



**ISUZU D-MAX**  
**RG MY2021-2023**  
**PREDATOR & TORO FRONT BAR**

**IMPORTANT! – READ BEFORE INSTALLATION**

- When installed in accordance with these instructions, the front protection bar does not affect the operation of the vehicle's 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.

## 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.

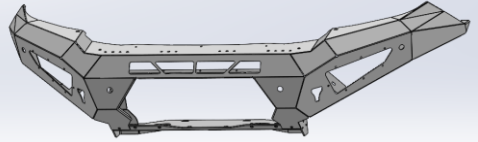
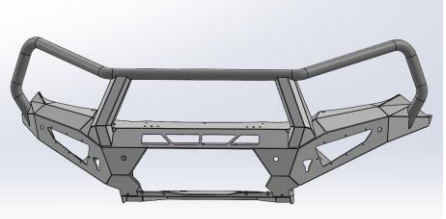
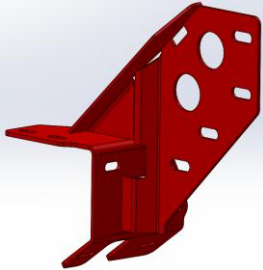
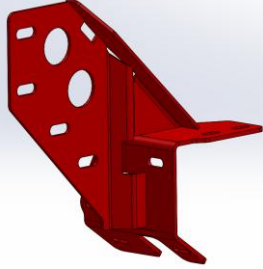
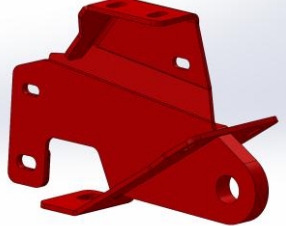
FRONT BAR MOUNTS AND TOW POINTS + REAR TOWBAR	
Size	Torque Nm
M10	57 Nm
M12	100 Nm
M14	164 Nm
M16	248 Nm

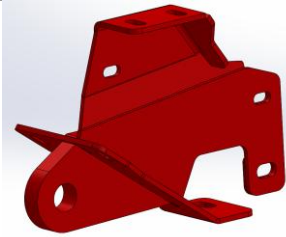
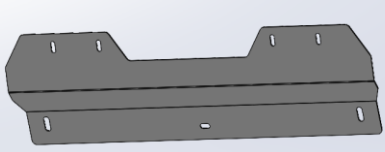
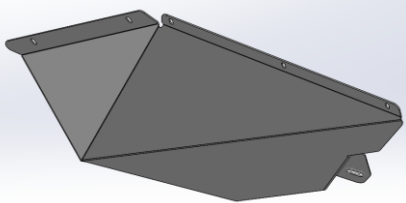
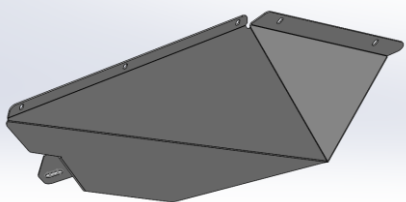
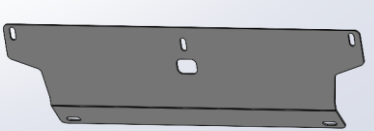
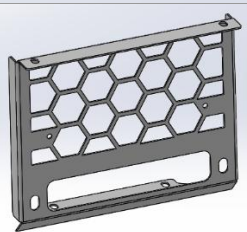
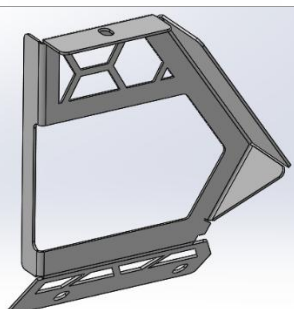
**Always use a torque wrench to set correct torque settings. Ensure torque wrench is set to Nm unit of measurement. Otherwise perform conversion to lb-ft.**

## PARTS LISTING

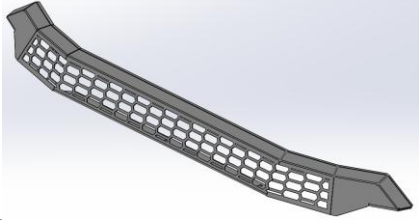
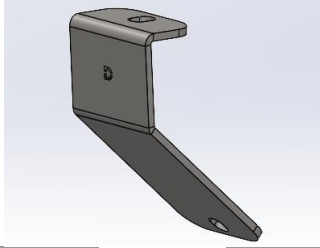
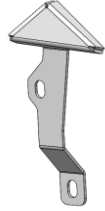
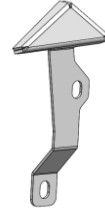
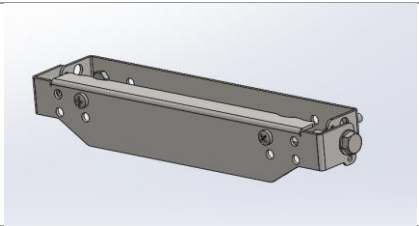



**IMPORTANT:** Check all parts are present before beginning work! Contact OFFROAD ANIMAL if something is missing.

### Main Parts – In the Box

Qty	Part Number	Description	Image
1	FB-IDM-RG-21-PR-ASM1	ISUZU DMAX 21+ PREDATOR WELDMENT	
<b>OR</b>			
1	FB-IDM-RG-21-TOR-ASM1	ISUZU DMAX 21+ TORO WELDMENT	
1	FB-IDM-RG-21-PR-ASM2R	DMAX IMPACT ASSY	
1	FB-IDM-RG-21-PR-ASM2L	DMAX IMPACT ASSY	
1	FB-IDM-RG-21-PR-ASM3R	ISUZU DMAX 21+ TOW POINT ASSY	

1	FB-IDM-RG-21-PR-ASM3L	ISUZU DMAX 21+ TOW POINT ASSY	
1	U-0036	Isuzu DMAX 2021+ Predator Bash Plate	
1	U-0037L	Isuzu DMAX 2021+ Predator Side Underpanel	
1	U-0037R	Isuzu DMAX 2021+ Predator Side Underpanel	
1	U-0041	DMAX 21+ Supplementary Underpanel	
1	M-0014	DMax Predator Center Fairlead Mesh	
1	M-0015L	DMax Predator Side Mesh	

1	M-0015R	DMax Predator Side Mesh	
1	M-0019R	Isuzu DMAX 2021+ Indicator/Fog Mesh Panel	
1	M-0019L	Isuzu DMAX 2021+ Indicator/Fog Mesh Panel	
1	B-0485R	Isuzu DMAX 2021+ Indicator/Fog Bracket	
1	B-0485L	Isuzu DMAX 2021+ Indicator/Fog Bracket	
1	B-0486R	Isuzu DMAX 2021+ Indicator/Fog infill	
1	B-0486L	Isuzu DMAX 2021+ Indicator/Fog infill	

1	B-0487	Isuzu DMAX 2021+ Mesh Grille Fill Panel	
1	B-1055	Isuzu DMAX 21+ Pan brace	
1	B-1293R	D-MAX RG Headlight Corner Infill Bracket RH	
1	B-1293L	D-MAX RG Headlight Corner Infill Bracket LH	
1	NPF-COM-SM-ASM0	Number plate flip asm Small	
1	FB-IDM-RG-21-PR-ADRCF	ADR Compliance Plate DMAX 21+	
1	OFA-LOGO	Offroad Animal Metal Logo	
1	FI Note	Fitting Instruction Note	N/A
4	CPHP035	Plastic Hole Insert, 22MM, Black, Tigerlink Hardware CPHP035	
2	PWS-SIDE-275	Pinch Weld PWS53S - Side Bulb Seal 275mm	N/A

**Small Parts – Contained in Small Parts Kit Bag**

Qty	Part Number	Description
<b>2</b>	FB-IDM-RG-21-PR-ASM4	DMAX 21+ Tow Point Nut Plate
<b>7</b>	M10 FLANGE NUT	Flange Nut, M10x1.5 G8.8 ZP
<b>11</b>	M10 x 30	Bolt Hex, M10X30x[1.5], GR8.8 ZP
<b>11</b>	M10 Flat Washer	M10 FW
<b>18</b>	M12 FW LHD	M12 FW Large Heavy Duty
<b>12</b>	M12X30	Bolt Hex, M12X30x1.75, GR8.8 ZP
<b>4</b>	M12 FLANGE NUT	Flange Nut, M12x1.75 G8.8 ZP
<b>6</b>	M12 Nyloc nut	M12 NYLOC NUT
<b>10</b>	M8 FLAT WASHER- BLACK ZINC	M8 FW- BLACK ZINC
<b>4</b>	M8 X 16 BHCS BZP	SCREW, BUTTON HEAD CAP, M8X16X1.25 GR12.9 BLACK ZP
<b>6</b>	M8 X 20 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M8X20X1.25 BLACK ZP
<b>4</b>	M8 FLANGE NUT	Flange Nut, M8x1.25 G8.8 ZP
<b>10</b>	M6CN3MM	CAGE NUT M6x2.6-3.5
<b>48</b>	M6x16 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M6X16X1 GR12.9 BLACK ZP
<b>48</b>	M6 FLAT WASHER BLACK ZINC	M6 FW BLACK ZP
<b>40</b>	M6 FLANGE NUT	Flange Nut, M6x1 G8.8 ZP
<b>2</b>	M6 X 20 HEX	M6X20 HEX BOLT, ZP, 8.8
<b>2</b>	M6 FLAT WASHER	M6 FW
<b>2</b>	NP-COM-M10-190-ASM0	M10 LOLLYPOP NUT PLATE 190MM LONG
<b>3</b>	M5 FLANGE NUT	Flange Nut, M5x0.8 G8.8 ZP
<b>3</b>	M5 Flat washer	M5 FW
<b>3</b>	M5X15 BHCS	SCREW, BUTTON HEAD CAP, M5X15X0.8 GR12.9 ZP
<b>4</b>	M8 FLAT WASHER	M8 FW
<b>4</b>	M8 X 20 HEX	Bolt Hex, M8X20x1.25, GR8.8 ZP

