

Part Number:	3425010
Product Description:	SUMMIT COMBAR LC300   8/21ON
Suited to vehicle/s:	TOYOTA LC300 LANDCRUISER 8/21ON
Optional Fitting	3501130 - WINCH INSTALL KIT SUMMIT
Kits:	3501135 – WINCH INSTALL KIT SUMMIT

- 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



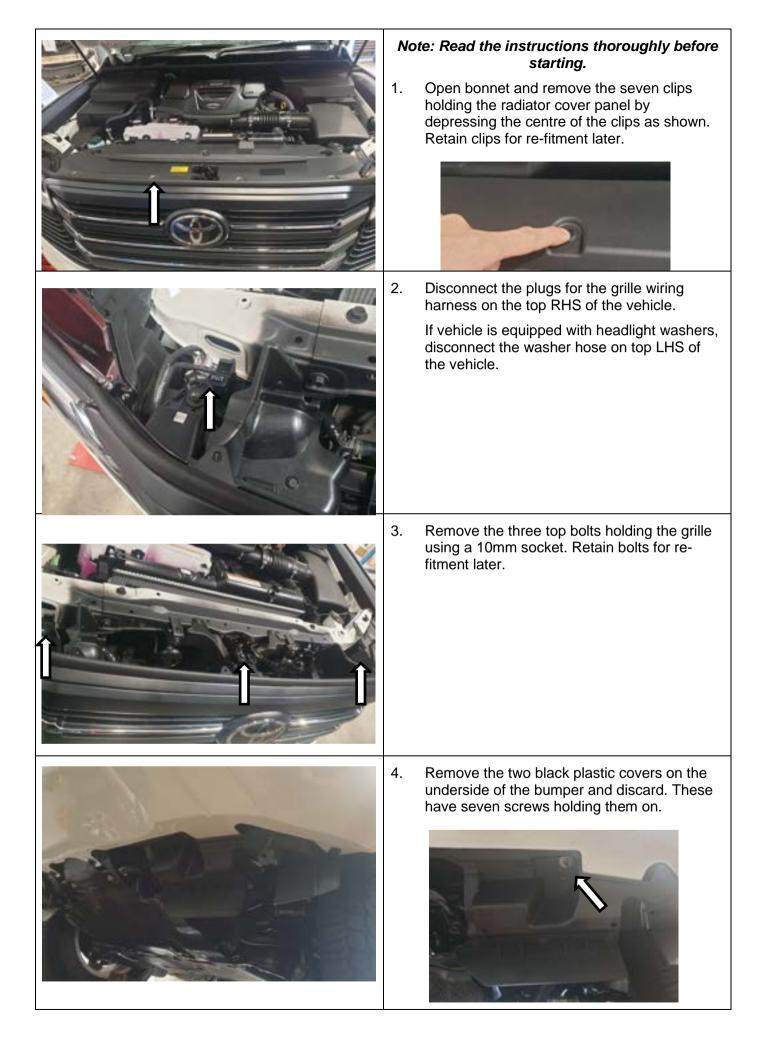
Hearing protection



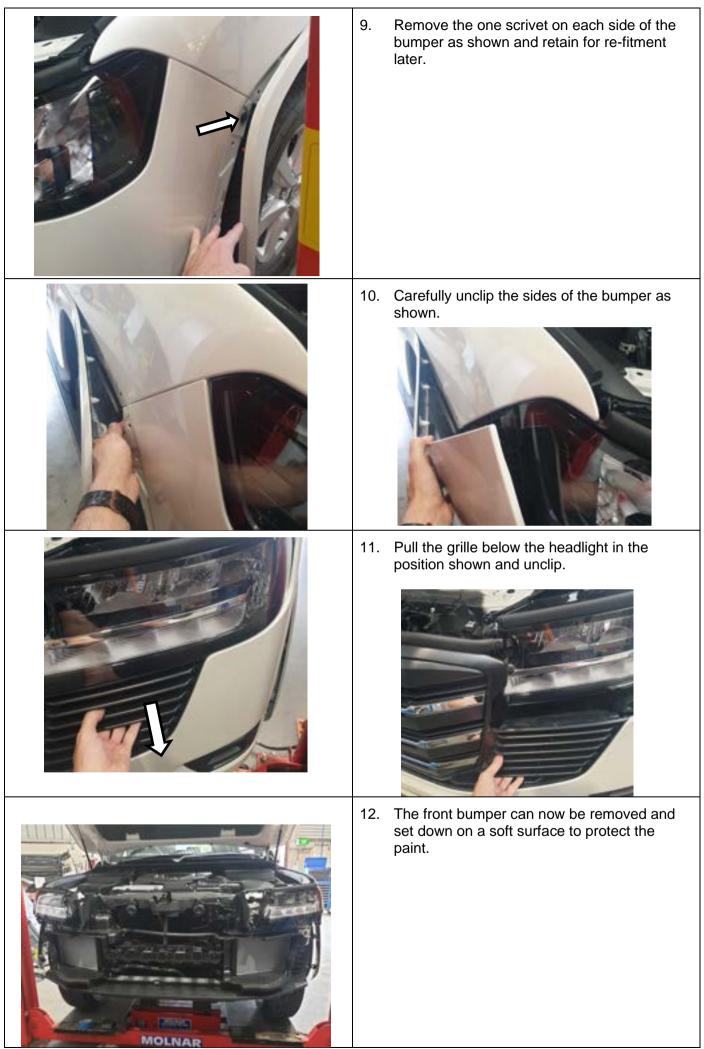
NOTE: 'WARNING' notes in the fitting procedure relate to OHS situations, where to avoid a potentially hazardous situation it is suggested that protective safety gear be worn or a safe work procedure be employed. If these notes and warnings are not heeded, injury may result.

