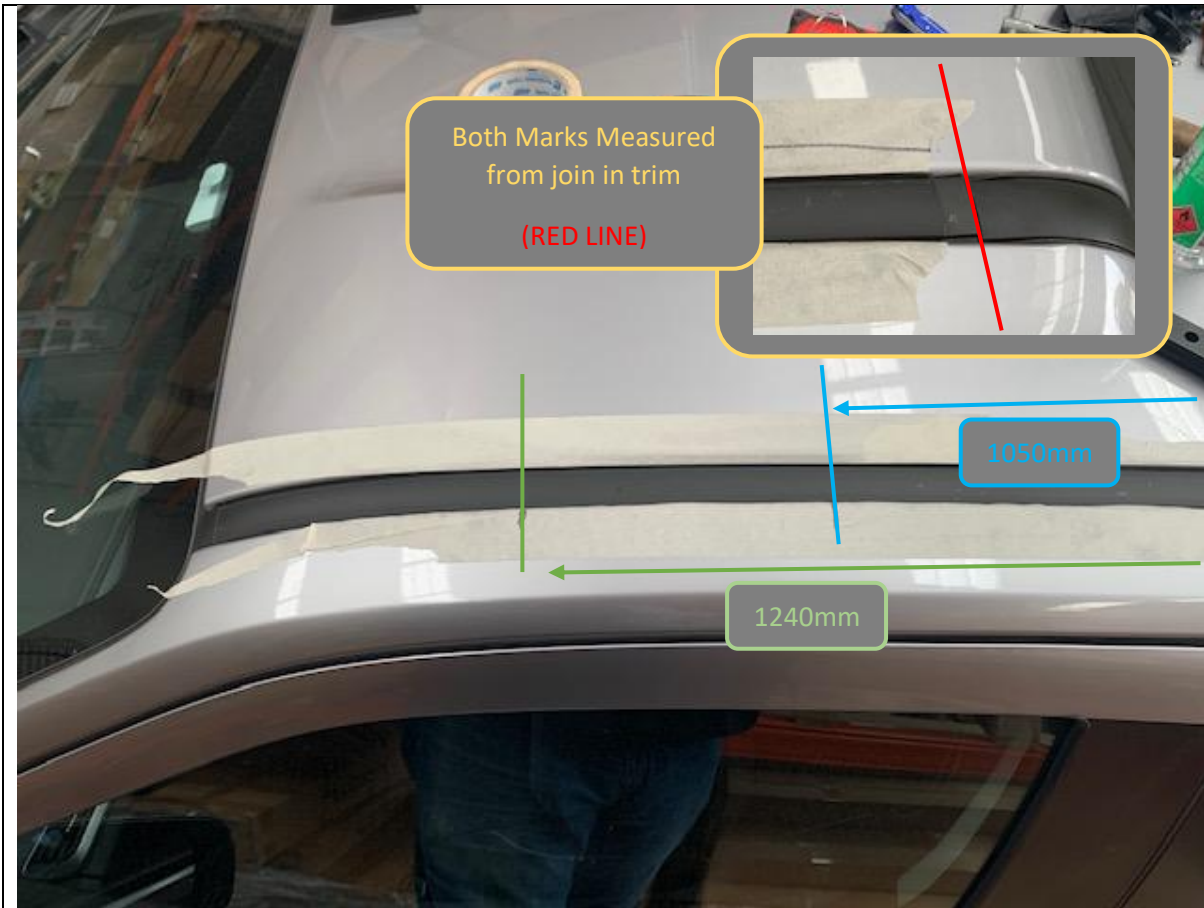


1. Place masking tape on the roof adjacent to the rubber roof trim.
2. Measure and mark a point 185mm from the join in the roof rubber for the rear mounting block.

TOOLS REQUIRED

Masking Tape
Pen / Marker
Tape Measure

FASTENERS



3. First, place masking tape on the roof adjacent to the rubber roof trim.

4. Measure and mark the two points shown for the front and rear cuts for the front mount on the rubber roof trim.

Measure from the same point at the join of the trim piece near the rear of the car.

5. Repeat for front mounting point on opposite side of vehicle.

TOOLS REQUIRED

Masking Tape
Pen / Marker
Tape Measure

FASTENERS



6. Using a cold chisel, carefully strike the roof rubbers at the front and rear points measured earlier. These initial strikes should be reasonably gentle such that they cut the rubber and score the metal strip embedded within.

IMPORTANT: Take extra care to avoid touching the roof sheet metal when completing this step

7. Strike an additional location halfway between the two marks. This strike should be harder than the outside points and cut through both the top rubber layer and the metal strip within the roof rubber.

