

Next Gen Ford Ranger Raptor Predator & Toro Front Bar



## Ford Ranger Raptor Next Gen

# 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	ber Description Image	
1	FB-FRR- P703-22-PR- ASM1	Next Gen Ranger Raptor Front Bar Weldment	
		OR	
1	FB-FRR- P703-22- TOR-ASM1	P703 Ranger Raptor Toro Bar Weldment	
1	FB-FRR- P703-22-PR- ASM2L	Next Gen Raptor Impact Assembly	
1	FB-FRR- P703-22-PR- ASM2R	Next Gen Raptor Impact Assembly	
1	FB-FRR- P703-22-PR- ASM3L	Raptor Next Gen - Chassis Brace Assy	
1	FB-FRR- P703-22-PR- ASM3R	Raptor Next Gen - Chassis Brace Assy	



1	FB-FRA-NG- 22-PR-ASM4	Next Gen Ranger Fairlead Mesh Assy	
1	M-0002L	Light Cover Mesh	CEBBERS S
1	M-0002R	Light Cover Mesh	CEREBO A
	1	OR	
1	M-0030L	Wing Mesh Panel - Toro With Indicator Repeater	
1	M-0030R	Wing Mesh Panel - Toro With Indicator Repeater	
1	B-0804L	Ford Ranger Next Gen Fog Light Bracket - Small 3 Bolt	
1	B-0804R	Ford Ranger Next Gen Fog Light Bracket - Small 3 Bolt	
1	U-0053	Next Gen RAPTOR Upper Bash Plate	



Next Gen Ford Ranger Raptor Predator & Toro Front Bar

1	U-0060	Next Gen RAPTOR Lower Bash Plate	
1	U-0054L	Next Gen Ranger Raptor Side Underpanel	
1	U-0054R	Next Gen Ranger Raptor Side Underpanel	
1	B-0780	Next Gen Ranger Predator Pan Brace	
1	P-0244	Ford Ranger Next Gen Radar Mount Plate	
1	B-0806	Next Gen RAPTOR Intercooler Air Guide	
1	B-0807	Next Gen RAPTOR Lower Bash Plate Support Bracket	01200
1	B-0782	Ford Ranger Next Gen Predator - Number Plate Bracket	
1	N-0004	Ford Ranger P703 Radar Cover Panel	

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Next Gen Ford Ranger Raptor Predator & Toro Front Bar

2	F-0010	Ford Ranger Next Gen Sensor Holder - Straight	
2	F-0011	Ford Ranger Next Gen Sensor Holder - 11 Deg Horizontal	
1	F-0013L	Ford Ranger Next Gen Sensor Holder - 11 Deg Vertical	
1	F-0013R	Ford Ranger Next Gen Sensor Holder - 11 Deg Vertical	
1	TK-COM- PSEN-6	Tape Kit - 6 Sensor Universal	No image

### **Toro ONLY Parts – In the Box**

Qty	Part Number	Description	Image	
2	B-0649	Toro Antenna Bracket – 90 Degree Tall		
1	B-0797L	Toro Indicator Repeater Bracket		
1	B-0797R	Toro Indicator Repeater Bracket		
1	11CAT1M-2	LED Autolamps 11CAT1M-2 Front Indicator - Twin Blister Pack		
Optional Extras				
2	LM-FRA-NG- IND	Indicator Wiring Harness – Next Gen Ranger (If Optioned)		



### Predator Small Parts – Contained in Small Parts Kit Bag

QTY.	PART NO.	DESCRIPTION	
8	M10 FW LHD	WASHER, FLAT M10X28.5X2.5	
8	M10 FLANGE NUT	Flange Nut, M10x1.5 G8.8 ZP	
4	M10x25	Bolt Hex, M10X25x1.5, GR8.8 ZP	
4	M8 HD FLAT WASHER	M8 FLAT WASHER - High Tensile 19x8x1.9mm	
6	M8 FLANGE NUT	Flange Nut, M8x1.25 G8.8 ZP	
4	M8 X 12 HEX	Bolt Hex, M8X12x1.25, GR8.8 ZP	
4	M8 X 20 HEX	Bolt Hex, M8X20x1.25, GR8.8 ZP	
9	M8 FLAT WASHER- BLACK ZINC	M8 FLAT WASHER, 16.5x8.4x1.2, ISO4042 ZnNi BLACK PASSIVATED FINISH	
7	M8 X 20 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M8X20X1.25, ISO4042 ZnNi BLACK PASSIVATED FINISH	
2	M8X 16 BHCS BZP	SCREW, BUTTON HEAD CAP, M8X16X1.25 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH	
16	M12 FLANGE NUT	Flange Nut, M12x1.75 G8.8 ZP	
16	M12 FW LHD	M12 FW Large Heavy Duty	
12	M12X30	Bolt Hex, M12X30x1.75, GR8.8 ZP	
2	M12 Nyloc nut	M12 NYLOC NUT	
42	M6 FLAT WASHER BLACK ZINC	M6 Flat washer, 12x6.1x1, ISO4042 ZnNi BLACK PASSIVATED FINISH	
34	M6x16 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M6X16X1 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH	
10	M6CN3MM	CAGE NUT M6x2.6-3.5	
30	M6 FLANGE NUT	Flange Nut, M6 G8.8 ZP	
3	M8 Cage nut	NUT, CAGE, M8X1.25 ZINC PLATE	
4	M10X20 BHCS	SCREW, BUTTON HEAD CAP, M10X20X1.5 GR12.9 ZP	
8	P-0024	Ranger tow point spacer	
4	M12X50	Bolt Hex, M12X50x1.75, GR8.8 ZP	
2	M12 FLAT WASHER	M12 FW	
2	NP-COM-M12-300- ASM0	M12 NUT PLATE 300MM STEM	
3	M6x12 BHCS	SCREW, BUTTON HEAD CAP, M6X12X1 GR12.9 ZP	
3	M6x30 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M6X30X1 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH	
2	M8 NYLOC	NYLOC SELF LOCKING NUT, ST STL A2 ISO	
8	M8 FLAT WASHER	M8 FW	
2	M8 X 25 HEX	Bolt Hex, M8X25x1.25, GR8.8 ZP	
2	M8 NYW	Washer, M8, Nylon	



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

Qty	Part Number	Description
4	M3X12 PAN	SCREW, PAN HEAD PHILLIPS, M3X12X0.5 GR4.6 ZP
4	M3 FLAT WASHER	Flat Washer M3, 7mmODx0.5mm T
4	M3 NUT	Hex Nut, M3x0.5 G48.8 ZP
3	M6x12 BHCS	SCREW, BUTTON HEAD CAP, M6X12X1 GR12.9 ZP
38	M6x16 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M6X16X1 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH
3	M6x30 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M6X30X1 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH
46	M6 FLAT WASHER BLACK ZINC	M6 Flat Washer, 12x6.1x1, ISO4042 ZnNi BLACK PASSIVATED FINISH
32	M6 FLANGE NUT	Flange Nut, M6x1 G8.8 ZP
12	M6CN3MM	CAGE NUT M6x2.6-3.5
2	M8 X 16 BHCS BZP	SCREW, BUTTON HEAD CAP, M8X16X1.25 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH
11	M8 X 20 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M8X20X1.25, ISO4042 ZnNi BLACK PASSIVATED FINISH
4	M8 X 12 HEX	Bolt Hex, M8X12x1.25, GR8.8 ZP
4	M8 X 20 HEX	Bolt Hex, M8X20x1.25, GR8.8 ZP
2	M8 X 25 HEX	Bolt Hex, M8X25x1.25, GR8.8 ZP
8	M8 FLAT WASHER	M8 FW
13	M8 FLAT WASHER- BLACK ZINC	M8 FLAT WASHER, 16.5x8.4x1.2, ISO4042 ZnNi BLACK PASSIVATED FINISH
4	M8 HD FLAT WASHER	M8 FLAT WASHER - High Tensile 19x8x1.9mm
2	M8 NYW	Washer, M8, Nylon
6	M8 FLANGE NUT	Flange Nut, M8x1.25 G8.8 ZP
2	M8 NYLOC	NYLOC SELF LOCKING NUT, ST STL A2 ISO
3	M8 Cage nut	NUT, CAGE, M8X1.25 ZINC PLATE
4	M10X20 BHCS	SCREW, BUTTON HEAD CAP, M10X20X1.5 GR12.9 ZP
4	M10 x 25	Bolt Hex, M10X25x[1.5], GR8.8 ZP
8	M10 FW LHD	WASHER, FLAT M10X28.5X2.5
8	M10 FLANGE NUT	Flange Nut, M10x1.5 G8.8 ZP
12	M12X30	Bolt Hex, M12X30x1.75, GR8.8 ZP
4	M12X50	Bolt Hex, M12X50x1.75, GR8.8 ZP
2	M12 FLAT WASHER	M12 FW
16	M12 FW LHD	M12 FW Large Heavy Duty
16	M12 FLANGE NUT	Flange Nut, M12x1.75 G8.8 ZP
2	M12 Nyloc nut	M12 NYLOC NUT
8	P-0024	Ranger tow point spacer
2	NP-COM-M12-300- ASM0	M12 NUT PLATE 300MM STEM



## **TOOLS REQUIRED**

The following tools will be required to install the product.

