

Toyota Landcruiser 300 Series

MY2022+ Predator & Toro Front Bar Fitting Instruction

IMPORTANT! – READ BEFORE INSTALLATION

- When installed in accordance with these instructions, the front protection bar does not affect the operation of the vehicles SRS airbags.
- 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.



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	FB-TLC-300-22- PR-ASM1	Toyota LC300 Predator Bar Weldment	
		Or	
1	FB-TLC-300-22- PR-ASM1	Toyota LC300 Toro Bar Weldment	
1	FB-TLC-300-22- PR-ASM2L	Toyota LC300 Impact Assy	
1	FB-TLC-300-22- PR-ASM3L	Toyota LC300 Impact Assy	
1	FB-TPR-150-18- PR-ASM3L	Toyota LC300 Predator - Tow Assy	
1	FB-TPR-150-18- PR-ASM3R	Toyota LC300 Predator - Tow Assy	
1	B-0850L	Toyota LC300 Outer Chassis Brace	

1	B-0850R	Toyota LC300 Outer Chassis Brace	
1	B-0667L	Toyota LC300 Predator - Headlight Infill Panel	
1	B-0667R	Toyota LC300 Predator - Headlight Infill Panel	
1	B-0680L	Toyota LC300 Predator - Headlight Infill Panel Mount	
1	B-0680R	Toyota LC300 Predator - Headlight Infill Panel Mount	
1	U-0047L	Toyota LC300 Predator - Side Underpanel	
1	U-0047R	Toyota LC300 Predator - Side Underpanel	
1	U-0046	Toyota LC300 Predator - Centre Underpanel	
1	M-0026L	Toyota LC300 Predator - Fog Light / Intercooler Mesh Panel	
1	M-0026R	Toyota LC300 Predator - Fog Light / Intercooler Mesh Panel	
1	M-0025L	Toyota LC300 Predator - Side Mesh Panel	



FB-TLC-300-22-PR-ASM0 Fitting Instruction

2022+ Toyota Landcruiser 300 Predator Front Bar

1	M-0025R	Toyota LC300 Predator - Side Mesh Panel	
1	M-0024	Toyota LC300 Predator - Centre Fairlead Mesh Panel	
1	B-0679L	Toyota LC300 - Fog Light Bracket	
1	B-0679R	Toyota LC300 - Fog Light Bracket	
1	B-0666	Toyota LC300 Predator - Pan Brace	
1	B-0668	Toyota LC300 Predator - Number Plate Bracket	
1	FB-TLC-300-22- PR-ASM4L	LC300 Front Headlight Washer Plug Assy	
1	FB-TLC-300-22- PR-ASM4R	LC300 Front Headlight Washer Plug Assy	



Predator Small Parts – Contained in Small Parts Kit Bag

QTY.	PART NO.	DESCRIPTION	
45	M6 FLAT WASHER BLACK ZINC	M6 FW BLACK ZP	
38	M6 FLANGE NUT	Flange Nut, M6x1 G8.8 ZP	
45	M6x16 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M6X16X1 GR12.9 BLACK ZP	
6	M8 X 30 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M8X30X1.25 BLACK ZP	
10	M8 FLAT WASHER- BLACK ZINC	M8 FW- BLACK ZINC	
4	M8 X 16 BHCS BZP	SCREW, BUTTON HEAD CAP, M8X16X1.25 GR12.9 BLACK ZP	
4	M8 X 20 HEX	Bolt Hex, M8X20x1.25, GR8.8 ZP	
8	M8 FLAT WASHER	M8 FW	
14	M12X30	Bolt Hex, M12X30x1.75, GR8.8 ZP	
14	M12 FLANGE NUT	Flange Nut, M12x1.75 G8.8 ZP	
2	M12 Nyloc nut	M12 NYLOC NUT	
12	M12 FW LHD	M12 FW Large Heavy Duty	
4	M10 x 25	Bolt Hex, M10X25x[1.5], GR8.8 ZP	
12	M10 FW LHD	WASHER, FLAT M10X28.5X2.5	
8	M10 FLANGE NUT	Flange Nut, M10x1.5 G8.8 ZP	
2	M8 NYW	Washer, M8, Nylon	
8	M12 FLAT WASHER	M12 FW	
4	M10 x 30	Bolt Hex, M10X30x[1.5], GR8.8 ZP	
4	M10 Flat Washer	M10 FW	
2	NP-COM-M12-300-ASM0	M12 NUT PLATE 300MM STEM	
10	M6CN3MM	CAGE NUT M6x2.6-3.5	
3	M6x12 BHCS	SCREW, BUTTON HEAD CAP, M6X12X1 GR12.9 ZP	
3	M6 FLAT WASHER	M6 FW	
2	M8 FLANGE NUT	Flange Nut, M8x1.25 G8.8 ZP	
2	M8 X 25 HEX	Bolt Hex, M8X25x1.25, GR8.8 ZP	
2	M8 NYLOC	NYLOC SELF LOCKING NUT, ST STL A2 ISO	
2	M12x30x1.25	Bolt Hex, M12X30x1.25, GR8.8 ZP	
2	M12x110	Bolt Hex, M12X110x1.75, GR8.8 ZP	
2	T-0057	Toyota LC300 Tow Point Crush Tube	

Toro Small Parts – In addition to Above

QTY.	PART NO.	DESCRIPTION
1	B-0678L	Toyota LC300 Toro- Antenna Bracket
1	B-0678R	Toyota LC300 Toro- Antenna Bracket
6	M8 FLAT WASHER- BLACK ZINC	Flange Nut, M6x1 G8.8 ZP
6	M8x20 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M6X16X1 GR12.9 BLACK ZP



The following tools will be required to install the product.

Hand Tools	Power Tools	Workshop Supplies
Metric Socket Set 8-	Electric Drill	Double Sided Adhesive
19mm	6mm Drill Bit	Tape (3M VHB or
Socket Extension Bar		Equivalent)
Metric Spanner Set 10-	Electric/Air Impact	Panel Stand or Soft
19mm	Driver (Optional)	Blanket
Hex (Allen) Key Set 4-		Cable Ties
6mm		Masking Tape
Trim Puller Tool		Black Automotive
Flat Blade Screwdriver		paint
set		Scotch Brite or Fine
Phillips Head		Sandpaper
Screwdriver set		Automotive
Utility Knife		Sealant/Adhesive
Side Cutters		(Sikaflex 227 or Equiv)
Pliers		Bucket
		Hose Clamp



WORKSHOP SAFTEY

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.