**TORO EXTRA Parts – IN ADDITION to PREDATOR Parts**

Qty	Part Number	Description
<b>2</b>	B-0523	Toro Antenna Bracket - 90 Degree
<b>4</b>	M8 X 20 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M8X20X1.25, ISO4042 ZnNi BLACK PASSIVATED FINISH
<b>4</b>	M8 FLAT WASHER- BLACK ZINC	M8 FLAT WASHER, 16.5x8.4x1.2, ISO4042 ZnNi BLACK PASSIVATED FINISH



## TOOLS REQUIRED

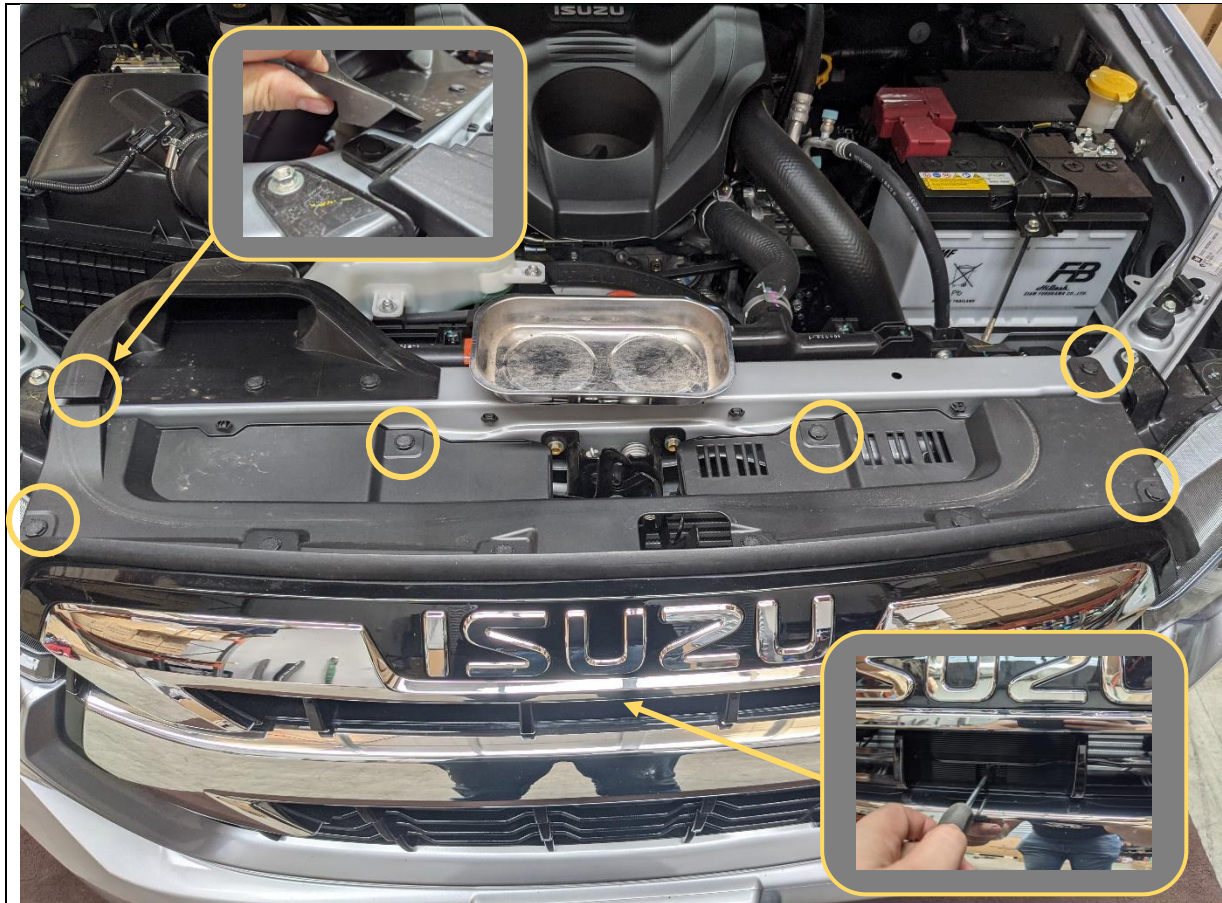
The following tools will be required to install the product.

Hand Tools	Power Tools	Workshop Equipment
Metric Socket Set 8-19mm Socket Extension Bar Metric Spanner Set 10-19mm Torx Drivers T25-T30 Hex (Allen) Key Set 4-6mm Trim Puller Tool Flat Blade Screwdriver set Phillips Head Screwdriver set Utility Knife Side Cutters Pliers	Electric Drill 6mm Drill Bit  Air Hacksaw or Angle Grinder  Electric/Air Impact Driver (Optional)	Panel Stand or Soft Blanket Cable Ties Masking Tape Black Automotive paint Scotch Brite or Fine Sandpaper Automotive Sealant/Adhesive Bucket Hose Clamp

## 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. Open the Bonnet.
2. Remove the 4x Clips securing the top of the grille by levering up center part using small flat blade screwdriver
3. Remove phillips head screw securing bottom of grille underneath "ISUZU" badge.
4. Remove the top portion of the grille from the car.

**TOOLS REQUIRED**

Small Flathead Screwdriver  
Phillips Head screwdriver

**FASTENERS**

Retain Factory Clips and Screw



5. Remove the three screws securing the bottom edge of the bumper, using 10mm Socket / Spanner.


**TOOLS REQUIRED**

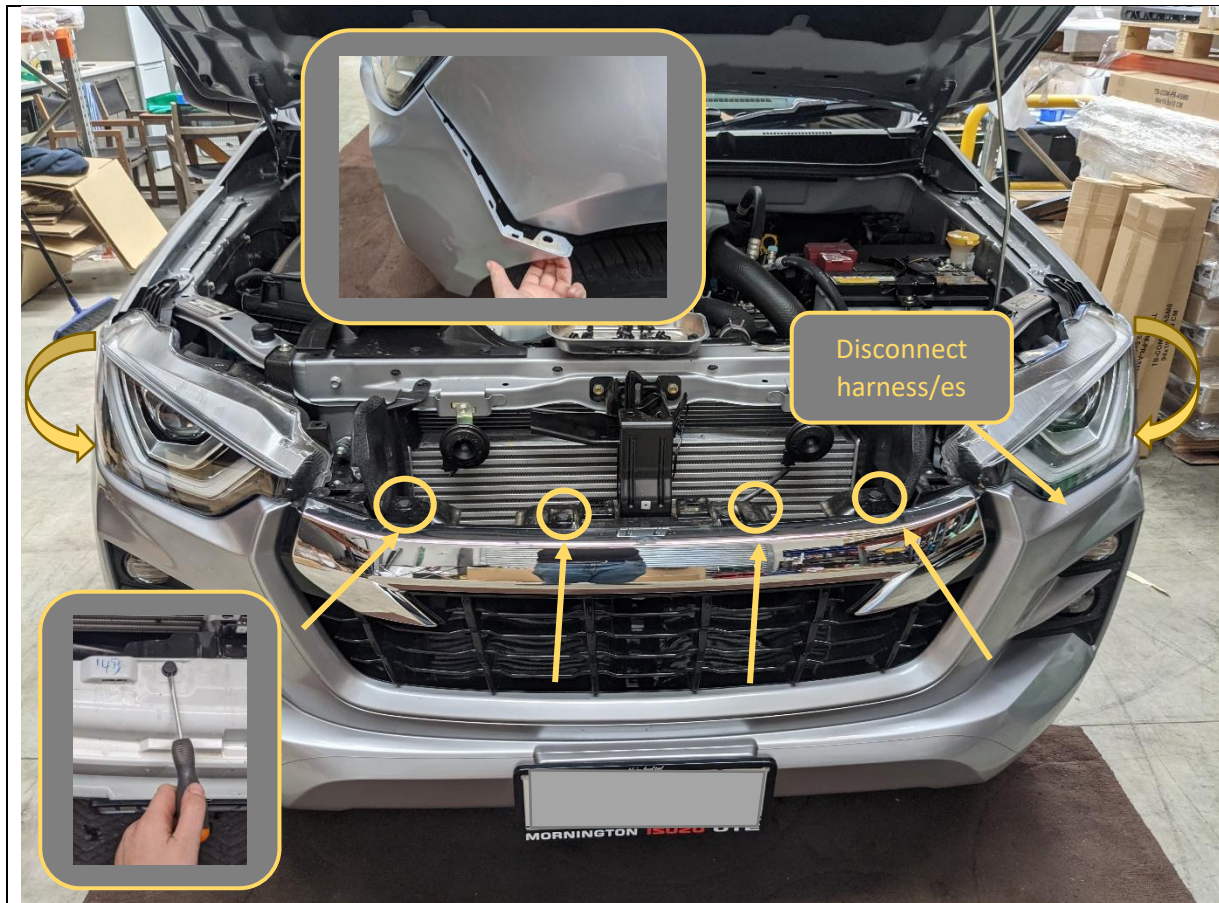
10mm socket / spanner

**FASTENERS**

Discard



	
<ol style="list-style-type: none"><li>6. Remove the clips on the underside of the wheel arch by the bumper to quarter panel seam, and under the bottom of the bumper near wheel as shown.</li><li>7. Remove using same technique as other clips.</li><li>8. Remove the 10mm nut securing bottom of bumper.</li><li>9. Repeat for other side of vehicle.</li></ol>	<b>TOOLS REQUIRED</b>  10mm socket Trim Tool
	<b>FASTENERS</b>  Factory Clip and Nut



10. Remove the 4x clips securing the center of the bumper using small flat blade screwdriver to pry up the center section.
11. Release the bumper clips by pulling bumper away from bottom of headlights, starting from the outside and working in.
12. When bumper is loose, reach in and disconnect the fog light wiring harness located under the left hand headlight.
13. Remove bumper from car and set aside on soft blanket or panel stand.