Hand Tools	Power Tools	Workshop Supplies
Metric Socket Set 5.5-		Panel Stand or Soft
19mm	Electric/Air Impact	Blanket
Socket Extension Bar	Driver (Optional)	Cable Ties
Metric Spanner Set 5.5-	Air Hacksaw	Masking Tape
19mm	Or	Black Automotive
Hex (Allen) Key Set 4-	Oscillating Multi Tool	paint
6mm	Or	Scotch Brite or Fine
Torx Key Set	Angle Grinder	Sandpaper
Trim Puller Tool		Crimp terminals (Toro
Flat Blade Screwdriver		Only)
set		
Phillips Head		
Screwdriver set		
Utility Knife		
Side Cutters		
Pliers		
Wire Strippers (Toro		
Only)		
Crimping Tool (Toro		
Only)		

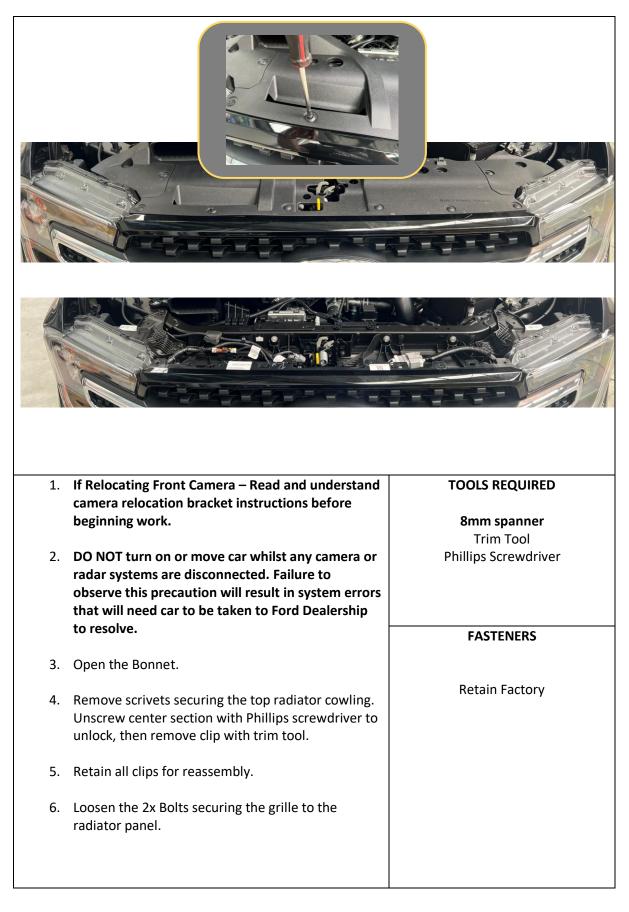


## **WORKSHOP SAFTEY**

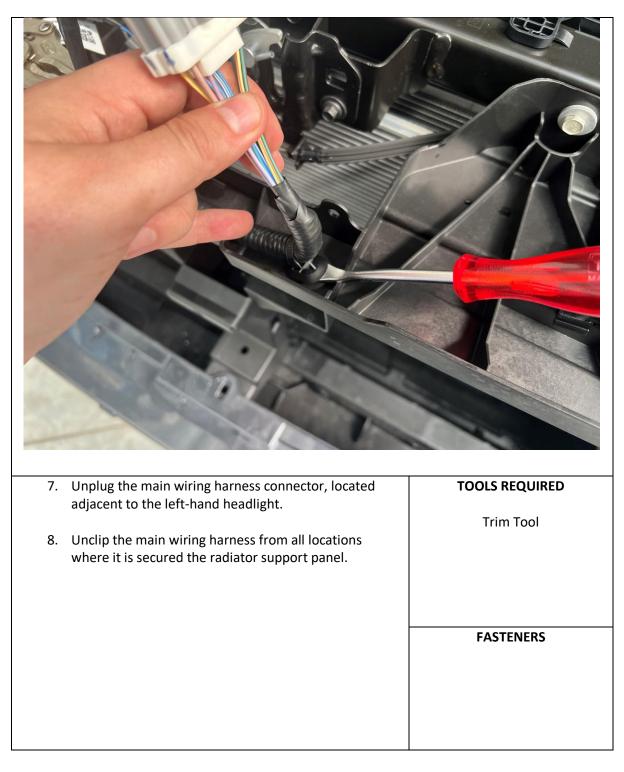
It is the responsibility of the installer to always complete works in a safe manner. Make sure the following safety equipment is available and precautions are observed whilst fitting this product.

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.

