



FITTING INSTRUCTIONS

Part Number: **3425010**
Product **SUMMIT COMBAR LC300 | 8/210N**
Description:
Suited to vehicle/s: **TOYOTA LC300 LANDCRUISER 8/210N**
Optional Fitting **3501130 – WINCH INSTALL KIT SUMMIT**
Kits: **3501135 – WINCH INSTALL KIT SUMMIT MKII SUIT LC300 UNDER TERRAIN VIEW**
3500520 – ARB FOG LOOM (For vehicles not fitted with factory fog lights)
3163222 – PARKING SENSOR BLANK PAIR (2 pairs required if no sensors are fitted)

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	RIGHT ANGLE ELECTRIC DRILL WITH METRIC DRILL SET
OSCILATING MULTITool WITH BLADE SUITABLE FOR PLASTIC	LOW TACK MASKING TAPE
FILE	UTILITY KNIFE
TAPE MEASURE	RIVNUT GUN TO SUIT M6 RIVNUTS
STEEL RULE	WHITE FELT MARKER
HACK SAW	TORQUE WRENCH
TOUCH UP PAINT ANTI CORROSION	

HAVE AVAILABLE THESE SAFETY ITEMS WHEN FITTING PRODUCT:

Protective eyewear



Hearing protection



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 (PC8.8)	44Nm	32lbft
M10 (PC11.9)	54Nm	40lbft
M12 (PC8.8)	77Nm	57lbft
M12 (PC11.9)	102Nm	75lbft

PARTS LISTING			
APPLICATION.	PART NO.	QTY	DESCRIPTION
FIT MOUNTS TO CHASSIS	3753113 L&R	1 PR	OUTER CHASSIS BRKT SUIT LC300
	3753114 L&R	1 PR	INNER CHASSIS BRKT SUIT LC300
	4655145 L&R	1 PR	WELDED ASSY CHASSIS MOUNT SUIT LC300
	4617103	2	CHASSIS CRUSH TUBE
	4584361	4	WASHER FLAT M10x25x4 HV300 TZP480
	4584363	18	WASHER FLAT M12x26x4 HV300 TZP480
	6152092	2	BOLT HXHD M12x1.75x100 PC10.9 ZAS1000
	6151528	2	NUT HEX NYLOC M12x1.75 PC10.9 ZP
	6151700	12	BOLT HXHD FL M12x1.25x35 PC8.8 TZP480
	6151480	8	NUT FLANGE M12x1.25 PC8.8 TZP480 SERRATED
	6151321	2	NUT FLANGE M10x1.5 PC8.8 TZP480 SERRATED
FIT BAR TO MOUNTS	6151638	2	BOLT HXHD FL M10x1.5x40 PC8.8 TZP480
	3195470	6	PACKER CHASSIS MOUNT SUIT LC300
	4584363	12	WASHER FLAT M12x26x4 HV300 TZP480
	6151969	4	NUT FLANGE M10x1.25 PC10.9 ZAB1000
	6151815	4	BOLT HXHD FL M10x1.25x40 PC11.9 ZAB1000
	6152023	6	NUT FLANGE M12x1.25 PC10.9 ZAB1000
	6151817	6	BOLT HXHD FL M12x1.25x40 PC11.9 ZAB1000
	6151173	4	NUT FLANGE M6 ZNB480 SERRATED
	6151550	4	BOLT HXHD M6x1.0x25 PC8.8 BTZP480
	4584380	12	WASHER FLAT M10x22.9x2 HV300 BTZP480
	4584378	8	WASHER FLAT M6x16x1.2 HV300 BTZP480
	6151965	6	BOLT HXHD FL M10x1.5x30 PC8.8 ZNB480
	6151752	6	NUT FLANGE M10x1.5 PC8.8 BTZP480
FIT DUCT BOXES	4681753	1	BRACE CROSS SUIT LC300
	3163351 L&R	1 PR	DUCT ASSY LH&RH SUIT LC300
	3753572 L&R	1 PR	RAD SUPPORT BRKT LH&RH SUIT LC300
	3753573	2	RAD SUPPORT BRKT SUIT LC300
	6821189	2	GROMMET RND FC 1500 080 090
	6151384	2	SCREW ST PHD 5.2X16
FIT LIGHTS AND MOULDINGS	6253415	8	SPACER 5.6 X DIA 9 ZNB480
	3163294	1	COVER STRAP KIT SUMMIT
	3163295	1	OUTER GRILLE KIT SUMMIT
	3163289	1	GRILLE CENTRE, SUIT SUMMIT
	3500991	1	ARB LAMP CLUSTER KIT SUMMIT
	3753105	2	BRKT GRILL MOUNT
	3753106	2	BRKT LIGHT MOUNT
	6151300	2	NUT CAGED M6 2.6-3.5 956-C
	6151180	4	BOLT HXHD M6x1.0x20 PC8.8 TZP480
	4584378	4	WASHER FLAT M6x16x1.2 HV300 BTZP480
	6151173	12	NUT FLANGE M6 ZNB480 SERRATED
	6151443	4	SCREW BHD M6x20 BZP
	4584329	8	WASHER FLAT M6x12.2x1.2 BTZP480
	3753108	1	BRKT CAMERA MOUNT SUIT LC300
	37500836	1	BRKT CAMERA MOUNT SUIT SAHARA 300
	37500823	1	BRKT CAMERA MOUNT SUIT UPDATED LC300
	3195904	1	PLATE BACKING TOYOTA CAMERA
	3525010	1	SENSOR SURROUND KIT
	6151560	2	BOLT HXHD M6x1.0x16 PC8.8 TZP480
	6152094	2	SCREW PHD M6X1.0X30 PC8.8 TX ZNB480
FIT STONE GUARDS	6523539	1	PANEL STONE GUARD SUIT LC300
	6523540 L&R	1 PR	WING UNDER PANEL SUIT LC300
	3753107	2	BRKT UNDER PANEL
	3753288 L&R	1 PR	AIR DEFLECTOR LH&RH SUIT LC300
	6151300	12	NUT CAGED M6 2.6-3.5 956-C
	6151550	16	BOLT HXHD M6x1.0x25 PC8.8 BTZP480
	4584378	12	WASHER FLAT M6x16x1.2 HV300 BTZP480
	4584329	6	WASHER FLAT M6x12.2x1.2 BTZP480
	6151459	6	SCREW BHD M6x16 BTZP480
	6151278	2	NUTSERT, M6, CRIMPED
	6151173	6	NUT FLANGE M6 ZNB480 SERRATED
MISCELLANEOUS	180302	8	CABLE TIE 4.8 X 180 MM BLACK
	6191033	2	EXTRUSION PINCH WELD 412mm
	6523369	1	PRESS FORM WINCH COVER PANEL
	6151550	6	BOLT HXHD M6x1.0x25 PC8.8 BTZP480
	6151173	6	NUT FLANGE M6 ZNB480 SERRATED
	4584329	4	WASHER FLAT M6x12.2x1.2 BTZP480
	6821437	1	WIRING HARNESS
	37801107	1	CUTTING TEMPLATE
	5848302	2	PACKER RB NYLON

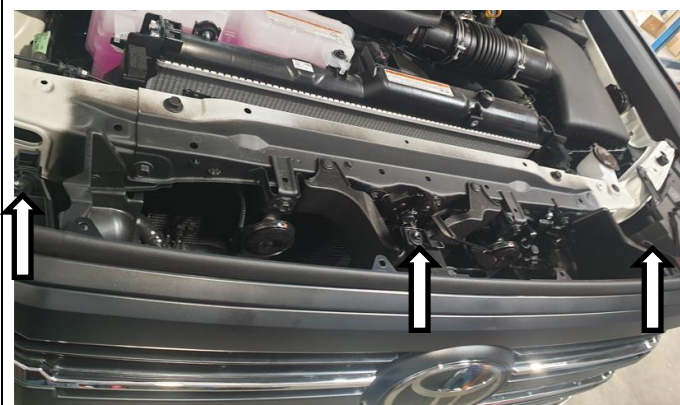


Note: Read the instructions thoroughly before starting.

1. Open bonnet and remove the seven clips holding the radiator cover panel by depressing the centre of the clips as shown. Retain clips for re-fitment later.



2. Disconnect the plugs for the grille wiring harness on the top RHS of the vehicle.
If vehicle is equipped with headlight washers, disconnect the washer hose on top LHS of the vehicle.

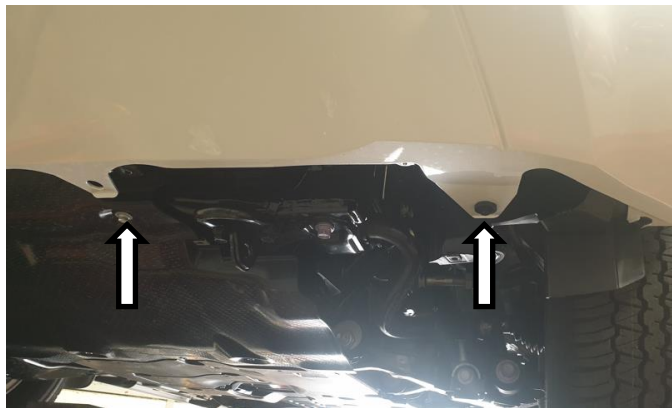


3. Remove the three top bolts holding the grille using a 10mm socket. Retain bolts for re-fitment later.



4. Remove the two black plastic covers on the underside of the bumper and discard. These have seven screws holding them on.





5. Remove the four bolts holding the underside of the bumper and discard.

Remove the OE stone shield and retain the bolts for later.



6. Remove the scrivets and allen head screws holding the front half of the wheel arch trims in place.



7. Carefully peel back the wheel arch liner on the bottom corner as shown.

Unclip the two clips on the bottom of the wheel arch trims.



8. Carefully unclip the front half of the wheel arch trims.



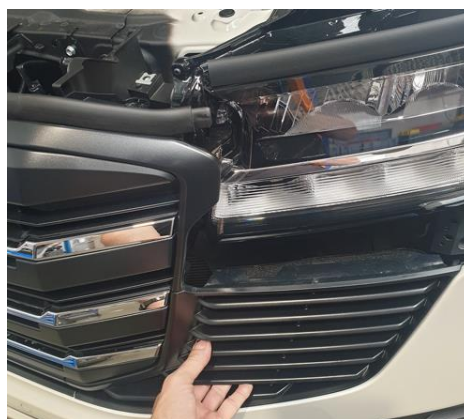
9. Remove the one scrivet on each side of the bumper as shown and retain for re-fitment later.



10. Carefully unclip the sides of the bumper as shown.

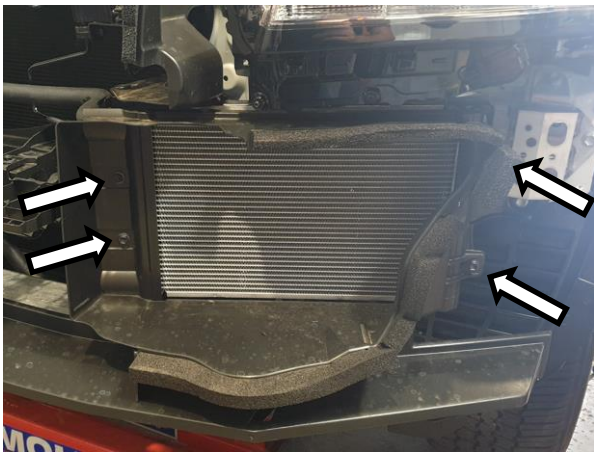


11. Pull the grille below the headlight in the position shown and unclip.



12. The front bumper can now be removed and set down on a soft surface to protect the paint.

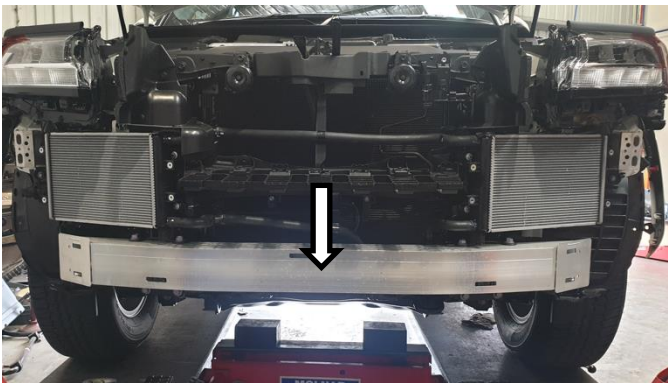




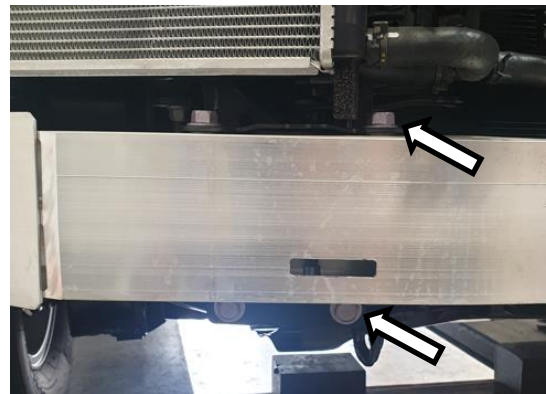
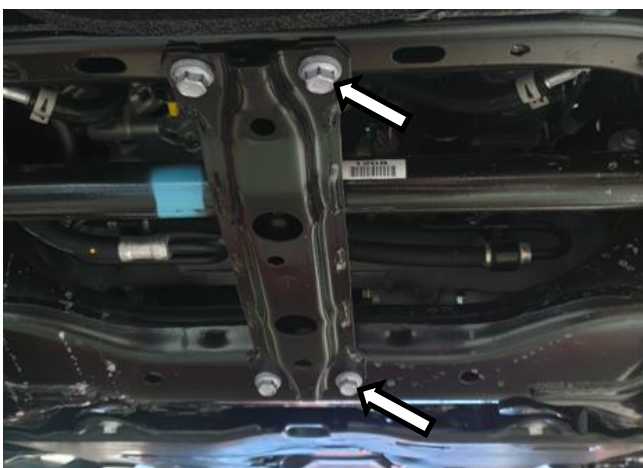
13. Remove the two radiator ducts and keep the 8x bolts for re-use later.



