



FITTING INSTRUCTIONS

Part Number: **3460100**
Product **SUMMIT MKII BAR SUIT KIA TASMAN MY25**
Description:
Suited to **KIA TASMAN MY25**
vehicle/s:
Optional **3501320 – WINCH INSTALL KIT**
fitting kit/s:

WARNING

REGARDING VEHICLES EQUIPPED WITH SRS AIRBAG.

When installed in accordance with these instructions, the front protection bar does not affect operation of the SRS airbag.

ALSO, NOTE THE FOLLOWING:

- ◆ This product must be installed exactly as per these instructions using only the hardware supplied.
- ◆ In the event of damage to any bull bar component, contact your nearest authorised ARB stockist. Repairs or modifications to the impact absorption system must not be attempted.
- ◆ Do not use this product for any vehicle make or model, other than those specified by ARB.
- ◆ Do not remove labels from this bull bar.
- ◆ This product or its fixing must not be modified in any way.
- ◆ The installation of this product may require the use of specialized tools and/or techniques.
- ◆ It is recommended that this product is only installed by trained personnel.
- ◆ These instructions are correct as at the publication date. ARB Corporation Ltd. cannot be held responsible for the impact of any changes subsequently made by the vehicle manufacturer.
- ◆ During installation, it is the duty of the installer to check correct operation/clearances of all components.
- ◆ Work safely at all times.
- ◆ Unless otherwise instructed, tighten fasteners to specified torque.

ARB 4x4 ACCESSORIES

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GENERAL CARE AND MAINTENANCE

By choosing an ARB Bar, you have bought a product that is one of the most sought after 4WD products in the world. Your bar is a properly engineered, reliable, quality accessory that represents excellent value. To keep your bar in original condition it is important to care and maintain it following these recommendations:

- Prior to exposure to the weather your bar should be treated to a Carnauba based polish on all exposed surfaces. It is recommended that this is performed on a six-monthly basis or following exposure to salt, mud, sand or other contaminants.
- As part of any Pre Trip Preparation, or on an annual basis, it is recommended that a thorough visual inspection of the bar is carried out, making sure that all bolts and other components are torqued to the correct specification. Also check that all wiring sheaths, connectors, and fittings are free of damage. Replace any components as necessary. This service can be performed by your local authorized ARB Stockist.

FITTING REQUIREMENTS

REQUIRED TOOLS FOR FITMENT OF PRODUCT:

BASIC TOOL KIT	ELECTRIC DRILL WITH COMPLETE METRIC DRILL SET
JIG SAW OR OSCILATING MULTITool WITH BLADE SUITABLE FOR PLASTIC	LOW TACK MASKING TAPE
FILE	UTILITY KNIFE
TAPE MEASURE	CLAMP
STEEL RULE	WHITE FELT MARKER
HACK SAW	TORQUE WRENCH
TOUCH UP PAINT ANTI CORROSION	RIGHT ANGLE ELECTRIC DRILL

HAVE AVAILABLE THESE SAFETY ITEMS WHEN FITTING PRODUCT:

Protective eyewear		Hearing protection	
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NOTE: 'WARNING' notes in the fitting procedure relate to OHS situations, where to avoid a potentially hazardous situation it is suggested that protective safety gear be worn or a safe work procedure be employed. If these notes and warnings are not heeded, injury may result.

FASTENER TORQUE SETTINGS:

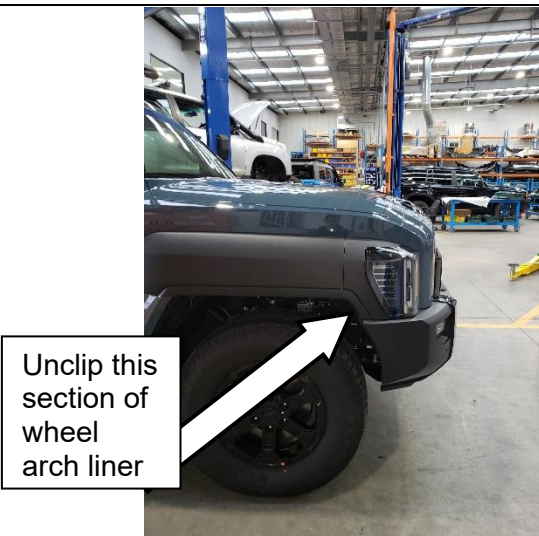
SIZE	Torque Nm	Torque lbft
M6	9Nm	7lbft
M8	22Nm	16lbft
M10	44Nm	32lbft
M12	77Nm	57lbft

PARTS LISTING

APPLICATION.	PART NO.	QTY	DESCRIPTION
MOUNTS TO CHASSIS AND BAR	4655849R/L	1 PR	MOUNT ASSY RH/LH KIA TASMAN
	3197283	6	PLATE PACKER
	37500890 R/L	1 PR	CHASSIS BRKT INNER RH/LH
	37500891 R/L	1 PR	CHASSIS BRKT OUTER RH/LH
	4722155	2	CRUSH TUBE SPACER
	4584380	20	WASHER FLAT M10x22.9x2 HV300 BTZP480
	4584363	10	WASHER FLAT M12x26x4 HV300 TZP480
	6151815	20	BOLT HXHD FL M10x1.25x40 PC11.9 ZAB1000
	6151689	2	BOLT HXHD M12x1.25x90 PC10.9 ZP
	6151817	6	BOLT HXHD FL M12x1.25x40 PC11.9 ZAB1000
	6152008	4	BOLT HXHD FL M6x1.0x25 PC8.8 ZNB480
	6151173	4	NUT FLANGE M6 ZNB480 SERRATED
	6151969	10	NUT FLANGE M10x1.25 PC10.9 ZAB1000
	6152023	6	NUT FLANGE M12x1.25 PC10.9 ZAB1000
	6151766	2	NUT HEX NYLOC M12x1.25 ZP
LIGHTS AND MOULDINGS	3163294	1	KIT, CVR STRAP SUIT SUMMIT
	3163295	1	KIT, GRILLE OUTER SUIT SUMMIT
	3163316	1	RDR CVR LRG SUIT SUMMIT
	3163458	2	SIDE RADAR COVER
	3500991	1	LAMP CLUSTER, ARB SUMMIT RH&LS LAMP SET
	37500122	2	LIGHT RETAINER BRKT LC70
	37500939	2	SUMMIT MKII GRILL BRACKET
	6523812	1	INFILL PANEL
	350868	1	SENSOR SURROUND KIT (6)
	6151300	2	NUT CAGED M6 2.6-3.5 956-C
	6151622	2	SCREW BHD M6x20 TX PC8.8 ZNB480 NYLON PATCH
	6151459	8	SCREW BHD M6x16 BTZP480
	6151173	8	NUT FLANGE M6 ZNB480 SERRATED
	4584329	10	WASHER FLAT M6x12.2x1.2 BTZP480
	6781438	2	TAPE 3M4991 - 2.3MM VHB 20X25 2PCS
STONE GUARDS	6523856R/L	1 PR	UNDER WING PANELS R/L KIA
	6523776R/L	1 PR	REAR UNDER PANELS R/L
	6523855	1	CENTRE PANEL
	6151261	10	NUT J M6x1.0 ZNS480
	6151473	3	NUT U M8x1.25 ZP PR1.6-3.0 L20
	6151715	4	NUT CAGED M6 3.6-4.5 836-D
	6151459	14	SCREW BHD M6x16 BTZP480
	6151475	2	NUT U M6x1.0 TZP480 PR1.6-3.0 L13
	6151729	2	BOLT HXHD FL M6x1.0x20 PC8.8 ZNB480
	4584329	14	WASHER FLAT M6x12.2x1.2 BTZP480

PARTS LISTING – CONTINUED			
WINCH COVER PANEL	6523551	1	PANELWINCH COVER MB SUIT HILUX
	6151459	4	SCREW BHD M6x16 BTZP480
	6151173	4	NUT FLANGE M6 ZNB480 SERRATED
	4584329	4	WASHER FLAT M6x12.2x1.2 BTZP480
ELECTRONICS	CANDEC	1	CAN BUS DECODER MODULE INCLUDES WIRING HARNESS
	3501200	1	HARNESS CAN MODULE BULLBAR
	3560010	1	HARNESS CANBUS ADAPTOR TASMAN
	6821618	1	RADAR EXTENSION
	6821477	1	SENSOR EXTENSION
	6821557	1	COAX EXTENSION M/F 500mm
	37501001	2	RADAR SUPPORT BRACKET
	37500968	2	SIDE RADAR BRKT LOWER
	37501000	1	RADAR BRACKET
	37500892	1	CAMERA BRKT KIA TASMAN
	6151871	2	SCREW PHD M6x16 PC10.9 ZNB480 UT
	6151459	16	SCREW BHD M6x16 BTZP480
	6151173	8	NUT FLANGE M6 ZNB480 SERRATED
	6151223	8	NUT HEX NYLOC M6x1.0 ZNB480
	4584329	24	WASHER FLAT M6x12.2x1.2 BTZP480