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 3753114 L&R 4655145 L&R 4617103 4584363 6152092 6151528 6151700 6151480	1 PR 1 PR 2 20 2 2 14 8	OUTER CHASSIS BRKT   SUIT LC300 INNER CHASSIS BRKT   SUIT LC300 WELDED ASSY CHASSIS MOUNT   SUIT LC300 CHASSIS CRUSH TUBE WASHER FLAT M12x26x4   HV300 TZP480 BOLT HXHD M12x1.75x100   PC10.9 ZAS1000 NUT HEX NYLOC M12x1.75   PC10.9 ZP BOLT HXHD FL M12x1.25x35   PC8.8 TZP480 NUT FLANGE M12x1.25   PC8.8 TZP480 SERRATED
FIT BAR TO MOUNTS	3195470 4584363 6151969 6151815 6152023 6151817 6151173 6151550 4584380 4584378 6151965 6151752 4681753	6 12 4 6 6 4 4 12 8 6 6 1	PACKER CHASSIS MOUNT   SUIT LC300 WASHER FLAT M12x26x4   HV300 TZP480 NUT FLANGE M10x1.25   PC10.9 ZAB1000 BOLT HXHD FL M10x1.25x40   PC11.9 ZAB1000 NUT FLANGE M12x1.25   PC10.9 ZAB1000 BOLT HXHD FL M12x1.25x40   PC11.9 ZAB1000 NUT FLANGE M6   ZNB480 SERRATED BOLT HXHD M6x1.0x25   PC8.8 BTZP480 WASHER FLAT M10x22.9x2   HV300 BTZP480 WASHER FLAT M6x16x1.2   HV300 BTZP480 BOLT HXHD FL M10x1.5x30   PC8.8 ZNB480 NUT FLANGE M10x1.5   PC8.8 BTZP480 BRACE CROSS SUIT LC300
FIT DUCT BOXES	3163351 L&R 3753572 L&R 375573 6821189 6151384 6253415	1 PR 1 PR 2 2 2 8	DUCT ASSY LH&RH SUIT LC300 RAD SUPPORT BRKT LH&RH SUIT LC300 RAD SUPPORT BRKT SUIT LC300 GROMMET RND FC 1500 080 090 SCREW ST PHD 5.2X16 SPACER 5.6 X DIA 9 ZNB480
FIT LIGHTS AND MOULDINGS	3163294 3163295 3163289 3500991 3753105 3753106 6151300 6151180 4584378 6151173 6151443 4584329 3753108 3195904 3525010 6151560 6152094	1 1 2 2 2 4 4 12 4 8 1 1 1 2 2	COVER STRAP KIT SUMMIT OUTER GRILLE KIT SUMMIT GRILLE CENTRE, SUIT SUMMIT ARB LAMP CLUSTER KIT SUMMIT BRKT GRILL MOUNT BRKT LIGHT MOUNT NUT CAGED M6 2.6-3.5   956-C BOLT HXHD M6x1.0x20   PC8.8 TZP480 WASHER FLAT M6x16x1.2   HV300 BTZP480 NUT FLANGE M6   ZNB480 SERRATED SCREW BHD M6x20   BZP WASHER FLAT M6x12.2x1.2   BTZP480 BRKT CAMERA MOUNT SUIT LC300 PLATE BACKING TOYOTA CAMERA SENSOR SURROUND KIT BOLT HXHD M6x1.0x16   PC8.8 TZP480 SCREW PHD M6X1.0X30   PC8.8 TX ZNB480
FIT STONE GUARDS	6523539 6523540 L&R 3753107 3753288 L&R 6151300 6151550 4584378 4584329 6151459 6151278 6151173	1 1 PR 2 1 PR 12 16 12 6 6 2 6	PANEL STONE GUARD SUIT LC300 WING UNDER PANEL SUIT LC300 BRKT UNDER PANEL AIR DEFLECTOR LH&RH SUIT LC300 NUT CAGED M6 2.6-3.5   956-C BOLT HXHD M6x1.0x25   PC8.8 BTZP480 WASHER FLAT M6x16x1.2   HV300 BTZP480 WASHER FLAT M6x12.2x1.2   BTZP480 SCREW BHD M6x16   BTZP480 NUTSERT, M6, CRIMPED NUT FLANGE M6   ZNB480 SERRATED
MISCELLANEOUS	180302 6191033 6523369 6151550 6151173 4584329 6821437 37801107 5848302	8 2 1 6 4 1 1 2	CABLE TIE 4.8 X 180 MM BLACK EXTRUSION PINCH WELD 412mm PRESS FORM WINCH COVER PANEL BOLT HXHD M6x1.0x25   PC8.8 BTZP480 NUT FLANGE M6   ZNB480 SERRATED WASHER FLAT M6x12.2x1.2   BTZP480 WIRING HARNESS CUTTING TEMPLATE PACKER RB NYLON

