



## Goat Rack FITTING INSTRUCTION

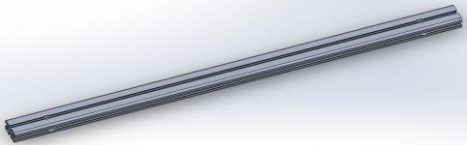
### **IMPORTANT! – READ BEFORE INSTALLATION.**

- 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 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.
- It is the duty of the installer/owner to investigate if Tub strengthening is required when fitting a canopy to the tub of the vehicle

## 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
2	E-0005 - 1300	Scout Roof Rack – Cross Bar Extrusion 1300MM	
3	E-0005-1250	Scout Roof Rack – Cross Bar Extrusion 1250MM	
6	E-0005-370	Scout Roof Rack – Cross Bar Extrusion 370MM	
3	E-0005-1545	Scout Roof Rack – Cross Bar Extrusion 1545MM	
2	TB750PL	Polypropylene Tool box	
1	9-013037-01	L HANDLE	
1	3-18794	ROD LATCH	
1	DSCHMD1050MML SET	1050 MEDIUM DRAWER RUNNER SET LOCKING	

2	10MM PIPE SADDLE	10MM PIPE SADDLE	
1	PW-P-14X9-1180	Pinch Weld - Plain 14X9MM, Rubber, 1180mm Length	
1	B-0596R	EDGE PLATE RH	
1	B-0596L	EDGE PLATE LH	
2	B-0594R	END CAP RH	
2	B-0594L	END CAP LH	
2	B-0595	T JOIN	
2	B-0612L	REO T BRACKET	
2	P-0237	72 DEG RIB	



GR-MED-COM-ASM0  
Fitting Instruction

Medium Goat Rack

2	B-0597	PLATFROM	
1	B-0604R	RACK INTERNAL BRACE RH	
2	B-0605	TOOL BOX LOWER SUPPORT	
1	B-0606	DRAWER	
1	P-0189	WINDOW	
1	B-0602L	ROD CATCH LH	
1	B-0602R	ROD CATCH RH	
1	B-0599	DOOR BRACE	
1	B-0598	REAR DOOR	



GR-MED-COM-ASMO  
Fitting Instruction

Medium Goat Rack

2	B-0603	STRUT SUPPORT	
1	B-0604L	INTERNAL BRACE LH	
4	P-0108	ROLLER SHUTTER T SLOT NUT	
8	P-0127	RHINO TRACK NUT PLATE M6	
4	P-0269	STAY OPEN ARM	
2	Butt Hinge	Butt Hinge	
2	GSK15-280-150N	Gas Struts 280mm long with 150N force	
2	PWS-TOP-280	Pinch weld top bulb 280mm long	
2	L Track 1200	Tie Down L track 1200mm long with hooks	



## Fastener Kit

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	M8 X 12 BHCS BZP	SCREW, BUTTON HEAD CAP, M8X12X1.25 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH	84
2	M8 NUT	Hex Nut, M8x1.25 G8.8 ZP	88
3	M8 HD FLAT WASHER - BZP	M8 FLAT WASHER - High Tensile 19x8x2mm, ISO4042 ZnNi BLACK PASSIVATED FINISH	84
4	M6x12 BHCS	SCREW, BUTTON HEAD CAP, M6X12X1 GR12.9 ZP	4
5	M6 FLAT WASHER BLACK ZINC	M6 Flat Washer, 12x6.1x1, ISO4042 ZnNi BLACK PASSIVATED FINISH	46
6	M6x20 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M6X20X1 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH	32
7	M6 NYLOC	NYLOC SELF LOCKING NUT, ST STL A2 ISO	4
8	M8 FLAT WASHER- BLACK ZINC	M8 FLAT WASHER, 16.5x8.4x1.2, ISO4042 ZnNi BLACK PASSIVATED FINISH	8
9	M8 X 20 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M8X20X1.25, ISO4042 ZnNi BLACK PASSIVATED FINISH	8
10	M6 FLANGE NUT	Flange Nut, M6x1 G8.8 ZP	48
11	M8 X 30 HEX	Bolt Hex, M8X30X1.25, GR8.8 ZP	12
12	M8 HD FLAT WASHER	M8 FLAT WASHER - High Tensile 19x8x1.9mm	12
13	M8 FLANGE NUT	Flange Nut, M8x1.25 G8.8 ZP	12
14	M8 X 20 HEX	Bolt Hex, M8X20x1.25, GR8.8 ZP	12
15	M8 SPRING WASHER	M8 SPLIT SPRING WASHER - High Tensile 14.8OD 2mm Thick	8
16	M8 FLAT WASHER	M8 FW	13
17	M8 NYLOC	NYLOC SELF LOCKING NUT, ST STL A2 ISO	5
18	M8 X 40 HEX	Bolt Hex, M8X40X1.25, GR8.8 ZP	5
19	M6 X 12 CSK	SCREW, COUNTERSUNK CAP, M6X12X1 ZP	10
20	M6x16 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M6X16X1 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH	10
21	M5X15 BHCS	SCREW, BUTTON HEAD CAP, M5X15X0.8 GR12.9 ZP	8
22	M5 FLANGE NUT	Flange Nut, M5x0.8 G8.8 ZP	10
23	M5 Flat washer BZP	M5 Flat Washer, 10x5.3x1, ISO4042 ZnNi BLACK PASSIVATED FINISH	8
24	HDPE SPACER- BLACK	HDPE SPACER - OD 20 X ID 8 X 5MM THICK BLACK	4
25	M8 NYW	Washer, M8, Nylon	4
26	8Gx15, Pan Screw	SCREW, PAN HEAD PHILLIPS, M5X15 GR4.6 ZP	8
27	M5 X 20 CSK	SCREW, COUNTERSUNK CAP, M5 X 20 X 0.8 ZP	2



