



TOYOTA FORTUNER GUN156R MY2015+ ON SCOUT ROOF RACK

IMPORTANT! – READ BEFORE INSTALLATION

Rated to 120kg driving and 320kg sitting still - Rack weight is 28kg - Offroad Rating is 80kg so minus the 28kg rack means you're allowed to put 52kg up there

- 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

Use caution when cleaning with pressure washers, as they may compromise the product coating's integrity. Exercise care to avoid surface damage.

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

Do not use acidic or alkaline based cleaning products.

Plastic parts may be maintained with silicone spray.

It is important to perform regular checks (pre/during/post trip or on an annual basis) on the installed product. More frequent checks may be required in extreme use cases. 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.

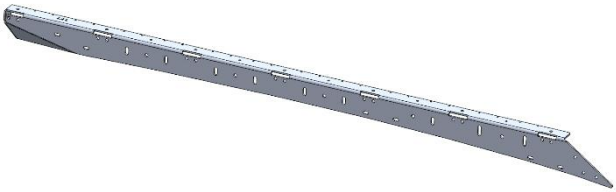
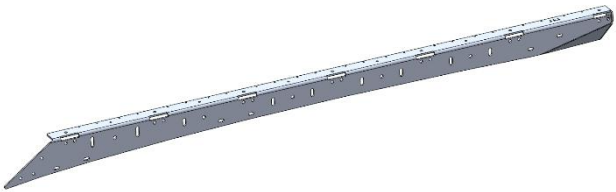
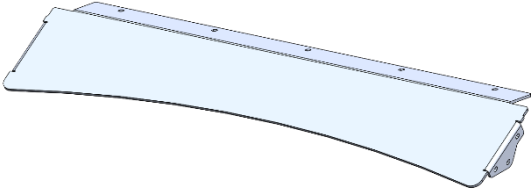
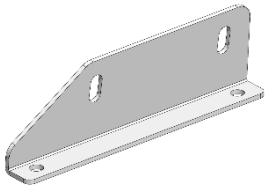
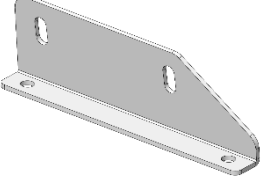
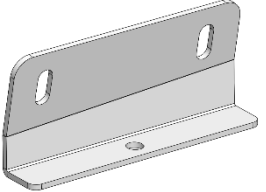
FRONT BAR MOUNTS AND TOW POINTS + REAR TOWBAR	
Size	Torque Nm
M10	57 Nm
M12	100 Nm
M14	164 Nm
M16	248 Nm

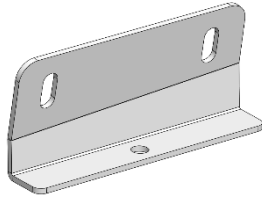
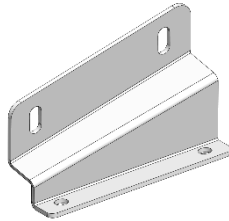
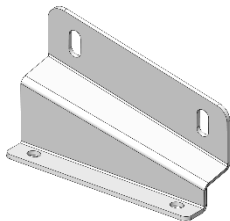
Always use a torque wrench to set correct torque settings. Ensure torque wrench is set to Nm unit of measurement. Otherwise perform conversion to lb-ft.

PARTS LISTING

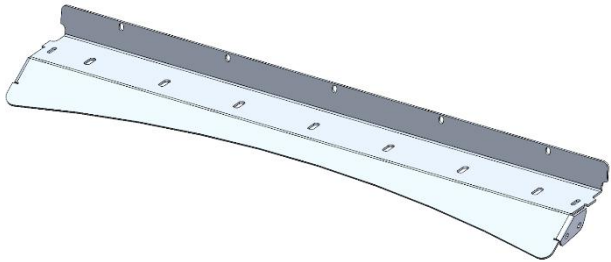
IMPORTANT: Check all parts are present before beginning work! Contact OFFROAD ANIMAL if something is missing.

Parts – In the Main Box

Qty	Part Number	Description	Image
1	B-0843R	Fortuner Scout Rack Side	
1	B-0843L	Fortuner Scout Rack Side	
1	B-0844	Fortuner Wind Deflector	
1	B-0846R	Fortuner Scout Rack Front Mount Bracket	
1	B-0846L	Fortuner Scout Rack Front Mount Bracket	
1	B-0847R	Fortuner Scout Rack Mid Mount Bracket	

1	B-0847L	Fortuner Scout Rack Mid Mount Bracket	
1	B-0848R	Fortuner Scout Rack Rear Mount Bracket	
1	B-0848L	Fortuner Scout Rack Rear Mount Bracket	
2	OFA-LOGO	Offroad Animal Metal Logo	

Optional Light Bar Kit – Purchased Separately

Qty	Part Number	Description	Image
1	B-0845	Fortuner Wind Deflector Light Bar	

Cross Bar Kit

Qty	Part Number	Description	Image
7	E-0006-1100	Scout Roof Rack – Cross Bar Extrusion 1100MM	

Fasteners – Contained in Small Parts Kit Bag

Qty	Part Number	Description
6	P-0265	100mm M8 Nut Plate
2	P-0266	Fortuner Scout Rack Front Mount - 156mm M8 Nut Plate
2	P-0267	Fortuner Scout Rack Mid Mount - Lollipop M8 Nut Plate
2	P-0268	Fortuner Scout Rack Rear Mount - 106.5mm M8 Nut Plate
19	M8 NUT	Hex Nut, M8x1.25 G8.8 ZP
59	M8 HD FLAT WASHER - BZP	M8 FLAT WASHER - High Tensile 19x8x2mm, ISO4042 ZnNi BLACK PASSIVATED FINISH
19	M8 X 16 BHCS BZP	SCREW, BUTTON HEAD CAP, M8X16X1.25 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH
40	M8 X 20 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M8X20X1.25, ISO4042 ZnNi BLACK PASSIVATED FINISH
10	M8 FLAT WASHER	M8 FLAT WASHER
10	M8X20 CAP SCREW	CAP SCREW, M8X20X1.25 GR10.9 ZP
6	M6x20 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M6X20X1 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH
6	M6 FLAT WASHER BLACK ZINC	M6 Flat Washer, 12x6.1x1, 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.