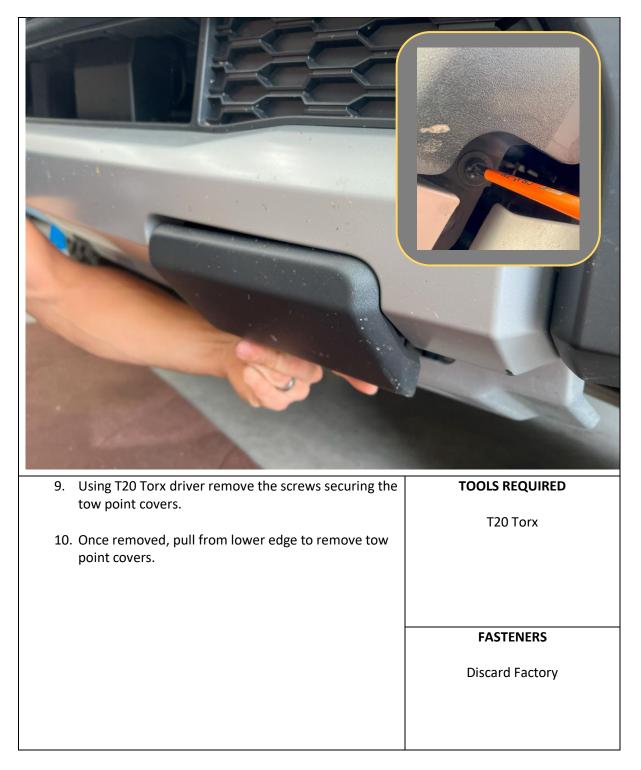




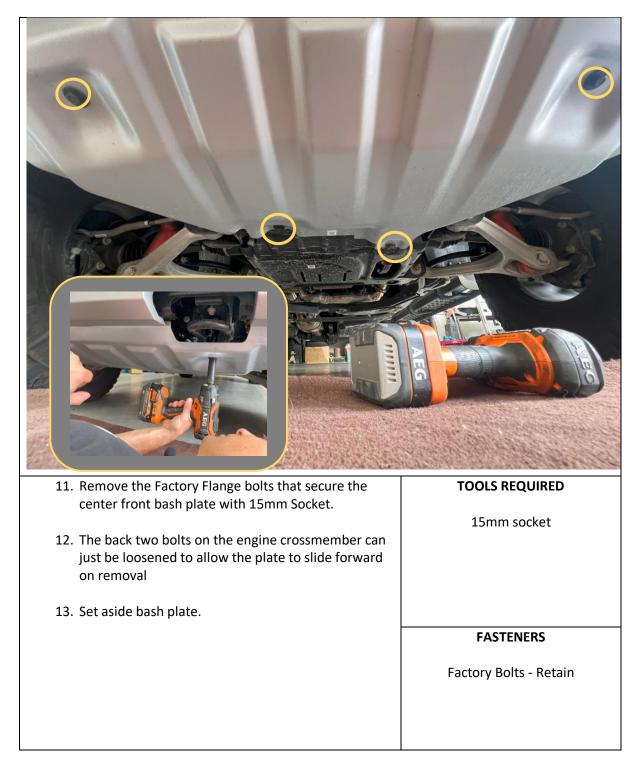






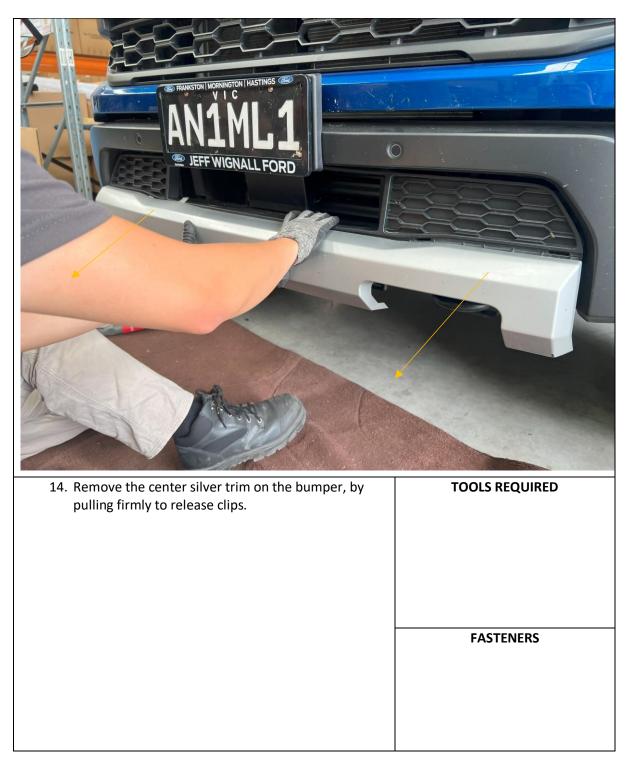






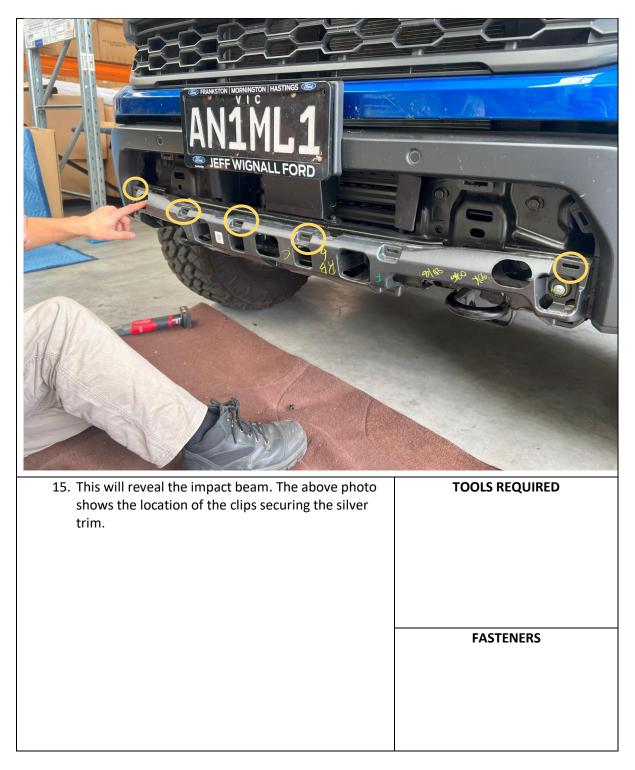


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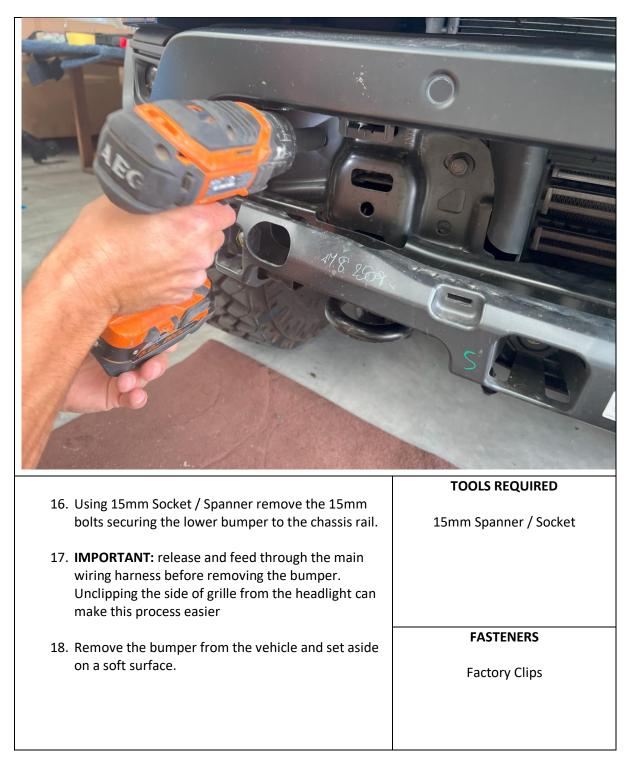


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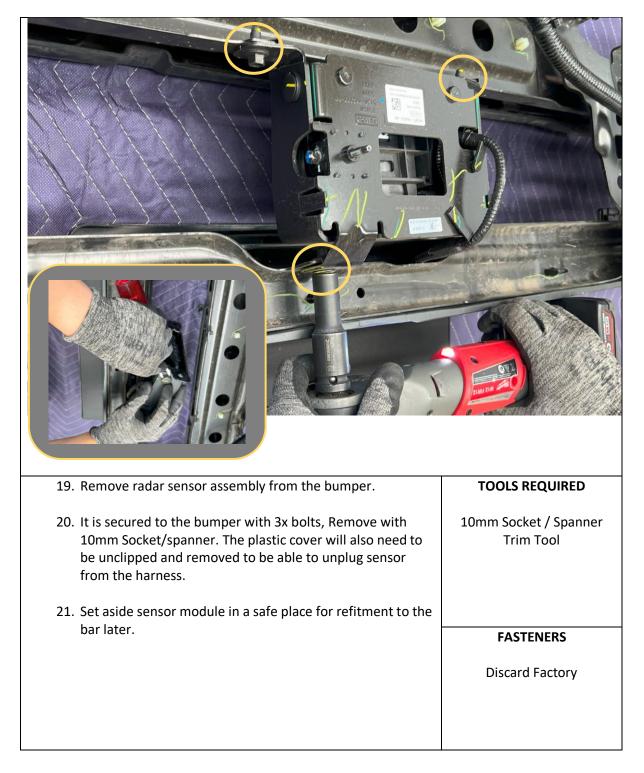