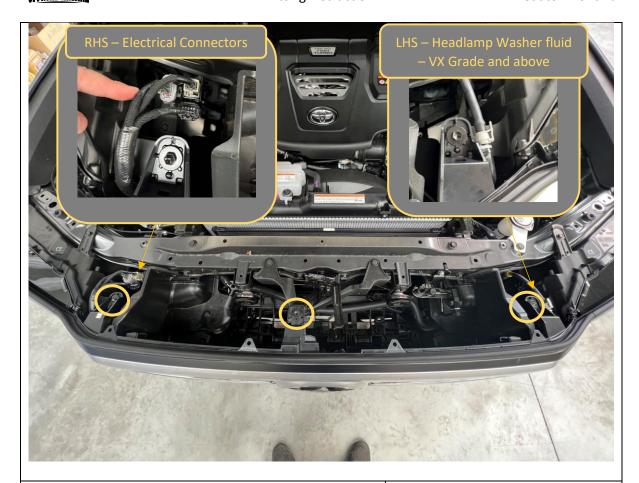


- 1. Open the Bonnet,
- 2. Remove clips securing the top radiator cowling. Press down on the center button of clip to unlock, then remove clip with trim tool.
- 3. Retain all clips for reassembly

Trim Tool

FASTENERS

Retain Factory

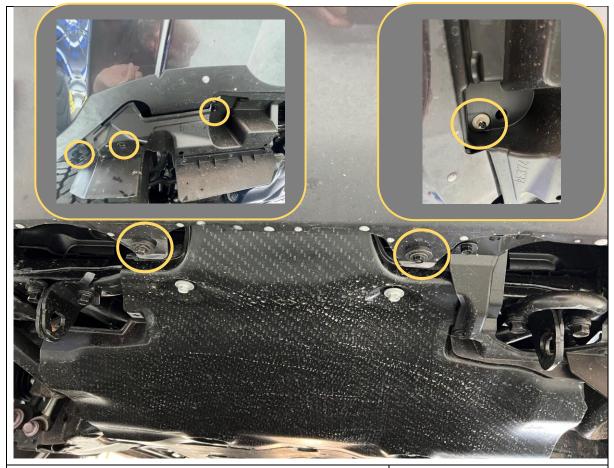


- 4. Remove the 3x Bolts securing top of grille to body using 10mm socket.
- Disconnect the Electrical harness connectors (LHS) and Headlamp washer fluid connector (RHS, VX models and above)

10mm socket.

FASTENERS

Retain Factory



- 6. Remove the 10mm head screws securing the bumper to the lower crossmember.
- 7. Remove the plastic nuts that also secure the bumper.

10mm socket Trim Tool

FASTENERS

Factory Bolts (Discard)



- 8. Remove clips securing wheel arch flare and inner guard liner by prying up center part of clip using a trim tool.
- 9. There are several clips securing each flare.

Trim Tool



10. -In addition to the clips there are also button head screws. Remove these using 4mm Hex key.

11. Remove all fasteners securing the flare and inner arch liner. Complete on both sides of the vehicles

TOOLS REQUIRED

4mm Hex Key



- 12. Before removal of the flare, place masking tape in line with the bumper to guard panel line, this will assist in trimming flare later.
- 13. Progressively release the clips securing the wheel arch flare to the bumper and front guard. Start from the bottom corner of the flare towards the front of the vehicle.
- 14. Use trim tool as required to assist releasing the clips

Trim Tool



- 15. Remove the clip securing the Front bumper skin to the body, using trim tool.
- 16. Complete on both sides of the vehicle.

Trim Tool



- 17. Starting from the wheel arch, carefully pull the bumper away from the body of the vehicle to release the clips.
- 18. Remove the bumper and set aside on a soft blanket or panel stand

TOOLS REQUIRED

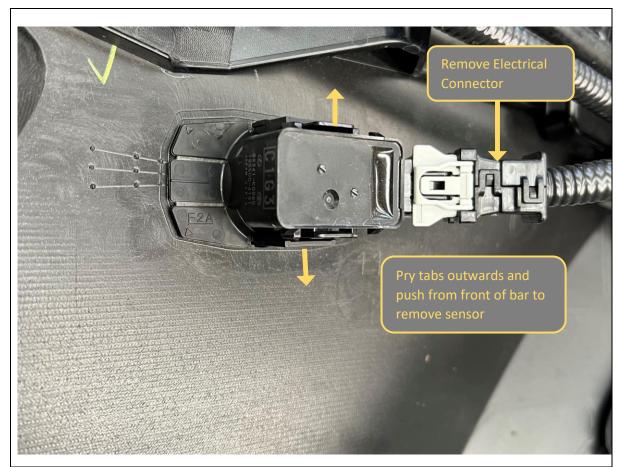


- 19. Disconnect the Fog light harness from the fog light.
- 20. Remove the fog lights from the bumper, by removing the three Philips head screws.
- 21. Remove both the electrical harness, and headlight washer pipes from the bottom half of the bar (not grille), by prying out the clips using trim tool.
- 22. Complete on both sides of bumper.

Phillips head Screwdriver Trim tool

FASTENERS

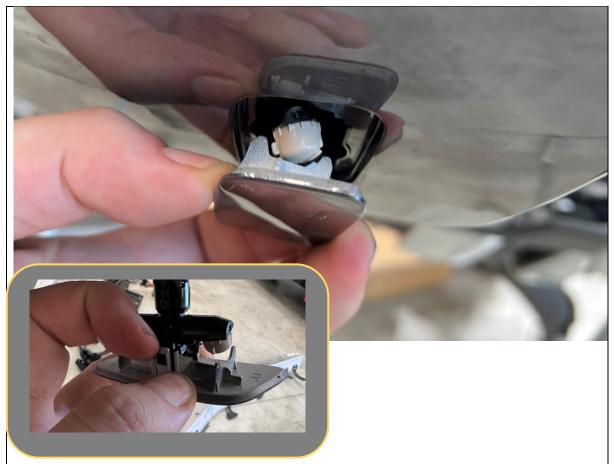
Discard Factory Screws



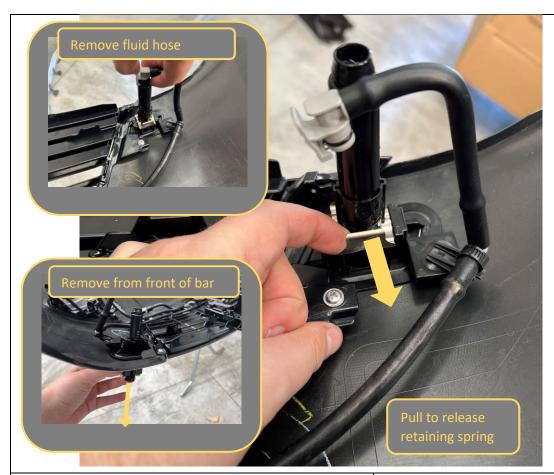
- 23. If car equipped with parking sensors Disconnect the parking sensors from the loom by squeezing the tab, then pulling to disconnect the multi plug connector.
- 24. Pry the two grey retaining tabs on the sensor housing outwards whilst applying pressure to the face of the sensor from the front side of the bumper. The sensor should release from the housing. Remove from the rear side of the bumper.