Hand Tools	Power Tools	Workshop Equipment
Metric Socket Set 8-19mm	For GX fitment: Electric Power Drill	Soft Blanket
Socket Extension Bar		Rag
Metric Spanner Set 10-19mm		Isopropyl Alcohol
Hex (Allen) Key Set 4-6mm		Automotive grade sealant (eg. SikaFlex silicone adhesive)
Trim Removal Tool/s		For GX fitment:
Flat Head Screwdriver		Masking tape
Phillips Head Screwdriver		Marker pen
Box Cutter or side cutters		Cutting Fluid
For GX fitment: Centre Punch		Safety glasses
5 + 9mm Drill Bit (HSS Cobalt or stronger)		Rust inhibiting paint
Deburring Tool		

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.



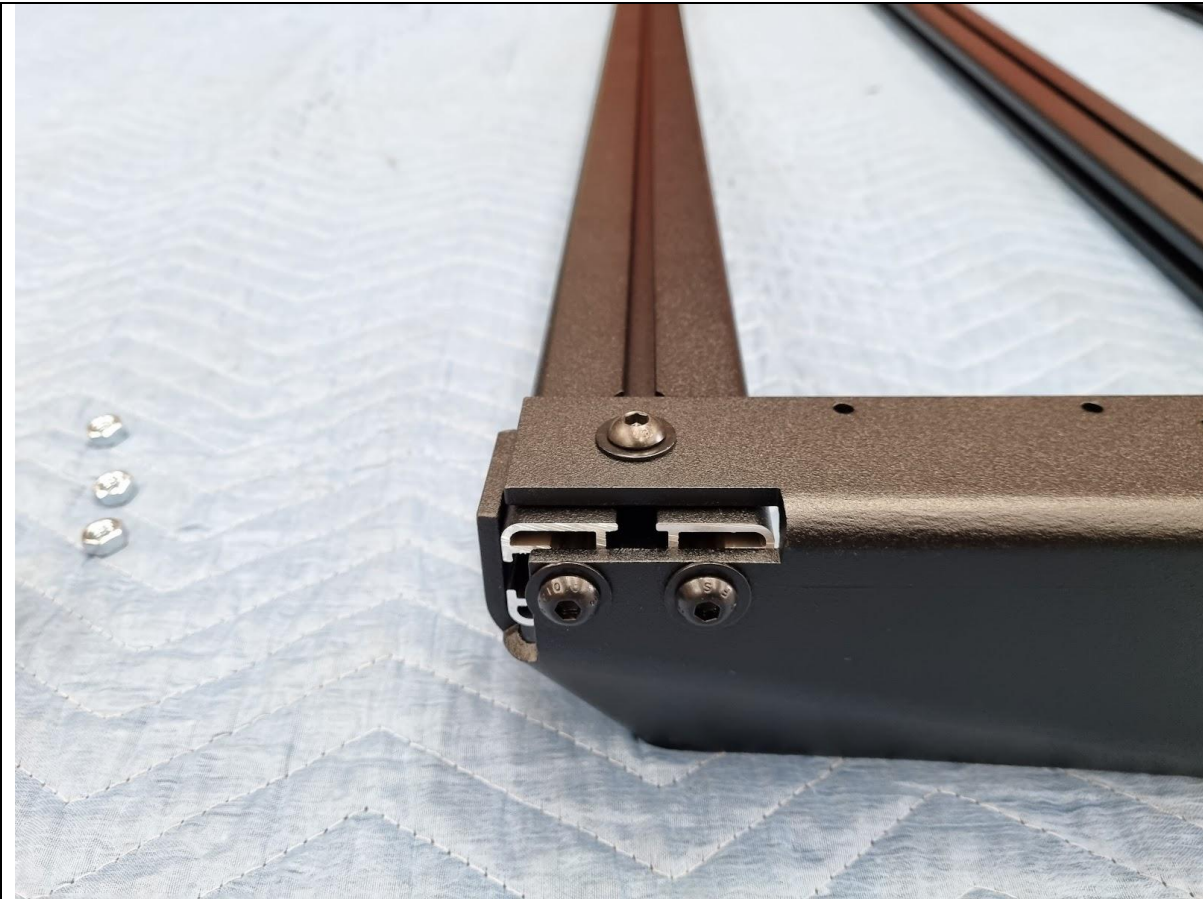
1. Find a large table space or floor area and lay out all the extrusion cross bars, rack sides and wind deflector of choice.