14. Unclip the plastic bumper reinforcement and discard.



15. Remove the 8x bolts retaining the aluminium crash beam and discard the bolts and beam.



16. Remove the chassis brace.
Retain the brace and bolts for re-fitment later.

Warning: Leave this brace attached on GR Sport models as it is supporting the E-KDSS sway bar.



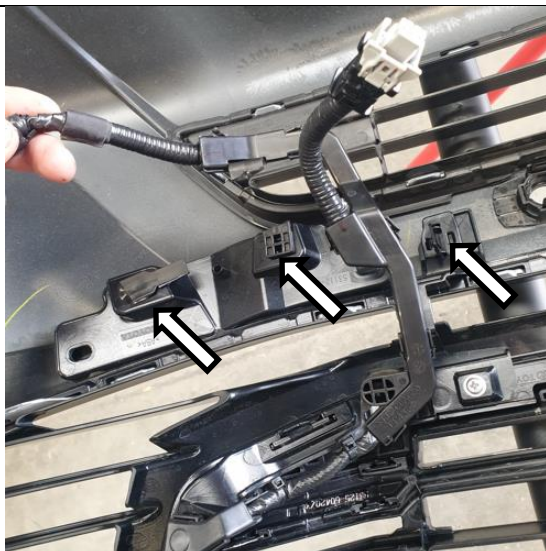
17. Place the bumper face down on a soft surface.



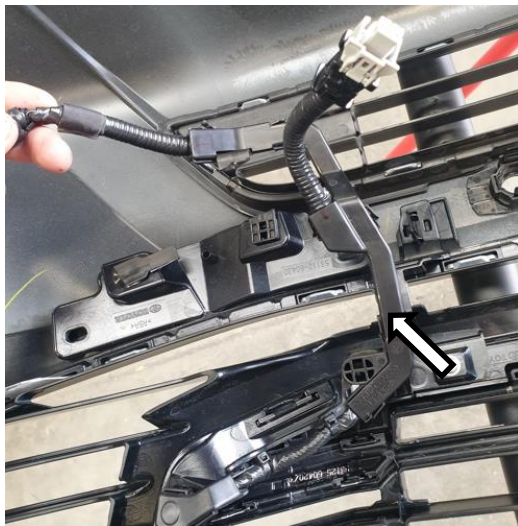
18. Unplug the four parking sensors as shown. Remove the parking sensors from the housings and set aside for fitment into the bull bar. Using a felt pen mark the sensor positions (LH/RH inner, LH/RH outer).



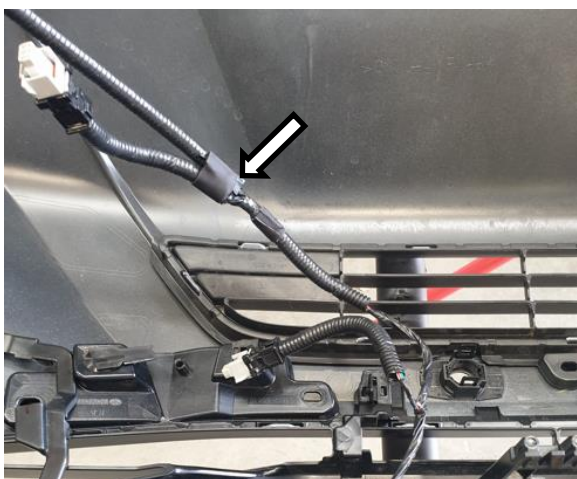
19. If equipped with fog lights, disconnect them. Remove front camera (if equipped) and set aside for fitment to the bull bar later.



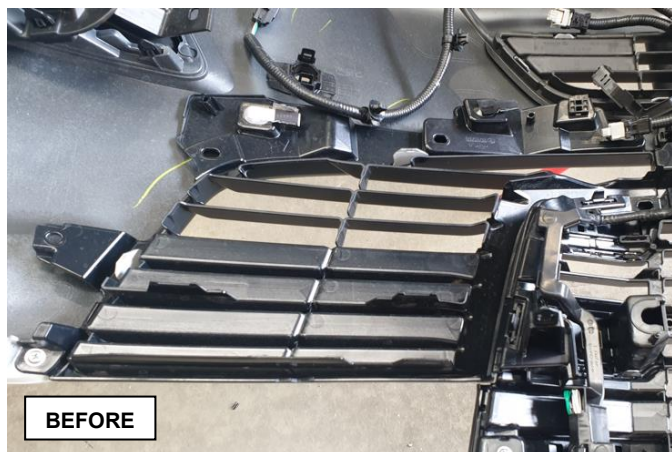
20. Unclip the harness from the lower section of bumper. Arrows in image show some of the clip positions.



21. Remove the plastic moulded loom protectors on the parking sensor looms. Clips need to be cut with side cutters as shown below:

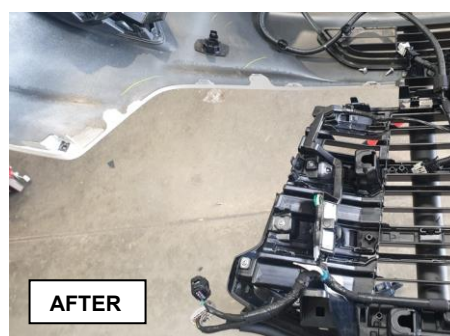


22. Parking sensor loom should now look like this.

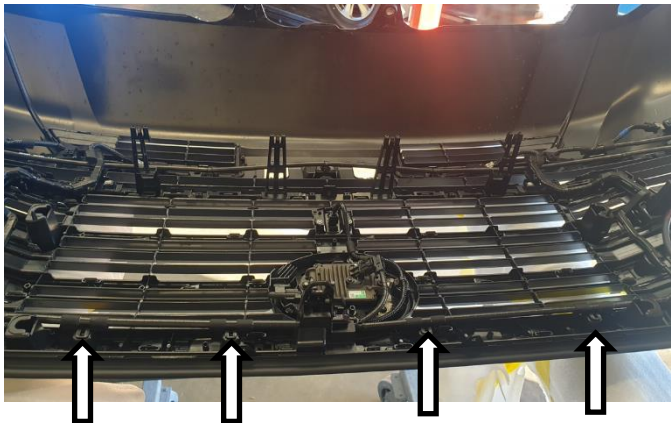


Steps 23-33 refer to the standard bumper. Skip to step 34 for GR Sport & Sahara ZX bumper trim

23. Remove and discard the outer grille

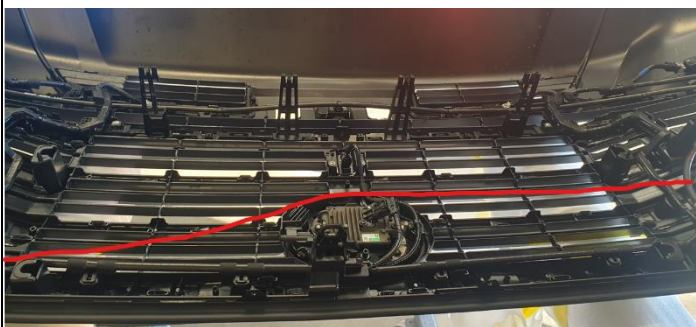


sections.



24. For vehicles fitted with a front camera the grille harness needs to be relocated.

Remove the tape that secures the loom to the top of the grille in the areas marked.



25. Relocate the loom as shown.

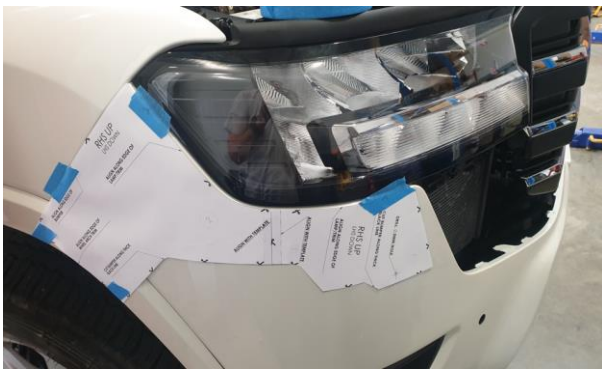


26. Feed the camera loom out the hole that the camera was mounted in.

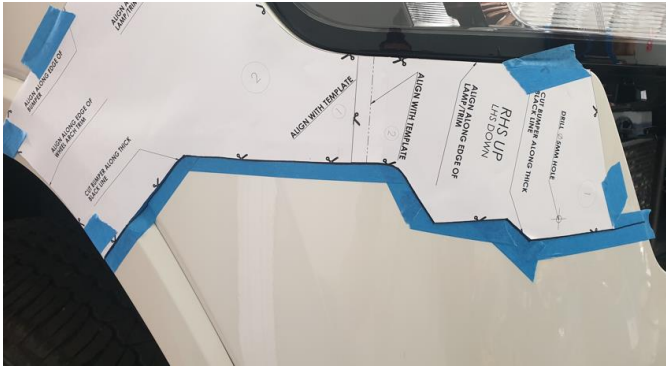


27. Refit the bumper to the vehicle for bumper trimming. Fasten the grille with the original M6 bolts removed in step 3.

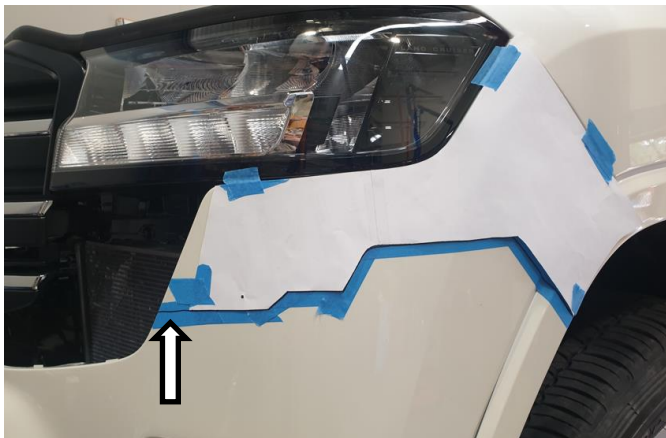
 M6 - 9 Nm.



28. Fit the cutting template as shown.



29. Attach masking tape behind the trim edge on the template and mark the trim line with a permanent marker.



30. Remove template and repeat on other side of vehicle.

Note: template is used for several model variants. Continue the trim line beyond the template in a straight line shown at the arrow.



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



31. Using an oscillating multi-tool carefully cut the bumper along the marked line. Trim through the wheel arch trim as well as the bumper.

Once both sides are cut, unclip the lower section of bumper from the grille and discard the bumper.

Mark the black plastic bumper support block behind the bumper as shown below.

Remove the bumper and trim the bumper support block. Reinstall bumper.

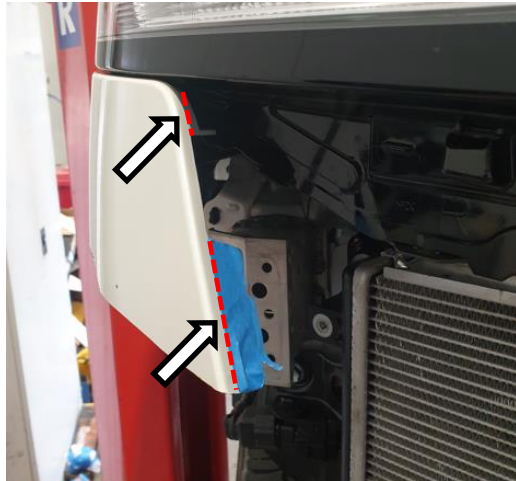
Use template to drill Ø5mm hole.

Note: It is recommended to paint the inside of the bumper trim area (shown





with arrow in top left image) with black paint on light coloured vehicles.



