

## **RAM 1500 TRX**

# **Predator 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.

#### Parts List

Qty	Part Number	Description	Image
1	FB-RTX-DT-21- PR-ASM1	RAM 1500 TRX Predator Bar Welded Assy	A Contraction of the contraction
1	FB-R15-DT-21- PR-ASM2R	RAM 1500 DT Predator Impact Assy RH	
1	FB-R15-DT-21- PR-ASM2L	RAM 1500 DT Predator Impact Assy LH	
1	FB-RTX-DT-21- PR-ASM2R	RAM 1500 TRX Tow Point Assy RH	
1	FB-RTX-DT-21- PR-ASM2L	RAM 1500 TRX Tow Point Assy LH	

1	B-0519R	Ram 1500 Halo Fog Light Bracket RH	
1	B-0519L	Ram 1500 Halo Fog Light Bracket LH	
1	B-0589	RAM1500 DT Winch Control Box Mount Bracket	0
1	B-1156R	RAM 1500 TRX Winch Strap RH	-
1	B-1156L	RAM 1500 TRX Winch Strap LH	
1	B-1211	RAM 1500 TRX Oil Cooler Relocation Bracket	
1	B-1212	RAM 1500 TRX Oil Cooler Air Guide	
1	B-1213R	RAM 1500 TRX Bash Plate Mount RH	
1	B-1213L	RAM 1500 TRX Bash Plate Mount LH	
1	B-1385	RAM 1500 TRX Pan Brace	

1	M-0002R	Light Cover Mesh	
1	M-0002L	Light Cover Mesh	CEBEBES
1	M-0016	RAM 1500 Predator Fairlead Mesh	
1	M-0017R	RAM 1500 Predator Side Mesh RH	
1	M-0017L	RAM 1500 Predator Side Mesh LH	
1	U-0077	RAM 1500 TRX Centre Bash Plate	
1	U-0078R	RAM 1500 TRX Side Underpanel RH	
1	U-0078L	RAM 1500 TRX Side Underpanel LH	
1	NPF-COM-SM- ASM0	Number Plate Flip ASM Small	

1	FB-R15-DT-21- PR-ADRCP	ADR Compliance Plate RAM1500 DT	COPRICING VARIANAL (1) SURVICE COUNT     MORENERCEUR VIC. 39(1) AUX     MORENERCEUR VIC. 39(1) AUX     MORENERCEUR VIC. 39(1) AUX     MORENERCEUR VIC. 39(1) AUX     MORENERCEUR VICE VIEW VIEW VIEW VIEW VIEW VIEW VIEW VIE
6	F-0030	Parking Sensor Holder - Universal, Flat	P-0330
1	TK-COM-PSEN-6	Tape Kit - 6 Sensor Universal	N/A
2	PW-P-14X9-180	Pinch Weld - Plain 14X9MM, Rubber, 180mm Length	N/A
1	OFA-LOGO	Offroad Animal Metal Logo	
1	FI Note	Fitting Instruction Note	N/A

### **PREDATOR Fasteners – Contained in Small Parts Kit Bag**

Qty	Part Number	Description	
8	M4X12 PAN	SCREW, PAN HEAD PHILLIPS, M4X12X0.7 GR4.6 ZP	
8	M4 FLAT WASHER	Flat Washer M4, 8mmODx0.8mm T	
8	M4 FLANGE NUT	Flange Nut, M4	
29	M6x16 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M6X16X1 GR12.9,	
		ISO4042 ZnNi BLACK PASSIVATED FINISH	
29	M6 FLAT WASHER	M6 Flat Washer, 12x6.1x1, ISO4042 ZnNi BLACK	
	BLACK ZINC	PASSIVATED FINISH	
19	M6 FLANGE NUT	Flange Nut, M6x1 G8.8 ZP	
10	M6CN3MM	CAGE NUT M6x2.6-3.5	
10	M8 X 20 HEX	Bolt Hex, M8X20x1.25, GR8.8 ZP	
2	M8 X 35 HEX	Bolt Hex, M8X35X1.25, GR8.8 ZP	
6	M8 X 16 BHCS BZP	SCREW, BUTTON HEAD CAP, M8X16X1.25 GR12.9,	
6		ISO4042 ZnNi BLACK PASSIVATED FINISH	
6	M8 X 30 BHCS BLACK	SCREW, BUTTON HEAD CAP, M8X30X1.25, ISO4042	
6	ZINC ZnNi BLACK PASSIVATED FINISH		
6	M8 FLAT WASHER	M8 FLAT WASHER	
6	M8 HD FLAT WASHER	M8 FLAT WASHER - High Tensile 19x8x1.9mm	
12	M8 FLAT WASHER-	M8 FLAT WASHER, 16.5x8.4x1.2, ISO4042 ZnNi BLACK	
12	BLACK ZINC	PASSIVATED FINISH	
10	M8 FLANGE NUT	Flange Nut, M8x1.25 G8.8 ZP	
12	M10 x 25	Bolt Hex, M10X25x[1.5], GR8.8 ZP	
12	M10 Flat Washer	M10 Flat Washer	
2	M10 FW LHD	WASHER, FLAT M10X28.5X2.5	
14	M10 FLANGE NUT	Flange Nut, M10x1.5 G8.8 ZP	
14	M12X30	Bolt Hex, M12X30x1.75, GR8.8 ZP	
16	M12 FW LHD	M12 FW Large Heavy Duty	
12	M12 FLANGE NUT	Flange Nut, M12x1.75 G8.8 ZP	
2	M12 Nyloc nut	M12 NYLOC NUT	

# **TOOLS REQUIRED**

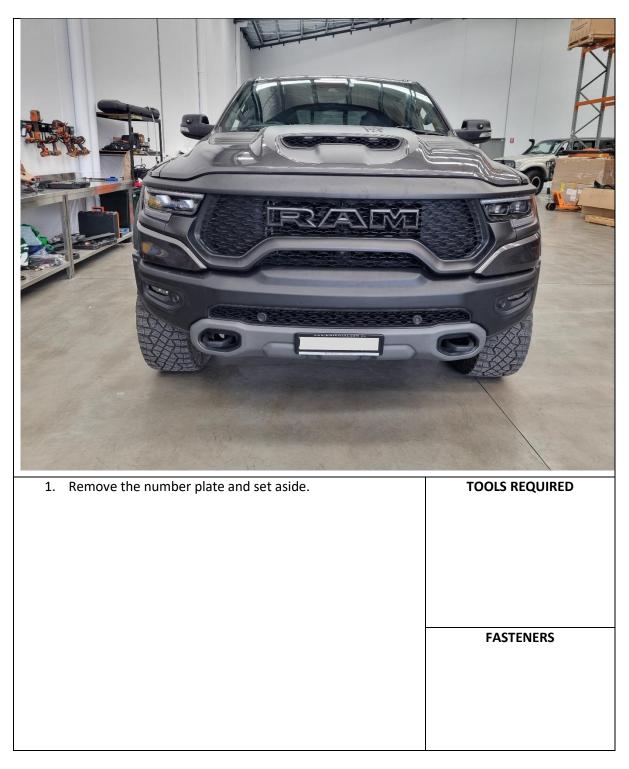
The following tools will be required to install the product.

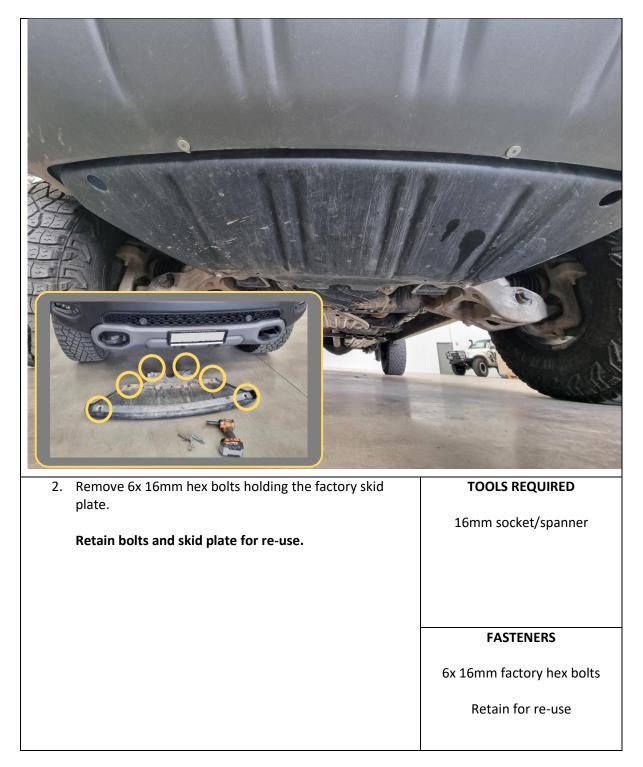
Hand Tools	Power Tools	Workshop Equipment
Metric socket set 8-19mm	Electric/Air Impact	Isopropyl Alcohol
Socket extension bar	Driver (Optional) Air hacksaw	Rag
Metric spanner set 8-19mm		Cable Ties
Hex (Allen) key set 4-6mm		Respirator mask with P2 particulate filter
Torx key set		
		Sandpaper
Trim removal tool		Automotive adhesive
Plastic auto trim tool set		sealant (eg. Sikaflex)
Flat blade screwdriver set		Lifting Trolley (Optional)
Phillips head screwdriver set		
Utility knife		
Side cutters		
Pliers		
M8x1.25 metric tap (optional)		