**TOOLS REQUIRED**

Small flat blade screwdriver

**FASTENERS**

Factory Clips



14. Remove the front skid plate by removing the 5x 14mm head bolts securing it to the chassis. Note 3x of the bolts are recessed into the skid plate, shown with arrows.

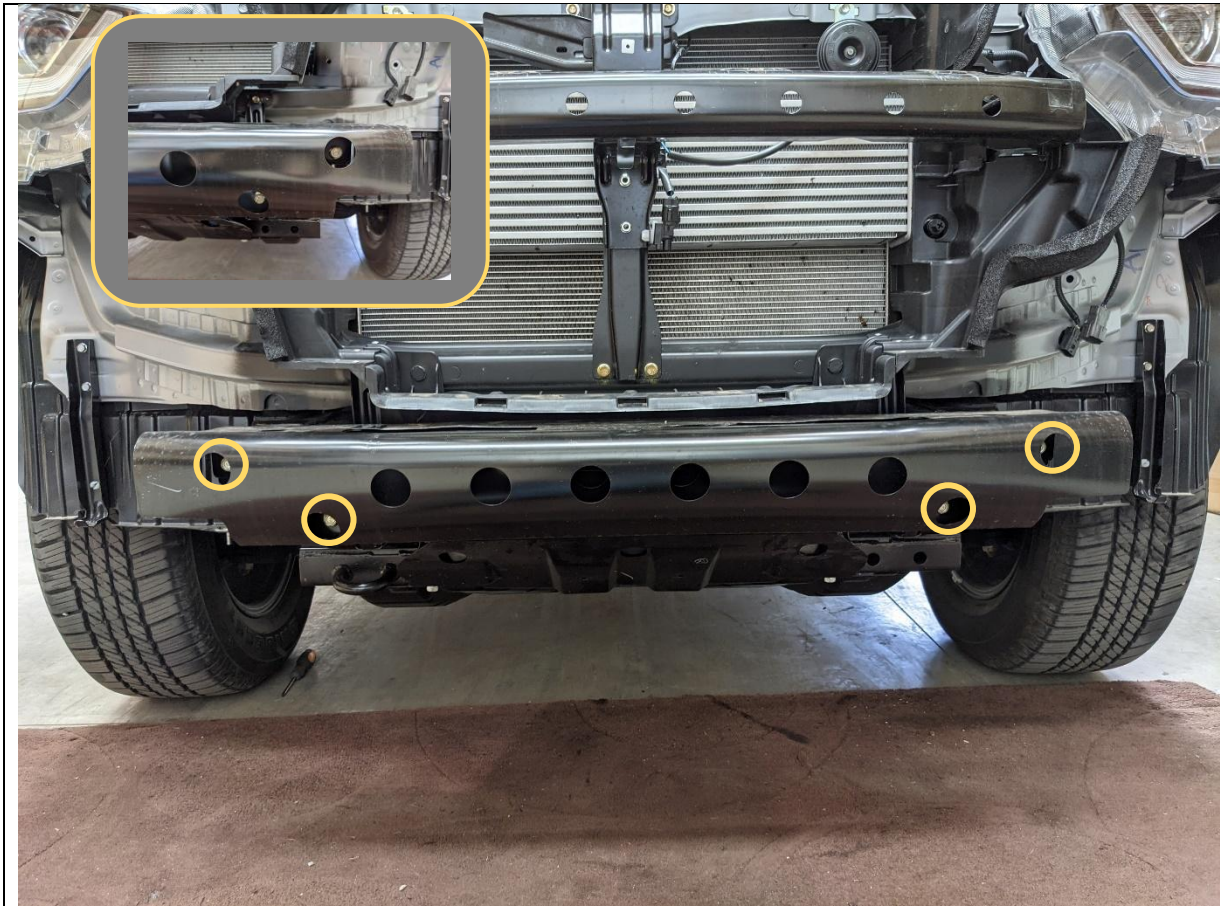
**TOOLS REQUIRED**

14mm socket  
Short extension bar

**FASTENERS**

Factory 14mm head bolts.  
Retain for refitment.





15. Remove the 4x 14mm head bolts that secure the impact beam to the chassis
16. Remove and discard the impact beam. Retain bolts for fitting of mount.