TOOLS REQUIRED

Cold Chisel
Hammer

FASTENERS

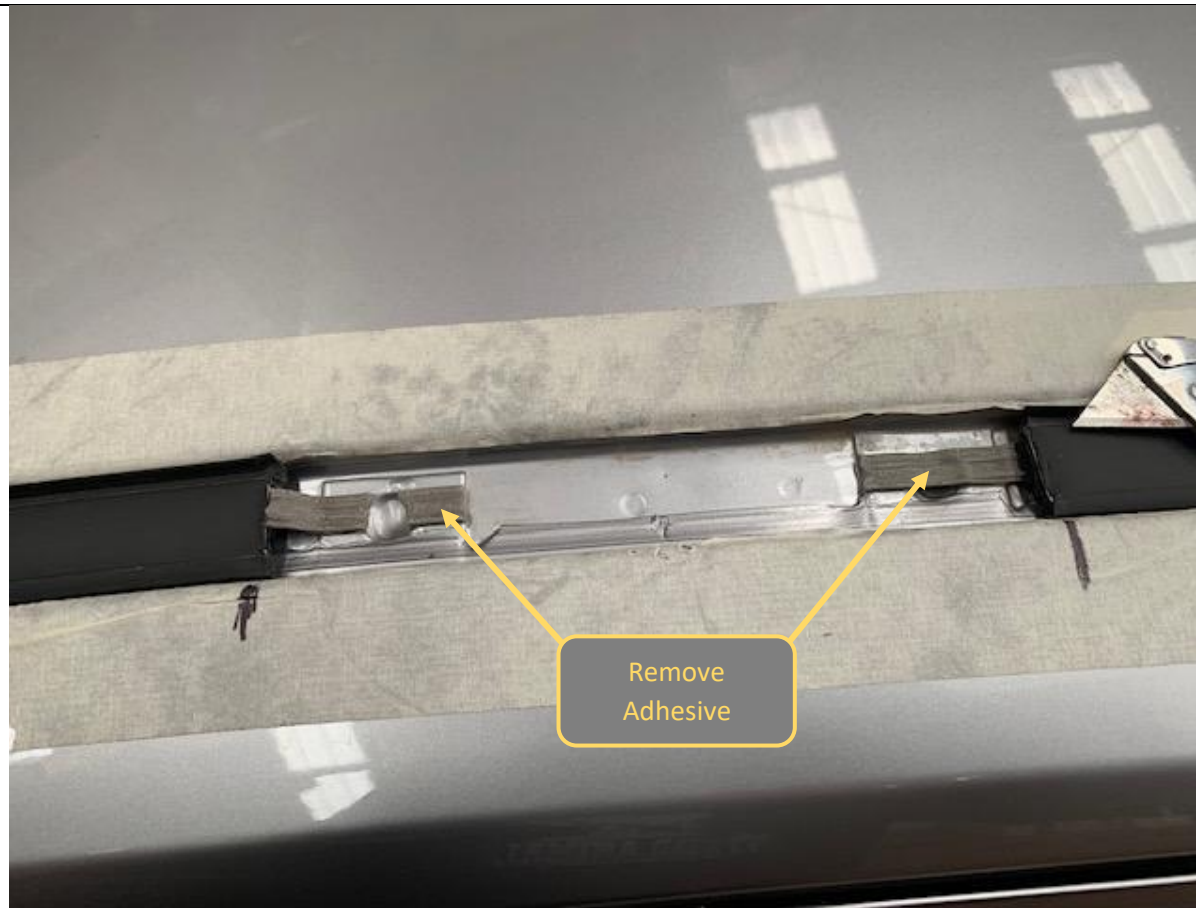


8. Using a flat screwdriver lever up the roof trim rubber from the central cut made before to separate trim from the adhesive securing to the roof.
9. Flex each side of the roof rubber repeatedly along the score marks made earlier, until the metal strip inside breaks off. Finish cut with utility knife and remove rubber trim.
10. Complete the trim removal process Steps 6-9 for all four roof mounting points.

TOOLS REQUIRED

Flat Screwdriver

FASTENERS



11. Carefully Remove the remaining adhesive tape, using a utility knife.

12. Complete for all four mounting points.

TOOLS REQUIRED

Utility Knife

FASTENERS



13. Using a small screwdriver or pick, push through the factory sealant patches covering the threaded mounting points in the roof.

These areas are visible as the small circular depressions in the raised square patches.

