



MEDIUM AUSSIE UTES
UNIVERSAL FIT
ACTUALLY USEFUL SPORTS BAR

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.
- **ESTIMATED FITTING TIME 3 HOURS**

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.

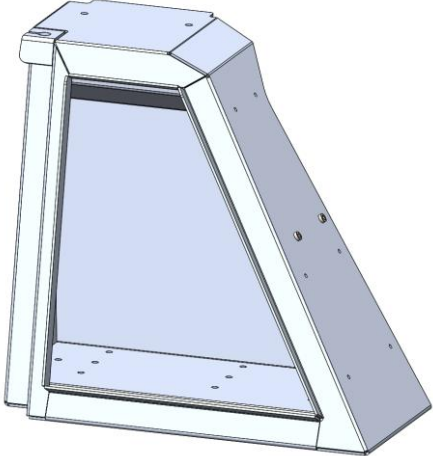
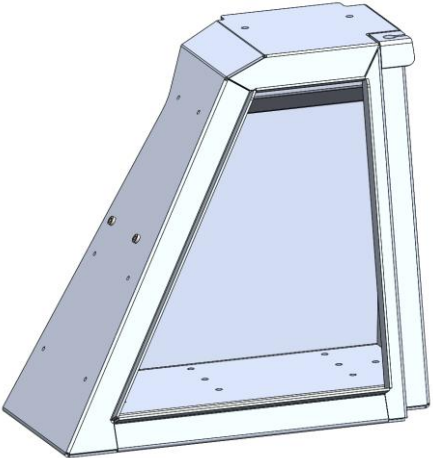
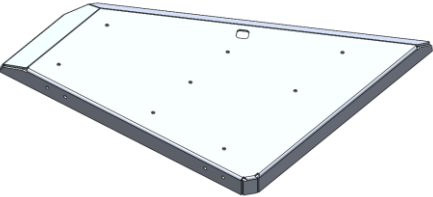
FRONT BAR MOUNTS AND TOW POINTS + REAR TOWBAR	
Size	Torque Nm
M10	57 Nm
M12	100 Nm
M14	164 Nm
M16	248 Nm

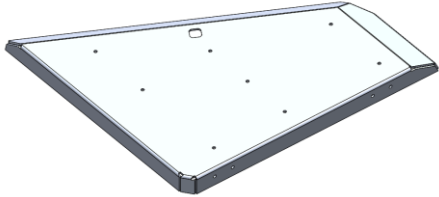
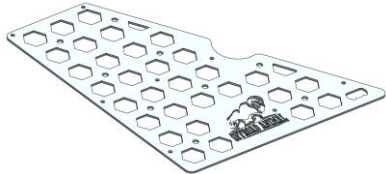
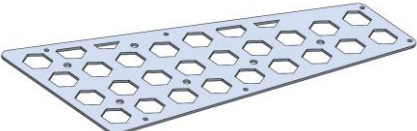
Always use a torque wrench to set correct torque settings. Ensure torque wrench is set to Nm unit of measurement. Otherwise perform conversion to lb-ft.

PARTS LISTING

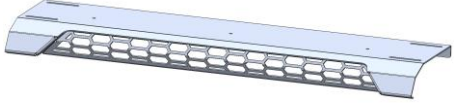
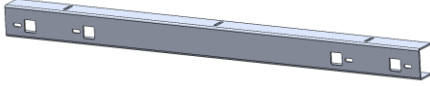
IMPORTANT: Check all parts are present before beginning work! Contact OFFROAD ANIMAL if something is missing.

SB-COM-BOX-KIT Parts (Included as Standard)

Qty	Part Number	Description	Image
1	SB-COM-BOX-ASM1L	Storage Box Welded Assy LH	
1	SB-COM-BOX-ASM1R	Storage Box Welded Assy RH	
2	SB-COM-BOX-ASM2	Sports Bar Mount Welded Assembly	
1	B-1141L	Storage Box Door LH	

1	B-1141R	Storage Box Door RH	
1	P-0357	Storage Box Door Accessory Panel LH	
1	P-0358	Storage Box Door Accessory Panel RH	
2	P-0359	Storage Box Rear Accessory Panel	
2	PWS-TOP-1350	Pinch Weld PWS51T - Top Bulb Seal 1350mm	
2	Diaphragm Grommet (Essentra 19429)	Diaphragm Grommet 19.0 mm 15.5 mm PVC	
4	Southco-C6-226	Southco C6-226 Positioning Hinge, 115°, Stainless Steel Detent Tube, Natural, Black	
2	Southco-E3-151-25	Southco E3-151-25 VISE ACTION® Compression Latch, Large Size, Wing, Zinc Alloy, Powder Coated, Black	
2	SS-32-21-500MM	SELF ADHESIVE EPDM SPONGE SECTION, 32 X 21 X 4, AMBASSADOR P/N AS925	

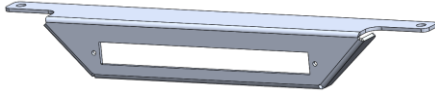
SB-COM-MED-LBKIT Parts (Included as Standard)

Qty	Part Number	Description	Image
1	SB-COM-MED-ASM1	Upper Cross Member Welded Assy - Medium	
1	B-1144	Light Bar Mount	

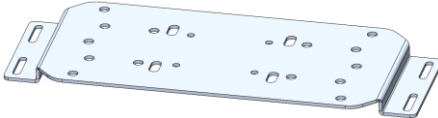
Cross Bar Kit Parts (Included as Standard)

Qty	Part Number	Description	Image
3	E-0006-1350	Scout Roof Rack – Cross Bar Extrusion 1350MM	

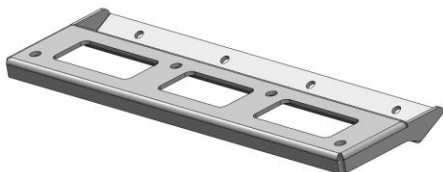
SB-COM-CHMSL-KIT Parts (Optional Extra)

Qty	Part Number	Description	Image
1	B-1148	CHMSL Mount	
1	LED Autolamps 235 Series Centre High Mount Stop Lamp	LED Autoclamps, 235 SERIES RECESSED MOUNT, Part No. 235R12	

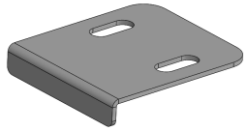
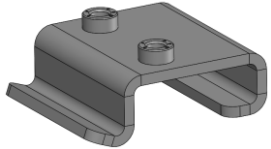
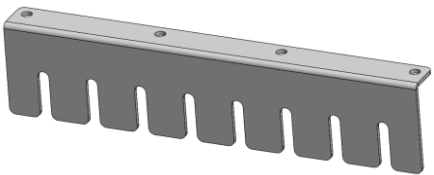
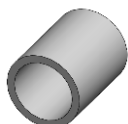
SB-COM-CMP-KIT Parts (Optional Extra)

Qty	Part Number	Description	Image
1	B-1149	Universal Air Compressor Mount Plate	

SB-COM-RSAN-KIT Parts (Optional Extra)

Qty	Part Number	Description	Image
2	B-1307	Roller Shutter Mount - Angled 26deg Version	

SB-COM-TC-KIT Parts (Optional Extra)

Qty	Part Number	Description	Image
4	B-1145	Tub Clamp Main	
4	B-1146	Tub Clamp Inner	
4	B-1512	Tub Clamp Tongue	
8	T-0155	Crush Tube 10mm L, 16mm OD x 1.6 WT	
8	T-0156	Crush Tube 20mm L, 16mm OD x 1.6 WT	
8	T-0157	Crush Tube 30mm L, 16mm OD x 1.6 WT	

SB-COM-BOX-KIT Small Parts – Contained in Small Parts Kit Bag

Qty	Part Number	Description
28	M5X10 BHCS	SCREW, BUTTON HEAD CAP, M5X10X0.8 GR12.9 ZP
16	M5X15 BHCS	SCREW, BUTTON HEAD CAP, M5X15X0.8 GR12.9 ZP
44	M5 Flat washer	M5 Flat washer
28	M5 FLANGE NUT	Flange Nut, M5x0.8 G8.8 ZP
16	M5 NYLOC	NYLOC SELF LOCKING NUT, ST STL A2 ISO
28	M5x10 Hex Spacer	806-6632 RS PRO Standoff, M5 x M5 Thread, 10mm Body, Brass, Male/Female, 8mm Stud
16	M6x16 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M6X16X1 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH
16	M6 FLAT WASHER BLACK ZINC	M6 Flat Washer, 12x6.1x1, ISO4042 ZnNi BLACK PASSIVATED FINISH
20	M8 X 12 HEX	Bolt Hex, M8X12x1.25, GR8.8 ZP
26	M8 X 12 BHCS BZP	SCREW, BUTTON HEAD CAP, M8X12X1.25 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH
4	M8 X 20 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M8X20X1.25, ISO4042 ZnNi BLACK PASSIVATED FINISH
20	M8 FLAT WASHER	M8 Flat Washer
30	M8 FLAT WASHER- BLACK ZINC	M8 FLAT WASHER, 16.5x8.4x1.2, ISO4042 ZnNi BLACK PASSIVATED FINISH
7	M8 FLANGE NUT	Flange Nut, M8x1.25 G8.8 ZP
43	M8 NUT	Hex Nut, M8x1.25 G8.8 ZP