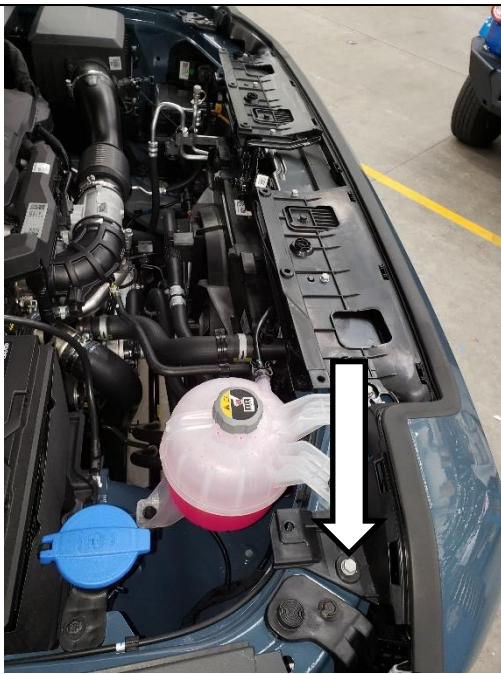
FITTING PROCEDURE *Note: Read the instructions thoroughly before starting.*



1. Remove fasteners securing front section of wheel arch liner on both sides.
Retain for later.



2. Remove the fasteners and clips holding the plastic cover seen on the left.
Retain for later.



3. Remove the fasteners holding the top of the bumper onto the vehicle as seen on the left. Retain for later.



Lower fasteners of bumper

4. Remove fasteners securing lower edge of bumper. Retain for later.

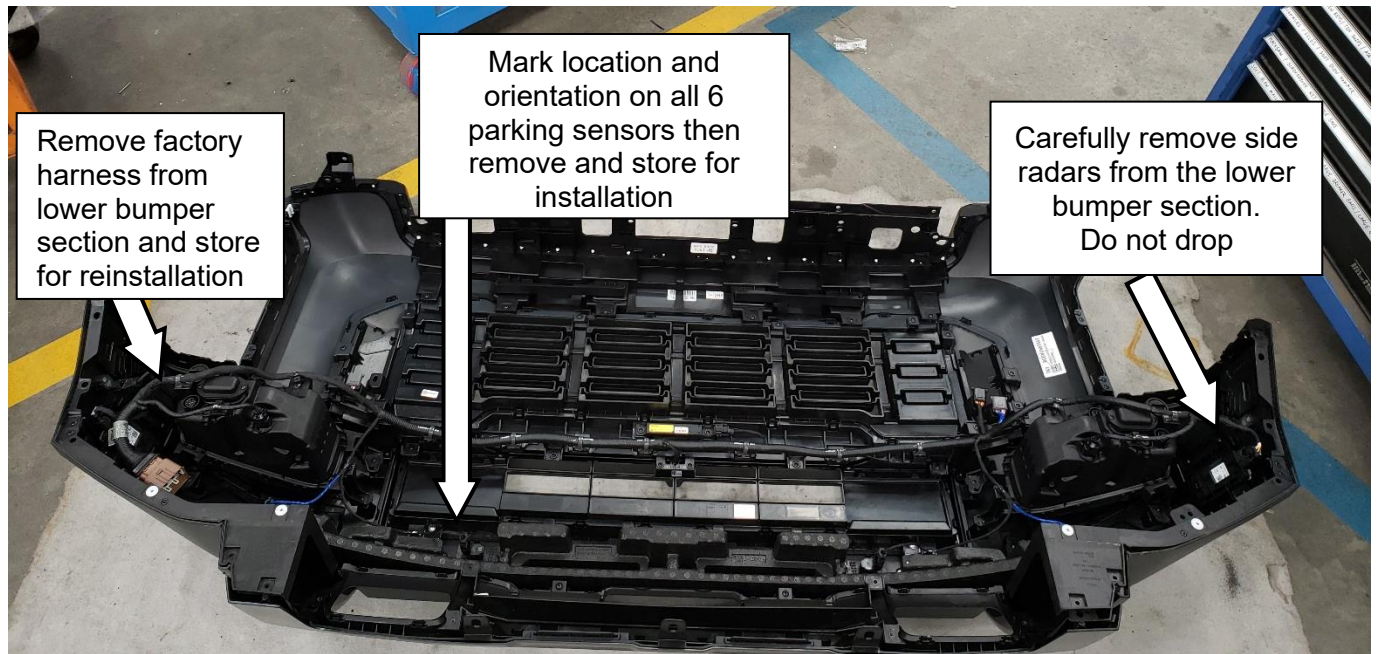


5. Disconnect the Bull harness from behind the wheel arch liner on the LHS.
6. Remove bumper and grill section in one piece from vehicle.

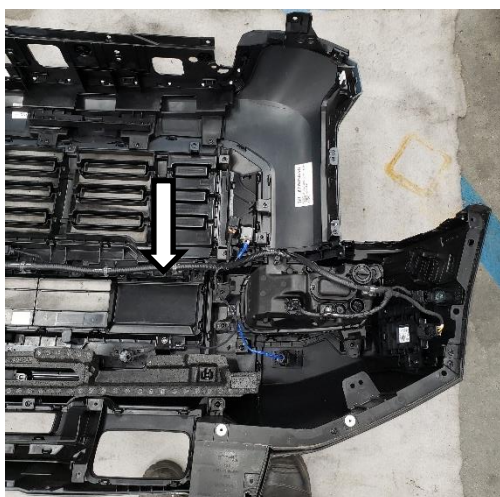
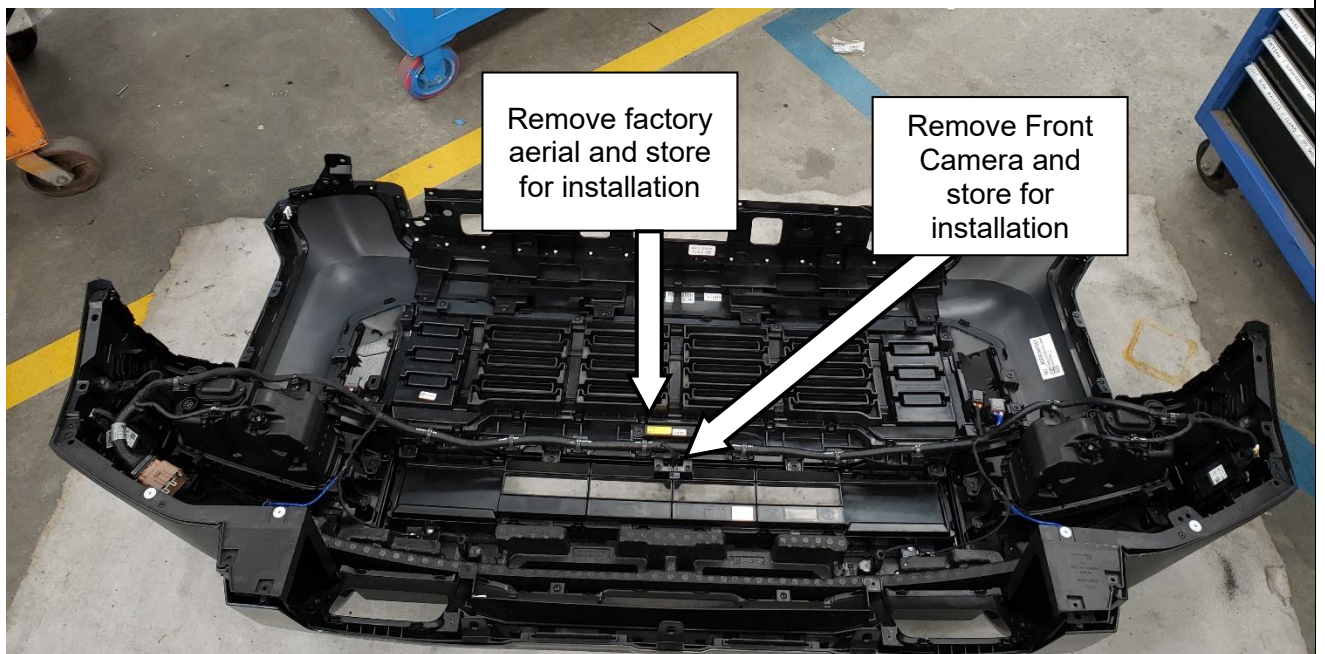


Bull Harness Connector

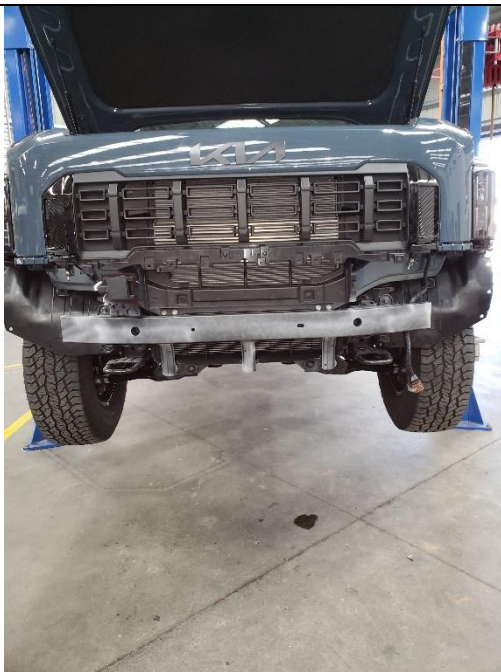
7. Remove the factory wiring sensors and radars from the bumper as seen below.



