



TOYOTA HILUX
BULL BAR N90
SR, SR5, MY26ON
TCC-N90-FB-MY26ON



IMPORTANT – PLEASE READ FIRST

- This product requires a moderate level of fitting ability. Inexperienced installers may find this task difficult.
- The product must be installed in accordance with these instructions and the hardware supplied. If you believe a part is missing please contact our sales team
- If you're unsure about a step please contact our technical support team by completing a form via the QR code or via email.
- The installation may require specialized tools and or techniques, please review the specified tools and ensure you have access to general workshop equipment and supplies.
- This product shall not be used with any other vehicle, make or model apart from specified in these instructions.
- The installer should ensure correct fitment on the vehicle and adequate clearances.
- To ensure the longevity of the product the care and maintenance instructions must be followed.
- We recommend you lubricate any joints or seams with lanolin or a similar product
- Torque specifications for this product = M5 – 6Nm, M6 – 9Nm, M12 – 77Nm

CARE AND MAINTENANCE

- Ensure all components are properly adjusted and aligned during installation.
- **Torque all bolts and recheck after the first 1,000 km, then every 10,000 km.**
- Avoid exposure to salt water or salty environments.
- Do not clean with harsh chemicals.
- Do not overload the product or use it outside its intended purpose.

1. PREPARING FOR INSTALL

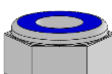
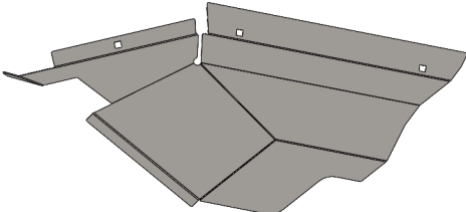
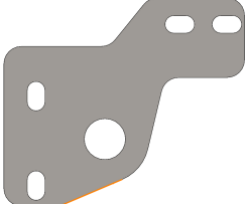
1.1 REQUIRED TOOLS AND SAFETY

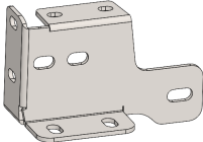
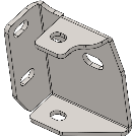
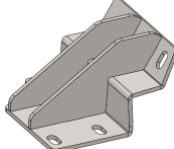
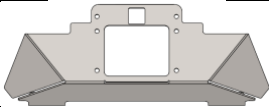
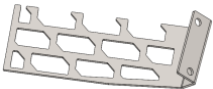
Ensure tools and equipment are ready

Tools	• Allen key set • Spanner set • Socket set • 12V wiring tools (soldering iron, solder, heat shrink , wire stripper, terminal connectors x 2 pairs, electrical tape, 2m 3mm automotive electrical twin core cable) • Automotive trim tool • Steel ruler • Marker pen or pencil • Stanley knife • Multitool • Chisel and hammer • File or sandpaper (Clean bumper cut edge)
Materials	• Double sided tape or adhesive • Masking tape (Optional) • Black spray paint • Loctite • WD-40

SAFETY		
		
Hearing protection	Protective eyewear	Manual Handling
When using power tools hearing protection should be used, when cutting or drilling ensure eye protection is used. Ensure sufficient help when lifting barwork. Every attempt has been made to ensure powder coated and raw finish components are free of burrs and sharp edges, however handling parts with care is recommended.		

Check all parts are present before commencing installation

PARTS LIST				
APPLICATION	PART NUMBER	DESCRIPTION	QYT	IMAGE
BULL BAR TO VEHICLE	M10 X 35 X 1.5 BOLT	ZINC	20	
	M10 WASHER	28X10.9X2.8 GOLD ZINC	40	
	M10 NYLOC NUT	ZINC	20	
	M12 X 35 X 1.25 BOLT	ZINC	4	
	½ X 1-3/8 WASHER	HT GOLD ZINC	4	
	M14 X 1.5 X 110 BOLT	ZINC	4	
	M14 X 30 X 1.5 BOLT	ZINC	4	
	M14 NYLOC NUT	ZINC	8	
	M14 WASHER	26 X 14.3 X 3.2 ZINC	16	
	SHIM 10 PACK	LC200 ADJUSTMENT SHIMS	1	
PARTS LIST	FBUNI-001	UNDERTRAY BOLT KIT	1	
	UDN90 UT	N90 UNDDERTRAY	1L & 1R	
	PROD N90 RECOVERY POINT	10MM P/C BLACK	2	