Take care to ensure the rubber isolation rings remain in place with the sensor

TOOLS REQUIRED



- 25. If equipped, Pull out headlight washer from bumper.
- 26. Release tabs holding trim panel to headlight washer by prying away from headlight washer.
- 27. Allow washer body to retract back into housing.

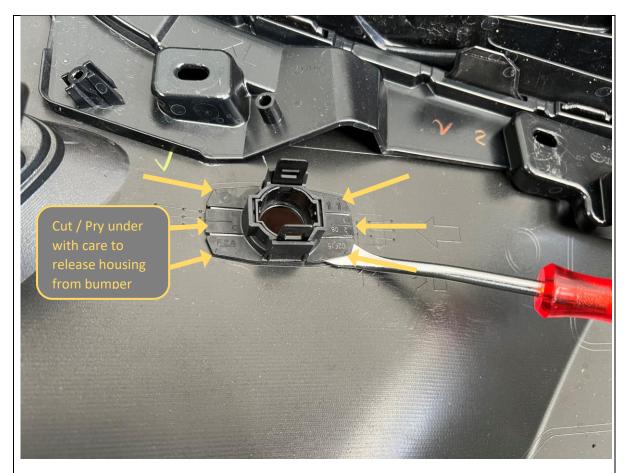


- 28. If vehicle is equipped, remove headlight washers from the bumper. Start by disconnecting the supply hose.
- 29. Release the retaining spring by firmly pulling it as shown in the image.
- 30. Once loose remove the washer by sliding forward, removing through the front of the bumper.



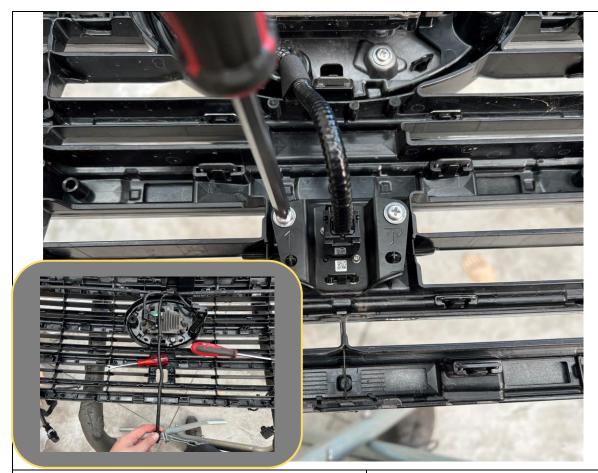
- 31. Remove the Phillips head screw holding the grille surround over the headlight washer.
- 32. Using a utility knife and trim tool carefully cut through the adhesive under the Washer housing and pry it from the bumper
- 33. Set aside housings taking care to note the correct positions for refitment.
- 34. Clean off all adhesive from face of washer mount.

TOOLS REQUIRED Utility Knife Trim Tool



- 35. Remove the sensor housing from the bumper for refitment to the bar
- 36. Using a utility knife and trim tool carefully cut through the adhesive under the sensor housing and pry it from the bumper
- 37. Set aside housings taking care to note the correct positions for refitment
- 38. Clean off all adhesives from face of sensor mount.

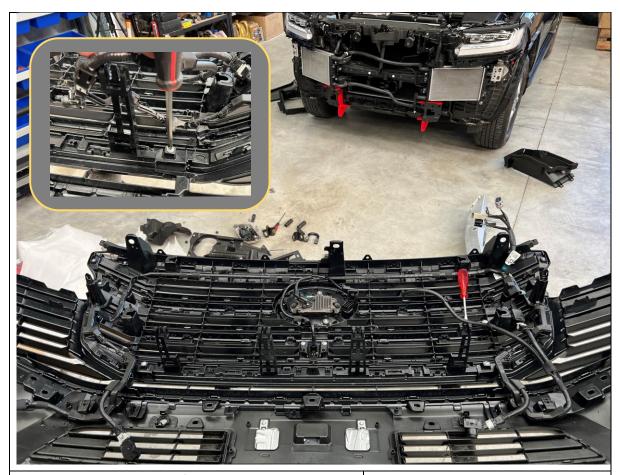
TOOLS REQUIRED Utility Knife Trim Tool



- 39. If vehicle is equipped, remove the front camera from the grille.
- 40. Disconnect the electrical harness, then remove the 2x Phillips head screws securing to bumper.
- 41. Once removed unclip the loom from the grille to allow cable to reach relocated position in bar.

TOOLS REQUIRED lips Head screwdrive

Phillips Head screwdriver, Trim Tool

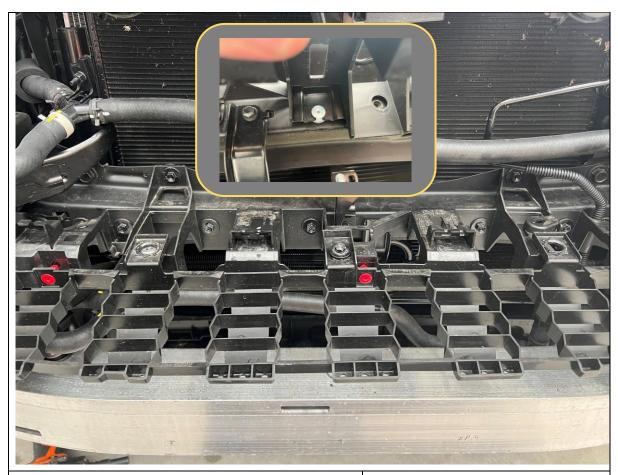


- 42. Separate the grille from the bumper.
- 43. The grille is secured by Phillips head screws and several molded clips
- 44. Begin by removing all Phillips head screws,
- 45. Progressively release clips, starting from outsides, and working towards the center.
- 46. Once separated Refit Grille to the vehicle, reusing all factory fasteners

TOOLS REQUIRED Trim Tool Phillips Head Screwdriver



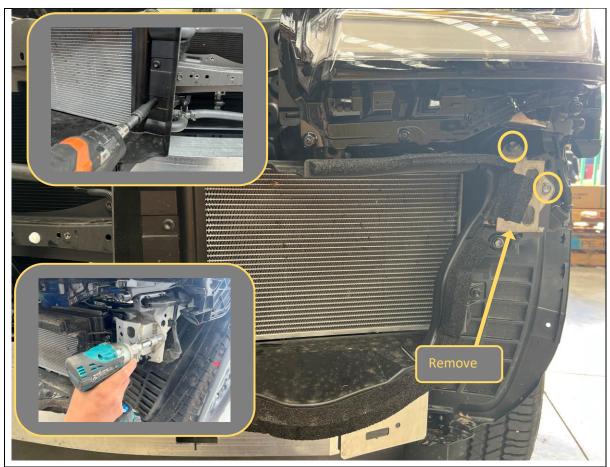
- 47. Remove the Plastic covering the impact beam.
- 48. The plastic is secured by molded clips in the front face, and clips on either end of the beam
- 49. Remove and set aside the plastic impact beam.