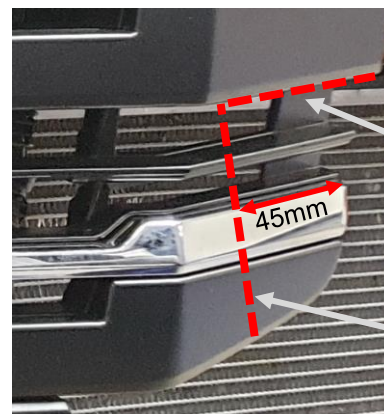
32. Mark a straight line on the bumper and carefully trim off the tabs as shown using an oscillating multi-tool.



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

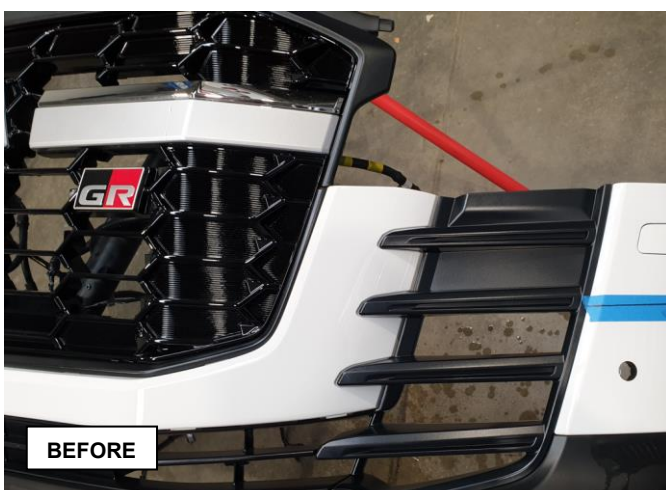


33. Mark and trim the bottom corners of the grille as shown. Skip to step 43.



Trim level with underside of grille

Trim perpendicular to top trim line



BEFORE

For GR Sport and Sahara ZX models:

34. Unclip and remove the grille section.



AFTER



35. Mark the bumper using the cutting template as per steps 28-30.



36. Mark the edge of the bumper as shown.
Trim the bumper using an oscillating multi-tool.
Use template to drill $\varnothing 5\text{mm}$ hole.
Reverse template to repeat for other side.



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

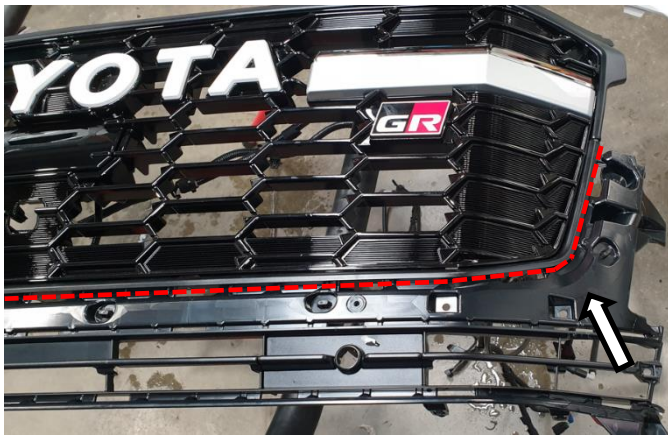


37. Fit the trimmed bumper sections.

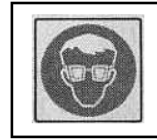
Note: It is recommended to paint the inside of the bumper trim area (shown with arrow) with black paint on light coloured vehicles.



38. With the bumper trimmed, unclip the lower section of bumper from the grille.
Discard the lower bumper section.



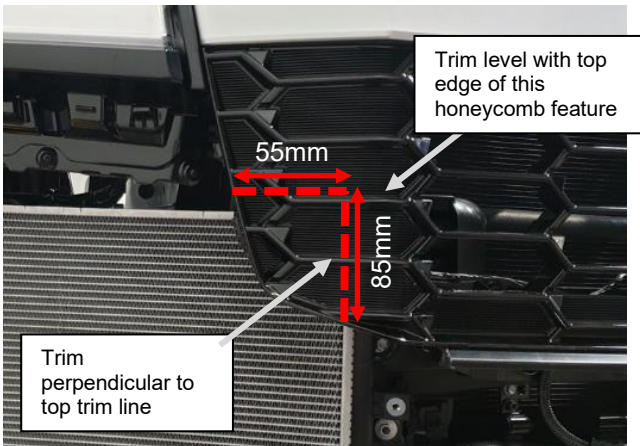
39. Trim along the sides and bottom of the grille to remove the excess plastic using an oscillating multi-tool.



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



40. Clip the grille back on the vehicle. The grille should have the edge profile as shown below:



41. **For GR Sport grille:** Mark the grille lower corners as shown.

For Sahara ZX grille: Mark the lower grille corners as per step 33.

Trim the grille using an oscillating multi-tool.

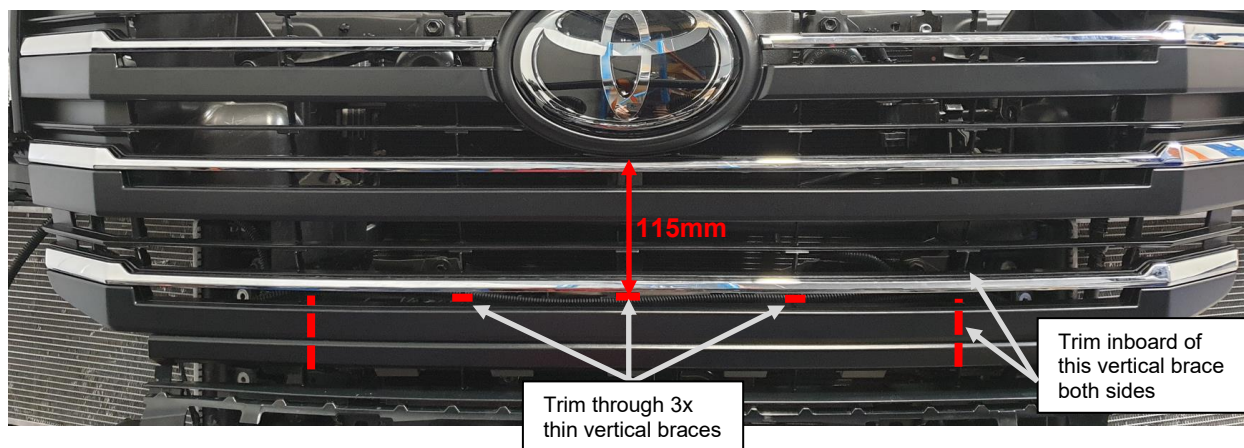


42. Trimmed GR Sport grille should now look like this:

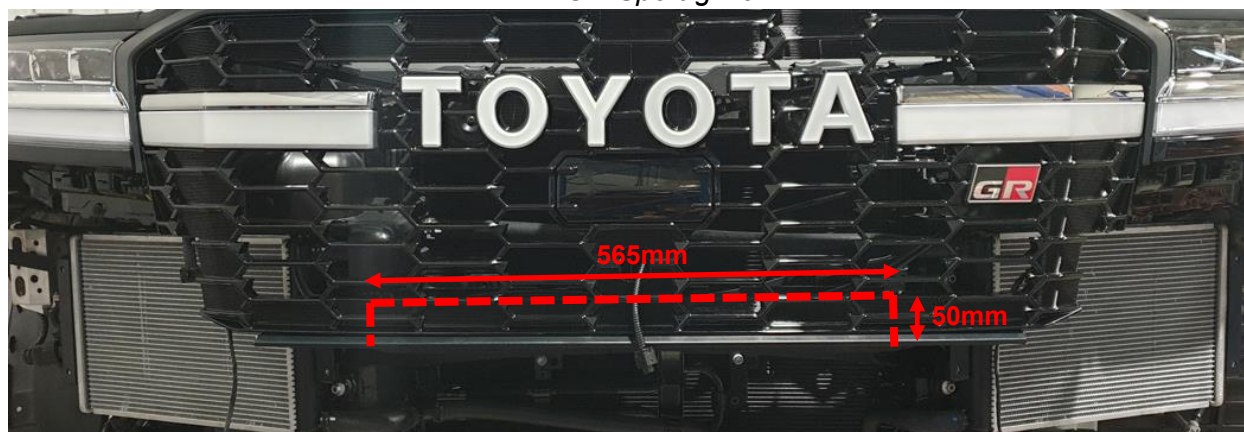


43. If fitting a winch, trim the lower centre part of the grille as shown. If no winch is being fitted skip to step 44.

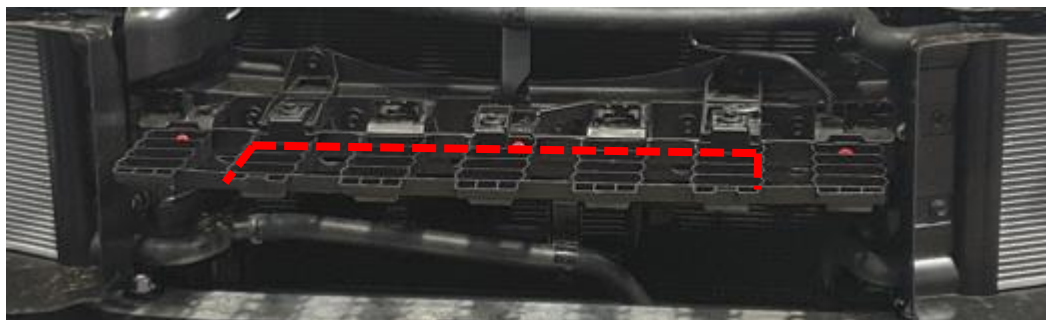
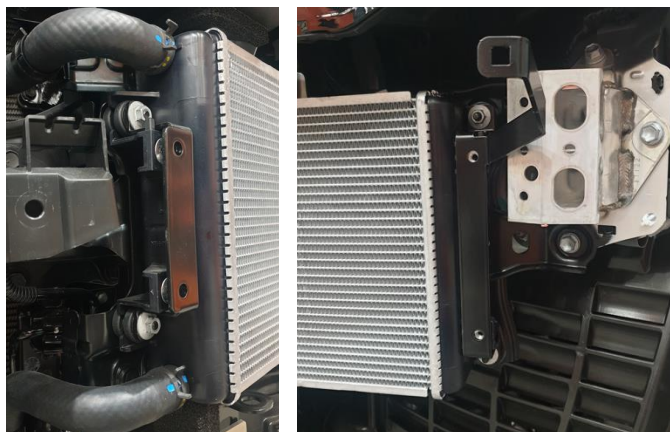
GX, GXL, VX & SAHARA VX grille:



GR Sport grille:

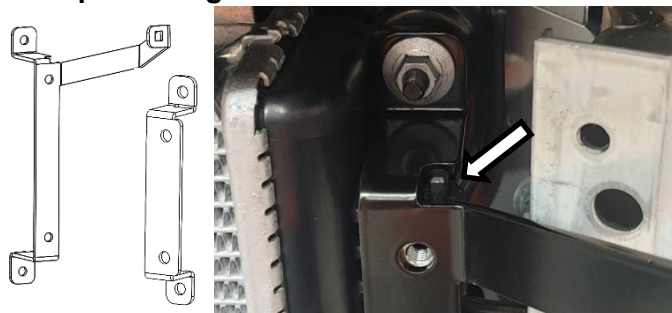


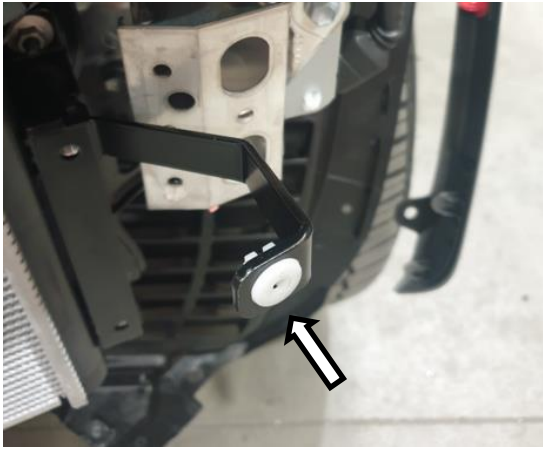
Note: The grille support will need to also be trimmed back when cutting the grille.



44. Remove the nuts securing the radiators and fit the inner and outer radiator support brackets as shown using the original nuts.

Note: Brackets are notched to fit around plastic lugs on radiators.





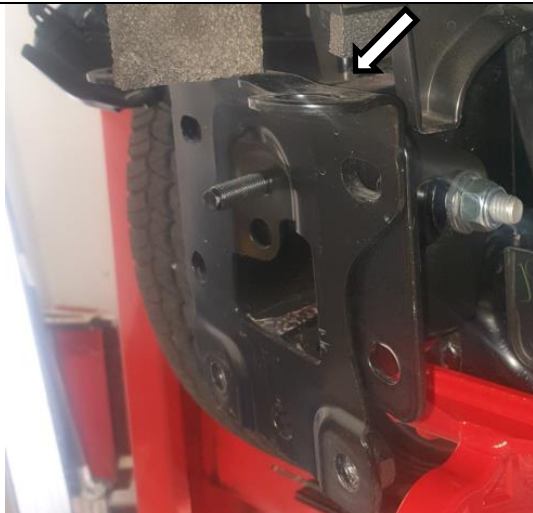
45. Using a self-tapping screw and plastic grommet, attach bumper to outer radiator brace.