	PROD N90 CHASS BRAC OUTER	OUTER CHASSIS BRACE	1L &1R	
	PROD N90 CHASS BRAC INNER	INNER CHASSIS BRACE	1L & 1R	
	PROD N90 CHSS BRAC TOP	TOP CHSSIS BRACE WELDMENT	1L & 1R	
PARTS TO BAR	N90 RADAR COVER	RADAR COVER	1	
	N90 CAMERA BAR MNT	BRACKET	1	
	PROD N90 RADAR COVER	BLACK PLASTIC	1	
	N90 FOG GRILLE	FOR GRILLE	1L & 1R	
	M5 NYLOC NUT	ZINC	10	
	M5 X 16 BUTTON HEAD	ZINC	4	
	M5 X 25 BUTTON HEAD	SS BLACK	6	
	M5 WASHER	10.2 X 5.5 X 1.1	14	
	M6 NYLOC NUT	ZINC	14	
	M6 X 16 BUTTON HEAD	ZINC	14	
	M6 WASHER	12.2 X 6.5 X 1.2	20	
MISC	PINCH WELD	10 X 15 1000M LONG	1	

1. PREPARE VEHICLE

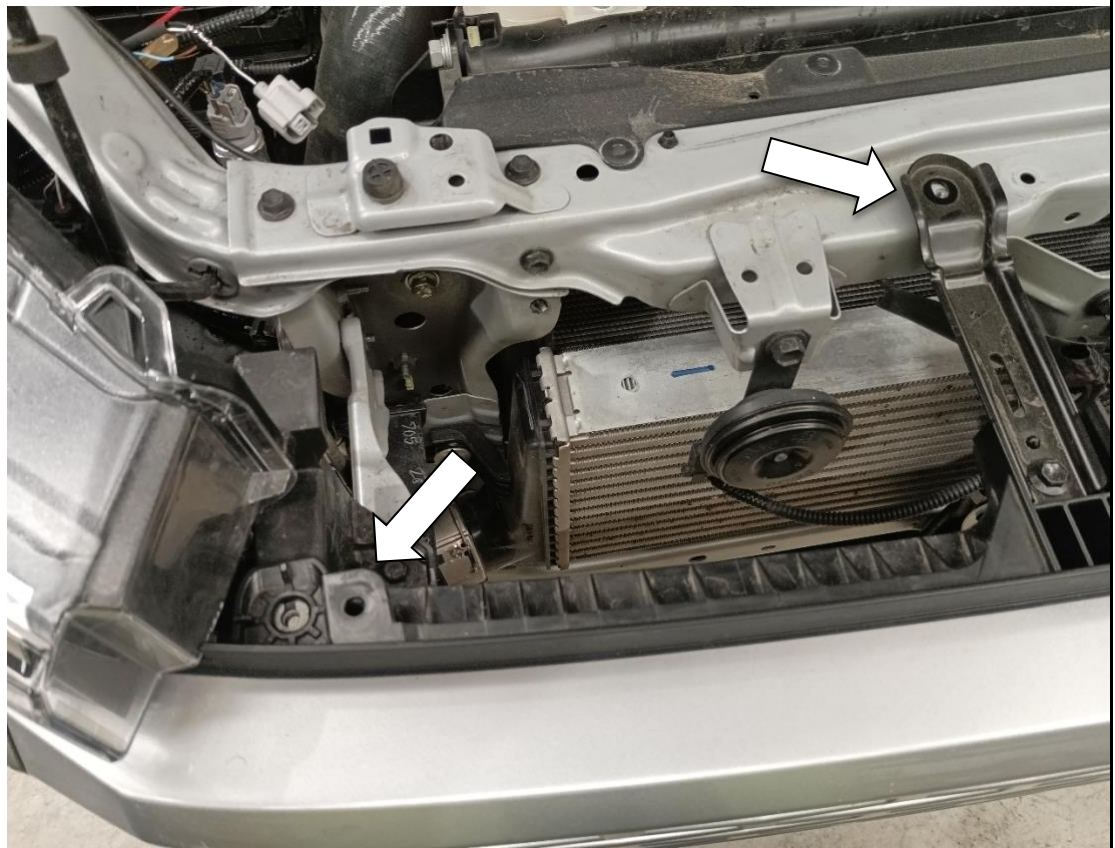
Remove factory bumper and grille

1.

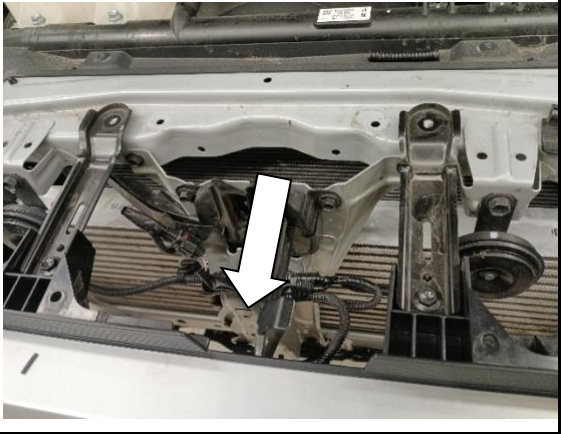
Remove the eight screws and top radiator cowl and put aside for re assembly.