# TOOLS REQUIRED

The following tools will be required to install the product. Note Extra Tools will be required for fitment of track kit. Refer to track kit

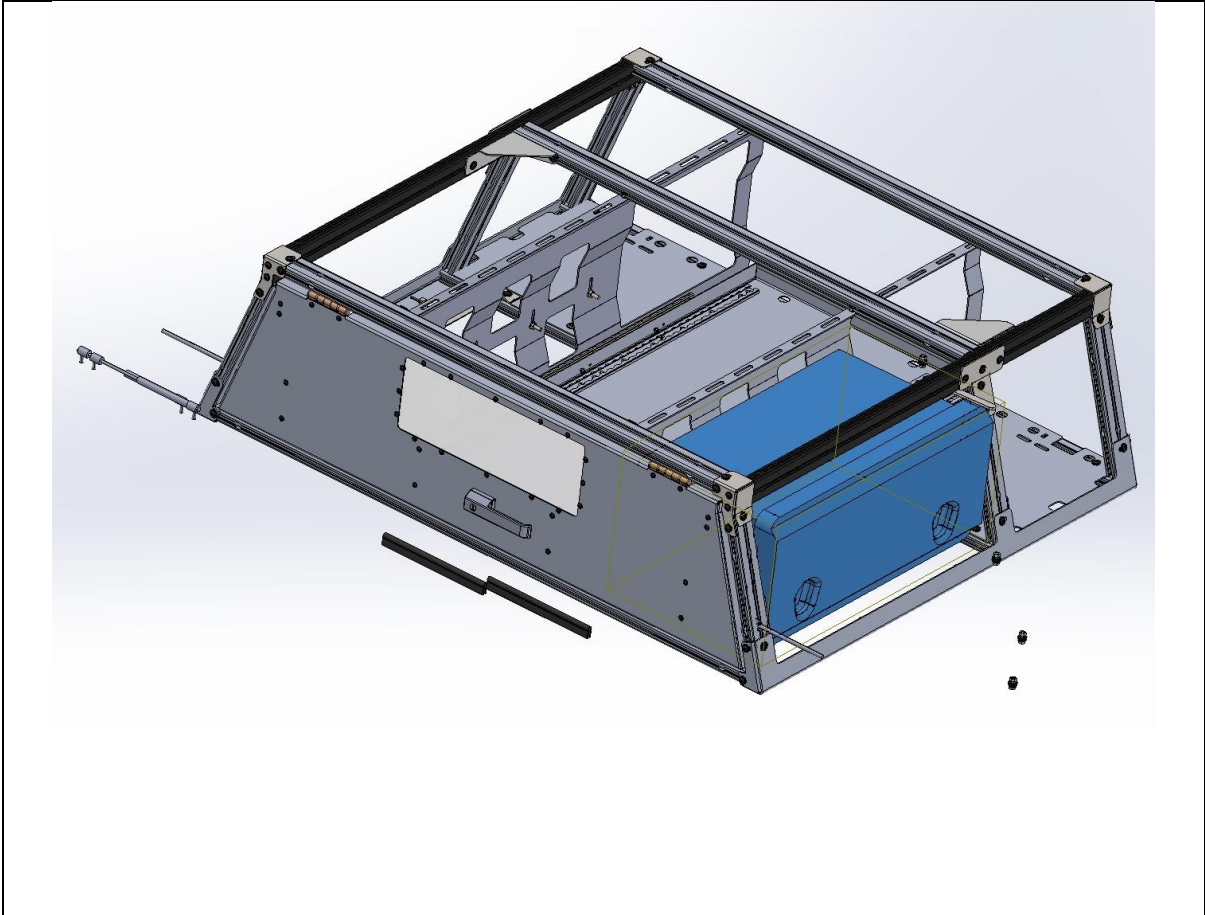
<b>Hand Tools</b>	<b>Power Tools</b>	<b>Workshop Supplies</b>
Metric Socket Set 8-19mm Socket Extension Bar Metric Spanner Set 10-19mm Hex (Allen) Key Set 4-6mm	Power Drill	Automotive/ All-purpose Grease  10mm Drill Bit  Paint Pen or Felt pen

# 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. First, make sure you have everything in the list above before you start.