50. Remove the Plastic concertina panel by removing the 10mm head bolts and clips securing it to the crossbeam on the car.

TOOLS REQUIRED

10mm socket / spanner Trim tool



- 51. Remove the Plastic intercooler air guides by removing the 4x 10mm head bolts securing them.
- 52. Remove the aluminum can under the headlight by removing bolts securing. Repeat for both sides of vehicle

10mm socket / spanner 12mm Socket / Spanner

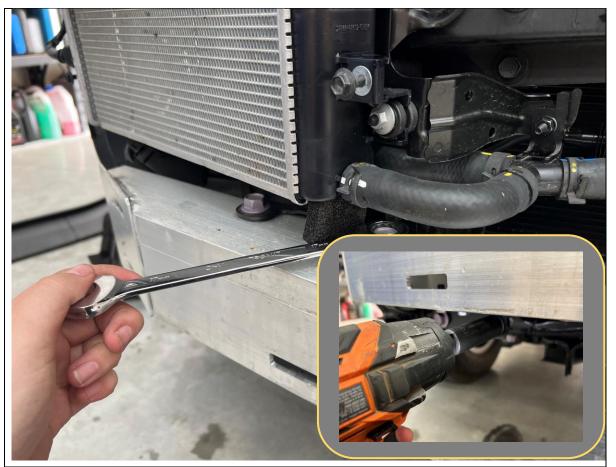
FASTENERS

Retain Factory



- 53. Mark trim to air guide as shown in image.
- 54. Trim air guide along line marked using sharp utility knife.
- 55. Do not re-fit yet, it is easier to do so after mounts are tightened and adjusted.

Utility Knife

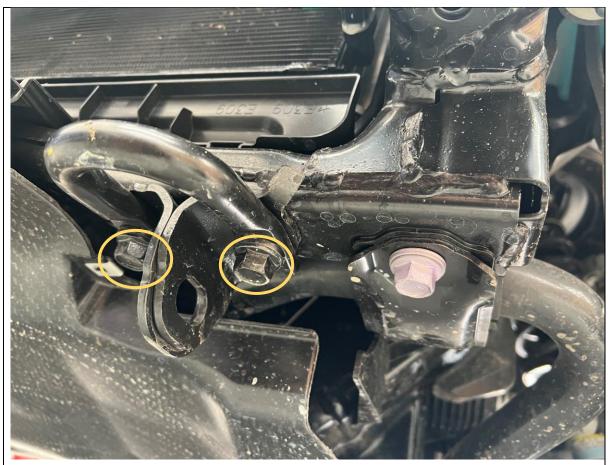


- 56. Remove the 4x 17mm head bolts holding the impact beam to the impact beam brackets
 There are 2x bolts on top and 2x bolts underneath on both sides.
- 57. Remove and set aside the aluminum impact beam.

17mm Socket 17mm Spanner Extension Bar

FASTENERS

8x 17mm Head factory Flange Bolts

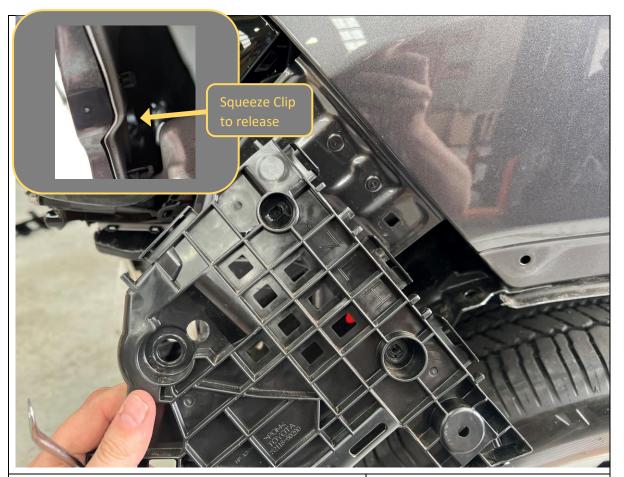


- 58. Remove the 2x 17mm head bolts Tow points to the lower chassis crossmember.
- 59. Remove and set aside the aluminum impact beam.

TOOLS REQUIRED 17mm Socket

FASTENERS

4x 17mm Head factory Flange Bolts



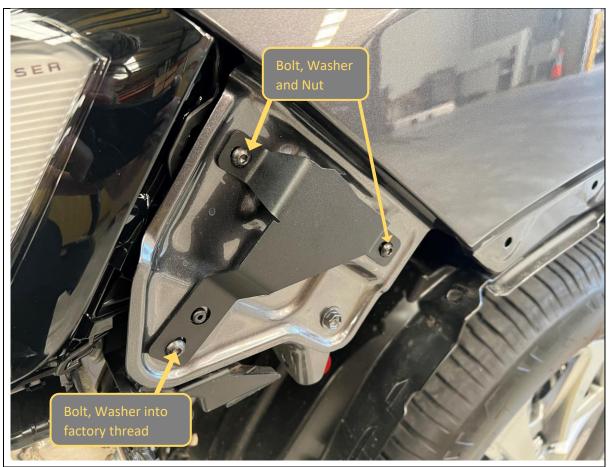
60. Remove the plastic bumper retainers by removing the Philips head and 10mm head screws, then prying out the large clip from behind using trim tool

TOOLS REQUIRED

Phillips head screwdriver 10mm Socket Trim Tool

FASTENERS

Phillips Head screw.



61. Fit the trim support bracket to the top corner of the front guard. Use supplied M6x16mm Button head bolts, Flat washers, and Flange nuts for two rear locations.

Secure with supplied M6x16mm Button head bolts and Flat washer to factory thread in headlight for front point.