SB-COM-MED-LBKIT Small Parts – Contained in Small Parts Kit Bag

Qty	Part Number	Description
3	M6x16 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M6X16X1 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH
3	M6 FLAT WASHER BLACK ZINC	M6 Flat Washer, 12x6.1x1, ISO4042 ZnNi BLACK PASSIVATED FINISH
3	M6 FLANGE NUT	Flange Nut, M6x1 G8.8 ZP

SB-COM-CHMSL-KIT Small Parts – Contained in Small Parts Kit Bag

Qty	Part Number	Description
2	M3X12 PAN	SCREW, PAN HEAD PHILLIPS, M3X12X0.5 GR4.6 ZP
2	M3 FLAT WASHER	Flat Washer M3, 7mmODx0.5mm T
2	M3 NUT	Hex Nut, M3x0.5 G48.8 ZP
2	M8 X 16 BHCS BZP	SCREW, BUTTON HEAD CAP, M8X16X1.25 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH
2	M8 FLAT WASHER- BLACK ZINC	M8 FLAT WASHER, 16.5x8.4x1.2, ISO4042 ZnNi BLACK PASSIVATED FINISH
2	M8 FLANGE NUT	Flange Nut, M8x1.25 G8.8 ZP

SB-COM-RSAN-KIT Small Parts – Contained in Small Parts Kit Bag

Qty	Part Number	Description
8	M8 X 20 HEX	Bolt Hex, M8X20x1.25, GR8.8 ZP
8	M8 HD FLAT WASHER	M8 FLAT WASHER – High Tensile 19x8x1.9mm
8	M8 FLANGE NUT	Flange Nut, M8x1.25 G8.8 ZP

SB-COM-TC-KIT Small Parts – Contained in Small Parts Kit Bag

Qty	Part Number	Description
8	M8 X 20 HEX	Bolt Hex, M8X20x1.25, GR8.8 ZP
8	M8 X 40 HEX	Bolt Hex, M8X40X1.25, GR8.8 ZP
8	M8 X 50 HEX	Bolt Hex, M8X50X1.25, GR8.8 ZP
8	M8 X 80 HEX	Bolt Hex, M8X80X1.25, GR8.8 ZP
16	M8 HD FLAT WASHER	M8 FLAT WASHER - High Tensile 19x8x1.9mm
8	M8 FLANGE NUT	Flange Nut, M8x1.25 G8.8 ZP

TOOLS REQUIRED

The following tools will be required to install the product.

Hand Tools	Power Tools	Workshop Equipment
Metric Socket Set 5.5-13mm	Electric/Air Drill	Measuring Tape
Metric Spanner Set 5.5-13mm		Paint Pen
27mm Socket/Spanner		Ruler
Adjustable Wrench		
Hex (Allen) Key Set 3-5mm		
Phillips Head Screwdriver Set		
Side Cutters		
Centre Punch		
Drill Bits		
Deburring Tool		

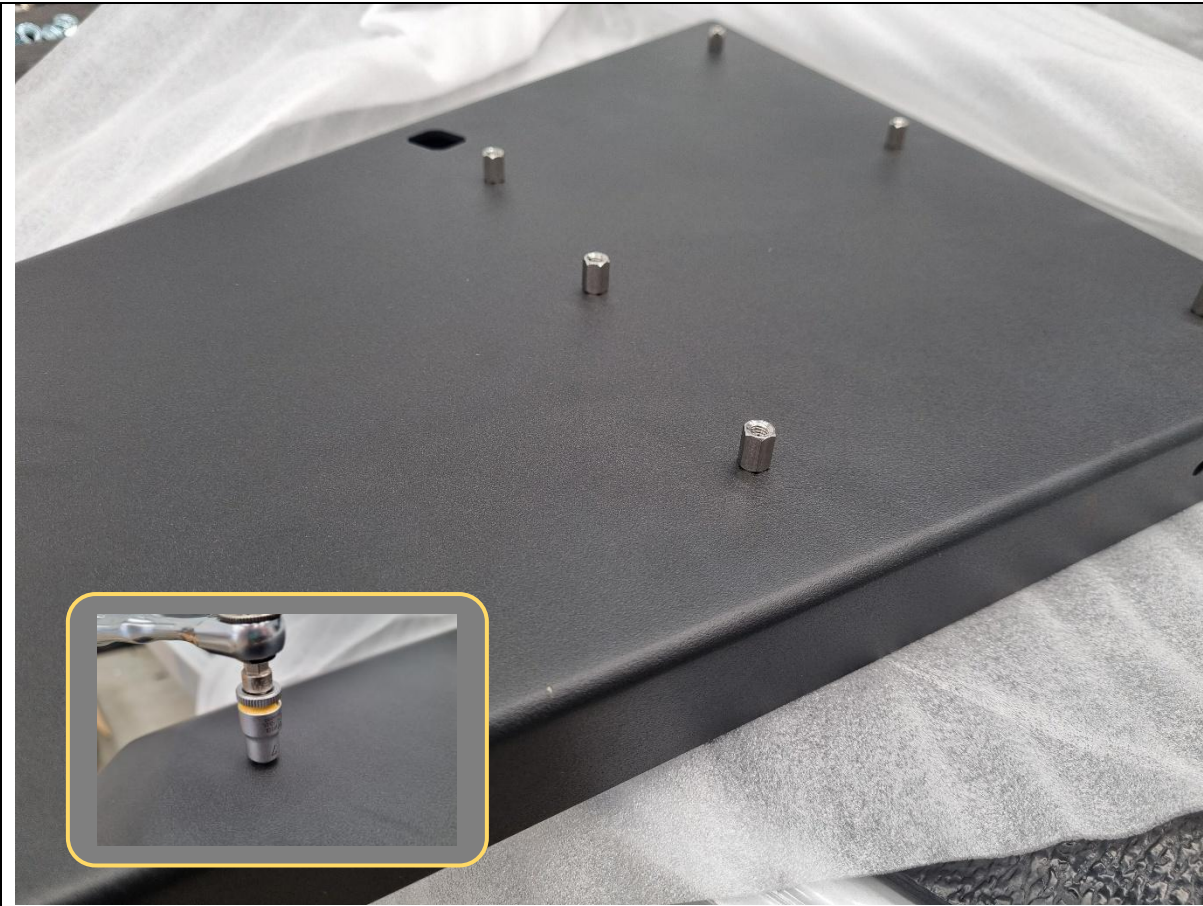
WORKSHOP SAFETY

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.



IMPORTANT PLEASE READ FIRST This product is designed to be a universal fit. As such, it is up to the installer to ensure the vehicle tub is suitable for fitment. This may include checking if additional tub bracing structures are required. Offroad Animal will not be held responsible for damages to vehicle tubs and accessories that fail to be sufficiently strong enough for this product. This product can be attached to the vehicle in 3x different ways: ▪ Drilling through top lip of the tub and bolting directly to the tub (parts supplied as standard). ▪ Using clamp brackets (SB-COM-TC-KIT sold as optional add-on) to clamp to the sides of the tub. Does not suit J-deck tubs. ▪ Bolting to T-slot tracks in roller shutter systems. Parts supplied as standard for 'flat' top tracks, for angled tracks (eg. Mountain Top / Real Truck roller shutters) there is a SB-COM-RSAN-KIT optional add-on sold separately. T-slot nuts not supplied, refer to roller shutter manufacturer for suitable fasteners. 1. Remove your existing original useless sports bar if equipped. Refer to original manufacturer's instructions.	TOOLS REQUIRED
	FASTENERS



2. Begin by fitting 8x M5x10 hex spacer standoffs to the outside of each door panel with M5 flange nuts on the inside. Tighten with 7mm socket/spanner.	TOOLS REQUIRED 7mm socket/spanner
	FASTENERS 16x M5x10 hex spacer standoff 16x M5 flange nut



3. Fit the corresponding door accessory panel to each door. Secure each panel to the spacer standoffs with 8x M5x10 button head bolts and washers.	TOOLS REQUIRED 3mm hex/Allen key
	FASTENERS 16x M5x10 button head 16x M5 flat washer



4. Fit the rubber sealing ring to the door compression latch, then fit 1x latch to the square keyway in each door.
5. Tighten with the large serrated lock washer and large jam nut on the inside.

TOOLS REQUIRED

27mm socket/spanner
or
Adjustable wrench

FASTENERS

Supplied with latch



6. Fit the smaller jam nut, lock washer, cam lever, another lock washer and finally a jam nut.

Leave finger tight, as this will need to be adjusted to latch and seal the door tightly to the storage box once assembled.