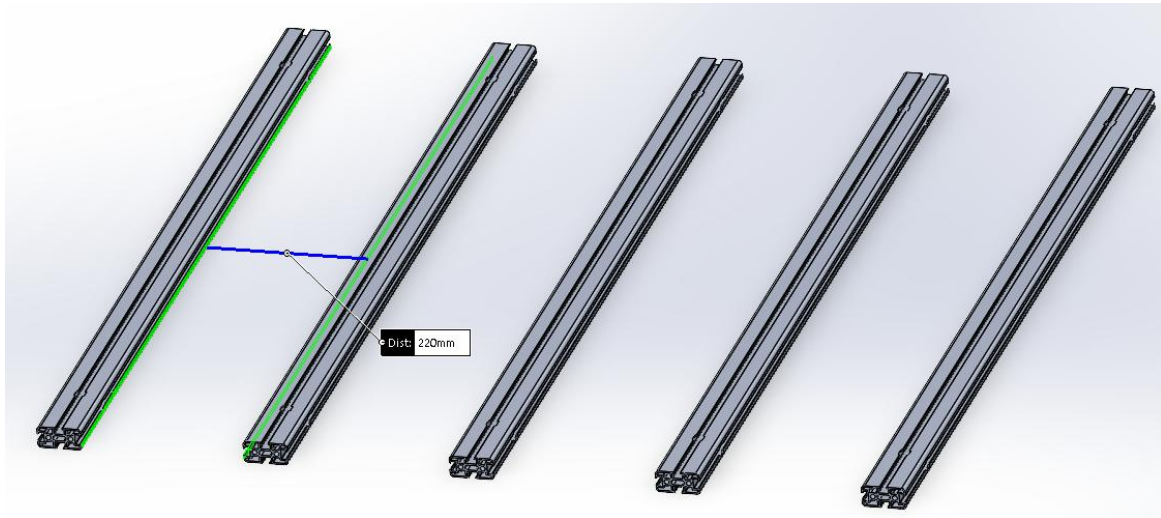
14. Clear out as much of the sealant patch as possible using a utility knife. Thread an M8 bolt down each of the exposed threaded inserts to ensure they run freely and there is no sealant blocking the threads.

TOOLS REQUIRED

Screwdriver

FASTENERS

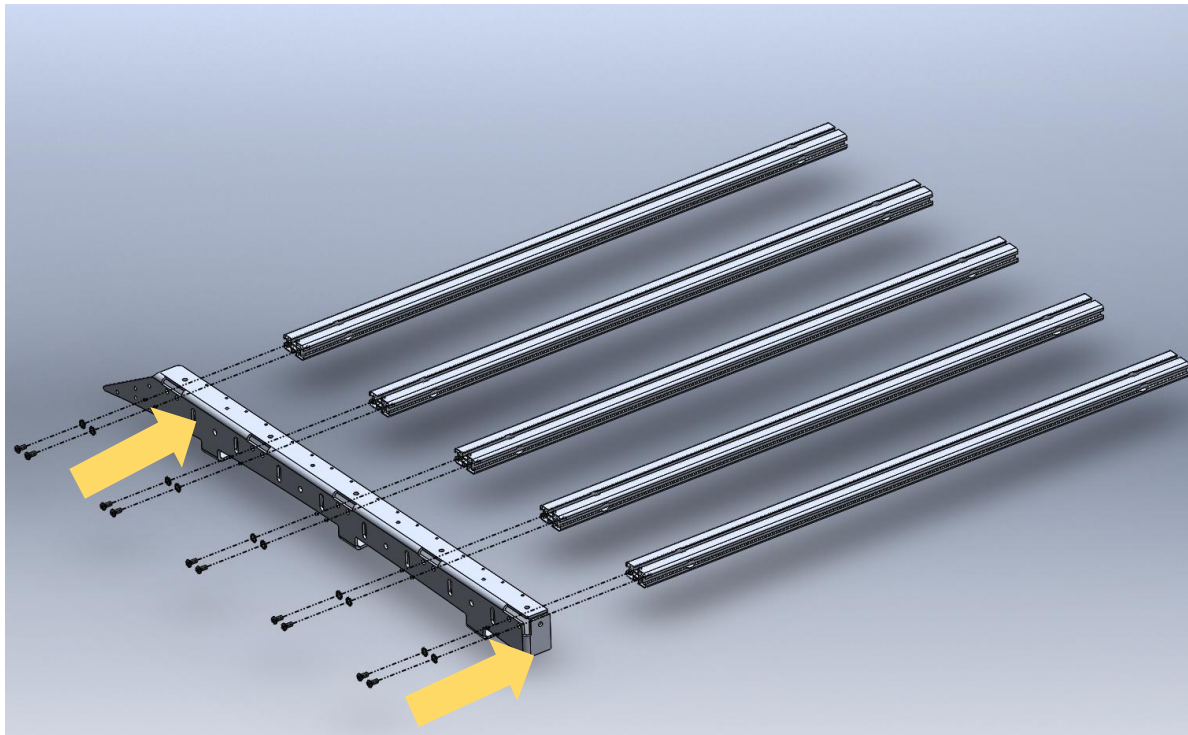
M8 bolt



15. 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



16. 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.