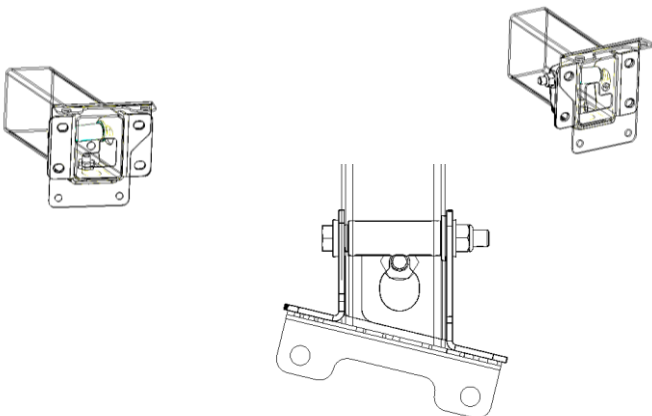
46. Fit pinch weld to the trimmed bumper as shown.

Using side cutters trim a notch at the back to fit around the transition between the wheel arch trim and the bumper.

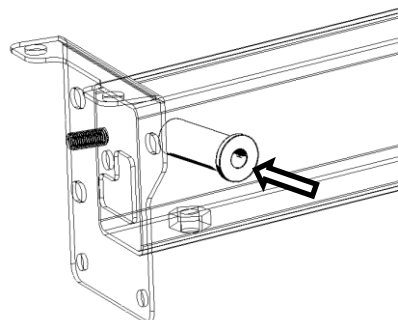
Trim the excess pinch weld off each end.

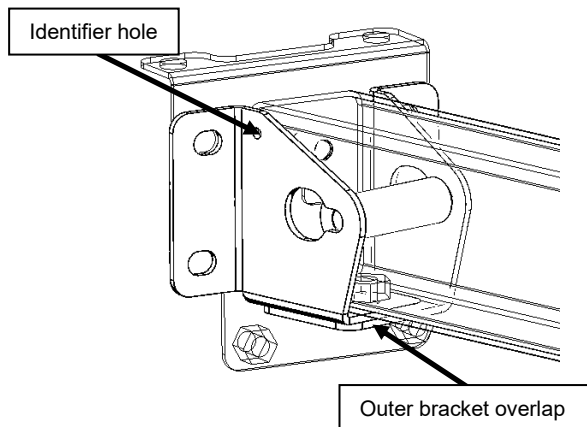


47. Using a shifter spanner bend the inner tab on each chassis end plate upwards as shown.



48. Fit the crush tubes to the chassis with the crush tube shoulder sitting on the inside of the chassis.

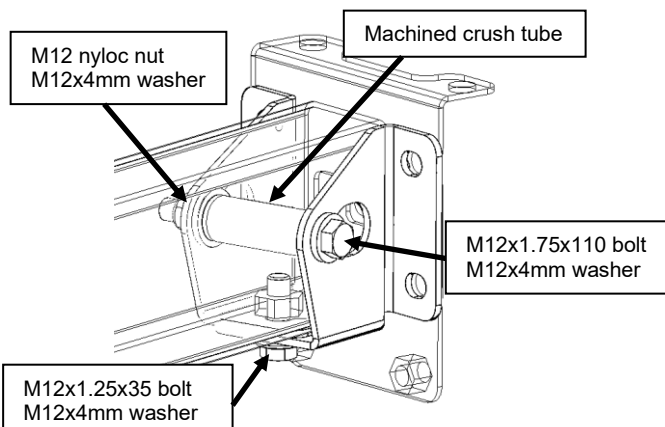
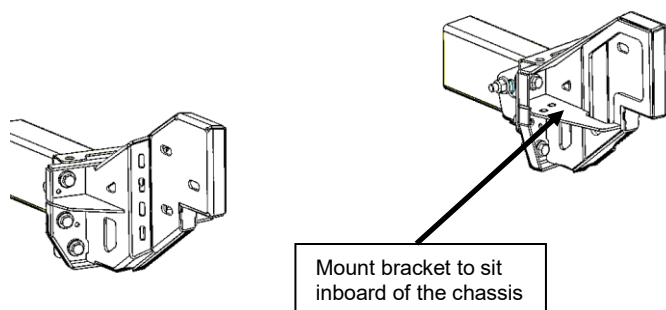




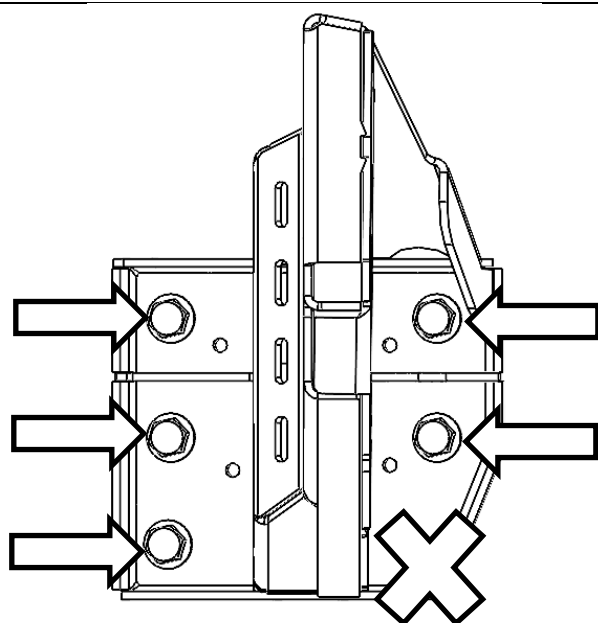
49. Assemble the four chassis brackets as shown. Leave finger tight for now.

The bottom bolt should be installed first to make the assembly process easier.

Note: Inner brackets have the identifier hole and the outer bracket overlaps the inner bracket underneath.

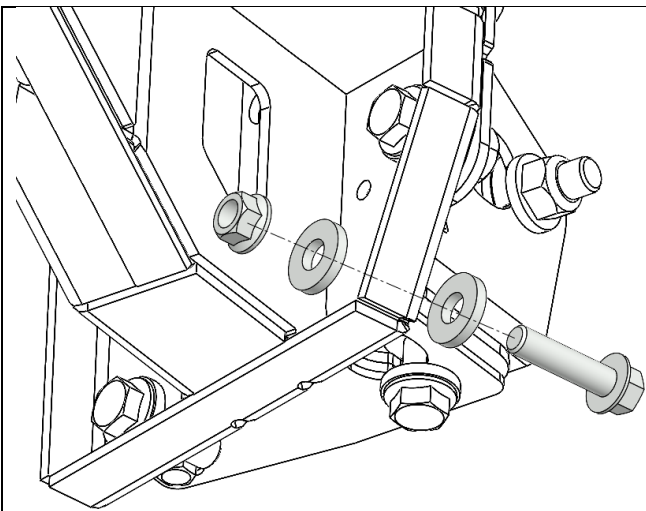


50. Assemble the chassis mounts to the chassis end plates using the fasteners shown in step

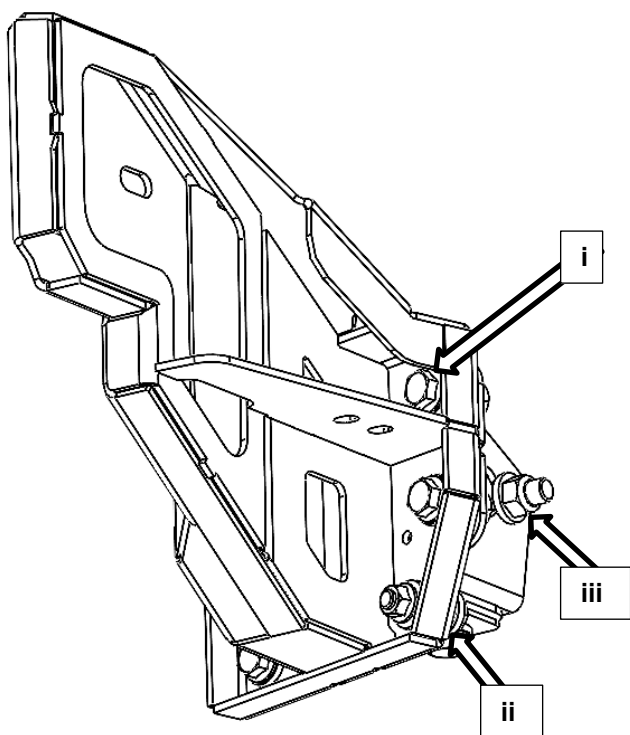


51. Fasten each mount to the chassis with five M12 x 1.25x35 flange bolts, five 4mm washers & five flange nuts.

Note: Leave lower inner hole empty.



52. Assemble one M10x1.5x40 flange bolt, two M10x25 washers and one M10x1.5 flange nut through the lower inner mounting position.
- Repeat on opposing side.



53. Tension mounting hardware to specification in the order illustrated.

- i.  M12 (PC8.8) - 77 Nm.
- ii.  M10 (PC8.8) - 44 Nm.
- iii.  M12 (PC10.9) - 92 Nm.

GR SPORT WARNING:

IF FITTING A WINCH TO A GR SPORT MODEL THE WINCH CONTROL BOX MUST NOT SIT PROUD OF THE UPPER PAN ON THE BULL BAR. IT MUST SIT FLUSH OR BELOW TO AVOID RADAR MALFUNCTION.

WARN VR EVO, WARN PLATINUM & WARN ZEON HAVE BEEN CONFIRMED NOT TO AFFECT RADAR OPERATION WHEN FITTED AS PER INSTRUCTIONS 37801131.

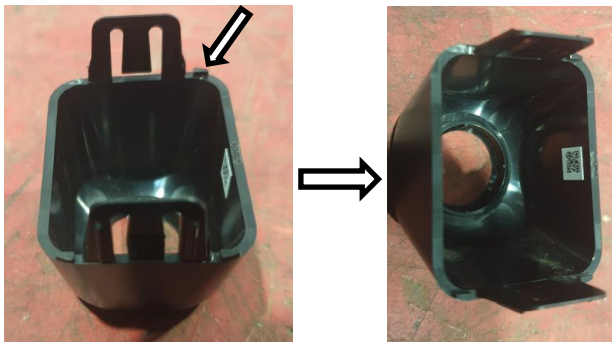
MOUNTING ANY CONTROL BOX ABOVE THE UPPER PAN OF THE BULL BAR MAY AFFECT THE RADAR PERFORMANCE.



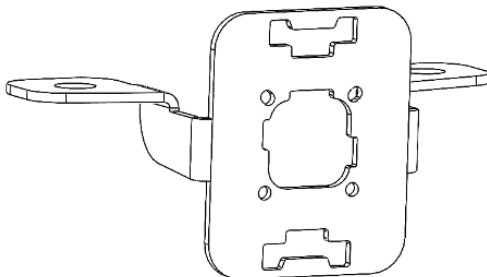
54. If relocating a front camera, continue from here. If there is no front camera, skip to step 68.

Separate steel bracket from back of camera by removing two Philips head screws and depressing shroud clips.

55. Discard the mounting bracket.



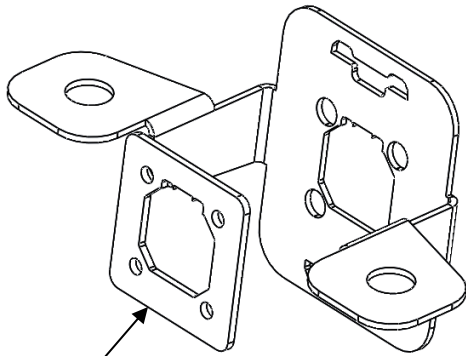
56. Carefully file off the four lugs on the back of the camera cover.



57. If fitting to a MY21 to MY24 skip to Step 59.
58. If fitting to a MY25 ON GX, GXL VX and GR-S skip to Step 61.
59. If fitting to a MY25 ON Sahara, identify camera bracket shown on the left.



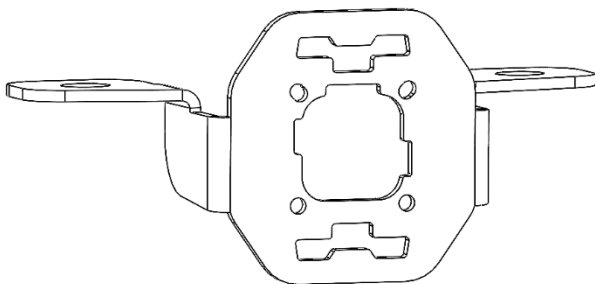
60. Mount the camera to the bracket using the original screws and install the plastic cover as shown.