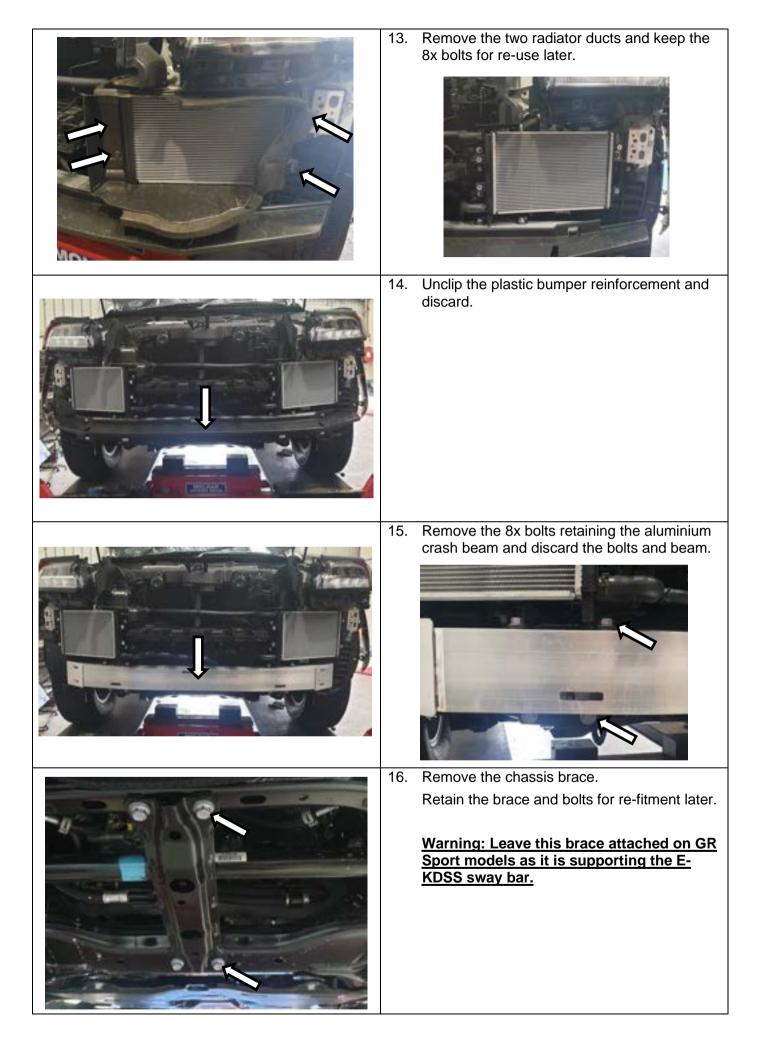


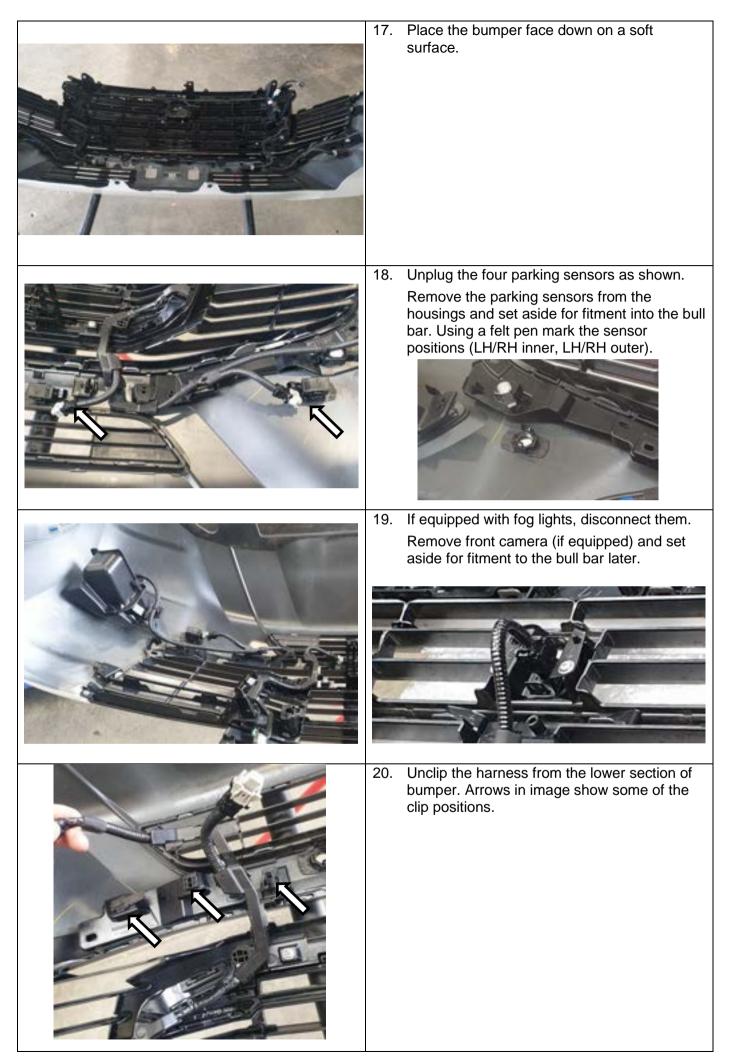
5.	Remove the four bolts holding the underside of the bumper and discard. Remove the OE stone shield and retain the bolts for later.
6.	Remove the scrivets and allen head screws holding the front half of the wheel arch trims in place.
7.	Carefully peel back the wheel arch liner on the bottom corner as shown. Unclip the two clips on the bottom of the wheel arch trims.
8.	Carefully unclip the front half of the wheel arch trims.