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

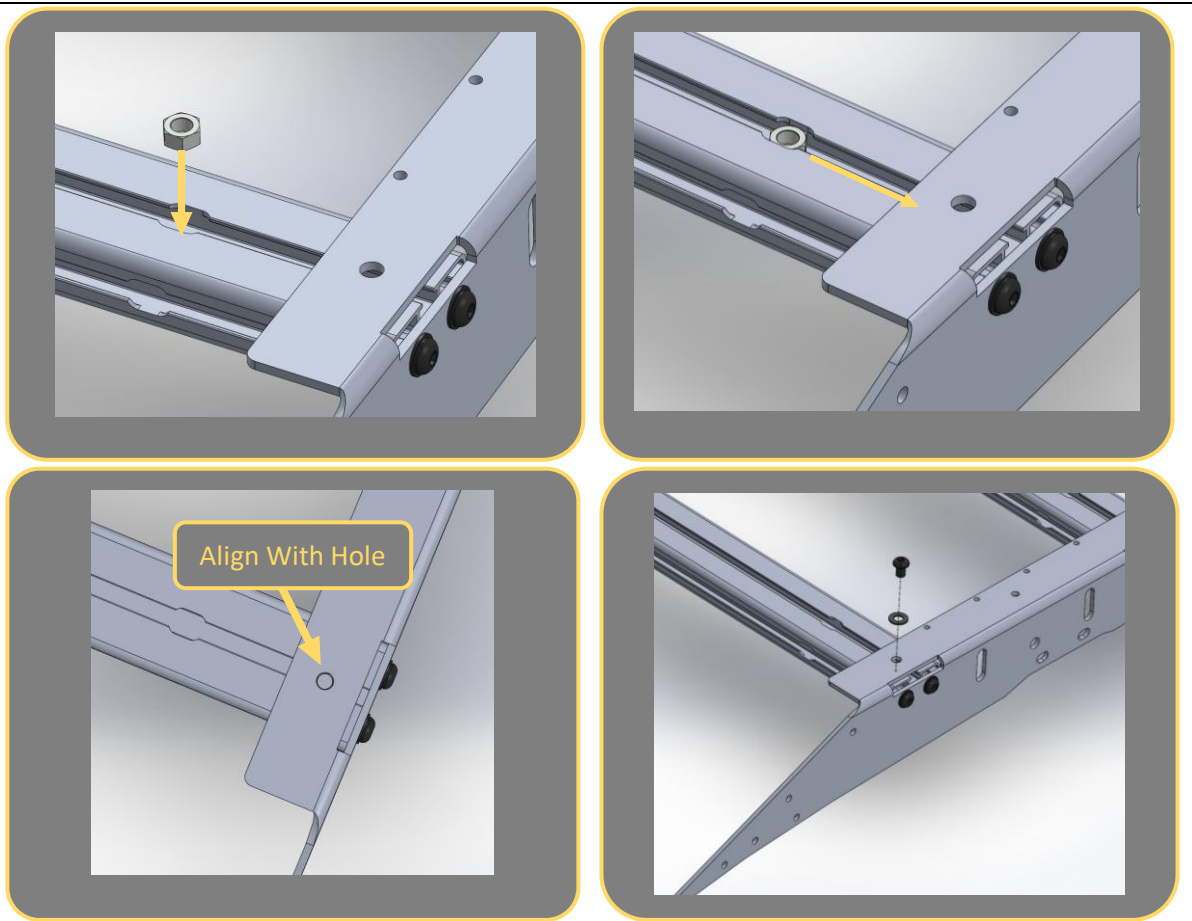
18. Complete steps 16 through 18 for the other side of the rack assembly to fit the other side rail.

TOOLS REQUIRED

5mm Hex Key

FASTENERS

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



19. Insert M8 Nut into each track for securing top face of side rail.
20. Drop nut into slot in extrusion, then slide nut sideways in slot and align with hole in the side rail.
21. Secure with M8x16 Bolt + Flat Washer.
22. Complete steps 19 through 21 for the other side of the rack assembly to fit the other side rail.