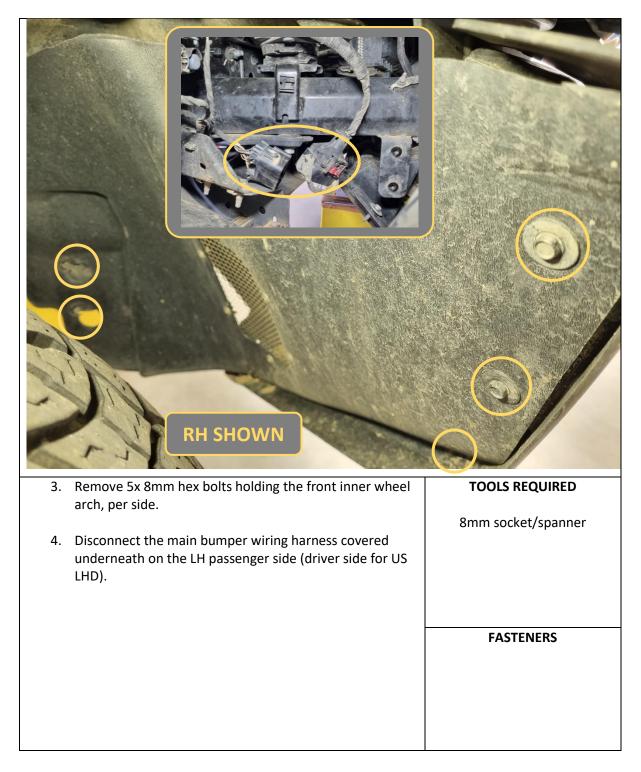
# WORKSHOP SAFTEY

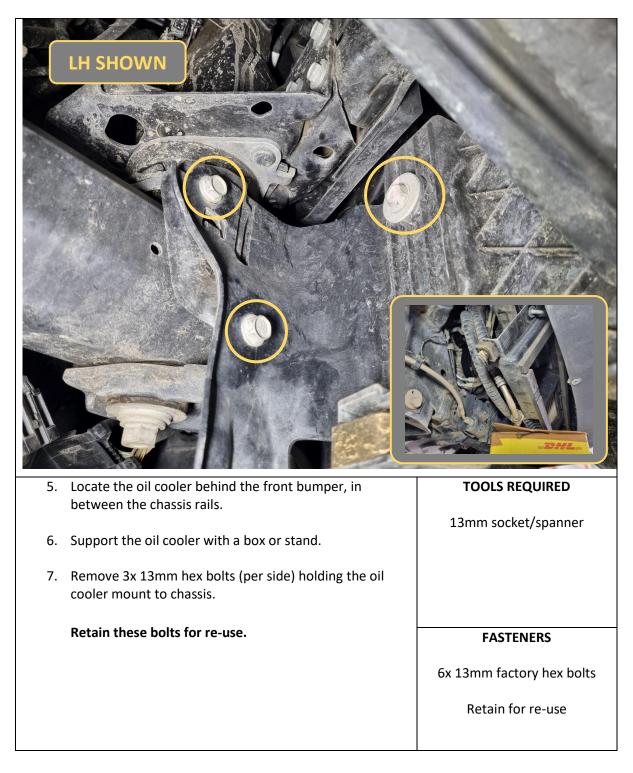
It is the responsibility of the installer to always complete works in a safe manner. Make sure the following safety equipment is available and precautions are observed whilst fitting this product.

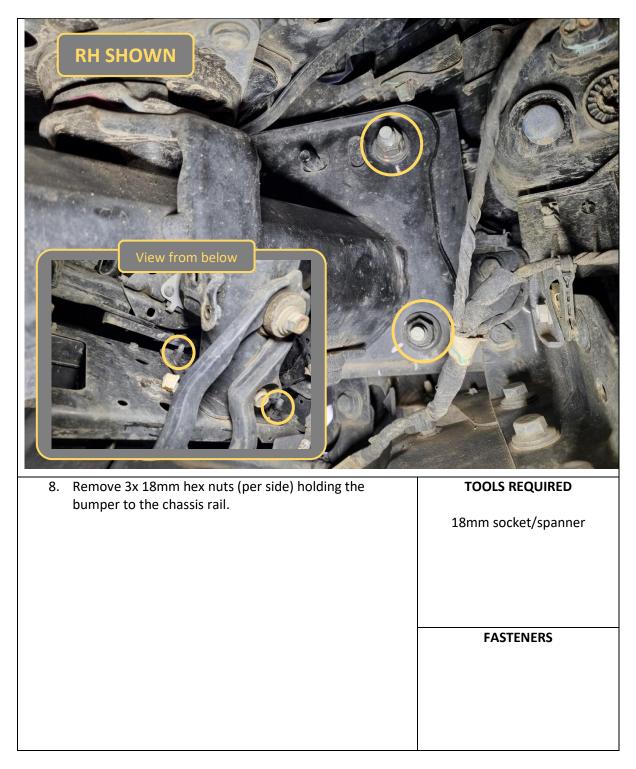
Hearing Protection	Always wear ear protection when using power tools.
Eye Protection	Ensure eye protection is always worn when cutting or drilling.
Manual Handling	Do not attempt to lift bar assemblies or rock sliders on your own. Always use two people to lift or use mechanical Lifting aid such as hydraulic 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.

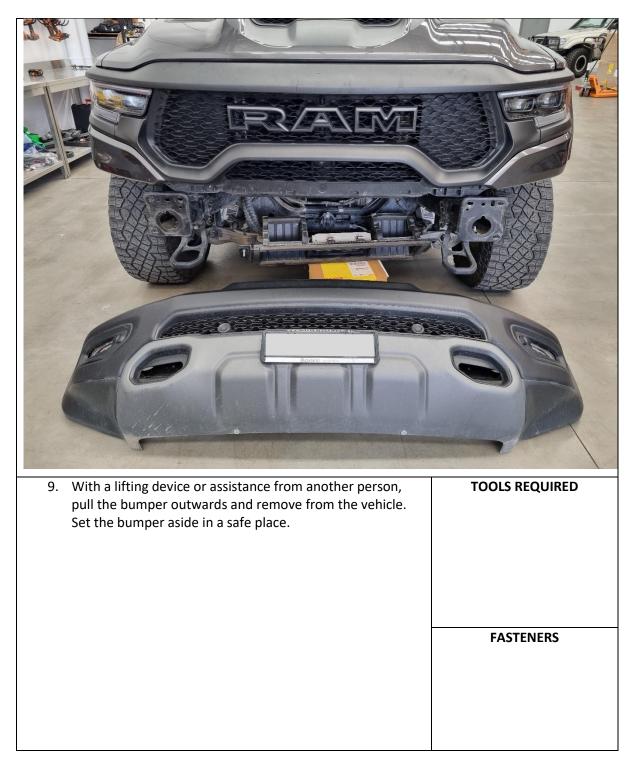


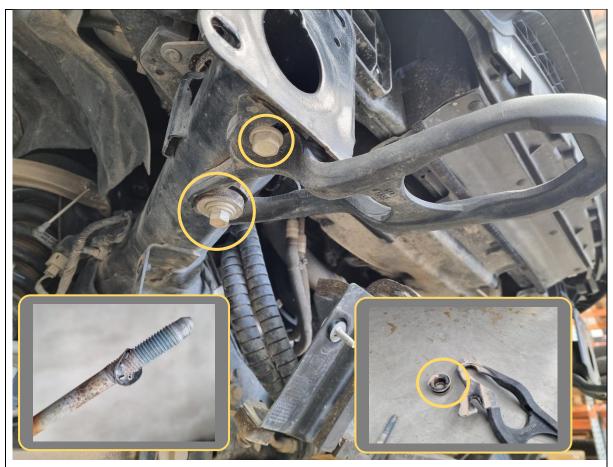












 Remove 1x 18mm hex bolt (rear) and 1x 21mm hex bolt (front) holding each tow hook to the underside of the chassis. Retain both bolts.

Note: The 18mm hex bolt has a keeper/retention washer into the body mount that may be lodged in sideways (see bottom left inset). In some cases, you may need to hammer the bolt out. It is ok to discard the keeper washer.