**TOOLS REQUIRED**

**FASTENERS**



2. Fit the 1545mm extrusion to part B-0596L and B-0596R. Use M8 x 12 Black Button head cap screw washer, then using the M8 washer in the T slot.
3. Repeat for other end so you have a box frame
4. Leave finger tight

**TOOLS REQUIRED**  
5MM Hex Key

**FASTENERS**

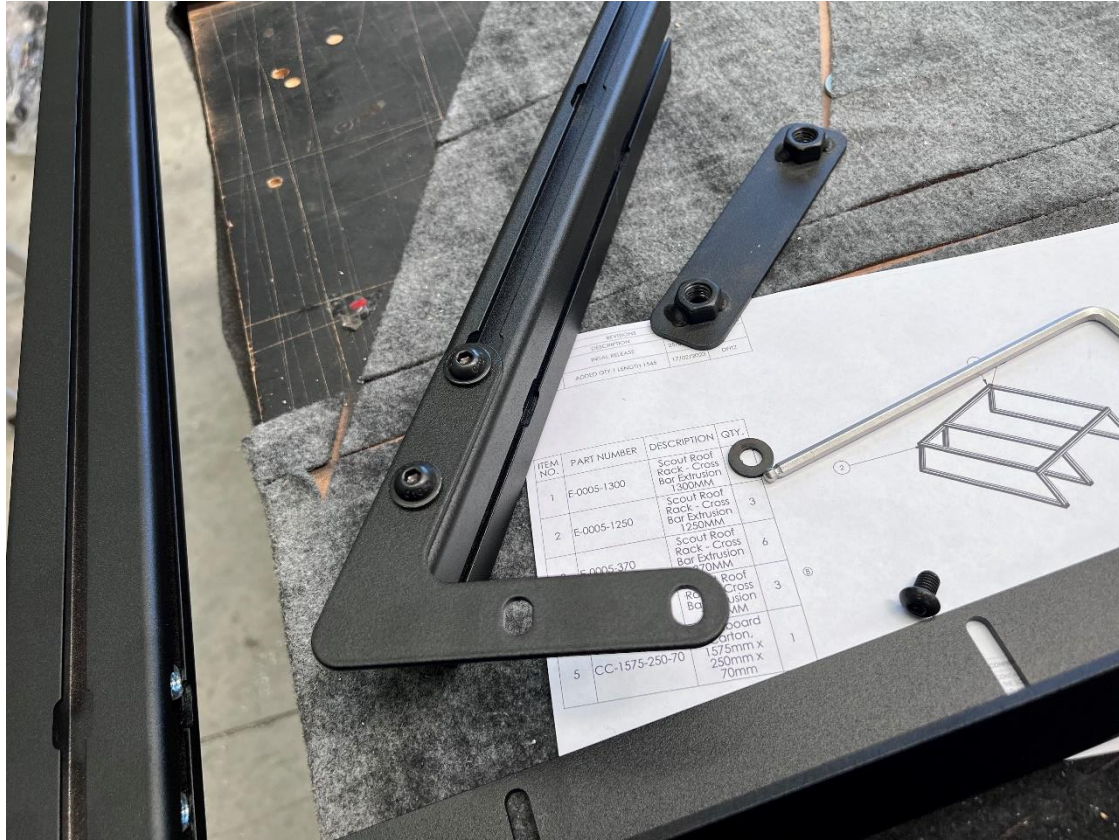
4x M8x12 Button head bolt.  
4x M8 Flat Washer  
4 x M8 nut



5. Place 3<sup>rd</sup> piece of 1545mm extrusion on as shown and grab part P-0237

**TOOLS REQUIRED**  
5MM Allen Key

**FASTENERS**  
5x M8 Nuts  
5x M8x12 Button head bolt  
5x M8 Black Washer  
  
Per Side



6. Fit P-0237 to 370mm (or 350mm if supplied) as shown
7. Repeat for other side, but opposite end so they are handed

**TOOLS REQUIRED**  
5mm Hex Key

**FASTENERS**  
4x M8x12 Button head bolt.  
4x M8 Flat Washer  
4 x M8 Nuts



Step 9



8. Position the 370mm (or 350mm if supplied) extrusion with P-0237 as shown.
9. Easy way to fit bolt is to feed bolt and washer into the outside part then thread on the nut very loosely so you can then slider the extrusion in to place
10. Leave all bolts finger tight