2.

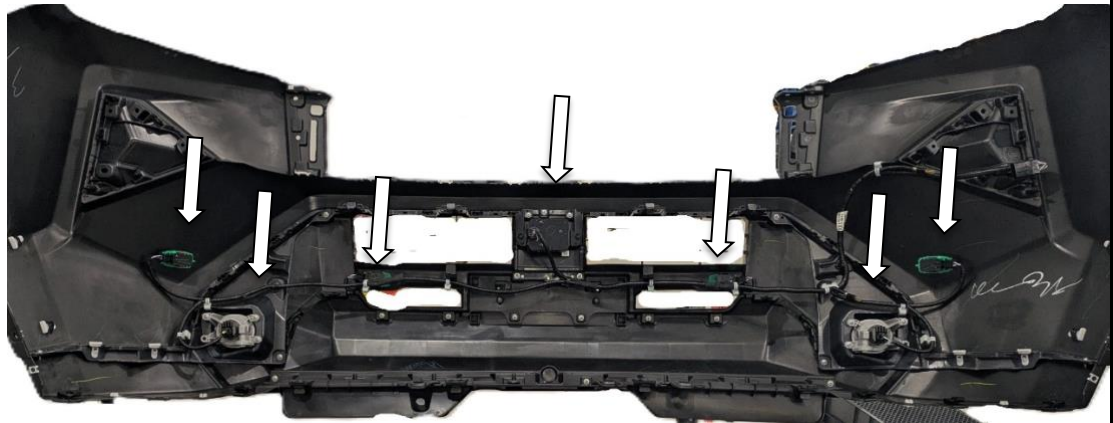


Remove the bolts retaining the grille from both sides.
Set aside for re-installation.

3.	Disconnect the camera plug.	 A close-up photograph of the rear of a white vehicle. The camera plug is located in the center of the frame, and a white arrow points to it, indicating the location for disconnection.
4.	Remove the fasteners in the wheel arch retaining the bumper. Remove the fasteners along the bottom of the bumper. Set all fasteners aside for re-use.	  Two photographs showing the removal of fasteners. The top photo shows a close-up of the wheel arch area with a white arrow pointing to the fasteners. The bottom photo shows a close-up of the front bumper area with a white arrow pointing to the fasteners.

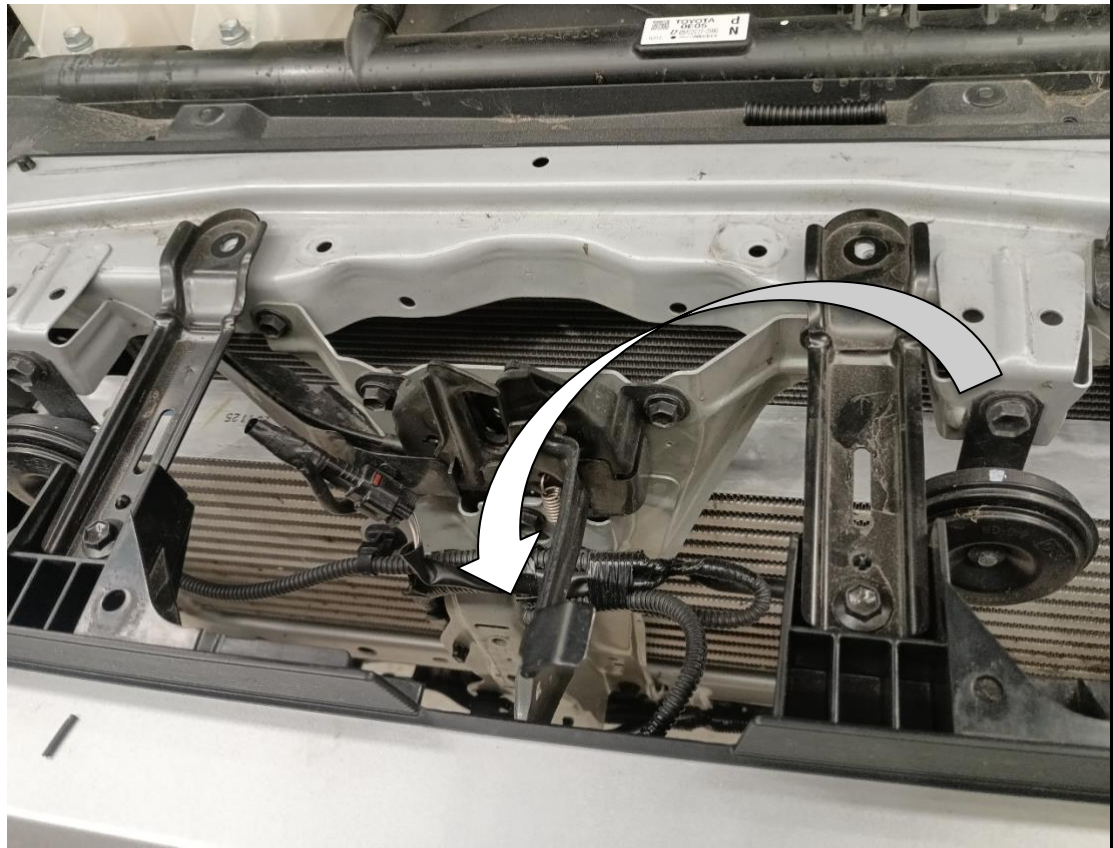
5.	Remove both of the front air deflectors, along with the screws (two per side) accessible once deflector is removed.	
6.	Remove both fasteners next to the tow hook, one each side, then remove and discard the plastic panel between the bumper and bash plate.	
7.	Starting on the RHS, start unclipping the bumper from the vehicle. Under the RHS head light, unplug the bumper loom as you move to the LHS. Place on a soft material for disassembly.	