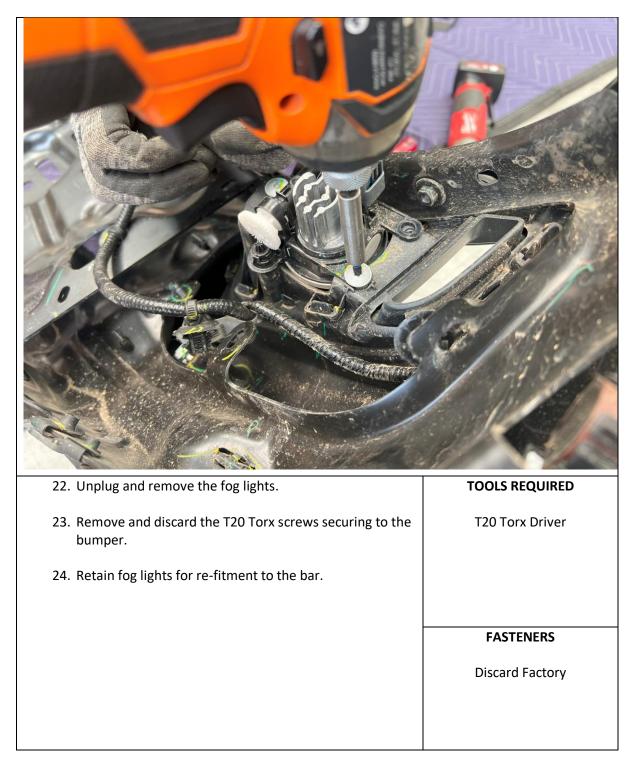




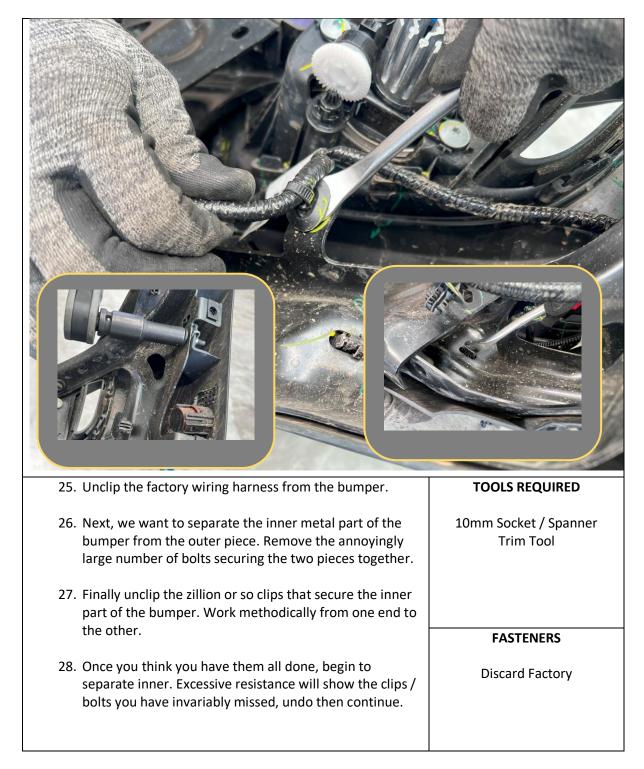




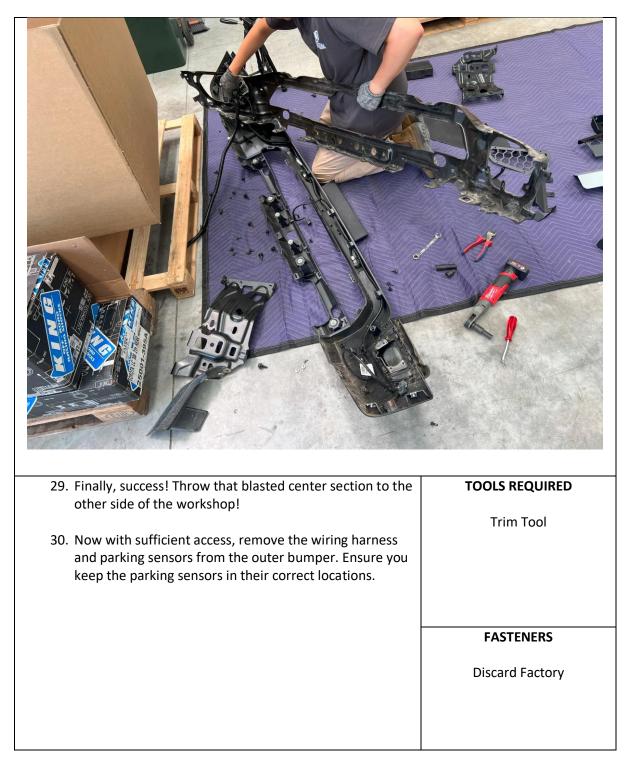












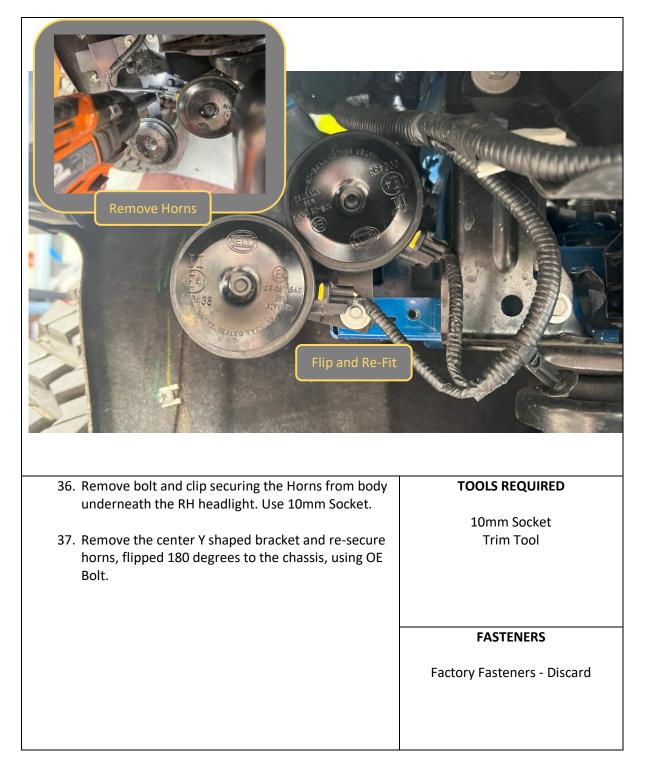




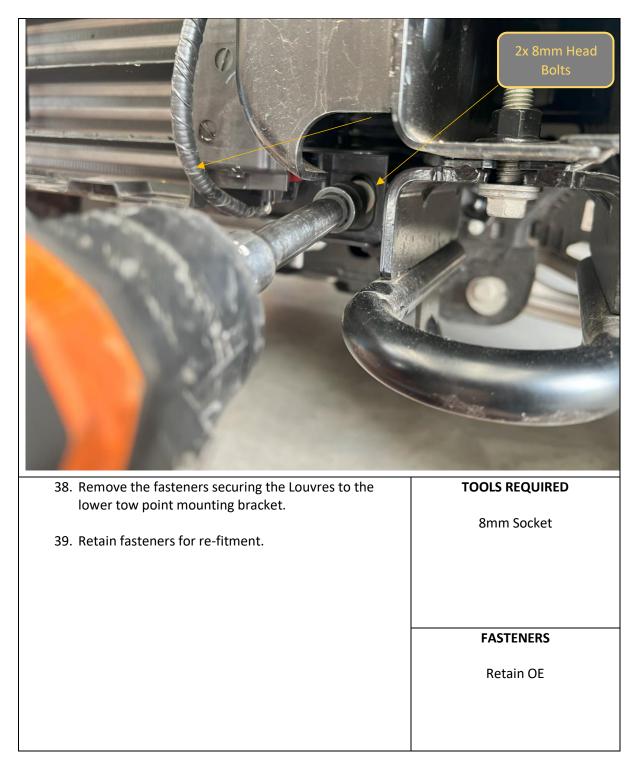




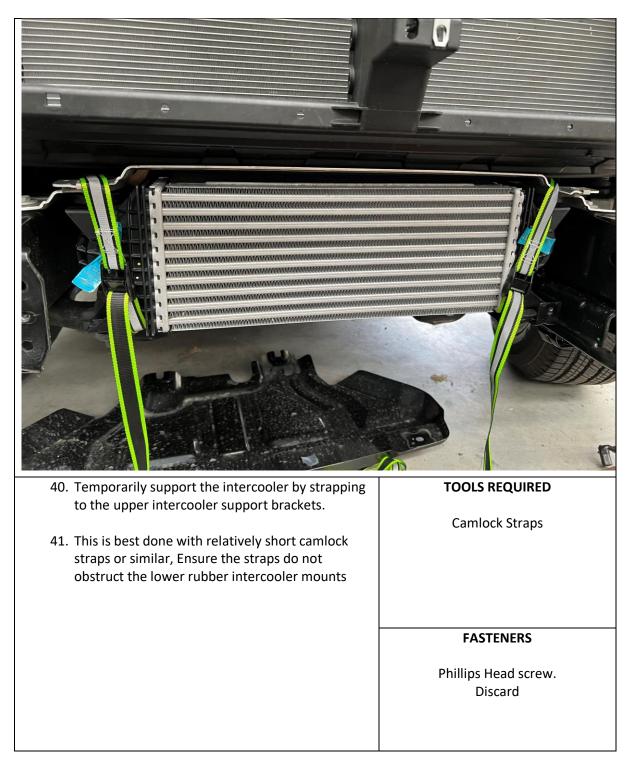




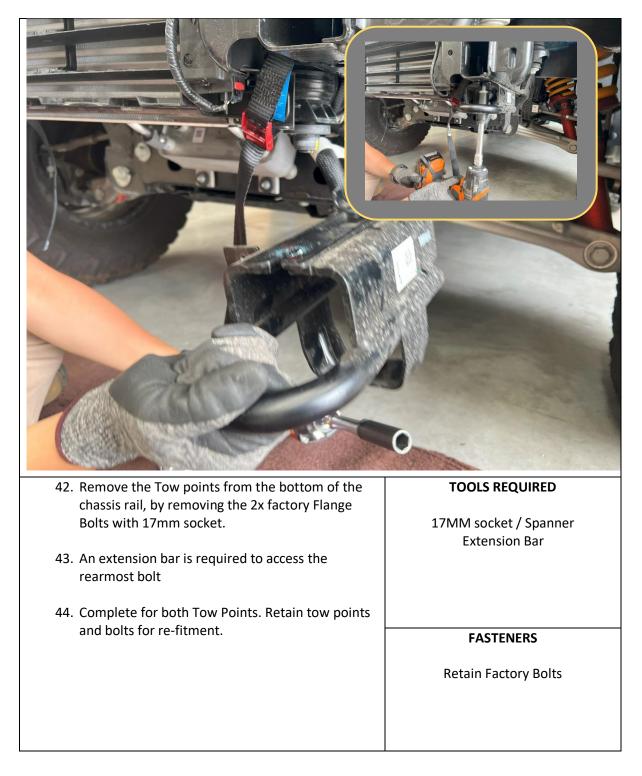








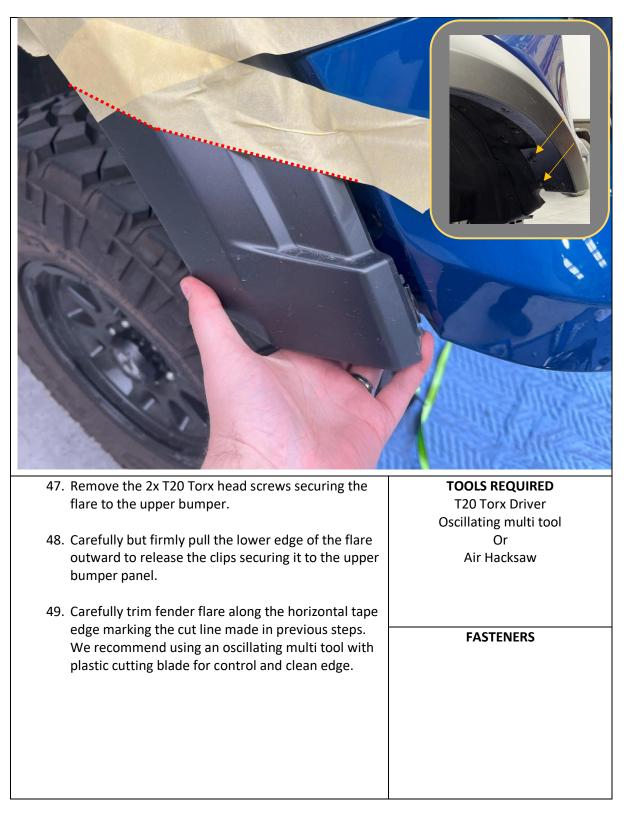


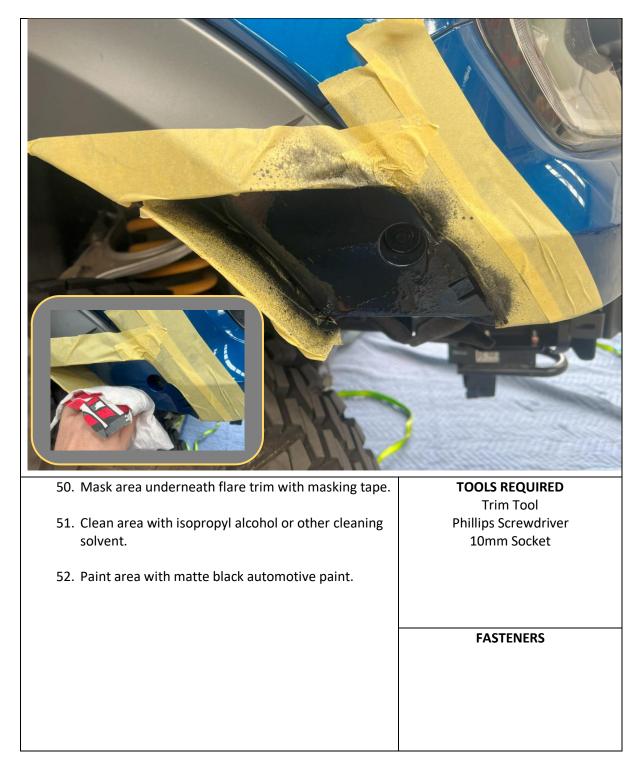




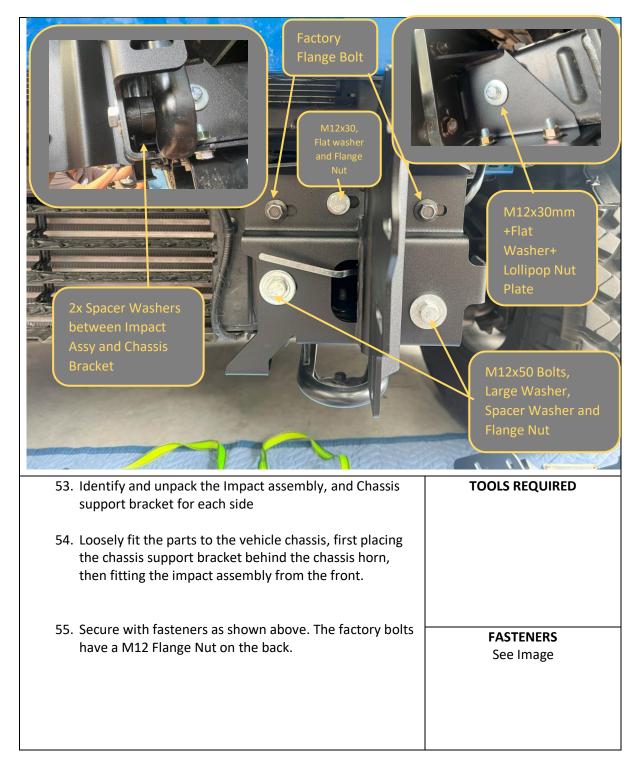
Mark Cut Line (Red) Parallel to bottom of upper bumper	Intersecting at this point Detail View L45mm approx.
45. Mark the fender flare cut line as shown in the diagram above.	TOOLS REQUIRED
	Masking tape
46. The cut line is to be parallel to the bottom of the upper bumper / flare and intersecting the corner of moulded flare pressing.	
The vertical spacing should be approximately	
145mm from the bottom of the flare.	
	FASTENERS
The cut will be the full width of the flare.	