TOOLS REQUIRED**FASTENERS**

Supplied with latch



7. Fit 2x door hinges to the holes in the side of each door. 8. Secure each one using the 2x M5x15 button head bolts, flat washers and Nyloc nuts.	TOOLS REQUIRED 3mm hex/Allen key 8mm socket/spanner
	FASTENERS 8x M5x15 button head 8x M5 flat washer 8x M5 Nyloc nut



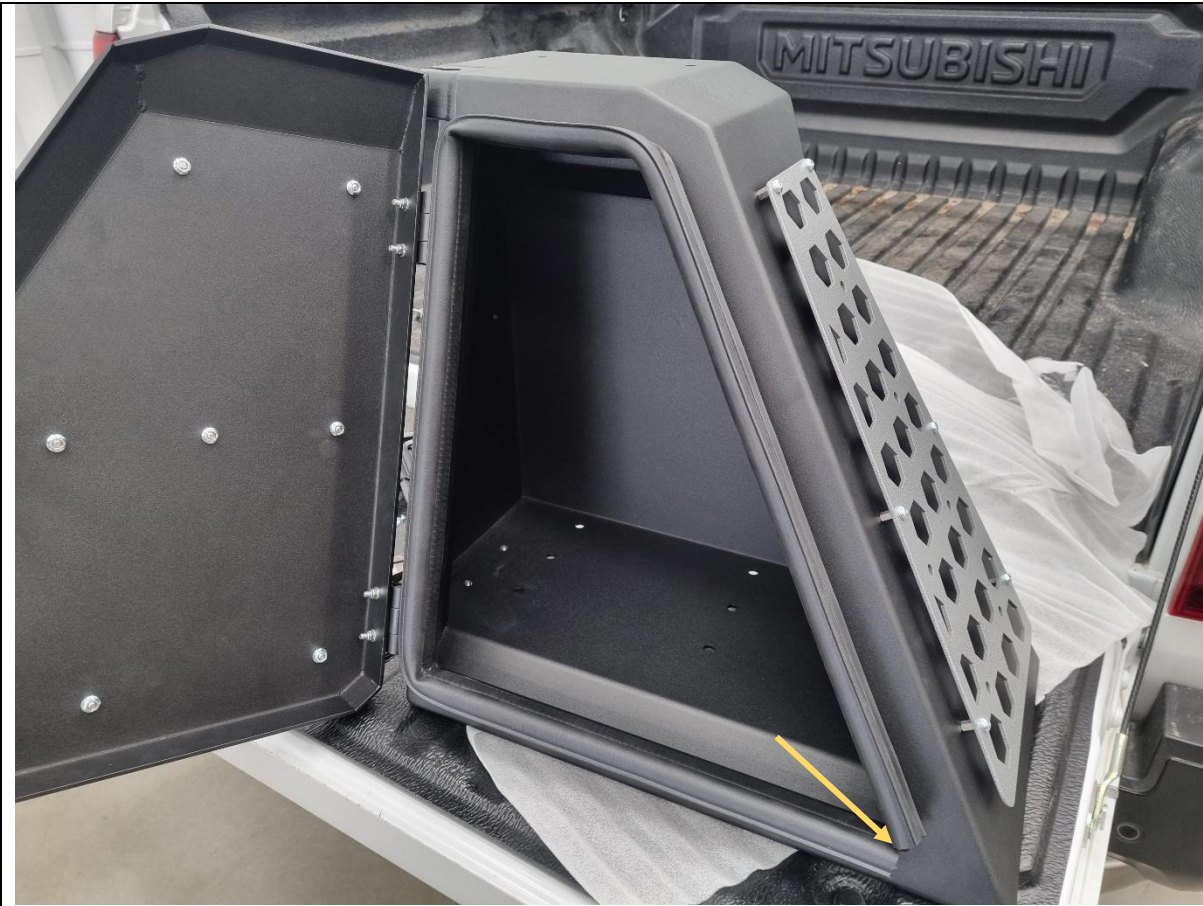
9. Fit 6x M5x10 hex spacer standoffs to the back of each storage box with M5 flange nuts on the inside. Tighten with 7mm socket/spanner. 10. Fit the corresponding rear accessory panel to each storage box. Secure each panel to the spacer standoffs with 6x M5x10 button head bolts and washers.	TOOLS REQUIRED 7mm socket/spanner 3mm hex/Allen key
	FASTENERS 12x M5x10 hex spacer standoff 12x M5 flange nut 12x M5x10 button head 15x M5 flat washer



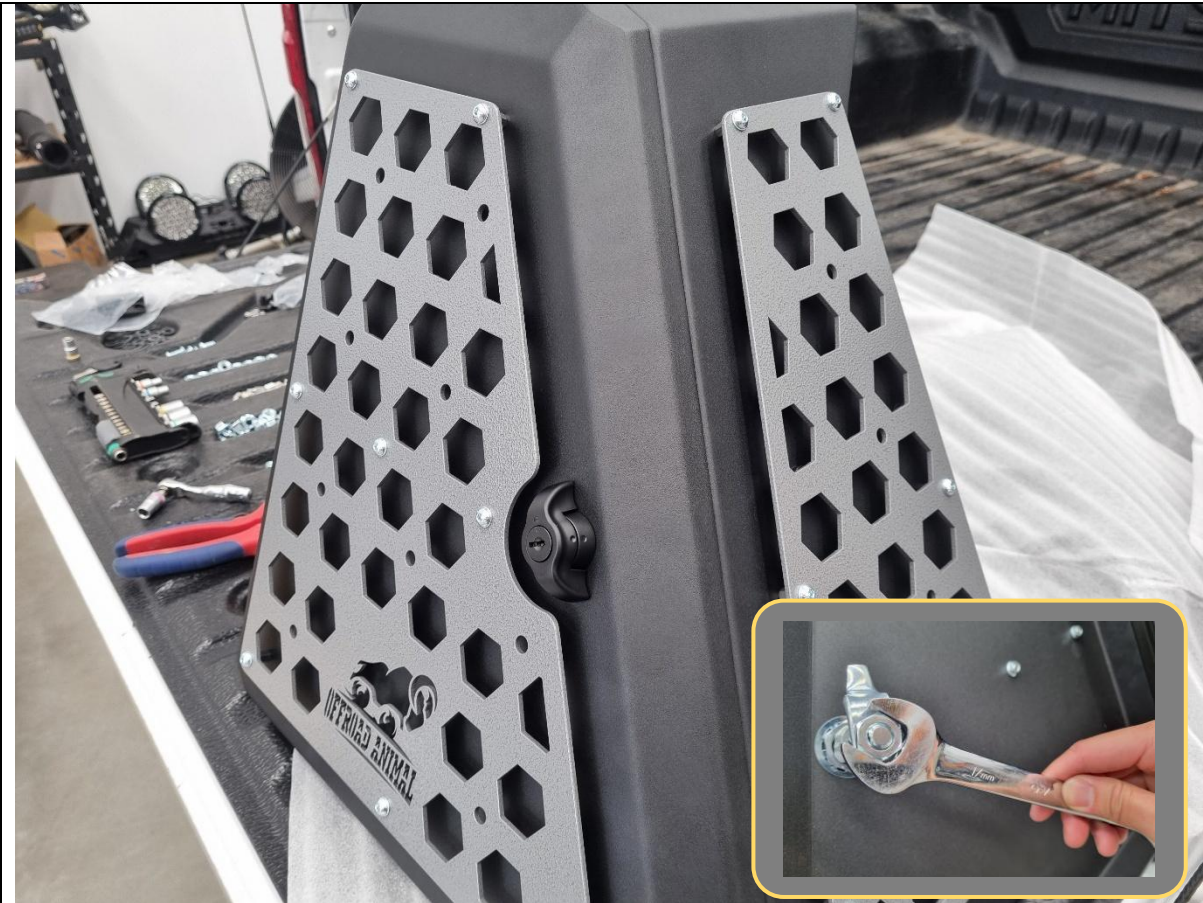
11. Fit each door to each storage box. Secure via the hinges with M5x15 button head bolts, flat washers and Nyloc nuts.	TOOLS REQUIRED 3mm hex/Allen key 8mm socket/spanner
	FASTENERS 8x M5x15 button head 8x M5 flat washer 8x M5 Nyloc nut



12. Once hinge bolts are tightened. Fit the plastic covers over the outside of the hinges.	TOOLS REQUIRED
	FASTENERS Covers supplied with hingers