8.

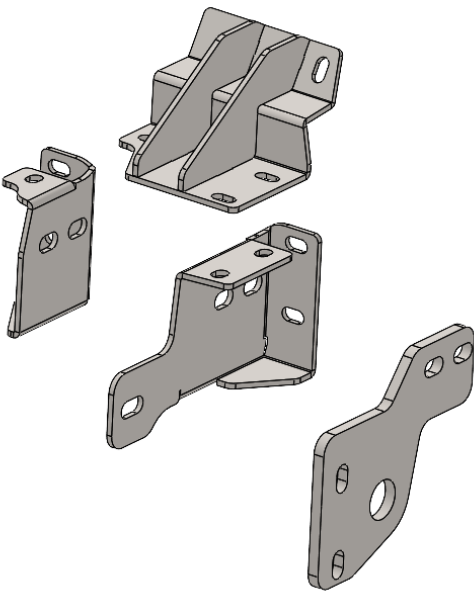


Remove the loom, sensors, Radar and fog lights from the bumper.
Unclip the central grille from the bumper.
DO NOT DROP THE RADAR

9.

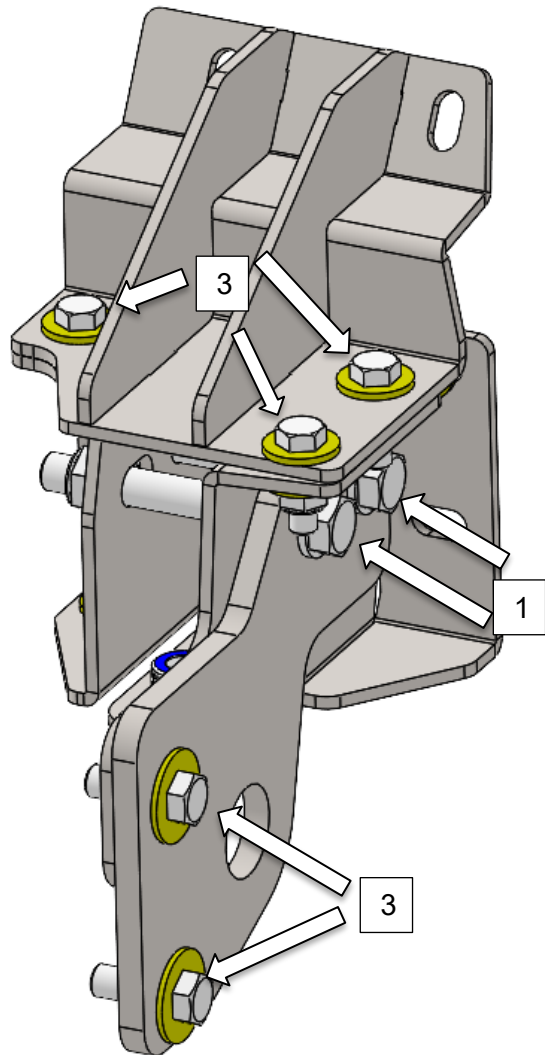


Remove the LHS horn and relocate the center below the loom.

10.	Remove the nuts from the rear face of the chassis plates. Apply paint for surface protection.	
11.	Refit the grille to the vehicle using the removed fasteners.	
12.	Loosely assembly the mounts to the chassis. RHS shown to fit the image above.	