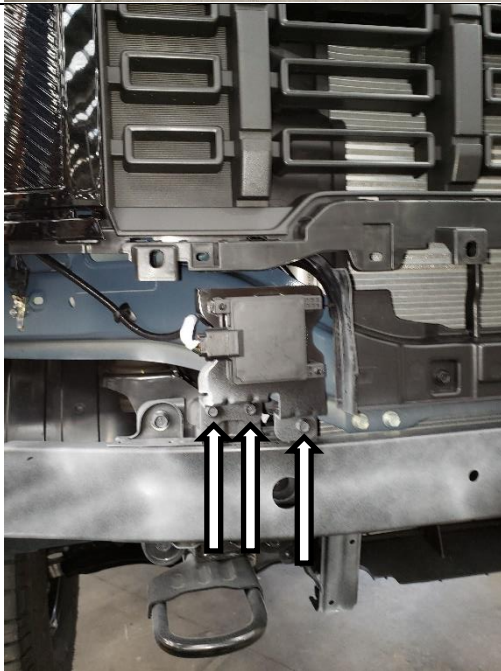
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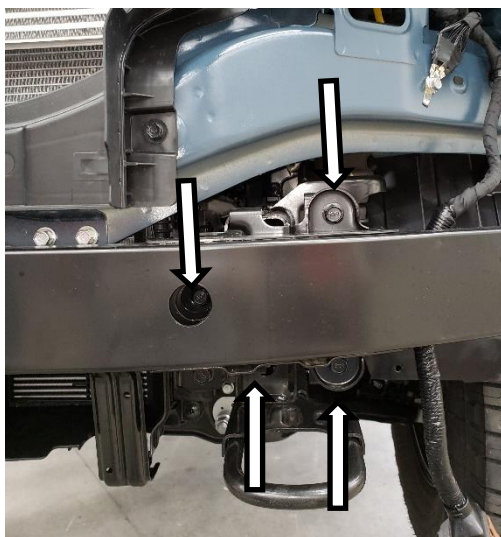
9. Unclip the lower section of the bumper from the grill section and separate the two.



10. Place the grill section back onto the vehicle.



11. Remove the factory radar from the crash beam by removing the fasteners shown and store for installation in the bar.
Note: Take care not to drop the sensor



12. Unbolt factory crash beam from the chassis and discard the crash beam and fasteners.





13. Cut the protruding section of the grille as shown.



Warning: Cutting operations can result in flying metal debris, safety glasses should be worn.



14. Cut remaining bumper material around the upper bumper as shown. (cut per side). LHS shown.



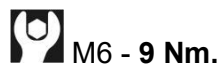
Warning: Cutting operations can result in flying metal debris, safety glasses should be worn.



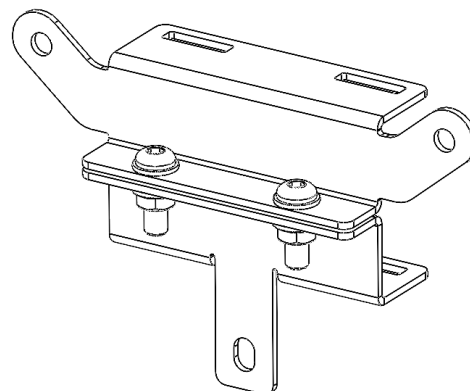
15. Remove bumper retention plastics on the headlight shown (two total, one per side). RHS shown.
discard the plastics and fasteners.



16. Assemble each side radar module using supplied bracketry, retaining with two M6x20 button head screw, four M6 washers and two M6 Nyloc nuts. Torque to spec.

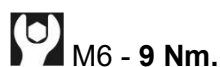


Repeat for other side.

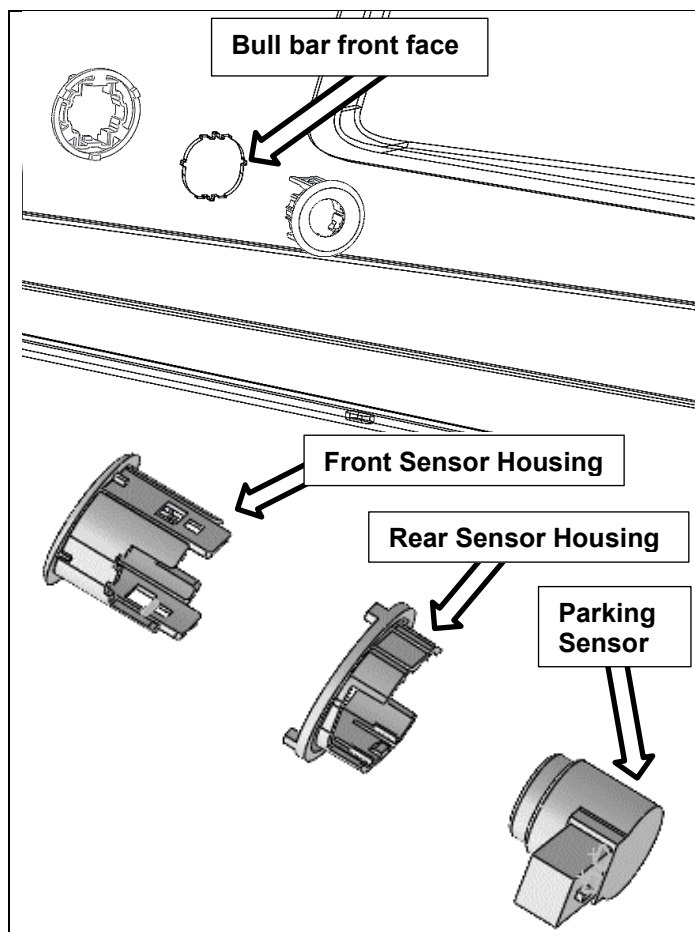


17. Fit assembled radar bracket to the bar, following orientation on factory bumper. Retaining with three M6x16 button head screws, three M6 washers and three M6 flange nuts. Torque to spec.

Repeat for other side.