11. Remove the rubber bush from each tow hook and set aside for re-use. The tow hooks may be discarded.

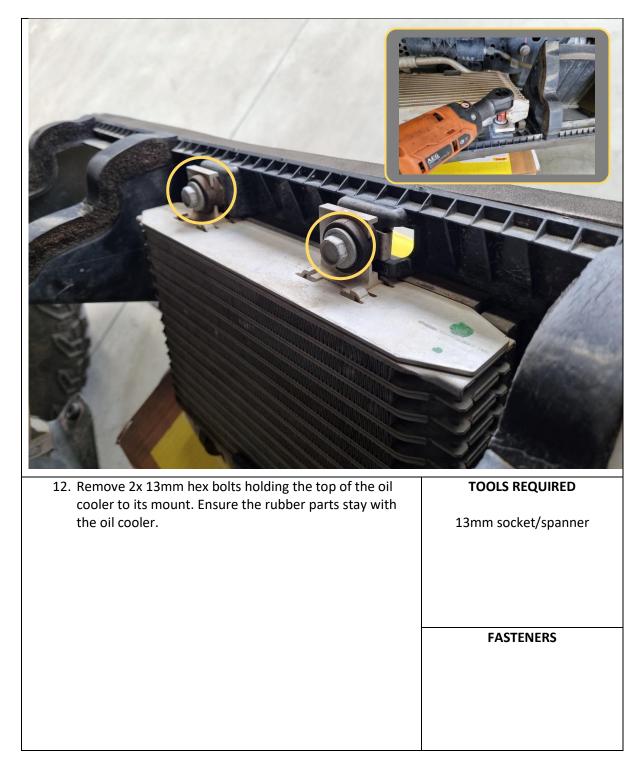
#### **TOOLS REQUIRED**

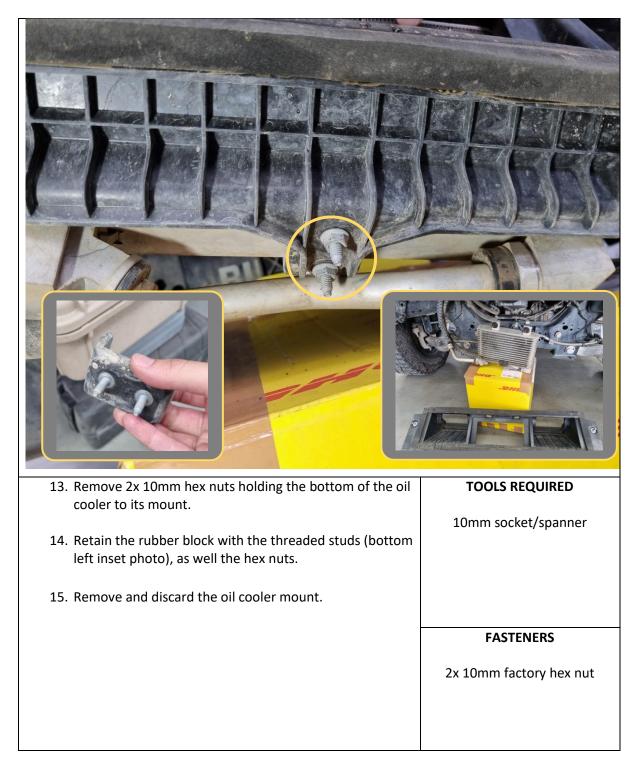
18mm socket/spanner 21mm socket/spanner

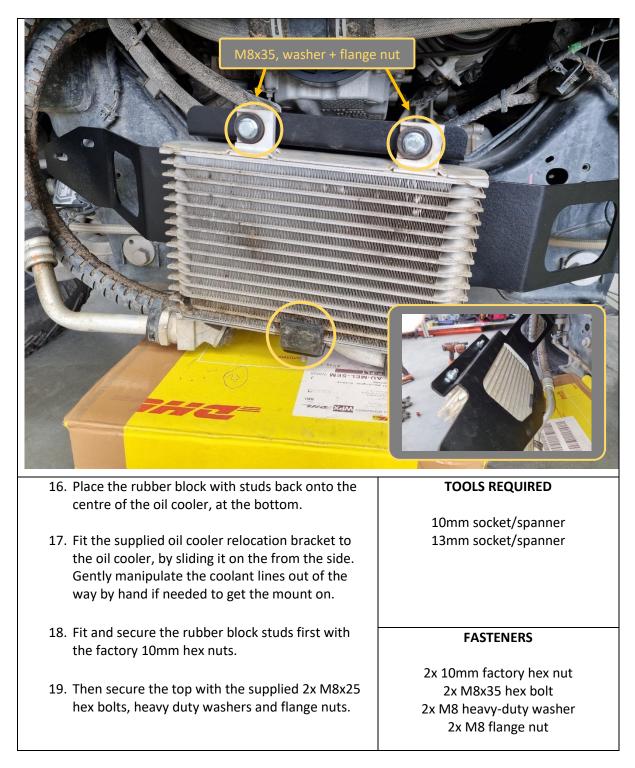
#### FASTENERS

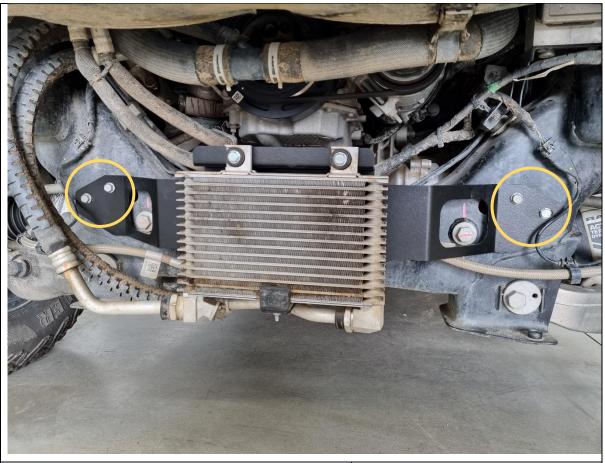
2x 18mm factory hex bolt 2x 21mm factory hex bolt 2x factory rubber bush

Retain for re-use









20. Re-use 4x of the 13mm hex bolts from Step 7 and fit the oil cooler and bracket to the embedded nuts in the chassis cross member, as shown.

Ensure electrical cables are not pinched in between the bracket and chassis.

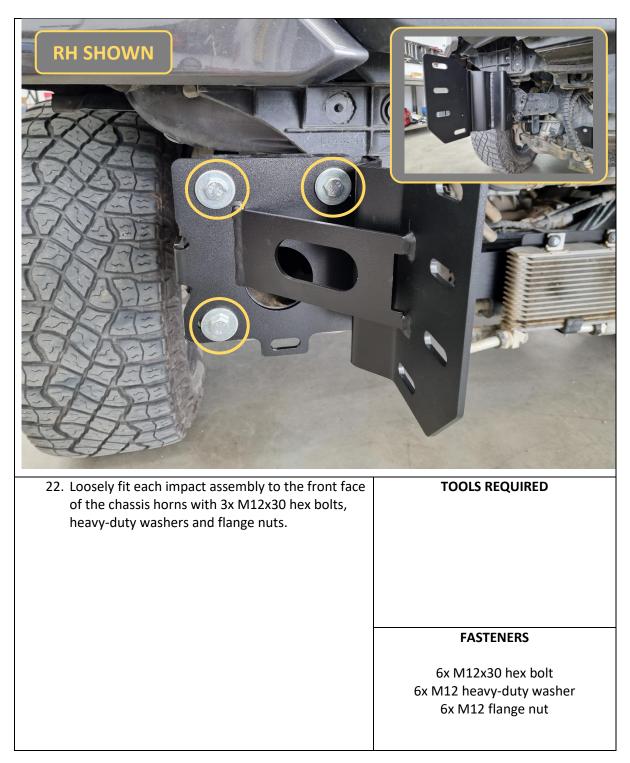
21. If required, the threads of the nuts in the chassis may need to be cleaned with a M8x1.25 metric tap.

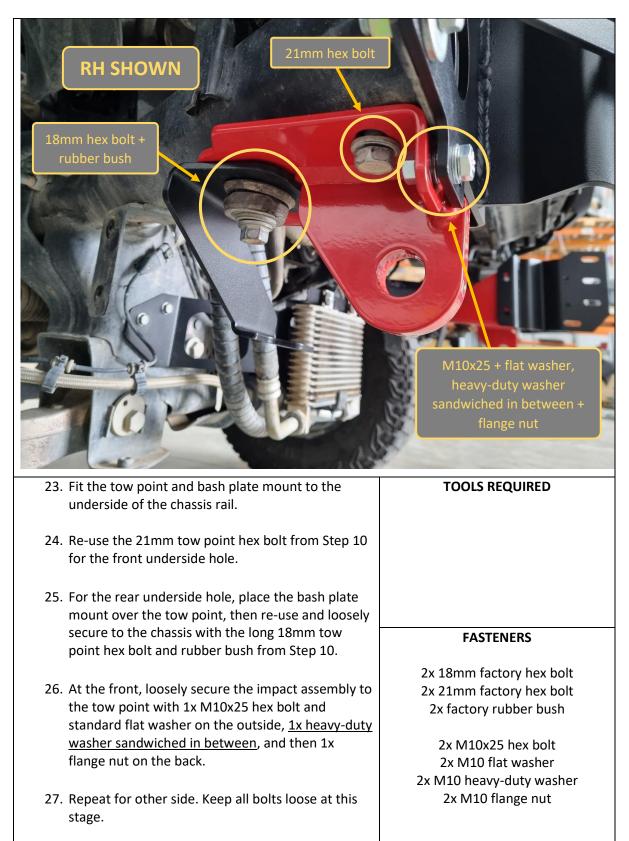
#### **TOOLS REQUIRED**

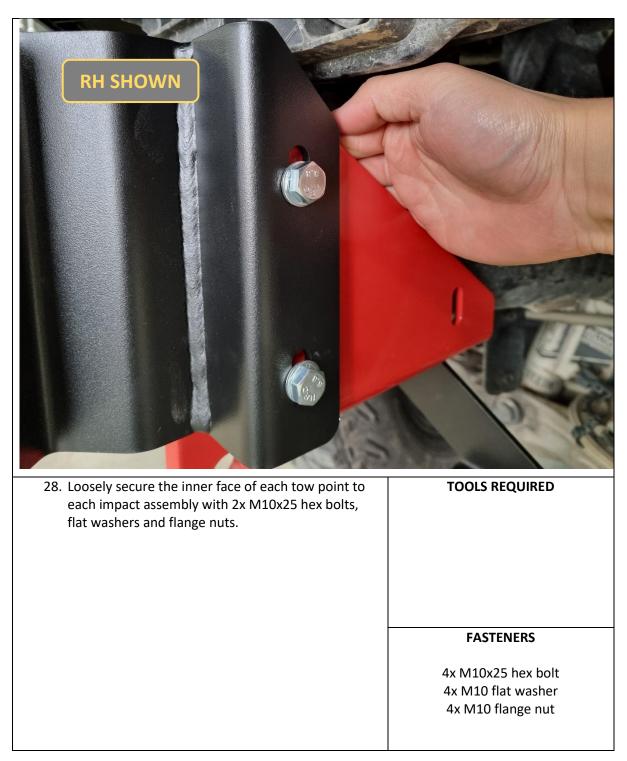
13mm socket/spanner M8x1.25 metric tap (optional)

#### FASTENERS

4x 13mm factory hex bolts (retained from Step 7)









29. Measure the distance between the outside faces of uprights on bar using tape measure. Write distance below for reference if required.

Bar Upright Width = \_\_\_\_\_mm

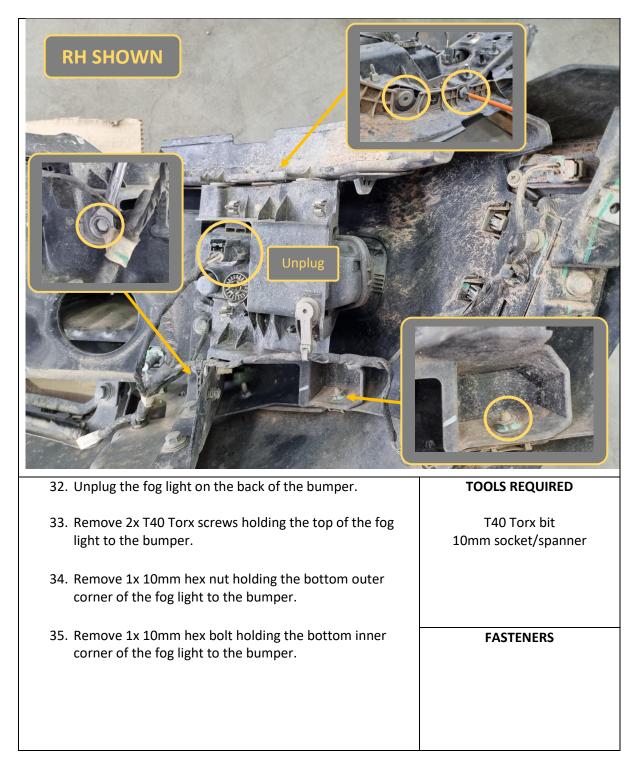
- 30. Adjust mounts by sliding left/right on the slots, such that distance between inner faces of mounts are approximately 2mm more than bar. Ensure the mount faces are vertically upright and symmetric left/right on the chassis.
- 31. Secure and tighten mounts and tow points. Check and confirm distances are correct after tightening.