TOOLS REQUIRED

FASTENERS



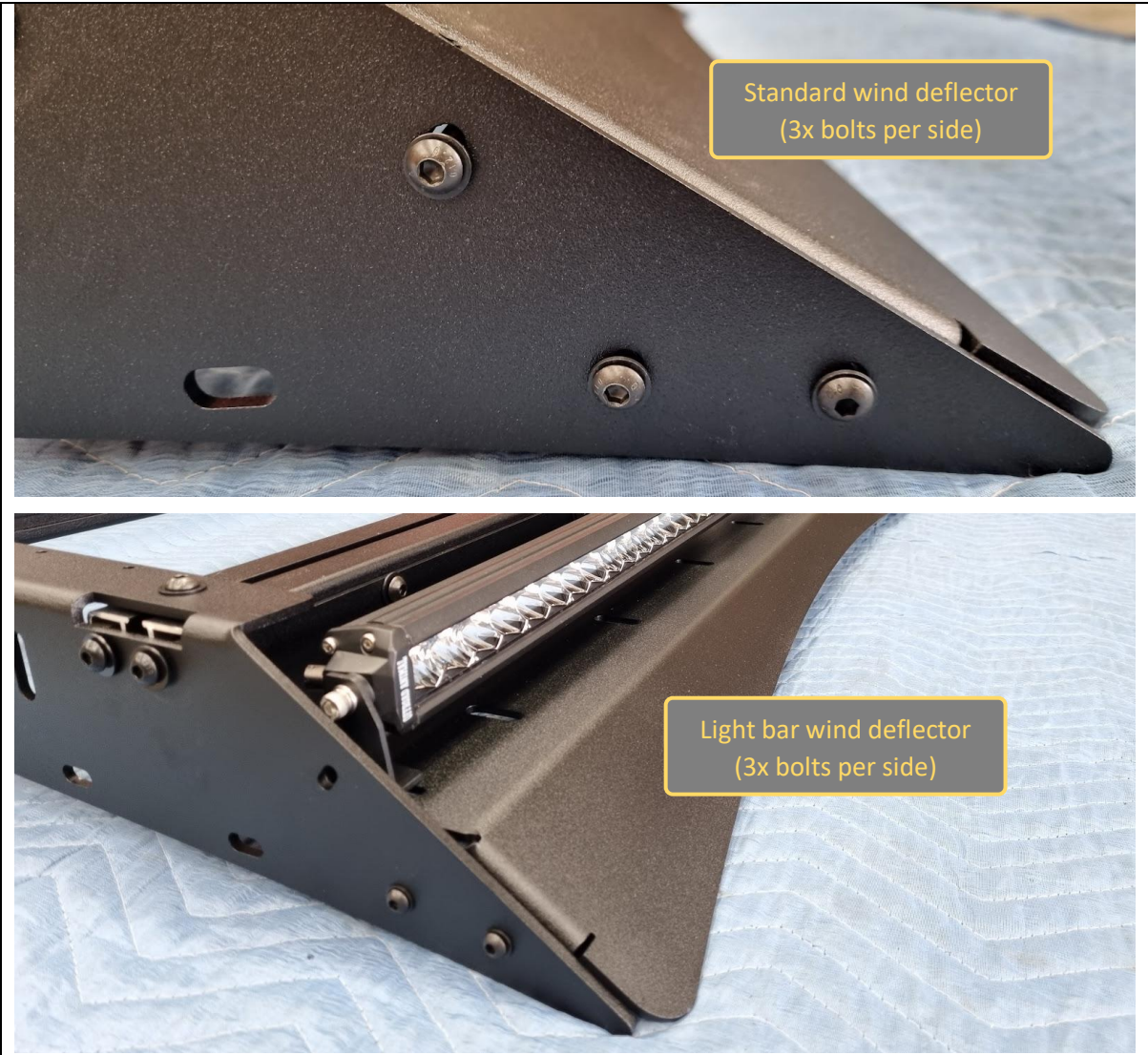
2. Insert 1x M8 nut into the top T-slot of the extrusion end. 3. Repeat for both ends of all 7x extrusions.	TOOLS REQUIRED
	FASTENERS 14x M8 nut



4. Bring the rack side in line with the extrusion and secure with 2x M8x20 button head bolts and black washers through the pre-threaded holes on the side and 1x M8x16 button head bolt and black washer through the previously installed M8 nut on top. Do not fully tighten. 5. Repeat for all extrusions and both rack sides.	TOOLS REQUIRED 5mm hex (Allen) key
	FASTENERS 28x M8x20 button head 14x M8x16 button head 42x M8 flat washer (black)



6. Fit your wind deflector of choice. 7. For the standard wind deflector, insert 5x M8 nuts into the top T-slot of the forward-most extrusion, evenly spaced. 8. For the optional light bar wind deflector, insert 5x M8 nuts into the front facing T-slot of the forward-most extrusion, evenly spaced. 9. 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 flat washer (black) 5x M8 nut



10. Secure your wind deflector to the rack sides with M6x20 button head bolts, washers and flange nuts. 11. For the standard wind deflector, use 3x bolts per side. 12. For the light bar wind deflector use 2x bolts per side. 13. If required, fit the light bar onto the light bar wind deflector now. 14. At this stage, leave all bolts on the roof rack loose.	TOOLS REQUIRED 4mm hex (Allen) key 10mm socket/spanner
	FASTENERS 3x M6x20 button head 3x M6 flat washer 3x M6 flange nut



15. Headliner removal is required for fitting the roof rack. Start from the front and work your way backwards.

A-PILLAR TRIM REMOVAL

16. Using a trim removal tool or flat head screwdriver, pry open the 2x plastic tabs on the grab handle.
17. Remove the grab handle by removing 2x hex bolts with a 10mm socket.