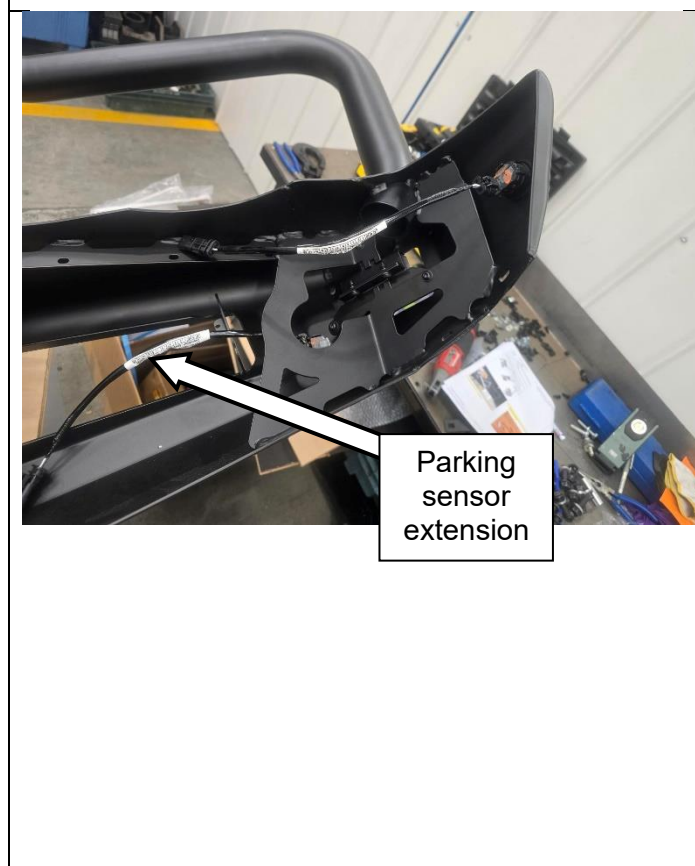


LHS shown



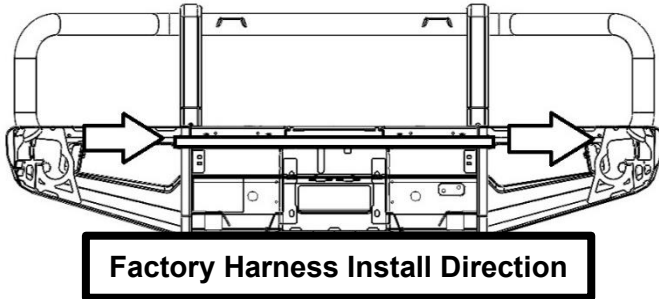
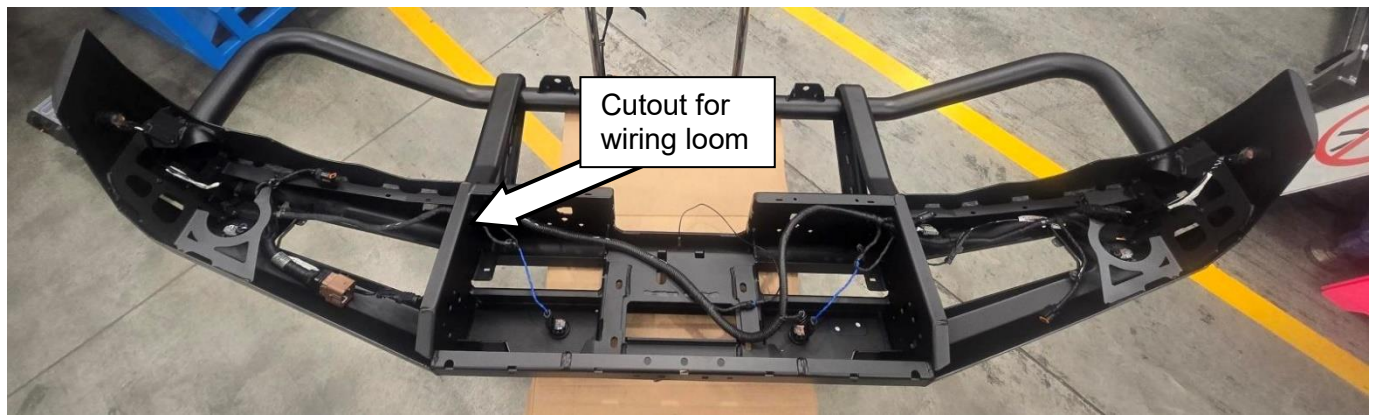
18. Install parking sensors, making sure to match orientation as they were mounted in the factory bumper. Generic image shown.

NOTE: Rear sensor housing is cut on an angle to suit the bar and may require clocking

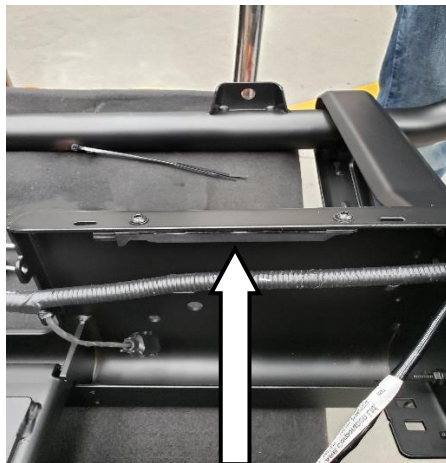


19. Fit parking sensor extensions to both outer parking sensor connectors.





20. Install factory bumper wiring loom into bar, routing through cutouts provided. Plug in parking sensors and radars.



21. Install factory key fob antennae onto the RHS top pan using two M6x16 button head screws, four M6 washers and two M6 Nyloc nuts. Torque to spec.

 M6 - 9 Nm.



22. Identify ARB lighting harness, Kia Tasman CAN Connect Harness and ARB CAN Connect module.
Follow the instructions included with both the CAN module and harness for fitment.



23. Identify grill support 6523812 and adhesive pads 6781438.
Thoroughly clean grill support with isopropyl alcohol



24. Ensure the underside of the grill is smooth and no burs are left from trimming in step 13.
Thoroughly clean underside of grill with isopropyl alcohol



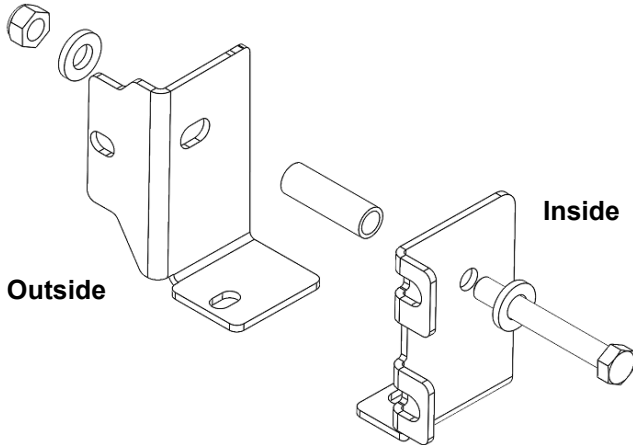
25. Apply adhesive strips across grill support panel spaced evenly across the bracket.
26. Loosen the top four M8 fasteners on the factory radiator brace.



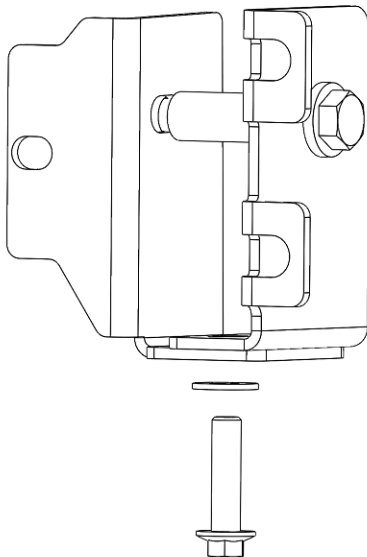
27. Remove backing strips from adhesive pads and firmly press pads to underside of grill. Torque the four mounting bolts to spec while holding light upwards pressure on the grill support.



M8 - 22 Nm.

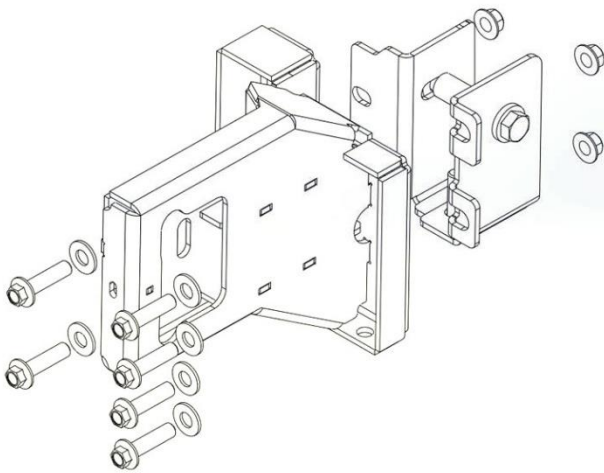


28. Install a crush tube into the chassis. Install one M12x1.25x90mm bolt through the outside bracket into the crush tube, then into the Inside bracket. Loosely install two M12 washers and one M12 Nyloc nut.



29. Loosely install one M10x1.25x40 PC11.9 and one M10 washer through the rear mount assembly and into the chassis.

RHS shown, repeat for other side



30. Install the mount assembly onto the chassis using seven M10x1.25x40 bolts, seven M10 washers and three M10x1.25 flange nuts.



M10 PC11.9 - 63 Nm

RHS shown, repeat for other side.



31. torque all remaining bolts in the rear mount assembly to spec.