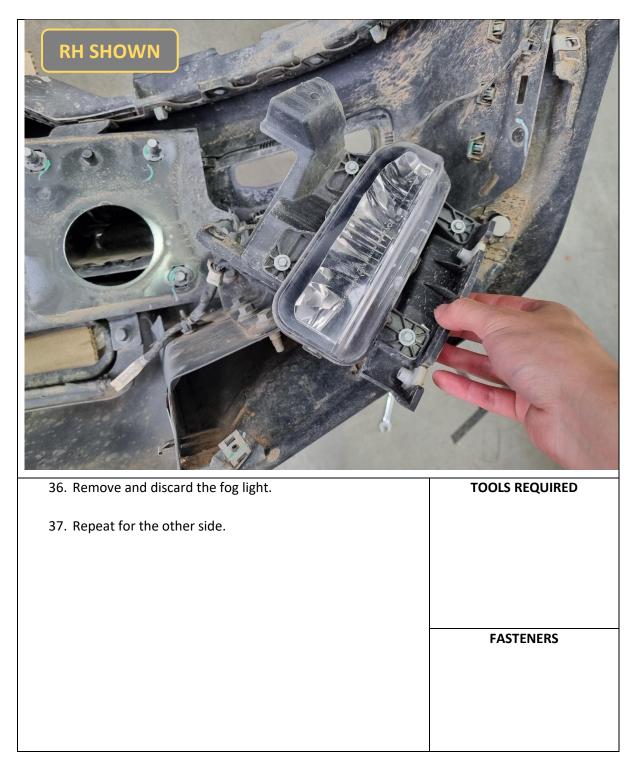
#### **TOOLS REQUIRED**

Tape measure

16mm socket/spanner 17mm socket/spanner 18mm socket/spanner 19mm socket/spanner 21mm socket/spanner

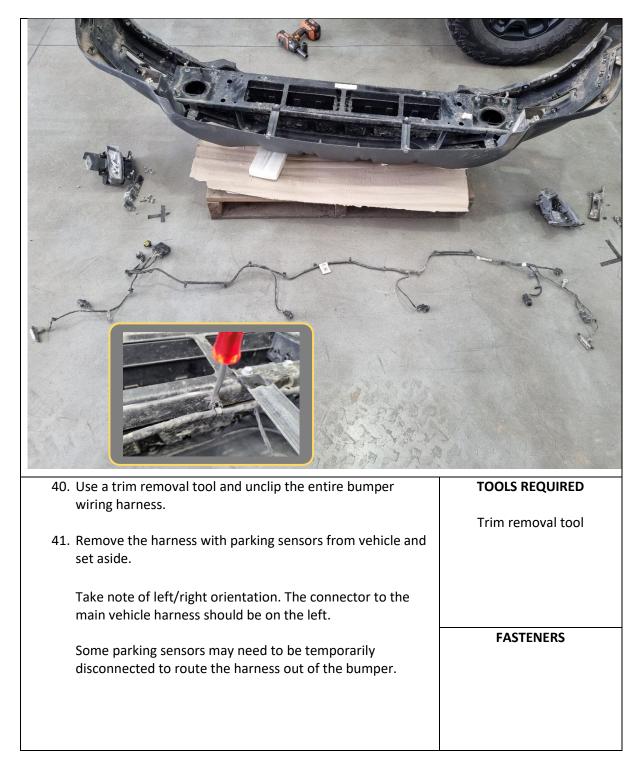
#### FASTENERS

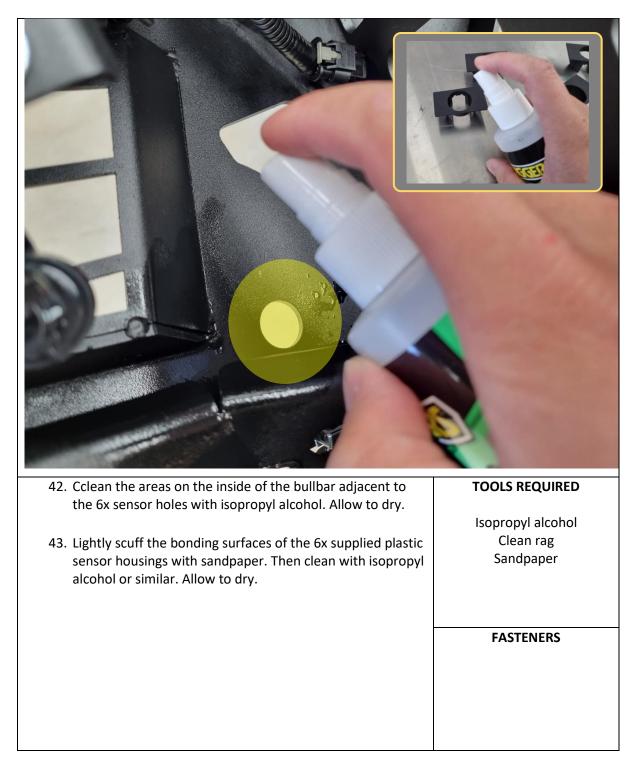


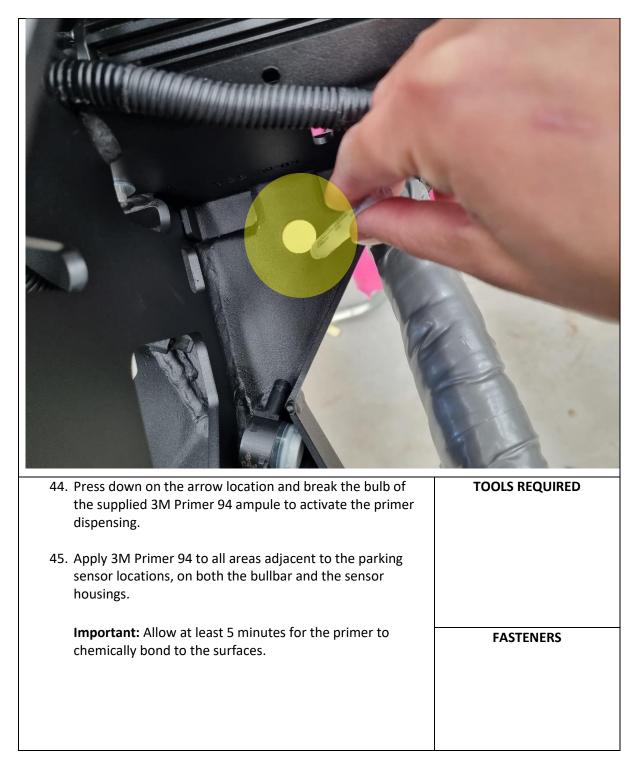


38. Unplug the side marker lamps located on the outer ends of the bumper. These lamps will not be relocated into the bullbar.	TOOLS REQUIRED
	FASTENERS

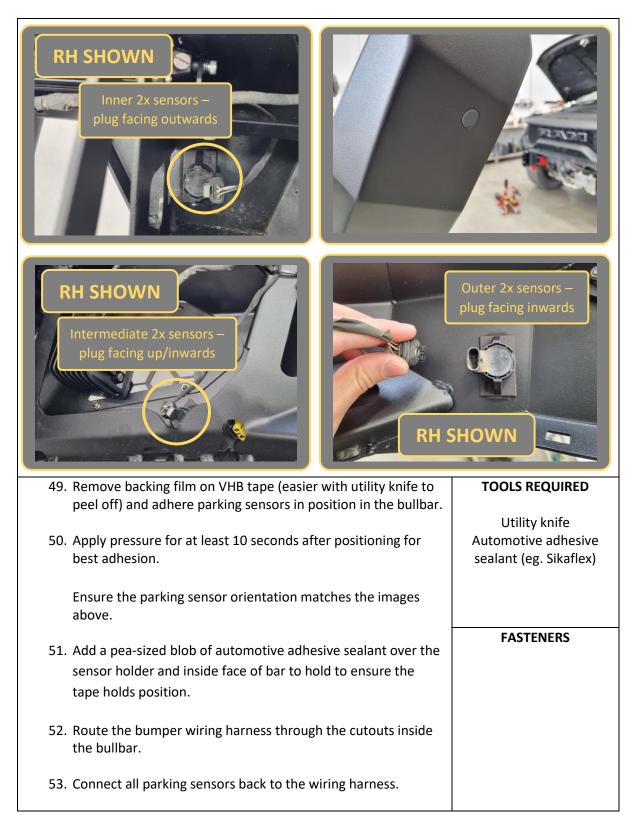
<ul> <li>39. Locate the 6x parking sensors on the bumper, and unclip them from its plastic housing by spreading the housing plastic tabs apart.</li> <li>2x of the sensors are hidden behind metal bumper brackets (see inset photo), but can still be reached by hand without disassembly.</li> </ul> FASTENERS	<image/>	
brackets (see inset photo), but can still be reached by hand without disassembly.	them from its plastic housing by spreading the housing	TOOLS REQUIRED
FASTENERS	brackets (see inset photo), but can still be reached by	
		FASTENERS