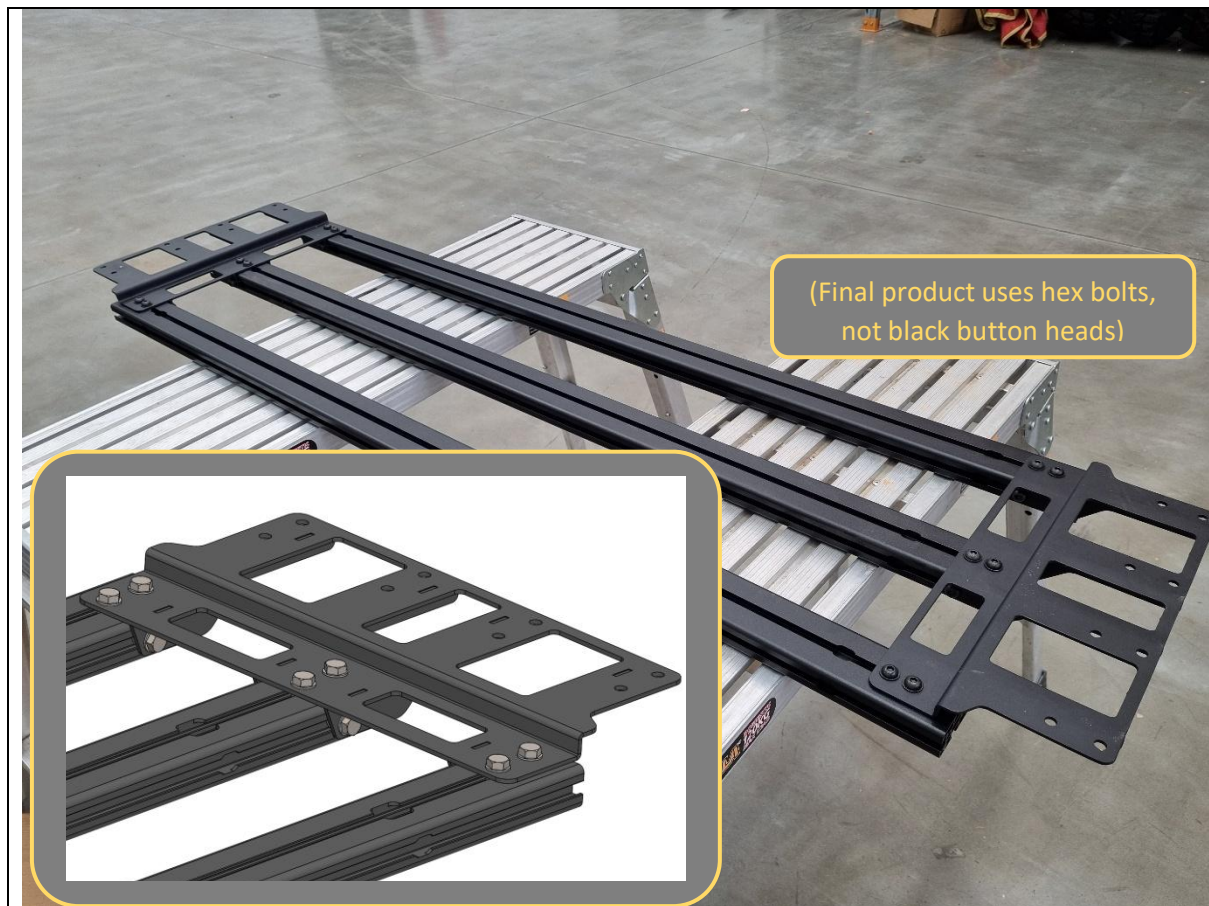
13. Fit the supplied bulb pinch weld rubber around the entire lip of the storage box as shown. Have the end in the bottom corner with the arrow. Trim to fit with side cutters. This serves as the door seal for prevention of water and dust ingress.	TOOLS REQUIRED Side cutters
	FASTENERS



14. Test fit closing the door with the door latch. 15. Adjust the position of the cam lever (up/down along the shaft, or flipping the angled cam lever to face the other way) until the door can close and latch on firmly. Give it a shake and ensure the door doesn't rattle around when latched. 16. Once happy with door latch mechanism, tighten the cam lever with a 17mm socket/spanner.	TOOLS REQUIRED 17mm socket/spanner
	FASTENERS



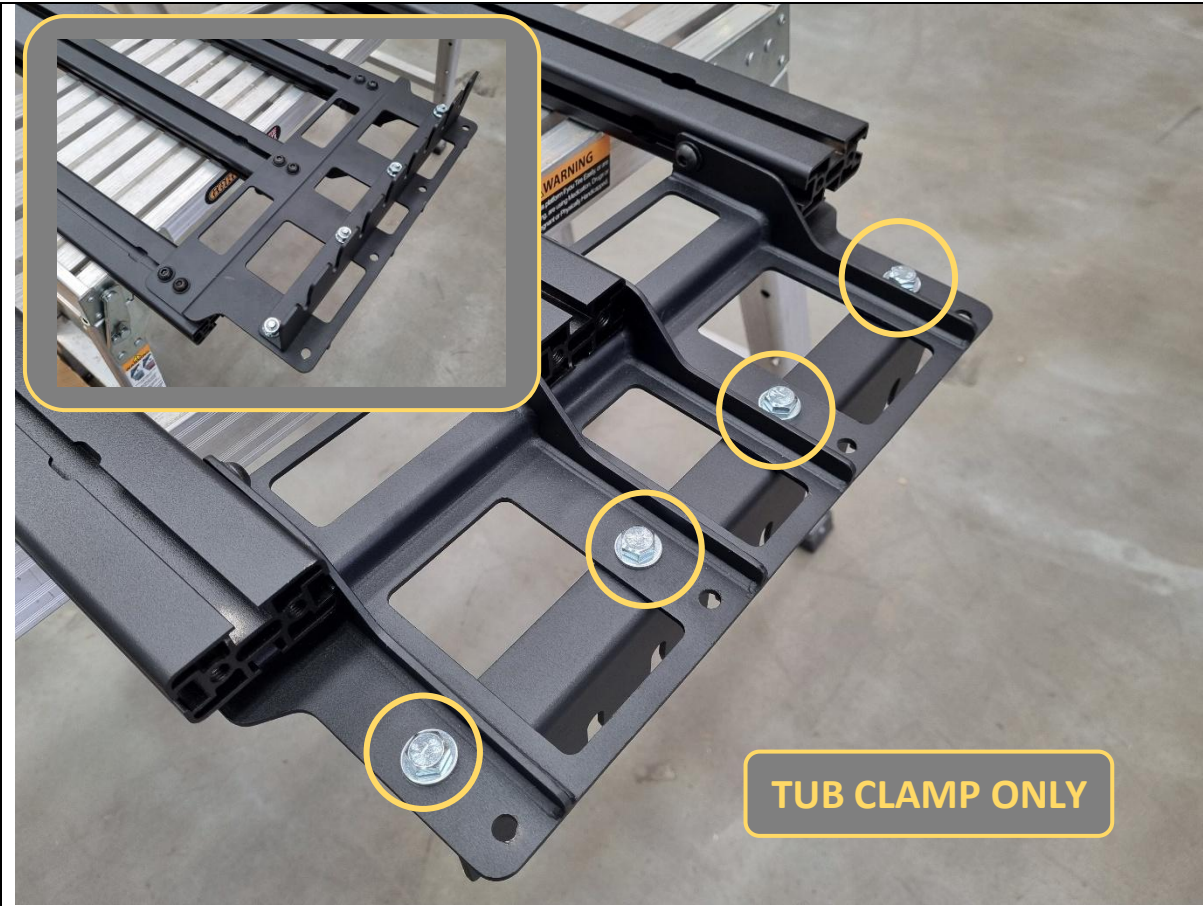
Time to assemble the mounting base.	TOOLS REQUIRED
17. Begin by assembling the base extrusion. Place the 3x aluminium extrusion cross bars, evenly spaced, across a flat area. See image above.	
18. Slide 2x M8 nuts into the top T-slot at each end of each extrusion.	FASTENERS 20x M8 nut
19. Also slide M8 nuts into the side T-slots at each end of each extrusion. For the outer extrusions, slide 1x nut onto the inner side T-slot. For the middle extrusion, slide 1x nut into both side T-slots. Refer to inset photo.	



20. Assemble the SB-COM-BOX-ASM2 mount brackets to the ends of the extrusions. Loosely secure to all the inserted nuts with M8x12 hex bolts and flat washers. Only finger tight for now.

