



CHEVROLET SILVERADO 1500

4th Gen 2019+

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.

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.

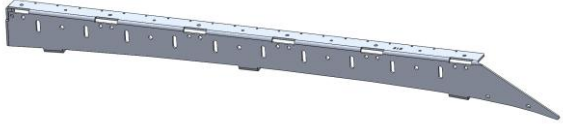
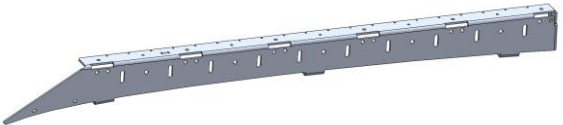
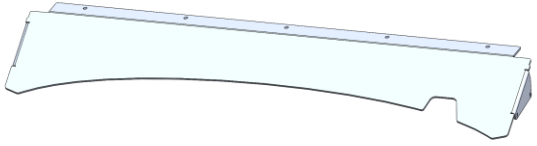
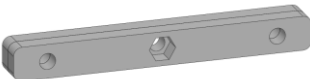
FRONT BAR MOUNTS AND TOW POINTS + REAR TOWBAR	
Size	Torque Nm
M10	57 Nm
M12	100 Nm
M14	164 Nm
M16	248 Nm

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.

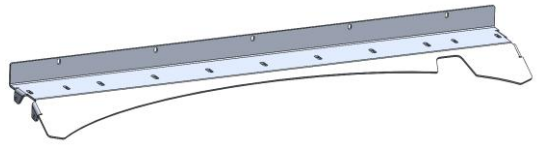
PARTS LISTING

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

Parts – In the Main Box

Qty	Part Number	Description	Image
1	B-1051R	Silverado 1500 Scout Rack Side	
1	B-1051L	Silverado 1500 Scout Rack Side	
1	B-1052	Silverado 1500 Wind Deflector	
6	RR-S15-T1-20-SCT-ASM2	Silverado 1500 Scout Rack - Mounting Block	
2	OFA-LOGO	Offroad Animal Metal Logo	

Optional Light Bar Kit – Purchased Separately

Qty	Part Number	Description	Image
1	B-1053	Silverado 1500 Light Bar Wind Deflector	

Cross Bar Kit

Qty	Part Number	Description	Image
6	E-0005-1340	Scout Roof Rack – Cross Bar Extrusion 1340MM	

Fasteners – Contained in Small Parts Kit Bag

Qty	Part Number	Description
4	M6x20 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M6X20X1 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH
4	M6 FLAT WASHER BLACK ZINC	M6 Flat Washer, 12x6.1x1, ISO4042 ZnNi BLACK PASSIVATED FINISH
4	M6 FLANGE NUT	Flange Nut, M6x1 G8.8 ZP
19	M8 X 16 BHCS BZP	SCREW, BUTTON HEAD CAP, M8X16X1.25 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH
24	M8 X 20 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M8X20X1.25, ISO4042 ZnNi BLACK PASSIVATED FINISH
6	M8 X 25 HEX	Bolt Hex, M8X25x1.25, GR8.8 ZP
12	M8 X 40 HEX	Bolt Hex, M8X40X1.25, GR8.8 ZP
43	M8 HD FLAT WASHER - BZP	M8 FLAT WASHER - High Tensile 19x8x2mm, ISO4042 ZnNi BLACK PASSIVATED FINISH
12	M8 FLAT WASHER	M8 FW
12	M8 SPRING WASHER	M8 SPLIT SPRING WASHER - High Tensile 14.8OD 2mm Thick
6	M8 FLANGE NUT	Flange Nut, M8x1.25 G8.8 ZP
19	M8 NUT	Hex Nut, M8x1.25 G8.8 ZP
12	M8 Nutsert Long Grip	M8 Nutsert/Rivet Nut - Grip Range 3.5-6.0

TOOLS REQUIRED

The following tools will be required to install the product.

Hand Tools	Power Tools	Workshop Equipment
13mm Metric Socket/Spanner	Electric/Air Impact Driver (Optional)	Soft Blanket
Socket Extension Bar	Electric Power Drill	Isopropyl Alcohol
Hex (Allen) Key Set 4-5mm	Air Hacksaw or Oscillating Multi Tool or Angle Grinder or Jigsaw	Rag
Trim Removal Tool		Non-Adhesive Automotive Grade Sealant
Plastic Auto Trim Tool Set		Masking Tape
Flat Blade Screwdriver Set		Marker Pen
Utility Knife		Measuring Tape
Side Cutters		Cutting Fluid
Pliers		
Centre Punch		
5/8/11mm Drill Bit (HSS Cobalt or stronger)		
9mm Drill Bit		
Deburring Tool		
Rivet Gun		

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.