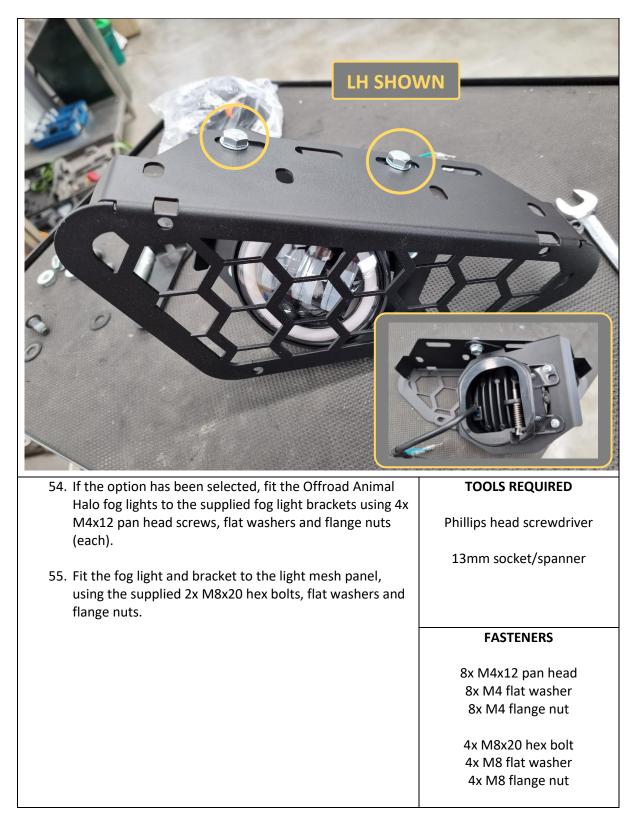


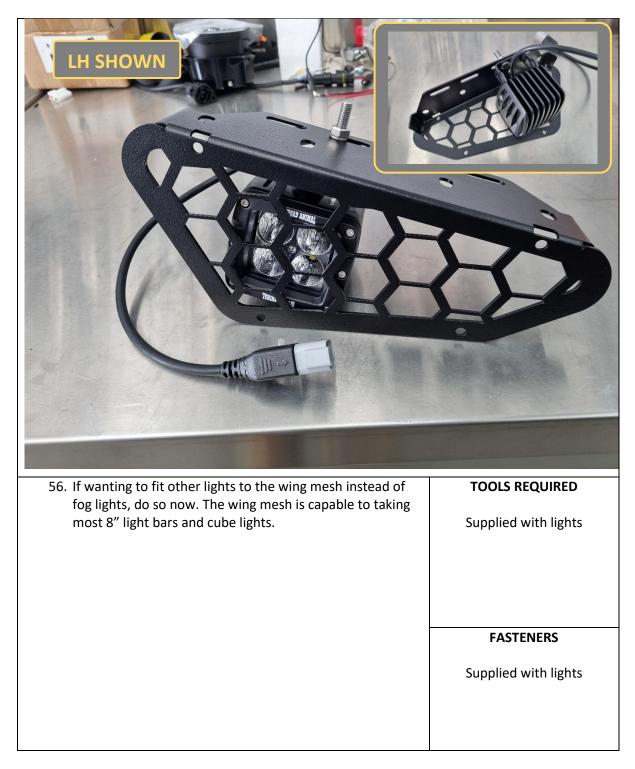


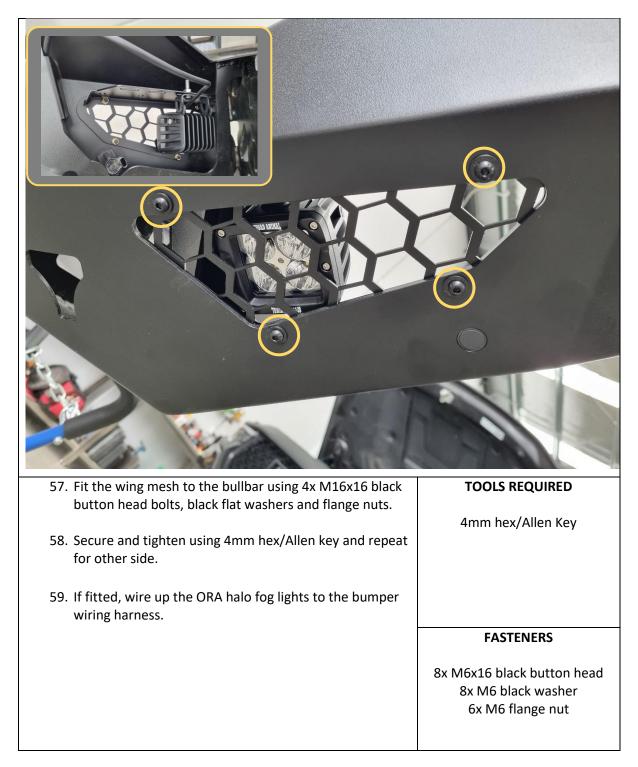




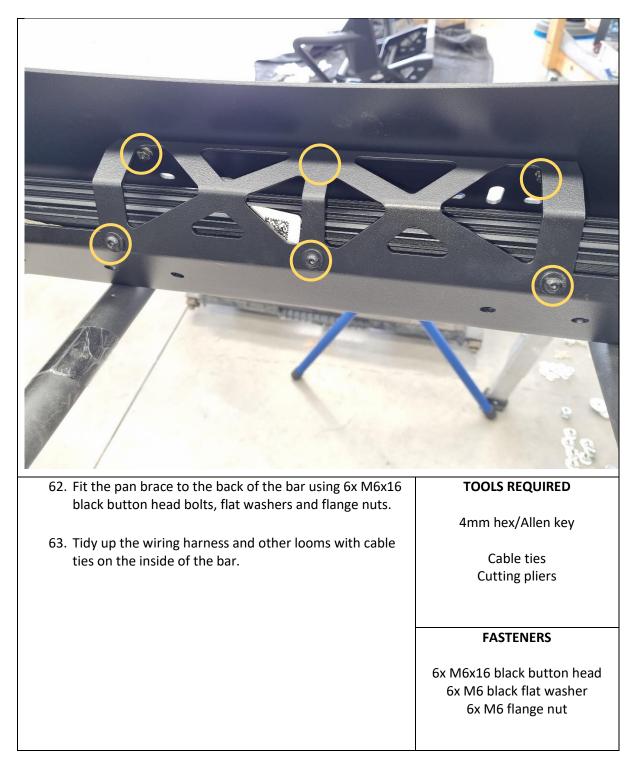


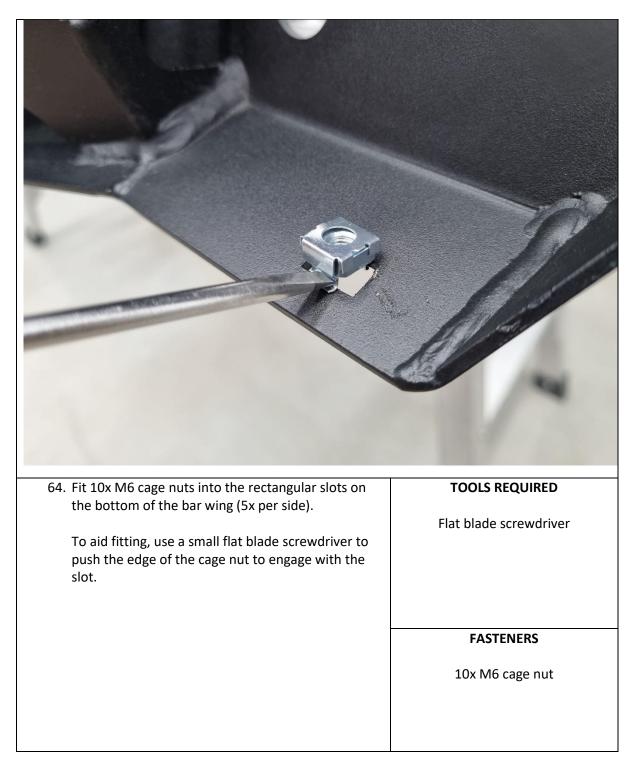


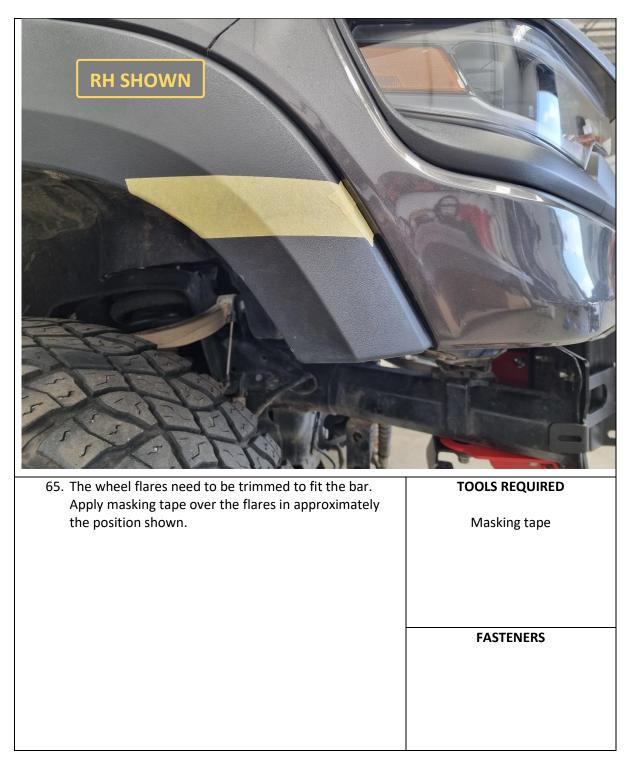


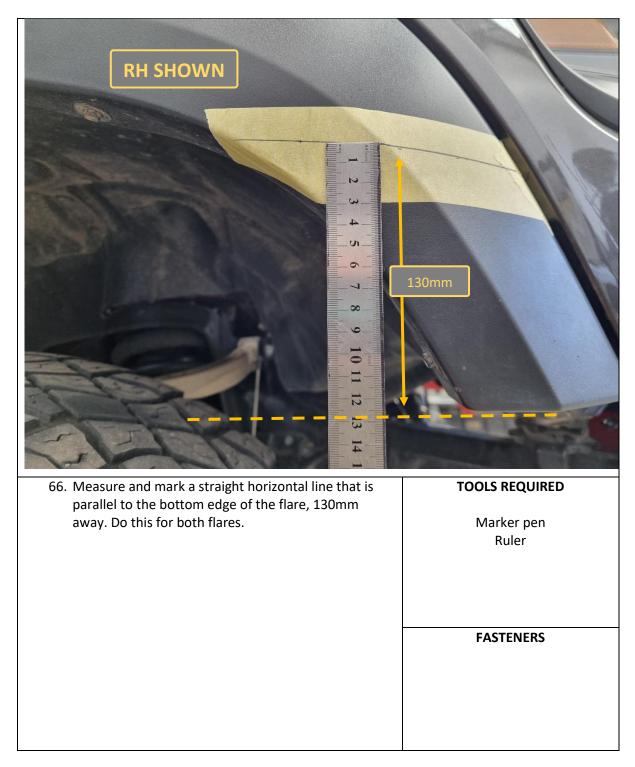


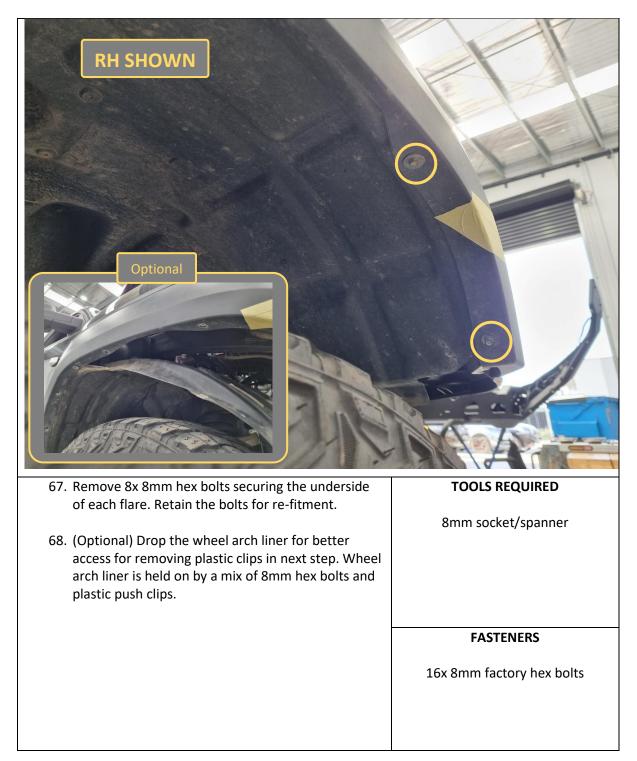


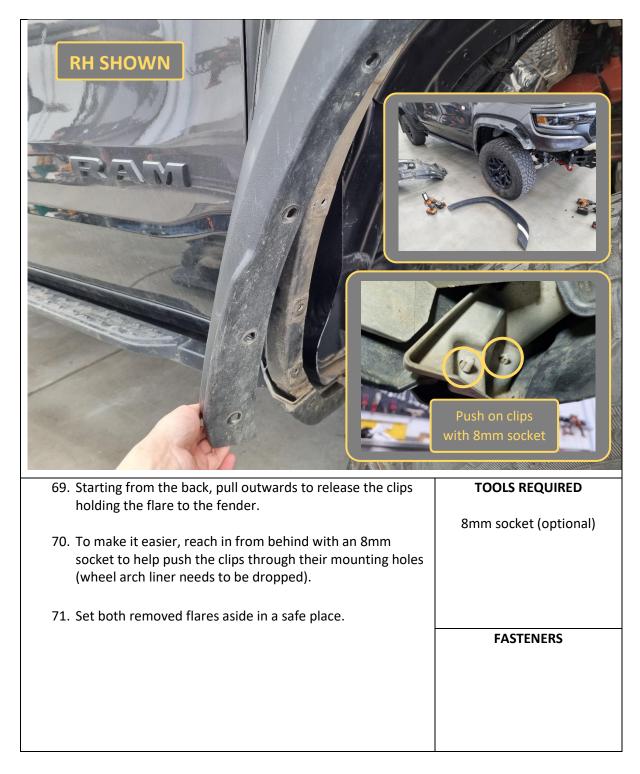


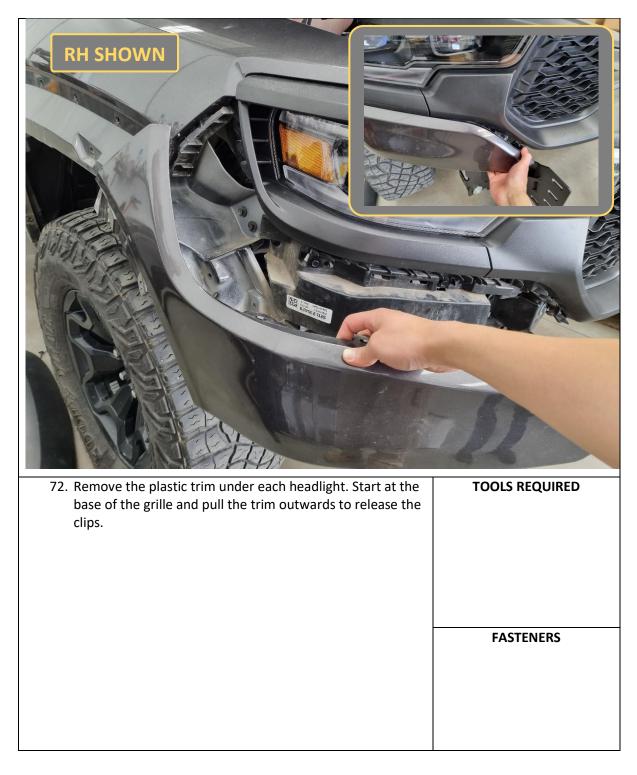