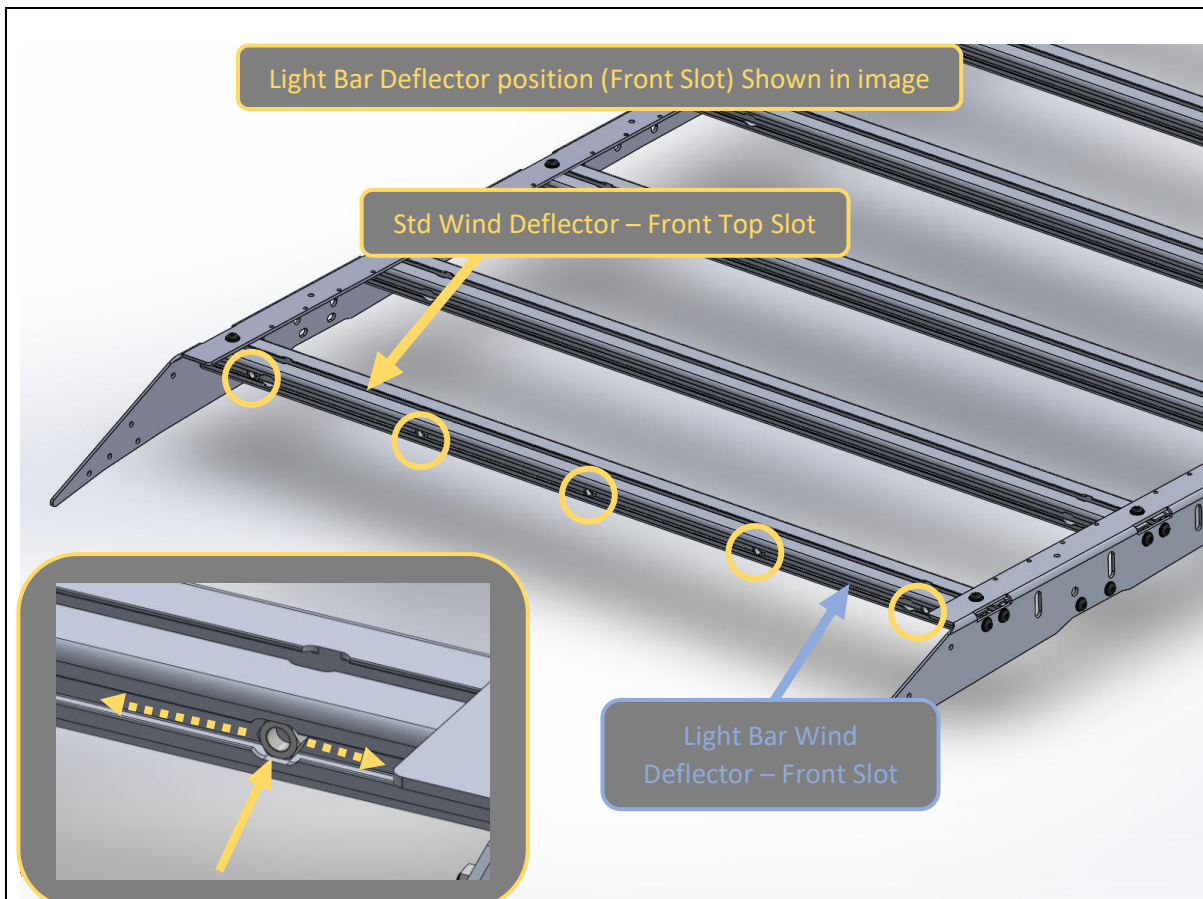
TOOLS REQUIRED

5mm Allen Key

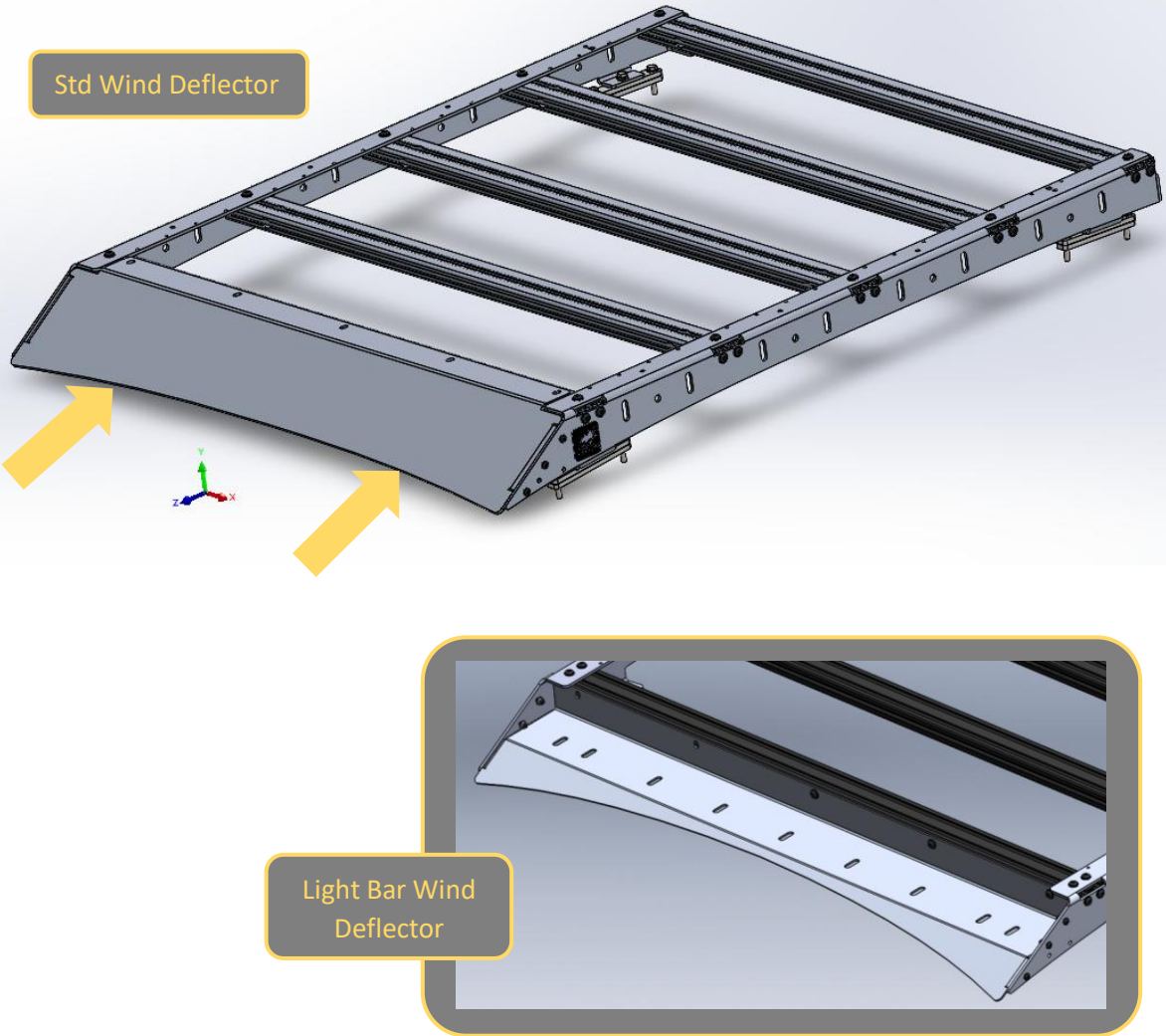
