



Toyota LandCruiser 70 Series

MY24+ Facelift

Predator & Toro Front Bar Fitting Instruction

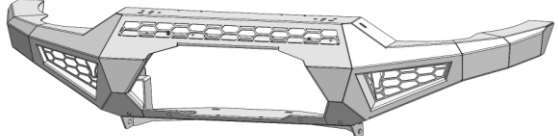
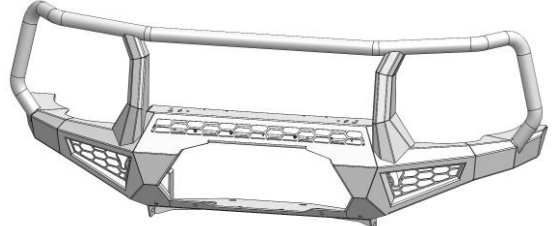
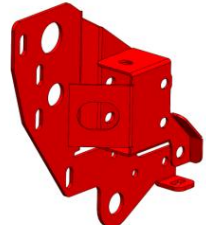
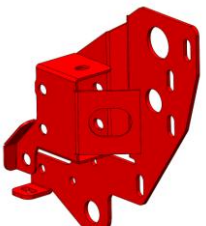
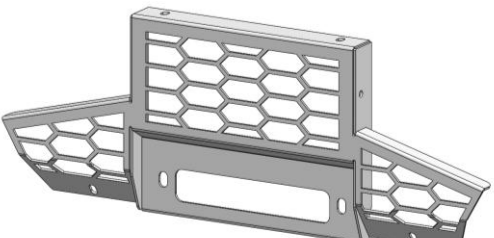
IMPORTANT! – READ BEFORE INSTALLATION

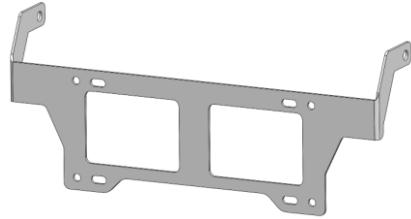
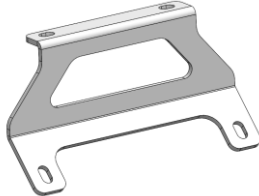
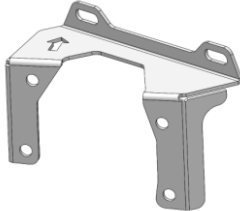
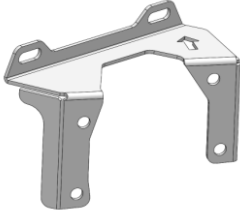
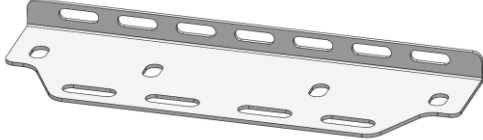
- When installed in accordance with these instructions, the front protection bar does not affect the operation of the vehicles SRS airbags.
- This product must be installed exactly as per these instructions using only hardware supplied.
- Take a few moments to read instructions thoroughly before beginning 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.

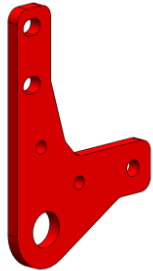
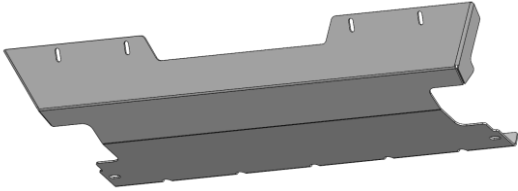
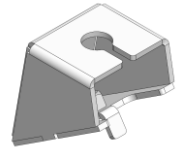
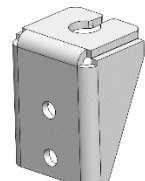
PARTS LISTING

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

Parts List

Qty	Part Number	Description	Image
PREDATOR ONLY			
1	FB-TLC-70-24-PR-ASM1	LC70 24+ Predator Bar Weldment	
TORO ONLY			
1	FB-TLC-70-24-TOR-ASM1	LC70 24+ Toro Bar Weldment	
1	FB-TLC-70-07-PR-ASM2R	70 Series Front Mount Assy	
1	FB-TLC-70-07-PR-ASM2L	70 Series Front Mount Assy	
1	FB-TLC-70-24-PR-ASM2	LC70 24+ Mesh Fairlead Welded Assy	

1	B-0822	WL Predator Number Plate Bracket	
2	B-1167	LC70 24+ Pan Brace	
1	B-1168R	LC70 24+ Fog Light Bracket	
1	B-1168L	LC70 24+ Fog Light Bracket	
2	B-1169	Wing Mesh Light Bracket	
2	P-0024	Ranger tow point spacer	
2	P-0080	LC70 Front Bar - Tow Spacer	

2	P-0081	LC70 Front Bar - Tow Outer	
1	U-0079	LC70 24+ Bash Plate	
1	FB-R25-DJ2-19-PR-ADRCF	ADR Compliance Plate RAM 2500 DJ2	
1	OFA-LOGO	Offroad Animal Metal Logo	
1	FI Note	Fitting Instruction Note	N/A
PREDATOR ONLY			
1	FB-TLC-70-24-PR-ASM3	LC70 24+ Predator Antenna Mount Welded Assembly	
TORO ONLY			
2	B-0649	Toro Antenna Bracket – 90 Degree Tall	

PREDATOR Fasteners – Contained in Small Parts Kit Bag

Qty	Part Number	Description
24	M6x16 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M6X16X1 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH
24	M6 FLAT WASHER BLACK ZINC	M6 Flat Washer, 12x6.1x1, ISO4042 ZnNi BLACK PASSIVATED FINISH
14	M6 FLANGE NUT	Flange Nut, M6x1 G8.8 ZP
2	M8 X 20 HEX	Bolt Hex, M8X20x1.25, GR8.8 ZP
2	M8 X 16 BHCS BZP	SCREW, BUTTON HEAD CAP, M8X16X1.25 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH
6	M8 X 25 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M8X25X1.25, ISO4042 ZnNi BLACK PASSIVATED FINISH
2	M8 FLAT WASHER	M8 FW
8	M8 FLAT WASHER- BLACK ZINC	M8 FLAT WASHER, 16.5x8.4x1.2, ISO4042 ZnNi BLACK PASSIVATED FINISH
2	M8 HD FLAT WASHER	M8 FLAT WASHER - High Tensile 19x8x1.9mm
2	M8 NYW	Washer, M8, Nylon
2	M8 NYLOC	NYLOC SELF LOCKING NUT, ST STL A2 ISO
4	M10 X 40	Bolt Hex, M10X40X1.5, GR8.8 ZP
4	M10X30X1.25	Bolt Hex, M10X30X1.25, GR8.8 ZP
4	M10X40X1.25	Bolt Hex, M10X40X1.25, GR8.8 ZP
2	M10X50X1.25	Bolt Hex, M10X50X1.25, GR8.8 ZP
2	M10X20 BHCS	SCREW, BUTTON HEAD CAP, M10X20X1.5 GR12.9 ZP
2	M10 Flat Washer	M10 FW
14	M10 FW LHD	WASHER, FLAT M10X28.5X2.5
6	M10 FLANGE NUT	Flange Nut, M10x1.5 G8.8 ZP
8	M12X30	Bolt Hex, M12X30x1.75, GR8.8 ZP
2	M12X40	Bolt Hex, M12X40X1.75, GR8.8 ZP
2	M12X125 GR10.9	Bolt Hex, M12X125x1.75, GR10.9 ZP
14	M12 FW LHD	M12 FW Large Heavy Duty
10	M12 FLANGE NUT	Flange Nut, M12x1.75 G8.8 ZP
2	M12 Nyloc nut	M12 NYLOC NUT

PREDATOR Antenna Mount Fasteners

Qty	Part Number	Description
1	M10X20 CAP SCREW	CAP SCREW, M10X20X1.5 GR10.9 ZP
1	M10 Flat Washer	M10 Flat Washer
1	M10 Spring Washer	M10 Spring Washer