M10 PC10.9 - 63 Nm

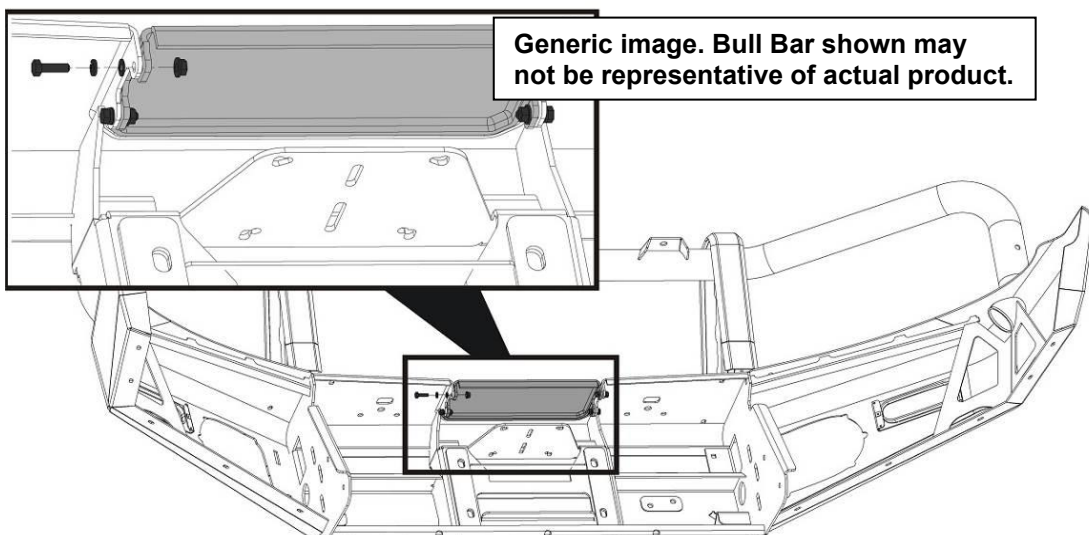


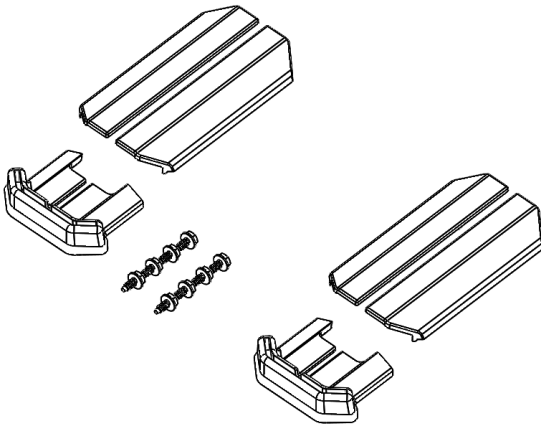
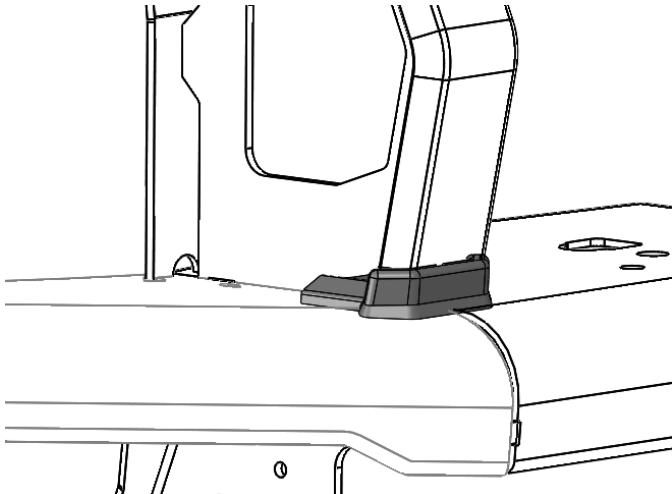
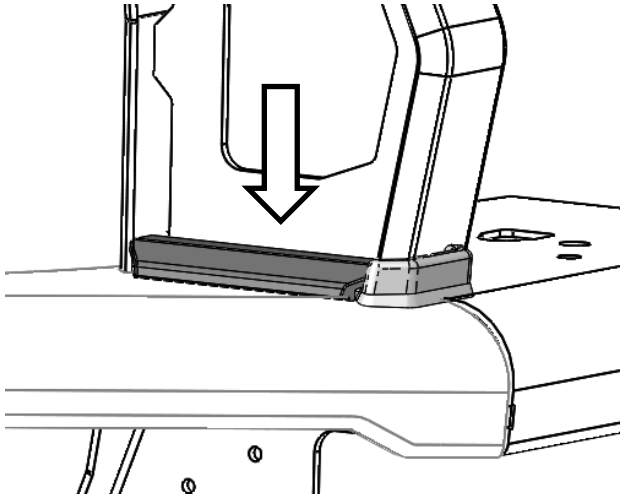
M12 PC10.9 - 92 Nm

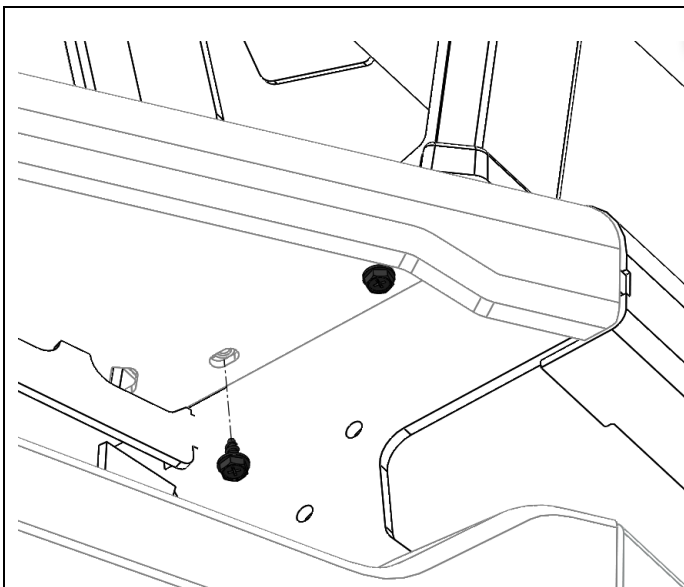
Note: If fitting a winch proceed from here using fitting instructions supplied with 3501320 winch install kit. Once the winch is fitted, please continue to step 34. If no winch is being fitted, continue from here.

32. Slide the winch cover panel from the bottom up until it is level with the top face of the bar.
33. Fit the winch cover panel to the bar using four M6 x 16 hex bolts, four flat washers and four flange nuts.

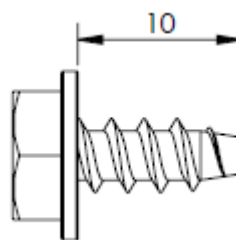
Warning: Be careful not to scratch the finish of the winch cover panel.



	34. Identify the cover strap plastics kit, 3163294.
	35. Fit the rubber intersection mouldings to the base of each upright cover strap. <i>Ensure that the skirt of the rubber moulding is not folded back on itself and is sitting flat against the bull bar.</i>
	36. Place the plastic cover down onto the rubber moulding, repeat on both sides of the cover straps.



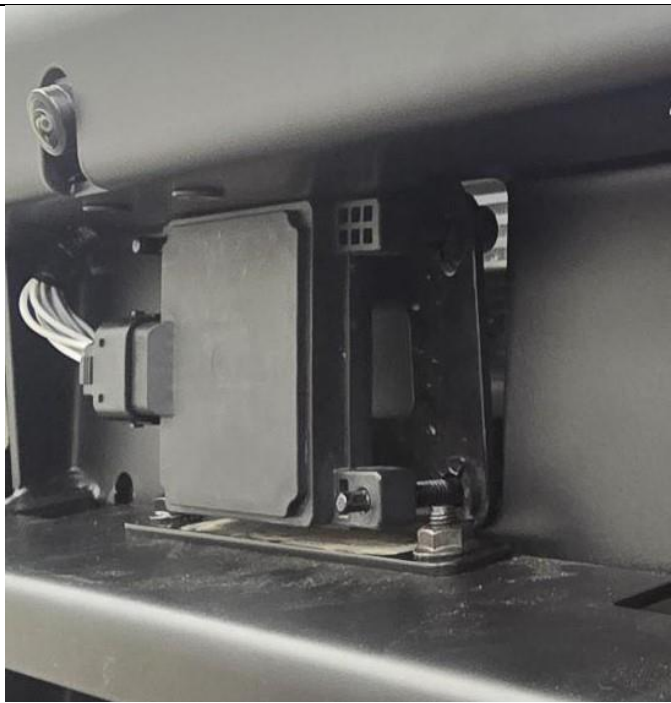
37. From underneath, fit two screws into each plastic cover. Tighten until the covers are secure and have firmly clamped the rubber moulding.



38. Remove the radar from the factory bracket then remove the factory retaining inserts (shown below) from the factory bracket. Install the factory retaining inserts into the front radar bracket.



39. Install the radar unit into the front radar bracket with included radar extension harness.



40. Install the radar bracket onto bull bar using two M6x16 button head screws, two M6 washers and two M6 flange head nuts and tighten to spec.
- Route radar extension up into bull bar and to the right in preparation for connecting to vehicle harness.

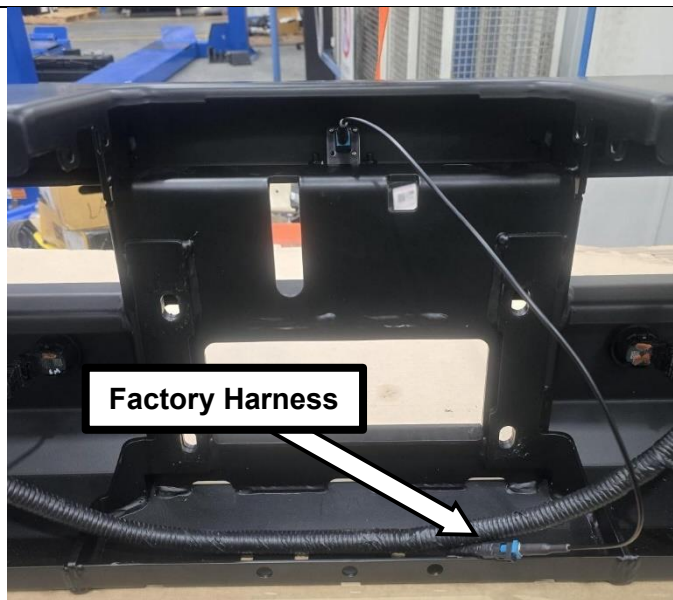
 M6 - 9 Nm.