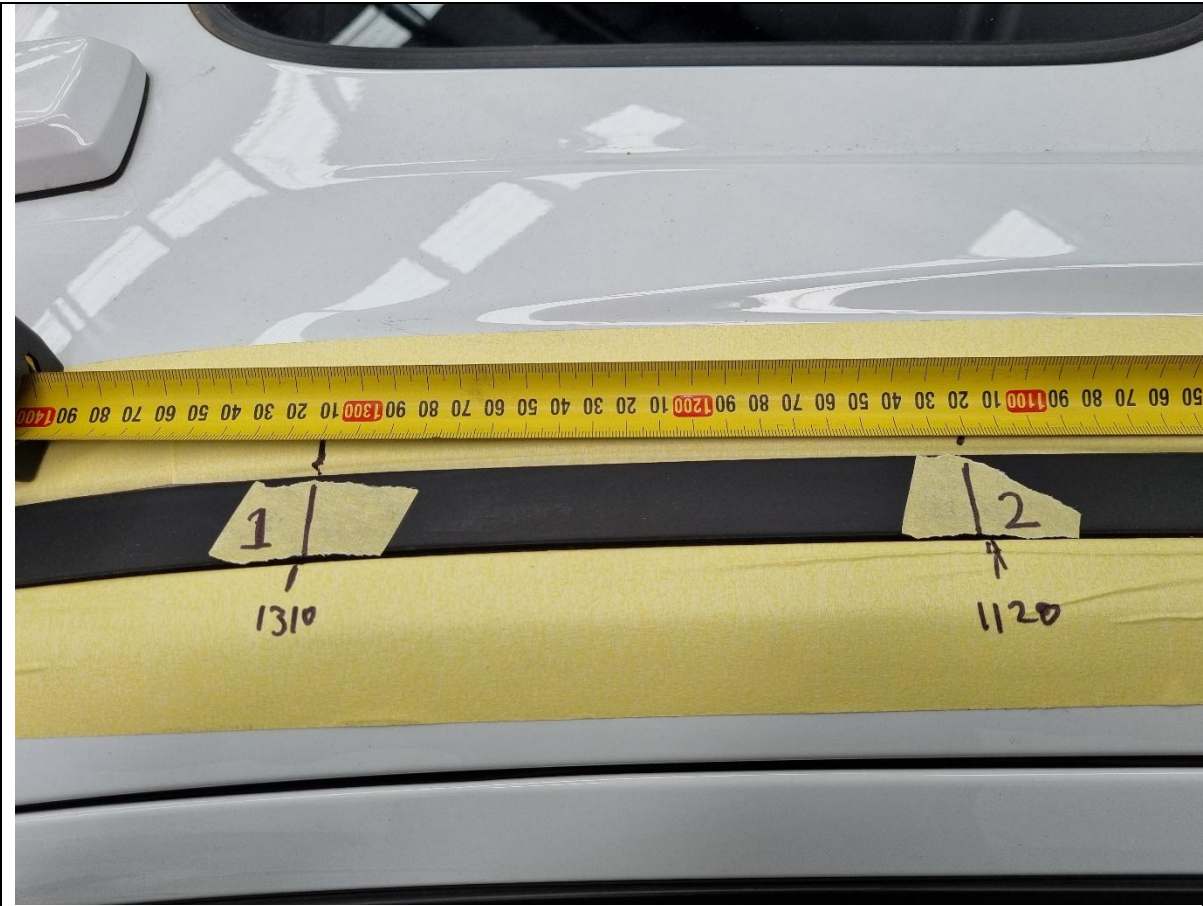
1. Place masking tape on the roof either side of the gutter trim pieces. 2. Place measuring tape along gutter trim, with the end aligned with the panel gap above the rear passenger doors.	TOOLS REQUIRED Masking Tape Measuring Tape
	FASTENERS



3. Mark a line at 30mm and another at 220mm. Mark on the black trim as well as the masking tape.	TOOLS REQUIRED Marker Pen
	FASTENERS



4. Mark the next set of lines at 555mm and 750mm.	TOOLS REQUIRED Marker Pen
	FASTENERS



5. Mark the next lines going forward at 1120mm and 1310mm.	TOOLS REQUIRED Marker Pen
	FASTENERS



6. Using a plastic trim tool or rag with a flat head screwdriver (take care not to scratch the roof paint) pry up the trim section all the way along.

The trim is held in place with clips onto ball studs in the roof gutter. It is easiest to pry and twist sideways (towards/away from centreline of vehicle).