Backing Plate

MY21 to MY24

61. Identify camera bracket and backing plate shown on the left in the bag kit.
62. Mount the camera into the ARB relocation bracket to using the original screws and supplied backing plate. Install the plastic cover.

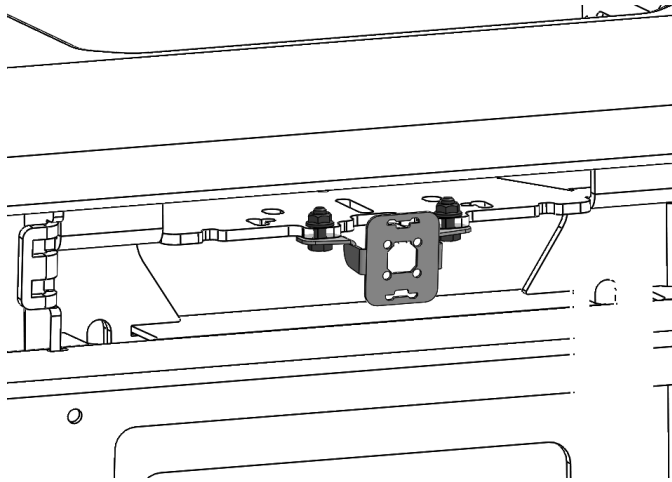


MY25 ON GX, GXL VX and GR-S

63. Identify camera bracket shown on the left.
64. Mount the camera to the bracket using the original screws.



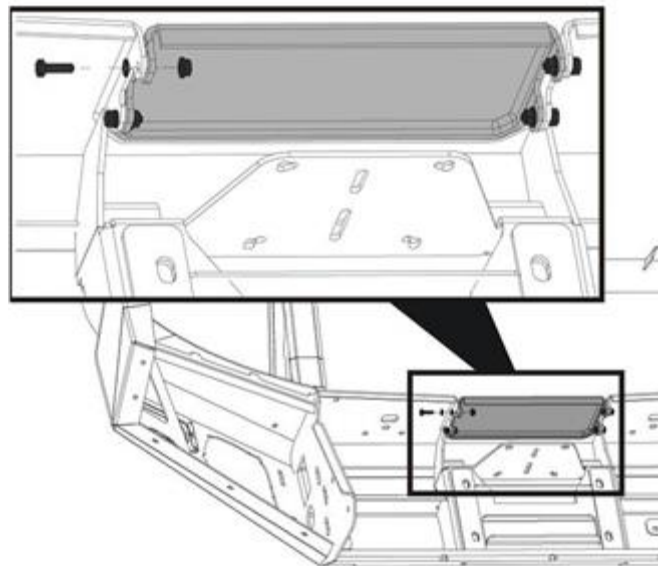
65. Install the plastic cover.



66. Install the camera to the winch cradle as shown using two M6x16 bolts, washers and flange nuts.
Connect the camera plug to the camera.

Note: camera not shown in image

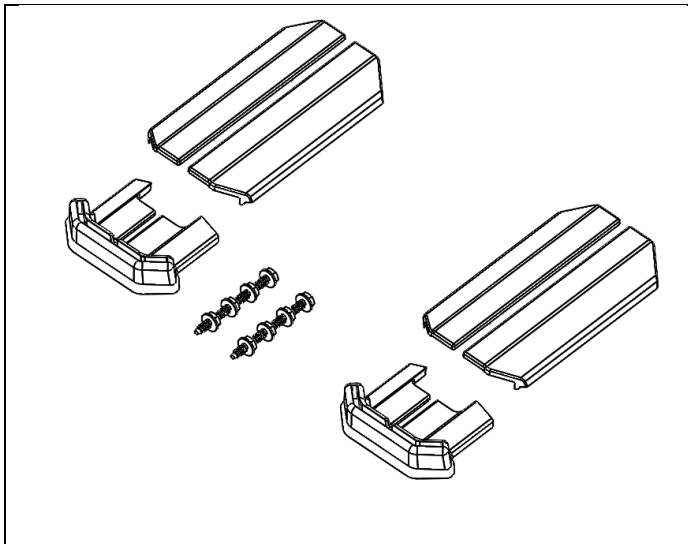
67. Route the grille wiring loom through the bull bar and connect to the 4x parking sensors



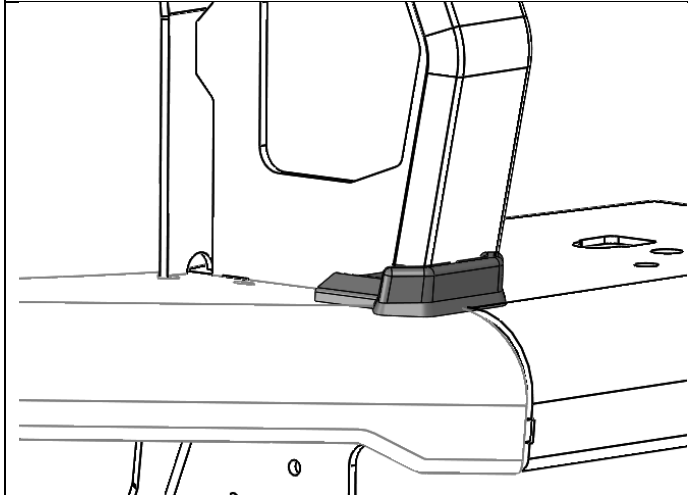
68. If fitting a winch refer to instruction 37801131 supplied with winch fitting kit 3501130.

If not fitting a winch, assemble the winch cover panel to the bar using four M6 x 20 hex bolts, 12mm flat washers and nyloc nuts.

 M6 - 9 Nm.

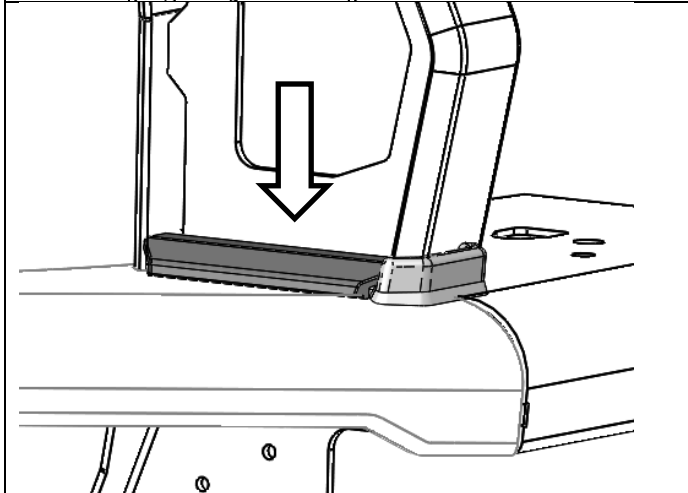


69. Identify the cover strap plastics kit, 3163294.

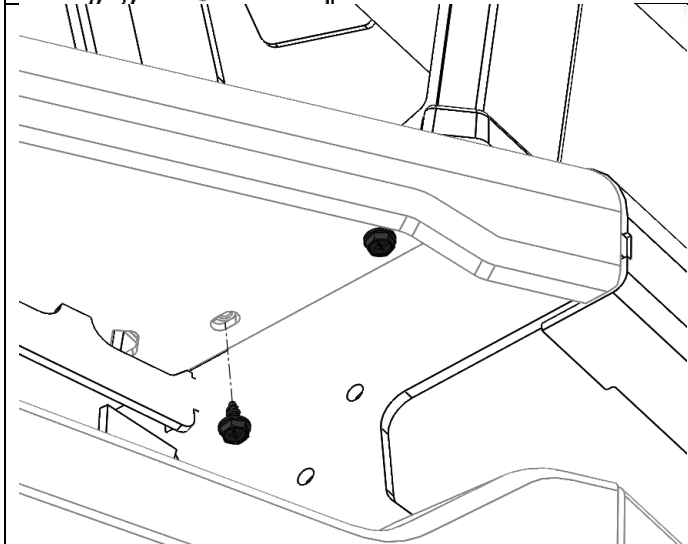


70. Fit the rubber intersection mouldings to the base of each upright cover strap.

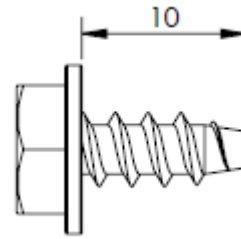
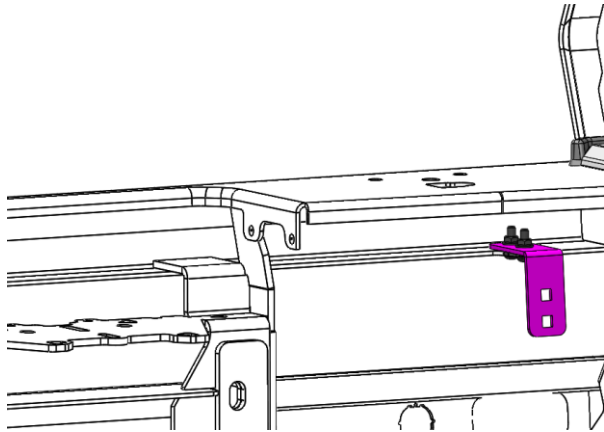
Ensure that the skirt of the rubber moulding is not folded back on itself and is sitting flat against the bull bar.



71. Place the plastic cover down onto the rubber moulding, repeat on both sides of the cover straps.

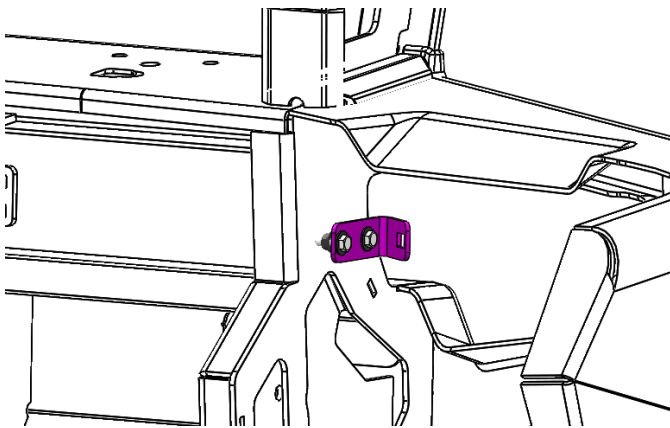


72. From underneath, fit two screws into each plastic cover. Tighten until the covers are secure and have firmly clamped the rubber moulding.



73. Assemble both grille retaining brackets onto the inside of the upper pan with M6x20 pan head screw, 12mm washer and flange nut. Torque to specification.

 M6 - 9 Nm.

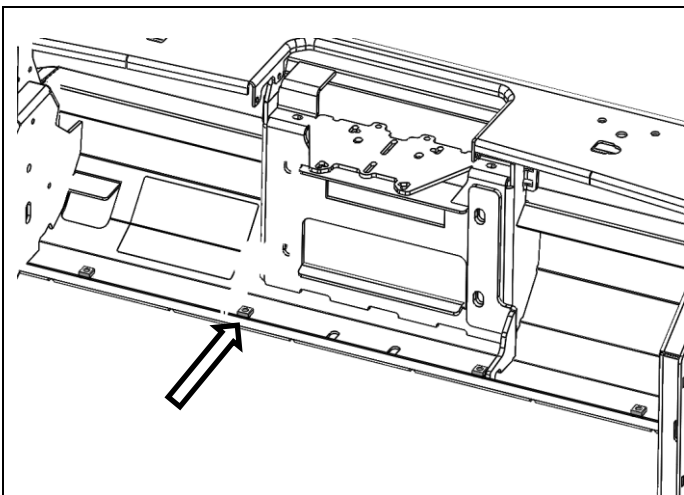


74. Assemble both fog cluster mounting brackets onto the outside of the uprights with two M6 flange bolts, washers and flange nuts. Torque to specification.

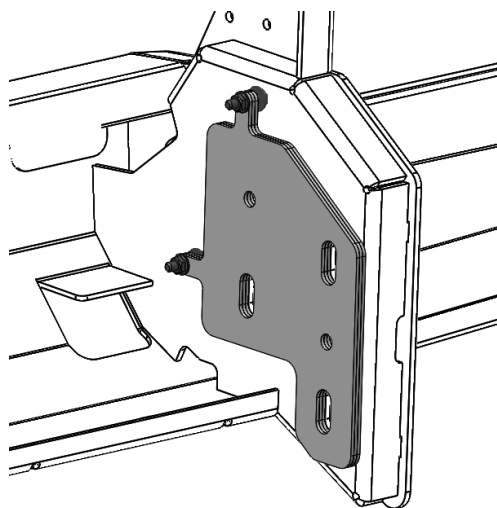
 M6 - 9 Nm.