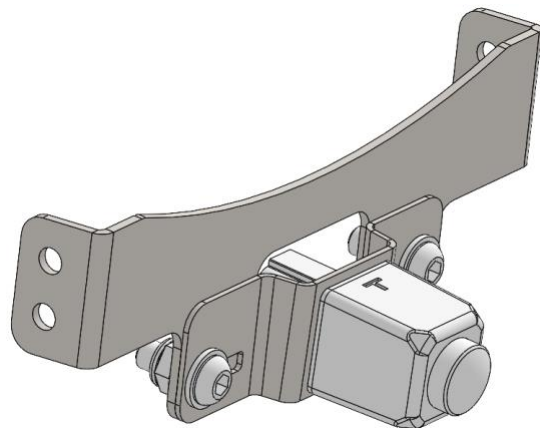
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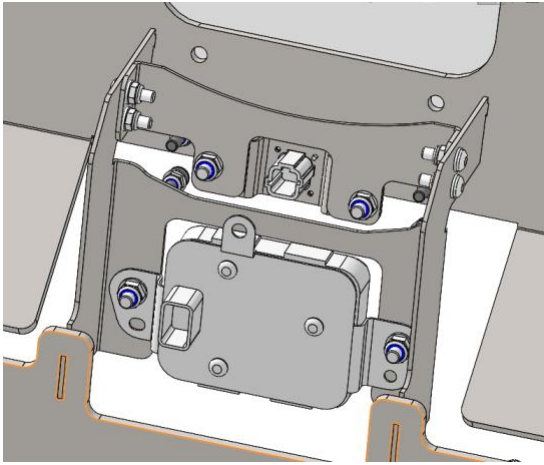
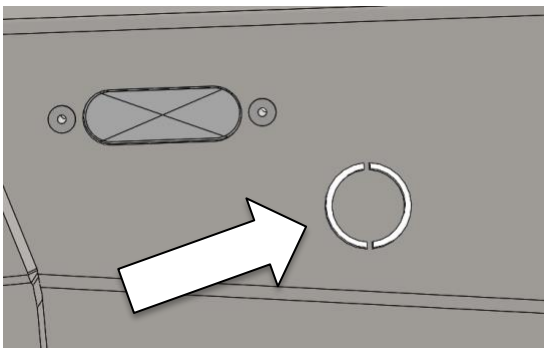
1. 2 x M14 x 110, 4 x M14 washers, 2 x M14 Nyloc nuts
2. 2 x M14 x 30 x 2off, 4 x M14 washers, 2 x M14 Nyloc nuts
3. 3 x M10 x 35, 6 x M10 washers, 3 x M10 Nyloc nuts

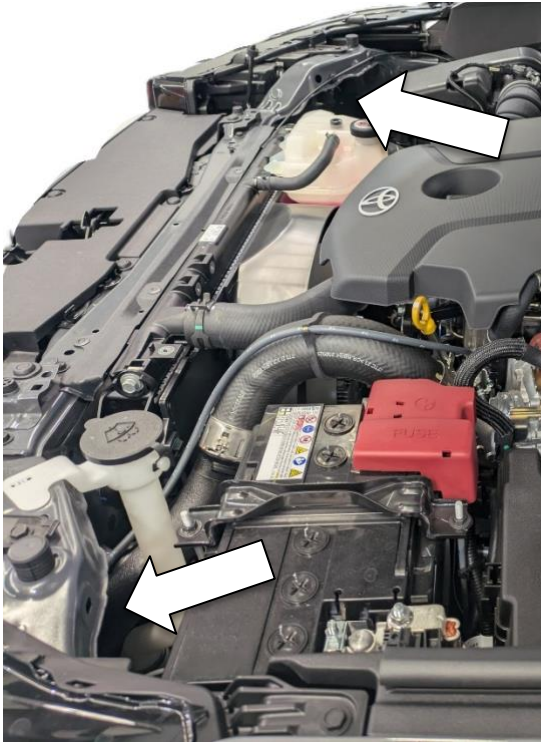


14.