**TOOLS REQUIRED**  
5mm Hex Key

**FASTENERS**

2x M8x12 Button head bolt.  
2x M8 Flat Washer  
2x M8 nuts



11. Secure the cross 1545mm extrusion piece with part P-0237 as shown. Part P-0237 goes on the long side
12. Repeat for other side
13. Leave all bolts finger tight

**TOOLS REQUIRED**

5mm Hex Key

**FASTENERS**

4x M8x12 Button head bolt.  
4x M8 Flat Washer  
4x M8 nuts



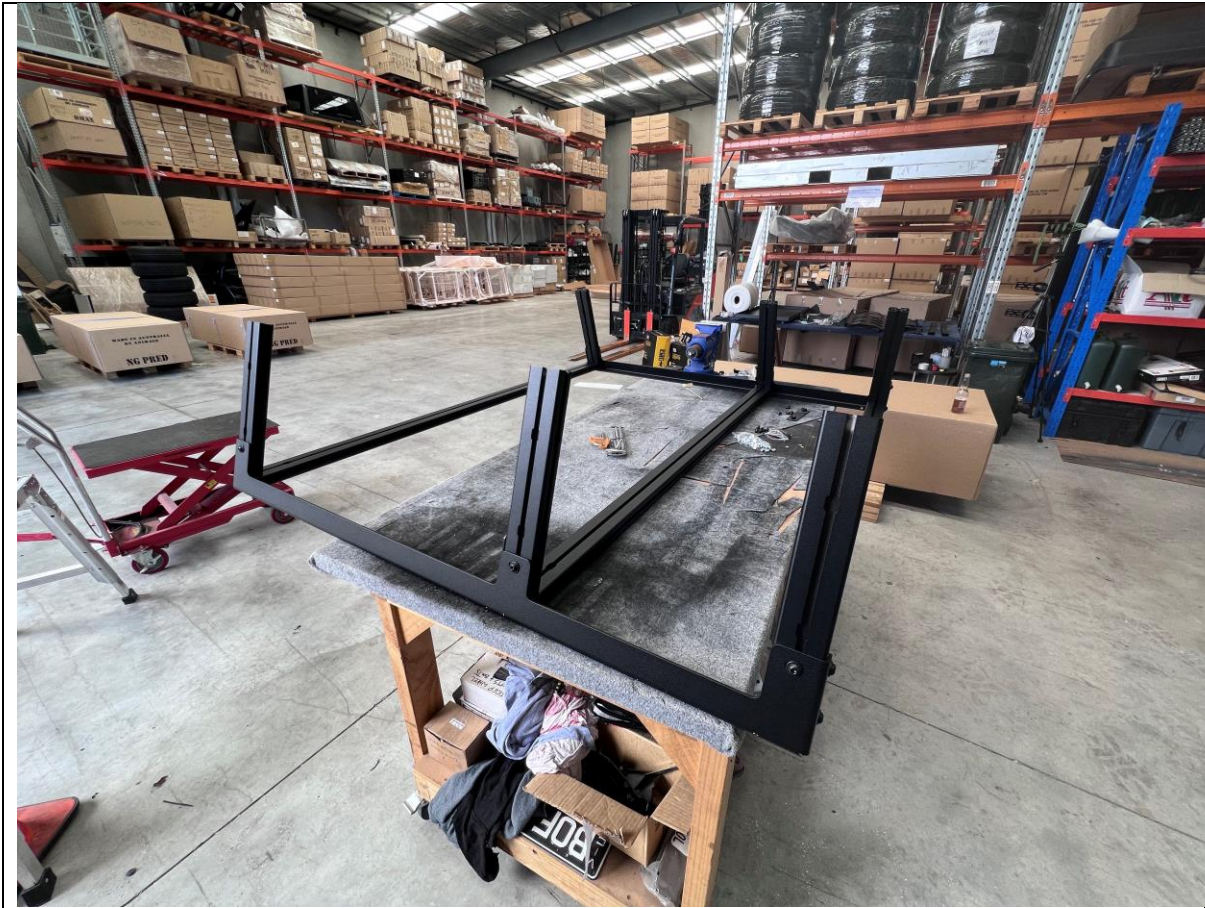
14. For each corner thread in 2 x M8x12 BHCS washers and nuts as shown

**TOOLS REQUIRED**

**5mm Hex Key**

**FASTENERS**

8x M8x12 Button head bolt.  
8x M8 Flat Washer  
8x M8 nuts



15. Insert remaining four 370mm (or 350mm if supplied) uprights as shown.
16. If using 350mm extrusion, then lift it 10mm off the bottom extrusion.
17. Leave all bolts finger tight

