



Jeep Grand Cherokee WL (5-seater) MY2022-current 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 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.
- Fitting Time: 2 hours
- This Rack is rated to 120kg dynamic (driving) load and 240kg static (sitting still)

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.

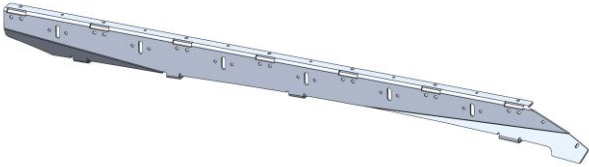
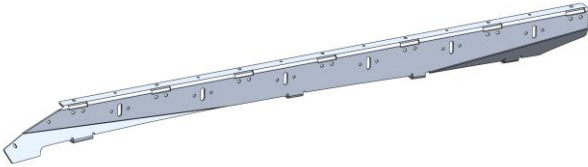
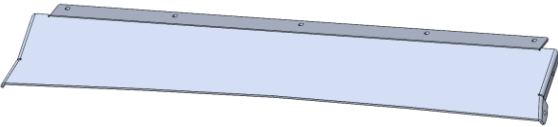
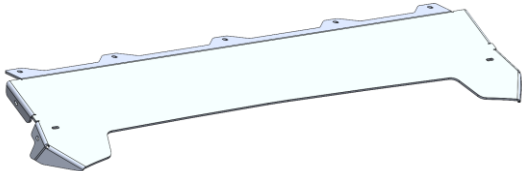


FRONT BAR MOUNTS AND TOW POINTS + REAR TOWBAR	
Size	Torque Nm
M10	57 Nm
M12	100 Nm
M14	164 Nm
M16	248 Nm


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 – In the Box

Qty	Part Number	Description	Image
1	B-0811R	WL roof rack side RHS	
1	B-0811L	WL roof rack side LHS	
1	B-0813	WL wind deflector	
OR			
1	B-1330	JGC WL/L Wind Deflector	
7	E-0006	Cross Rails 1150mm	
1	RR-JGC-WL-22-ASM2R	WL Steel rail asm RHS	

1	RR-JGC-WL-22-ASM2L	WL Steel rail asm LHS	
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Small Parts – Contained in Small Parts Kit Bag

Qty	Part Number	Description
2	OFA-LOGO	OFFROAD ANIMAL METAL LOGO
2	PW-P-14X9-1605	Pinch Weld - Plain 14X9MM, Rubber, 1605mm Length
47	M8 HD FLAT WASHER - BZP	M8 FLAT WASHER - High Tensile 19x8x2mm, ISO4042 ZnNi BLACK PASSIVATED FINISH
28	M8 X 20 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M8X20X1.25, ISO4042 ZnNi BLACK PASSIVATED FINISH
19	M8 X 16 BHCS BZP	SCREW, BUTTON HEAD CAP, M8X16X1.25 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH
19	M8 NUT	Hex Nut, M8x1.25 G8.8 ZP
4	M6x25 BHCS BLACK ZINC	CREW, BUTTON HEAD CAP, M6X25X1 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
8	M8 X 20 HEX	Bolt Hex, M8X20x1.25, GR8.8 ZP
8	M8 SW	M8 Spring Washer
8	M8 HD FLAT WASHER	M8 FLAT WASHER - High Tensile 19x8x1.9mm
8	M8 Cage nut	NUT, CAGE, M8X1.25 ZINC PLATE
12	M6 X 25 HEX	M6X25 HEX BOLT, ZP, 8.8
12	M6 Mud Guard Washer	ID 0.25IN X OD 1IN
12	HDPE Spacer black	HDPE SPACER - OD 20 X ID 8 X 5MM THICK BLACK