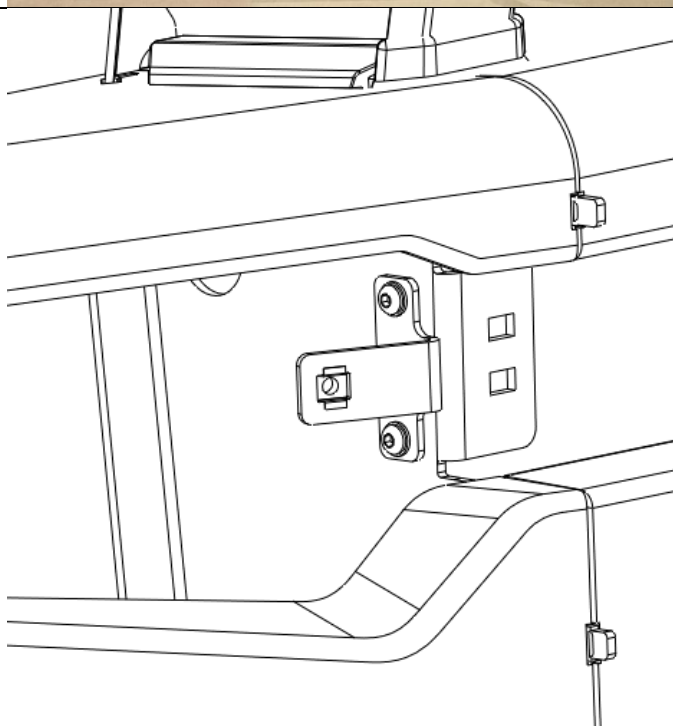
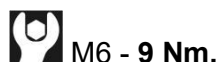
41. Remove the four Philips head screws from the factory camera Bracket



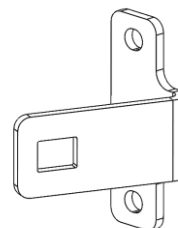
42. Fit the front camera to camera bracket using the four factory screws.



43. Install the camera onto the bulbar with supplied camera extension. Fasten two M6x16 button head screws, four M6 washers and two M6 Nylock nuts to attach camera bracket. Torque to spec. Connect to factory bumper harness as shown.



44. Identify left and right light cluster brackets. Fasten two M6x16 button head screws, two M6 washers and two M6 flange nuts to attach light cluster bracket. Torque to spec.

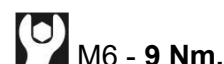
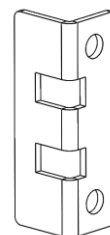


RHS shown, repeat for other side.

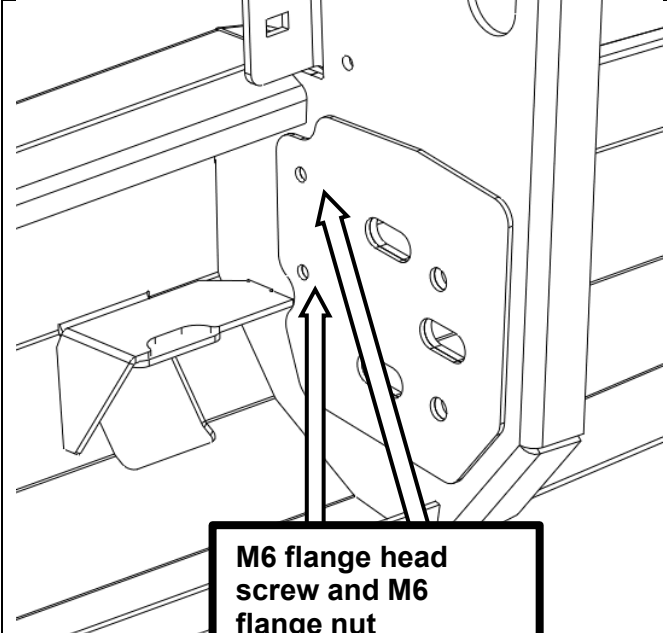
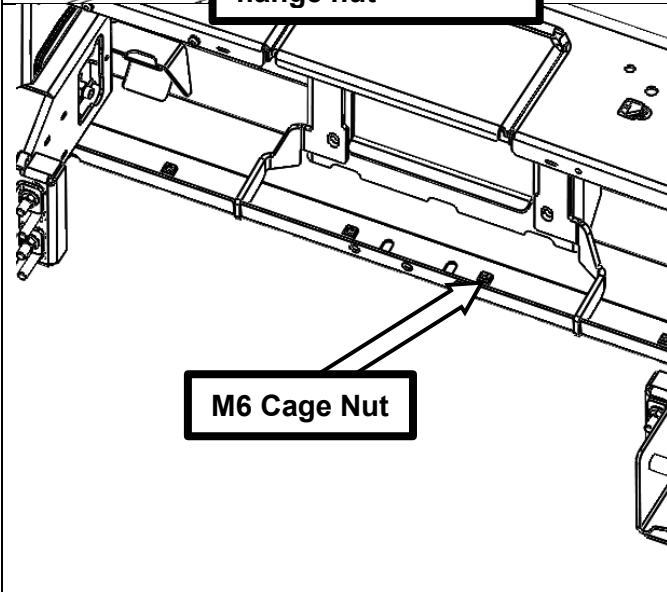
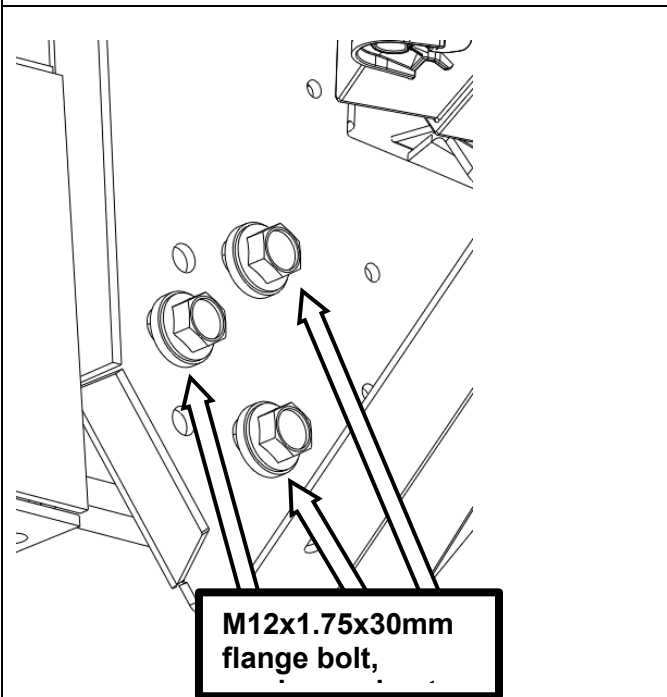
45. Install M6 cage nut into cluster bracket.
Repeat for other side.



46. Identify grille brackets. Fasten two M6x16 button head screws, two M6 washers and two M6 flange nuts to attach light cluster bracket. Torque to spec.



LHS shown, repeat for other side.