**TOOLS REQUIRED**

**5mm Hex Key**

**FASTENERS**





18. Position B-0597 on to the frame as shown.
19. Also insert 2 extra nuts into each 1545mm extrusion and push them in to the middle as they'll be used very soon.
20. Insert M8x 12 BHCS and washers into 4 of the holes. You can leave the other ones for M8 Eye bolts if you prefer as only 4 bolts are needed to hold down the plate
21. Leave all finger tight
22. Note these may need to come off later depending on how you're mounting it to the vehicle

**TOOLS REQUIRED**  
**5mm Hex Key**

**FASTENERS**  
8x M8x12 Button head bolt.  
8x M8 Flat Washer  
14x M8 nuts



23. Position B-0605 as shown, and secure with M8-12 BHCS, washer and nut at either end
24. Leave finger tight

**TOOLS REQUIRED**  
**5mm Hex Key**

**FASTENERS**  
4x M8x12 Button head bolt.  
4x M8 Flat Washer  
4x M8 nuts



25. Prepare parts 2 RH and 2 LH B-0594L/R and 2 x B-0595 as shown with M8x12 Button Head Caps screws, washers and Nuts

**TOOLS REQUIRED**  
5mm Hex Key

**FASTENERS**  
12x M8x12 Button head bolt.  
12x M8 Flat Washer  
12x M8 nuts



- 26. Position parts from Step 24 as shown on uprights.
- 27. Leave finger tight.

**TOOLS REQUIRED**  
**5mm Hex Key**

**FASTENERS**



28. Position 1300mm extrusion on the sides as shown, and secure with M8x20 Button head cap screws and washers into threaded ends
29. Leave all bolts finger tight.

**TOOLS REQUIRED**  
**5mm Hex Key**

**FASTENERS**  
8x M8x12 Button head bolt.  
8x M8 Flat Washer  
14x M8 nuts



30. Place 3 nuts per side as shown, and lift part B-0595 up to them and thread in corresponding M8x12 BHCS with washers.
31. Repeat for other side

**TOOLS REQUIRED**  
5mm Hex Key

**FASTENERS**  
6x M8x12 Button head bolt.  
6x M8 Flat Washer  
6x M8 nuts



32. Position B-604L and B-604R as shown.
33. Secure with extra nuts in the middle of the base frame from step 19
34. Leave all bolts finger tight.

**TOOLS REQUIRED**  
**5mm Hex Key**

**FASTENERS**  
6x M8x12 Button head  
bolt.  
6x M8 Flat Washer



35. Fit 3 x 1250mm Extrusion sections to the top of the frame as shown.
36. Fit nuts to 1300mm extrusion and secure with M8x12 BHCS and washers and nuts as shown. To B-0604L and B-0604R
37. Use 2 x M8x12 BHCS washers and nuts per corner to attached these 1250mm extrusion to the corner pieces B-0594R/L
38. Leave all bolts finger tight

**TOOLS REQUIRED**  
**5mm Hex Key**

**FASTENERS**  
14x M8x12 Button head bolt.  
14x M8 Flat Washer  
14x M8 nuts





39. Position B-0612L on to the frame as shown feeding in 2 x M8 x 12 BHCS nuts bolts and washers per end.
40. Leave finger tight.

**TOOLS REQUIRED**  
5mm Hex Key

**FASTENERS**  
4x M8x12 Button head bolt.  
4x M8 Flat Washer  
4x M8 nuts



- 41. Secure B-0612L with 2 more M8 x 12 BHCS washers and nuts as shown
- 42. Leave these fingers tight

**TOOLS REQUIRED**  
5mm Hex Key

**FASTENERS**  
4x M8x12 Button head bolt.  
4x M8 Flat Washer  
4x M8 nuts



43. Position Drawer runners on to B-0604R/L as shown.
44. The lever to release the lock should be in the up position and then pushed down to unlock the runner.
45. Secure with M6x16 Button Head Cap Screws Washers and Flange nuts
46. Torque screws

**TOOLS REQUIRED**  
**4mm Hex Key**

**FASTENERS**  
10x M6x16 Button head bolt.  
10x M6 Flat Washer  
10x M6 Flange nuts



47. You'll need to open each runner to get to all the bolt holes

**TOOLS REQUIRED**

**FASTENERS**



- 48. Position B-0606 on the drawer runners and secure with M5 Button Head Cap Screws and Flange nuts
- 49. You'll need to open the runners to get to all the bolt holes.
- 50. Torque down screws

**TOOLS REQUIRED**  
**5mm Hex Key**

**FASTENERS**  
8x M5x15 Button head bolt.  
8x M5 Flange nuts



51. Fit L Track as shown with M6 Counter Sunk Bolts and Flange nuts
52. Repeat for other side.
53. Torque down fasteners

**TOOLS REQUIRED**  
**5mm Hex Key**

- FASTENERS**
- 10x M6c12 Counter Sunk screw.
  - 10x M6 Flat Washer
  - 10x M6 Flange nuts