7. If any clips separate, remove from the roof and refit onto the trim section.

TOOLS REQUIRED

Trim tool

Rag

FASTENERS



8. Using an angle grinder cut the trim piece length removing the marked sections.

TOOLS REQUIRED

Angle grinder with
cutting disc

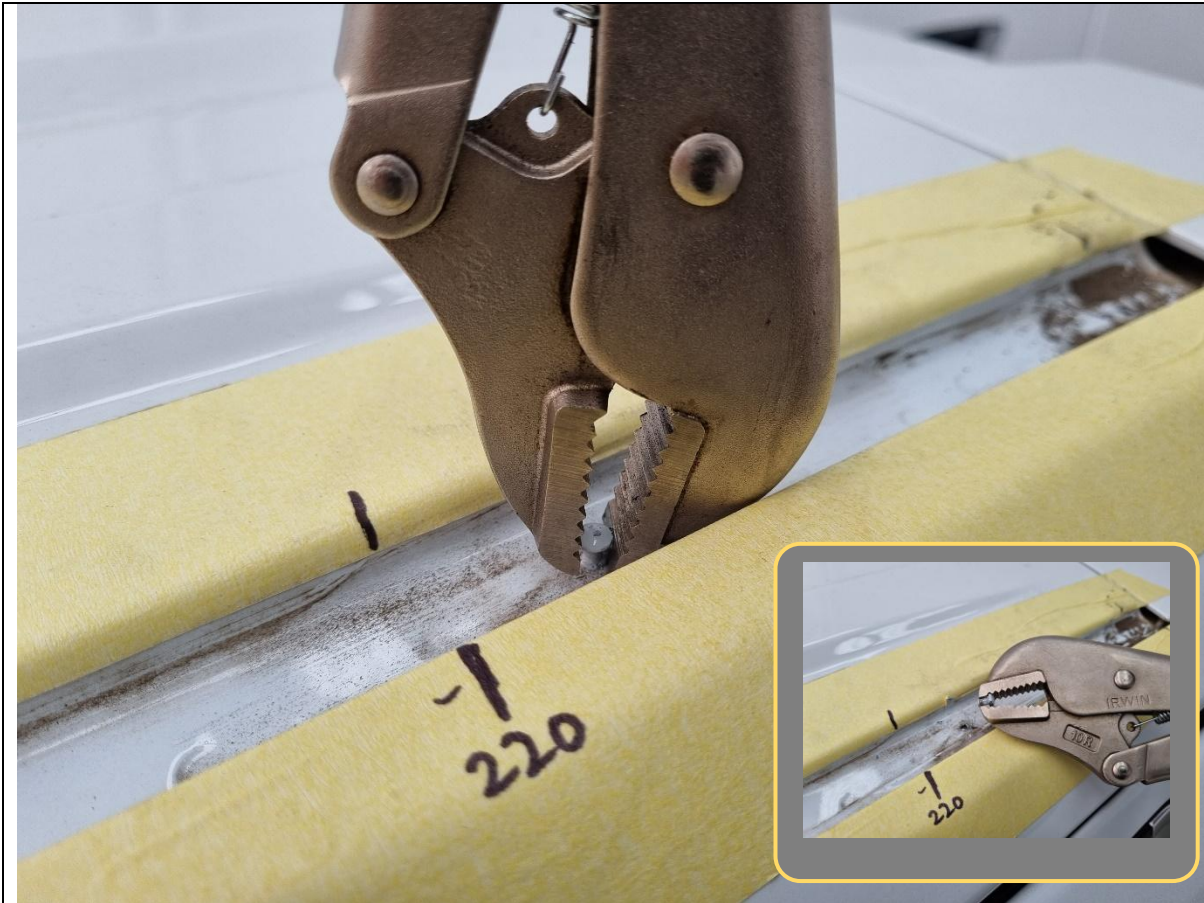
Safety glasses

Hearing protection

FASTENERS



9. Refit the trim as shown leaving the marked sections bare.	TOOLS REQUIRED
	FASTENERS

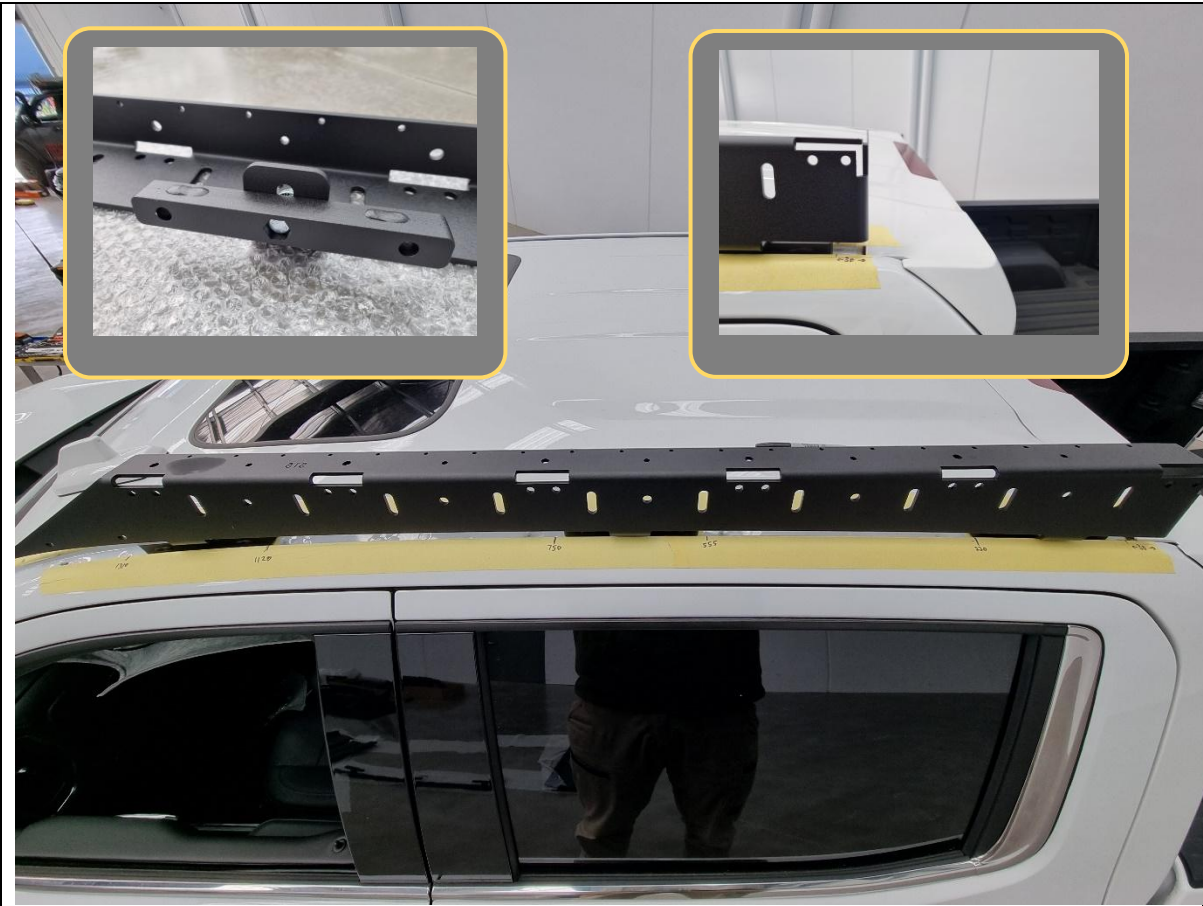


10. If there are any ball studs in the blank gutter regions, pull/twist them with a set of pliers and remove them.

TOOLS REQUIRED

Pliers

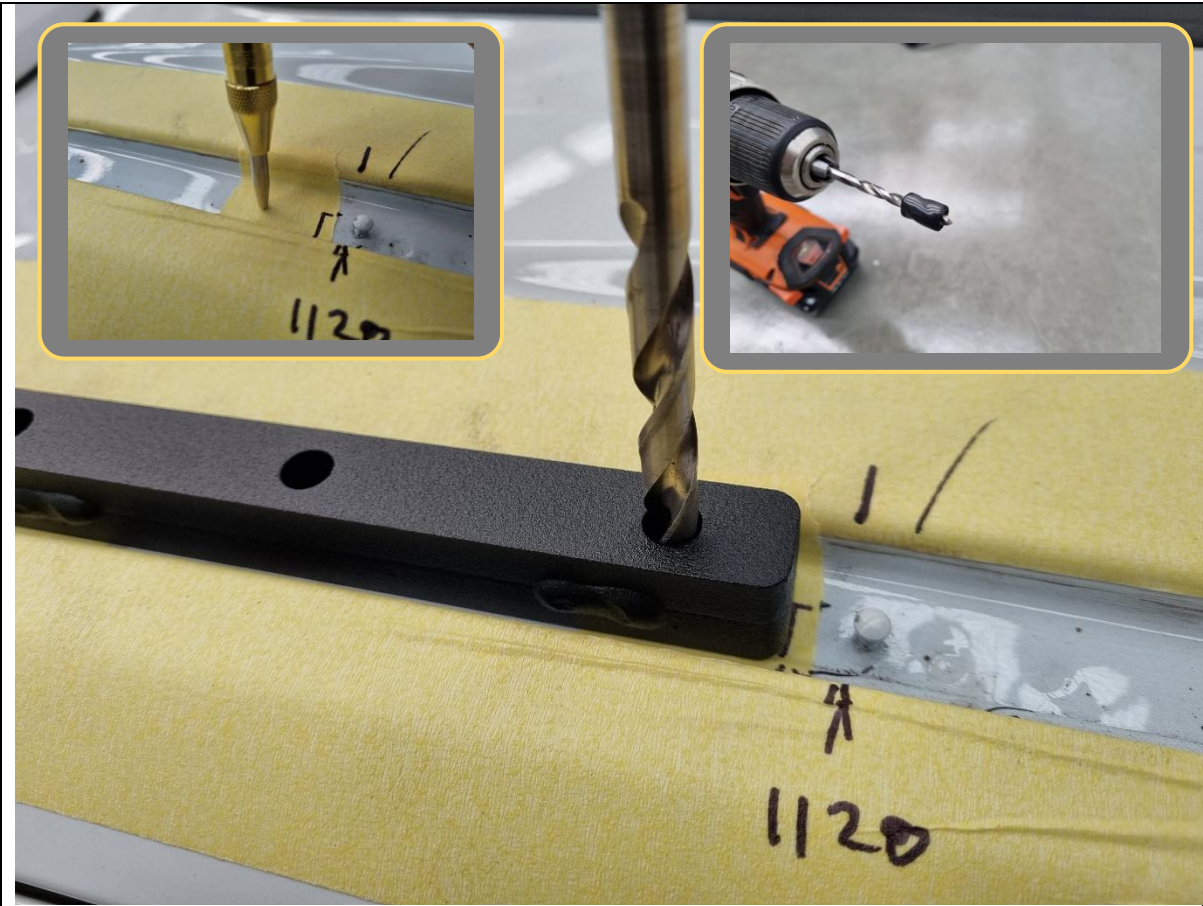