62. Complete on both sides of the vehicle.

TOOLS REQUIRED

4mm Hex Key

FASTENERS

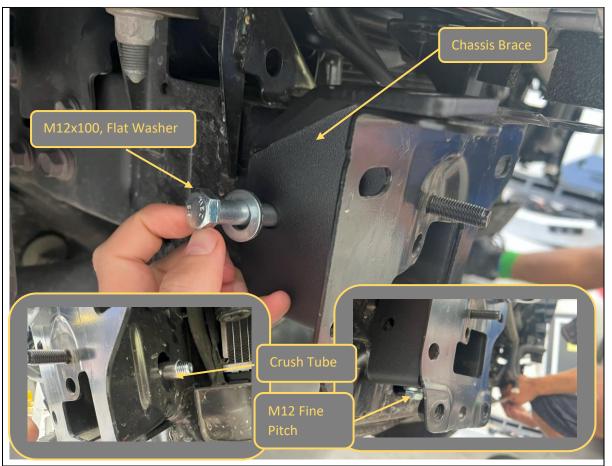
Phillips Head screw.
Discard





- 63. Clean the infill support bracket and the inside of the headlight infill panel with isopropyl alcohol or similar cleaning solvent.
- 64. Apply 3M Primer 94 to all mating surfaces. Break the bulb in the ampule to activate primer dispensing.
- 65. Place at least 3x Strips of VHB double side tape onto the flat portion of the infill support bracket.
- 66. Align and fit the headlight infill panel to the infill support bracket as shown.

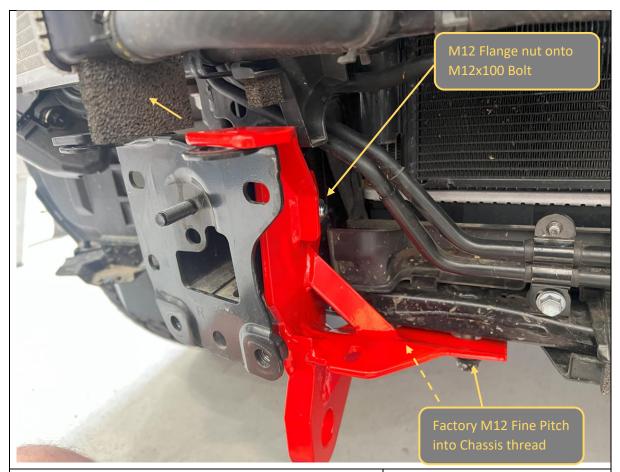
VHB tape, Isopropyl Alcohol Primer 94 Ampule



- 67. Loosely fit the chassis brace to the outside of the chassis, using the supplied M12x100mm Bolt, and flat washer and M12x30 Fine pitch and flat washer from underneath.
- 68. From inside of chassis rail feed crush tube over the M12x100 Bolt

FASTENERS

1x M12x110 Hex Bolt 1xM12x30x1.25 Hex Bolt 2x M12 Flat Washer Per side



69. Loosely fit the tow point to the chassis. First secure with M12 Flange nut on Chassis Brace

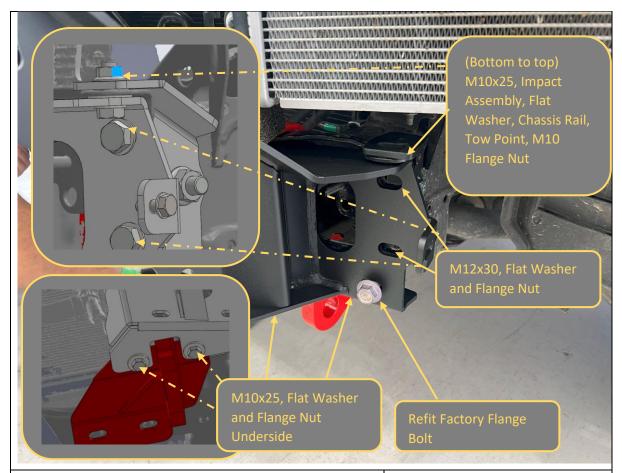
Note: Captive threads in chassis can be tight. Ensure bolts are not cross threaded and drive in manually with socket. Do not tighten at this stage.

70. Leave all bolts finger tight at this stage.

TOOLS REQUIRED

FASTENERS

Factory M12 Fine pitch bolts



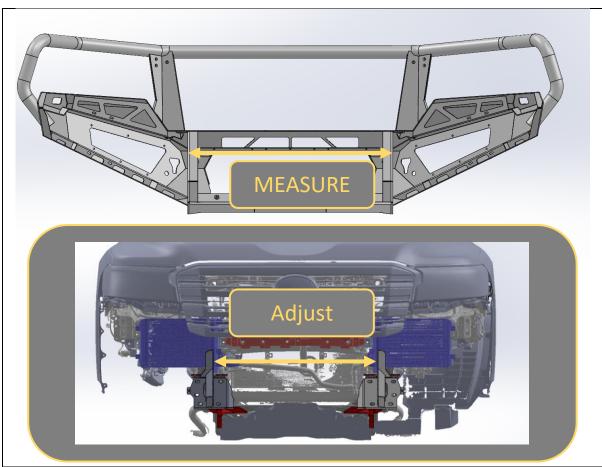
- 71. Loosely fit the Impact mounts to the chassis, re using the original factory flange bolts.
- 72. Loosely fit bolts securing impact assembly to Tow points as per images above.
- 73. Tighten tow point to chassis bolts in the following order.
- 74. First, M12x110 bolt Through the chassis rail,
- 75. Next Factory M12 fine pitch bolts that secure tow point to lower crossmember.
- 76. Leave all bolts that secure tow point to the impact assembly, including the top flange bolts that go through chassis loose at this stage

17 & 18mm Sockets

FASTENERS

4x M10x25 Hex Bolt
4x M12x30 Bolt
4xM10 Flat Washer
4xM12 Flat washers
3XM12 Flange Nut
4x M10 Flange Nut
2x Factory Fine Pitch Bolts

Per side



77. Measure Distance between outside edges uprights on bar using tape measure. Write distance below for reference if required.

Bar Upright Width = ____mm

- 78. Adjust mounts by sliding mounts on slots, such that distance between outside edges of mounts is approximately 2mm less than bar.
- 79. Secure and tighten mounts. Tighten bolts that secure the tow point to chassis first, then impact assembly to tow point bolts.