- 54. Fit L handle as shown with M5 counter sunk screws and flange nuts
- 55. Torque bolts

**TOOLS REQUIRED**  
**3mm Hex Key**

**FASTENERS**  
2x M5x20 CSK  
8x M8 Flat Washer  
14x M8 nuts



- 56. Position B-0599 as shown and secure with M6 BHCS washers and flange nuts on the inside
- 57. Torque Screws

**TOOLS REQUIRED**  
**4mm Hex Key**

**FASTENERS**  
8x M6x16 Button head bolt.  
8x M6 Flat Washer  
8x M6 Flange nuts





58. Position Rod latch as shown and secure with 8G screws  
59. Position the U shaped saddles on the ends to secure the rods in place outside of the middle with the same screws

**TOOLS REQUIRED**  
Phillips driver

**FASTENERS**  
8x 8Gx15 self taper screws



60. Place M6 rectangular nuts P-0127 into the top extrusion as shown, these will support the hinge for the door

**TOOLS REQUIRED**

**FASTENERS**



61. Fit hinges as shown (inside of the door) with M6 Button head Cap screws washers and flange nuts

**TOOLS REQUIRED**  
4mm Hex Key

**FASTENERS**  
8x M6x16 Button head bolt.  
8x M6 Flat Washer  
4x M8 Flange nuts



62. Position B-0602L and B-0602R on the back extrusion as shown
63. Adjust it so that the Rod latch rods run through the slot in the bracket. Once the position is set and the rod runs smoothly when operating the L handle, add a dab of grease to the bracket and the rod to prevent squeaking/rattling.
64. Fit Strut ball joint to top of bracket as shown.
65. Repeat for the other side

**TOOLS REQUIRED**  
5mm Hex Key  
Grease

**FASTENERS**  
4x M8x12 Button head bolt.  
4x M8 Flat Washer  
4x M8 nuts



- 66. Fit B-0603 as shown with M6 BHCS washer and flange nuts
- 67. Torque bolts
- 68. Fit Ball joint
- 69. Repeat for other side

**TOOLS REQUIRED**  
**4mm Hex Key**

- FASTENERS**
- 4 x M6x16 Button head bolt.
  - 4 x M6 Flat Washer
  - 4x M6 nuts



- 70. Fit pinch weld as shown.
- 71. Fit strut as shown to
- 72. Repeat for other side