75. Assemble M6 cage nuts into both fog cluster mounting brackets.



76. Assemble four M6 cage nuts into lower return of bull bar pan.

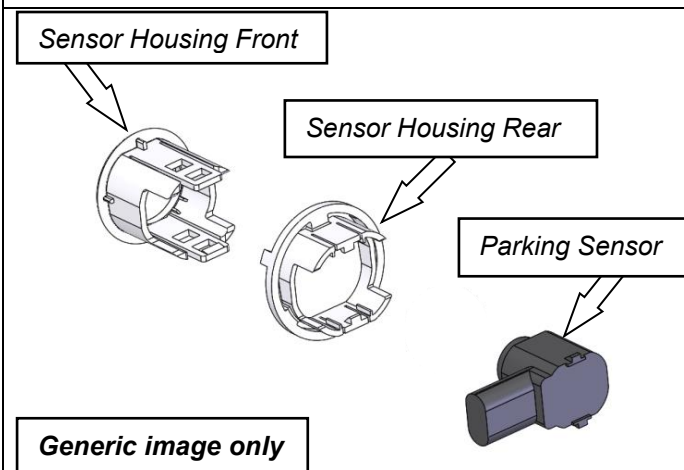


77. Use a tape measure to check the distance across the two internal mounting faces of the bull bar.

Similarly measure the distance between the mounting faces on the chassis mounts.

Select an appropriate number of 2.5mm shims to take up the difference in the two dimensions taken and pre assemble onto bull bar uprights using M6x25 bolts, washers and flange nuts.

(2-3 shims per side should achieve a smooth sliding fit between bull bar and mounts).



78. Fit the four Sensor Housing Fronts to the bull bar. Placing the housing through the bar from the front of the vehicle.

From the rear of the bar clip the Sensor Housing Rear to the Front Housing. Check that both clips are engaged properly. If clips don't engage apply pressure on the outer ring of the Rear Housing.



79. Clip the sensors into the housings removed in step 18. Check that both clips are engaged properly.

Note: Tails for sensors should face the bull bar uprights.

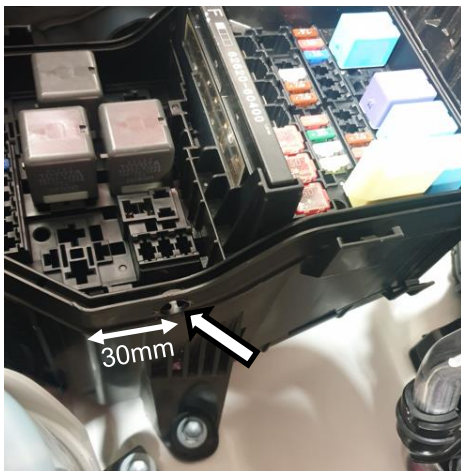


Installation of wiring harness

80. Steps 81-93 refer to fitment of the long loom pictured here.



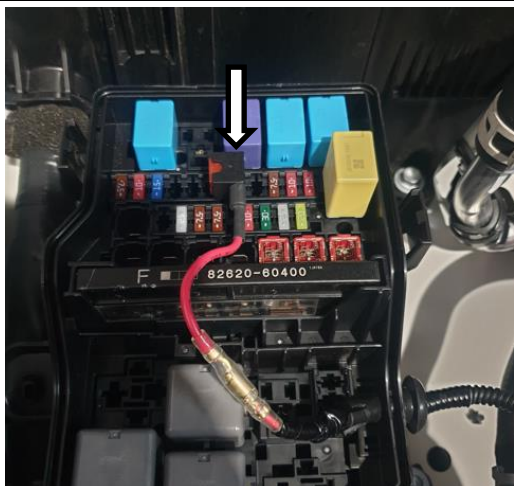
81. Remove the RH fuse box cover in the engine bay



82. Drill a $\varnothing 10\text{mm}$ hole on the top flange, 30mm from the corner of the fuse box as shown.



83. Feed the end of the loom through the hole and firmly seat grommet in hole.



84. Insert fuse adapter to the 5th fuse slot from the right in the top row as shown.

Plug the power cable into the bullet connector.



85. Drill a $\varnothing 10\text{mm}$ hole on the bottom flange, 30mm from the corner of the fuse box cover as shown. This must match up the the hole drilled in the fuse box



86. Trim the fuse box cover as shown using side cutters.



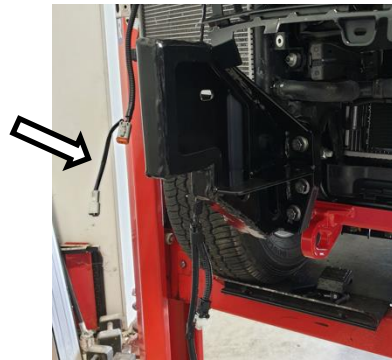
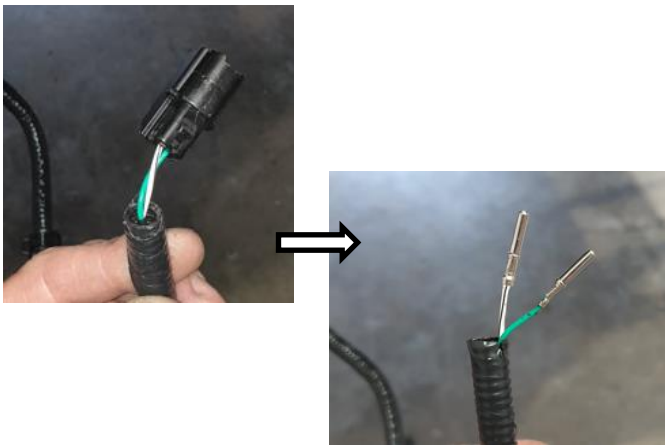
87. Refit the fuse box cover as shown.



88. Connect the earth eyelet to the body of the vehicle beside the fuse box using an M6x25mm bolt and washer.



89. Feed the loom down behind the vehicle grille and route across the chassis mounts as shown. Light connectors sit on the outside of the chassis mounts.



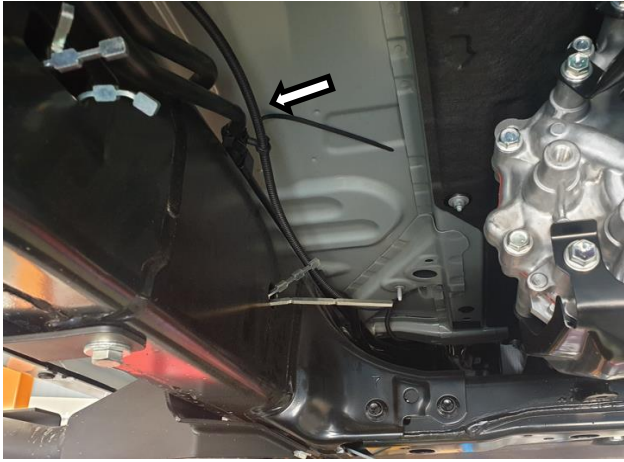
90. If the vehicle comes with OE fog lights, cut the OE connector off the loom and fit the Deutsch connectors as shown. If there were no OE fog lights on the vehicle, use ARB harness 3500520.



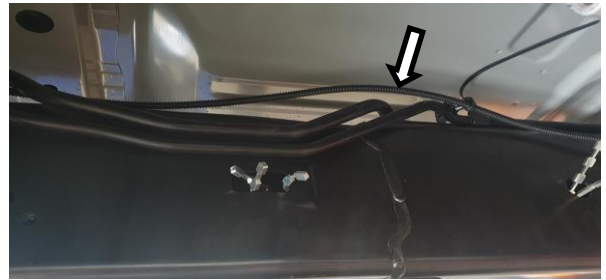
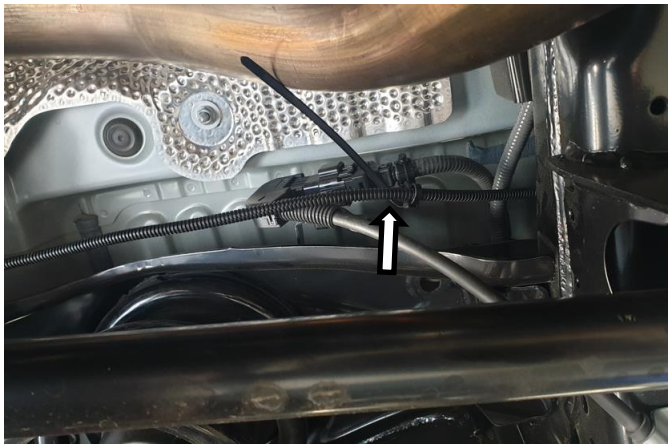
Pin 1: Green
Pin 2: White/Black



91. Route the loom over the upper control arm on the LHS of the vehicle.



92. Route the loom on top of the LHS chassis rail all the way to the rear of the vehicle, using the supplied cable tie clips to secure the loom to the brake lines.



93. Feed the loom up and away from the exhaust and secure it with a cable tie clip.



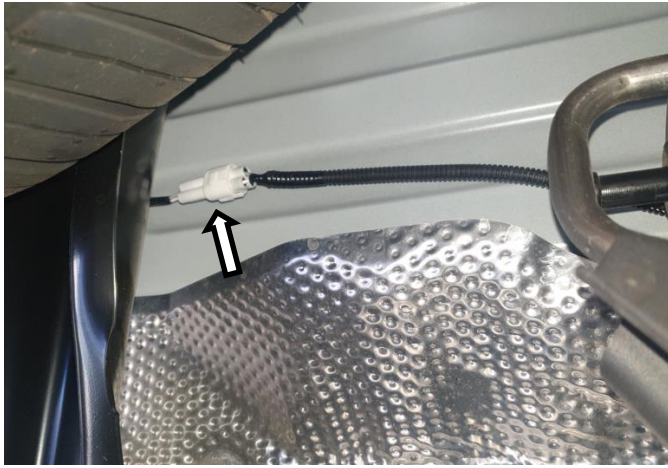
94. Peel the corner of the rear exhaust heat shield down to expose the connectors.

Remove the cover from the large connector as shown.



95. Connect the small fused loom to the rear connector exposed in step 94.





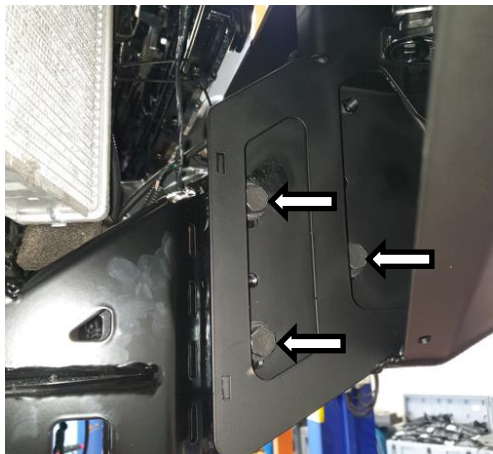
96. Connect the other end of the fused loom to the main loom as shown. Secure away from the exhaust with cable tie clips.



Fitment of bull bar to vehicle

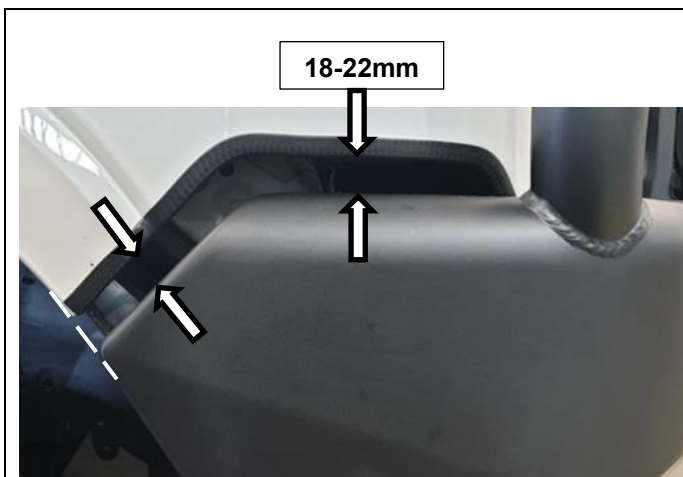
97. With the assistance of another person, place the bar on the vehicle mount brackets.

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.



98. With the bull bar sitting in place, fit 3x black M12x1.25x40 (PC11.9) flange head bolts, M12 washers and M12 black flange nuts per side.

Leave finger tight for now.