TOOLS REQUIRED

TAPE MEASURE

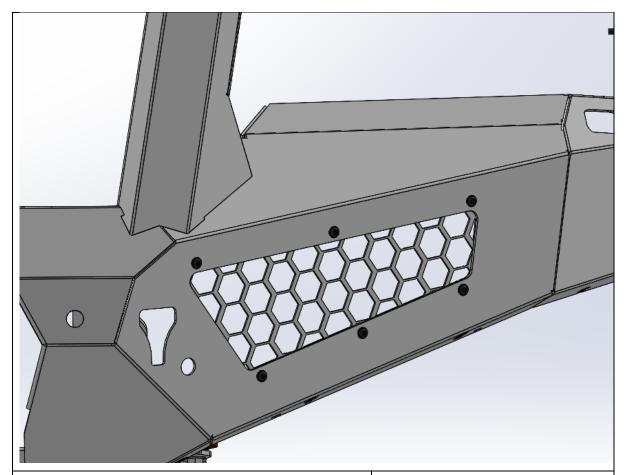


80. Re-fit trimmed air guides using factor	ry rasteners.
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10mm Socket / Spanner

FASTENERS

Factory bolts



81. Fit the mesh panels to the wings, using the supplied M6x16 Button head bolts, flat washers, and Flange Nuts.

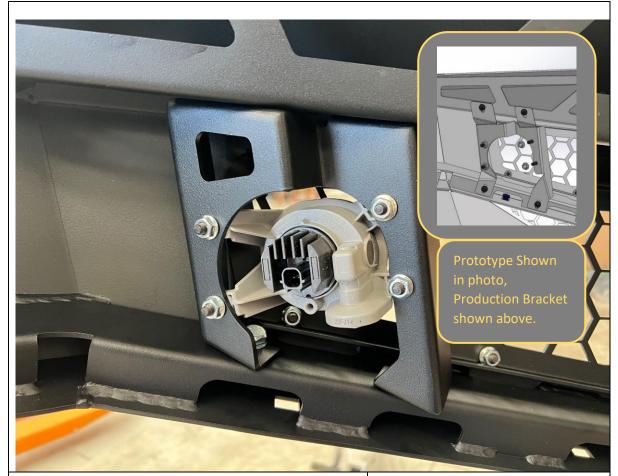
TOOLS REQUIRED

4mm Allen Key
10mm Spanner / Socket

FASTENERS

6x M6x16 BHCS – Black 6x M6 Flat Washer 6x M6 Flange Nut per Side



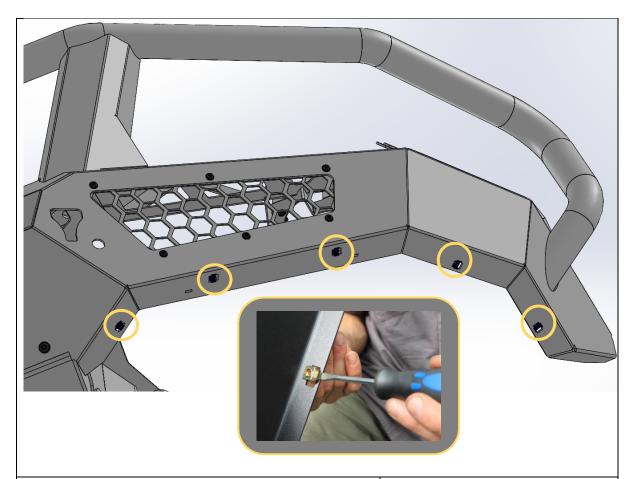


- 82. Re-Fit fog lamps to the Fog light brackets using M6X16 Button head Bolts, Flat washers, and Flange nuts from the Small Parts Kit.
- 83. Secure and tighten using 4mm Allen Key and 10mm Spanner
- 84. Fit the fog light bracket to the wing of the bar, using supplied fasteners.

4mm Allen Key
10mm Spanner / Socket

FASTENERS

8x M6x16 BHCS – Black 8x M6 Flat Washer 8x M6 Flange Nut Per Side



85. Fit 5x Cage nuts from small parts kit to rectangular slots in bottom of wing.

Use a small flat bladed screwdriver to push the edge of the cage to engage with the slot to aid fitting.

86. Repeat for other side of Bar

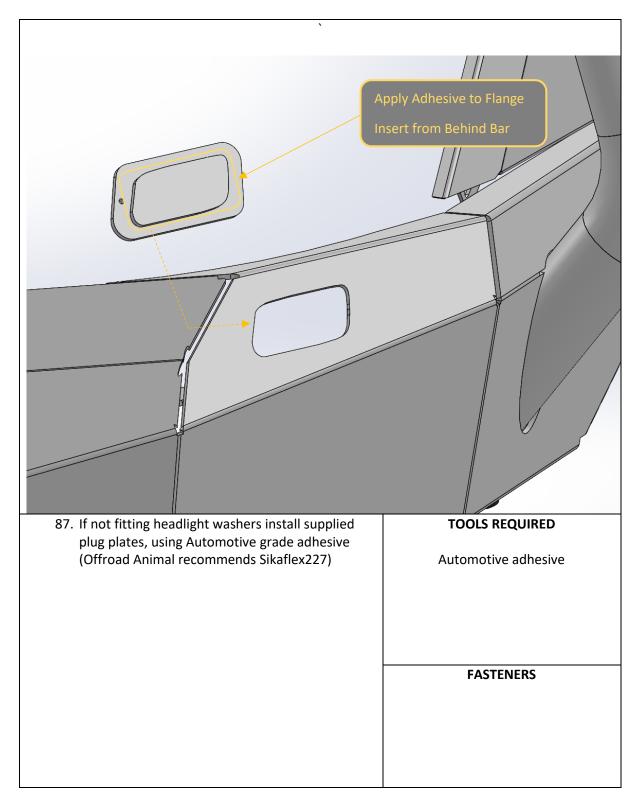
TOOLS REQUIRED

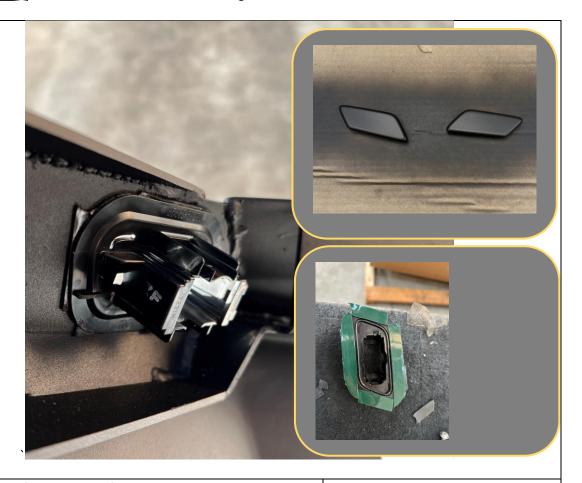
Small Flat Bladed Screwdriver

FASTENERS

5x M6 Cage Nut Per side







- 88. If Equipped Re fit headlight washers to bar. Fitment procedure is reverse of removal
- 89. If the bar is not to be color coded, paint the headlight washer covers black before refitting
- 90. Thoroughly clean both the bar and headlight washers on faces where adhesion will occur.
- 91. Apply Primer 94 to all mating surfaces.
- 92. Apply VHB double side tape to the flange on the headlight washer housing.
- 93. Fit the housing to the cutout in the bar.