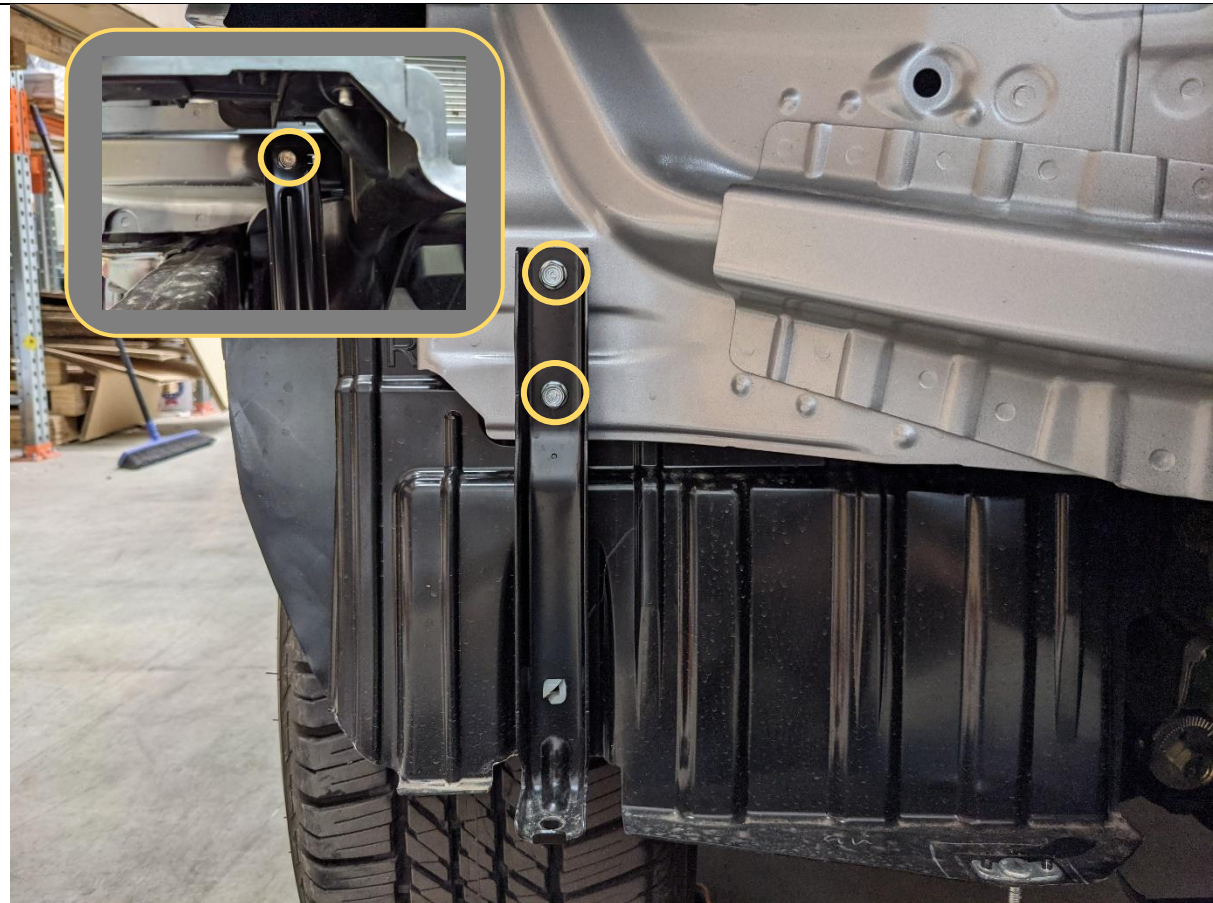
**TOOLS REQUIRED**

14mm socket

**FASTENERS**

Retain for re-fitment of mounts





17. Remove the 10mm bolts securing the bottom bumper supports.

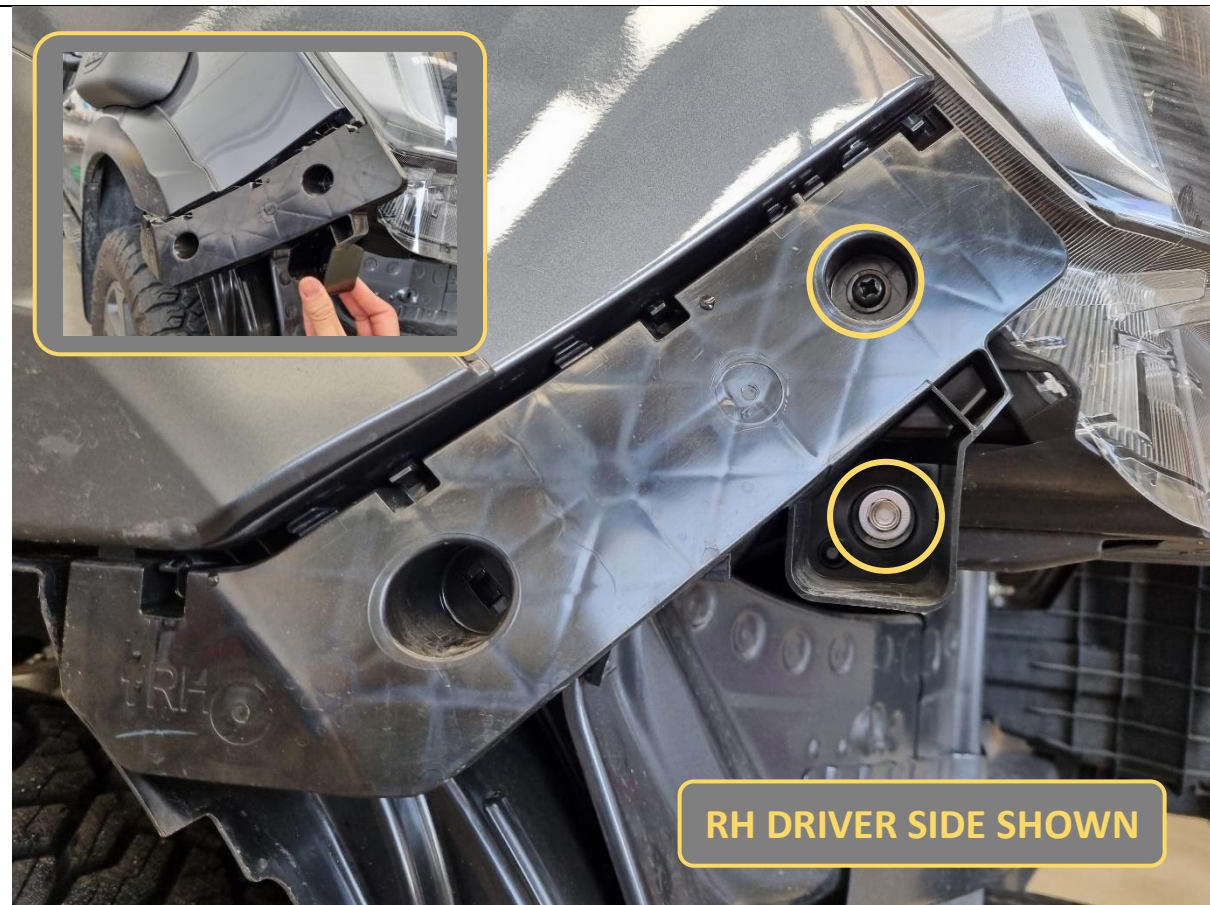
18. Remove and discard the bumper supports.

**TOOLS REQUIRED**

10mm socket

**FASTENERS**

Factory 10mm head bolts  
Discard



19. Remove the 1x 10mm hex bolt and 1x Phillips head screw securing the outer plastic bumper clip. Retain the hex bolt.
20. Remove the outer plastic bumper clip. A firm tug will be required to release the clips. Discard afterwards.
21. Do this for both sides.

**TOOLS REQUIRED**

Phillips head screwdriver  
10mm socket

**FASTENERS**

2x Phillips head screw (discard)  
2x factory 10mm hex bolt (retain)



22. Clean the corner of the quarter panel with isopropyl alcohol and a rag, as indicated by the arrow.
23. Also clean the top flange surfaces of the supplied headlight corner infills, as indicated by the arrows in the above inset image.

**TOOLS REQUIRED**

Isopropyl alcohol  
Workshop rag

**FASTENERS**





24. Apply 1x 30x6mm VHB tape strip to each headlight corner infill, as shown.

25. Peel off the red backing film for the tape strip, then adhere the headlight corner infill to the quarter panel.

Note the top bolt hole of the infill is fitted behind the quarter panel sheet metal, and the lower bolt hole on the outside of the headlight.

26. Hold the infill in place and press firmly up against the quarter panel for at least 20 seconds for the tape to properly adhere.

27. Secure the top of the headlight corner infill with 1x M6x16 button head bolt, black flat washer and flange nut. Secure the bottom by re-using the factory 10mm hex bolt into the headlight.

28. Repeat for other side.

#### TOOLS REQUIRED

4mm hex/Allen key  
10mm socket/spanner

#### FASTENERS

2x M6x16 black button head bolt  
2x M6 black flat washer  
2x M6 flange nut  
  
2x factory 10mm hex bolts



29. Trim the plastic air guide along the marking as shown.
30. It is easiest to remove the guide from the vehicle before trimming. Guide is secured with clips
31. Replace the top section of trimmed guide once cuts are completed.

**TOOLS REQUIRED**

Utility knife or  
air hacksaw

**FASTENERS**





32. Unplug the electrical connectors from the fog light and indicators.

33. Remove the harness clips from the bumper using a trim tool.

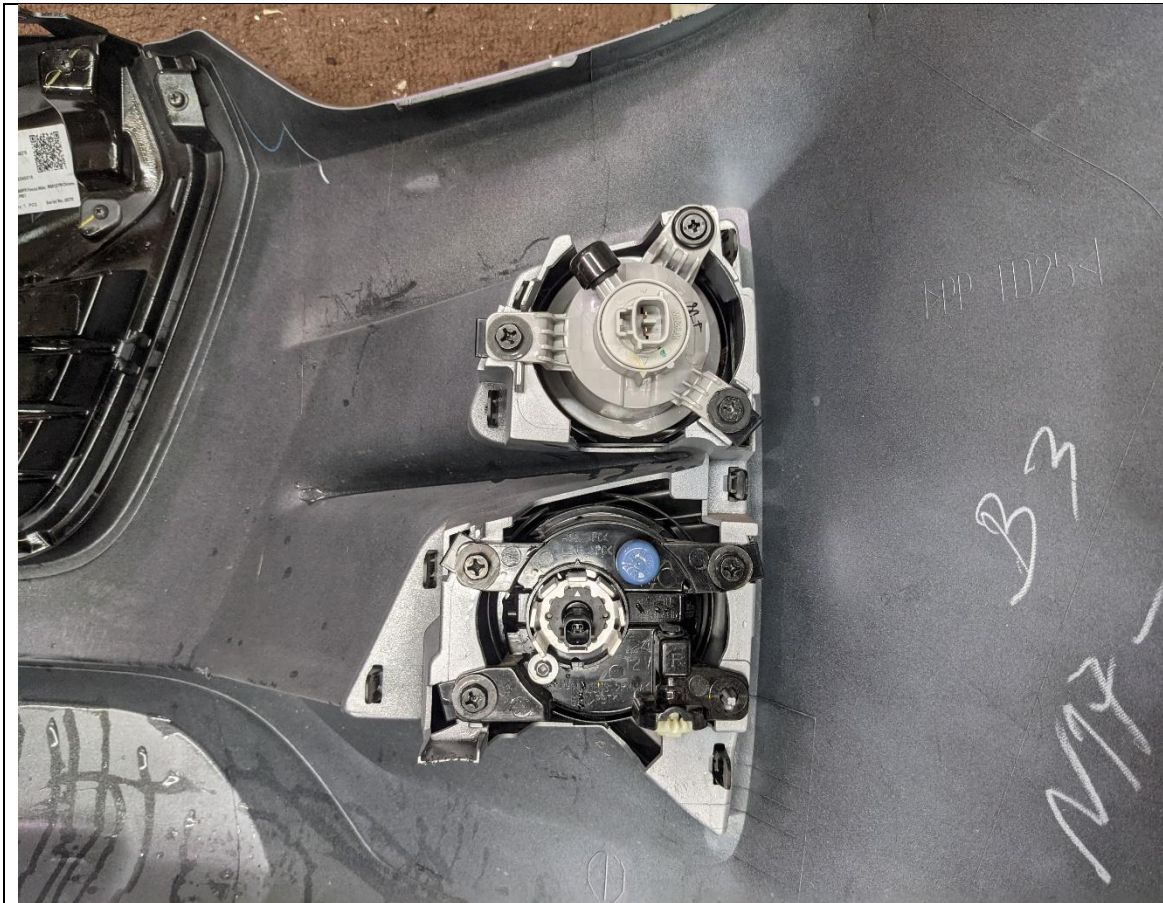
34. Set aside harness for re-fitment to Offroad Animal Bar.