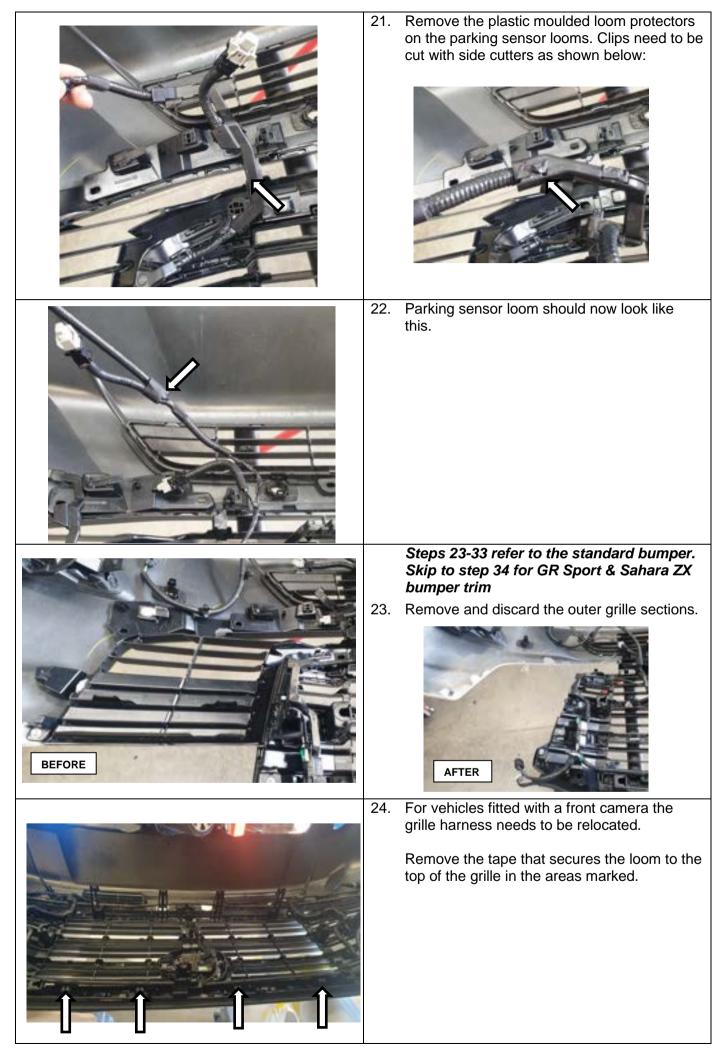


 Last Rev Date:
 08/11/2024
 Page 6 of 36
 Fitting instructions# 37801086

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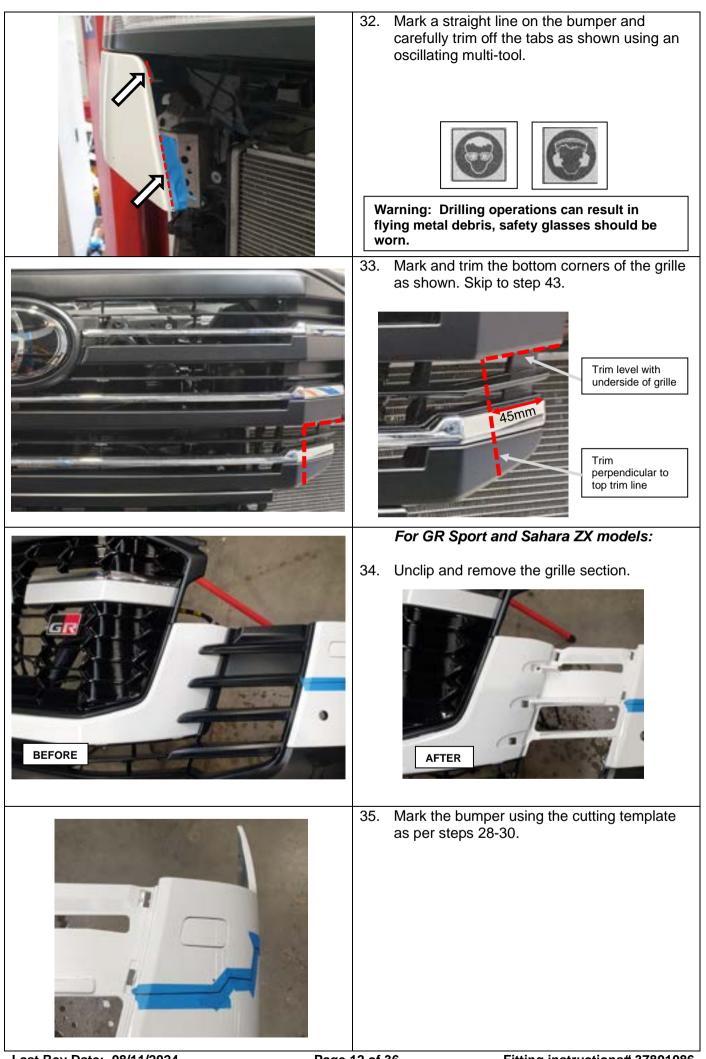






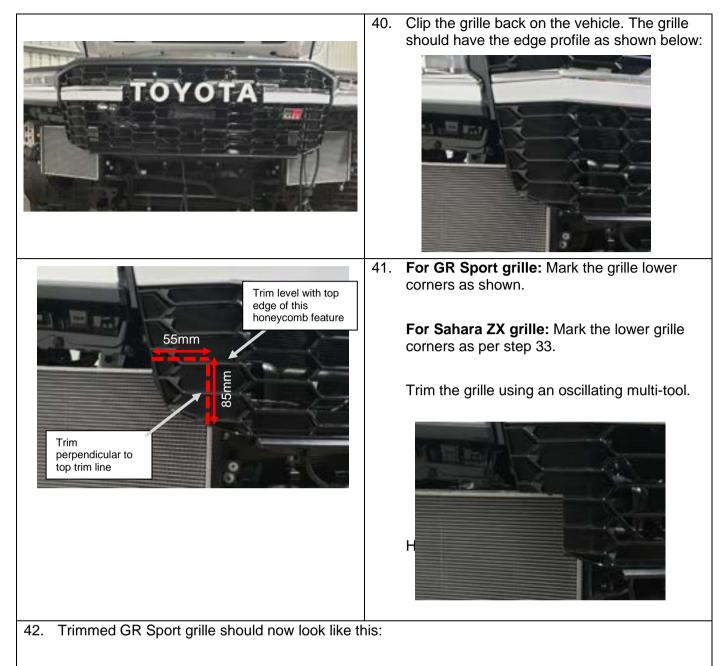
	Relocate the loom as shown.
26.	Feed the camera loom out the hole that the camera was mounted in.
27.	Refit the bumper to the vehicle for bumper trimming. Fasten the grille with the original M6 bolts removed in step 3.
28.	Fit the cutting template as shown.

	29. Attach masking tape behind the trim edge on the template and mark the trim line with a permanent marker.
	<ul> <li>30. Remove template and repeat on other side of vehicle.</li> <li>Note: template is used for several model variants. Continue the trim line beyond the template in a straight line shown at the arrow.</li> </ul>
	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.
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.