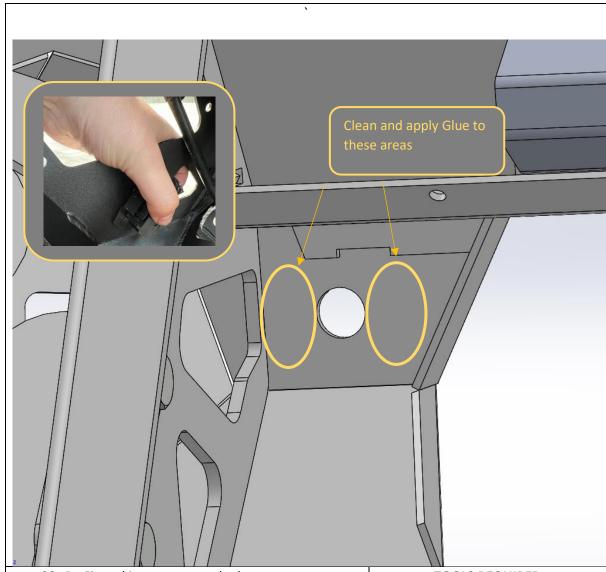
Scotch Brite / Sandpaper Matte Black Paint Isopropyl Alcohol VHB double side tape



- 94. Re fit the headlight washers into the housings, using the opposite of the removal procedure.
- 95. Re fit washer hoses to bar, and to washers.
- 96. Once fitted pull out the washer assembly with long nose pliers and adjust the washer nozzles to squirt towards the headlights, final adjustment can be performed when the bar is fitted to the car.
- 97. For GR Sport and Sahara ZX models, fit the supplied Cover cap instead of re-fitting the original cover.

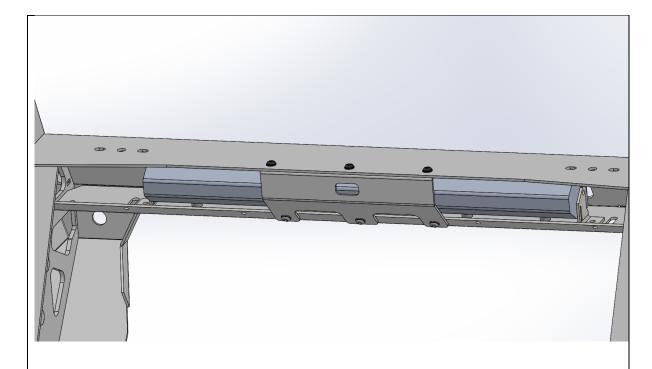
TOOLS REQUIRED
Long Nose Pliers





- 98. Re Fit parking sensors to the bar.
- 99. Clean area on back side of bar adjacent to sensor holes with isopropyl alcohol.
- 100. Refit sensors to housings to help locate housing during adhesion process.
- 101. Apply Primer 94 to all mating surfaces.
- 102. Using supplied tape VHB Pads, re-fit sensor housings to the bar
- 103. Refit Headlight washer hose to bar. Secure using cable ties.
- 104. If parking sensor not fitted, fit cover pugs by pushing into hole.

3M Primer 94 Ampule 3M Tape Pads



105. If Fitting an integrated light bar, do so now.

106. The bar is designed to fit an Offroad Animal 22in or STEDI ST3K 21.5 inch light bar. If fitting this light bar, assemble bar with legs out, and it will line up with the slots in the center gusset. Secure with M8 Fasteners supplied with the light bar.

107. The bar can accommodate most other "20 inch" size light bars.

108. If fitting driving lights to the bar this is also the most convenient time to do so

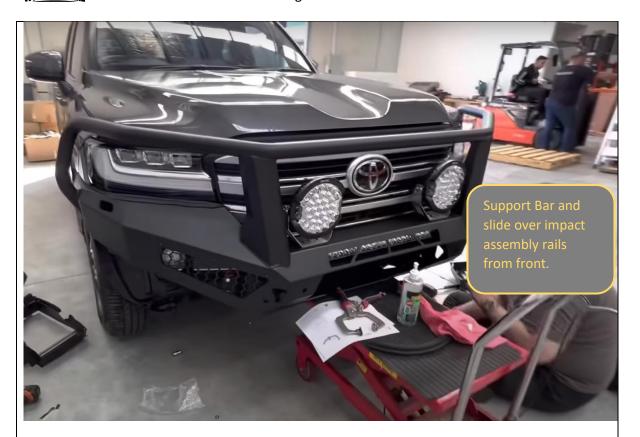
109. After fitting driving lights, fit the Pan brace to the back of the bar, between the pan and center gusset using Supplied M6x16 (top) and M6x12 bolts, Flat washers and Flange Nuts **TOOLS REQUIRED**

13mm Spanner / Socket
4mm Hex Key

FASTENERS

Supplied with Light Bar

3x M6x16 Black BHCS 3x M6x12 BHCS 6x M6 Flat washer 6x M6 Flange Nuts



- 110. With assistance, either from another person, or a lifting trolley, lift the bar onto the mounts on the vehicle.
- 111. Secure with 4x M12x30 Bolts, Heavy Duty washers and M12 Nyloc and Flange Nuts per side, Finger tight at this stage.

Lifting Trolley

FASTENERS

8x M12x30 Bolt 12x M12 Heavy Duty Large Washer 2x M12 Nyloc Nut 12x M12 Flange Nut





112. With assistance, from another person, Align the bar with the edges of the vehicle. Adjust such that the clearances are neat and even side to side.

Acceptable range of clearances shown in image above.

113. Once in position tighten the M12 Bolts using socket and spanner. An impact driver may be used to speed up this process.

TOOLS REQUIRED

Lifting Trolley
18/ 19mm Socket and Spanner





114. If Fitting a winch, do so now.

- 115. If winch has top mount control box, the center tab at bottom of grille will need to be cut off to allow clearance. This can be done with side cutters.
- 116. The bar is designed to fit most low mount winches, in foot down configuration. WARN ZEON 10 is largest winch confirmed to fit.
- 117. The control box can be mounted on top of the winch. Winches usually come with a bracket to allow this. Refer to winch manufacturer.
- 118. Ensure clutch handle will be accessible through the access hole in front mesh panel. Refer to winch instructions regarding changing clutch handle location.

TOOLS REQUIRED

Refer to winch fitting instructions

FASTENERS

Supplied with winch





- 119. If Required, Fit winch fairlead to Mesh Fairlead Mount Use M10 or 3/8" Fasteners supplied with winch. The bar is only compatible with Hawse type fairleads.
- 120. If equipped fit the front camera removed earlier to the mesh fairlead mount using supplied M6x16 button head bolts, Flat washers, and Flange nuts
- 121. Fit Number plate flip bracket to fairlead mount, M8x25 Bolt, Flat washer, Nylon washer and Nylon Lock nut. Ensure nylon washer sits between the bracket and fairlead mount.