FASTENERS

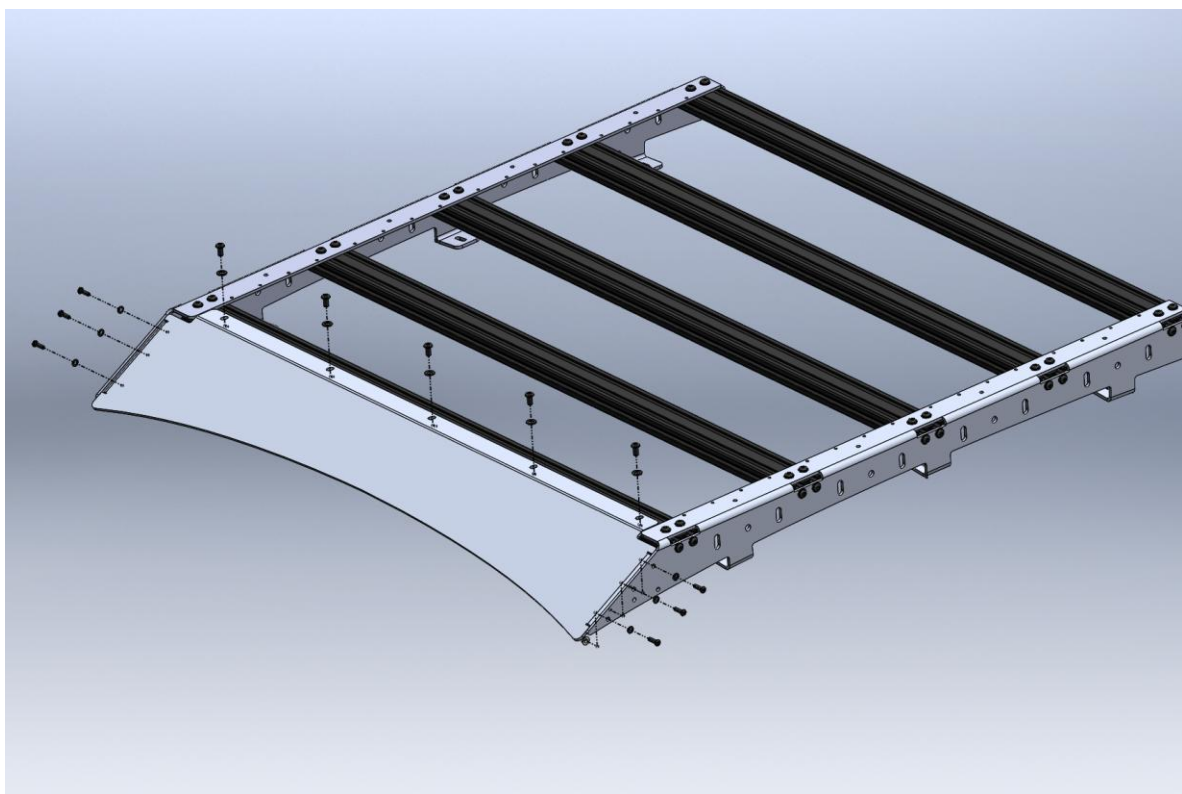
5x M8 Nuts
5x M8x16 Button head bolt
5x M8 Black Washer