35. If equipped, remove the parking sensors and parking sensor harness from the bumper.

#### TOOLS REQUIRED

Trim Tool

#### FASTENERS



36. Remove the indicator and fog lights from the bumper using Phillips head screwdriver.

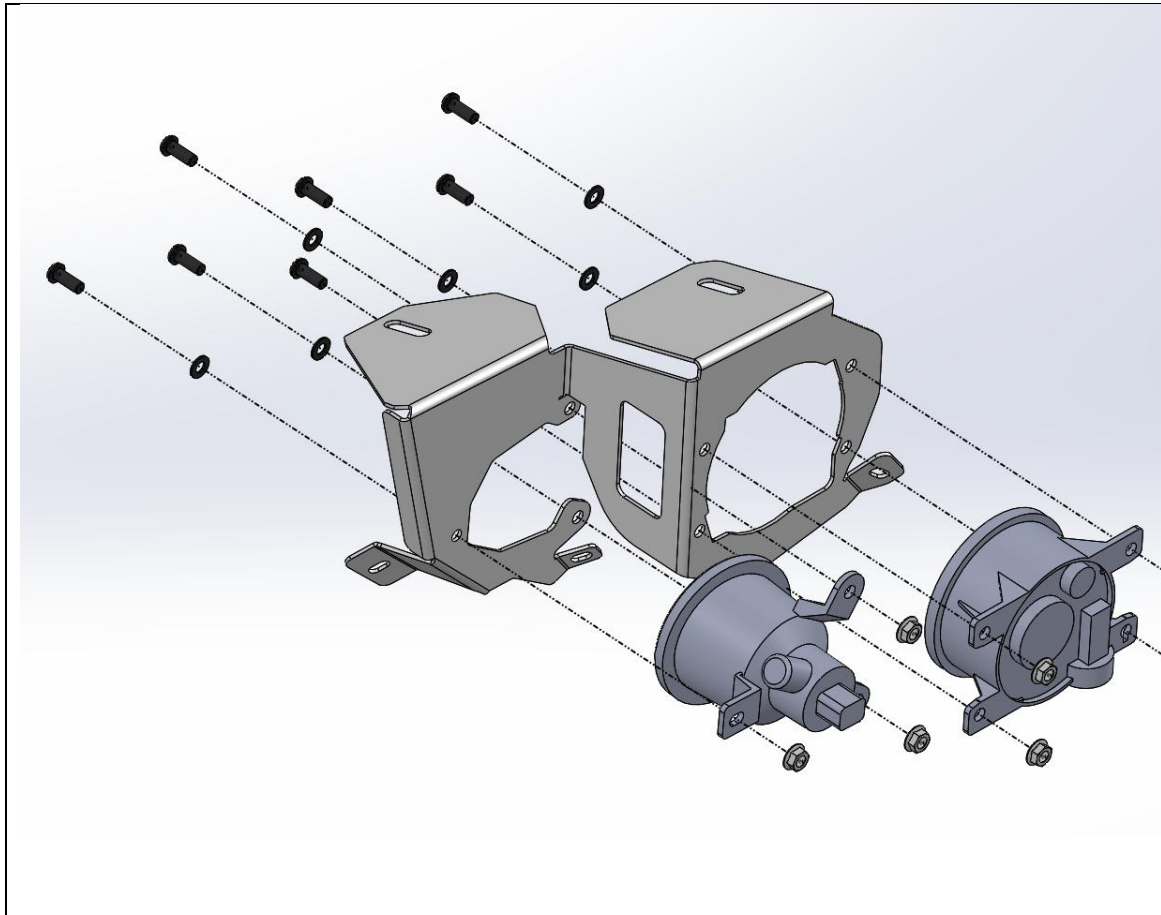
37. Discard the factory Philips head screws.

**TOOLS REQUIRED**

Phillips head screwdriver

**FASTENERS**

OE Philips head screws



38. Fit the fog light and indicator to the light mounting bracket supplied in the kit using supplied M6x16 button head screws, flat washers, and flange nuts.
39. Lights sit on the back side of the bracket. Take care to ensure the correct handed lights are re-fitted.

**TOOLS REQUIRED**

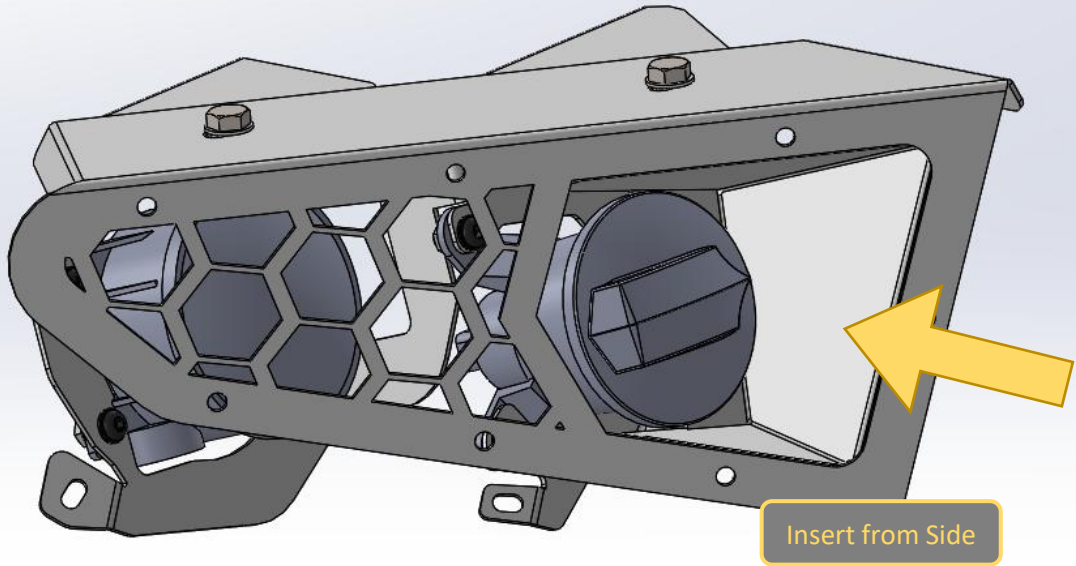
4mm Allen Key

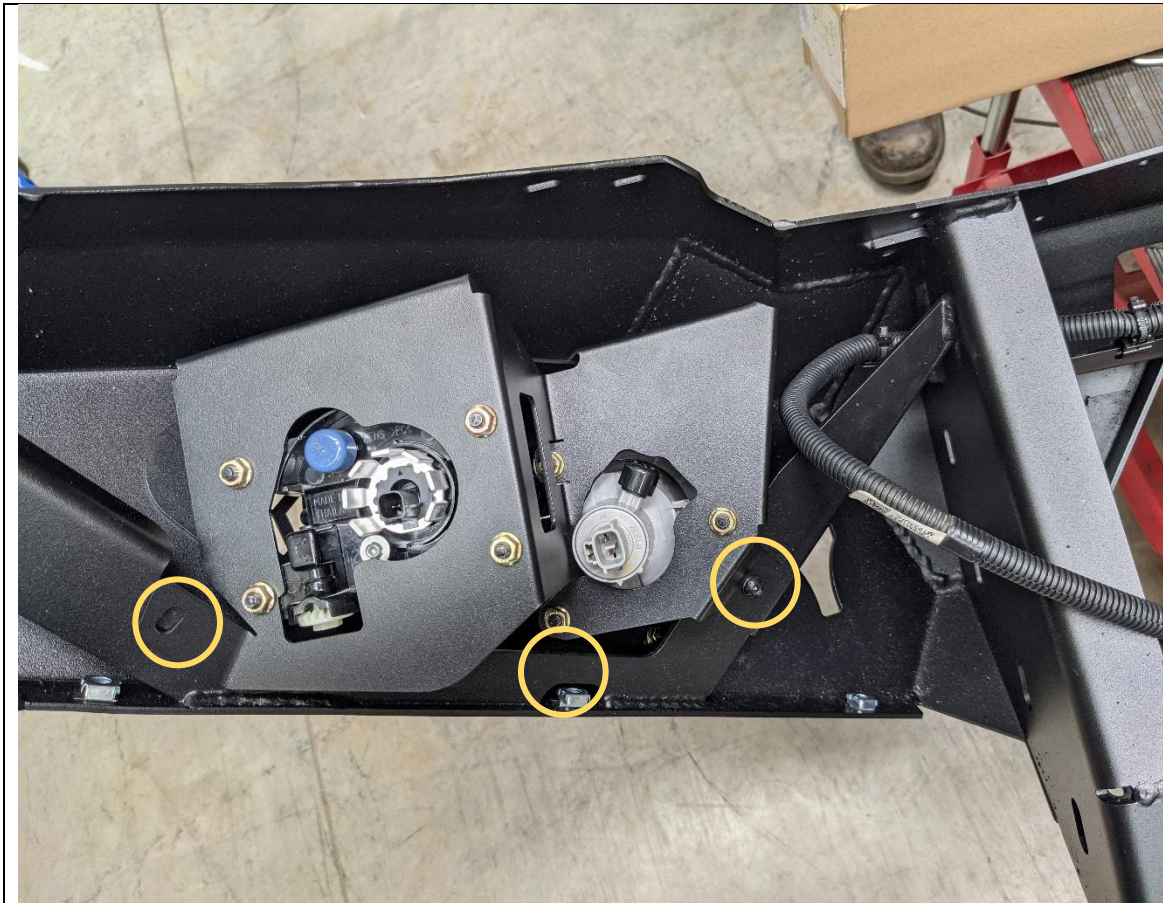
**FASTENERS**

7x M6x16 Button Head Screw  
7x M6Flat Washer  
7x M6 Flange Nut

Per side



	
<p>40. Fit the light bracket to the mesh cover panel using supplied M8x20 bolts, flat washers, and flange nuts.</p> <p>41. As the light bracket is being positioned with the mesh panel, insert the B-0486 indicator trim bracket in position between the indicator and the mesh panel, from the side.</p>	<p><b>TOOLS REQUIRED</b></p> <p>13mm Spanner / Socket</p>
	<p><b>FASTENERS</b></p> <p>2x M8x20 Bolts, 2x M8 Flat washers 2x M8 Flange Nuts</p> <p>Per Side</p>



42. Insert the assembled light bracket / mesh panel into the wing of the bar.
43. Secure to wing brace with supplied M6x16 button head bolts, washers, and flange Nuts.

**TOOLS REQUIRED**

4mm Hex Key

**FASTENERS**

3x M6x16 Button Head Screw  
3x M6 Flat Washer  
3x M6 Flange Nut

Per side



44. Secure to the wing of bar using with supplied M6x16 button head bolts, washers, and flange Nuts.
45. Re install wiring harness to bar and plug in connectors for fog light and indicators.
46. If equipped, re fit parking sensors to bar by relocating original housings to the holes on the bar.