TORO Fasteners – Contained in Small Parts Kit Bag

Qty	Part Number	Description
24	M6x16 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M6X16X1 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH
24	M6 FLAT WASHER BLACK ZINC	M6 Flat Washer, 12x6.1x1, ISO4042 ZnNi BLACK PASSIVATED FINISH
14	M6 FLANGE NUT	Flange Nut, M6x1 G8.8 ZP
2	M8 X 20 HEX	Bolt Hex, M8X20x1.25, GR8.8 ZP
2	M8 X 16 BHCS BZP	SCREW, BUTTON HEAD CAP, M8X16X1.25 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH
10	M8 X 25 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M8X25X1.25, ISO4042 ZnNi BLACK PASSIVATED FINISH
2	M8 FLAT WASHER	M8 FW
12	M8 FLAT WASHER- BLACK ZINC	M8 FLAT WASHER, 16.5x8.4x1.2, ISO4042 ZnNi BLACK PASSIVATED FINISH
2	M8 HD FLAT WASHER	M8 FLAT WASHER - High Tensile 19x8x1.9mm
2	M8 NYW	Washer, M8, Nylon
2	M8 NYLOC	NYLOC SELF LOCKING NUT, ST STL A2 ISO
4	M10 X 40	Bolt Hex, M10X40X1.5, GR8.8 ZP
4	M10X30X1.25	Bolt Hex, M10X30X1.25, GR8.8 ZP
4	M10X40X1.25	Bolt Hex, M10X40X1.25, GR8.8 ZP
2	M10X50X1.25	Bolt Hex, M10X50X1.25, GR8.8 ZP
2	M10X20 BHCS	SCREW, BUTTON HEAD CAP, M10X20X1.5 GR12.9 ZP
2	M10 Flat Washer	M10 FW
14	M10 FW LHD	WASHER, FLAT M10X28.5X2.5
6	M10 FLANGE NUT	Flange Nut, M10x1.5 G8.8 ZP
8	M12X30	Bolt Hex, M12X30x1.75, GR8.8 ZP
2	M12X40	Bolt Hex, M12X40X1.75, GR8.8 ZP
2	M12X125 GR10.9	Bolt Hex, M12X125x1.75, GR10.9 ZP
14	M12 FW LHD	M12 FW Large Heavy Duty
10	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 10-19mm	Electric/Air Impact Driver (Optional)	Cable Ties
Socket Extension Bar		Lifting Trolley (Optional)
Breaker Bar		
Metric Spanner Set 10-19mm		
Hex (Allen) Key Set 4-6mm		
Trim Removal Tool		
Flat Blade Screwdriver Set		
Phillips Head Screwdriver Set		

WORKSHOP SAFETY

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

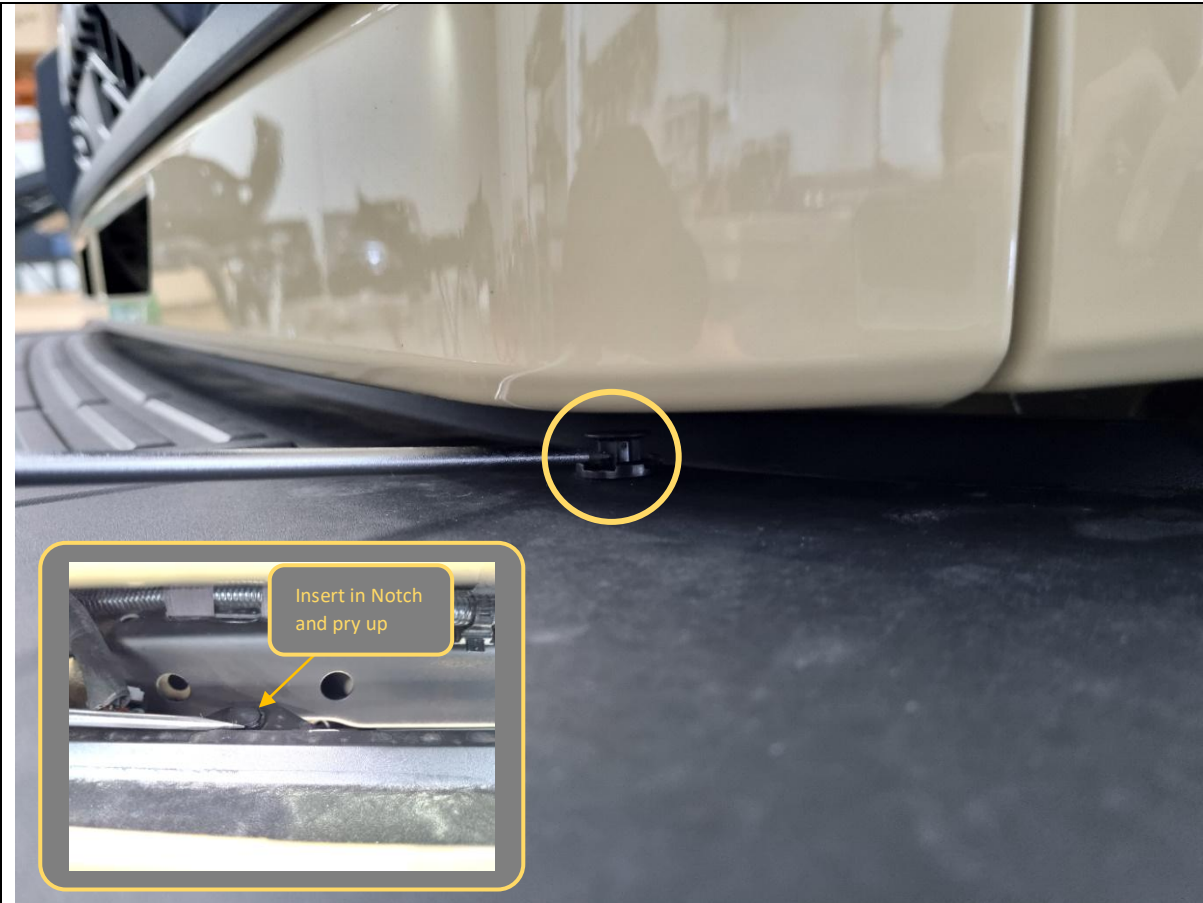
Hearing Protection 	Always wear ear protection when using power tools.
Eye Protection 	Ensure eye protection is always worn when cutting or drilling.
Manual Handling 	Do not attempt to lift bar assemblies or rock sliders on your own. Always use two people to lift or use mechanical Lifting aid such as hydraulic lifting trolley.
Vehicle Support 	Always ensure vehicle is properly supported when working on it. Do not attempt to fit products whilst suspension work is being carried out. Do not work under a vehicle supported only by a jack.



1. Remove the number plate and set aside.	TOOLS REQUIRED
	FASTENERS



2. Remove 1x 10mm hex nut on the outer tip of the plastic bumper, per side.	TOOLS REQUIRED 10mm socket/spanner
	FASTENERS 2x 10mm factory hex nuts



3. Remove 5x plastic push clips along the top of the plastic bumper. 3x of them are found through the opening in the grille fascia.	TOOLS REQUIRED Trim tool Or Flat blade screwdriver
	FASTENERS 5x plastic push clips



4. Remove 4x 10mm hex bolts along the underside of the plastic bumper.

TOOLS REQUIRED

10mm socket/spanner

FASTENERS

4x 10mm factory hex bolts



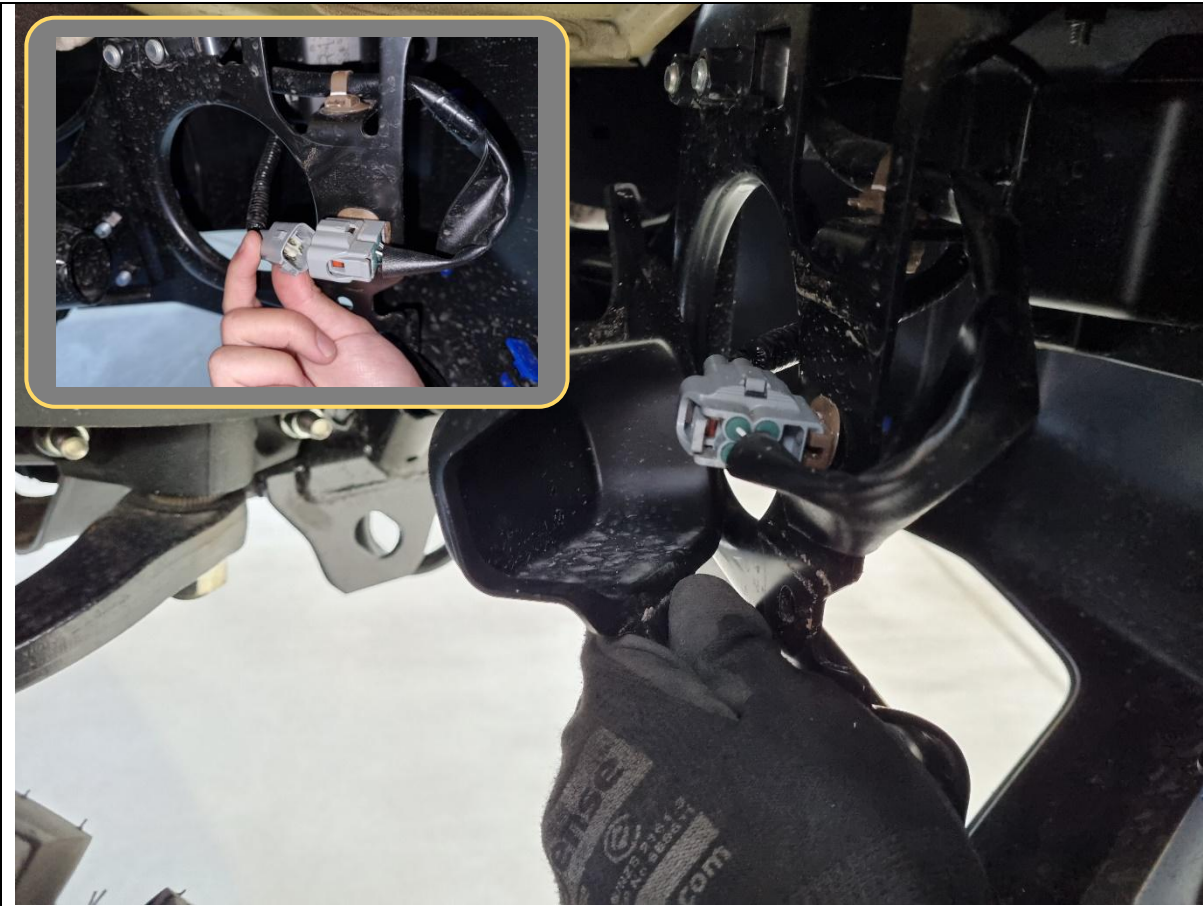
5. On the inside RH driver side wheel well, remove 1x plastic push clip holding the plastic cover for the bumper harness plug.