TOOLS REQUIRED

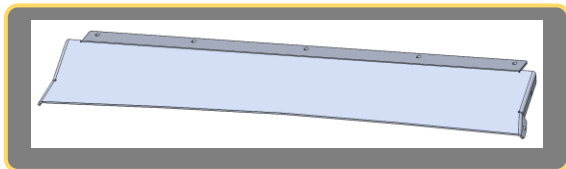
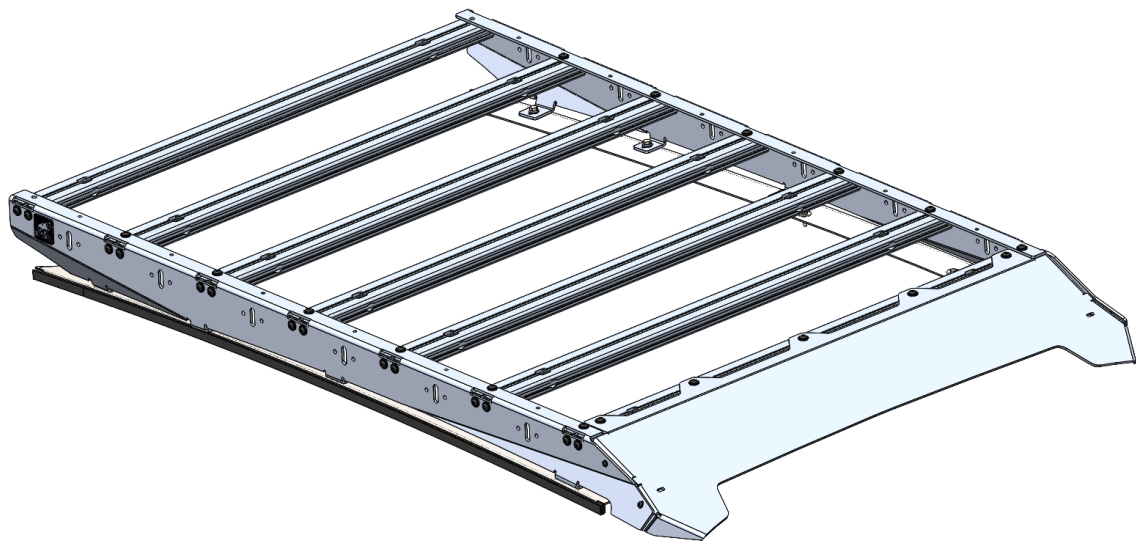
The following tools will be required to install the product.

Hand Tools	Power Tools	Workshop Equipment
<ul style="list-style-type: none">-T30 Torx Bit-10mm Spanner-10mm Socket and ratchet driver-13mm Spanner-13mm Socket and ratchet driver-5mm Allen Key-Side Cutters-Flat screw driver M6 Tap (recommended only)		WD40

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. Lay all parts out as shown ready to be bolted together. Ensure all parts are present.

(Note there are 2x types of wind deflectors, the one you get depends on the production batch)

TOOLS REQUIRED**FASTENERS**



2. Peel off top section of factory rail as shown.

TOOLS REQUIRED**FASTENERS**



3. Repeat for other side to reveal 4 screws per side.	TOOLS REQUIRED
	FASTENERS



4. Remove the four screws with a T30 Torx bit.

TOOLS REQUIRED

T30 Torx bit

FASTENERS

Discard



5. Clean out your roof buttons / rivnut threads with a M6 tap to make sure they are clear of residual Loctite that would cause over torque of the rivnut (may even spin it) without achieving the desired rail to rivnut clamping force.

A wire brush may also help remove some of the built-up rust.