**TOOLS REQUIRED**


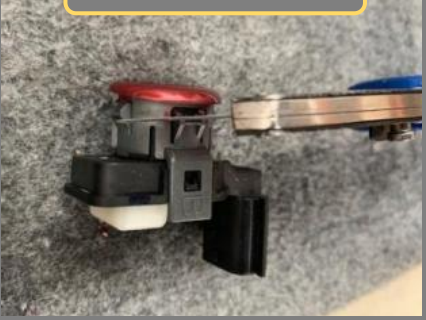

4mm Hex Key

**FASTENERS**

7x M6x16 Button Head Screw  
7x M6 Flat Washer  
7x M6 Flange Nut

Per side



<div data-bbox="373 241 657 280" data-label="Caption">Refit Sensor to Housing</div>  <div data-bbox="400 719 657 752" data-label="Caption">Trim Protruding Tabs</div> 	<div data-bbox="979 423 1310 495" data-label="Caption">Modified Sensor Housing – Ready for Re-Installation</div> 
<p>47. If equipped with parking sensors, you'll need to do a small mod to allow them to grip on the bull bar which is thicker than the factory bumper.</p> <p>48. Fit sensor back into housing (top left).</p> <p>49. Using a Utility knife trim 2mm off the front of the push in tabs (up to the join in the middle as shown in bottom left) Do for all 4 tabs around sensor.</p> <p>50. The photo shown on the right is a completed sensor. Repeat for other sensors.</p> <p>51. Re-fit parking sensors to bar by relocating original housings to the holes on the bar.</p> <p>52. If parking sensors not equipped fit plastic blanking plugs to parking sensor holes on bar.</p>	<p><b>TOOLS REQUIRED</b></p> <p>Utility Knife</p>
	<p><b>FASTENERS</b></p>



53. If fitting an integrated light bar, do so now. Leave bolts loose at this stage to allow fitment of mesh panels.

54. The bar is designed to fit a Offroad Animal 22 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 fasteners supplied with the light bar.

55. The bar can accommodate most other "20 inch" size light (20-22 inch long) bars

56. If fitting stealth top hoop or round lights do so at this stage.

57. Fit the Lower Grille mesh panel to the top pan of the bar.

58. Fit the Pan Brace between the center gusset and top of pan at the center using supplied fasteners. The top fastening uses the same bolt as the center of the lower grille mesh panel.

#### TOOLS REQUIRED

Refer to light bar instructions

3mm hex/Allen key  
4mm hex/Allen key

#### FASTENERS

Supplied with Light bar

3x M5x15 button head  
3x M5 flat washer  
3x M5 flange nut

1x M6x16 Button  
1x M6 Flat washer  
1x M6 Flange Nut



59. 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.

**TOOLS REQUIRED**

Flat Blade Screwdriver

**FASTENERS**

5x M6 cage nuts

Per side



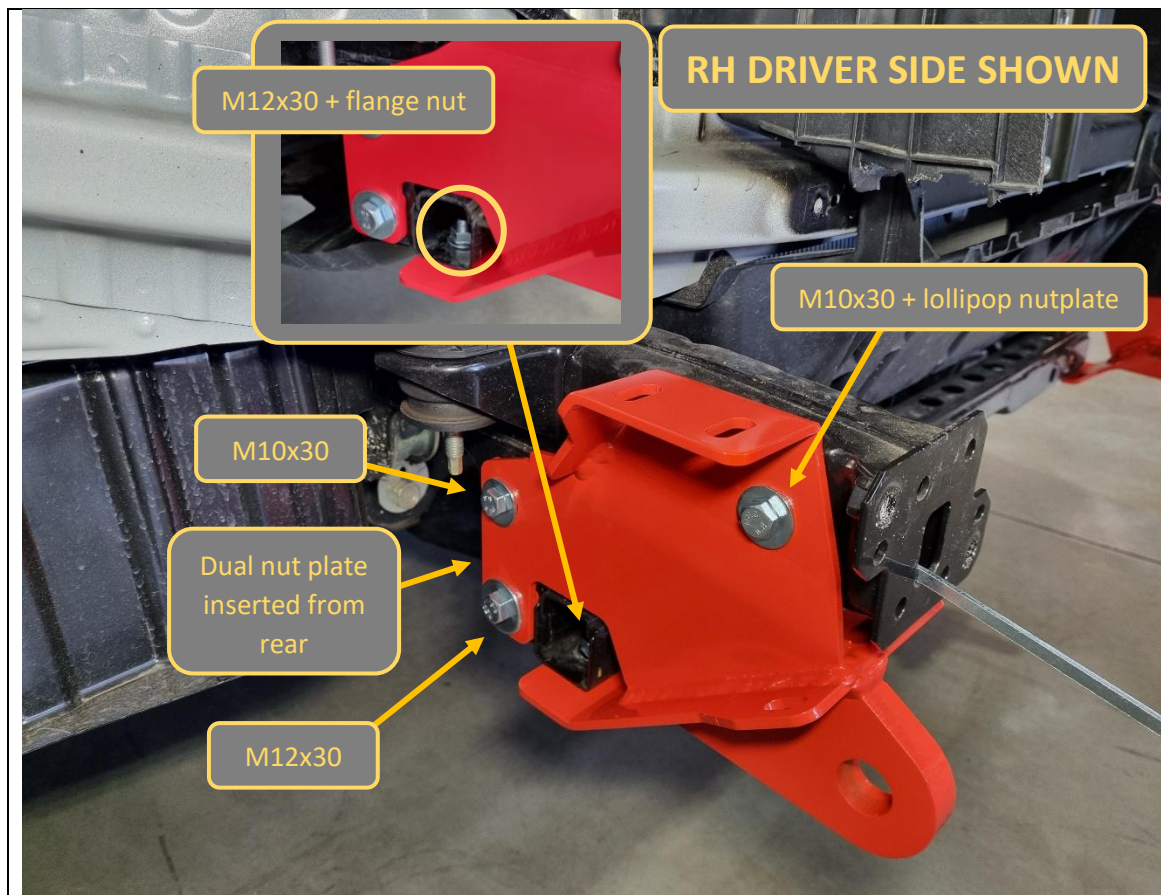


60. Fit the supplied lengths of side bulb pinch weld rubber to the outermost edge of the wing on each side of the bullbar.

61. Trim to length if required.

**TOOLS REQUIRED****FASTENERS**

2x side bulb pinch weld rubber



62. Fit the tow point to the outside of the chassis rail.

63. Loosely secure the bottom of the tow point to the horizontal chassis cross member with 1x M12x30 hex bolt, heavy-duty washer and flange nut.

64. Insert 1x M10 lollipop nutplate through the front opening of the chassis rail, then loosely secure to the tow point with 1x M10x30 hex bolt and heavy-duty washer.

65. Insert the dual nutplate through the back of the chassis drop member and loosely secure to the tow point with 1x M12x30 hex bolt, 1x M10x30 hex bolt and heavy-duty washers.

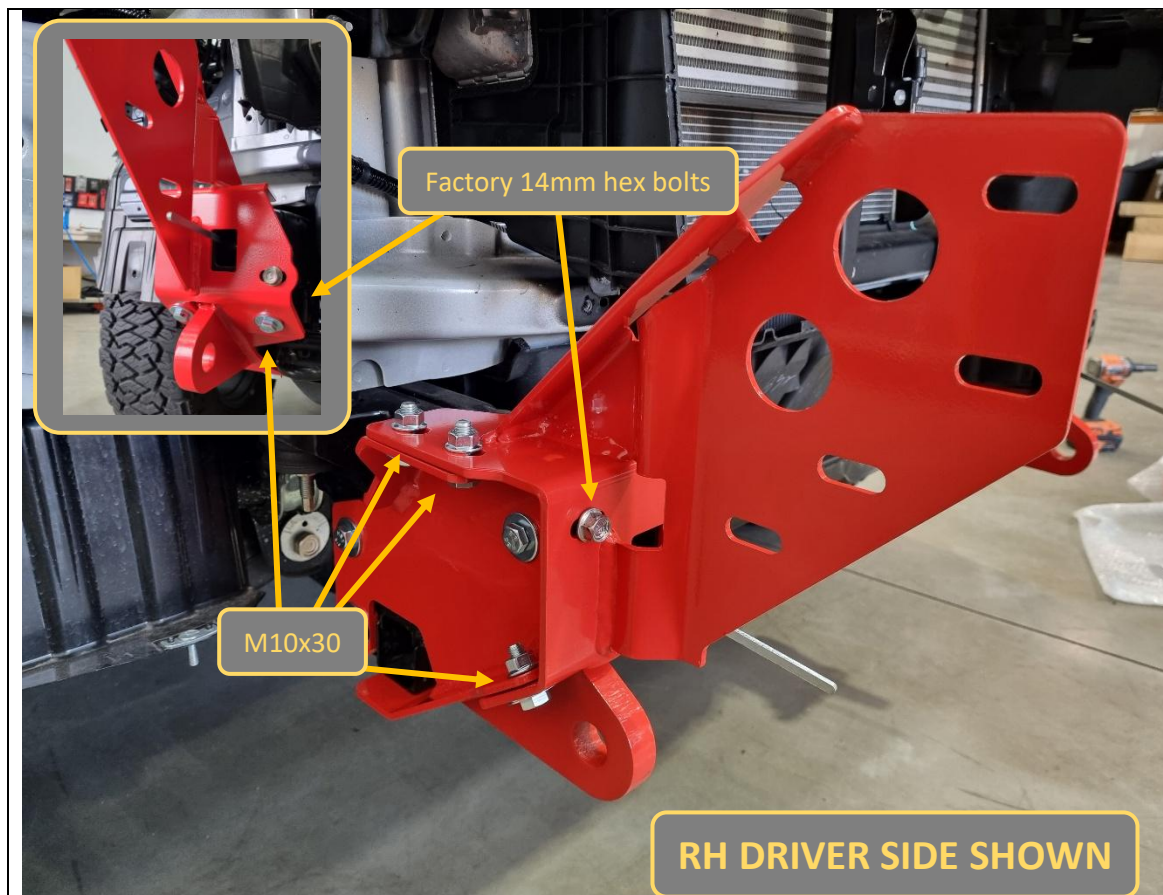
66. Repeat for other tow point.