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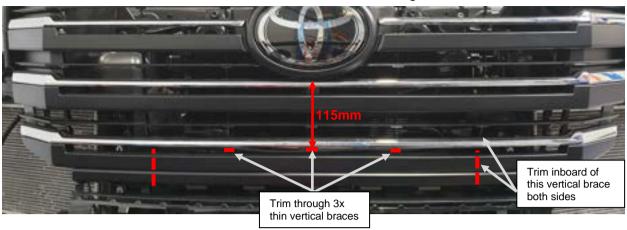
	36. Mark the edge of the bumper as shown.
	<ul> <li>36. Mark the edge of the bumper as shown.</li> <li>Trim the bumper using an oscillating multitool.</li> <li>Use template to drill Ø5mm hole.</li> <li>Reverse template to repeat for other side.</li> </ul>
	Warning: Drilling operations can result in flying metal <u>debris</u> , 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.
TOYOTA	<ul> <li>38. With the bumper trimmed, unclip the lower section of bumper from the grille.</li> <li>Discard the lower bumper section.</li> </ul>
	<ul> <li>39. Trim along the sides and bottom of the grille to remove the excess plastic using an oscillating multi-tool.</li> <li>Image: Second Secon</li></ul>



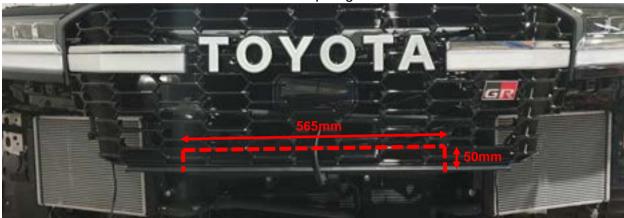


43. If fitting a winch, trim the lower centre part of the grille as shown. If no winch is being fitted skip to step 44.

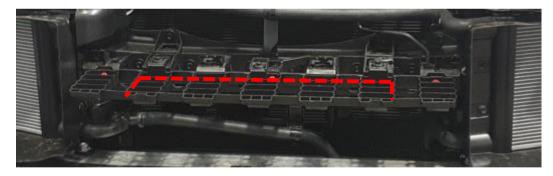
GX, GXL, VX & SAHARA VX grille:



GR Sport grille:



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



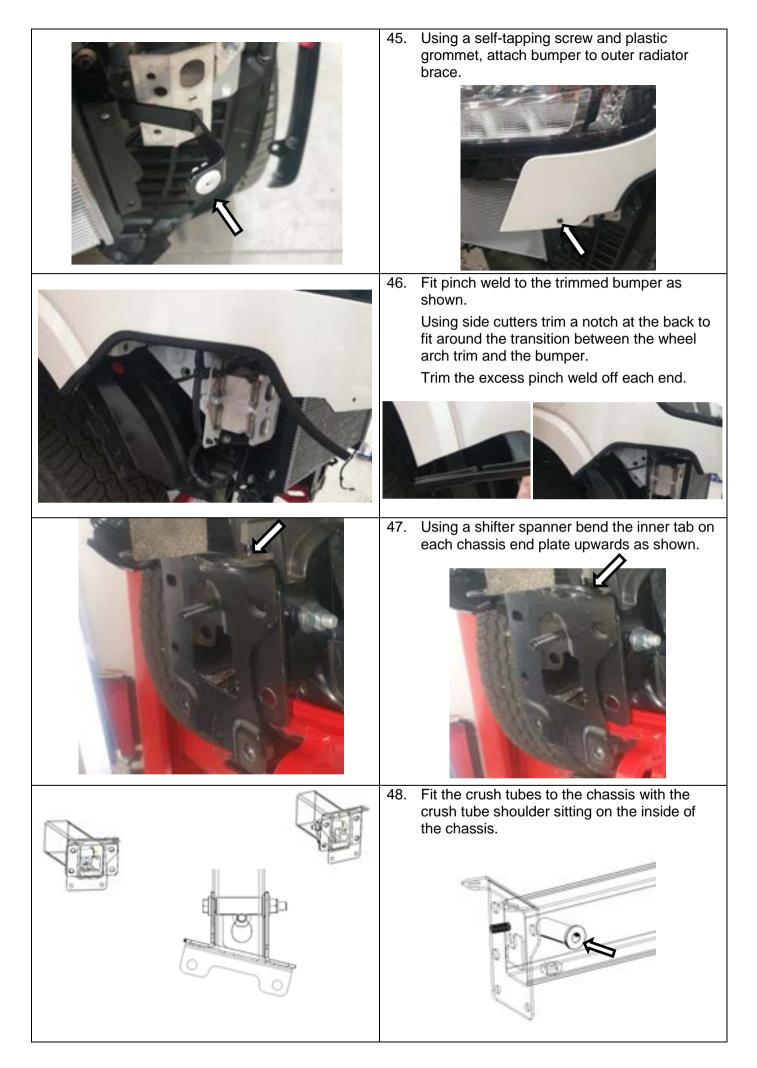


44. Remove the nuts securing the radiators and fit the inner and outer radiator support brackets as shown using the original nuts.