**TOOLS REQUIRED**

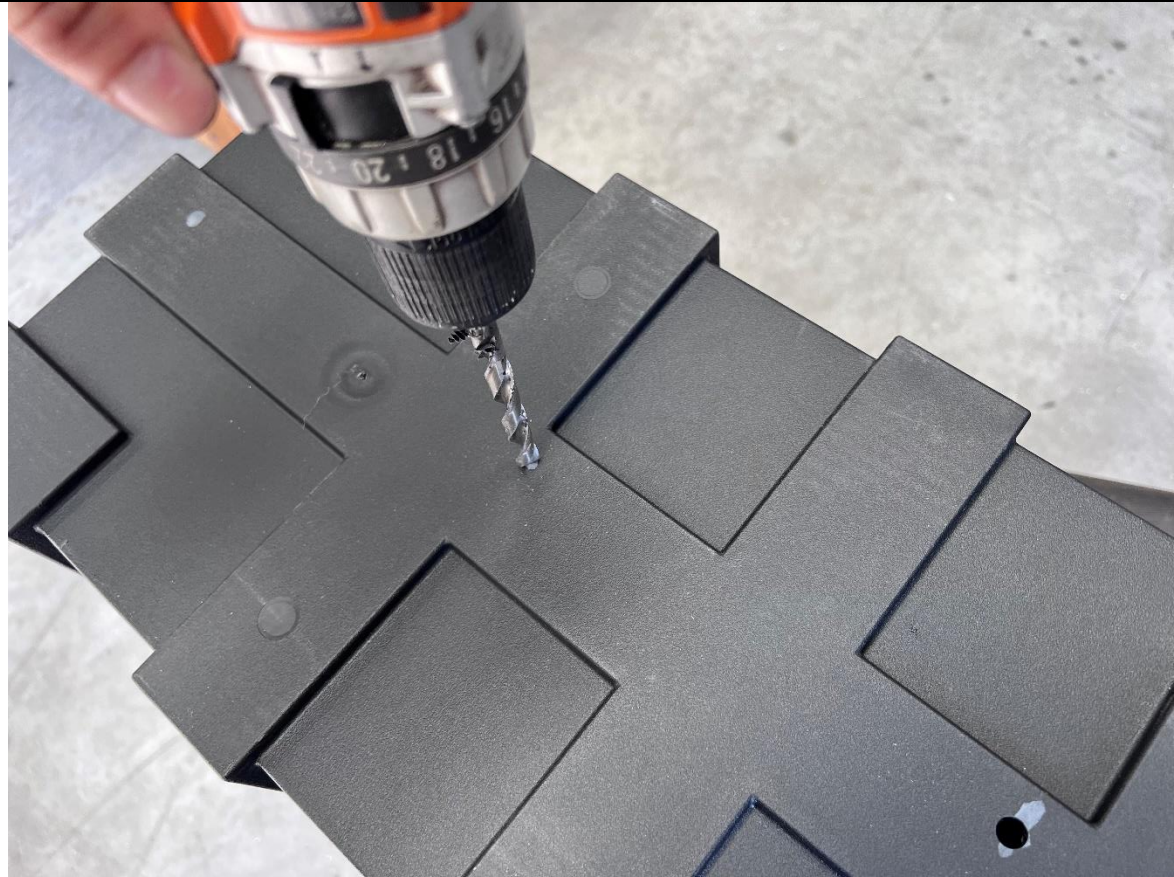
**FASTENERS**



73. Loosely fit 2 x P-0269 per side (these hold up the lid to the toolbox. Once the toolbox is on you can torque them down. The order is Bolt, small nylon washer, metal bracket, then fat nylon washer into nut  
74. Repeat for other side

**TOOLS REQUIRED**  
**13mm spanner**

- FASTENERS**  
4x M8x20 Hex bolt.  
4x M8 Flat nylon Washer  
4x M8 nuts  
4 x M8 Nylon spacer



75. Put Toolbox up to the Goat rack in its place and while holding it in place get someone to mark all the mounting holes from the other side.
76. Drill 10mm holes for each mark. 4 for the back and 2 for the bottom.
77. Repeat for other tool box

**TOOLS REQUIRED**  
**Felt Pen or Paint Pen**  
**Power Drill**  
**10mm Drill bit**

**FASTENERS**





- 78. Lift the Goat Rack onto the vehicle.
- 79. If fitting on a roller shutter you can use our supplied square nuts, or you may need to source different ones depending on the type required to suit the specific roller shutter you have. If not fitting to a roller shutter skip to step 81