TOOLS REQUIRED

Trim tool
or
Flat blade screwdriver

FASTENERS

1x plastic push clips



6. Remove the plastic cover, then unplug the bumper harness.	TOOLS REQUIRED
	FASTENERS



7. The bumper is now fully loose. Pull outwards and remove from vehicle.	TOOLS REQUIRED
	FASTENERS



8. Remove the 4x 14mm hex bolts on the metal top panel.

TOOLS REQUIRED

14mm socket/spanner

FASTENERS

4x 14mm factory hex bolts



9. Remove 1x 12mm hex nut on the bottom of the metal top panel, per side.	TOOLS REQUIRED 12mm socket/spanner
	FASTENERS 2x 12mm factory hex nuts



10. Remove 2x 12mm hex bolts on the metal top panel near the headlight, per side.

11. Fully remove the metal top panel.

TOOLS REQUIRED

12mm socket/spanner

FASTENERS

4x 12mm factory hex bolts



12. Remove 2x 17mm hex bolts and nuts holding the metal top panel supports, per side.

Retain these bolts if fitting on single cab vehicle.

13. Remove both metal top panel supports.

TOOLS REQUIRED

17mm socket/spanner

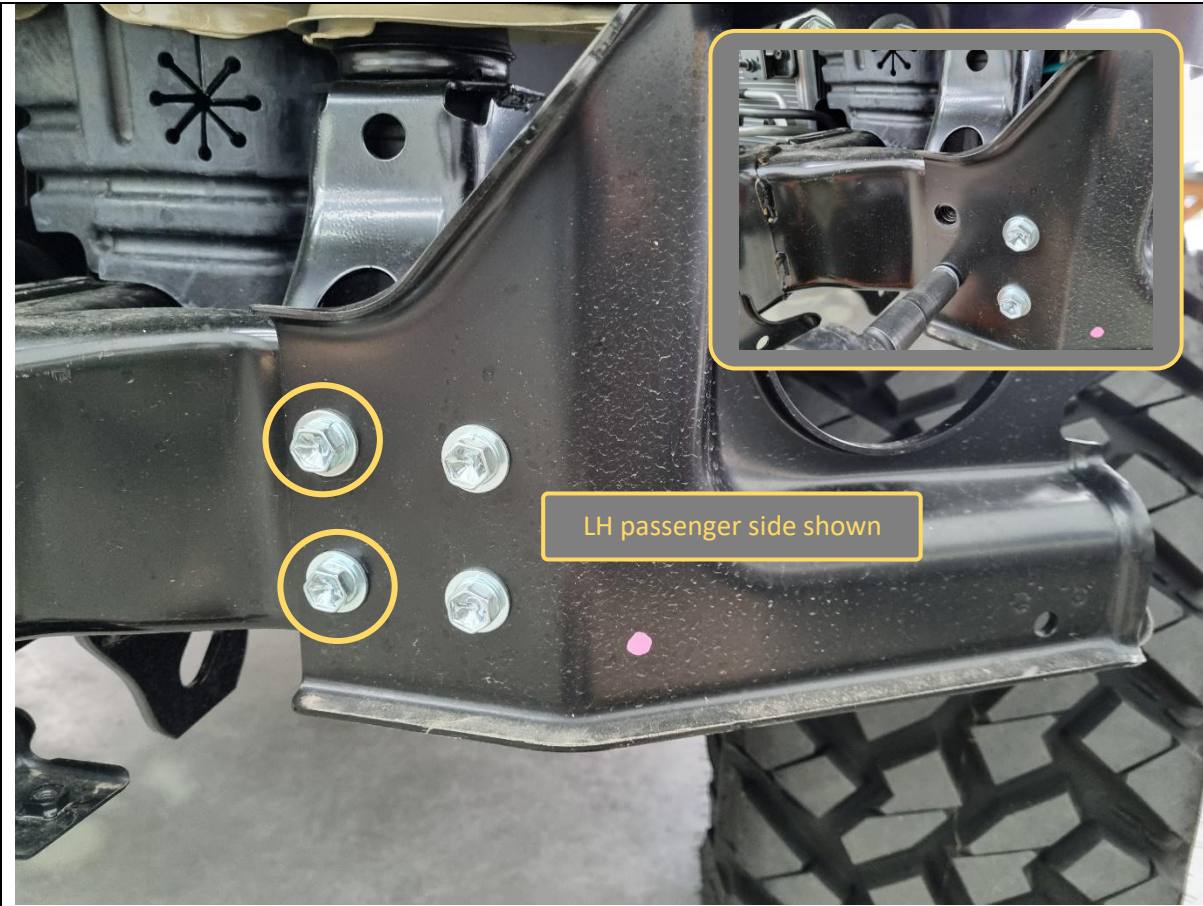
FASTENERS

4x factory 17mm hex bolts and nuts

Retain for single cab vehicles



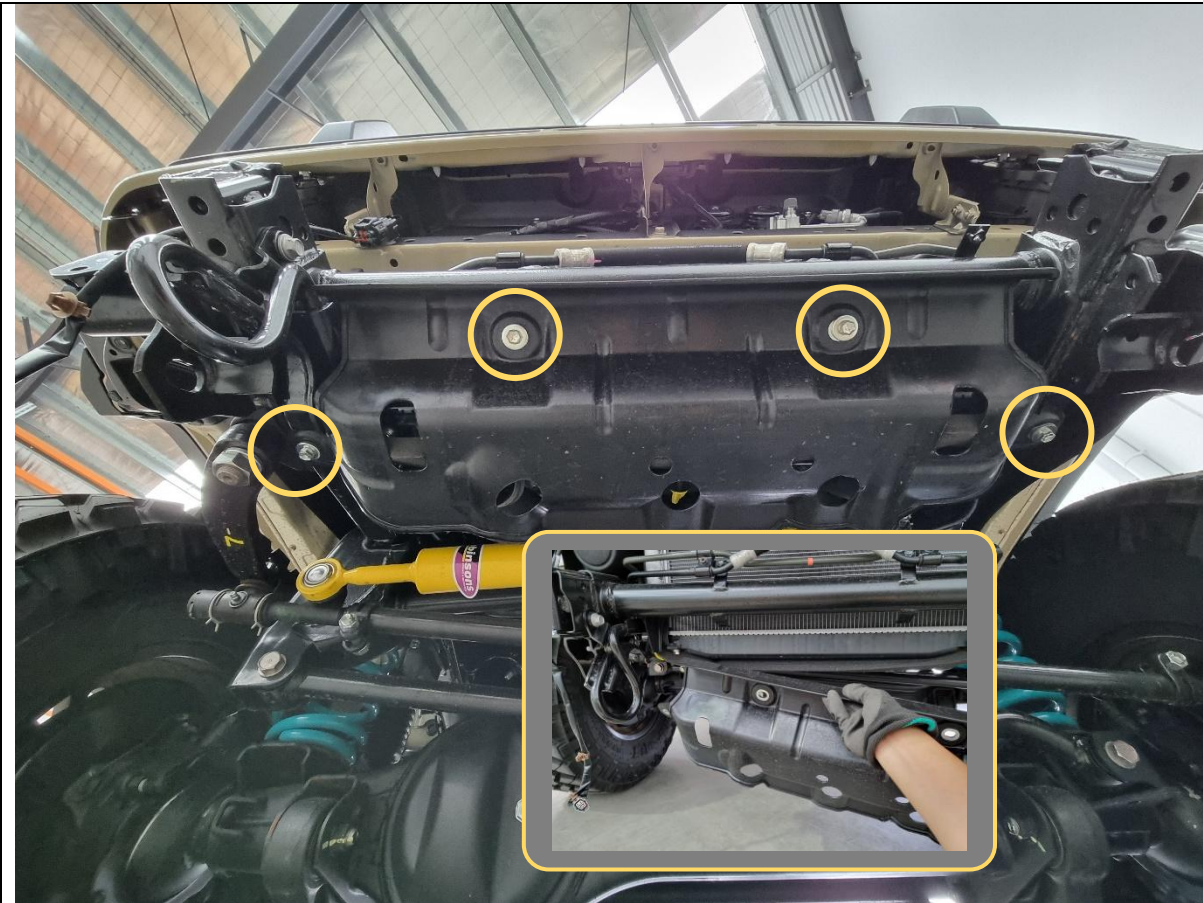
14. Unclip the bumper harness from the main impact bar.	TOOLS REQUIRED Trim tool or Flat blade screwdriver
	FASTENERS