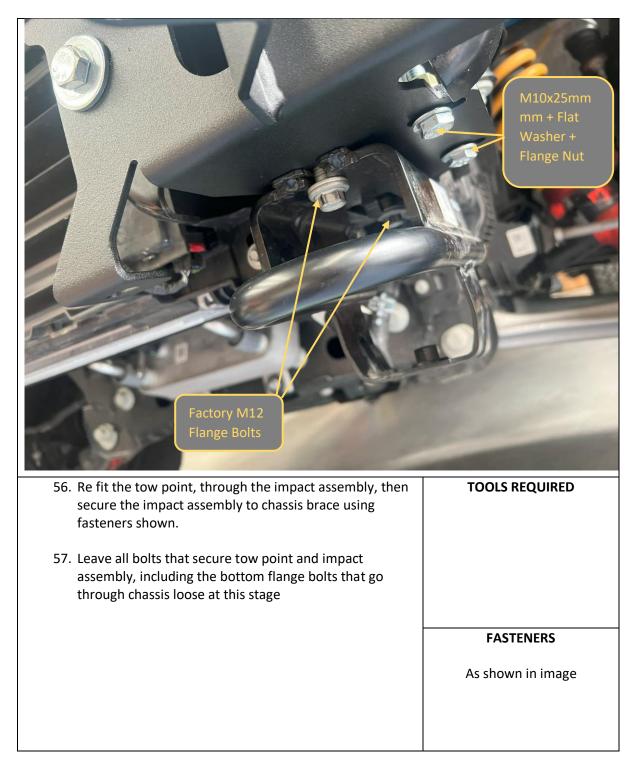




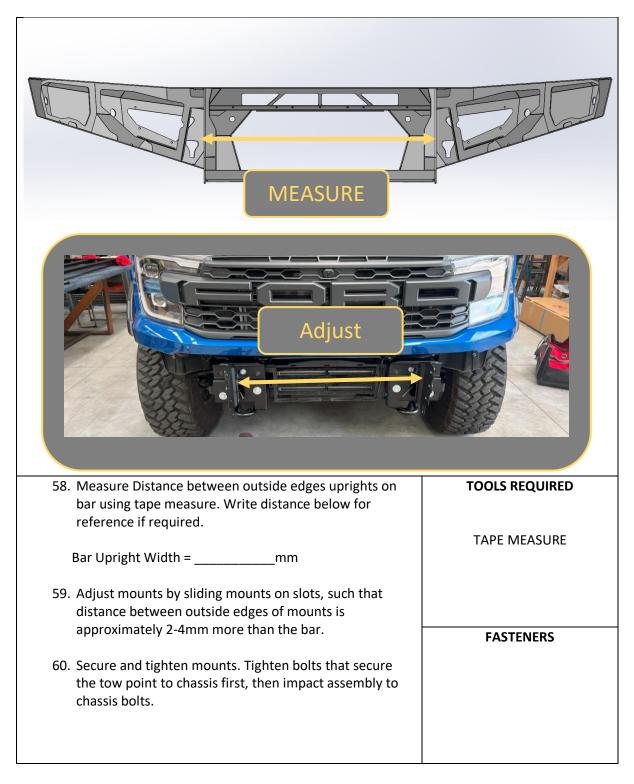




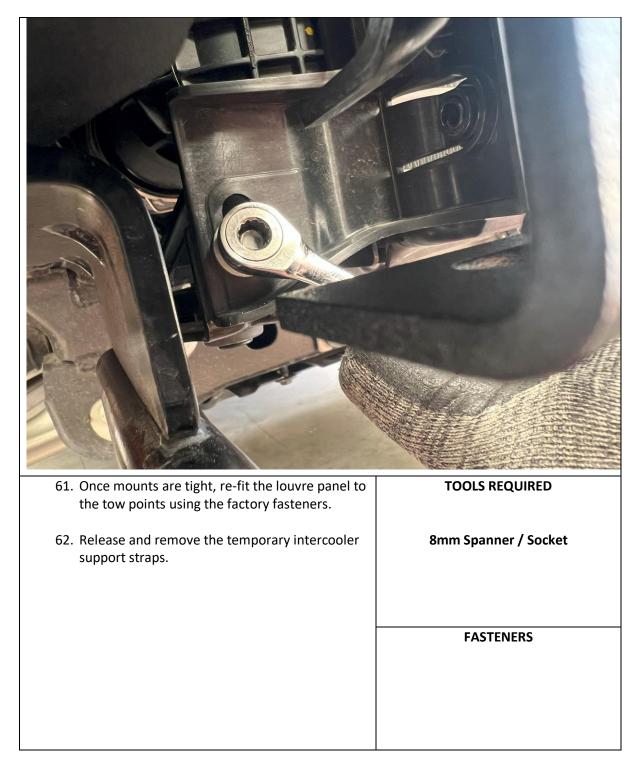




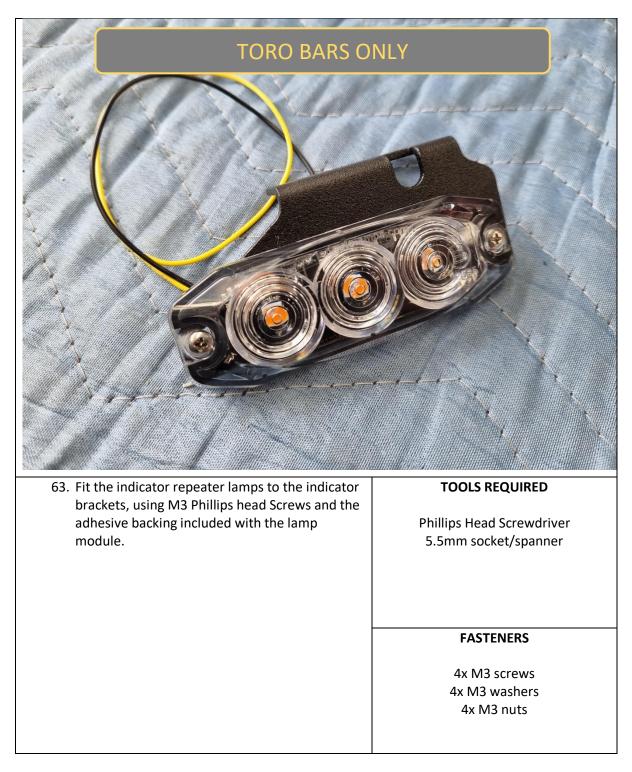


















#### Next Gen Ford Ranger Raptor Predator & Toro Front Bar



- 66. Fit the fog lights to the fog light brackets using 3x M6x16 black button head bolts, washers and flange nuts.
- 67. Fit the fog light brackets to the Mesh Panels, using the supplied M8x12 Bolts. Fog lights should face straight ahead when fitted.

#### **TOOLS REQUIRED**

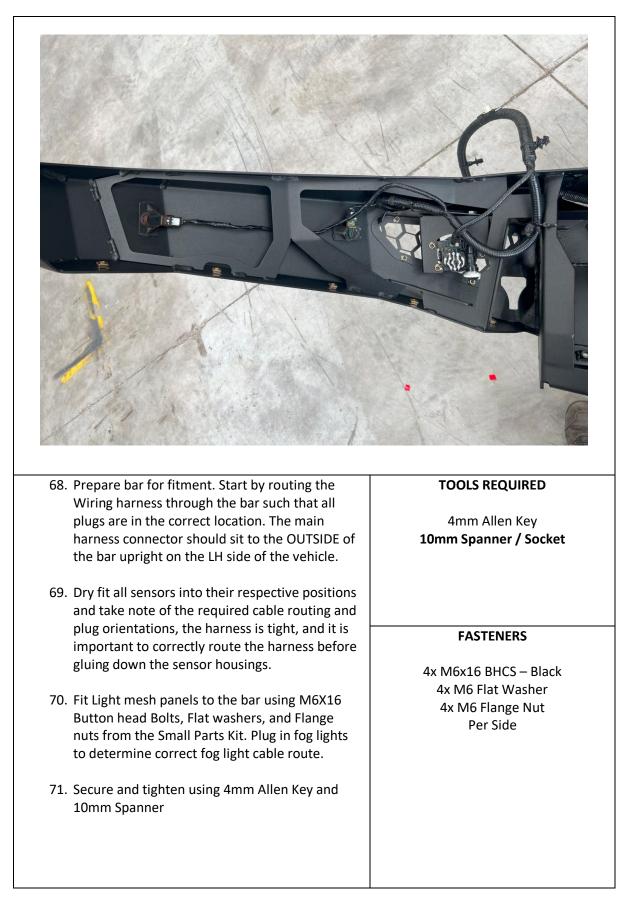
4mm Allen Key 10mm Spanner / Socket 13mm Spanner / Socket