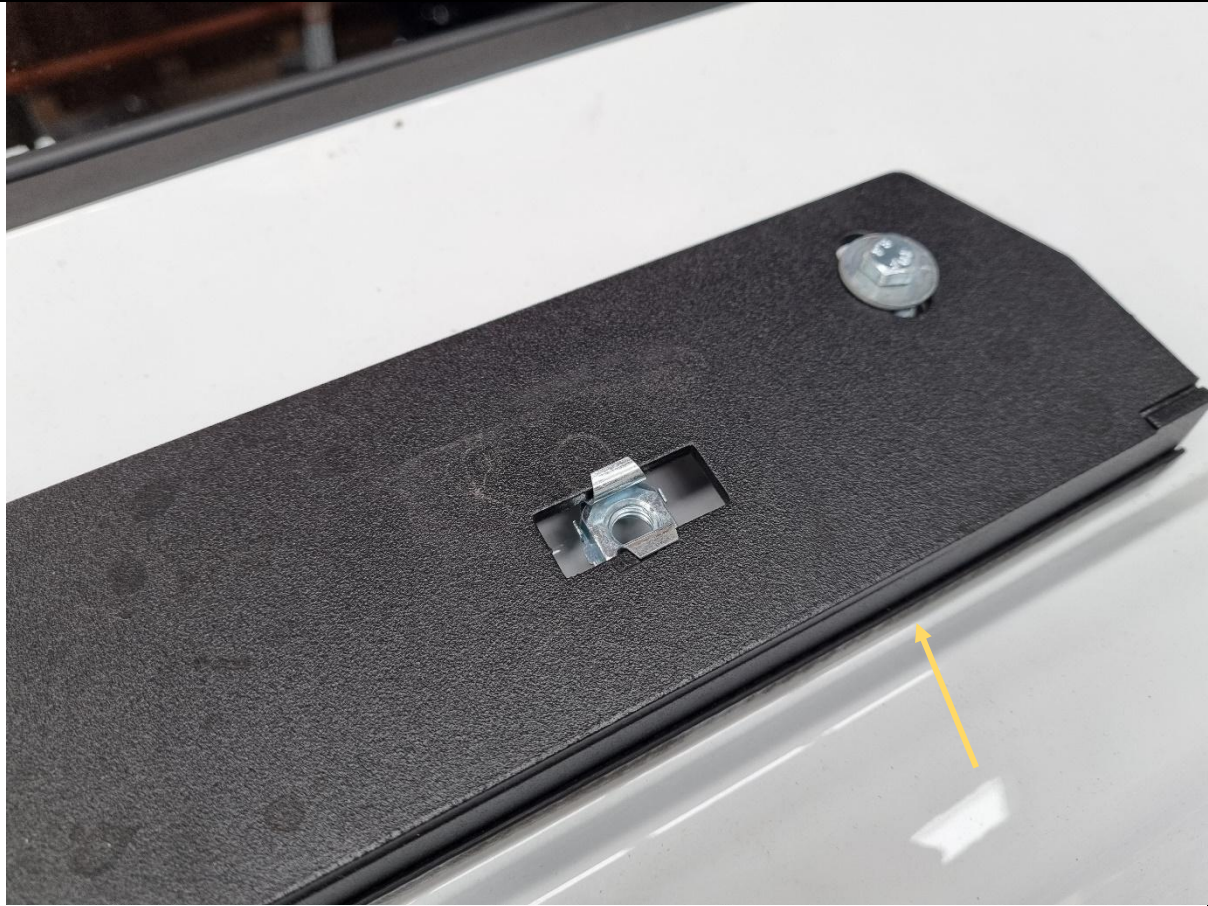
The rivnuts are a known weakness on the Grand Cherokee and excessive torque, or loosening a rusted thread, has been known to cause some rivnuts to spin. Once the rivnut threads are clean and dry, and you are ready to install, also consider applying some kind of anti-seize thread lubricant to the bolts we supply.

6. Push the rail forward then lift off.
7. Repeat for other side.

TOOLS REQUIRED

M6 tap

FASTENERS



8. Push pinch weld on to short side of steel roof rails (see arrow above). This pinch weld protects your roof. Trim the pinch weld to match the length of the rail and repeat for the other side.
9. Fit M8 Cage nuts as shown into roof rails. You can do this by pinching the legs together and fitting them into the rectangular slots. Or use a flat head screwdriver to push one leg in with the other one resting against the edge of the rectangular slot.

TOOLS REQUIRED

Side Cutters
Flat head screwdriver

FASTENERS

12x M8 Cage nuts



10. Loosely fit Rails to roof with M6x25 Hex bolts and mud guard washers. Do not torque down yet. 6x per side. Take care not to strip thread and advised to spray WD40 or similar in thread first.

Put one small black HPDE rubber spacer on top of each roof button. These sit between the roof button and the steel rail.

11. Do not tighten using any kind of power tool on the M6 bolts threaded into the roof nutserts, or the M8 bolts threaded into the cage nuts supplied by Offroad Animal. Hand tools are much better to reduce risk of over torquing the rivnuts and to provide the control desired.

TOOLS REQUIRED

WD40

FASTENERS

12x M6x25 hex bolts
12x M6 mud guard washers
12x HPDE rubber spacers



12. Insert 1x M8 nut into the top T-slot of each extrusion end.

13. Repeat for all 7x extrusions.

TOOLS REQUIRED

5mm Hex Key

FASTENERS

14x M8 hex nut



14. 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.
15. 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.
16. Leave all bolts finger tight at this stage.

TOOLS REQUIRED

5mm Hex Key

FASTENERS

14x M8x16 BHCS Black
28x M8x20 BHCS Black
42x M8 FW Black



17. Insert 5x M8 nuts into the top T-slot of the front extrusion, for the light bar wind deflector.

18. If you have received the newer B-1330 wind deflector, there are holes to suit most 40-42" light bars. If choosing to fit one, do so now.