 M6 flange head screw and M6 flange nut	47. Use a tape measure to check the distance across the two internal mounting faces of the bull bar. Similarly measure the distance between the mounting faces on the chassis mounts. Select an appropriate number of 4mm shims to take up the difference in the two dimensions taken and preassemble onto bull bar uprights using M6 flange head bolts and 4 flange nuts. (one to two shims per side should achieve a smooth sliding fit between bull bar and mounts)
 M6 Cage Nut	48. Install four M6 cage nuts into bottom pan of bull bar.
 M12x1.75x30mm flange bolt,	49. Fit bar to mounts using six M12x1.75 bolts, six M12x24x4 flat washers and six M12x1.75 flange nuts. <i>WARNING: Due to the weight of the bar and winch if fitted, it is advised that you use some form of mechanical assistance when lifting the bar onto the vehicle such as an elevating trolley.</i>

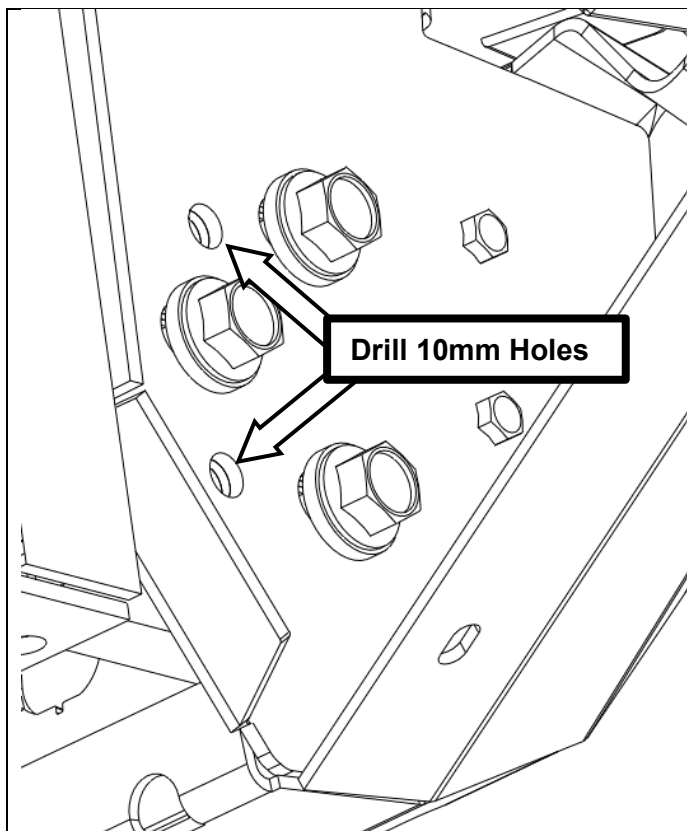


50. If bull bar is not central to quarter panels, remove and adjust shims from one side to the other to adjust bull bar across the vehicle.



51. Adjust bar so the rear edge of the wing is parallel to the vehicle fender.
52. Torque bar mounting bolts to specification.

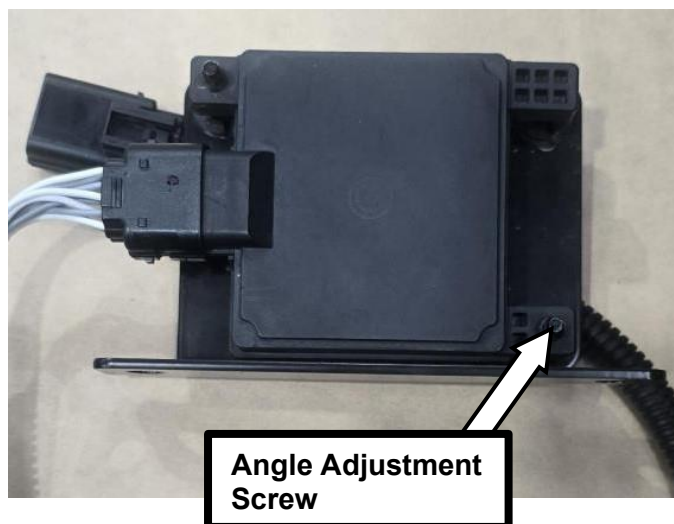
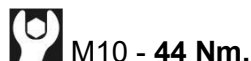
 M12 - 77 Nm.



53. Drill four x Ø10mm holes (2 per side) through mount assembly using existing holes in bull bar as guide. This may require a right-angled drill.

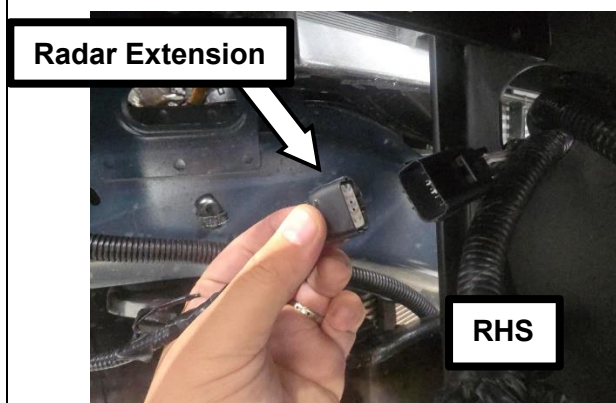


54. Add anti-corrosion touch up paint to areas drilled, then assemble and tension four M10 flange bolts and flange nuts to specification.



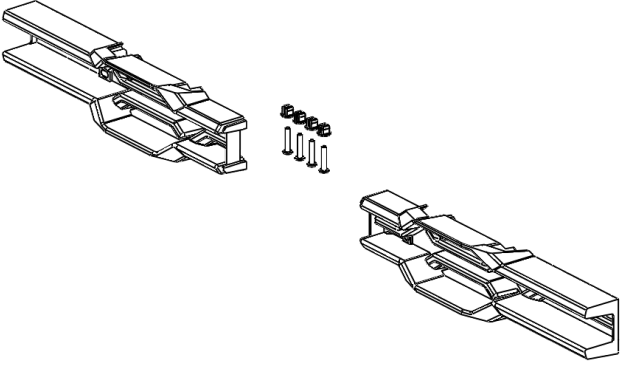
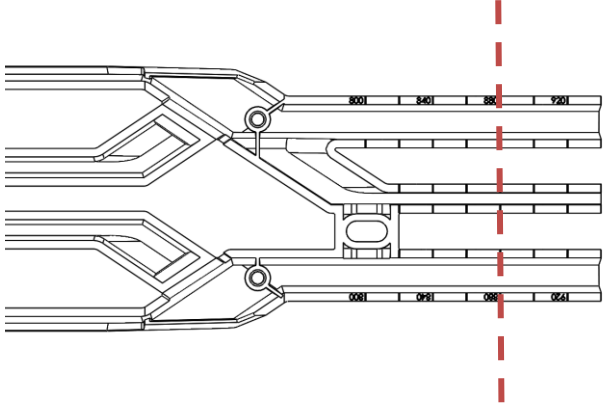
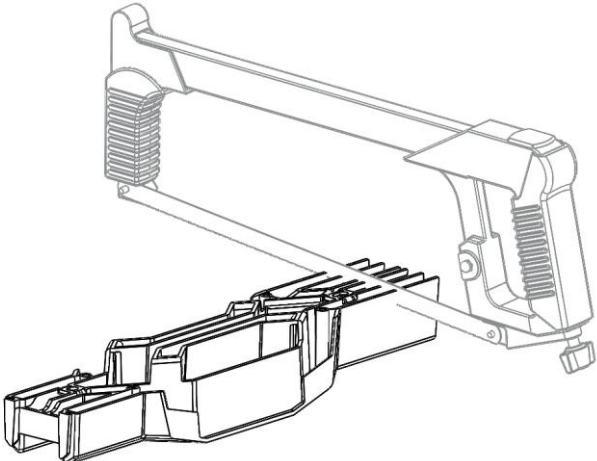
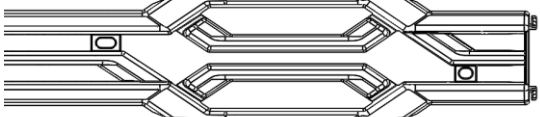
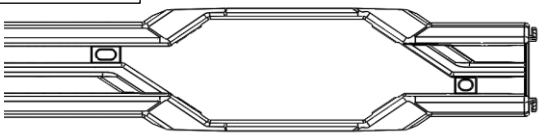
IMPORTANT: Front face of radar should be perpendicular to ground. If not, adjust accordingly.