TOOLS REQUIRED**FASTENERS**

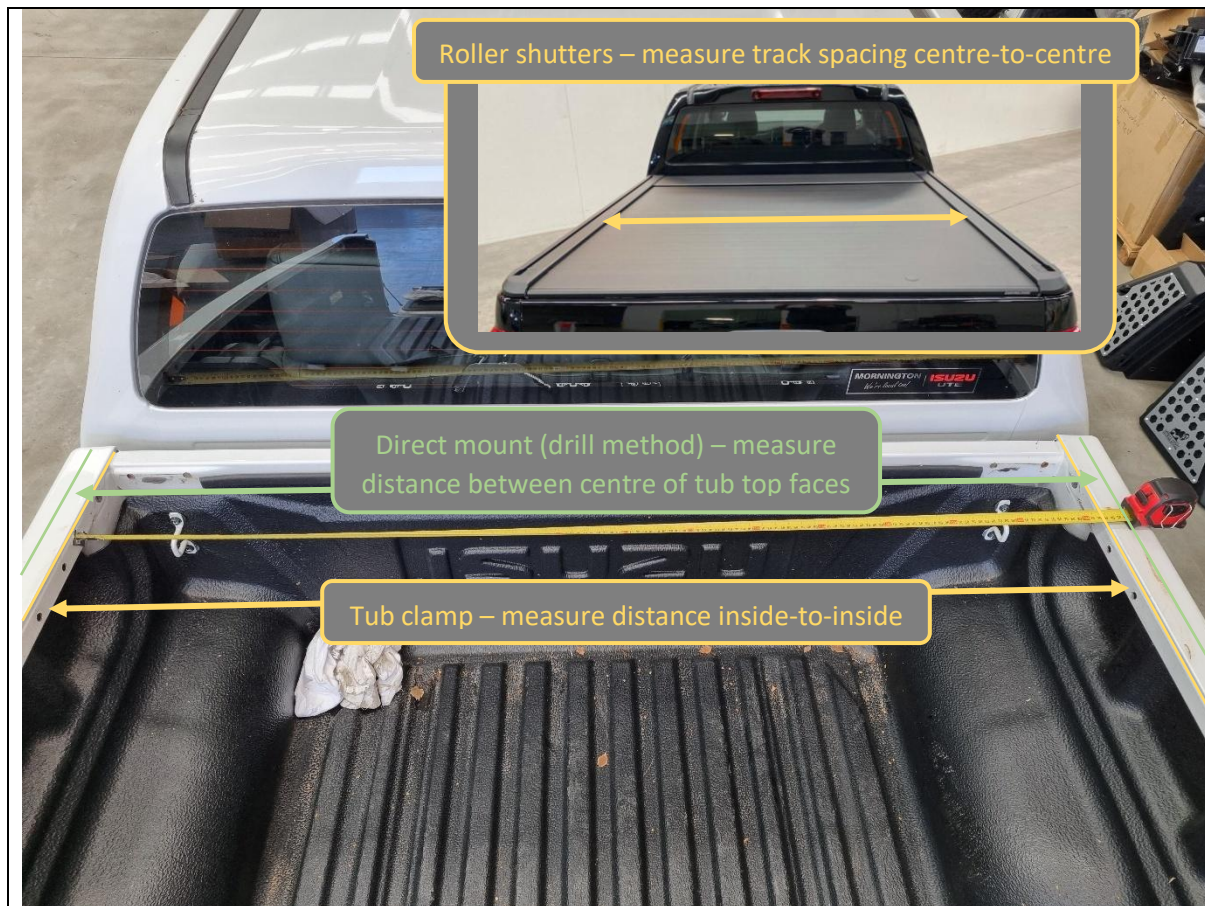
20x M8x12 hex bolt
20x M8 flat washer



21. If attaching sports bar to the tub using the optional tub clamp mount kit, bolt the B-1512 tongue bracket to the mount bracket using 4x M8x20 hex bolts, flat washers and flange nuts. Do this on both sides.	TOOLS REQUIRED 13mm socket/spanner
	FASTENERS 8x M8x20 hex bolt 8x M8 flat washer 8x M8 flange nut Supplied with tub clamp kit



22. If attaching sports bar to angled roller shutter tracks (eg. Mountain Top / Real Truck roller shutters), bolt the B-1307 angled bracket to the mount bracket using 4x M8x20 hex bolts, flat washers and flange nuts. Do this on both sides.	TOOLS REQUIRED 13mm socket/spanner
	FASTENERS 8x M8x20 hex bolt 8x M8 flat washer 8x M8 flange nut Supplied with angled roller shutter kit



23. Measure the distance of the tub so the mount bracket spacing can be adjusted. Write the distance below for reference if required:

Mount spacing = _____ mm

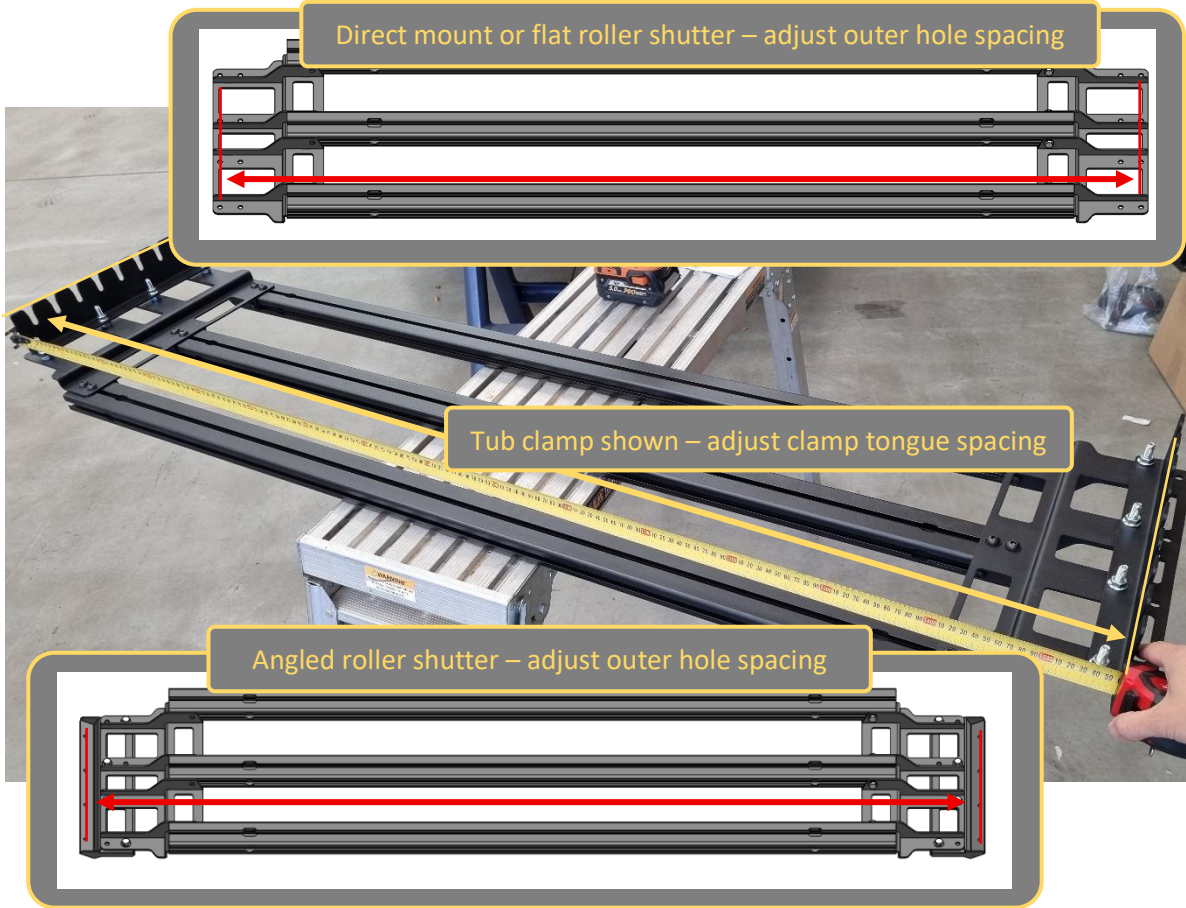
What you measure is dependent on how you are attaching the sports bar to the tub.

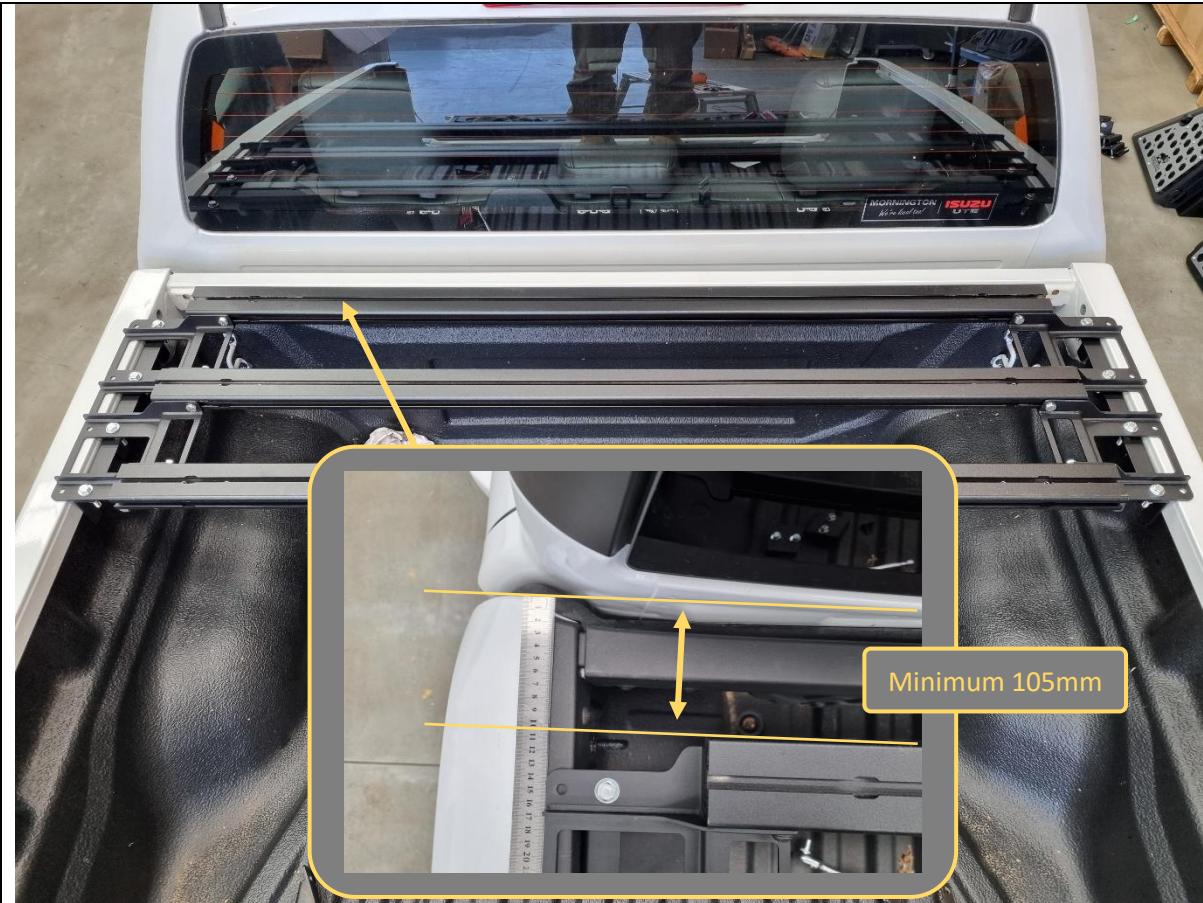
- For directly bolting/drilling to the tub, measure the distance between the centre of top face of the tub either side (or whatever position it is appropriate to fasten to with a bolt and nut).
- For clamping to the sides of the tub, measure the distance between the inside faces of the tub.
- For bolting to roller shutter T-slot tracks, measure the distance between the tracks, centre-to-centre.