TOOLS REQUIRED**FASTENERS**

5x M8 hex nut



19. Put wind deflector on with M8x16 button head cap screws and flat washers on the top and secure the sides with M6x25 button head cap screws, flat washers, and flange nuts.

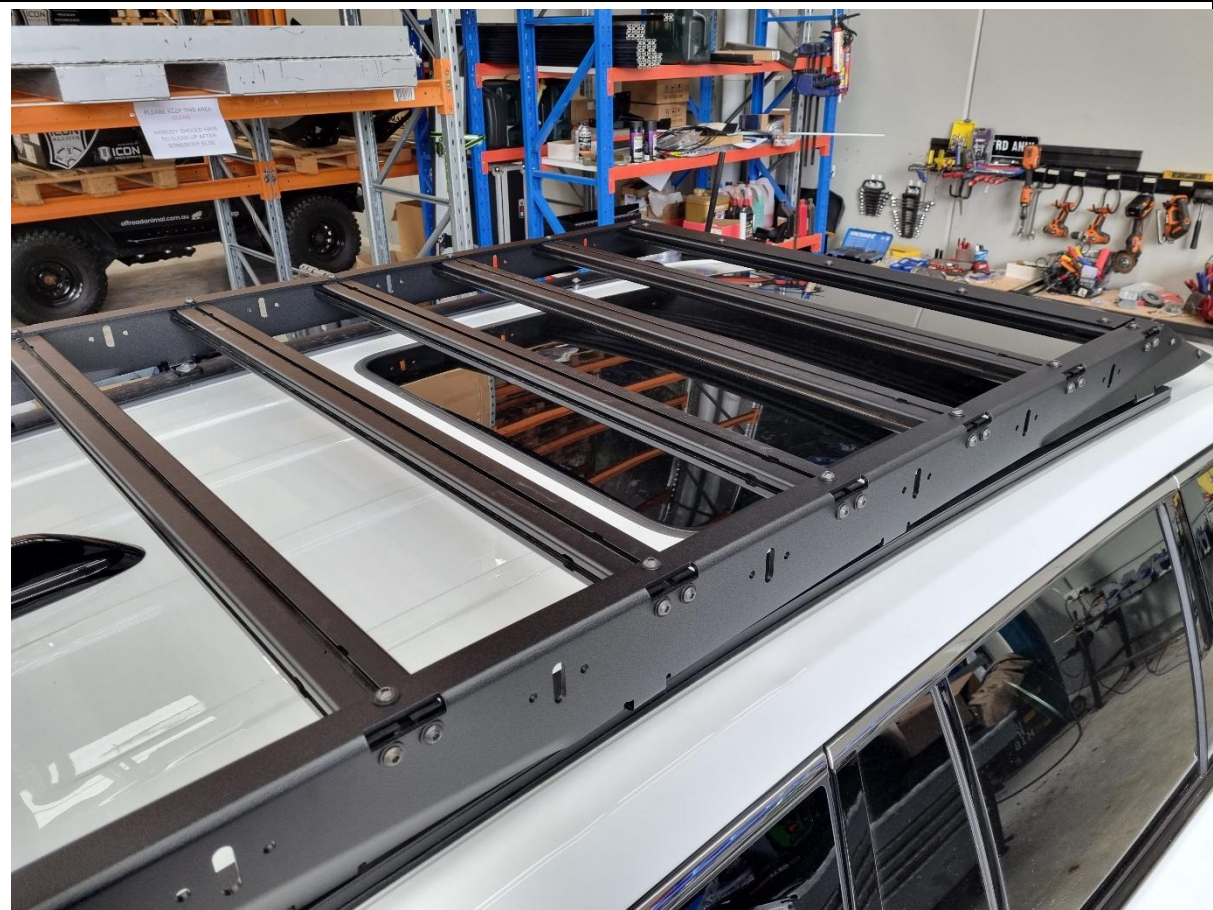
20. Torque down all bolts by hand on the roof rack.