#### FASTENERS

3x M6x16 BHCS – Black 3x M6 Flat Washer 3x M6 Flange Nut per Side

> 2xM8x12 2xM8 Flat Washer 2x M8 Flange Nut

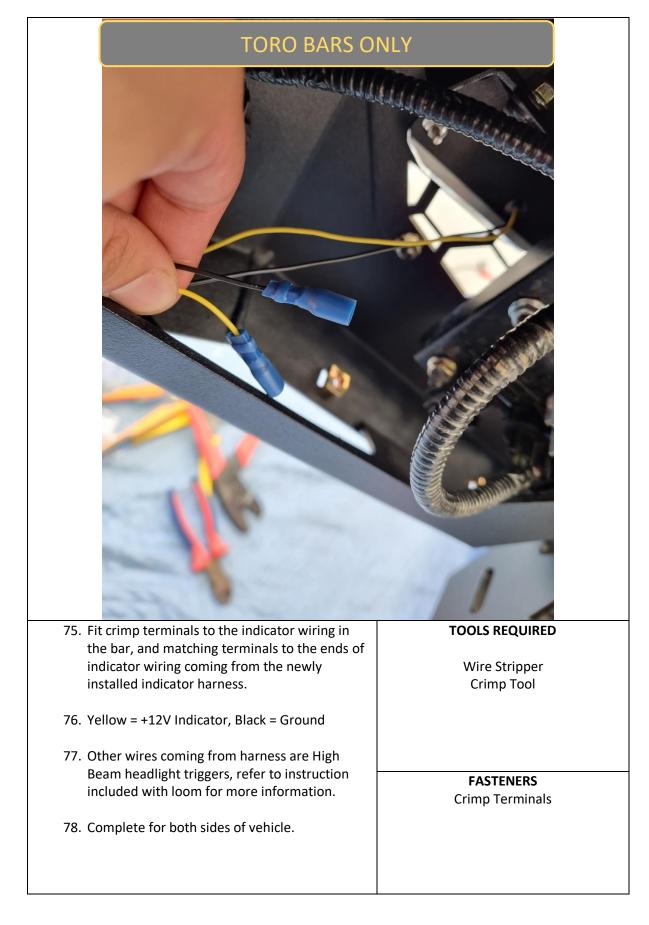


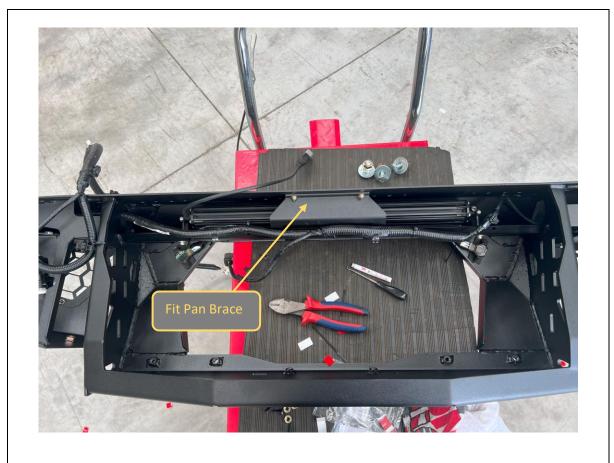




TORO BARS ONLY	
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72. The indicators fitted to the Toro bar will need to be spliced and wired and into the vehicle headlights.	TOOLS REQUIRED
73. If the <b>optional</b> Offroad Animal LM-FRA-NG-IND Indicator Wiring Harness is to be fitted, unplug the main headlight harness connector located on the back side of the headlight on both sides.	
74. Plug in the Indicator breakout harness in- between the vehicle loom and headlight. Ensure the 16 Pin plugs are fully connected to both the headlight and vehicle loom.	FASTENERS







- 79. If fitting an integrated light bar, do so now.
- 80. The bar is designed to fit an Offroad Animal 22in or 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.
- 81. The bar can accommodate most other "20- 22inch" size light bars.
- 82. If fitting driving lights or top hoop to the bar this is also the most convenient time to do so. It is still possible later but is more difficult.
- 83. 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
- 84. Continue to dry fit and optimize cable routes for center section.