TOOLS REQUIRED

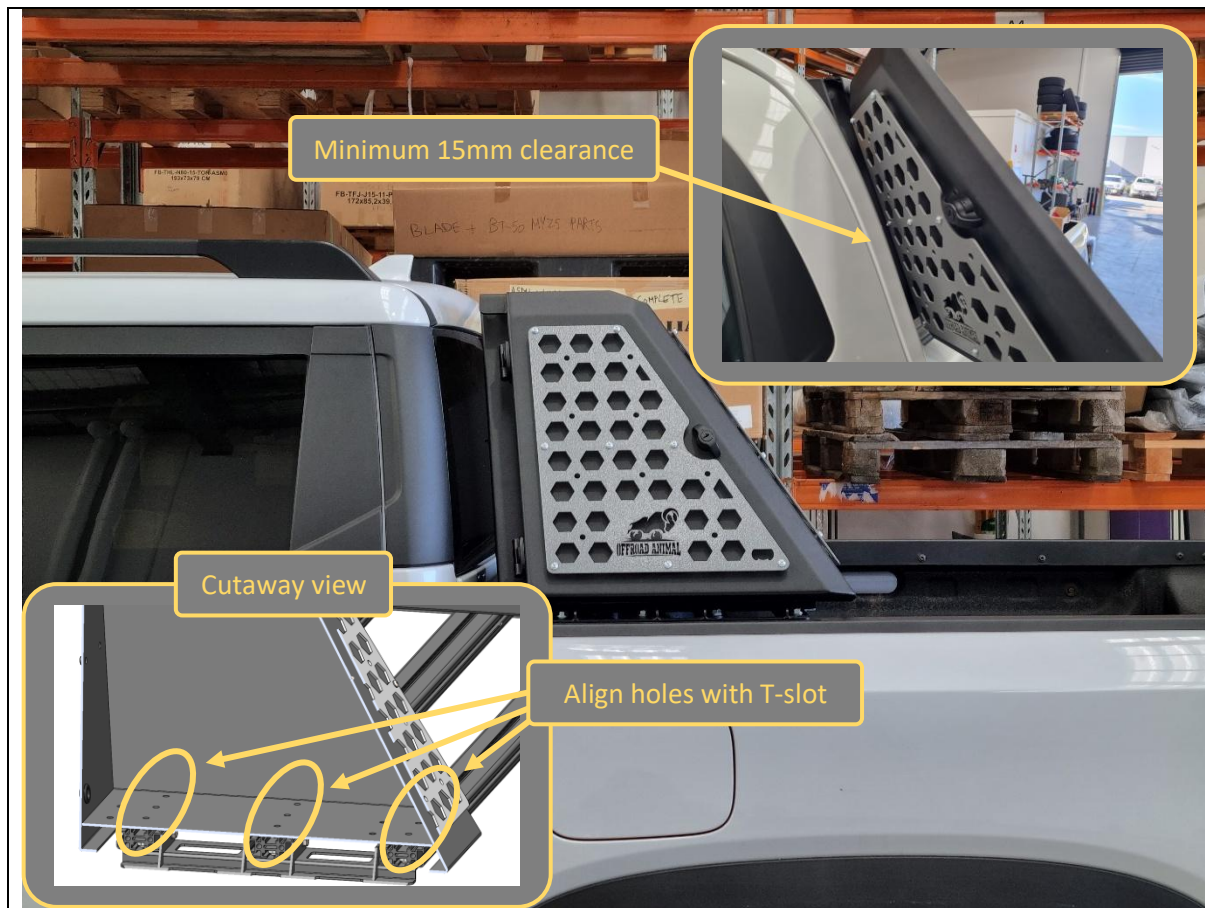
Tape measure

FASTENERS

 Direct mount or flat roller shutter – adjust outer hole spacing Tub clamp shown – adjust clamp tongue spacing Angled roller shutter – adjust outer hole spacing	
24. Adjust the spacing between the mount brackets to match what was measured on the tub. Make sure the brackets are symmetric on the extrusion (ie. same overhang on each side). 25. Snug several of the bolts up with a 13mm spanner. The remainder can be fully tightened once on the car.	TOOLS REQUIRED Tape measure 13mm spanner
	FASTENERS



26. Place the base extrusion on top of the tub. 27. Align the forward most face of the front extrusion cross member to be at <u>minimum 105mm</u> behind the back of the cab. Ensure it is sitting straight and symmetric left/right.	TOOLS REQUIRED Tape measure or Ruler
	FASTENERS

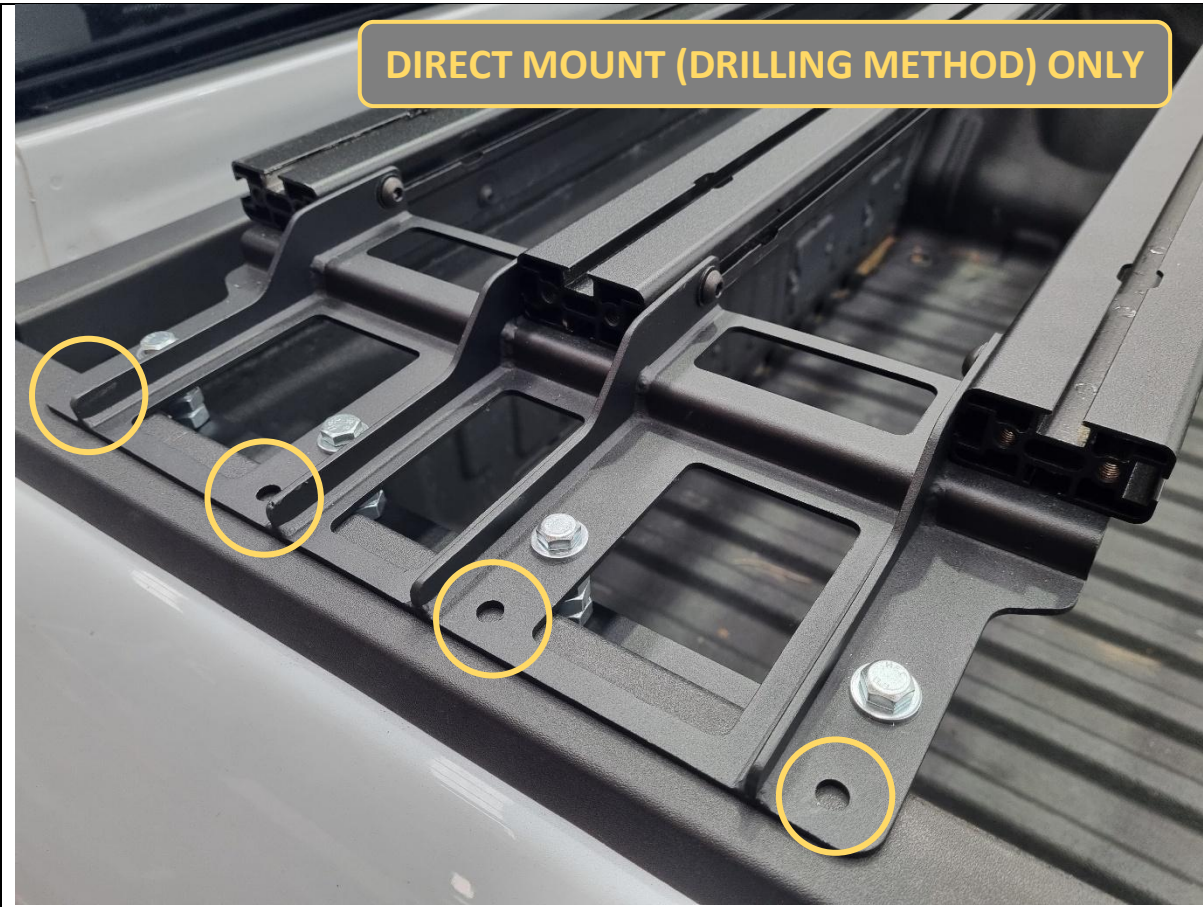


28. Do a dry test fit of the storage boxes. Place the storage boxes on top of the extrusion and align the 9x holes (3x3 pattern) on the floor of the box with the T-slots in the 3x cross bar extrusions.
29. Have the door fully opened and then check the clearance between the door and cab. Do this for both sides.
30. If the gap is 10mm or less, you will need to adjust the base extrusion rearwards, further away from cab, until you achieve sufficient clearance.
31. Remove the storage boxes and set aside while the base extrusion is secured to the tub.