TOOLS REQUIRED

4/5mm hex key

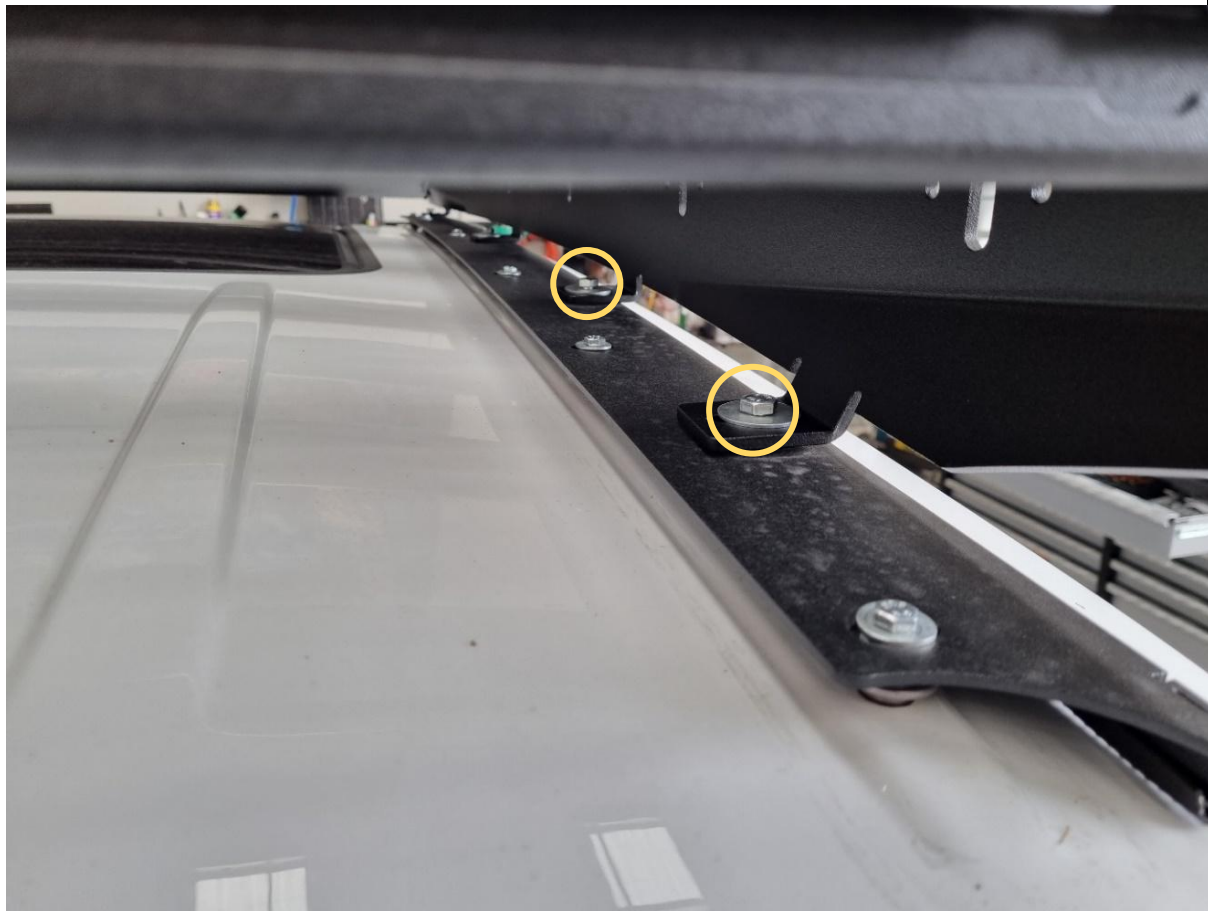
FASTENERS

4x M6x25 BHCS Black
4x M6 Washer Black
4x M6 Flange nut
5x M8x16 BHCS Black
5x M8 Washer Black



21. With the help of a friend lift the roof rack on to the roof.

TOOLS REQUIRED**FASTENERS**



22. Fit M8 x 25 Hex bolts with heavy duty washer through roof rack and into steel rail with cage nut.

23. Once all the M8 bolts are loosely fitted, push the steel rail towards the centre of the car as far as it will go.

24. Torque down all M6 bolts by hand holding steel rail on to roof.

25. Torque down all M8 bolts holding roof rack on to the steel rail.

TOOLS REQUIRED

10mm Spanner
13mm Spanner

FASTENERS



26. If your vehicle is equipped with a sunroof, check to ensure there is clearance to the roof rack in fully open/tilt positions. Adjust the roof rack position fore/aft or up/down with spacer washers if necessary.

TOOLS REQUIRED**FASTENERS**



27. The roof rack is now on. Feel free to mount all matter of goodies up there. Offroad Animal has dedicated accessories to fit which can be found on our website www.offroadanimal.com or www.offroadanimal.com.au

28. Competitor products will also fit, but may require drilling.

TOOLS REQUIRED**FASTENERS**