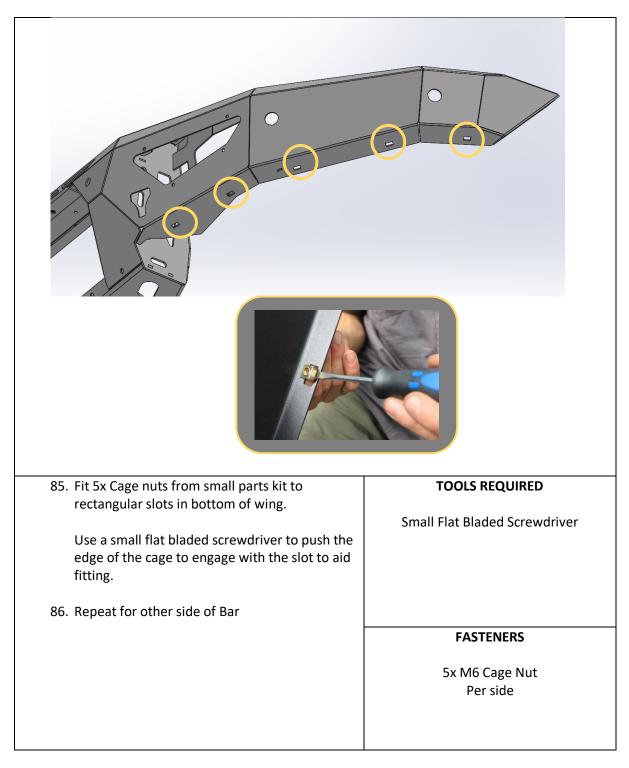
#### **TOOLS REQUIRED**

4mm Allen Key 10mm Spanner / Socket

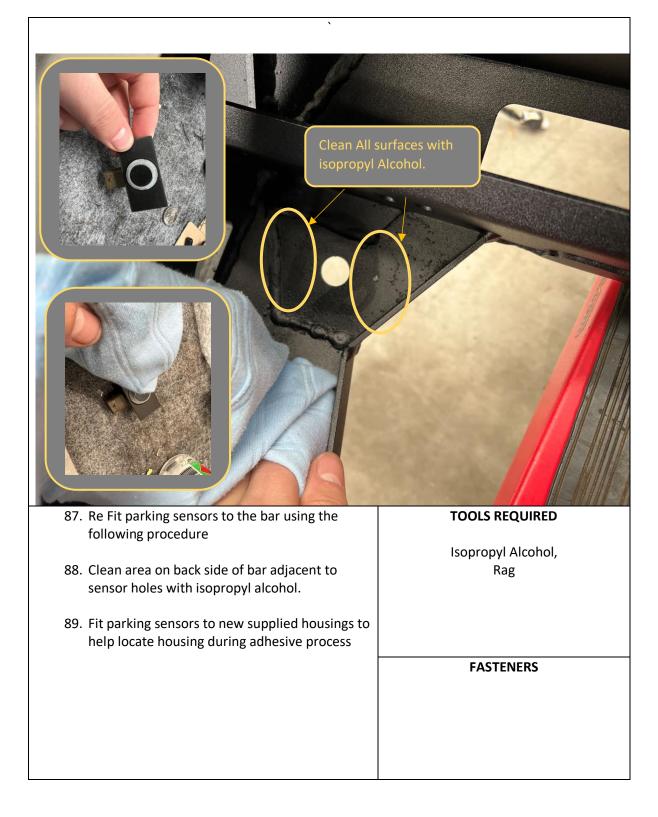
#### FASTENERS

2x M6x16 BHCS – Black 3x M6x12 BHCS 5x M6 Flat Washer 5x M6 Flange Nut

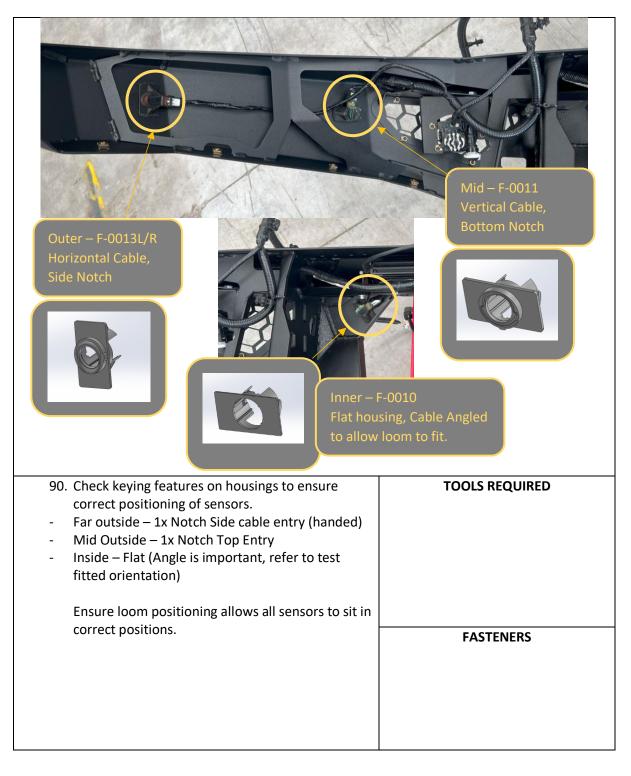




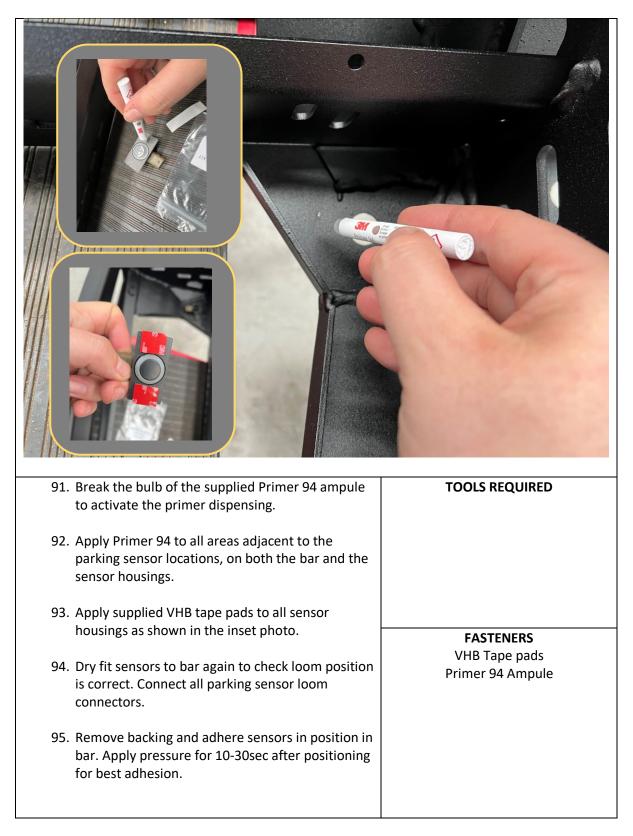




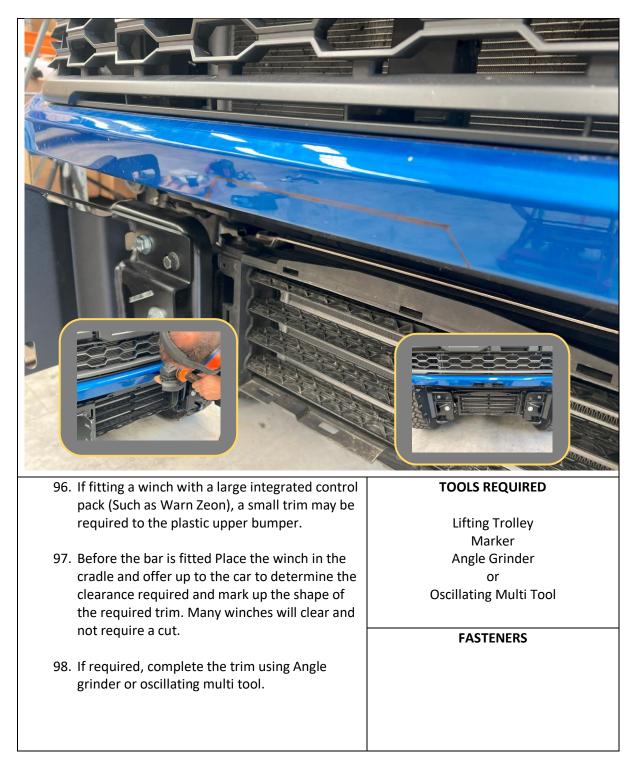




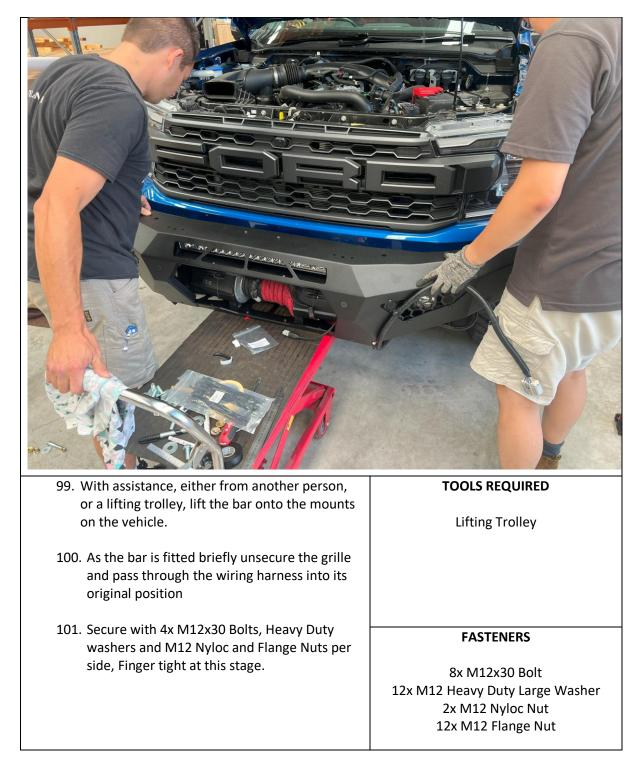








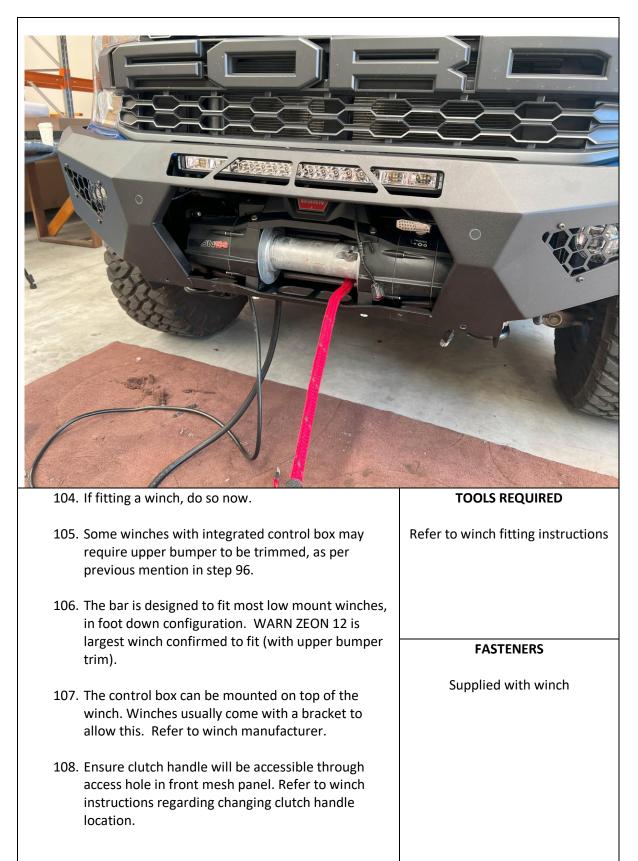




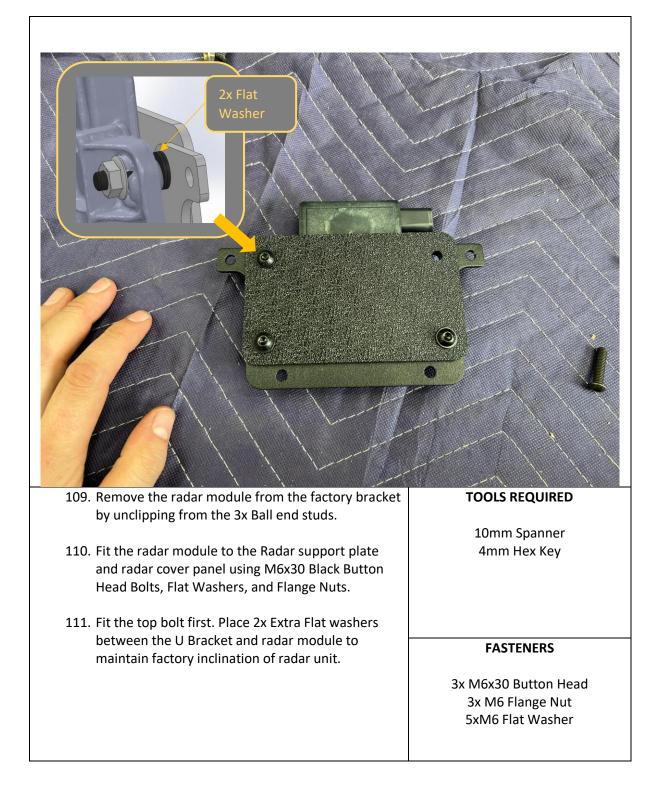




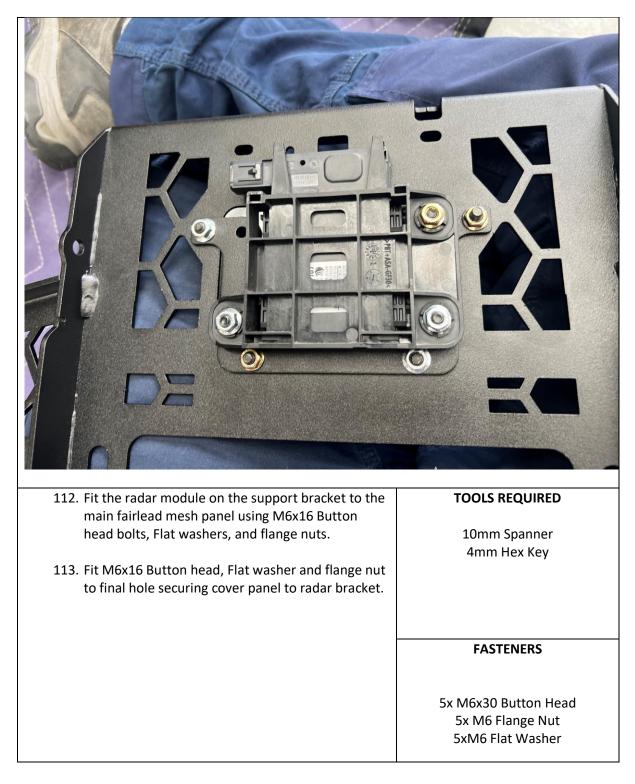






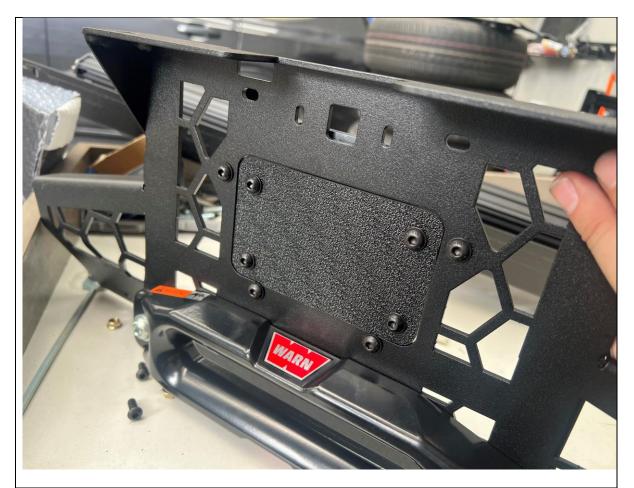








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- 114. If Required, Fit winch fairlead to Mesh Fairlead Mount. Use M10 or 3/8" Fasteners supplied with winch. The bar is only compatible with Hawse type fairleads.
- 115. Fit Number plate flip bracket to fairlead mount, M8x25 Bolt, Flat washer, Nylon washer and Nylon Lock nut. Ensure nylon washer sits between the bracket and fairlead mount.
- 116. If Relocating Front Camera Refit camera to mesh panel at this stage – Refer to Camera Relocation Kit instructions