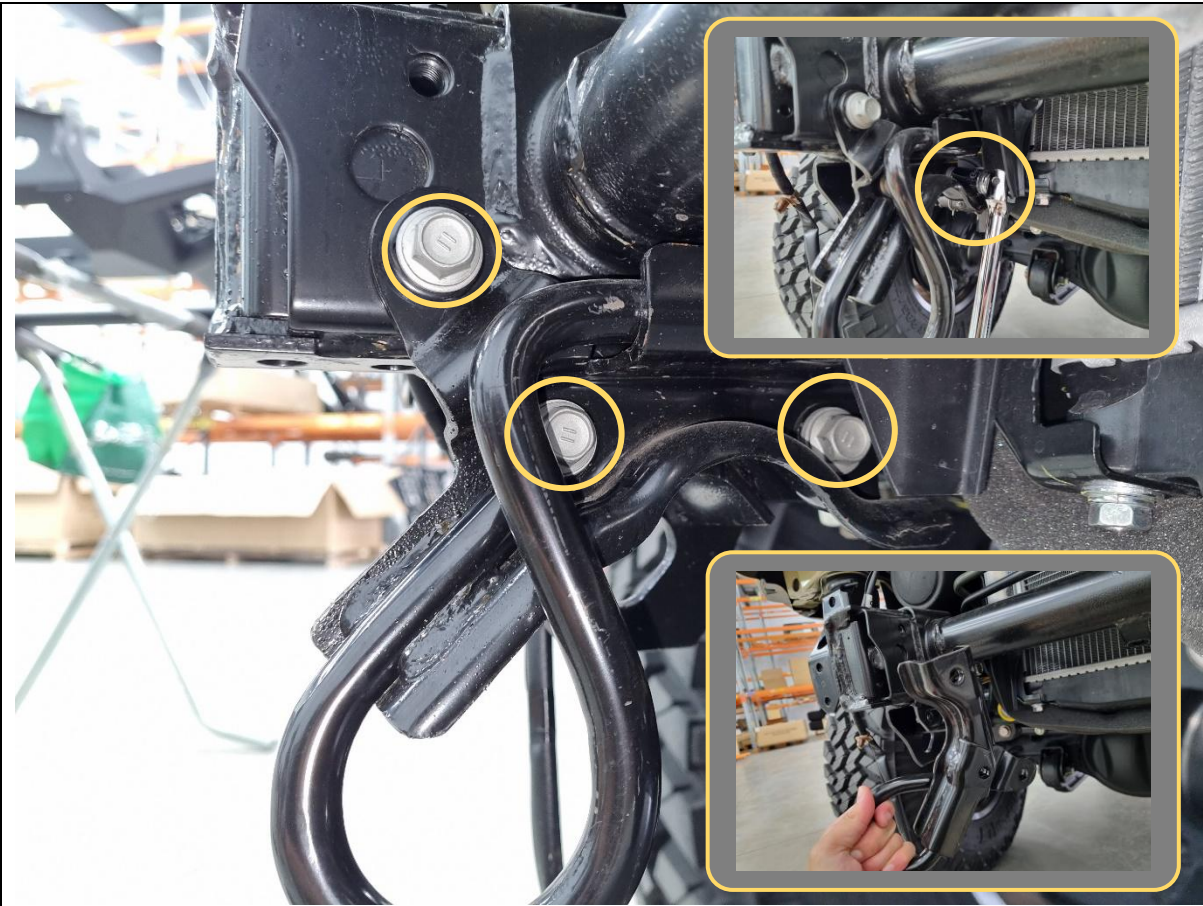
15. Remove the 2x 14mm hex bolts on the outer ends of the main impact bar, closest to the chassis rails (i.e. middle of the car). 16. Repeat on other side.	TOOLS REQUIRED 14mm socket/spanner
	FASTENERS 4x 14mm factory hex bolts



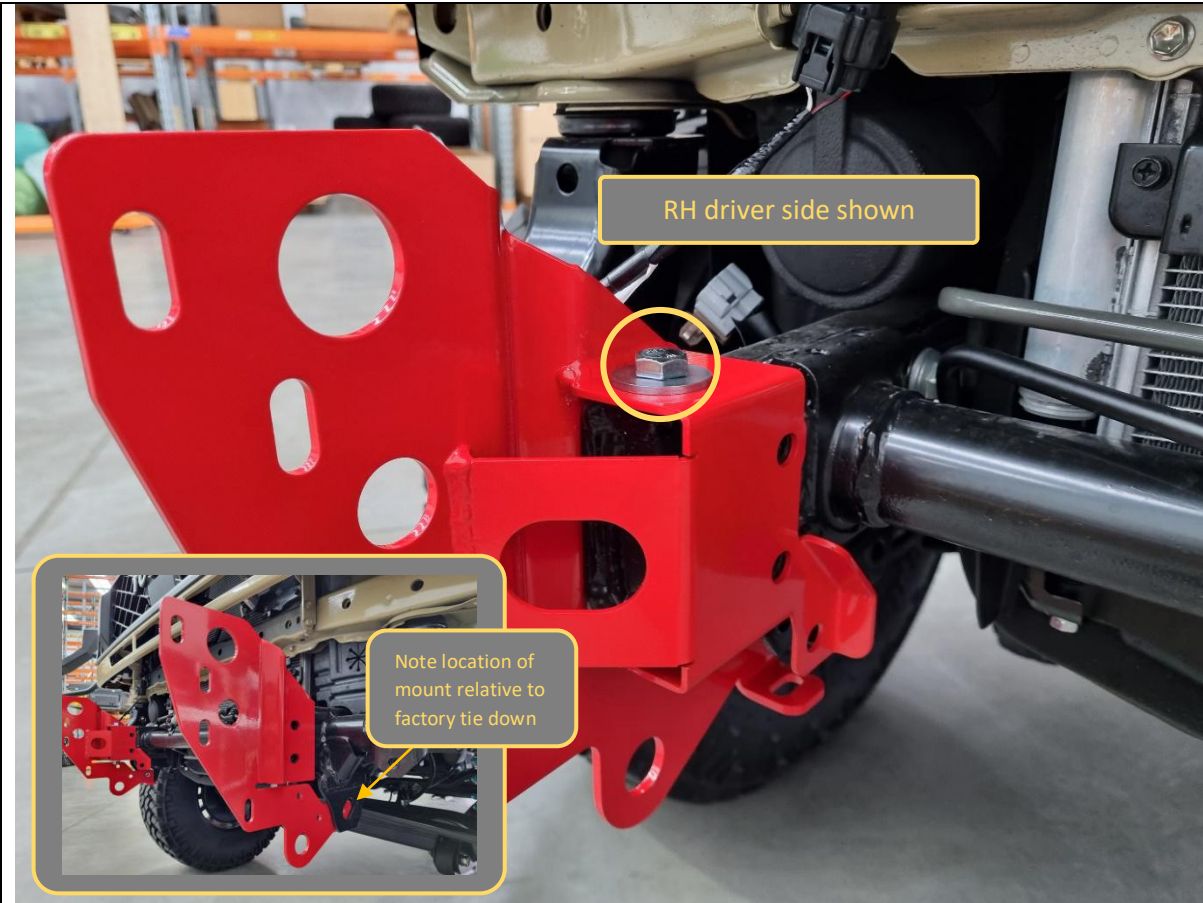
17. Remove the main impact bar from the vehicle.	TOOLS REQUIRED
	FASTENERS



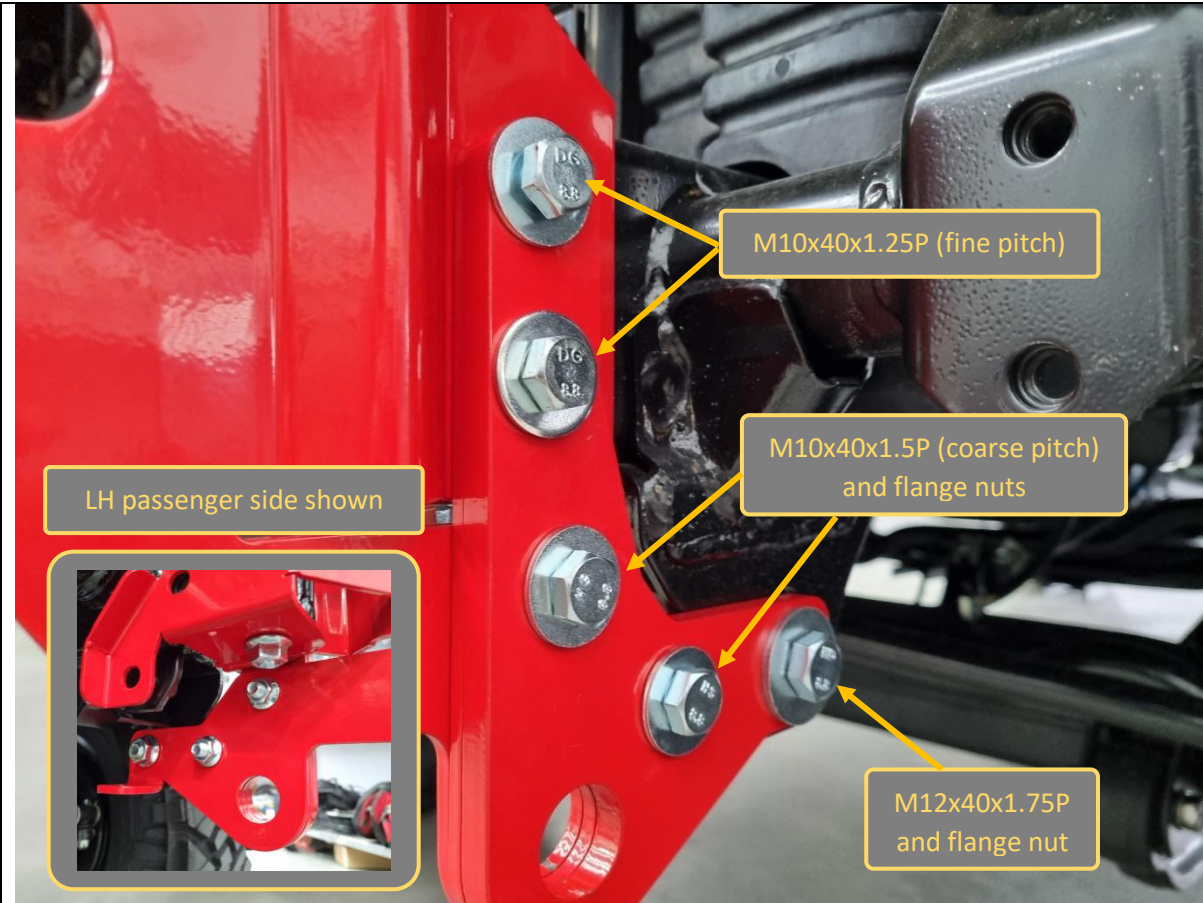
18. Remove the 4x 12mm hex bolts holding the plastic splash shield. 19. Remove the plastic splash shield.	TOOLS REQUIRED 12mm socket/spanner
	FASTENERS 4x 12mm factory hex bolts