TOOLS REQUIRED

Flat Head Screwdriver or
Trim Tool

10mm socket

FASTENERS

2x Factory hex bolt

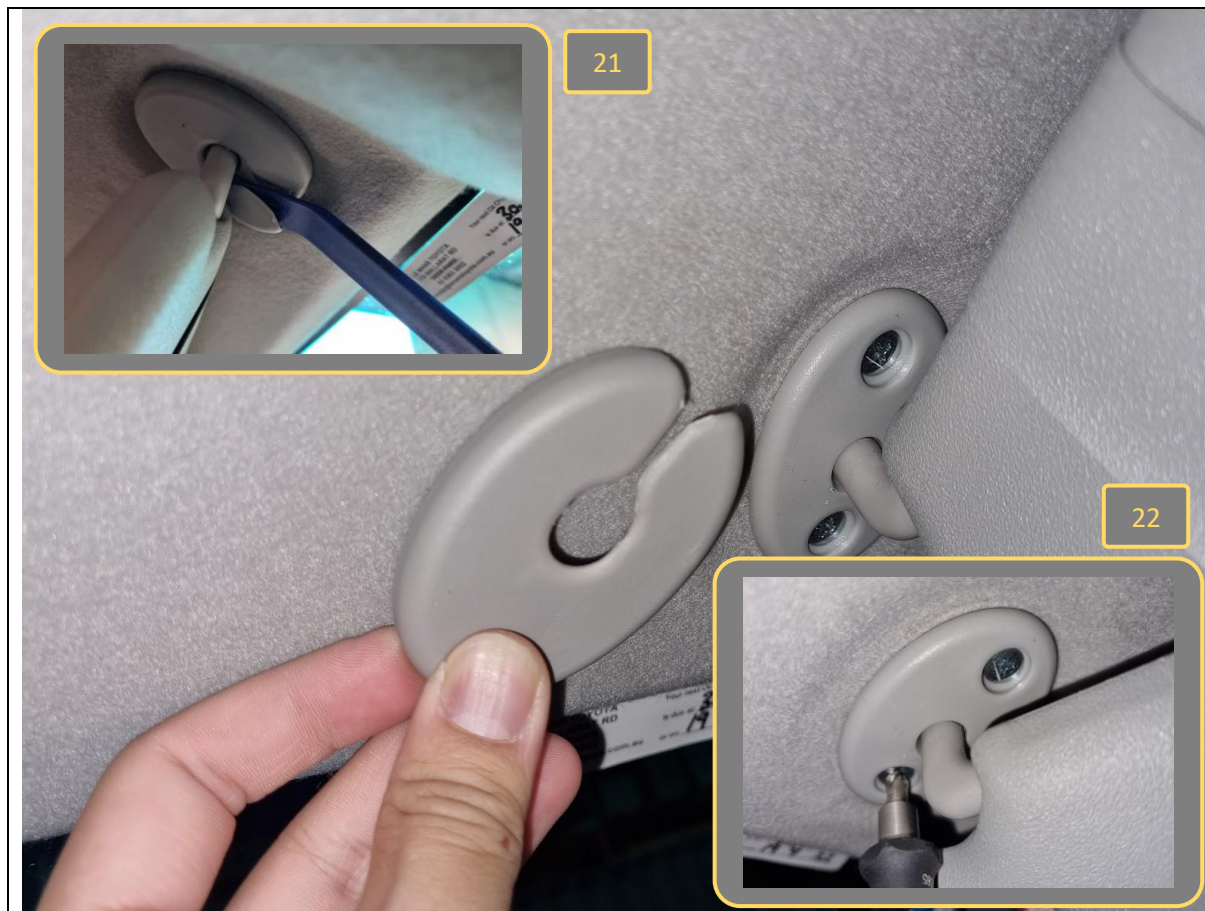
Retain for Reassembly



18. Pull back the rubber front door seal halfway to expose the A and B pillar trims. 19. Starting from the top, insert a finger and pull on the A-pillar trim to release the plastic push clips hidden behind. Set aside the A-pillar trim for reassembly later.	TOOLS REQUIRED
	FASTENERS



20. Carefully unclip the exposed curtain SRS airbag wire from its plastic clips as indicated.	TOOLS REQUIRED
	FASTENERS

**SUN VISOR REMOVAL**

21. Use a trim removal tool or flat head screwdriver to pop off the plastic cover on the sun visor base.
22. Unscrew 2x Phillips head screws and remove the sun visor. Retain for later.

TOOLS REQUIRED

- Flat head screwdriver or
Trim removal tool
- Phillips head screwdriver

FASTENERS

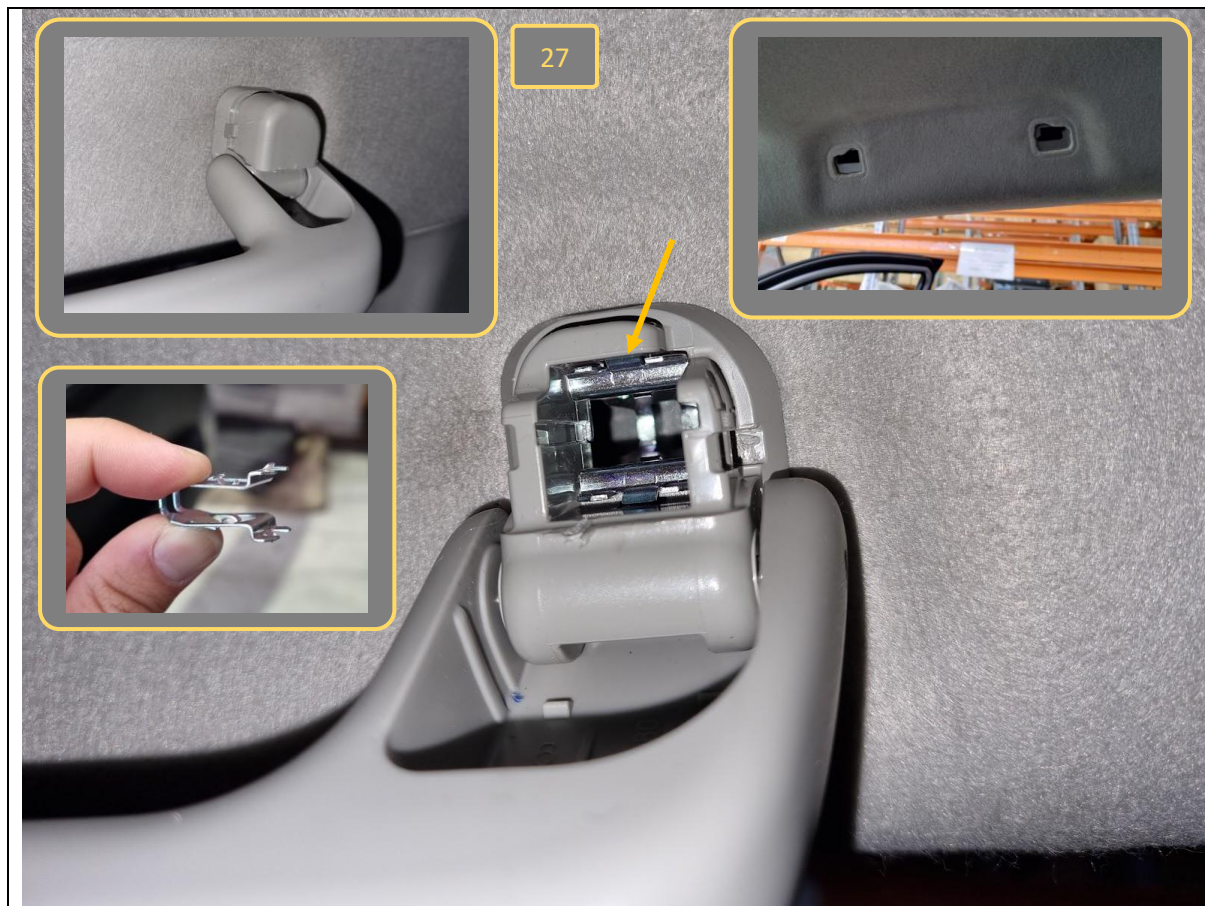
- 2x Factory screws
- Retain for Reassembly