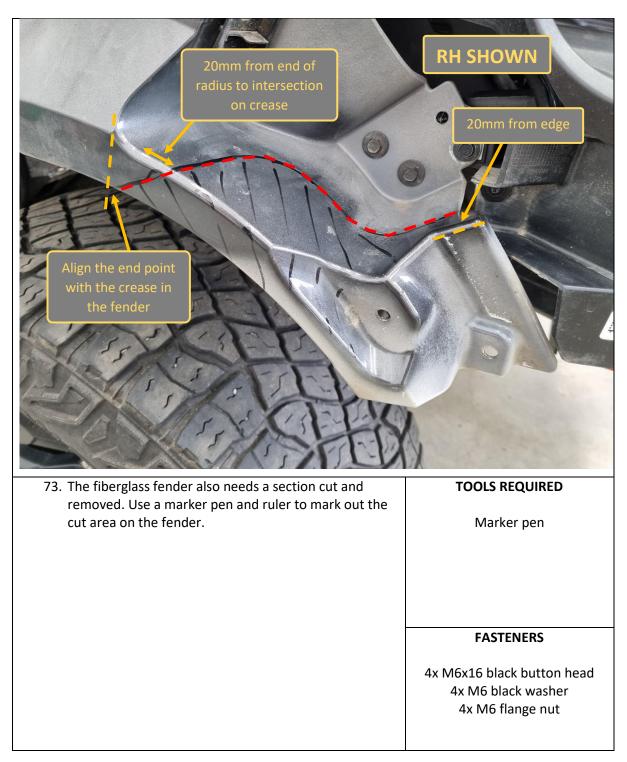




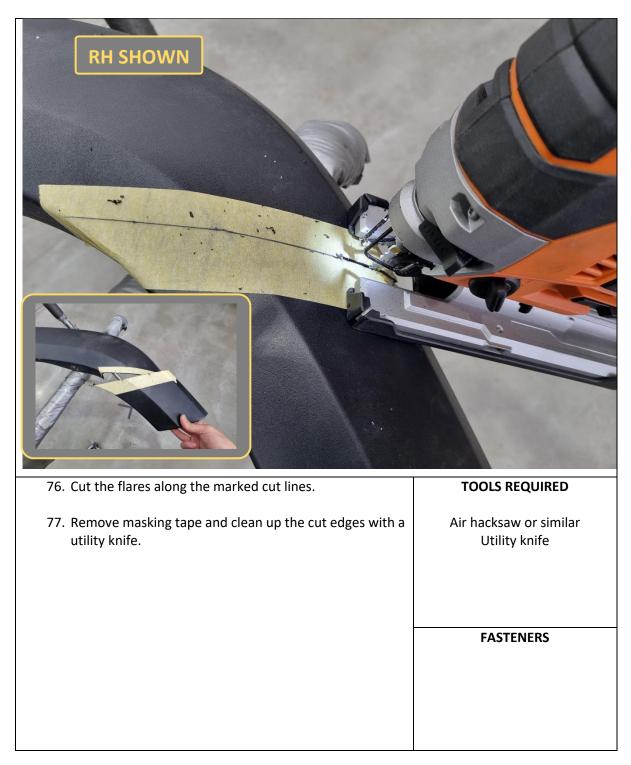


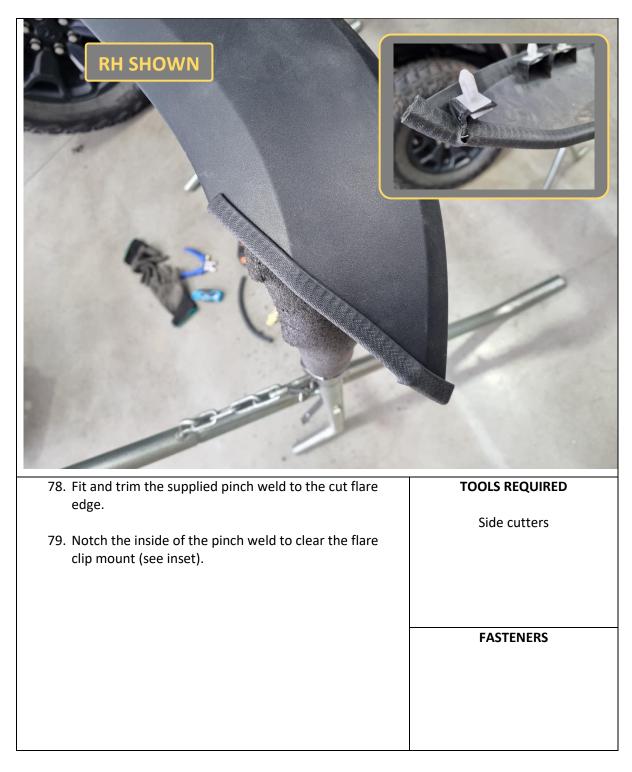


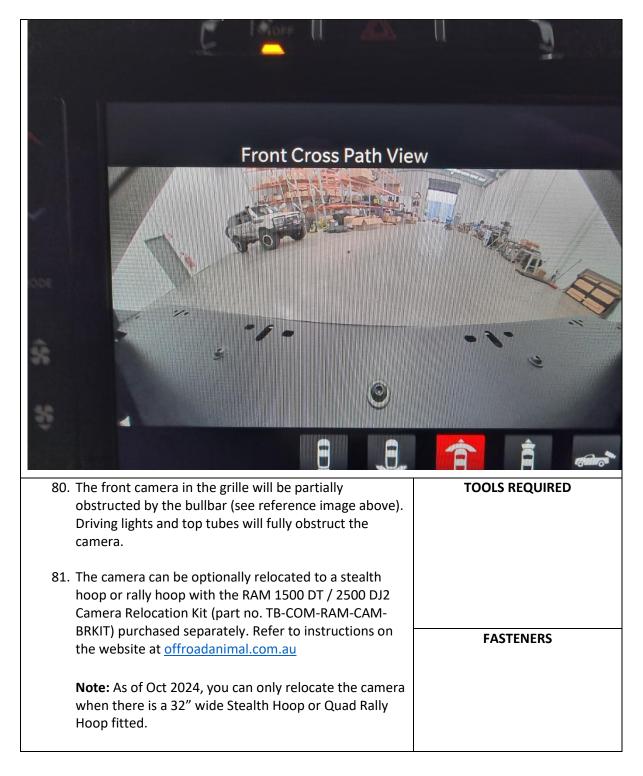


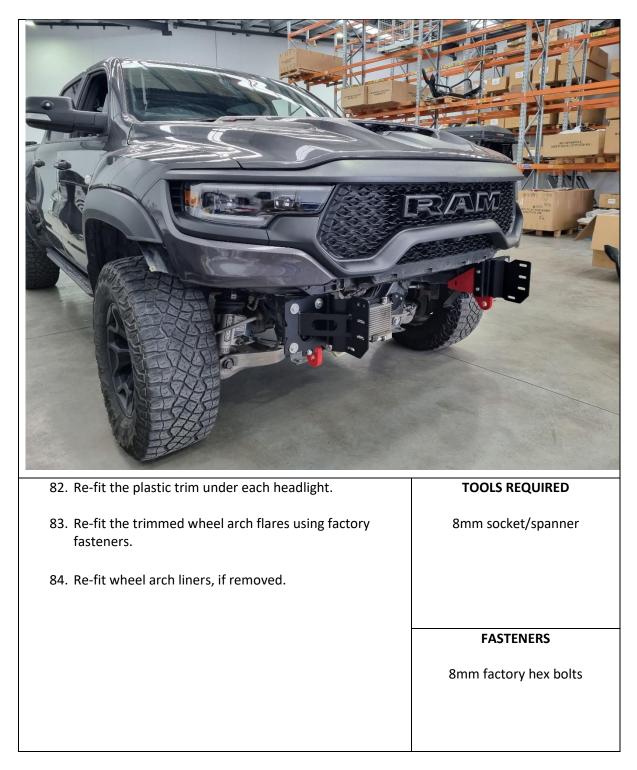


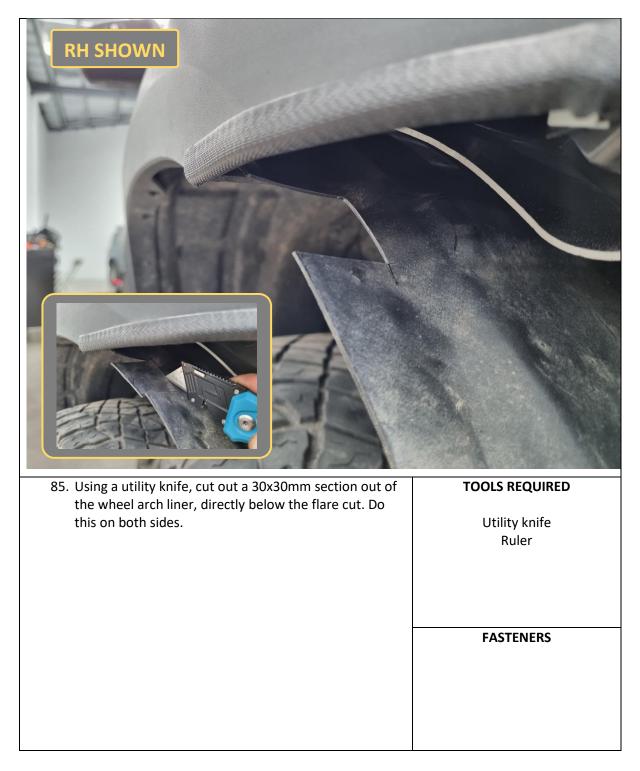






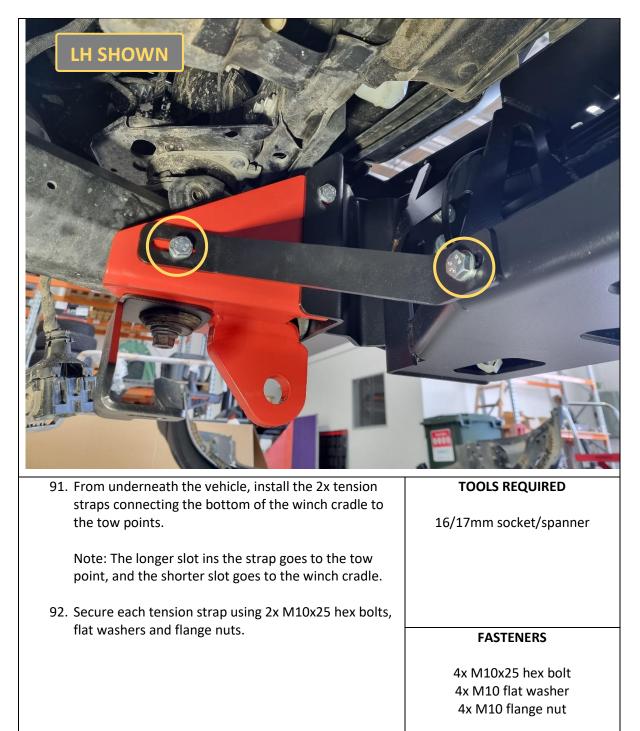


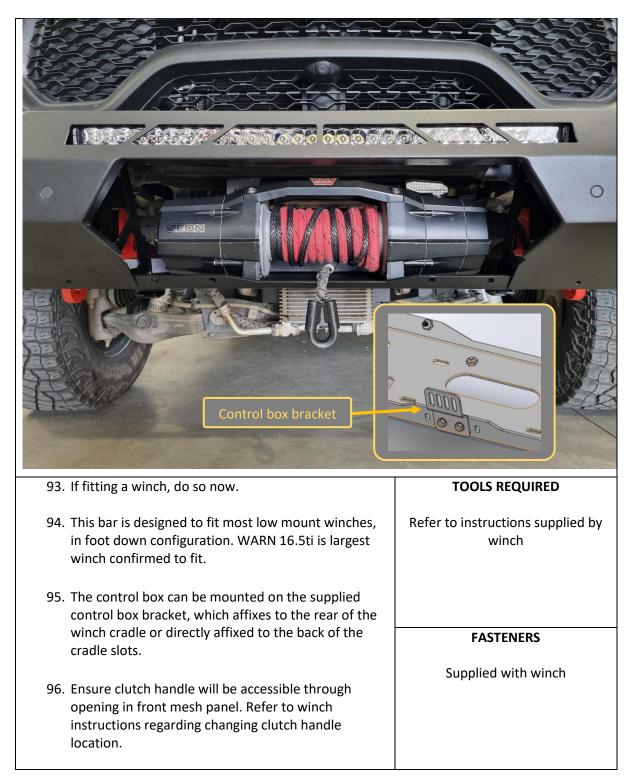




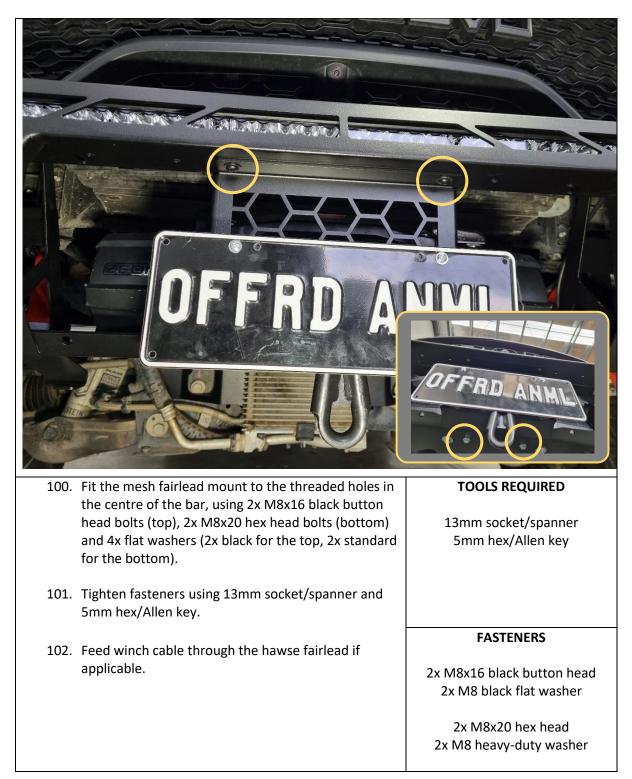


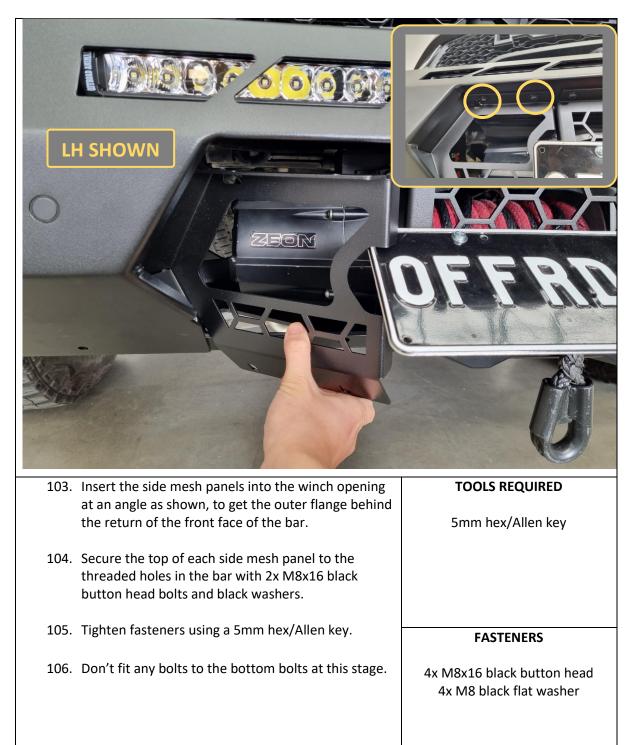