13mm Spanner 10mm Spanner 4mm Hex Key

FASTENERS

2x M8x16 Button Head 2x M8x20 Hex Head 2x M8 Flange Nut 4xM8 Flat Washer



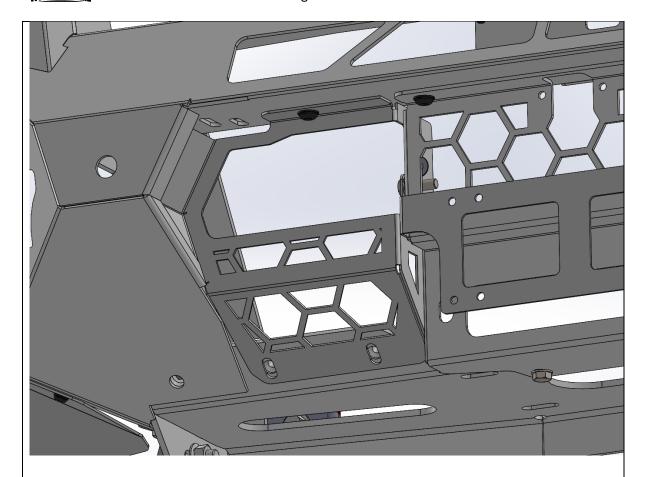


- 122. As the mesh panel is offered to the bar- re connect the front camera wiring harness if equipped
- 123. Fit the Mesh Fairlead Mount to the center of the bar, using M8x16 Button head (Top), M8x20 Hex (Bottom) M8 Flat washers and M8 Flange Nuts (Bottom Only).
- 124. Tighten fasteners using 13mm socket / spanner and 5mm Allen Wrench.

13mm Spanner
5mm Allen Wrench

FASTENERS

2x M8x16 Button Head 2x M8x20 Hex Head 2x M8 Flange Nut 4xM8 Flat Washer



- 125. Fit side Mesh Infill Panels Use M8x16
 Button head bolt, M8 flat washer into the captive thread in the bull bar.
- 126. Don't fit any bolts to bottom holes at this stage.
- 127. Tighten top fasteners using 5mm Hex Key.

13mm Spanner 5mm Allen Wrench 10mm Spanner 4mm Allen Wrench

FASTENERS

2x M8x16 Button Head 2x M6x16 Hex Head 2x M8 Flange Nut 2xM8 Flat Washer 2xM6 Flange Nut 2xM6 Flat washer



128. Re Connect Electrical Harness, fog lights and headlight washer hose.

129. Replace upper radiator cowl using original clips.

TOOLS REQUIRED

FASTENERS

Factory clips (re-use)



- 130. Re-fit parking sensors to housings mounted in the bar, reaching from underneath the wing to do so.
- 131. Reconnect wiring harnesses and cable tie harnesses neatly.

FASTENERS

Factory clips (re-use)

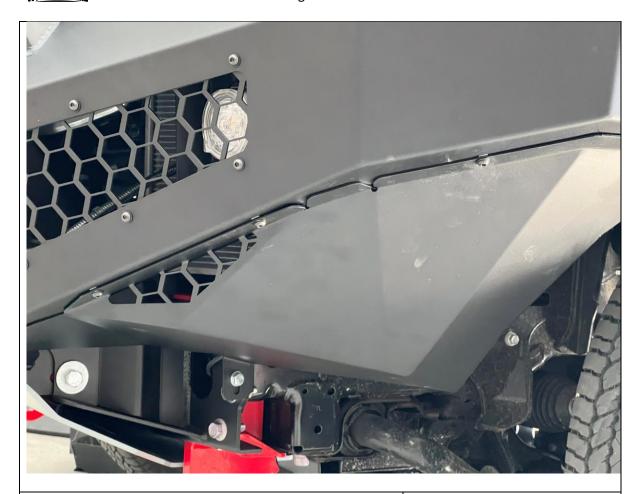


- 132. Remove 4x factory bolts securing the bottom of the tow point to the crossmember.
- 133. Fit Center Bash Plate using, M8x30 button head, flat washer front face. Ensure these fasteners pass through the side mesh panels also.
- 134. Secure back of Center Bash Plate using the flange factory bolts removed earlier. The bash plate should sit immediately below the tow point.
- 135. Tighten Bottom fasteners using 17mm Socket
- 136. Tighten front fasteners using 5mm Hex key.

10, 13 mm Spanner5 mm Allen Wrench

FASTENERS

6x M8x30 Button Head 6xM8 Flat Washer



- 137. Fit Side Under panels using, M6x16 button head and flat washer into the cage nuts placed earlier.
- 138. Tighten with 4mm Allen wrench
- 139. Secure back of side under panel to tow point using M8x20 Hex Bolt, Flat washer, and M8 Flange Nut.
- 140. Leave finger Tight at this stage

FASTENERS

10x M6x16 Button Head 10x M6 Flat Washer 2x M8x25 Hex Head 2x M8 Flange Nut 2x M8 Flat Washer

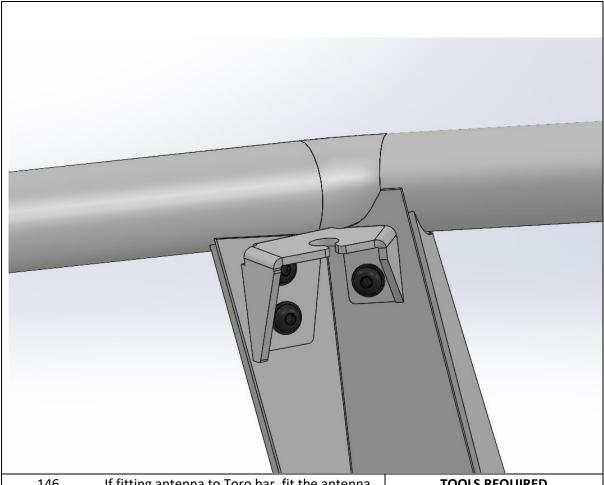




- 141. Using the edge of the under panel as a guide mark the wheel arch liner, approximately 15mm beyond the intersection of the under panel.
- 142. Cut along line as marked using utility Knife
- Tuck the wheel arch liner behind the flange 143. on the under panel
- 144. Tighten all under panel bolts
- 145. Complete for other side of vehicle.

Utility Knife 13mm Spanner 5mm Allen Wrench 4mm Allen Wrench





If fitting antenna to Toro bar, fit the antenna 146. brackets to the M8 Threaded inserts in the uprights.

147. Tighten with 5mm Allen wrench

148. Fit Antenna to the bracket as per antenna manufacturer's instructions

Retain unused brackets for future use. 149.

TOOLS REQUIRED

5MM Allen Key

FASTENERS

3x M8x20 Button Head Screw 3x M8 Black Flat Washer





- 150. Check all Fasteners are tight.
- 151. Re-Fit number plate to number plate flip.
- 152. Head Bush and Enjoy your newly protected Cruiser!

For contact details see www.offroadanimal.com