Per Side



<p>23. If fitting the standard wind deflector fit the 5x M8 nuts to the top front slot of the front most extrusion member.</p> <p>24. Move nuts side to side using screwdriver to move nuts into correct positions. Gravity should hold the nut in position.</p>	<p>TOOLS REQUIRED</p> <p>Screwdriver</p>
<p>25. If fitting the optional light bar wind deflector, fit the nuts to the front slot of the front first extrusion member.</p>	<p>FASTENERS</p> <p>5x M8 Nuts</p>

	
<p>26. 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>TOOLS REQUIRED</p>
	<p>FASTENERS</p>



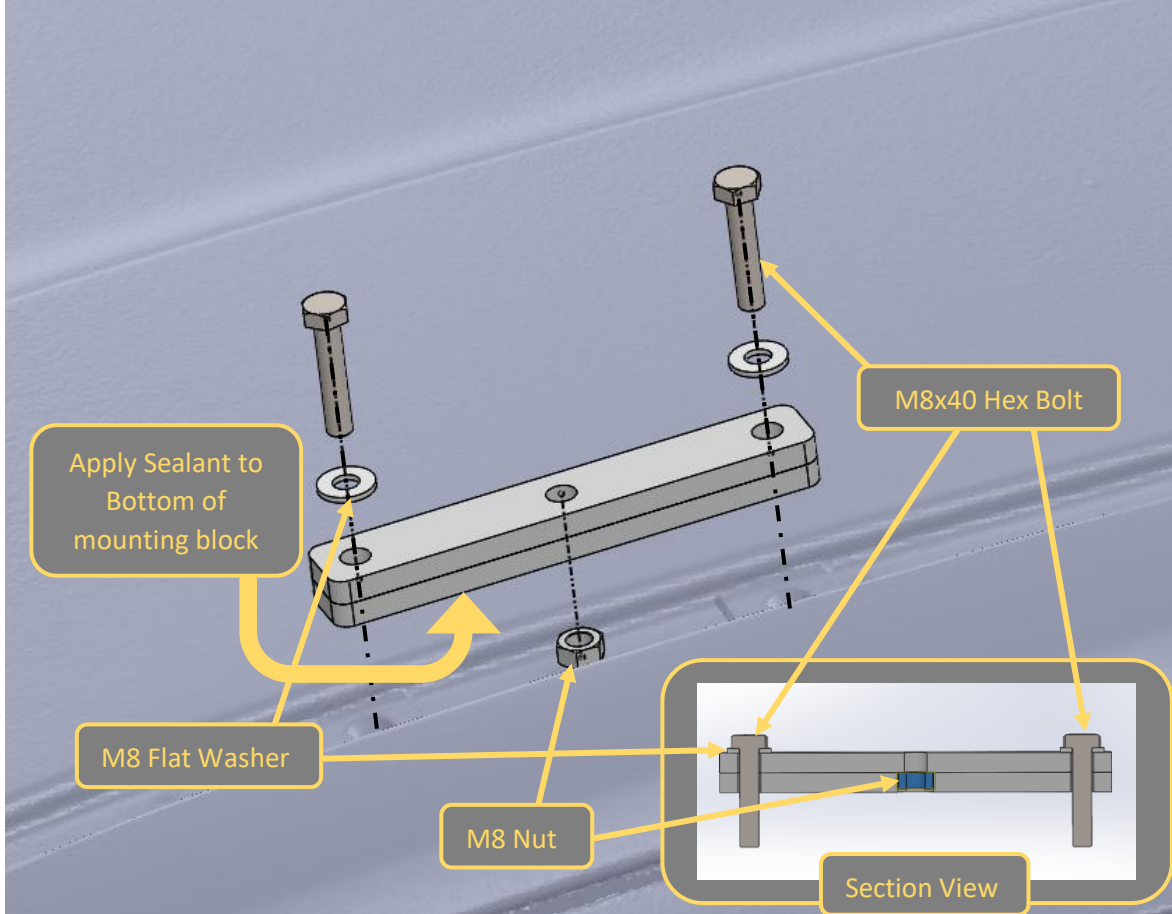
27. Secure the wind deflector to the side rails with M6x16 button head bolts, Flat washers, and flange nuts.
28. Secure the wind deflector to the extrusion with M8x16 button head bolts and Flat washers into the nuts in the front extrusion.
29. Once fitted ensure all bolts are tightened.