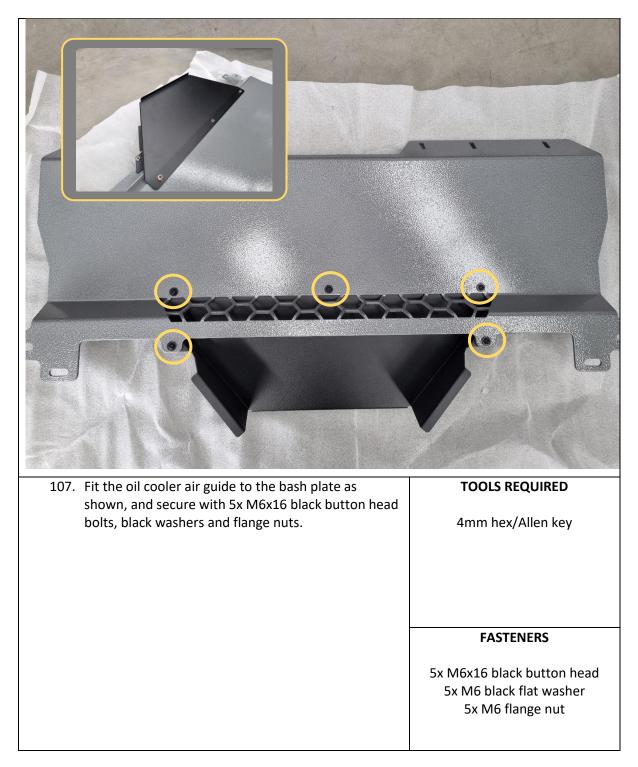


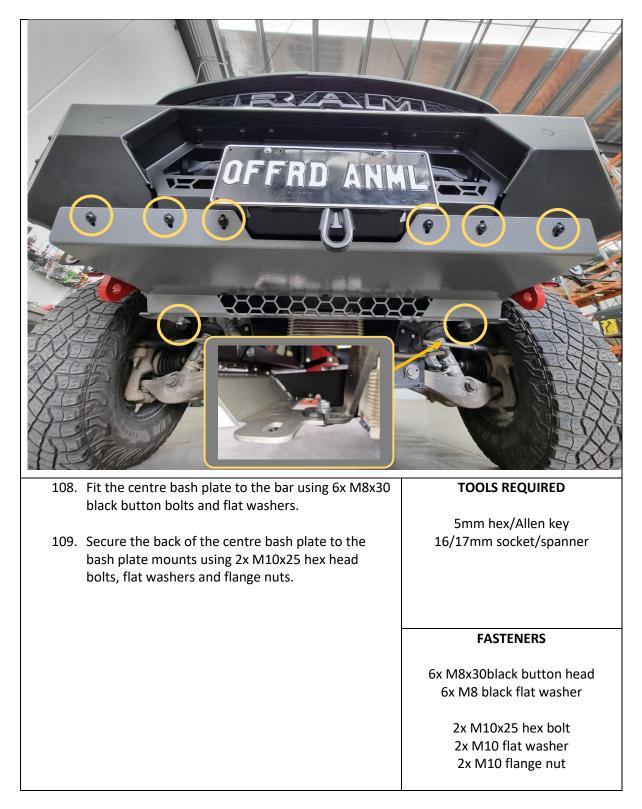


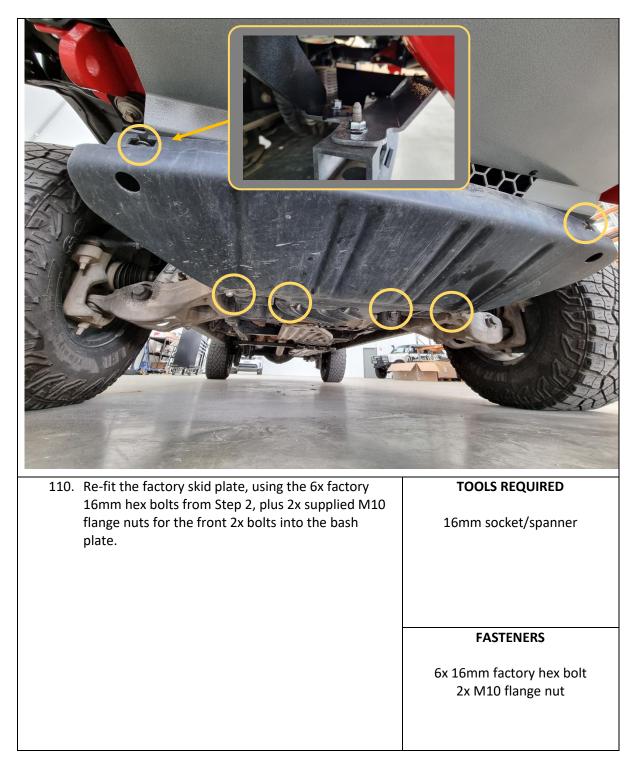


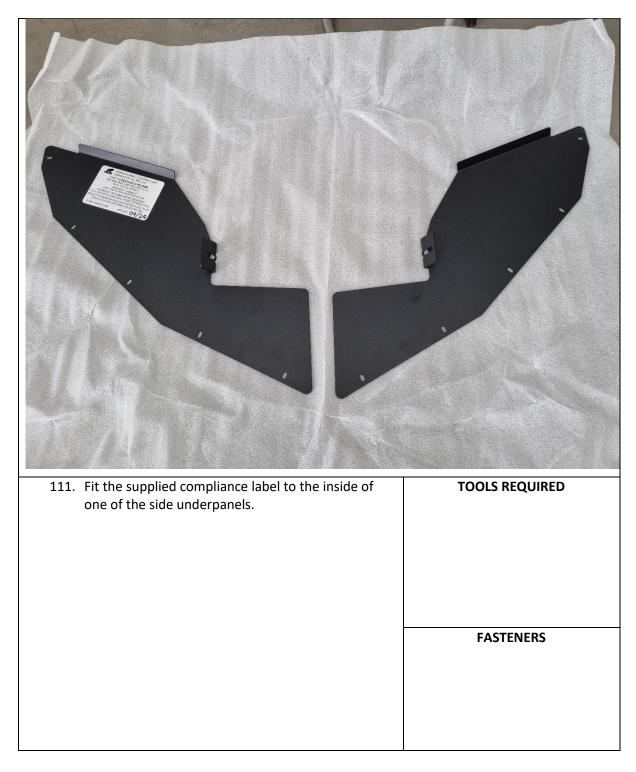














- Secure the side underpanel to the bar with 5x M6x16 black button head bolts and black flat washers.
- 113. Secure the side underpanel to the impact assembly (see inset) using 1x M8x20 hex head bolt, heavyduty washer and flange nut.