23. Grab onto the sun visor retaining clip and twist to release from the roof. (Twist anti-clockwise for the RH driver side, clockwise for LH passenger side)

TOOLS REQUIRED**FASTENERS**

		
FRONT OVERHEAD LIGHT CONSOLE REMOVAL		TOOLS REQUIRED
24. Use a trim removal tool or flat head screwdriver to pry and release the clips at the rear of the overhead light console.		Flat head screwdriver or Trim removal tool
25. Pull downwards and rearwards to release the front clips.		
26. Unplug the connector and set aside the light.		
		FASTENERS

**OVERHEAD GRAB HANDLE REMOVAL**

27. Use a trim removal tool or flat head screwdriver to pop out the plastic cover cap on the grab handle. (Slide it outwards, not upwards)
28. Push downwards on the metal spring clip to release and remove the grab handle.
29. Repeat for all 6x grab handles (3x per side on front/middle/rear seat rows)

TOOLS REQUIRED

Flat head screwdriver or
Trim removal tool

FASTENERS

   30		
FRONT ROW SEAT BELT REMOVAL		TOOLS REQUIRED
30. Use a trim removal tool or flat head screwdriver to pop off the plastic cover.		Flat head screwdriver or Trim removal tool
31. Undo the shoulder bolt with a 14mm socket/spanner holding the seat belt. Let the seatbelt hang and rest.		14mm socket/spanner
		FASTENERS
		1x Factory bolt
		Retain for Reassembly

		
MIDDLE ROW SEAT BELT REMOVAL 32. Use a trim removal tool or flat head screwdriver to pop off the plastic cover. 33. Undo the shoulder bolt with a 14mm socket/spanner holding the seat belt. Let the seatbelt hang and rest.	TOOLS REQUIRED Flat head screwdriver or Trim removal tool 14mm socket/spanner	
	FASTENERS 1x Factory bolt Retain for Reassembly	



REAR ROW SEAT BELT REMOVAL	
34. Use a trim removal tool or flat head screwdriver to pop off the plastic cover. 35. Remove the black plastic clip using a 10mm socket. 36. Undo the shoulder bolt with a 14mm socket/spanner holding the seat belt. Let the seat belt hang and rest.	TOOLS REQUIRED
	Flat head screwdriver or Trim removal tool 10mm socket 14mm socket/spanner
	FASTENERS
	2x Factory bolt Retain for Reassembly



B-PILLAR TRIM REMOVAL 37. Pull back the middle row rubber door seal halfway to expose the B and C pillar trims. 38. Pull back the B-pillar trim from the side to release the clips holding it to the door pillar and set aside.	TOOLS REQUIRED
	FASTENERS



C AND D-PILLAR TRIM REMOVAL		TOOLS REQUIRED
39. Starting from behind the middle row seats, pull back and release the clips of the lower half black trim in the rear seat/cargo area. 40. Continue to work along the top edge towards the tailgate and release all of the remaining clips on the black plastic trim. (It is not necessary to remove the entire trim, just release the top edge) 41. Pull back the rubber tailgate seal halfway to expose the D-pillar trim. Be careful of grease on the tailgate seal and pinchweld. (Use a rag to prevent making a mess)		Rag
		FASTENERS