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

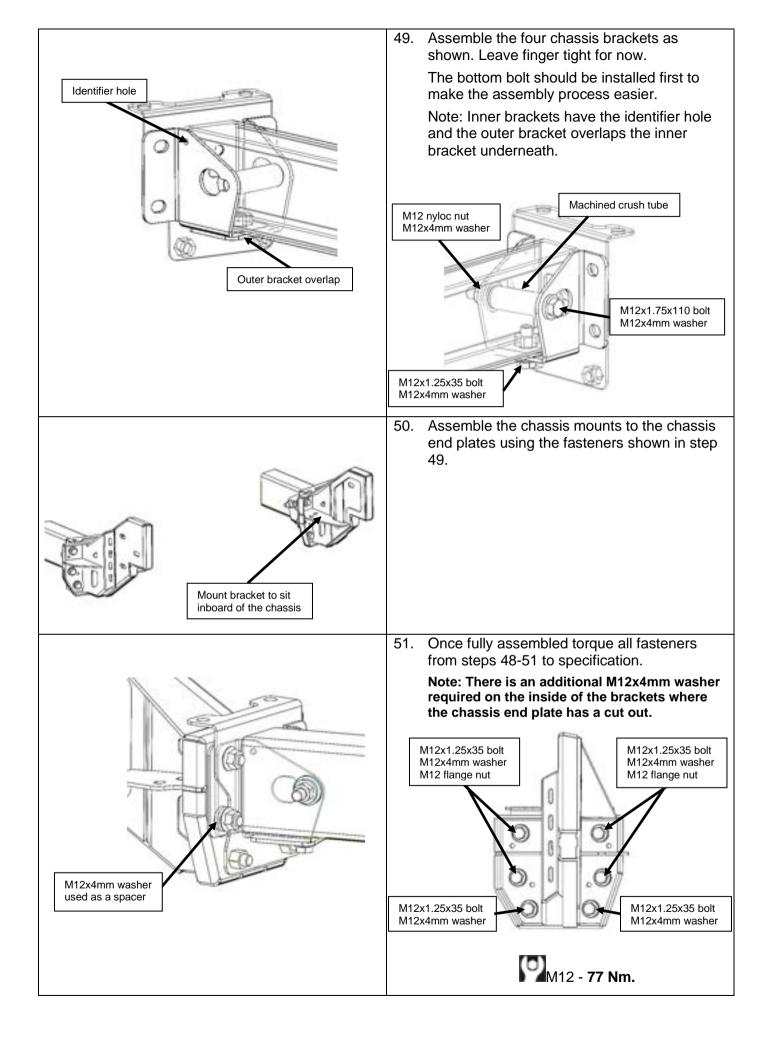


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Page 16 of 36

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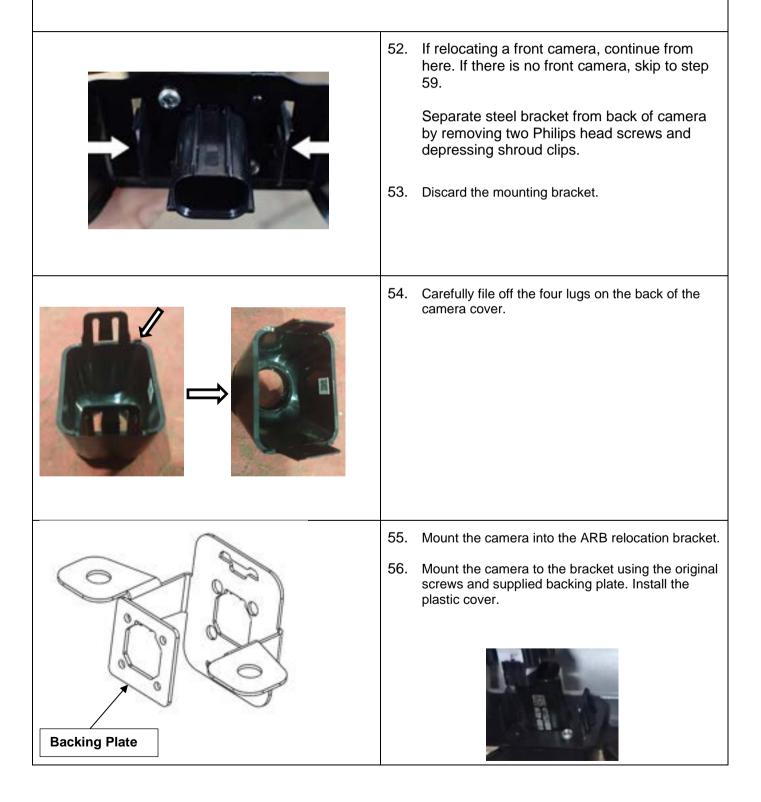


#### GR SPORT WARNING:

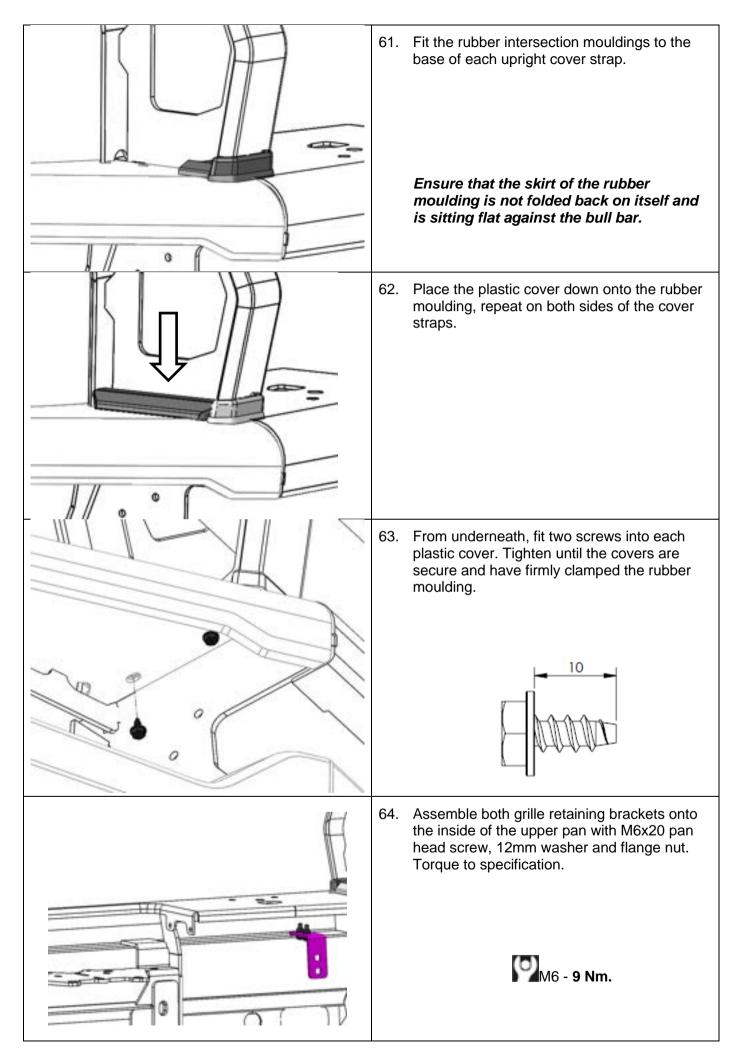
IF FITTING A WINCH TO A GR SPORT MODEL THE WINCH CONTROL BOX MUST NOT SIT PROUD OF THE UPPER PAN ON THE BULL BAR. IT MUST SIT FLUSH OR BELOW TO AVOID RADAR MALFUNCTION.

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

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



	57.	Install the camera to the winch cradle as shown using two M6x16 bolts, washers and flange nuts. Connect the camera plug to the camera. <b>Note: camera not shown in image</b> Route the grille wiring loom through the bull bar and connect to the 4x parking sensors
	59.	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.
And	60.	Identify the cover strap plastics kit, 3163294.