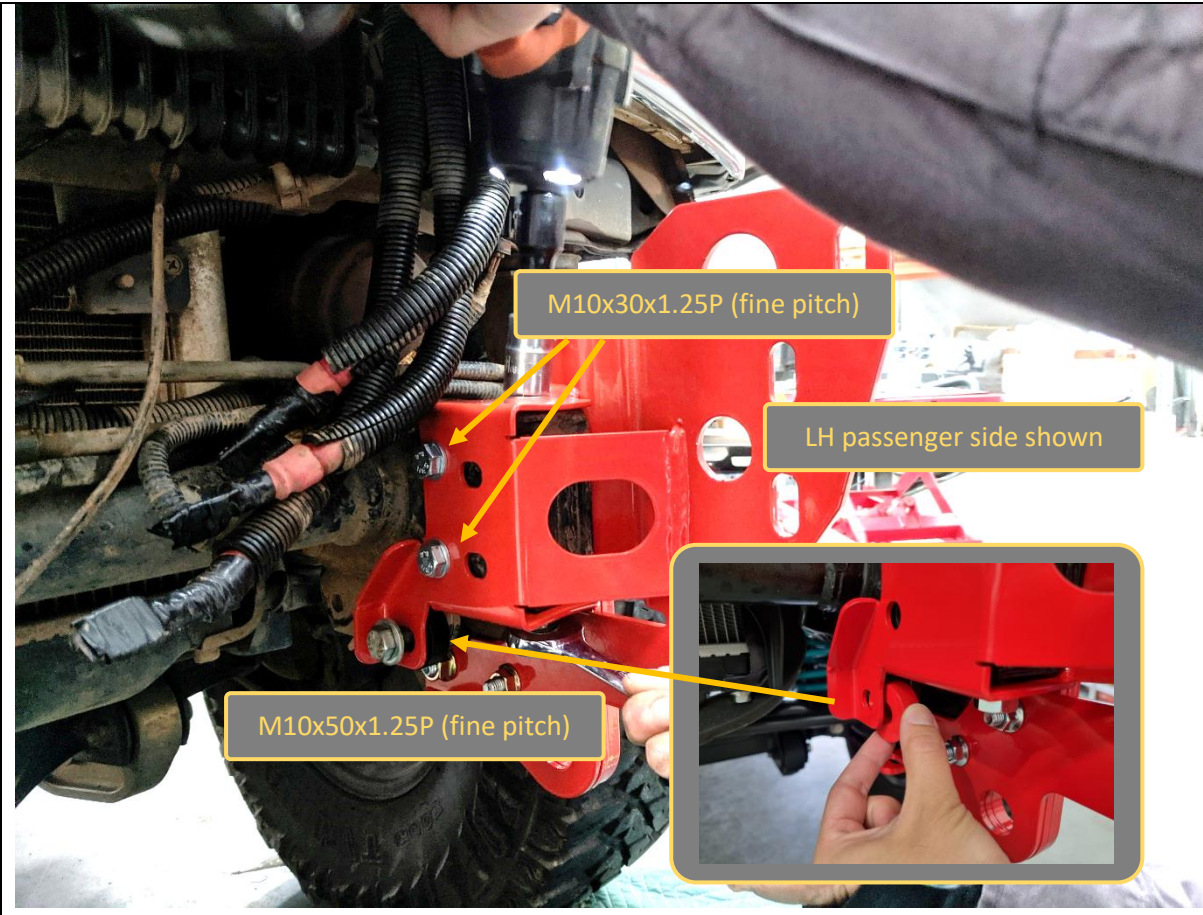
20. Remove the 3x 14mm hex bolts holding the factory tow hook. Note: Use a breaker bar or long spanner for rear most bolt.	TOOLS REQUIRED 14mm socket/spanner Breaker bar
	FASTENERS 3x 14mm factory hex bolts



21. Fit the impact assembly to the end of the chassis rail. If fitting to a single cab vehicle, refer to FB-TLC-70-17-PR-ASM4 single cab mount instructions and proceed to Step 32 once installed. 22. Insert 1x M12x125 hex bolt and heavy duty washer through the top of the mount and secure with 1x M12 flange nut. Leave finger tight at this stage. 23. Repeat for other side.	TOOLS REQUIRED
	FASTENERS 2x M12x125 hex bolt 2x M12 heavy duty washer 2x M12 flange nut



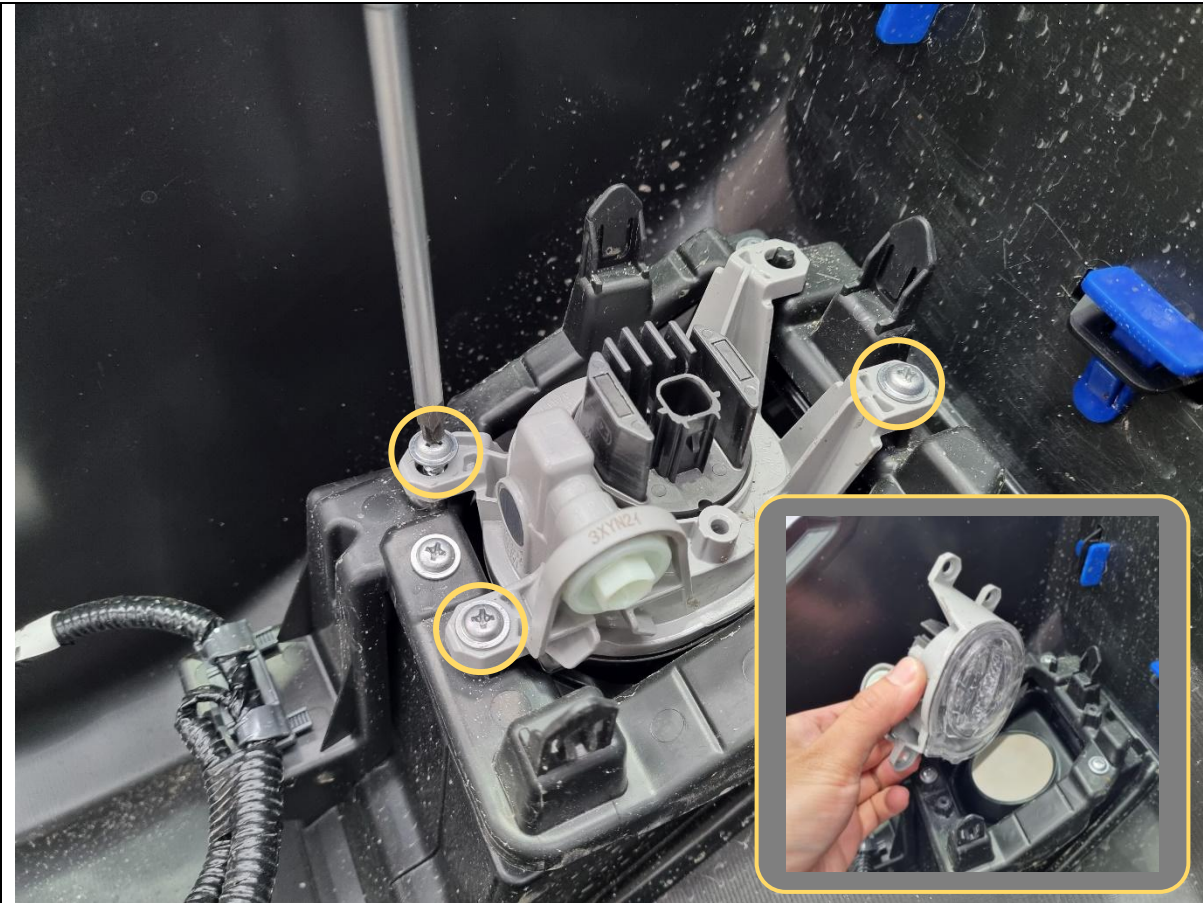
24. Align P-0080 tow spacer plate and P-0081 tow outer plate onto the outside of the impact assembly. 25. Loosely secure to the chassis with 2x M10x40x1.25P (fine pitch) bolts and heavy duty washers. Take care not to cross thread the nuts in the chassis. 26. Loosely secure to the impact assembly with 2x M10x40x1.5P (coarse pitch) bolts, heavy duty washers and flange nuts. 27. Loosely secure to the impact assembly with 1x M12x40x1.75P bolt, heavy duty washer and flange nut. 28. Repeat for other side.	TOOLS REQUIRED 16/17/18/19mm socket/spanner
	FASTENERS 4x M10x40x1.25P (fine pitch) bolts 4x M10x40x1.5P (coarse pitch) bolts 8x M10 heavy duty washers 4x M10 flange nuts 2x M12x40x1.75P bolts 2x M12 heavy duty washers 2x M12 flange nuts