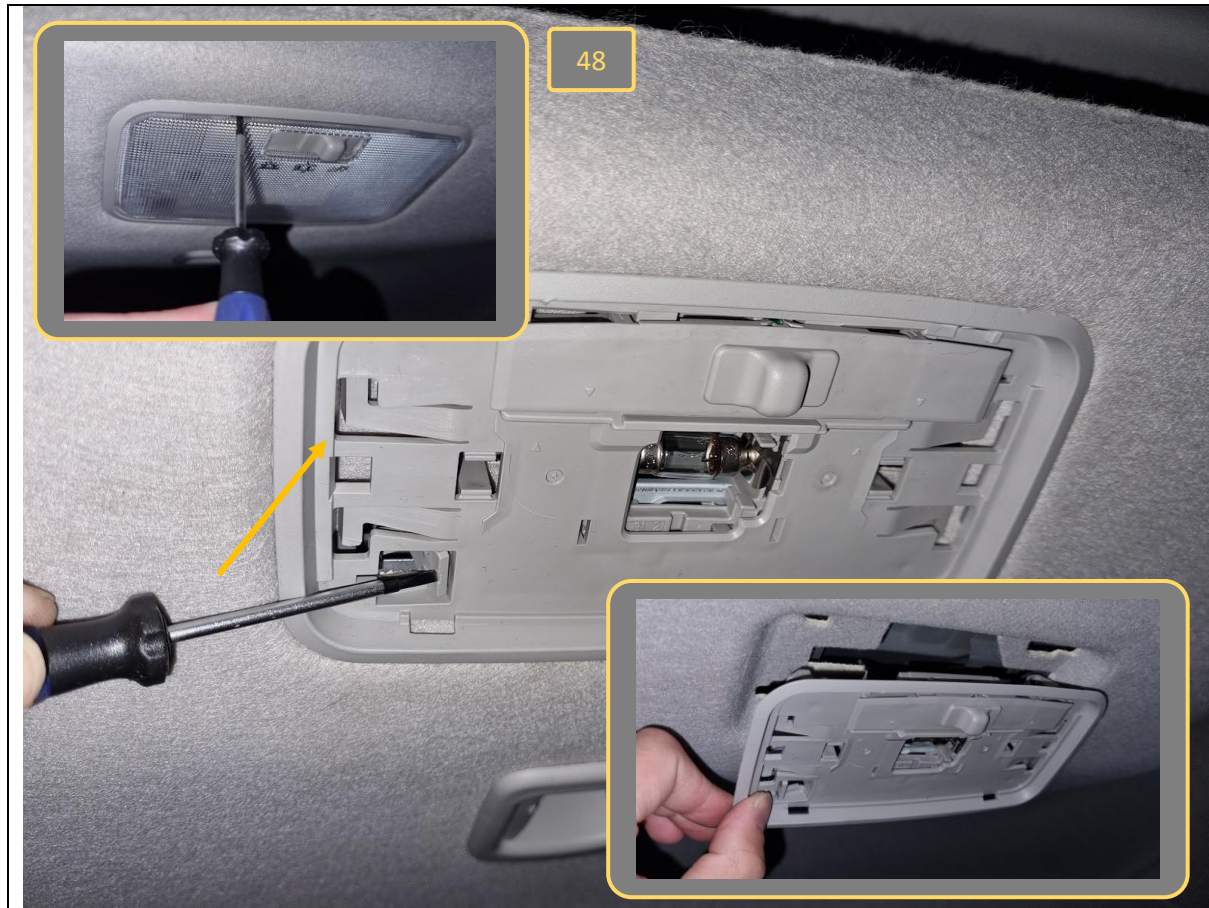
42. Starting from the top, pull and release the clips holding the C-pillar trim. Set aside the trim. 43. Do the same for the D-pillar trim.	TOOLS REQUIRED
	FASTENERS



MIDDLE OVERHEAD LIGHT CONSOLE REMOVAL	TOOLS REQUIRED
44. Using a trim removal tool or flat head screwdriver, pop off the clear plastic light lens cover.	Flat head screwdriver or Trim removal tool
45. Press on the 2x tabs as indicated and release and lower the light console. Let it hang off the ceiling.	
	FASTENERS



MIDDLE ROW CENTRE SEAT BELT REMOVAL 46. Using a trim removal tool or flat head screwdriver, pry around the outside edge of the centre seat belt plastic trim and release the plastic push pins from the roof. 47. Let the trim piece hang down. There is no need to unbolt this seat belt.	TOOLS REQUIRED Flat head screwdriver or Trim removal tool
	FASTENERS

**REAR OVERHEAD LIGHT REMOVAL**

48. Using a trim removal tool or flat head screwdriver, pop off the clear plastic light lens cover.
49. Press on the tab as shown with the screwdriver to release the light. Then work around to the tab as indicated by the arrow and wedge a screwdriver/trim removal tool in between the light and roof liner to release it. Let the light hang off the ceiling.

TOOLS REQUIRED

Flat head screwdriver or
Trim removal tool

FASTENERS



CHRISTMAS TREE CLIP REMOVAL 50. There are 4x Christmas tree clips above the middle and rear row seats. Use a trim removal tool to remove them.	TOOLS REQUIRED Trim removal tool
	FASTENERS



HEADLINER REMOVAL 51. At this stage the headliner should be loose. It is recommended that you find a friend and with one person on each side, carefully pull down the headliner and rest it on the headrests. 52. Take care as it is being pulled down that it doesn't snag on anything such as the rearview mirror or else you will crease your headliner.	TOOLS REQUIRED
	FASTENERS