99. Adjust the bar so that there is an even gap of 18-22mm at the bumper cut.

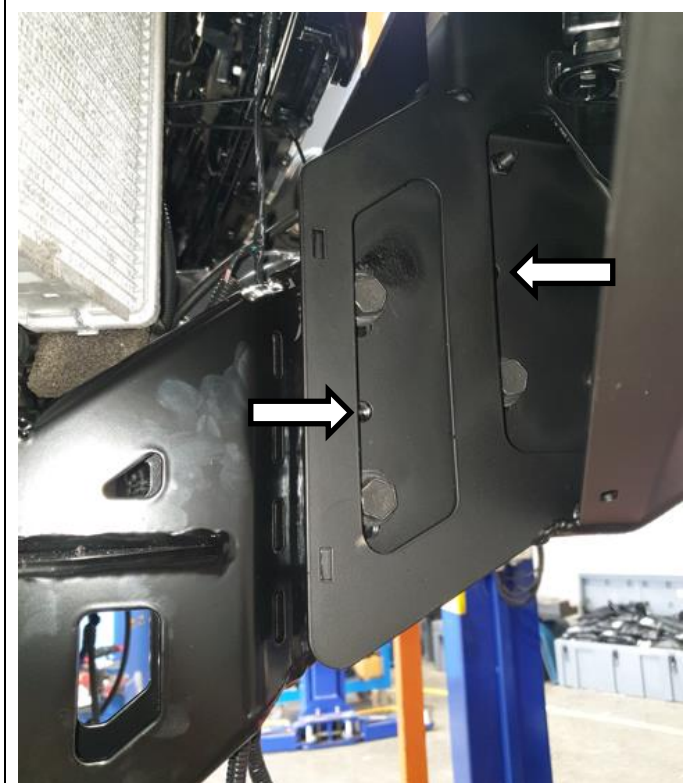
Note: The wing tip should also sit at a tangent to the wheel arch trim (shown with dashed line).



100. Adjust so that there is an 8-15mm gap between the bumper and the bull bar wing.

Tighten the 6x M12 bolts to specification.

 M12 (PC11.9) - 102 Nm



101. Drill the two $\varnothing 10$ mm pinning holes on each upright as shown.

Add anti-corrosion touch up paint to areas drilled.

Install two M10x1.25x40 (PC11.9) bolts, washers and flange nuts to the pinning holes on each side. Torque to specification.



 M10 (PC11.9) - 54 Nm

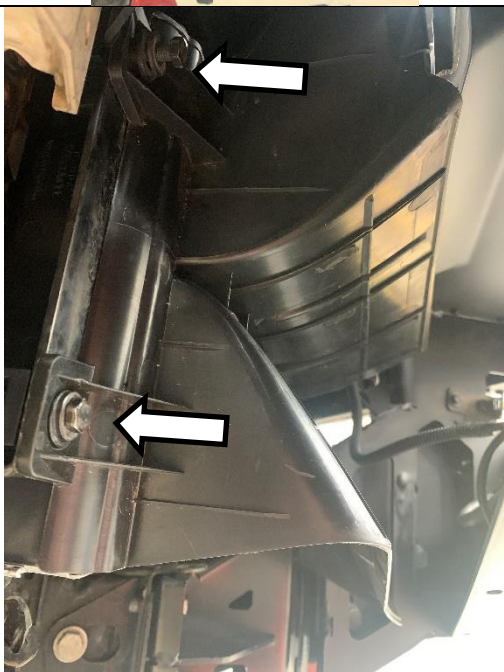


Warning: Drilling operations can result in flying metal debris, safety glasses should be worn.



102. Feed the duct boxes up between the bull bar and the radiators. (RH duct box shown)

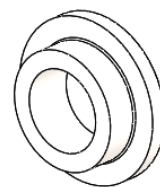
Warning: Radiator fins are easily damaged so care must be taken with this step.



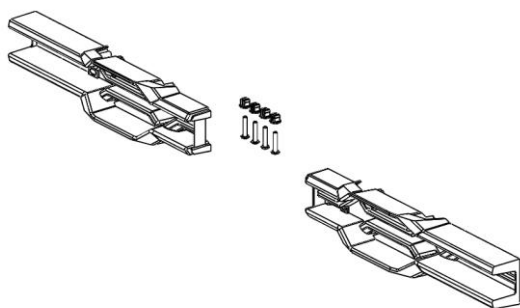
103. Align the mount holes to the holes on the radiator and fasten using four spacers and the original four M6 bolts (per side) removed in step 13.



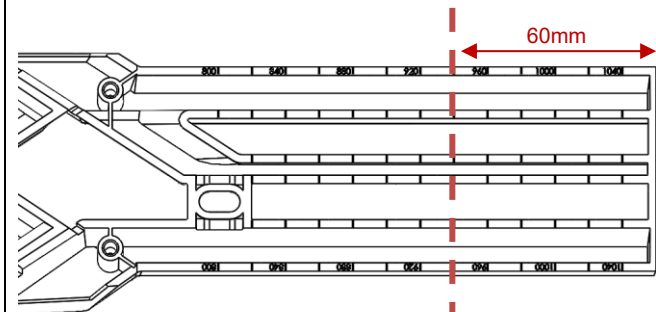
M6 - 9 Nm



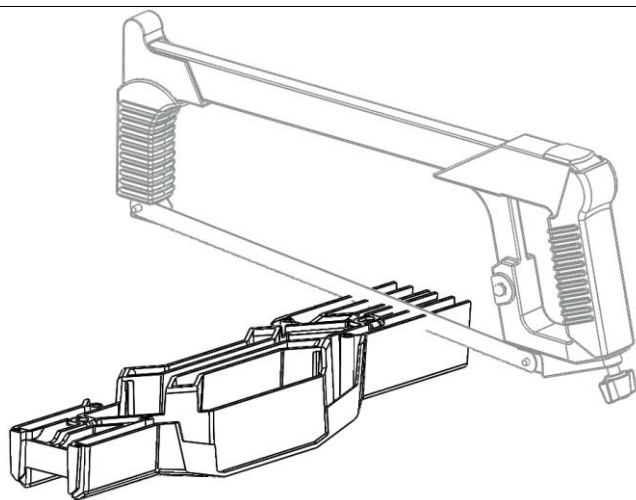
6253415



104. Identify the outer grille section kit, 3163295.



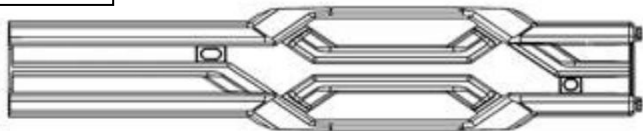
105. Mark both grille panels to be cut at the 940mm markings on the back face. (60mm from the outer edge).



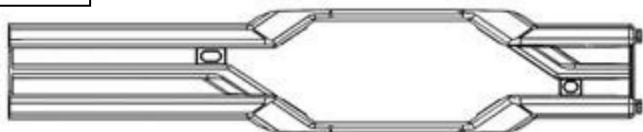
106. Use a hacksaw or similar cutting tool to carefully cut the grille panel at the positions marked in the step above.

Discard the off cuts and clean up the cut edges using a file or sandpaper.

Before



After

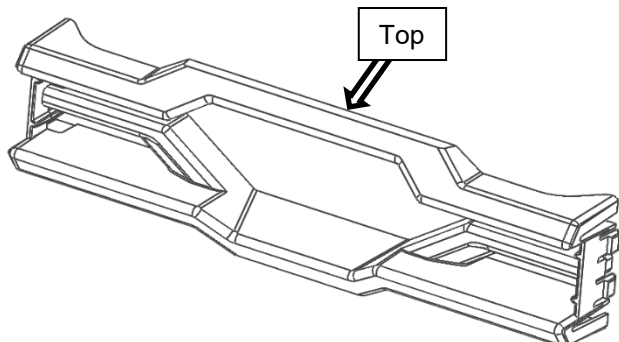


107. If fitting a winch, remove grille sections shown for access to clutch lever.

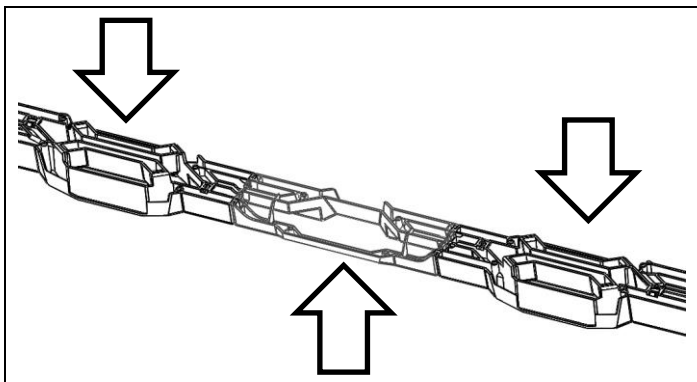
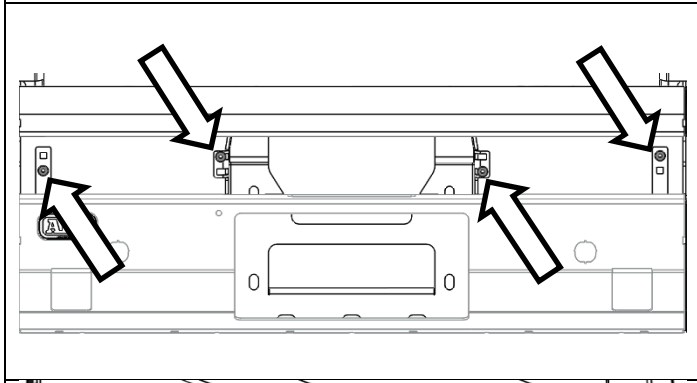
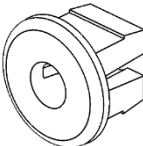
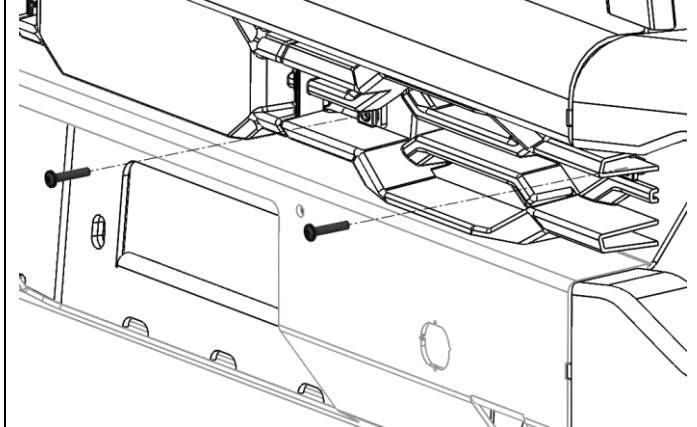
Cut from rear with oscillating multi-tool.

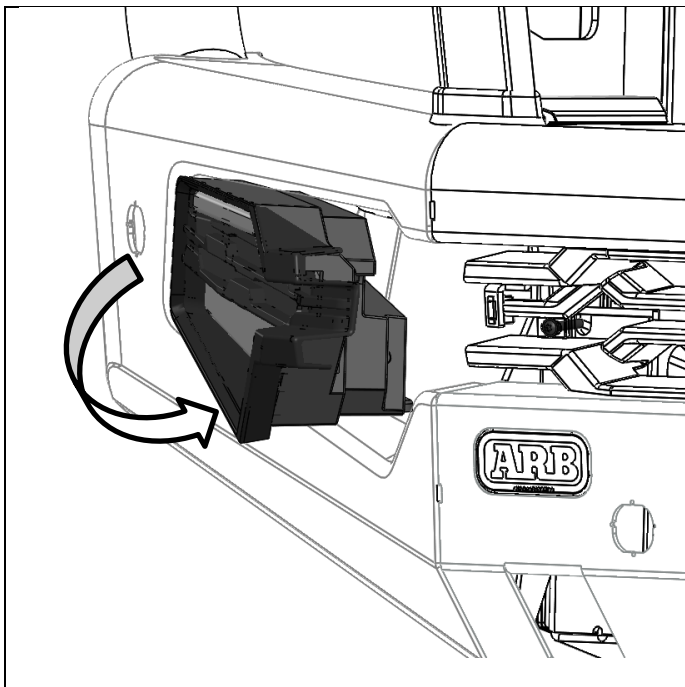


Warning: Cutting operations can result in flying metal debris, safety glasses should be worn.