29. Loosely secure the inside of the impact assembly to the chassis with 2x M10x30x1.25P (fine pitch) bolts and heavy duty washers. Again, take care not to cross thread the nuts in the chassis. 30. Insert 1x P-0024 tow point spacer between the inside rear hole of the impact assembly and chassis. 31. Loosely secure to the chassis with 1x M10x50x1.25P (fine pitch) bolt and heavy duty washer. Take care not to cross thread the nut in the chassis. 32. Repeat for the other side. Important: Leave mounts loose until after the bullbar is fitted to the vehicle.	TOOLS REQUIRED 16/17/18/19mm socket spanner
	FASTENERS 4x M10x30x1.25P (fine pitch) bolts 2x M10x50x1.25P (fine pitch) bolts 6x M10 heavy duty washers 2x P-0024 tow point spacers



33. Prepare the bumper for stripping fog light and loom (if equipped, otherwise skip to Step 43) 34. Unclip the plastic covers on the inside of the bumper to reveal the fog lights. 35. Unplug the fog lights.	TOOLS REQUIRED
	FASTENERS



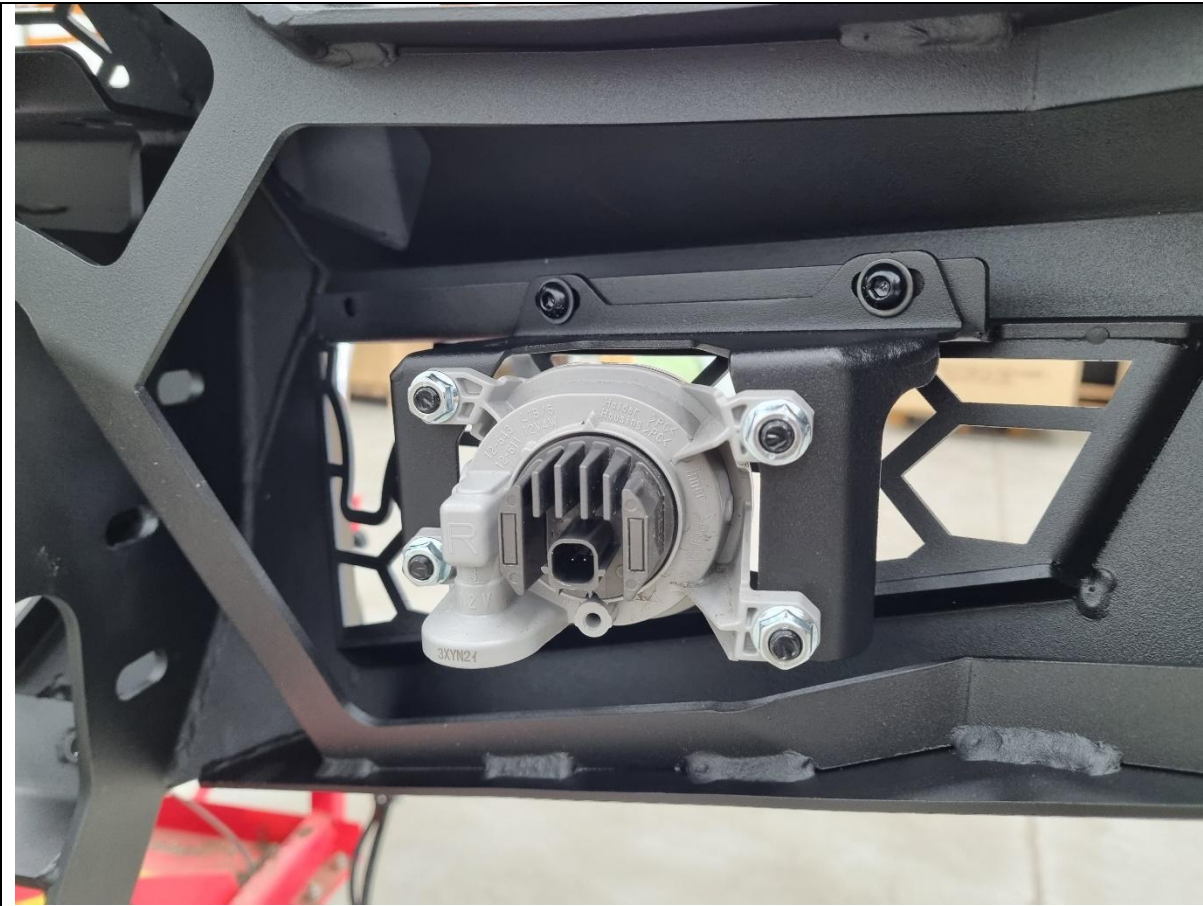
36. Remove 3x Phillips head screws holding each fog light and set aside.	TOOLS REQUIRED Phillips head screwdriver
	FASTENERS 8x factory Phillips head screws



37. Unclip the loom from the bumper.	TOOLS REQUIRED Trim tool or Flat blade screwdriver
	FASTENERS



38. Fit the pair of fog lights to the supplied fog light brackets as shown. 39. Secure with 4x M6x16 black button head bolts, black flat washers and flange nuts, each.	TOOLS REQUIRED 4mm hex/Allen key
	FASTENERS 8x M6x16 black button heads 8x M6 black flat washers 8x M6 flange nuts



40. Fit the fog light and bracket to the inside of the bullbar and secure with 2x M6x16 black button head bolts and black flat washers, each. Note: There is an arrow marking on the fog light bracket which should be facing the forward direction of travel when installed correctly.	TOOLS REQUIRED 4mm hex/Allen key
	FASTENERS 2x M6x16 black button heads 2x M6 black flat washers



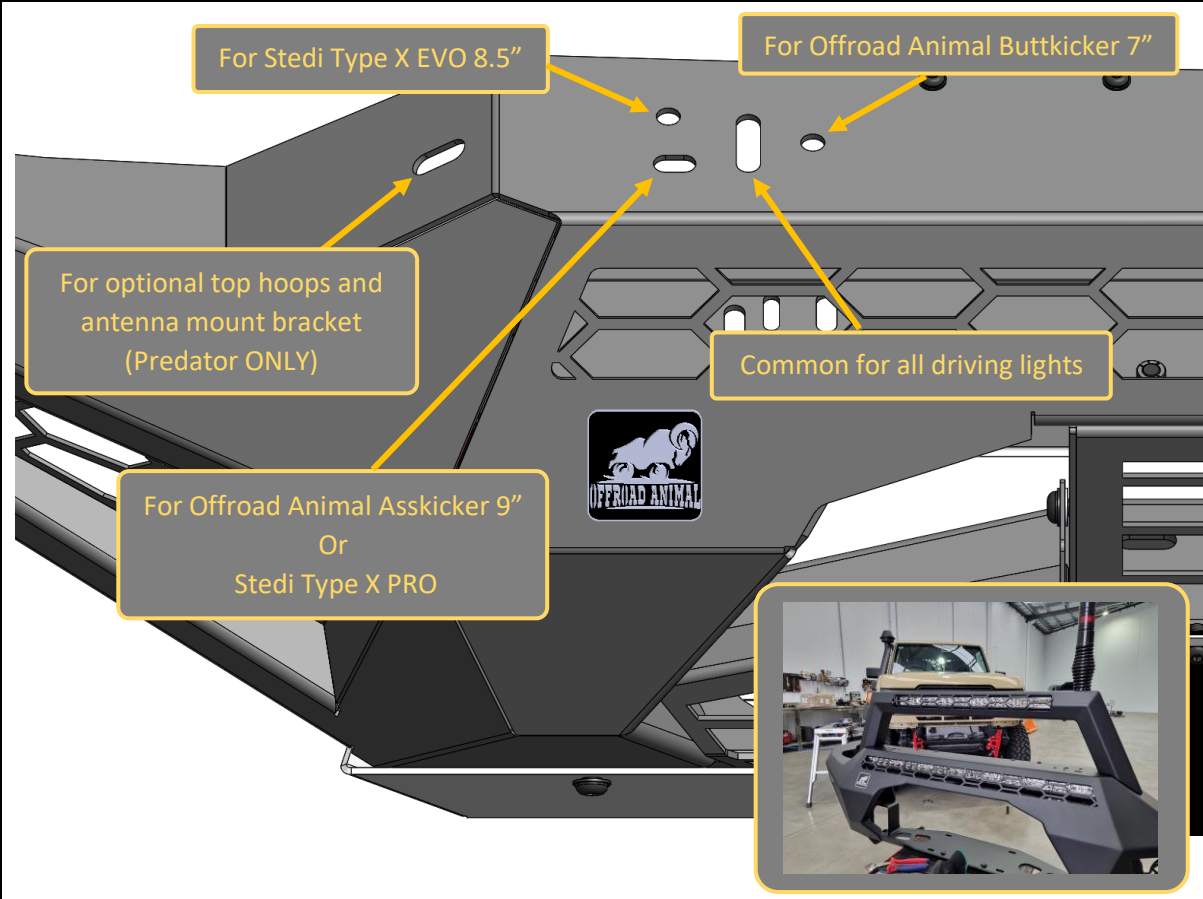
41. Route and fit the factory loom through the bullbar. Note that the plug connecting back to the vehicle should be on the RH driver side (or same side it was removed from). 42. Connect fog lights back to the loom.	TOOLS REQUIRED
	FASTENERS