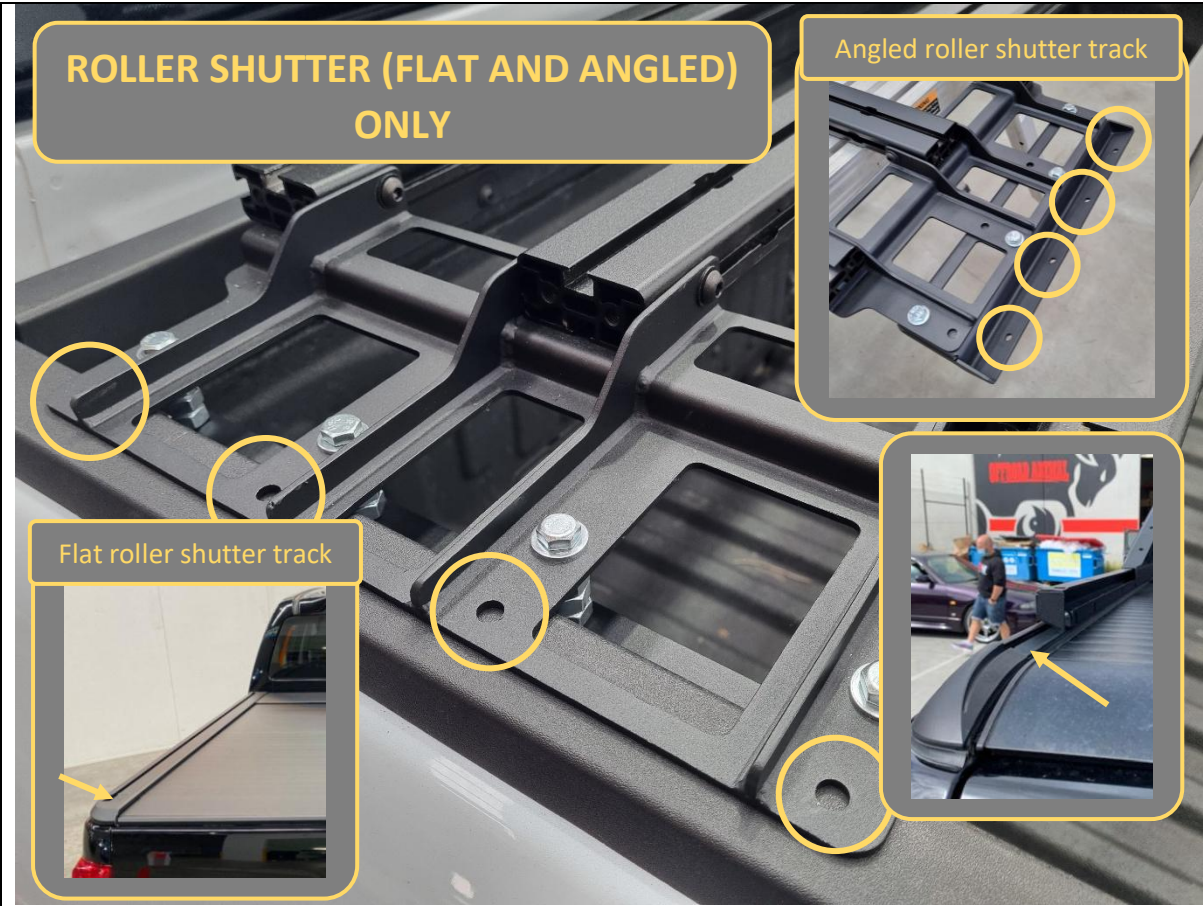
TOOLS REQUIRED

Tape measure
or
Ruler

FASTENERS



32. If directly mounting to the tub, use a centre punch and mark out 4x locations on each side of the tub corresponding to the holes in the mounting bracket. 33. Temporarily remove the base extrusion, then drill holes in the tub. Drill holes to suit M8 bolts. Alternatively, you can drill holes to suit M8 rivnuts (not supplied). 34. Deburr and paint the holes to prevent rust. 35. Place the base extrusion back in position and secure to the tub with M8 fasteners. There are M8x12 black button head bolts, black washers and hex nuts supplied in the kit for this. Alternatively, you will need to source your own suitable size M8 bolts, nuts, rivnuts etc. This is up to the discretion of the installer as each vehicle will vary slightly in tub thickness and shape.	TOOLS REQUIRED Centre punch Electric drill Drill bit Deburring tool Paint pen
	FASTENERS 8x M8x12 black button head 8x M8 black washer 8x M8 hex nut Or source own suitable M8 fasteners



36. If bolting to roller shutter T-slot tracks, insert suitable nuts into the T-slot and align with the 4x holes on the mounting bracket (either normal or angled bracket). There are 8x normal M8 hex nuts supplied for this, but you will have to check on your particular roller shutter to see if it suits, or you will need to find out from your roller shutter manufacturer what T-slot nuts suit.	TOOLS REQUIRED
37. Bolt the base extrusion to the roller shutter. Again, there are 8x M8x12 black button head bolts and black washers supplied for this, but you may need to source your own hardware to fit o to your roller shutter brand.	FASTENERS 8x M8x12 black button head 8x M8 black washer 8x M8 hex nut Or source own suitable M8 fasteners

 TUB CLAMP ONLY	
38. If clamping the base extrusion to the tub, assemble the 4x tub clamps as shown. Use the supplied M8x40 hex bolts and washers in the optional kit and loosely connect the two halves. Leave bolts loose.	TOOLS REQUIRED
	FASTENERS 8x M8x40 hex bolt 8x M8 flat washer



39. Fit 2x tub clamps to each tongue bracket from below. Ensure the inner tub lip is sandwiched between the inner clamp and the tongue bracket.

There are multiple positions for you to use. Fit them so they are spaced as far out as possible for best load distribution. A minimum spacing of 2x slots (as shown in main photo) between the two clamps is required.

You may need to trim the tub liner or position the entire base extrusion further away from the cab to achieve the minimum spacing.

40. Make sure the tub clamps are pushed as high as possible to the top of the open slot in the tongue bracket. If this is not possible due to the tub structure, there are spacer tubes and longer bolts supplied to drop the tongue bracket further down from the main mount bracket. Select a suitable combo that suits you. See inset photo for example.
41. Tighten all M8 clamp bolts once happy with position.

TOOLS REQUIRED

13mm spanner

FASTENERS



42. Base extrusion should now be securely fastened to the tub.

Tighten all remaining M8 bolts holding extrusion with a 13mm spanner.

Double check and ensure everything is sitting square and symmetric to the tub/cab.

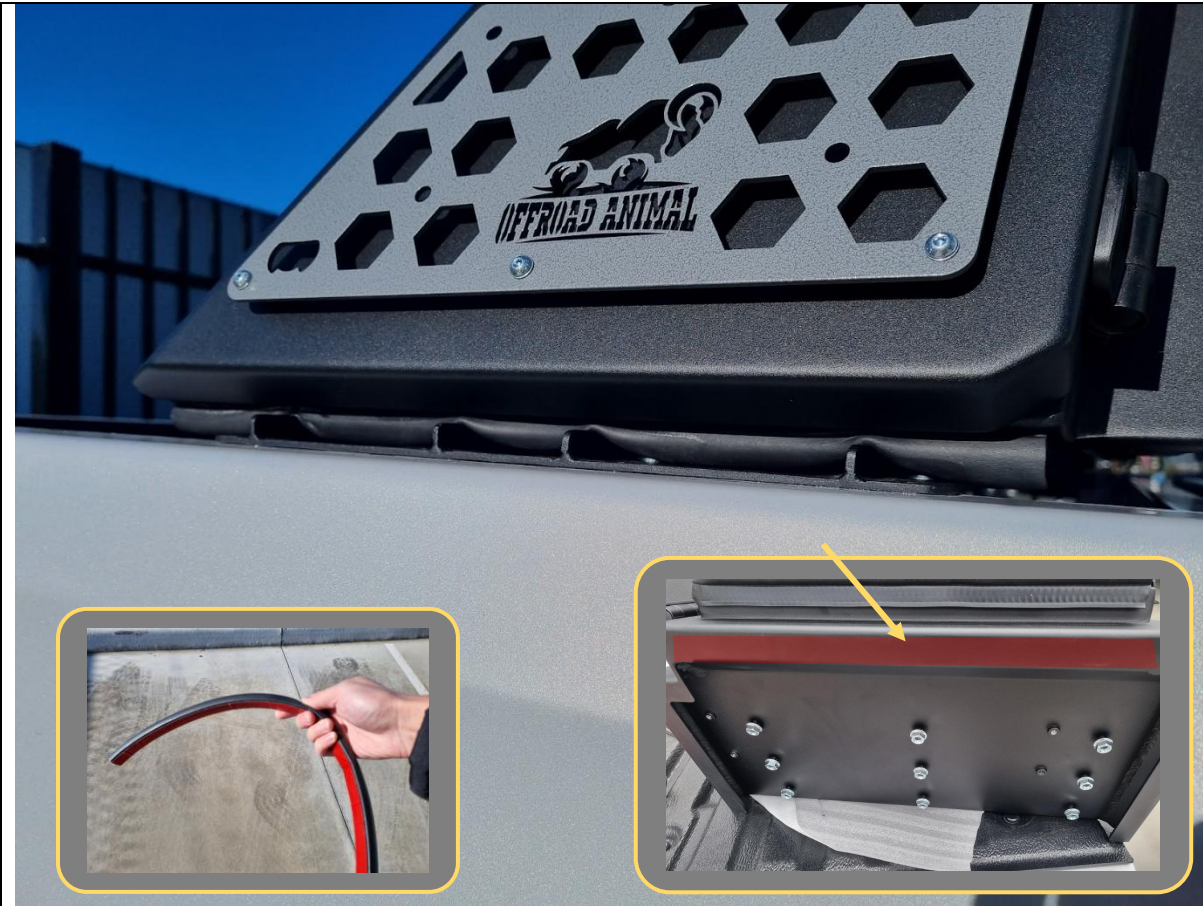
TOOLS REQUIRED

13mm spanner

FASTENERS



43. Fit 9x M8x12 black button head bolts and black washers to the inside of the storage box floor, and loosely fit M8 hex nuts to from the underside. Thread the nut on until the bolt thread is flush with the bottom of the nut. (ie. no bolt thread exposed).	TOOLS REQUIRED
	FASTENERS 18x M8x12 black button head 18x M8 black washer 18x M8 nut