FASTENERS



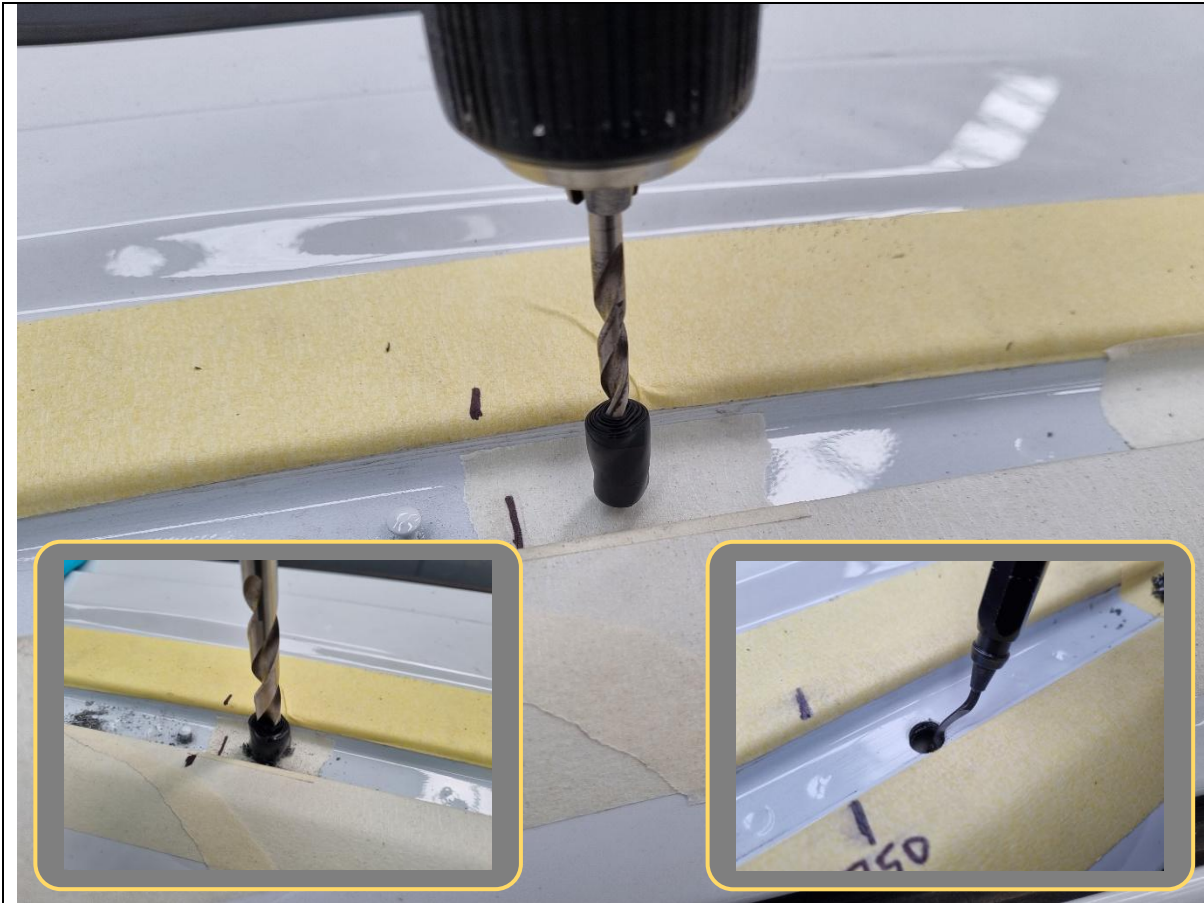
11. Loosely assemble the mounting blocks to the roof rack side (3x per side) with M8x25 hex bolts and flange nuts. 12. Carefully rest the roof rack side on the roof, with the mounting blocks sitting down the centreline of the gutter. 13. Align the rear face of the roof rack side with the roof panel gap.	TOOLS REQUIRED
	FASTENERS 6x M8x25 hex bolt 6x M8 flange nut



14. Using a marker pen, trace and mark out the location of the mounting blocks in the roof gutter. 15. Remove roof rack side after marking out roof.	TOOLS REQUIRED Marker Pen
	FASTENERS



16. Place the mounting block back into the correct positions on the roof gutter. Ensure the block is positioned down the centreline of the gutter and not off to one side. 17. Use 9mm drill bit and spin it by hand to mark the centre spot in the tape. Then remove and use a centre punch to mark the drill locations on roof (the outside holes on each block). 18. Use a drill stop or wrap many layers of tape on the 5/8/11mm drill bits so you can ensure only 10mm of drill bit pokes through the roof.	TOOLS REQUIRED 9mm Drill Bit Centre Punch Drill Stop or Tape
	FASTENERS



19. Drill the roof out to 11mm. Start with a pilot drill of 5mm, then move up to 8mm and finally 11mm. Ensure nutsert fits in each hole.