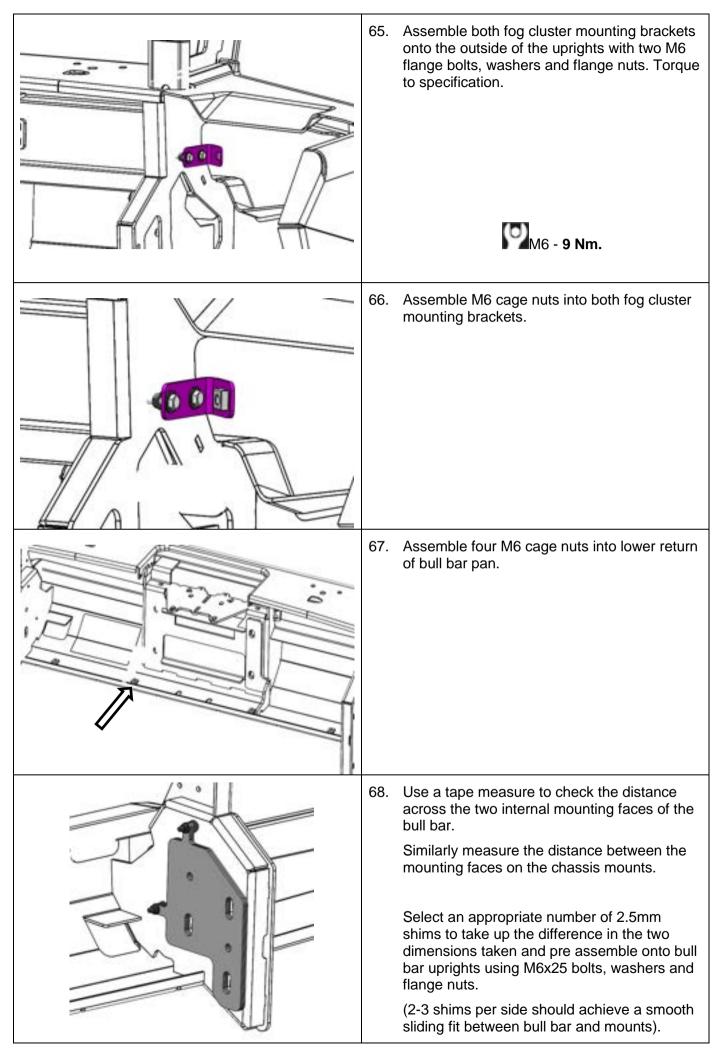


Last Rev Date: 08/11/2024

Page 20 of 36

Fitting instructions# 37801086

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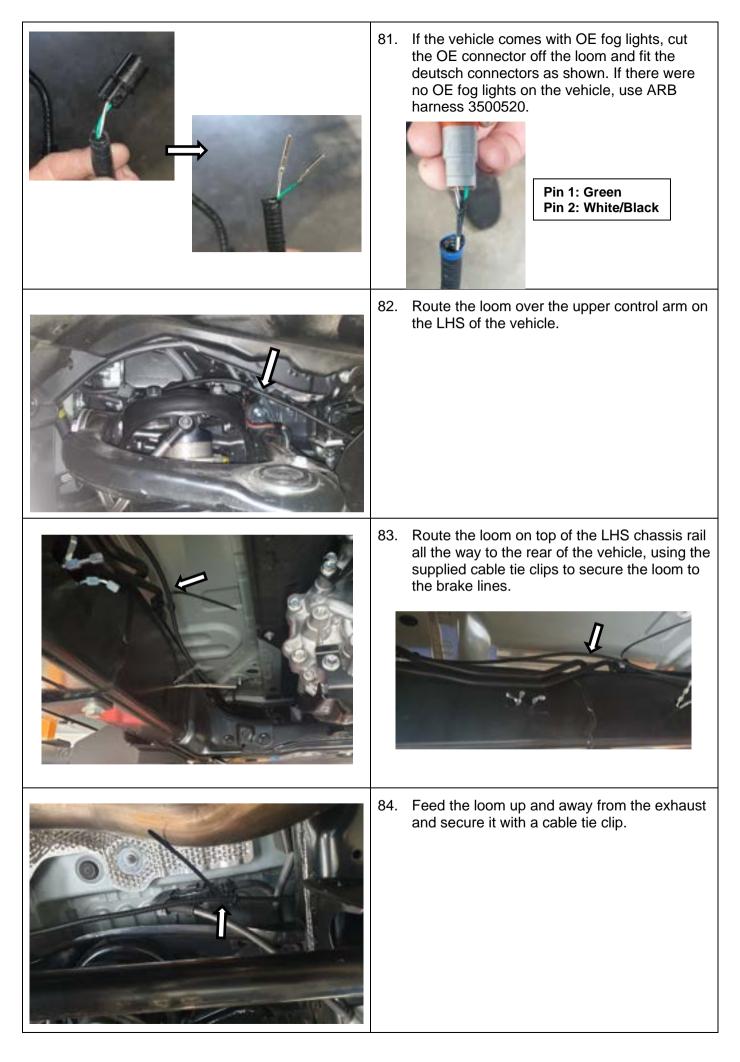
Sensor Housing Front Sensor Housing Rear Parking Sensor Generic image only	<ul> <li>69. Fit the four Sensor Housing Fronts to the bull bar. Placing the housing through the bar from the front of the vehicle.</li> <li>From the rear of the bar clip the Sensor Housing Rear to the Front Housing. Check that both clips are engaged properly. If clips don't engage apply pressure on the outer ring of the Rear Housing.</li> </ul>
	<ul> <li>70. Clip the sensors into the housings removed in step 18. Check that both clips are engaged properly.</li> <li>Note: Tails for sensors should face the bull bar uprights.</li> </ul>
	Installation of wiring harness 71. Steps 72-84 refer to fitment of the long loom pictured here.
	72. Remove the RH fuse box cover in the engine bay         Image: state of the

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Bomm Contraction of the second s	73. Drill a Ø10mm hole on the top flange, 30mm from the corner of the fuse box as shown.
	74. Feed the end of the loom through the hole and firmly seat grommet in hole.
	<ul><li>75. Insert fuse adapter to the 5<sup>th</sup> fuse slot from the right in the top row as shown.</li><li>Plug the power cable into the bullet connector.</li></ul>
30mm	76. Drill a Ø10mm 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

77. Trim the fuse box cover as shown using side cutters.
78. Refit the fuse box cover as shown.
79. Connect the earth eyelet to the body of the vehicle beside the fuse box using an M6x25mm bolt and washer.
80. 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.