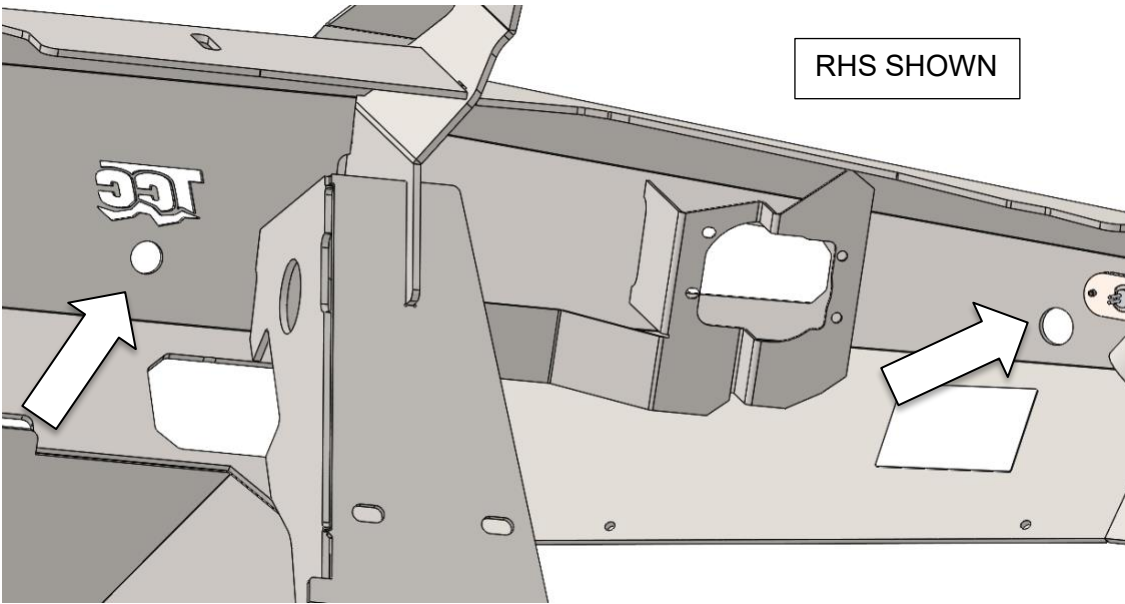
Fit the camera on the bracket as shown using two M6 x 16 button heads, four M6 washers and two M6 Nyloc nuts.

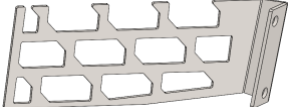
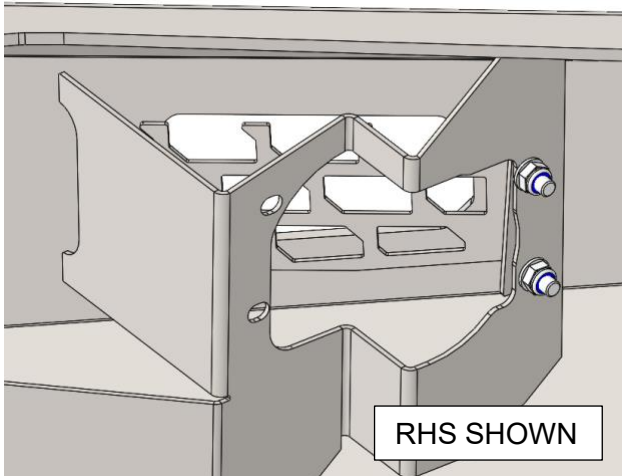
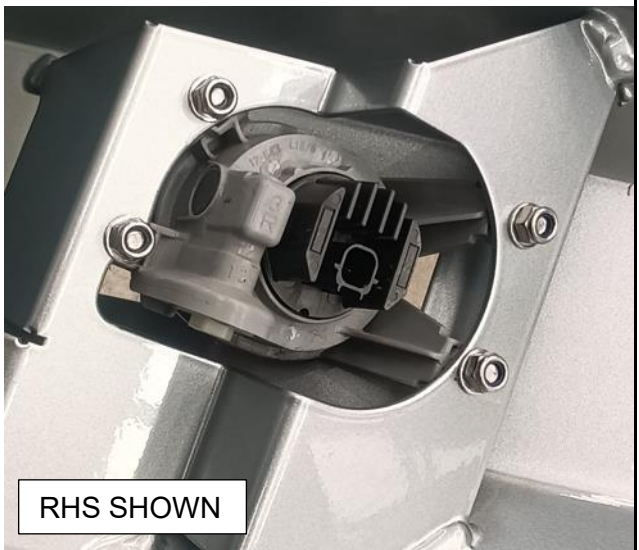