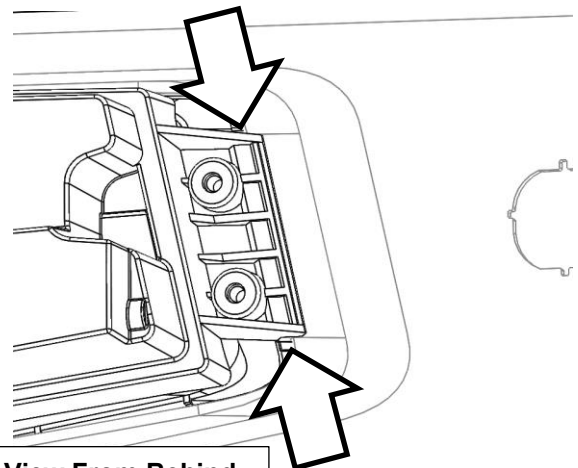


108. Identify the inner grille section kit, 3163289. Note the orientation of the grille centre.

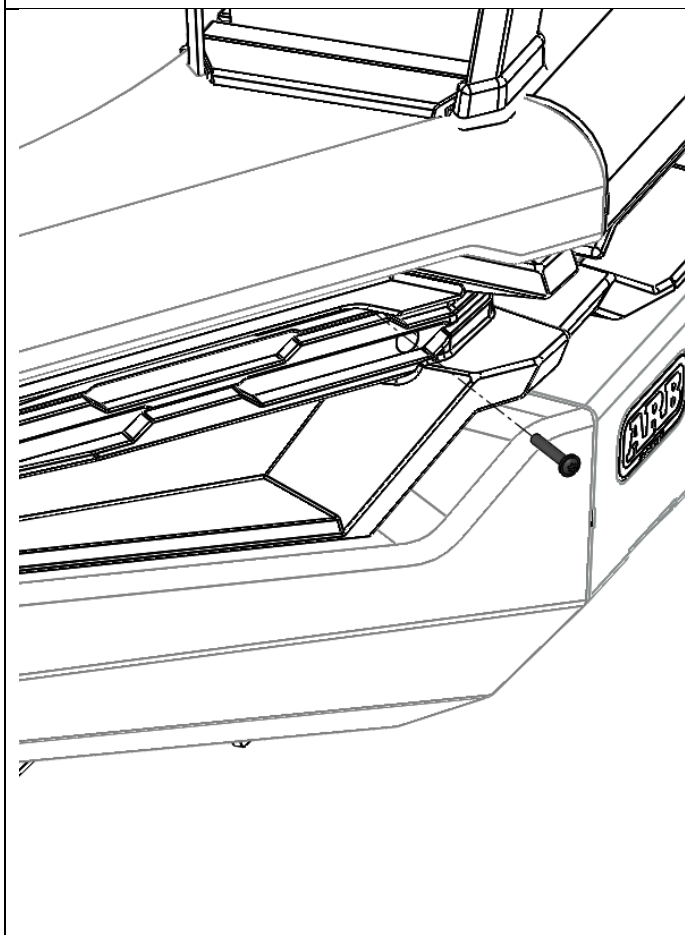
	<p>109. Assemble centre section into both outer sections, make sure clips are fully engaged.</p>
	<p>110. Press four round plastic grommets from grille kit into the square cut-outs seen from the front of the bull bar.</p> 
	<p>111. Attach grille assembly to bull bar using four torx head screws supplied in grille kit.</p>
	<p>112. Camera (if fitted) should sit in the grille as shown.</p>



113. Index the outside groove of the lamp cluster over the edge of the aperture in the bull bar wing. Then rotate the lamp cluster into place.

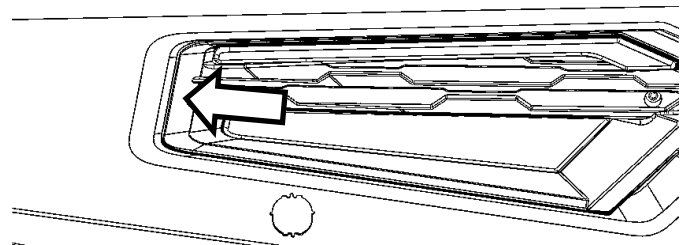


View From Behind



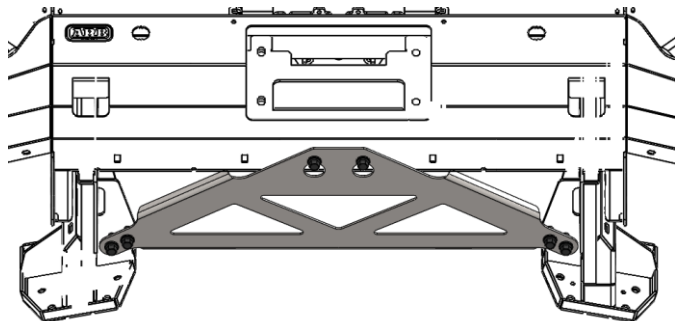
114. Secure lamp cluster with M6 torx head screw. If there is no nylon patch on the screw, use Loctite 243.

Note: push lamp cluster hard against the aperture in the bull bar wing when fastening.

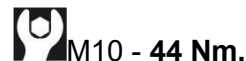


Connect lighting harness into the back of each fog cluster.

 M6 - 9 Nm.



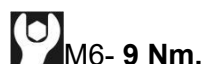
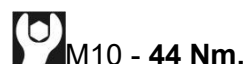
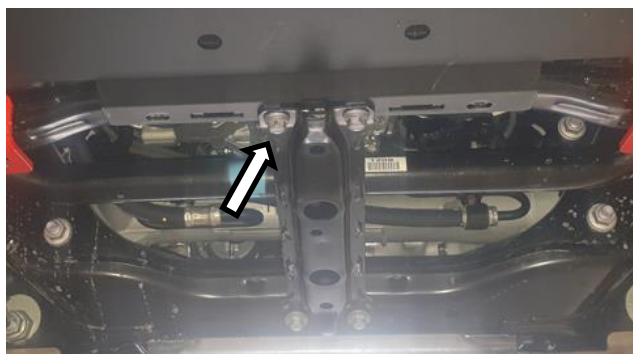
115. Fit the chassis cross brace using six M10x1.5x30 flange head bolts, washers and flange nuts. Torque to specification.



For GR Sport stone shield fitment skip to step 117.

116. Fit the centre stone shield using four M6x25 bolts and washers into the cage nuts on the bull bar lower pan,

Fit the chassis brace removed in step 16 on top of the stone shield using the four M10 original bolts also removed in step 16.



For GR Sport models:

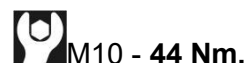
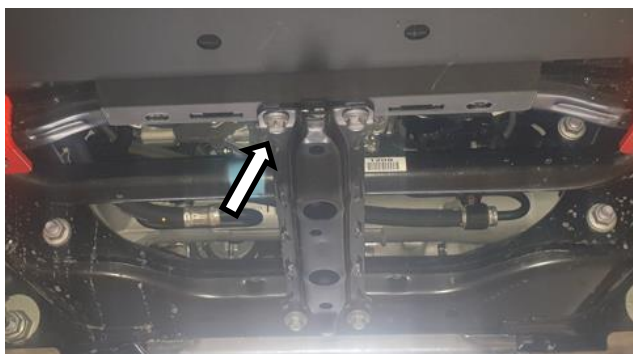
117. The chassis brace is bolted to the E-KDSS sway bar. Use a car/workshop jack to support the sway bar in one of the areas marked by the arrows.

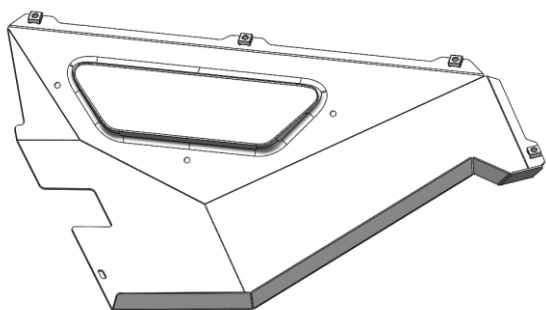
Remove the 2x front bolts and loosen the 2x middle & 2x rear bolts.

Fit the stone shield as per step 116.

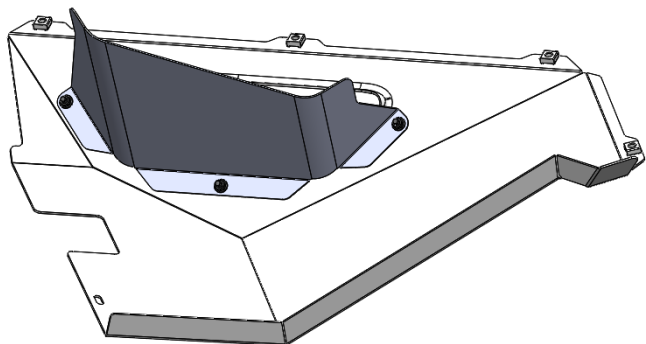
Refit the chassis brace bolts and tighten all 6 bolts to specification.

Warning: The sway bar will slowly creep down if it is not sufficiently supported.



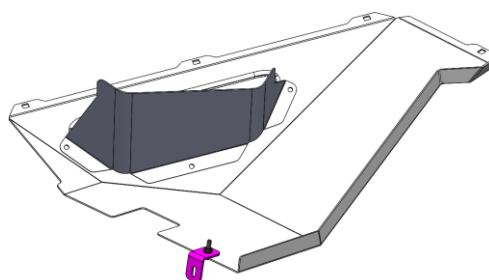
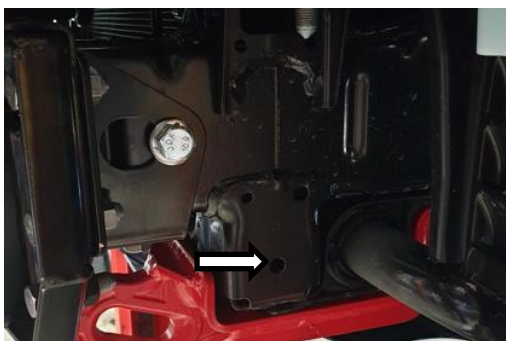


118. Install 4x cage nuts to each wing under panel as shown.

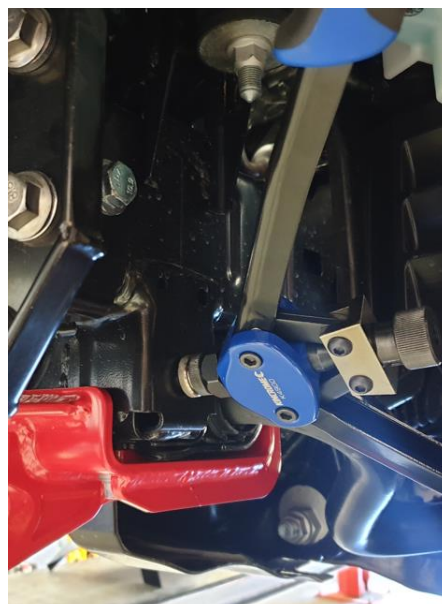


119. Fit the air deflector to each wing under panel using three M6x16 button head screws, washers and flange nuts as shown. Note the orientation in the image.

Fit the Under-panel mount bracket using M6x25 bolt, washer and flange nut. Leave finger tight.

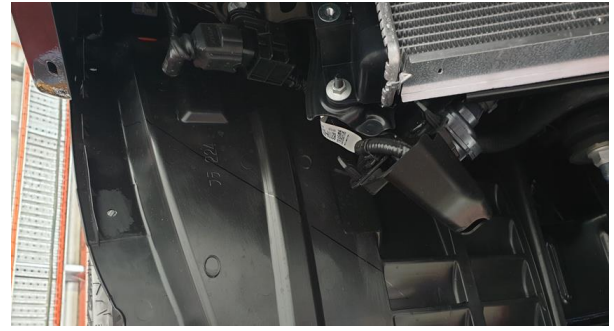


120. Fit an M6 rivnut to the chassis on each side as shown using a rivnut gun.





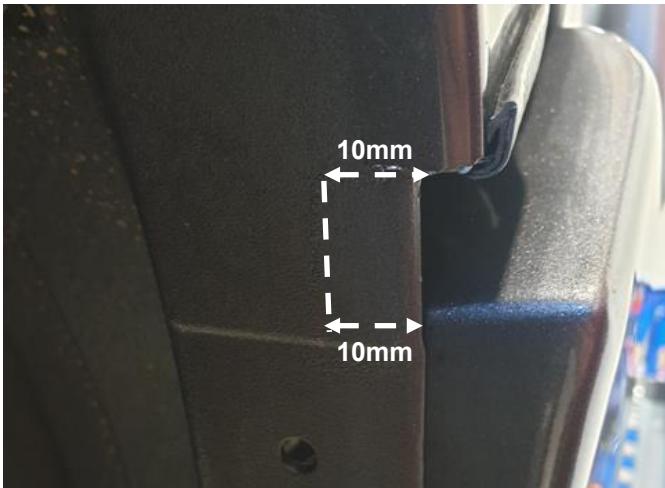
121. Hold the wing under-panels in place and mark the wheel liners.



122. Carefully trim the wheel liners using an oscillating multi-tool.



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



123. Mark the wheel arch liner as shown and trim using an oscillating multi-tool.

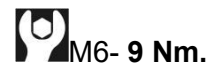
Push wheel arch liner in behind wing.



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



124. Install the wing under panels using five M6x25 bolts and washers. Tighten to specifications, including the mount bracket on the bottom of the panel.



M6- 9 Nm.



125. Fit the OE stone shield using the 4x bolts removed in step 5.



126. Reconnect the grille harness and headlight washer line (if equipped). Reinstall the radiator cover panel.

Fit number plate using M6 button head screws, steel washers, nylon packers & flange nuts.



FITTED PRODUCT

NOTICE: ONCE SUMMIT BAR IS FITTED:

- ◆ Ensure all bolts are tensioned correctly.
- ◆ All wiring & piping is secured clear of sharp edges or moving parts.
- ◆ If fitted, check operation of winch.
- ◆ Check all wiring and connections to lamps & sensors.
- ◆ If fitted, test operation of parking sensors.

Fitted Product: LC300 Landcruiser Summit MKII bull bar