TOOLS REQUIRED

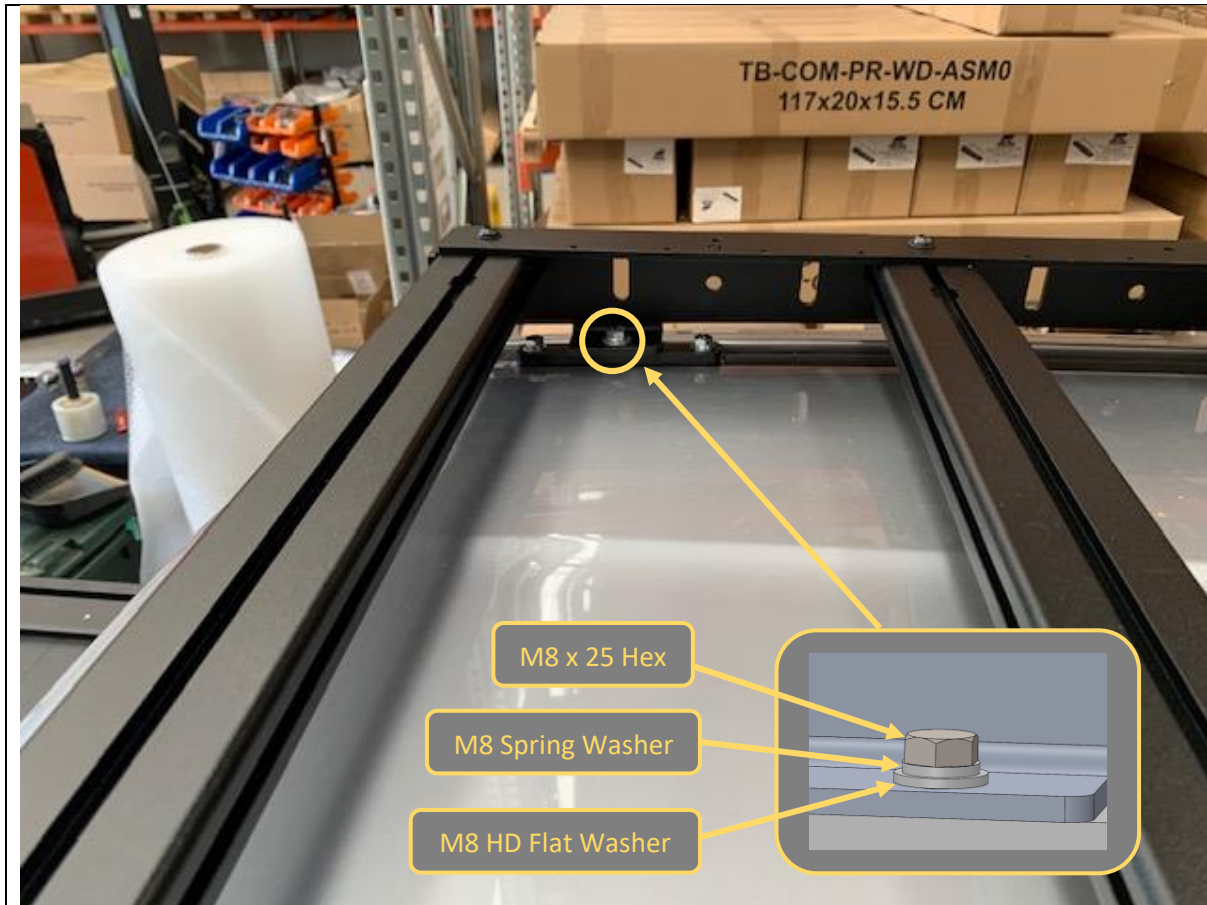
4mm Hex Key
5mm Hex Key

FASTENERS

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



<ol style="list-style-type: none"> 30. Fit the mounting blocks to the fixed roof mounts on the vehicle. The mounts have different hole spacing front (135mm) and rear (120mm). 31. Apply Automotive Grade sealant to the bottom face of the mounting block (side with hexagonal cutout) 32. Locate M8 nut into the Hexagonal Cutout on bottom of the block 33. Place block over mounting points and secure with M8x40 Hex bolts and M8 Flat washers. Tighten gradually, partially tightening each bolt and alternating until both bolts are tight. 34. Complete for all mounting points on roof. 	<p>TOOLS REQUIRED</p> <p>13 mm Spanner / Socket</p> <p>FASTENERS</p> <p>2x M8x40 Hex Bolt 2x M8 Flat Washer HD 1x M8 Nut</p>
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35. With assistance from another person, lift the rack onto the vehicle.
36. Position rack such that the rack feet sit upon the mounting blocks and align with the central M8 Nuts.
37. Secure rack to track using M8x25 Hex head bolts and M8 Flat & Spring washers.
38. Tighten gradually, partially tightening each bolt moving around in a circular pattern until all bolts are tight.

TOOLS REQUIRED

13mm Spanner

FASTENERS

4x M8x25 Hex Bolt
4x M8 HD Flat Washer
4x M8 Spring Washer



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

For contact details see www.offroadanimal.com