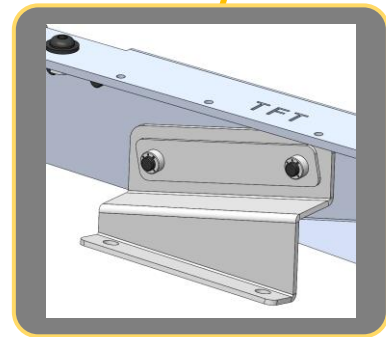
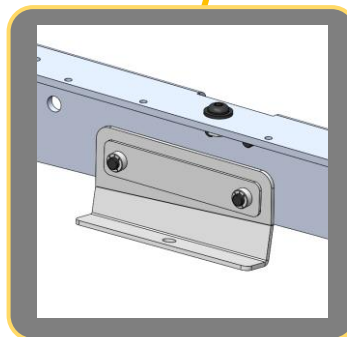
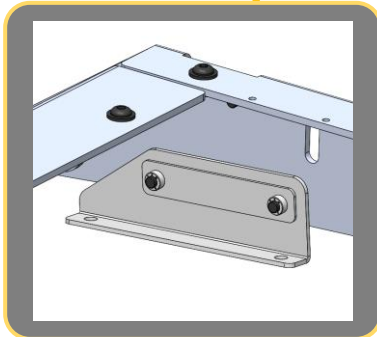
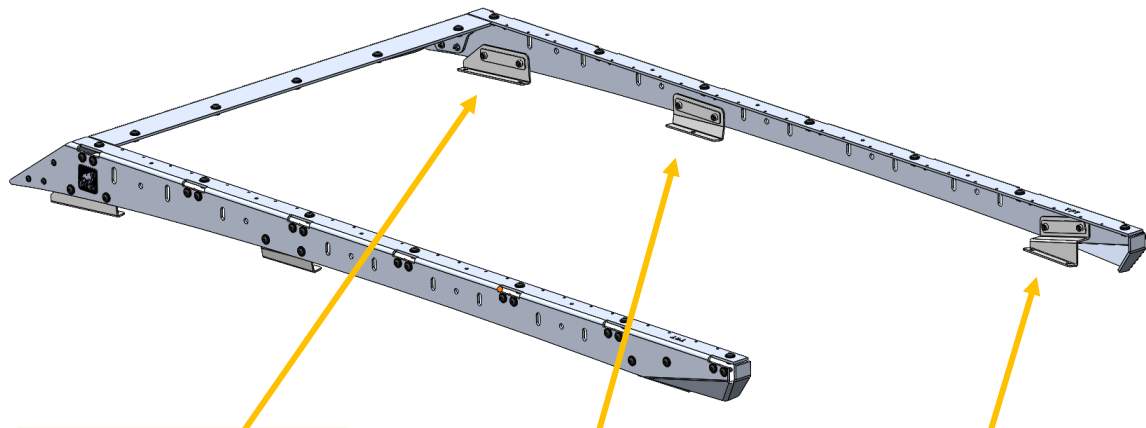


53. If the vehicle is equipped with factory roof rails, they will need to be removed. 54. There are 5x studs affixed to the factory roof rail and held to the roof with nuts from underneath. Locate them from inside the car at the locations indicated, and undo them using a 10mm socket or spanner. 55. Remove and discard the factory roof rail. 56. For vehicles without factory roof rails, remove any rubber mouldings covering the roof channels and retain them for later (see bottom right photos).	TOOLS REQUIRED 10mm socket/spanner
	FASTENERS 5x Factory nuts Discard after removal

		
57. Using a cleaning solvent like isopropyl alcohol, give the roof channel a good clean. Make sure there is no dirt or oils left in the channel.	TOOLS REQUIRED Isopropyl alcohol or similar Rag	
	FASTENERS	

IF NO EQUIPPED WITH FACTORY RAILS

Otherwise skip to Step 71



58. If the vehicle was not equipped with factory rails, the mounting holes will need to be drilled in the roof. We will use the assembled roof rack as a template/guide.

59. Assemble the mounting brackets onto the roof rack, using M8x20 black button head bolts, black washers and P-0265 100mm nut plates. Have the bolts slightly tightened, but not fully torqued up.

Refer to images above for exact orientation of each bracket.

TOOLS REQUIRED

5mm hex (Allen key)

FASTENERS

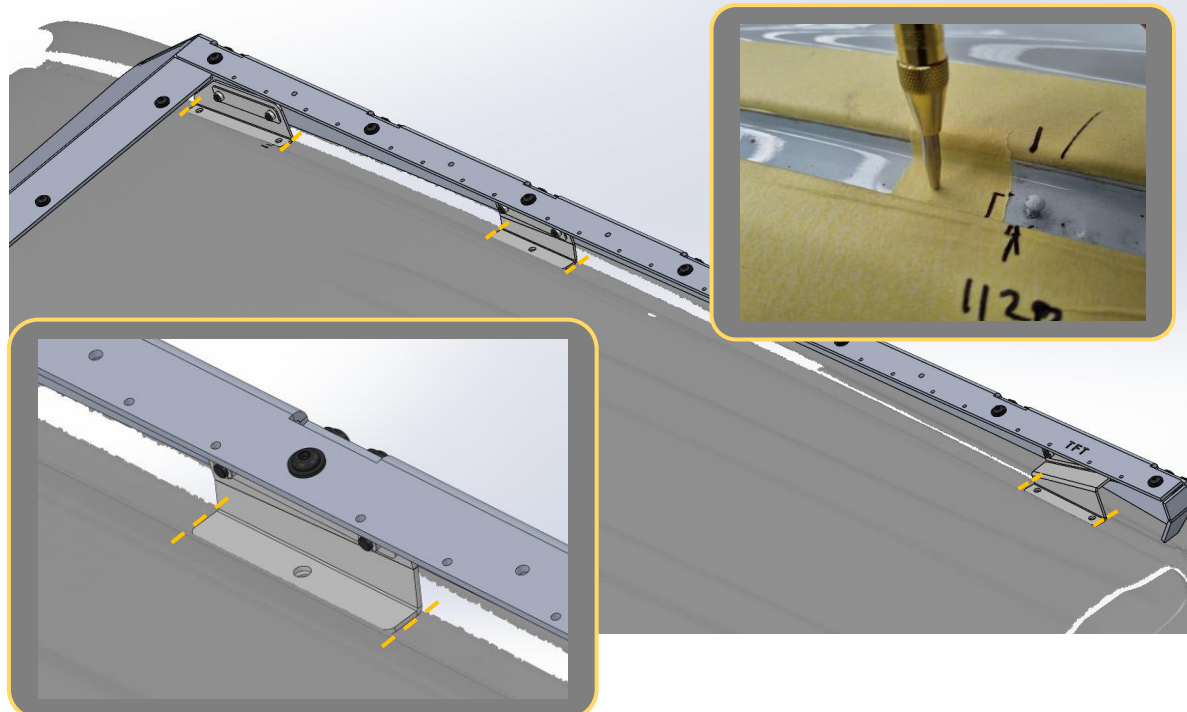
12x M8x20 black button head
12x M8 black washer
6x P-0265 100mm nut plates



60. Place masking tape in the roof channels to protect the paintwork. 61. With your mate’s assistance, lift and place the roof rack onto the roof, with the mounting brackets sitting in the roof channels. 62. Align the roof rack so that the rear most cross member sits in between the shark fin antenna and tailgate when it is fully open.	TOOLS REQUIRED Masking tape
	FASTENERS

IF NO EQUIPPED WITH FACTORY RAILS

Otherwise skip to Step 71



63. With a marker pen, mark out the position of each mounting bracket onto the previously laid out masking tape on the roof.
64. Remove the roof rack and disassemble the mounting brackets.
65. Place the mounting brackets individually back in their marked positions on the roof, then mark out the individually mounting hole positions. There are 5x holes per side.
66. Use a centre punch to scribe the hole locations into the roof.