Note: Roof contains layers of hardened steel. It is advised to use toughened drill bits (HSS cobalt or stronger) and plenty of cutting fluid.

20. Remove any burrs with a deburring tool.

TOOLS REQUIRED

Electric Power Drill

5/8/11mm Drill Bit (HSS Cobalt or stronger)

Cutting Fluid

Deburring Tool

FASTENERS



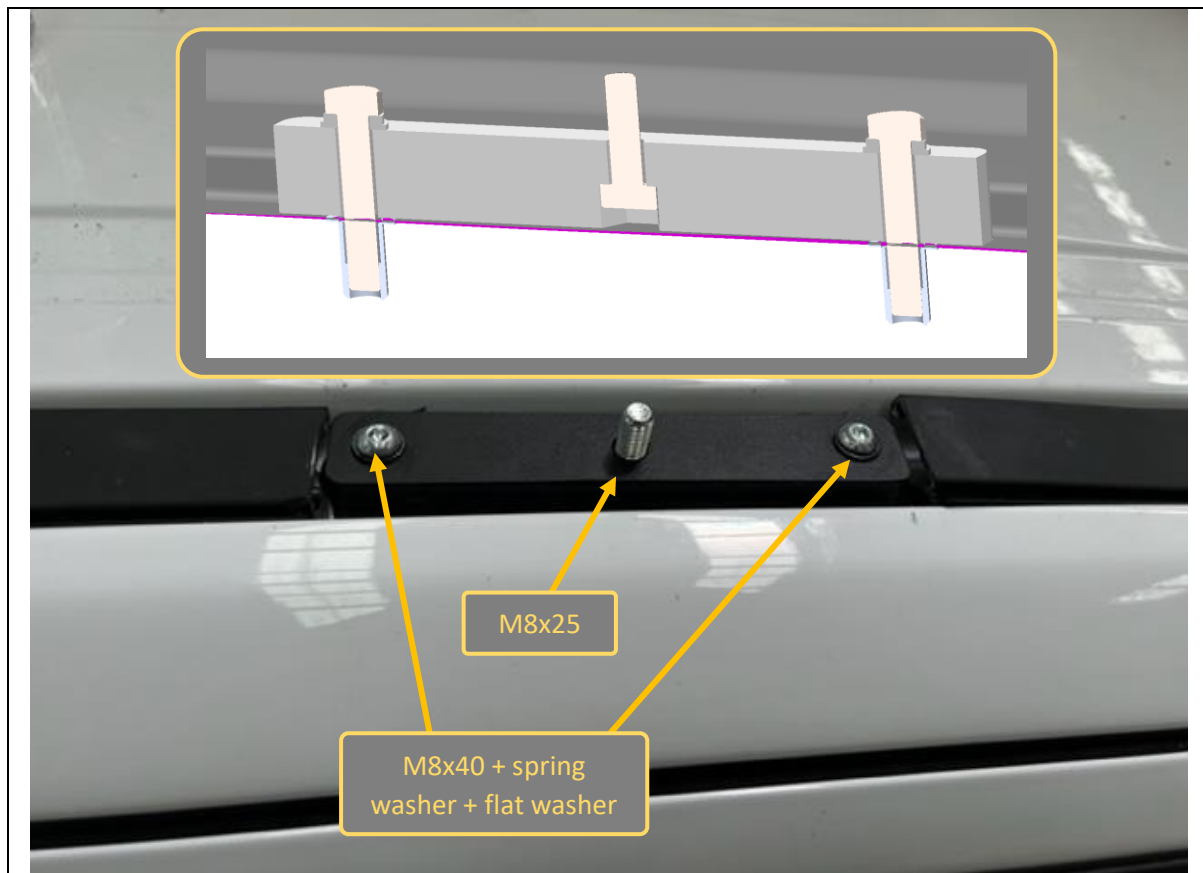
21. Fit M8 Nutserts to each hole (6 per side.) Ensure each one is tight.
22. Take care to install these properly. If they are loose, then you will have to substitute them with regular M8 nuts on the underside of the roof (headliner removal required).

TOOLS REQUIRED

Rivet gun

FASTENERS

12x M8 nutserts



23. Apply some automotive sealant around each nutsert and along the length of the bottom face of each mounting block.
24. Fit the M8x25 bolt through the middle hole of the mounting block, facing up. The hex head of the bolt should sit in the hex shaped recess of the mounting block.
25. Secure the mounting block down onto the roof and into the nutserts with M8x40 hex bolt, spring washer and flat washer.
26. Tighten and torque up all bolts into the roof.
27. Now it's time to assemble the roof rack.