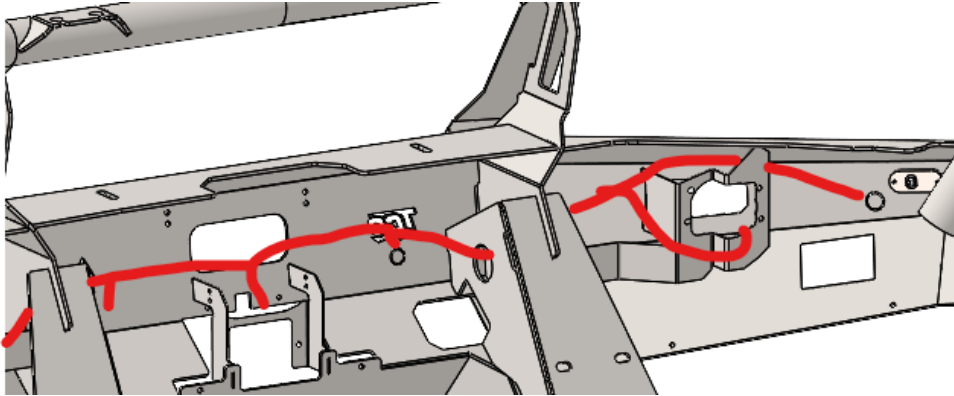
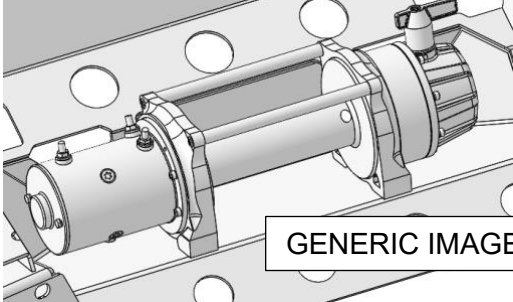
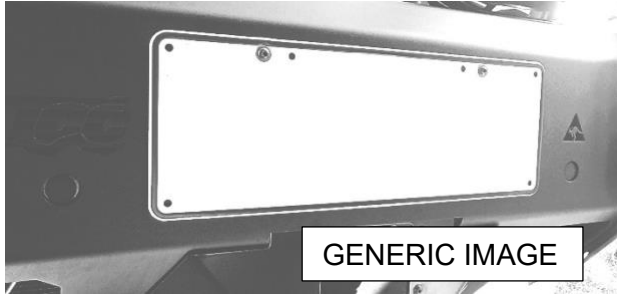
15.	Fit the RADAR to the bar using two M6 button heads, four M6 washers and two M6 Nyloc nuts. Fit the assembled Camera and mount using four M5 x 16 button heads, eight M5 washers and four M5 Nyloc nut	
16.	For sensor equipped models, remove the sensor knock outs, clean and paint prep the holes.	
17.	Take note of the orientation of the sensor retainers, then carefully remove from the plastic bumper using a pry tool. Clean the old tape off the sensors.	

18.	Locate the headlight plug and identify the indicator signal wire. Using approximately 150mm of two core cable, splice them into indicator and ground. These can be terminated with connectors or hard wired into bull bar indicator lights.	
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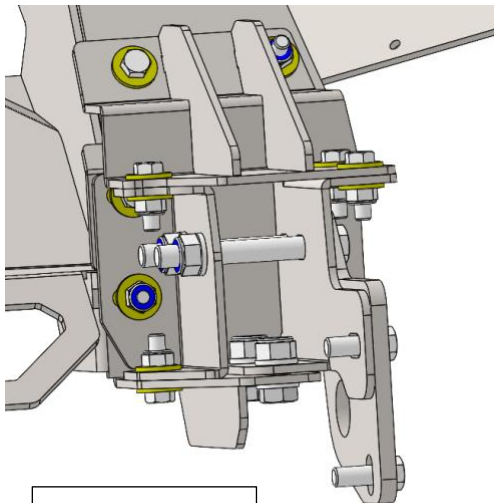
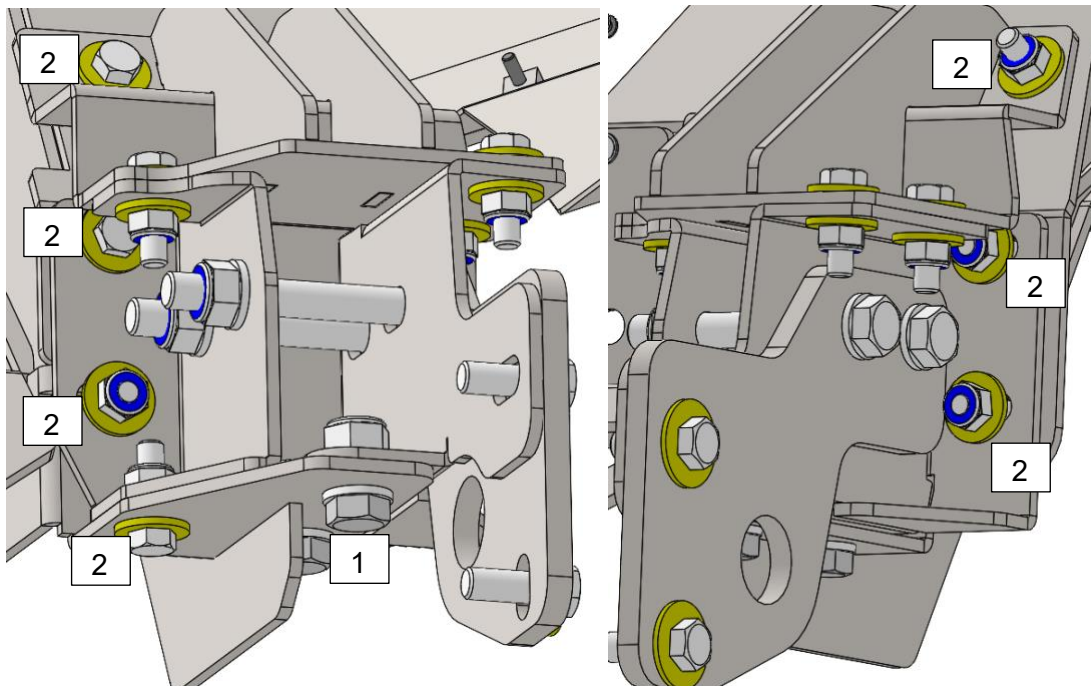
2. PREPARE BULL BAR