- 114. Repeat for other side underpanel.

### **TOOLS REQUIRED**

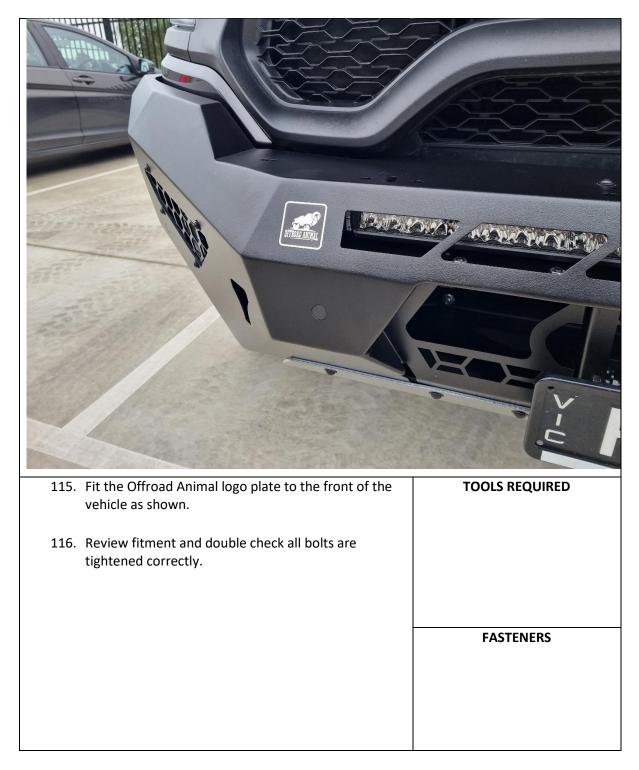
4mm hex/Allen key

13mm socket/spanner

### FASTENERS

10x M6x16 black button head 10x M6 black flat washer 10x M6 flange nut

2x M8x20 hex bolt 2x M8 heavy-duty washer 2x M8 flange nut





Congratulations! You're done! Head out of town and enjoy your newly protected TRX!

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