#### TOOLS REQUIRED

#### FASTENERS

4x M10x30 hex bolt  
4x M10 heavy-duty washer  
4x M12x30 hex bolt  
4x M12 heavy-duty washer  
2x M12 flange nut  
2x M10 lollipop nutplate  
2x dual nutplate





67. Fit the impact assembly to the chassis and loosely secure using 2x factory 14mm hex bolts retained from the crash beam.

68. Secure the impact assembly to the tow point using 4x M10x30 hex bolts, heavy-duty washers and flange nuts as shown.

Repeat for both sides of vehicle. Leave all bolts in the tow points and impact assemblies finger tight at this stage.

#### TOOLS REQUIRED

#### FASTENERS

4x factory 14mm hex bolt  
8x M10x30 hex bolt  
8x M10 heavy-duty washer  
8x M10 flange nut



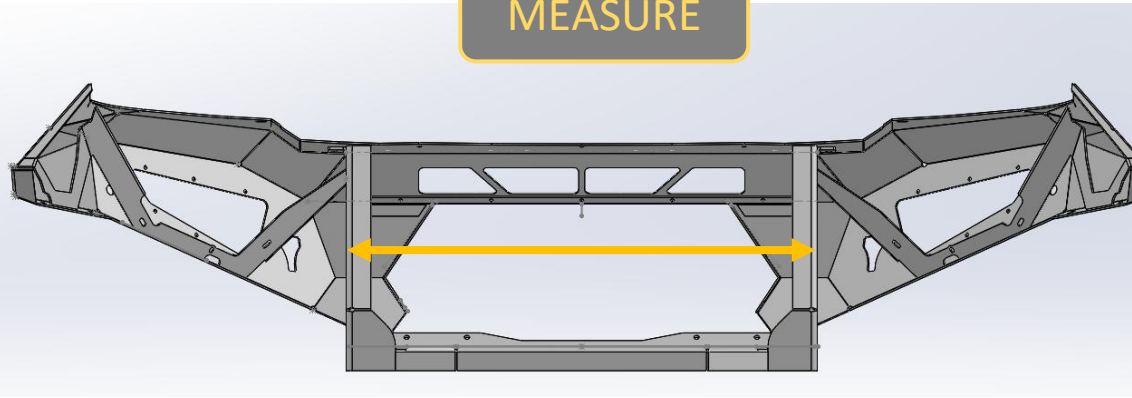

69. Re fit the upper grille section to the vehicle, re using the factory clips and screw.

**TOOLS REQUIRED**

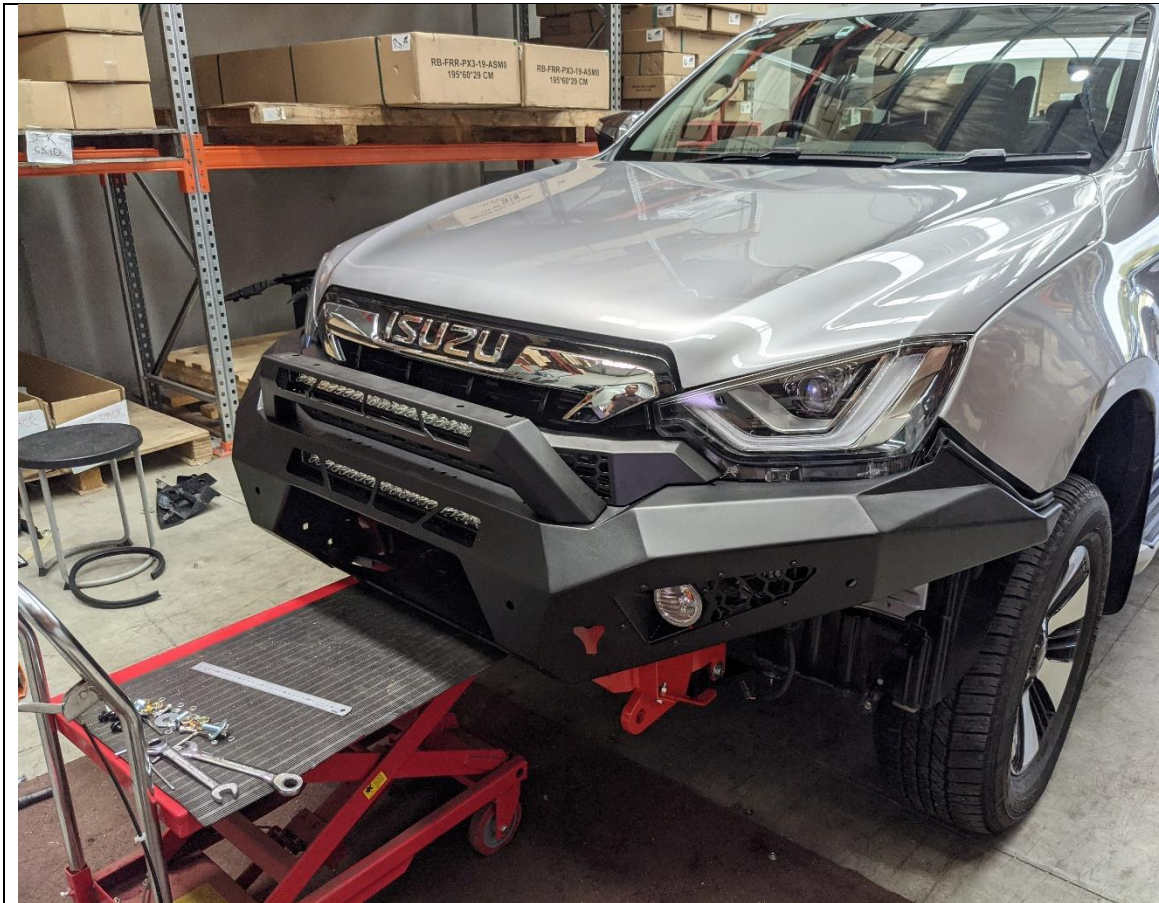
Phillips Screwdriver

**FASTENERS**

Re Use Factory

<div data-bbox="715 237 1007 331" data-label="Section-Header"> <h2>MEASURE</h2> </div> 	
<div data-bbox="491 696 1182 1066" data-label="Image">  </div>	
<p>70. Measure distance between bullbar uprights with tape measure. Note down this distance</p> <p>Bar Upright Width = _____mm</p>	<div data-bbox="1074 1122 1292 1151" data-label="Section-Header"> <h3>TOOLS REQUIRED</h3> </div> <p>Tape measure</p> <p>14mm socket/spanner 16mm socket/spanner 19mm socket/spanner</p>
<p>71. Measure and adjust the distance between the mounts on the vehicle to be 2-5mm greater than the distance measured.</p> <p>72. Tighten all bolts securing impact assembly and tow point, and re check distance. Re adjust as required to achieve correct distance.</p>	<div data-bbox="1114 1424 1254 1453" data-label="Section-Header"> <h3>FASTENERS</h3> </div>





73. With assistance, either from another person or a lifting trolley, lift the bar onto the mounts on the vehicle.

**TOOLS REQUIRED**

Lift Trolley

**FASTENERS**



74. Secure bar to mount with 4x M12x30 Bolts, heavy duty washers and 3x M12 Nyloc and 1x M12 flange nut per side. Finger tight at this stage.

75. 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. When happy, tighten the bolts with the flange nut to lock the bar in position.

Acceptable range of clearances shown in image above. **Ensure clearances are maintained all the way through below the headlight.**

76. 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  
19&18mm Socket and Spanner

#### FASTENERS

8x M12x30 Bolt  
14x M12 Heavy Duty Large Washer  
6x M12 Nyloc Nut  
2x M12 flange nut





77. If fitting a winch, do so now.

78. The bar is designed to fit most low mount winches, in foot down configuration. WARN ZEON 10 is largest winch confirmed to fit.


79. The control box can be mounted on top of the winch. Winches usually come with a bracket to allow this. Refer to winch manufacturer.

**TOOLS REQUIRED**

Refer to winch Instructions

**FASTENERS**

Refer to Winch instruction.

		
<p>80. Prepare the center mesh panel for fitment.</p> <p>81. If required, fit winch fairlead to Mesh Fairlead Mount (M-0014). Use M10 or 3/8" fasteners supplied with winch. The bar is only compatible with Hawse type fairleads.</p> <p>82. Fit number plate flip kit to fairlead mount, using fasteners supplied in kit.</p>	<b>TOOLS REQUIRED</b>	Depends on winch supplied fasteners
	<b>FASTENERS</b>	





83. Fit the Mesh Fairlead Mount (M-0014) to the center of the bar, using M8x16 black button head bolts (top), M8x20 black button head bolts (Bottom) and black washers.

84. Tighten fasteners using 5mm Allen Wrench.

**TOOLS REQUIRED**

5mm Allen Wrench

**FASTENERS**

2x M8x16 Button Head  
2x M8x20 Button Head  
4x M8 Flat Washer





85. Fit Mesh Infill Panels (M-0008L/R). Secure with M8x16 button head bolt and M8 flat washer into the threaded insert in bar for top mount. The flange of the infill panel should sit on the inside of the bar.