TOOLS REQUIRED

Non-Adhesive
Automotive Sealant

13mm Socket/Spanner

FASTENERS

6x M8x25 hex bolt
12x M8x40 hex bolt
12x M8 spring washer
12x M8 flat washer



28. Insert 1x M8 nut into the top T-slot of each extrusion end. 29. Repeat for all 6x extrusions.	TOOLS REQUIRED
	FASTENERS 12x M8 hex nut



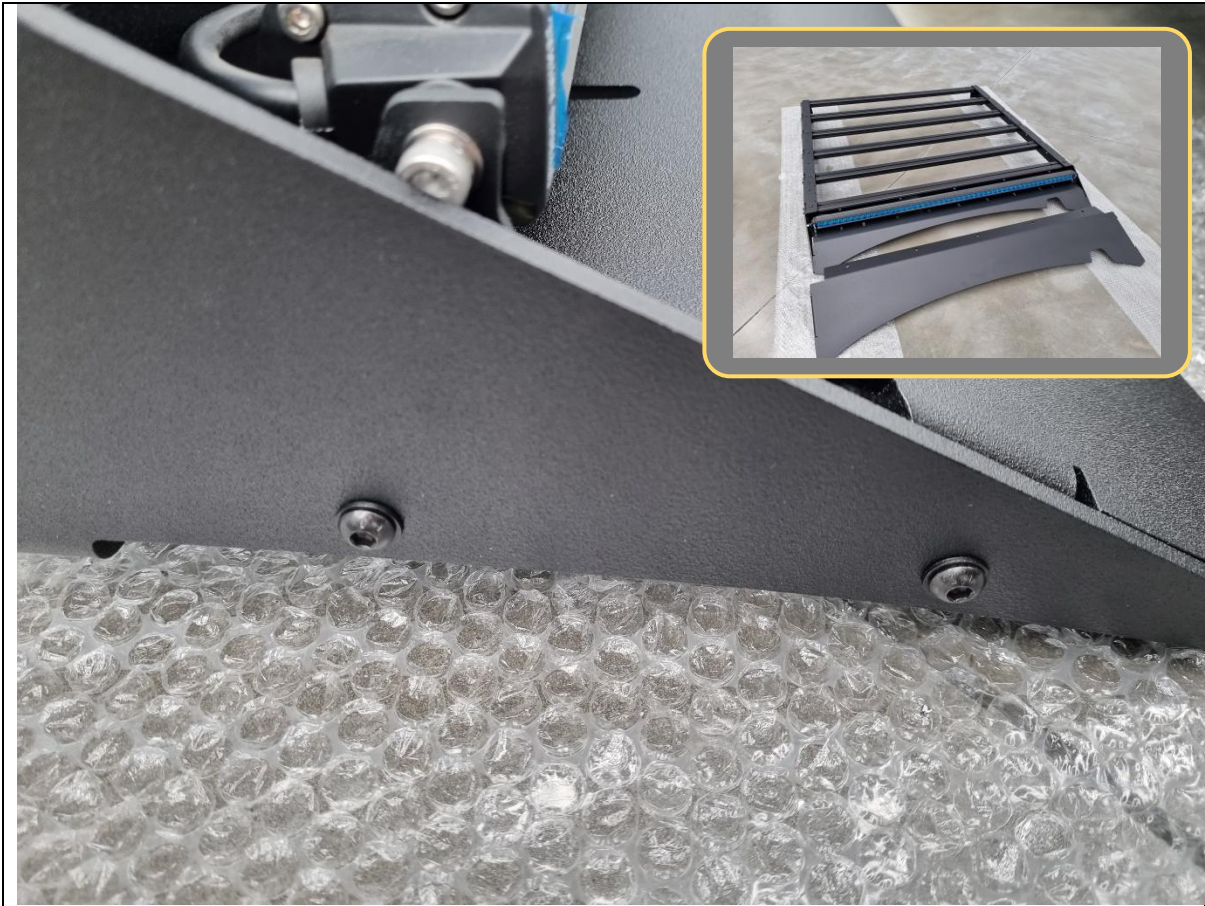
30. Bring the rack side in line with the extrusions and secure each extrusion end with 2x M8x20 button head bolts and black washers through the pre-threaded holes on the side.
31. Secure the top of each extrusion to the rack side with 1x M8x16 button head bolt and black washer through the previously installed M8 nut on top.
32. Also insert 1x M8 hex nut into the rear most extrusion slot and secure with 1x M8x16 button head bolt and black washer for each rack side.
33. Leave all bolts finger tight at this stage.

TOOLS REQUIRED**FASTENERS**

14x M8x16 button head
24x M8x20 button head
38x M8 black flat washer
2x M8 hex nut



34. Fit your wind deflector of choice. 35. For the standard wind deflector, insert 5x M8 nuts into the top T-slot of the forward-most extrusion, evenly spaced. 36. For the optional light bar wind deflector, insert 5x M8 nuts into the front facing T-slot of the forward-most extrusion, evenly spaced. 37. Secure your wind deflector to the extrusion with 5x M8x16 button head bolts and black washers. Do not fully tighten.	TOOLS REQUIRED 5mm hex/Allen key
	FASTENERS 5x M8x16 button head 5x M8 black flat washer 5x M8 hex nut



38. Secure the wind deflector to the rack sides with 4x M6x20 button head bolts, washers and flange nuts (2x per side).
39. At this stage, leave all bolts on the roof rack loose.
40. If required, fit the light bar onto the light bar wind deflector now. The light bar wind deflector can accommodate up to a 50-inch single row light bar.