43. If not fitting factory fog lights, there is the option to fit Offroad Animal Halo Fog Lights (part no. ORA-ALO-M-2) with B-1185 mounting brackets (purchased separately), or fit 8" light bars or cube lights using the supplied B-1169 universal wing mesh light brackets (shown).	TOOLS REQUIRED 4mm hex/Allen Key
	FASTENERS 4x M6x16 black button head 4x M6 black washer 4x M6 flange nut



44. If fitting an integrated light bar, do so now. This bar is designed to fit the Offroad Animal 32-inch light bar. If fitting this light bar, assemble the light bar with legs facing inwards, and line it up with the slots in the centre gusset. Secure with M6 fasteners supplied with the light. This bar can also accommodate most other “30-32inch” size light bars (eg. Stedi ST3K 31.5” with legs facing outwards), as well as 20-22” light bars. 45. Fit 2x pan braces to the back of the bar (see inset) using 8x M6x16 black button head bolts, flat washers and flange nuts. 46. Tidy up the wiring harness and other looms with cable ties on the inside of the bar.	TOOLS REQUIRED 4mm hex/Allen key Supplied with light bar
	FASTENERS 8x M6x16 black button head 8x M6 black flat washer 4x M6 flange nut Supplied with light bar

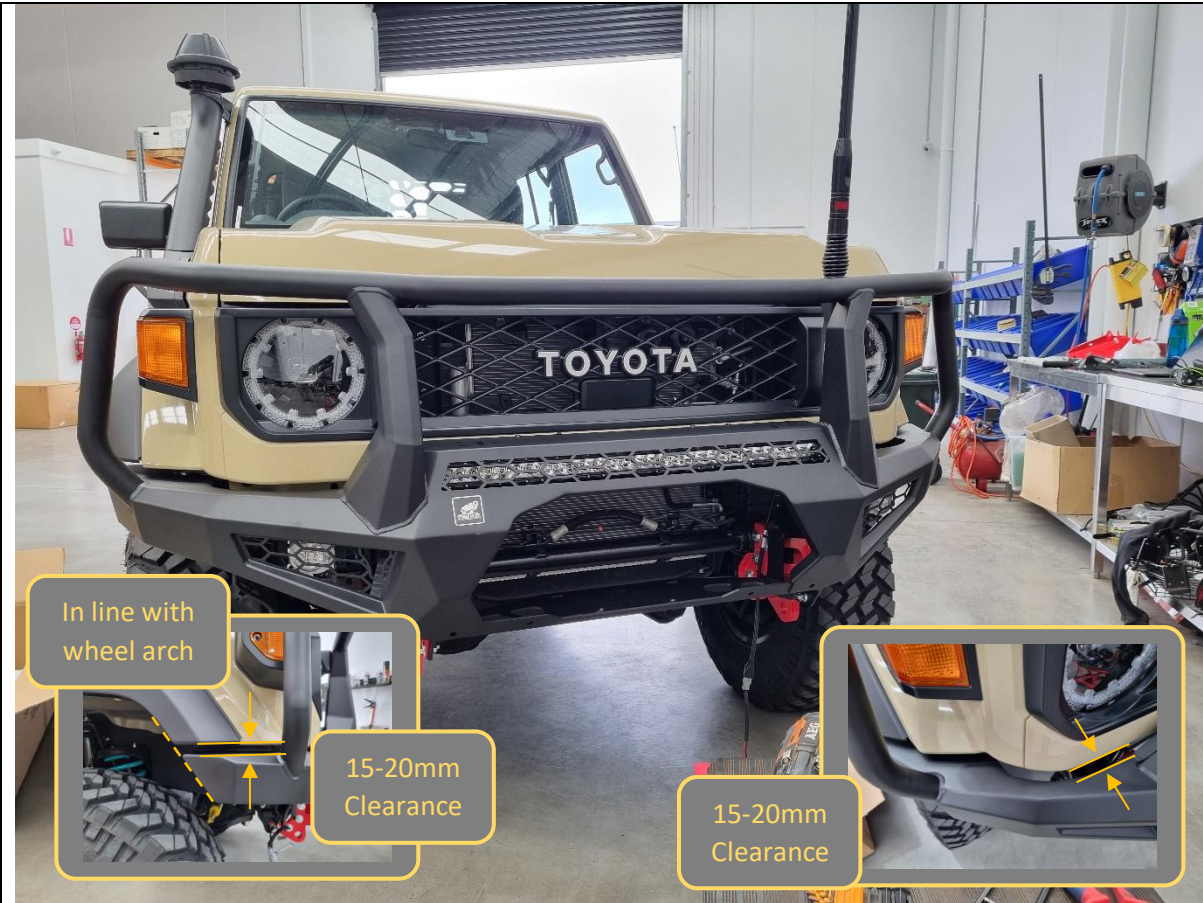
	
47. If fitting driving lights or top hoop to this bar, this is also the most convenient time to do so. It is still possible later but is more difficult. 48. Refer to diagram above for which mounting holes to use. This is important to not obstruct the view of the Autonomous Emergency Braking (AEB) radar located behind the Toyota badge in the grille.	TOOLS REQUIRED
	FASTENERS



49. Predator only. If wishing to mount an antenna and a Stealth/Round Hoop is not being used, you can mount the antenna to the Predator antenna mount bracket. 50. Predator only. Bolt the antenna with bracket to the slot on the angled face of the bar, and secure from the inside using 1x M10x20 cap screw, spring washer and flat washer. This is the most convenient time to do so. It is still possible later but is more difficult. The antenna bracket is reversible and can be mounted on the side of your choice.	TOOLS REQUIRED 6mm hex/Allen key
	FASTENERS 1x M10x20 cap screw 1x M10 spring washer 1x M10 flat washer



51. With assistance, either from another person, or a lifting trolley, lift the bar onto the mounts on the vehicle. 52. Secure the bar to the mounts with 8x M12x30 Bolts, heavy duty washers and M12 Nyloc + flange nuts. Leave finger tight at this stage. Note: Use a washer on both bolt and nut side for the Nyloc nut. 1x washer on the bolt side is all that is required with flange nuts. 1x Nyloc required per side of the bar. 53. Important: Fully tighten all impact assembly bolts (Steps 22-32) once bullbar is fitted to the vehicle.	TOOLS REQUIRED Lifting trolley 16/17/18/19mm socket/spanner
	FASTENERS 8x M12x30 hex bolt 10x M12 heavy duty washer 2x M12 Nyloc nut 6x M12 flange nut