**TOOLS REQUIRED**

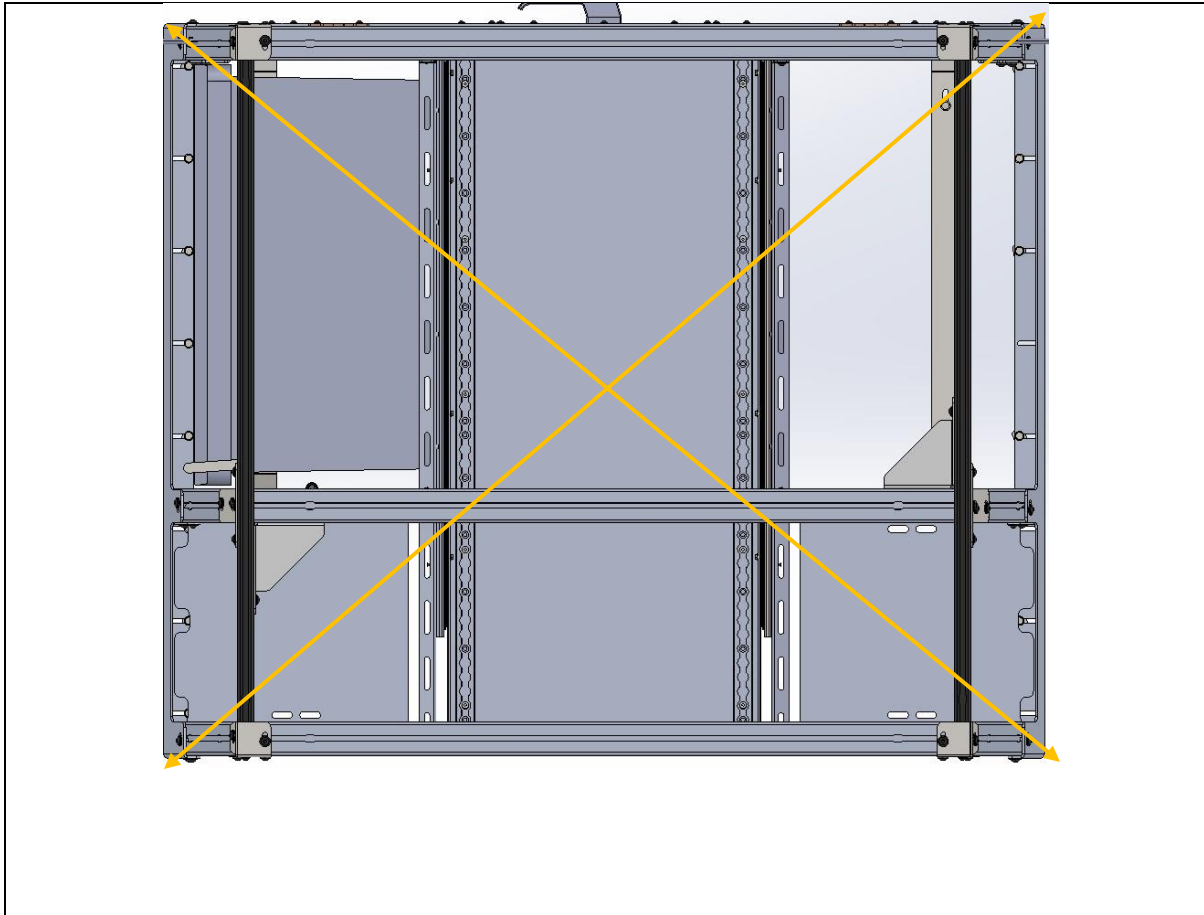
**FASTENERS**



80. If your roller shutter has a large handle that will not clear the bottom of the Goat rack let Offroad Animal know and we can supply, you with a spacer to suit.

**TOOLS REQUIRED**

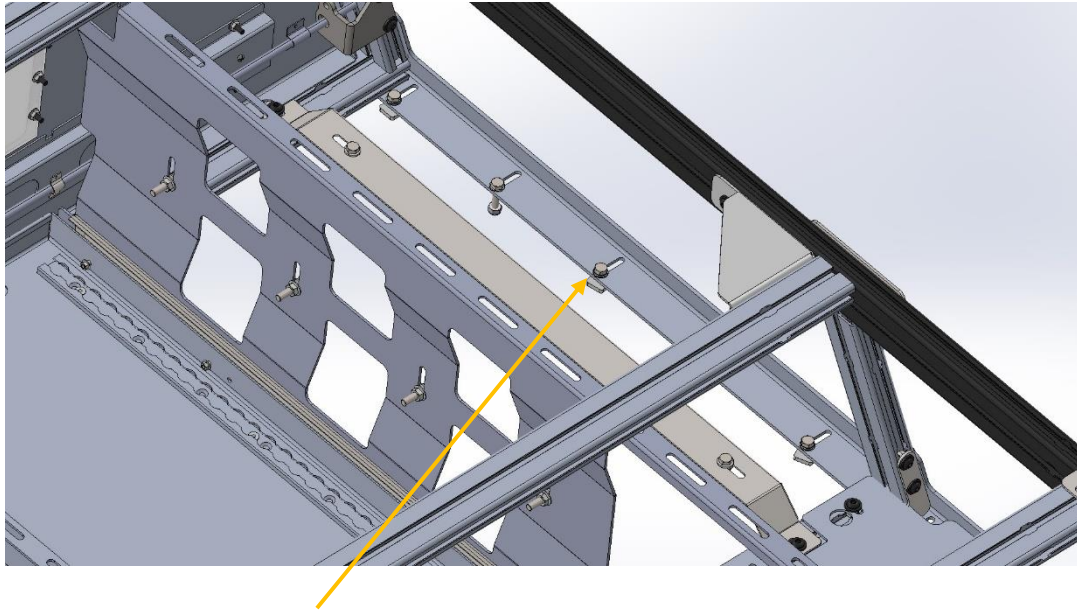
**FASTENERS**



81. Now is time to square up the rack. Measure the Diagonals on the top of the rack.
82. Compare the two figures and push/pull the rack into position while all the screws are loose until you have no more than an 8mm difference between the two dimensions.
83. Once into shape, torque down all the finger tight screws. Take care not to miss any.

**TOOLS REQUIRED**  
5mm Hex Key  
Tape Measure

**FASTENERS**



84. If you're Ute requires a tub brace kit for any extra weight like a canopy, make sure this is already fitted.
85. If you haven't already, then lift the rack onto the back of the Ute and push it forward allowing for at least a 50mm gap to the back window.
86. If no roller shutter is required, mark at least 3 holes per side in the slots (spread as evenly as possible) Drill holes and secure down to the top of the tub
87. If using a roller shutter match at least 3 points per side (as evenly as possible) and secure down.

**TOOLS REQUIRED**  
**13mm socket and spanner**

**FASTENERS**  
6x M8x40 Hex head bolt.  
6x M8 Flat Washer  
6x M8 Nyloc nuts



1. Make sure everything works, like pull out tray, toolbox lids, rear door.
2. Fit Roof top tent now if required.
3. Fit jerry can holders now if required.
4. Fit awning now if required
5. Enjoy

**TOOLS REQUIRED**  
**5mm Hex Key**

**FASTENERS**  
6x M8x40 Hex head bolt.  
6x M8 Flat Washer  
6x M8 Nyloc nuts

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