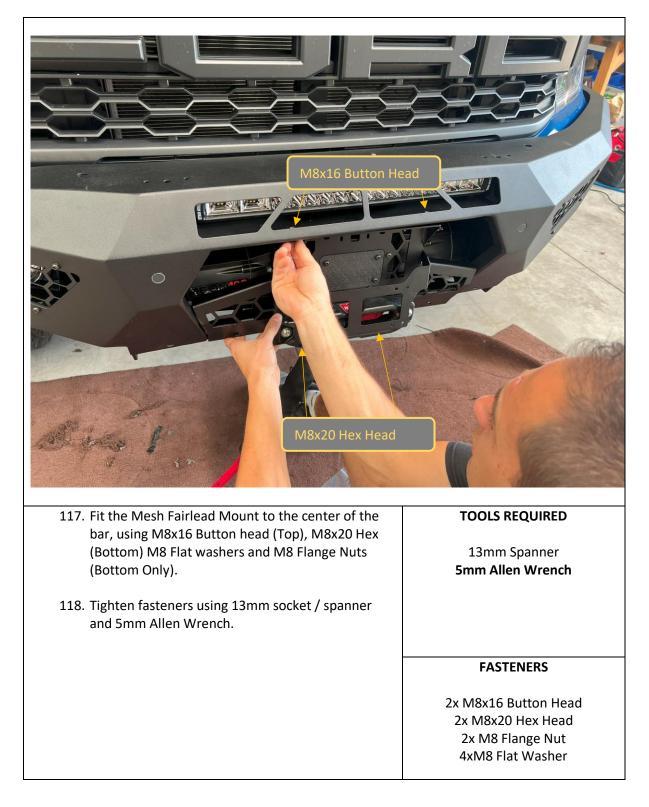
#### **TOOLS REQUIRED**

13mm Spanner 10mm Spanner 4mm Hex Key

#### FASTENERS

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

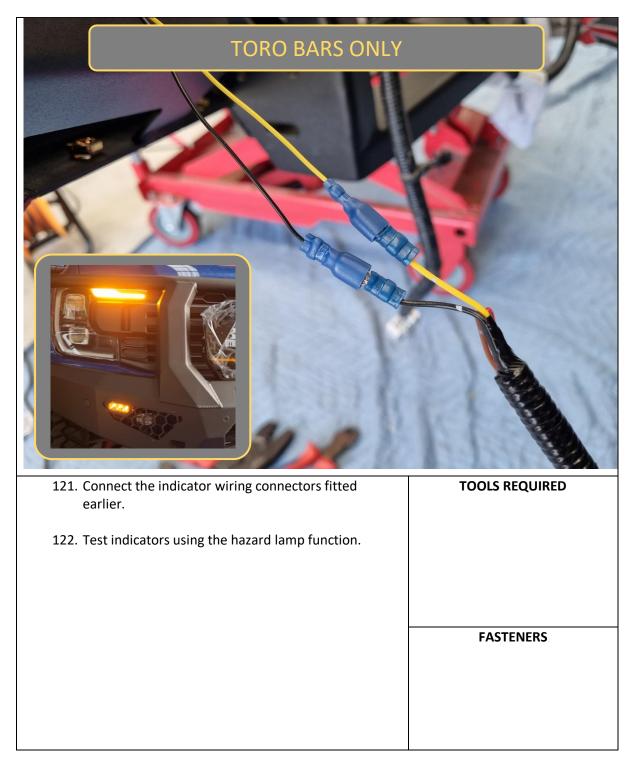






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119. Re Connect Electrical Harness, camera plug and camera washer hose.	TOOLS REQUIRED
120. Replace upper radiator cowl using original clips.	
	FASTENERS
	Factory clips (re-use)







Next Gen Ford Ranger Raptor Predator & Toro Front Bar



- 123. Before fitting the upper center bash plate to the vehicle, secure the Air guide to the bash plate using 3xM6X16 BHCS, Flat washers and Flange Nuts (see inset).
- 124. Fit 3x M8 Cage Nuts to the square slots on the bottom edge of the upper center bash plate.
- 125. Fit Upper Center Bash Plate using, M8x20 button head, flat washers.
- 126. Secure Bottom of Upper Center Bash Plate to mount on impact assembly using supplied M10x25 Button head, backed by a supplied M10 Flange Nut.
- 127. Tighten Bottom fasteners using 6mm Hex key
- 128. Tighten front fasteners using 5mm Hex key.

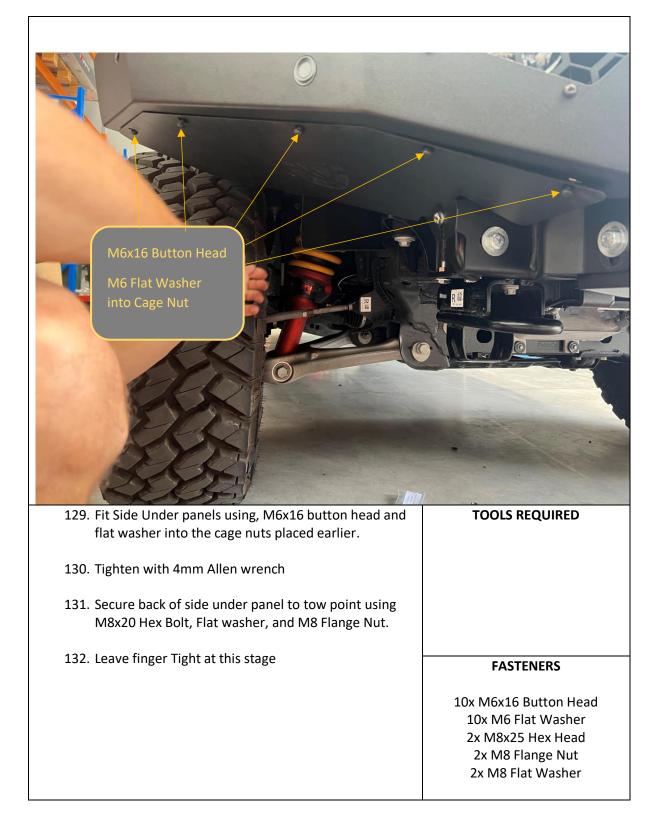
## **TOOLS REQUIRED**

10, 13 mm Spanner 5 mm Allen Wrench

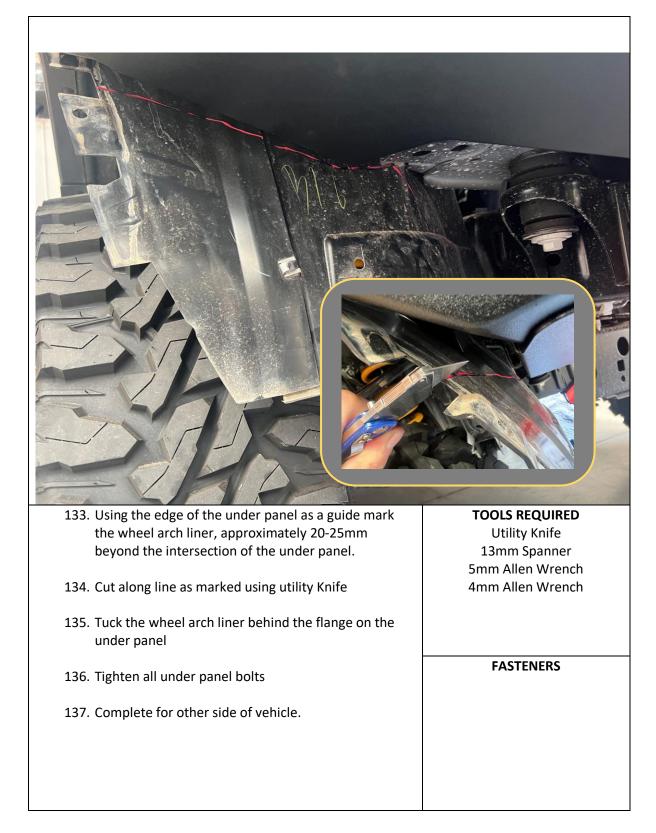
#### FASTENERS

4x M8x20 Button Head 4xM8 Flat Washer 2x M10x25 Button Head 2xM10 Flat Washer 2xM10 Flange Nut 3x M6x16 Black BHCS 3xM6 Black Flat Washer 3x M6 Flange Nut











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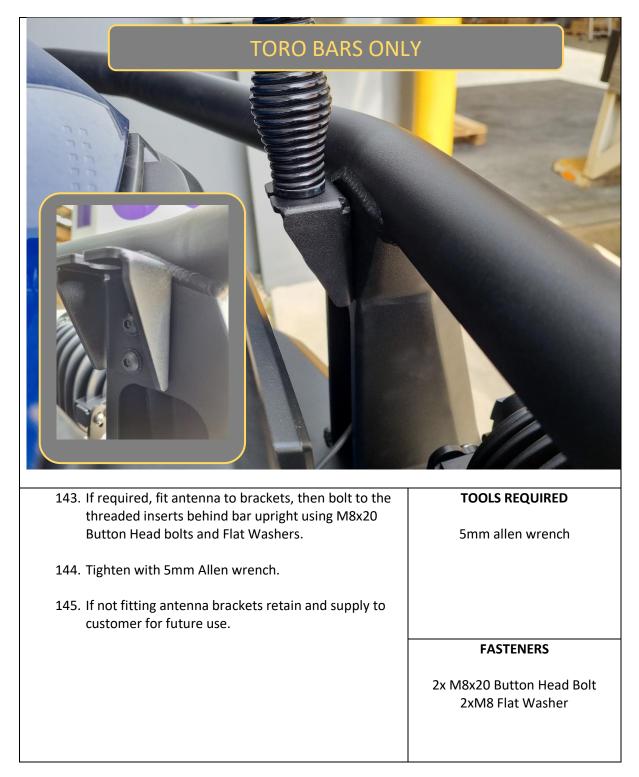
- 138. Fit the Lower center bash plate support bracket to the lower bash plate using the supplied M10x20 Button head fasteners.
- 139. Start Installing the lower bash plate by sliding over factory bolts on the engine crossmember.
- 140. Secure to tow points using Factory bolts
- 141. Secure to Upper center bash plate using 3x M8x20 Black Button head bolts and flat washers into the M8 Cage nuts fitter earlier.
- 142. Tighten all fasteners.

TOOLS REQUIRED 15mm Spanner / Socket 5mm Allen Wrench 6mm Allen Wrench

#### FASTENERS

3x M8x20 BHCS Black 3x M8 Black Washer 2x M10x20 BHCS 2x M10 Flat Washer 2x M10 Flange Nut









- 146. Check all Fasteners are tight.
- 147. If Relocating Front Camera Complete camera relocation steps Refer to Camera Relocation Kit instructions
- 148. Re-Fit number plate to number plate flip.
- 149. Head Bush and Enjoy your newly protected Raptor!

# For contact details see www.offroadanimal.com