86. Don't fit any bolts to bottom holes at this stage.

87. Tighten top fasteners using 5mm Allen Wrench.

**TOOLS REQUIRED**

5mm Allen Wrench

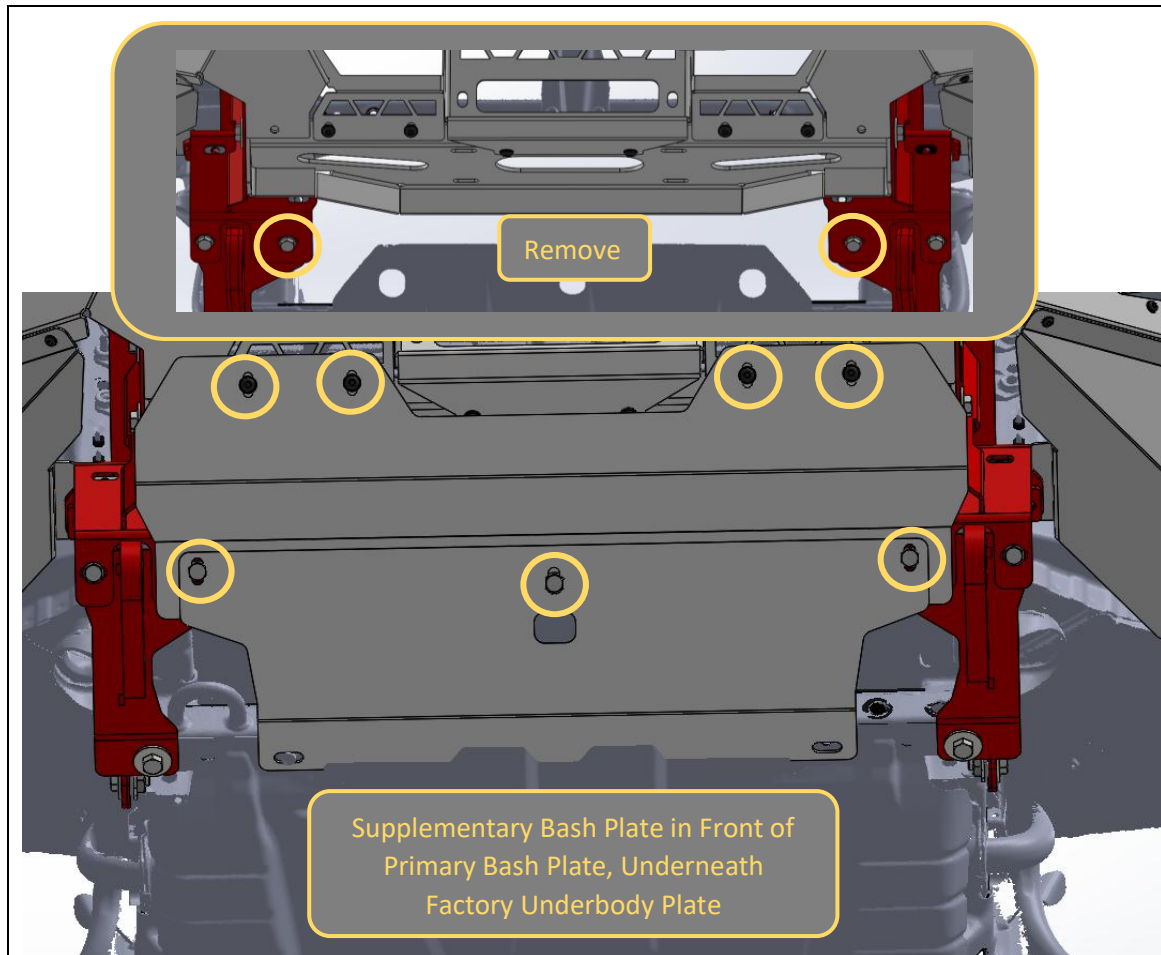
**FASTENERS**

2x M8x16 Button Head  
2x M8 Flat Washer



88. Re-connect fog light and parking sensor (if equipped) wiring connectors.

**TOOLS REQUIRED****FASTENERS**



89. Before fitting bash plates, remove the M10x30 Bolts on the inside of the tow point / impact assembly joint.

90. Fit the front of the Center Bash Plate using M8x20 button heads and flat washers into the threaded inserts in the bar. Ensure these fasteners pass through the side mesh panels.

91. Secure the Supplementary and back of Center Bash Plate using M10x30 hex head, flat washers and M10 flange nut removed in previous step, through the tow point / impact assembly parts.

92. Secure bottom of Supplementary bash plate to the factory bolt points, using factory fasteners. Refit the factory underbody on top of the supplementary bash plate.

93. Tighten All Bottom fasteners using 16/17mm spanner & socket

94. Tighten front fasteners using 5mm Allen Wrench.

#### TOOLS REQUIRED

14mm spanner  
16/17mm Spanner  
16/17mm Socket  
5mm Allen Key

#### FASTENERS

4x M8x20 Button Head  
4x M8 Flat Washer

3x M10x30 hex bolt  
3x M10 flat washer  
3x M10 flange nut

2x Factory bolt





95. Remove the outside top bolts from impact assembly/tow point.

96. Fit the side under panels by first sitting the bottom mount on top of the impact assembly, then inserting the 5x M6x16 bolts into the cage nuts fitted earlier.

97. Tighten with 4mm Allen wrench

98. Secure bottom of side under panel to mount using bolt removed from joint earlier.

99. Tighten with 16/17mm spanner / socket.

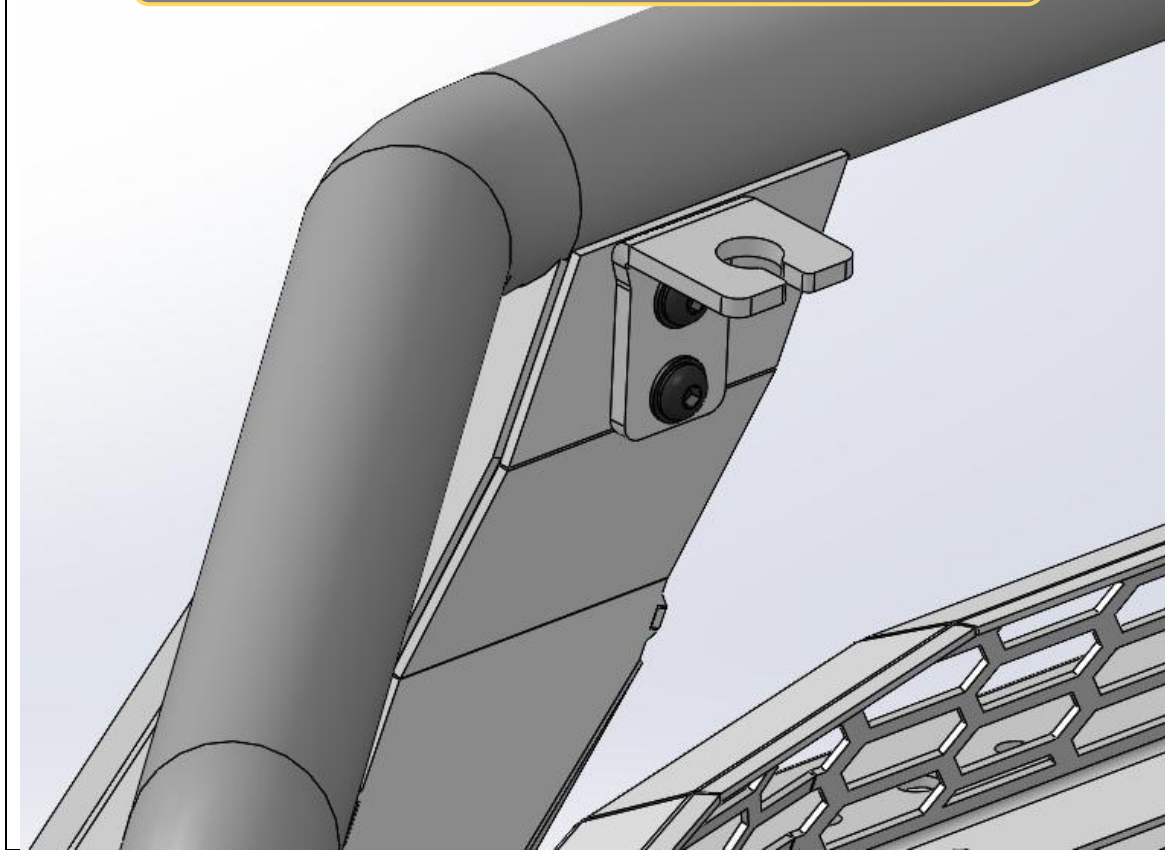
**TOOLS REQUIRED**

16/17mm Spanner  
4mm Allen Wrench

**FASTENERS**

10x M6x16 Button Head  
10x M6 Flat Washer



**TORO BARS ONLY**

100. **Toro only.** If fitting antennas to a Toro bar, Fit the antenna brackets to the back side of the uprights using supplied M8x20 Button head bolts, Washers into the weld nuts in the bar uprights

101. **Toro only.** Else fit the 2x M8x20 black button head bolts and black washers to the back of each bullbar upright, to protect nut threads in bar for future use.

**TOOLS REQUIRED**

5mm Hex Key

**FASTENERS**

2x M8x20 Black Button  
Head  
2xM8 Flat Washer

Per Side



102. Using a sharp utility knife, cut back the plastic inner wheel arch liner to match the profile of the under panel.
103. Tuck the wheel arch liner behind the flanges on the under panel.
104. Repeat for both sides of vehicle.

**TOOLS REQUIRED**

Utility Knife

**FASTENERS**



105. **Optional.** Drill a hole through the inner wheel arch liner and use a cable tie to secure it to the body, as shown. (You need to do this with the side underpanel off).

**TOOLS REQUIRED**

Electric drill  
Cable tie

**FASTENERS**





106. Re-check that all fasteners are tight.
107. Re-tit number plate to number plate flip.
108. Fit the compliance plate in a visible location on the underside of the bar. We recommend placing it on the bottom of the centre bash plate.
109. You're done. Hit the tracks and enjoy your newly protected D-MAX!

**TOOLS REQUIRED****FASTENERS**