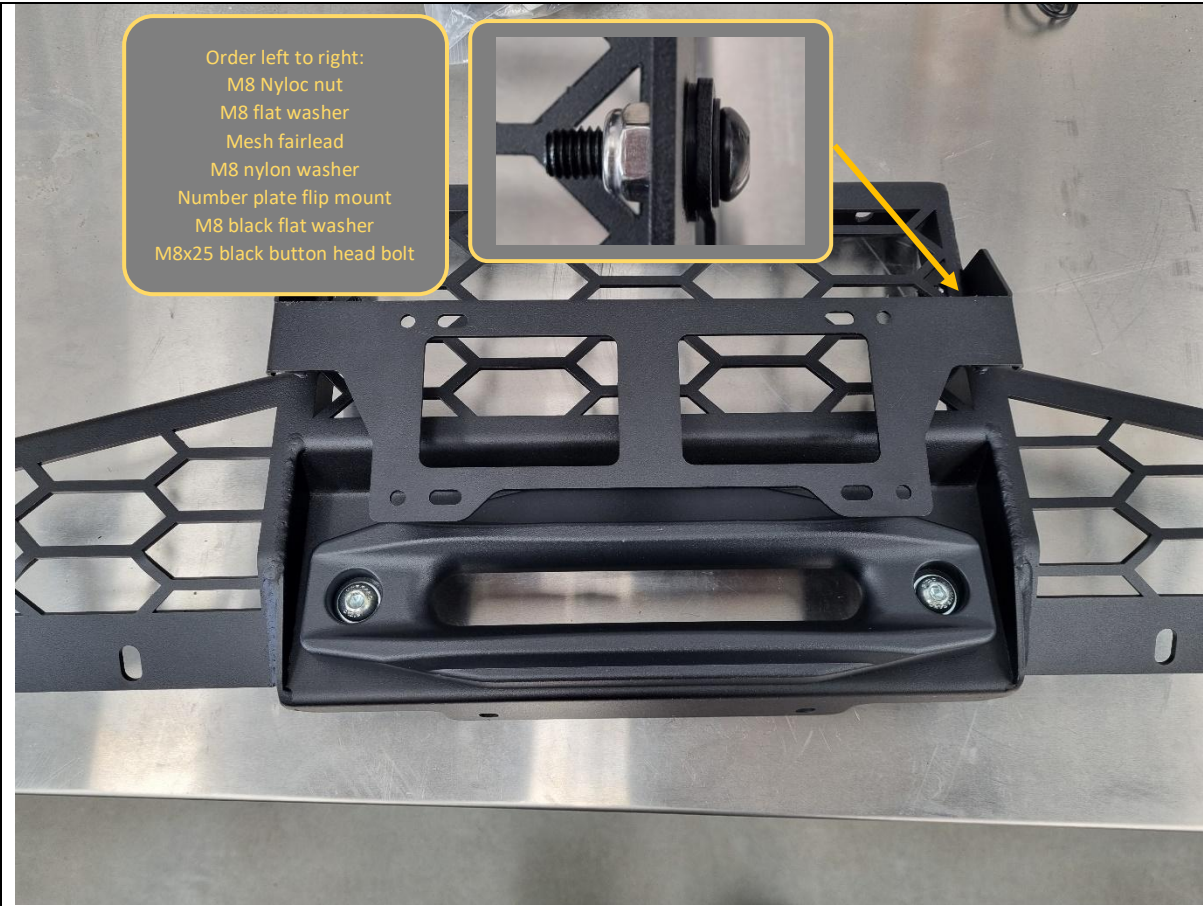
54. With assistance, from another person, align the bar with the edges of the vehicle. The bar should sit symmetric left/right on the vehicle. In front/side view, the top face of the wings of the bar should sit parallel with the bottom edge of the flares/quarter panel, with about 15-20mm vertical clearance. In side view, the end of the bar wing should be in line with the wheel arch liner. In top view, there should be 15-20mm clearance between the bar and grille. 55. Once happy with alignment, tighten all 8x M12 bolts.	TOOLS REQUIRED 18/19mm socket/spanner FASTENERS
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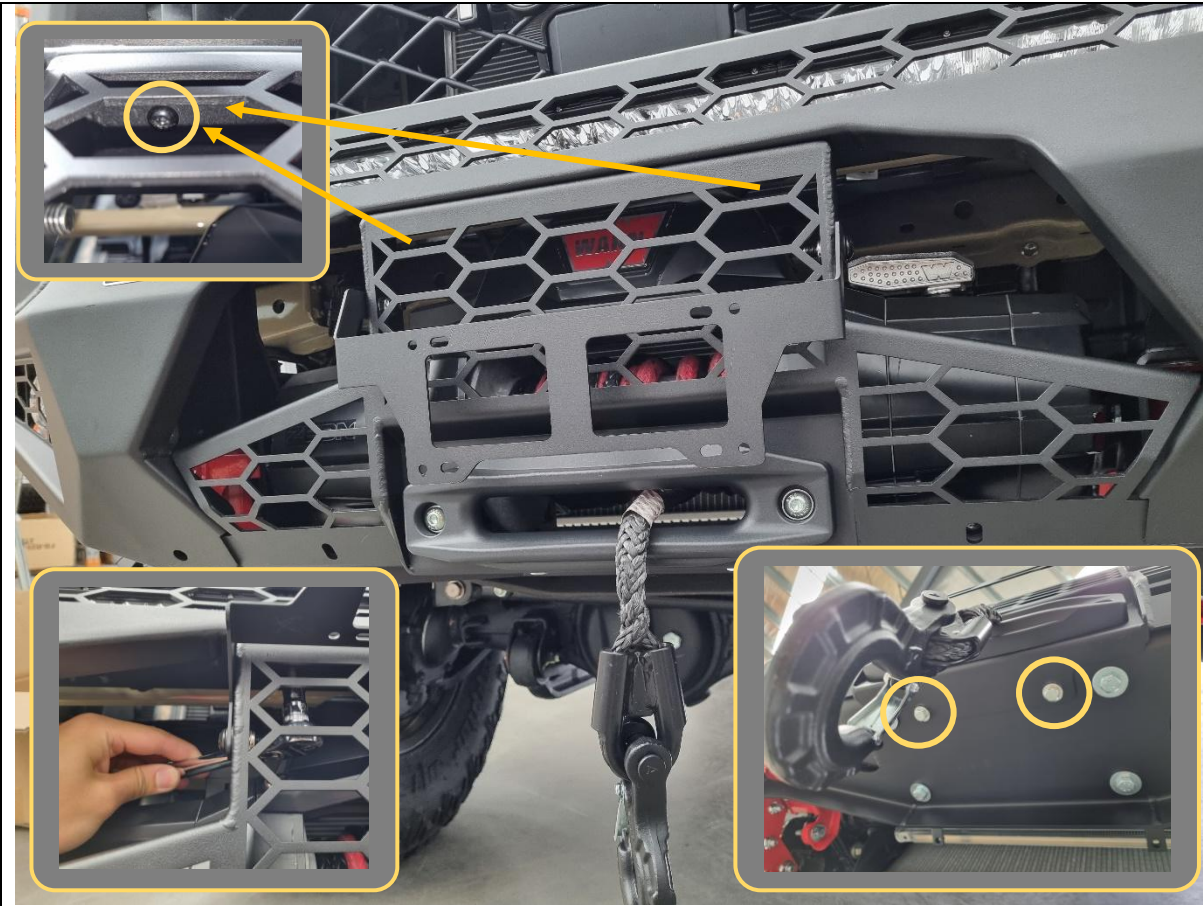
56. Reconnect the fog light and bumper loom to the vehicle.	TOOLS REQUIRED
	FASTENERS



57. If fitting a winch, do so now. 58. This bar is designed to fit most low mount winches, in foot down configuration. WARN ZEON 12 is the largest winch confirmed to fit. 59. Ensure clutch handle will be accessible through opening in front mesh panel. Refer to winch instructions regarding changing clutch handle location.	TOOLS REQUIRED Refer to instructions supplied by winch
	FASTENERS Supplied with winch



60. If required, fit the winch fairlead to the mesh fairlead mount using M10 or 3/8" fasteners supplied with the winch. This bar is only compatible with hawse type fairleads. 61. Fit number plate flip mount to mesh panel as shown above. Tighten bolts so that flip mount and can be moved by hand with some friction resistance.	TOOLS REQUIRED 5mm hex/Allen key 13mm socket/spanner
	FASTENERS 2x M8x25 black button head 2x M8 black flat washer 2x M8 nylon washer 2x M8 flat washer 2x M8 flange nut



62. If applicable, hold the mesh fairlead mount up near the bar and feed the winch rope through the hawse fairlead. 63. Fit the mesh fairlead mount to the centre of the bar, using 2x M8x16 black button head bolts (top, reach around from behind to access, see LH bottom photo), 2x M8x20 hex head bolts (bottom) and 4x flat washers. 64. Tighten fasteners using 13mm socket/spanner and 5mm hex/Allen key.	TOOLS REQUIRED 13mm socket/spanner 5mm hex/Allen key
	FASTENERS 2x M8x16 black button head 2x M8 black flat washer 2x M8x20 hex head 2x M8 flat washer



65. Fit the centre bash plate to the bar using 4x M8x25 black button bolts and flat washers. 66. Secure the back of the centre bash plate to the impact assembly using 2x M10x20 button head bolts, flat washers and flange nuts.	TOOLS REQUIRED 5mm hex/Allen key 6mm hex/Allen key
	FASTENERS 4x M8x25 black button head 4x M8 black flat washer 2x M10x25 button head bolt 2x M10 flat washer 2x M10 flange nut



67. Fit number plate back to the flip mount using 2x M6x16 black button head bolts, black flat washers and flange nuts. 68. Affix ADR compliance plate sticker label in a visible spot on the bash plate (see inset photo).	TOOLS REQUIRED 4mm hex/Allen key
	FASTENERS 2x M6x16 black button head 2x M6 black flat washer 2x M6 flange nut



69. Toro only. If required, fit the supplied antenna mounting brackets to the back of the bar, and secure with 2x M8x25 black button head bolts and black washers, each. 70. Toro only. Else fit the 2x M8x25 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/Allen key
71. Review fitment and double check all bolts are tightened correctly.	FASTENERS M8x25 black button head M8 flat washer



Congratulations! You're done!
Go do that lap of Australia in your newly protected 70 series!