19.	 Apply double sided tape to the four sensor housings and fit to the bull bar in the correct orientation.
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	Scuffing the powder coat lightly with sandpaper before applying the adhesive will improve adhesion.	
20.	Install the parking sensors in the labeled locations.	
21.	If no fog lights are fitted standard, insert the Fog light grille into the bar using two M6 x 16 button heads with two M6 washers under two M6 Nyloc nuts. Repeat for LHS 	 RHS SHOWN
22.	Install both factory Fog lights with four M6 x 16 button heads, M6 washers and M6 Nyloc nuts as shown.	 RHS SHOWN

23.	 Route the harness on the bull bar as shown, aligning the middle sensors and RADAR. The harness for the outermost parking sensors may need to be extended by approximately 150mm. Take care to join the correct wires with the extension. Connect the sensors, RADAR and fog lights.
24.	At this point if applicable mount the winch and fairlead using direct front face mounting.  GENERIC IMAGE
25.	Refit your number plate using two M5 x 20 Button heads, four M5 washers and two M5 Nyloc nuts supplied fasteners in the NUMBER PLATE MOUNT KIT  GENERIC IMAGE
26.	If using connectors for the indicator light wiring add a corresponding connector now to the pigtails of the indicator light. 

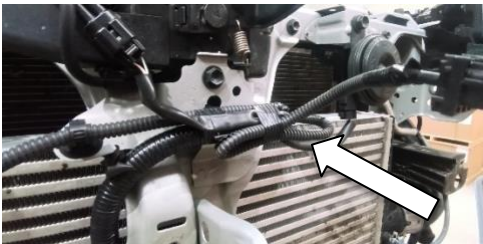
3. FIT THE BULL BAR

27.	With the aid of a second person and or lifting trolley, offer the Bull bar to the mounts, align the bar centrally and install all bolts listed below per side. If needed, use shims to align the bar to the wheel arches. Torque all fasteners to spec.	 RHS SHOWN
28.	 1. Two x M12 x 35, four x M12 washers, two x M12 Nyloc nuts 2. Seven x M10 x 35, fourteen x M10 washers, seven x M10 Nyloc nuts	

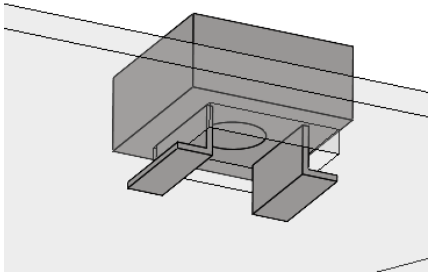
29.	Cut the side bumper retainers as shown. Remove both sides and paint the body black, then reinstall.	 RHS SHOWN
30.	With the bar fastened and in place measure the front gap between the bottom of the headlight and the top face of the bull bar to determine the bumper cut. The measurements should be taken every 50mm around the edge of the light and then translated onto the plastic bumper. Apply masking tape to the bumper before marking dimensions.	
31.	Measure along the side and transfer these dimensions onto the bumper to achieve a 20mm gap.	
32.	Once complete the bumper should be cut to leave 20mm of bumper below the bull bar under the head light and 20mm gap at the wing tip. Cut with a multitool and deburr and file the cut edge. Refit the flares to check.	

33.	With both sides reinstalled, fit the pinch weld as shown.	
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4. WIRE THE BULL BAR

34.	Wire the indicator lights into the extension prepared from the headlights. Reconnect the Harness under the RHS headlight.	
35.	Cut the tape holding the loom together and connect the Camera plug.	
36.	Check all wiring is secure and away from sharp edges.	

5. PREPARE AND FIT UNDERTRAYS

37.	Install the supplied M5 cage nuts into the undertrays by pressing the cages into the rectangular cutouts	
38.	Loosely fit the undertrays to the Bull bar using the supplied BLACK M5 x 25 button head screws. Repeat on other side.	
39.	Apply loctite to the M5 screws and fasten. DO NOT use power tools to avoid scratching the powdercoat finish.	
40.	Mark the wheel arch liners along the undertrays, pull them away from the under trays and cut 10mm above the marked line. Fit each liner to the inside fold of the under trays.	

41.	Test the light functions. Refit the radiator cowl using the removed screws.	
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6. Finish Installation

Congratulations 🎉

Thank you for choosing TCC and supporting Australian manufacturing !