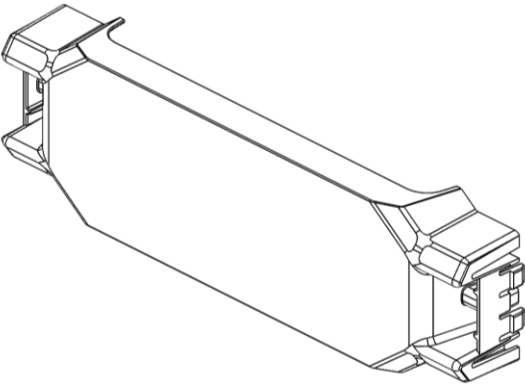
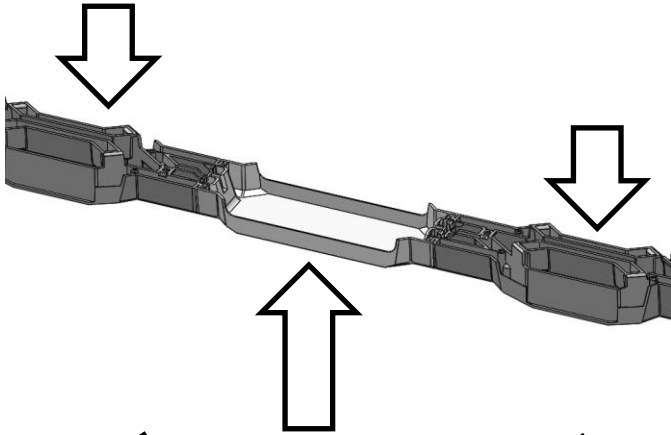
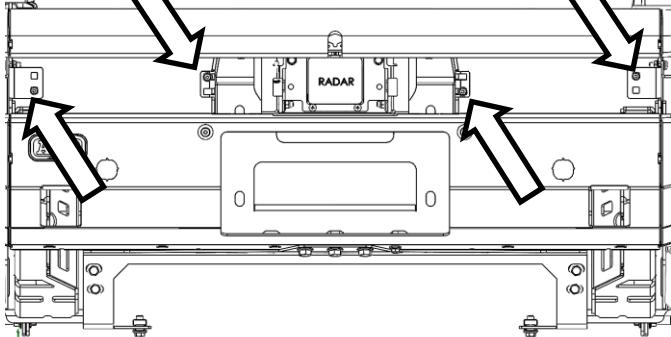
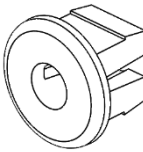
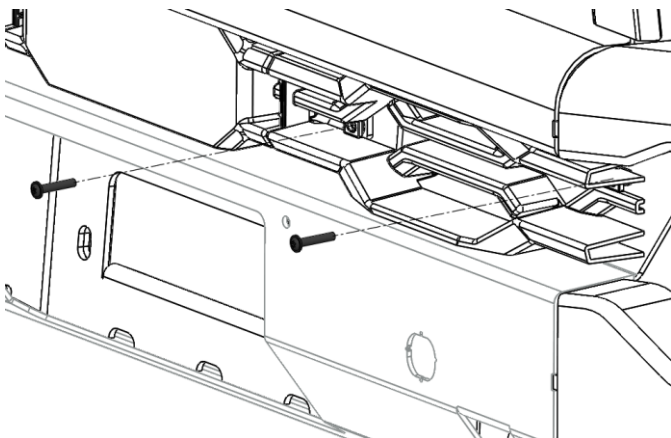
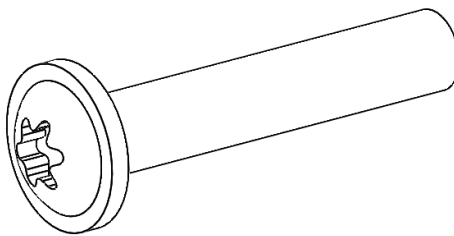
55. With the car on level ground, place a level on the front face of the sensor. The front face should be 90° degrees to level ground with a tolerance of $\pm 1^\circ$. Adjust to within this tolerance.

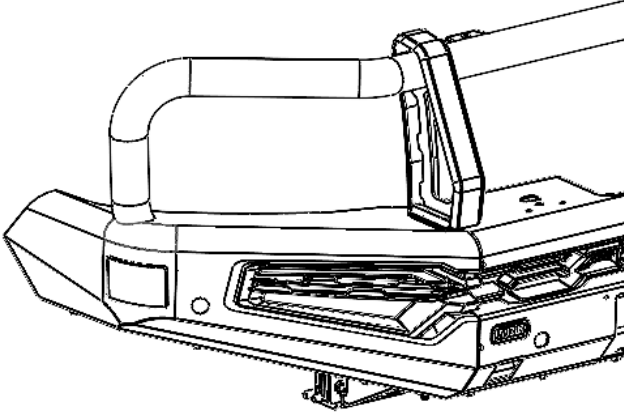
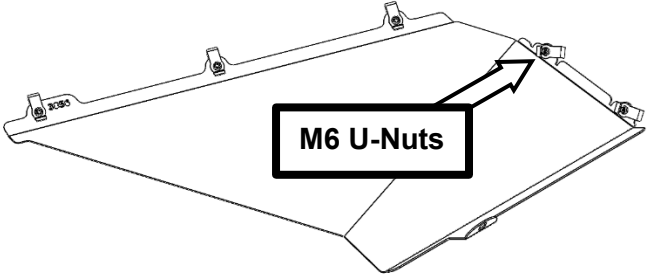
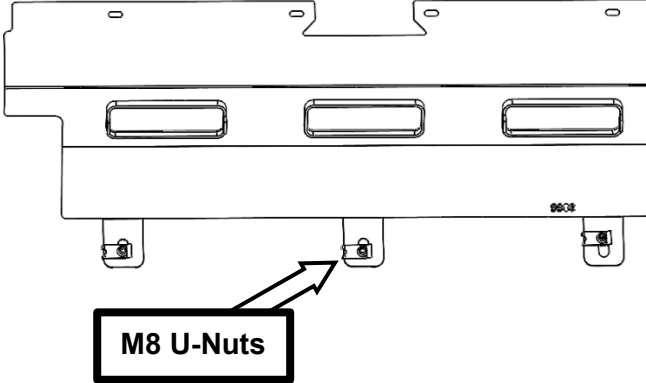
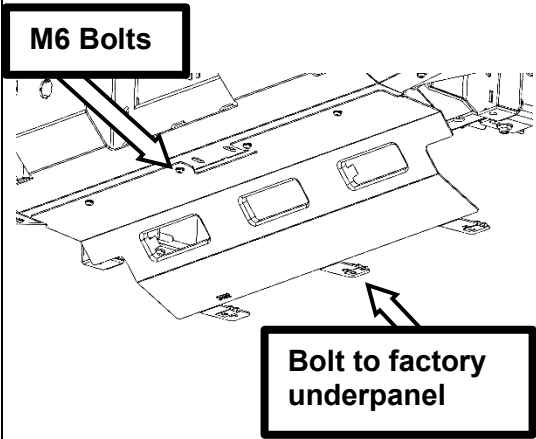


56. Plug in two factory connectors to bumper loom, one per side.



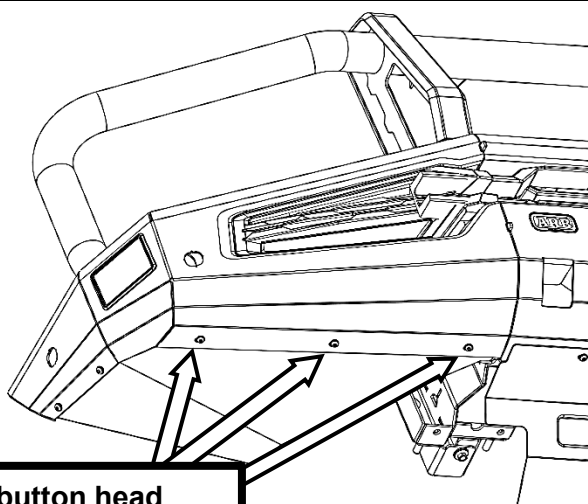
	57. Identify the outer grille section kit, 3163295.
	58. Mark both grille panels to be cut at the 880mm markings on the back face.
	59. Use a hacksaw or similar cutting tool to carefully cut the grille panel at the positions marked in the step above. Discard the off cuts and clean up the cut edges using a file or sandpaper.
BEFORE  AFTER 	60. If fitting a winch, remove grille sections shown for access to clutch lever. Cut from rear with an oscillating multi-tool. 

	61. Identify the inner grille section kit, 3163316.
	62. Assemble centre section into both outer sections, make sure clips are fully engaged.
	63. Identify and press four round plastic grommets from grille kit into the square cut-outs seen from the front of the bull bar. 
	64. Attach grille assembly to bull bar using four Torx head screws supplied in grille kit. 

	65. Install light cluster using one M6 Torx head screw. Torque to spec.  M6 - 9 Nm. Repeat for other side.
	66. Install five M6 U-nuts onto the wing under panel. RHS shown, repeat for other side.
	67. Install three M8 U-nuts to the stone tray
	68. Install stone tray using four M6 button head bolts and four M6 washers and torque to spec.  M6 - 9 Nm. 69. Use 3 factory M8 Bolts and to secure stone tray to factory under panel.



70. Insert small M6 U-nuts onto the body on both sides, behind the hole in the wheel arch lining.



71. Install wing panel using five M6 button head bolts and five M6 washers. Leave loose for now.

Repeat for other side.



72. Insert an M6x20mm flange bolt through the wing panel, wheel arch lining and into the U-nut. Repeat for other side.
73. Tighten all wing panel fasteners.

 M6 - 9 Nm.



74. Reinstall applicable clips and fasteners removed in steps 1-3.

FITTED PRODUCT

NOTICE: ONCE SUMMIT BAR IS FITTED:

- ◆ Ensure all bolts are tensioned correctly.
- ◆ All wiring is clear of sharp edges or moving surfaces and secured properly.
- ◆ Piping is secured well away from sharp or moving components.
- ◆ Check operation of winch, if fitted.
- ◆ Check all wiring and connections to turn signal lamps, sensors, headlamp washers etc. are functioning correctly.
- ◆ Misalignment of parking sensor to hole in bull bar may cause malfunction, if fitted.
- ◆ If fitted, test operation of parking sensors after fitment.

NOTE:

If parking sensors are fitted, do not add any accessories to the Bull Bar on or around the sensors, this may affect the function of the sensors.