44. There is the option to apply a strip of D-Section rubber seal to the bottom edge of the storage box for visual appearance (see main photo above on car). Remove the backing film and apply the rubber seal to the face highlighted in bottom right inset photo. (Apply to the box, not the door). Trim to length with side cutters.	TOOLS REQUIRED Side cutters
	FASTENERS



45. Slide the storage boxes onto the cross bar extrusion from the sides. You will need to give it a good wiggle to get all the nuts hanging off the bottom of the storage box to slide into the T-slots.	TOOLS REQUIRED
	FASTENERS



46. The sports bar has provisions for an Offroad Animal 22" or 32" single row light bar to be mounted to the upper cross member. If choosing to fit one, do this one by bolting it to the B-1144 light bar mount bracket, with mounting feet in the orientation shown. Note: Fitment only confirmed for Offroad Animal brand light bar. Other brand light bars may have different mount brackets which do not allow it to be rotated at this angle. Note: It is the responsibility of the customer and/or installer to check and ensure legality of light mounting according to local laws and regulations.	TOOLS REQUIRED Refer to light accessory instructions
47. The bottom of the light bar mount also has provisions for up to 5x cube or work lights. You can bolt these on now if you wish. Note: It is the responsibility of the customer and/or installer to check and ensure legality of light mounting according to local laws and regulations.	FASTENERS Supplied with light accessory



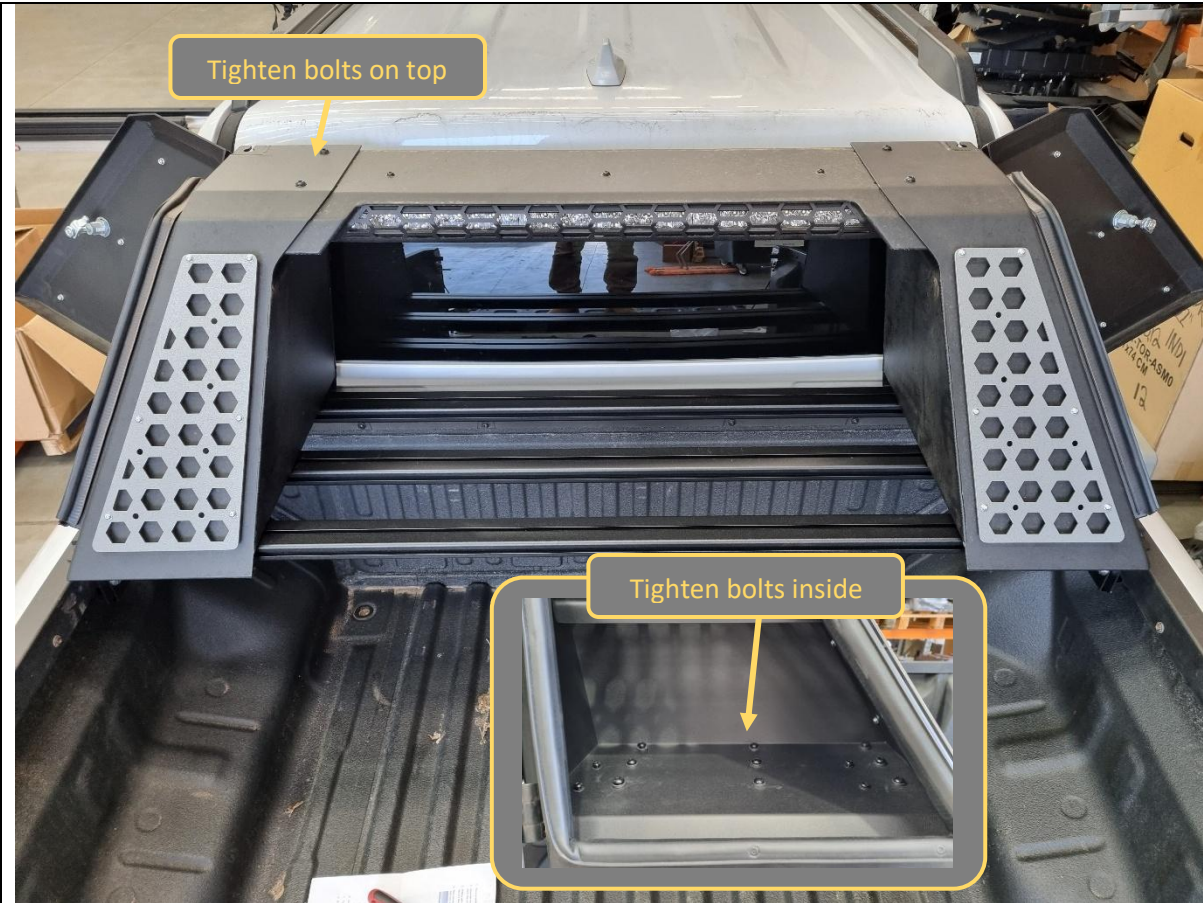
48. If your vehicle has a centre high-mounted stop lamp (CHMSL), the sports bar may block its visibility. It is a legal requirement for it to be visible. 49. Offroad Animal supplies a CHMSL mount (sold separately). If needing to fit one, fit the supplied lamp to the CHMSL bracket with 2x M3x12 pan head screws, flat washers and nuts. 50. Then fit the CHMSL and bracket to the middle of the underside of the light bar mount, and secure with 2x M8x16 black button head bolts, black washers and flange nuts.	TOOLS REQUIRED Phillips head screwdriver 5.5mm socket/spanner
	FASTENERS 2x M3x12 pan head screw 2x M3 flat washer 2x M3 nut 2x M8x16 black button head 2x M8 black washer 2x M6 flange nut Supplied with optional CHSML kit



51. Fit the light bar mount to the inside of the upper cross member and secure with 3x M6x16 black button head bolts, black washers and flange nuts.	TOOLS REQUIRED 4mm hex/Allen key
	FASTENERS 3x M6x16 black button head 3x M6 black washer 3x M6 flange nut



52. Assemble the upper cross member in between the 2x storage boxes on the car. You may need another person to help lift it, or use the cardboard box the sports bar came in to support it. 53. Loosely secure with 4x M8x20 black button head bolts, black washers and flange nuts. Keep finger tight for now.	TOOLS REQUIRED
	FASTENERS 4x M8x20 black button head 4x M8 black washer 4x M8 flange nut



54. Adjust the position of the storage boxes and upper cross member so that everything is sitting symmetrically and centred on the vehicle. When viewed from the rear, have the storage box sitting as flush as possible with the profile of the cab. You don't want it poking out too much or sitting too far inboard because it won't look good.	TOOLS REQUIRED 5mm hex/Allen key
55. Once happy with alignment, tighten all M8 black button head bolts holding the cross member on top and inside the storage box to the extrusion base.	FASTENERS



There are several accessories that can be fitted to the inside of the storage boxes. 56. A compressor plate is sold separately that can be used to mount an air compressor. It attaches to the floor of the storage box with 4x M6x16 black button head bolts and black washers. The plate is compatible with ARB/TJM branded single/dual air compressors. 57. For the side without the compressor plate, or if you are not fitting one at all, <u>still fit the M6x16 black button head bolts and black washers to the floor of the storage box.</u> This is for water and dust sealing.	TOOLS REQUIRED 4mm hex/Allen key
	FASTENERS 8x M6x16 black button head 8x M6 black washer



58. A pair of shelves are sold separately for storing smaller gear and equipment. They attach with to the storage box walls from the inside with 4x M6x16 black button head bolts and black washers.

59. Even if you are not fitting one at all, still fit the M6x16 black button head bolts and black washers to the walls of the storage box.

This is for water and dust sealing.

TOOLS REQUIRED

4mm hex/Allen key

FASTENERS

8x M6x16 black button head
8x M6 black washer



60. The top of the sports bar has provisions for mounting antennas or camp lighting. Note: It is the responsibility of the customer and/or installer to check and ensure legality of light mounting according to local laws and regulations.	TOOLS REQUIRED
	FASTENERS



61. The base extrusion can be used as a mini storage platform for accessories to be tied down to. <u>Max load 50kg.</u> Offroad Animal sells eye bolt kits for easily attaching tie down straps.	TOOLS REQUIRED
62. The accessory panels can also be used for mounting small accessories. <u>Max load 5kg.</u> Offroad Animal sells rubber clampit holders perfect for shovels and axes.	FASTENERS



63. Last thing to do is to route and complete any wiring for accessories. There are holes along the top of the upper cross member for cable ties. 64. Towards the bottom of each storage box is a hole for wire routing. Fit the supplied rubber grommet to ensure water and dust sealing.	TOOLS REQUIRED
	FASTENERS



Congratulations! You're done! Now the sports bar is actually useful and looks fully sick. No longer just a useless ornament on the back of your ute.