TOOLS REQUIRED

Marker pen

Centre punch

FASTENERS



67. Use a drill stop or wrap many layers of tape on the 5/9mm drill bits so you can ensure only 10mm of drill bit pokes through the roof. 68. Drill the roof out to 9mm. Start with a pilot drill of 5mm, then move up to 9mm. Note: Roof contains layers of hardened steel. It is advised to use toughened drill bits (HSS cobalt or stronger) and plenty of cutting fluid. 69. Remove any burrs with a deburring tool.	TOOLS REQUIRED Drill stop or tape Safety glasses 5mm Drill Bit 9mm Drill Bit Isopropyl alcohol Rag Rust inhibiting paint
70. Clean the holes with isopropyl alcohol, then apply some rust inhibiting paint.	FASTENERS



71. Starting at the front RHS of the vehicle, spread a good quality silicone adhesive sealant around the mounting holes in the roof channel.

72. Also apply some sealant to the front mount bracket.

TOOLS REQUIRED

Automotive grade
sealant

FASTENERS



73. Place bracket as shown with 2x M8x20 cap screws and washers on top and secure underneath with the front mount nutplate (denoted with an 'F' cutout on the plate).

74. Take care not to crush or clamp any airbag wires underneath the roof with the nutplate.

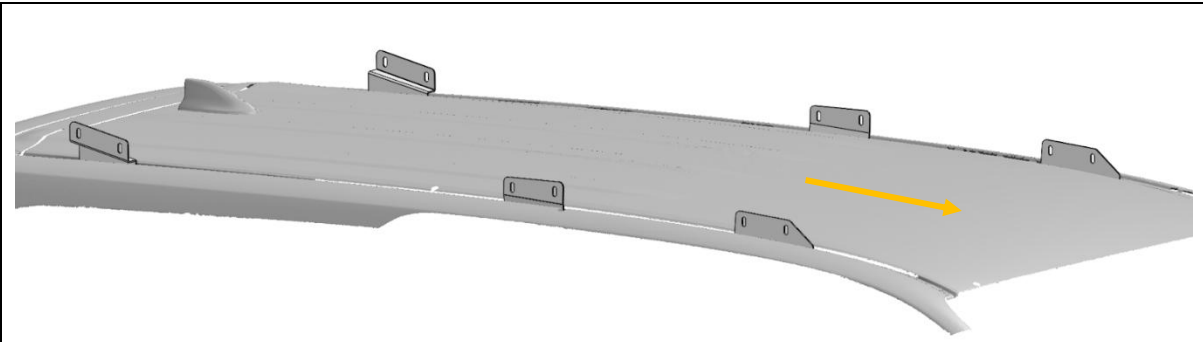
75. Tighten the bolts until they are tight then back it off a little bit so you can move and adjust the bracket once the rack is on.

TOOLS REQUIRED

4mm hex (Allen) key

FASTENERS

2x M8x20 cap screw
2x M8 washer
1x front mount nutplate

	
	
76. Repeat steps 71-75 for the mid and rear mount brackets, and for both sides of the vehicle. The middle mount nut plate is denoted with an 'M' and the rear with 'R'. 77. Take note of the orientation of the mount brackets. They are all facing outwards, and the folds and creases will be angled forwards and downwards. Refer to above image. 78. If you have leftover rubber mouldings from earlier, trim them to fit around the brackets with a box cutter and install them back onto the roof channels.	TOOLS REQUIRED Automotive grade sealant 4mm hex (Allen) key Box cutter or side cutter
	FASTENERS 3x M8x20 cap screw 3x M8 washer 1x mid mount nutplate 1x rear mount nutplate



79. Place a soft blanket on the roof in between the roof channels to protect the paintwork while the roof rack is installed.	TOOLS REQUIRED Soft blanket
	FASTENERS



80. With your mate’s assistance, lift and place the roof rack over the previously installed mount brackets. The roof rack sides should fit on the outside of the mounts. 81. Also take care of placement relative to the shark fin antenna at the back. The last extrusion cross bar should fit snugly behind it (but not touching) and in front of where the tailgate would be if it was open.	TOOLS REQUIRED
	FASTENERS



82. Start securing the roof rack to the mount brackets using M8x20 button head bolts, black washers, and P-0265 100mm M8 nut plates. 83. Do this for all mount brackets.	TOOLS REQUIRED
	FASTENERS 12x M8x20 black button head 12x M8 black washer 6x P-0265 100mm nut plates



84. Adjust the roof rack so that there is 10-15mm of vertical clearance to the roof all the way around. Do the same for the wind deflector at the front.
85. Once happy with alignment, torque all the bolts on the roof rack (extrusion, mounts, wind deflector). Make sure you get them all.
86. Now refit the headliner back on to the car in reverse order from earlier in these instructions.

TOOLS REQUIRED

4/5/6mm hex (Allen) keys

FASTENERS

Reuse factory fasteners for headliner and associated bits



87. Lucky last step, make sure you put on the logo plates 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.