TOOLS REQUIRED

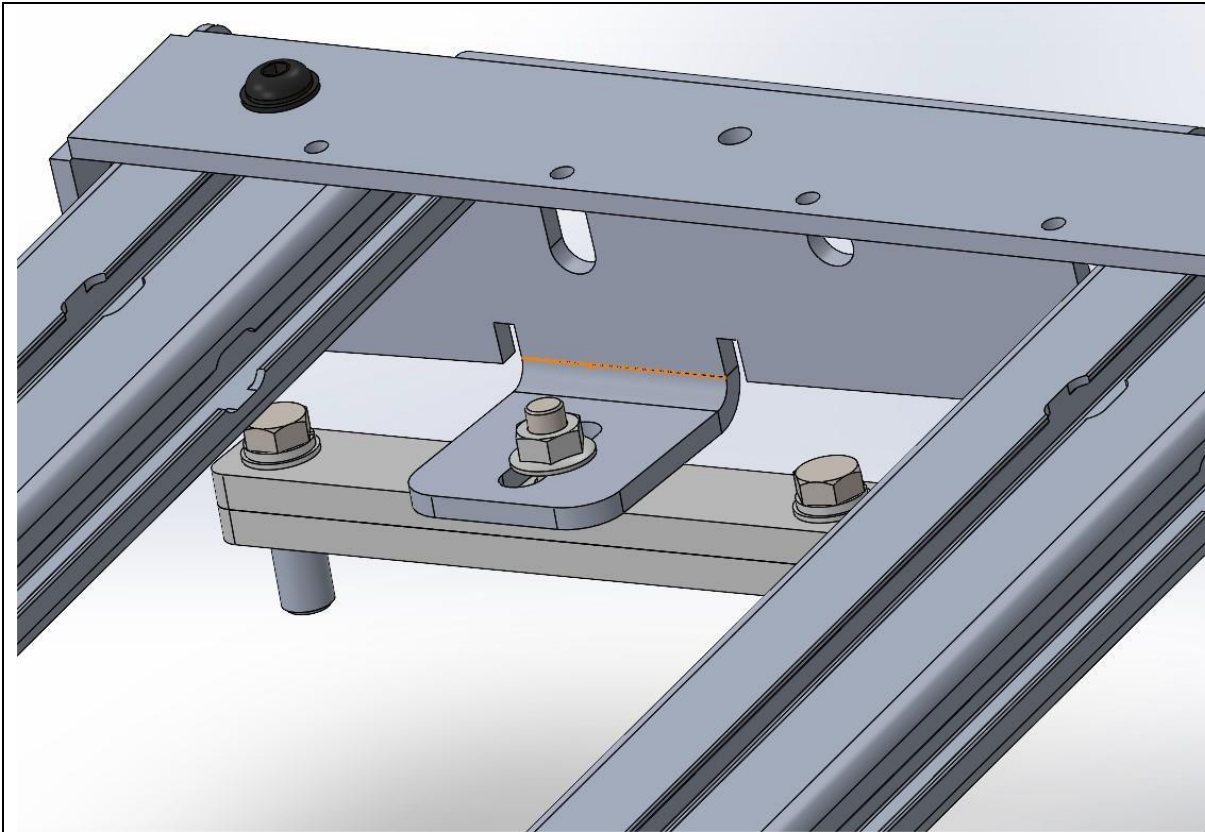
4mm hex/Allen key

FASTENERS

4x M6x20 hex bolt
4x M6 black flat washer
4x M6 flange nut



41. Place a soft blanket on the roof in between the roof channels to protect the paintwork while the roof rack is installed. 42. With your mate’s assistance, lift and place the roof rack onto the roof. The protruding M8x25 hex bolts should fit into the slots on the bottom of the roof rack sides. Note: Take care to avoid hitting the antenna on the front left corner of the roof with the roof rack.	TOOLS REQUIRED
	FASTENERS



43. Align and centre the roof rack on the vehicle.
44. Once happy with alignment, fit M8 flange nuts onto bolts sticking up to secure rack down to the roof.
45. Torque all remaining bolts on the roof rack (extrusion, mounts, wind deflector). Make sure you get them all.

TOOLS REQUIRED

13mm socket/spanner
4/5mm hex/Allen key

FASTENERS

6x M8 flange nut



46. Be a lad and make sure you put on the logo plates onto the front end of the roof rack or bad luck will befall you for the next year.

TOOLS REQUIRED**FASTENERS**



Congratulations! You're done!
Go out bush and enjoy carrying all your gear on our light weight, low profile and quiet Scout
Roof Rack for your Chevrolet Silverado 1500!