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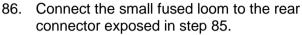




85. Peel the corner of the rear exhaust heat shield down to expose the connectors.

Remove the cover from the large connector as shown.





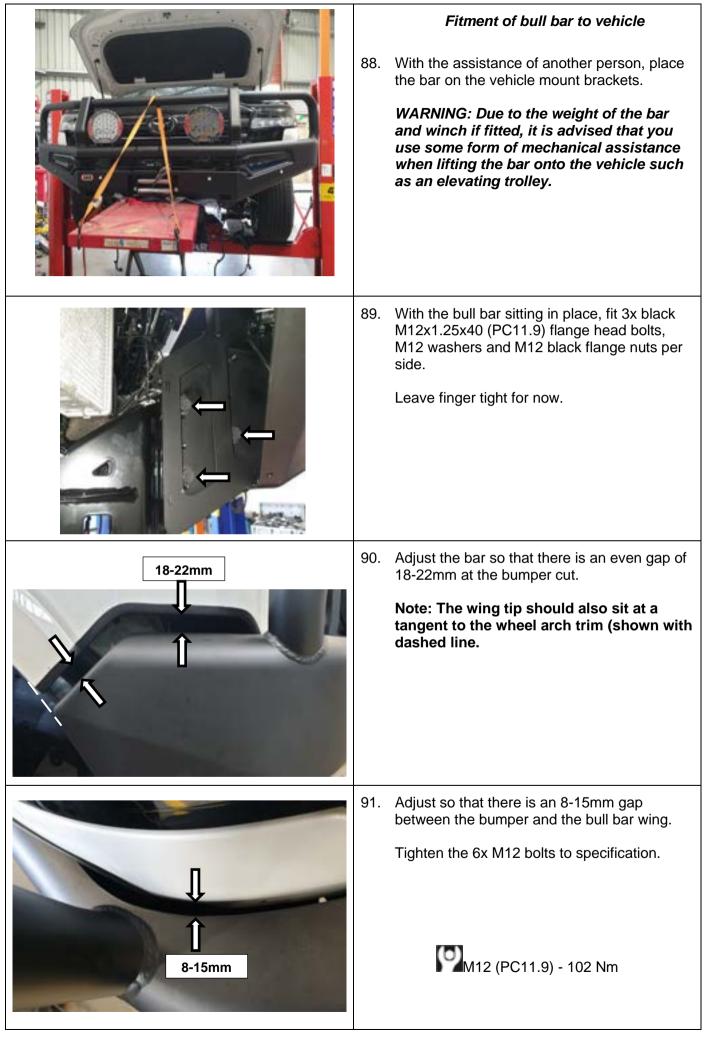


87. Connect the other end of the fused loom to the main loom as shown. Secure away from the exhaust with cable tie clips.





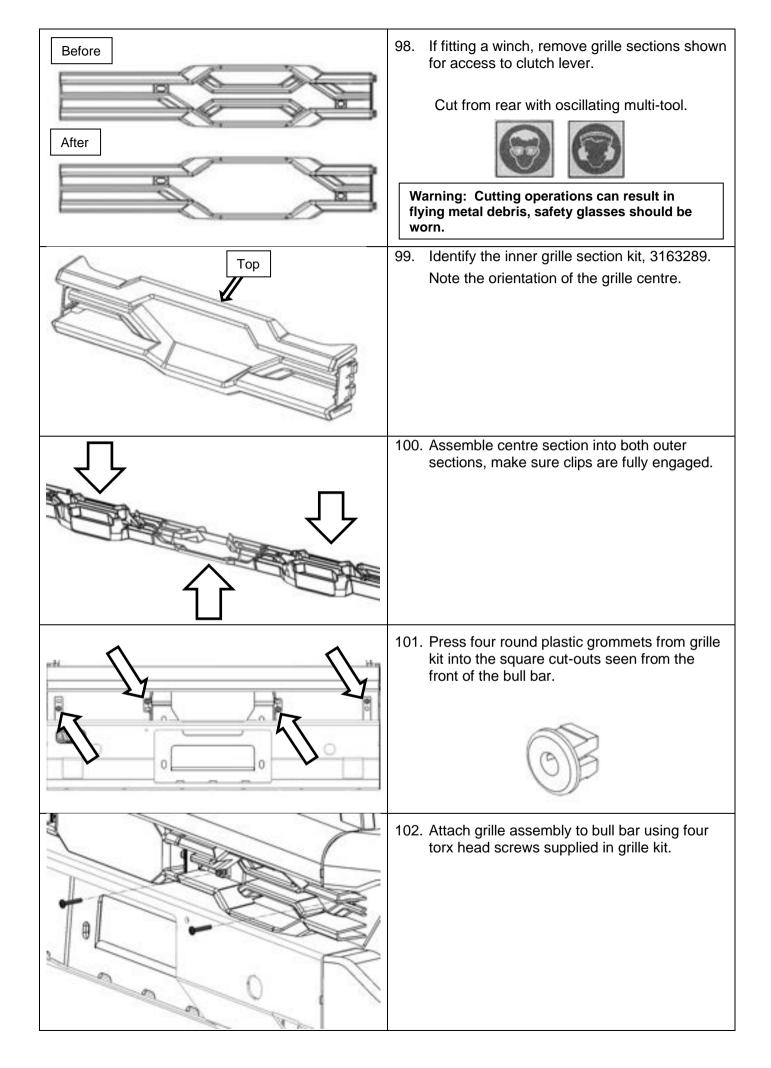


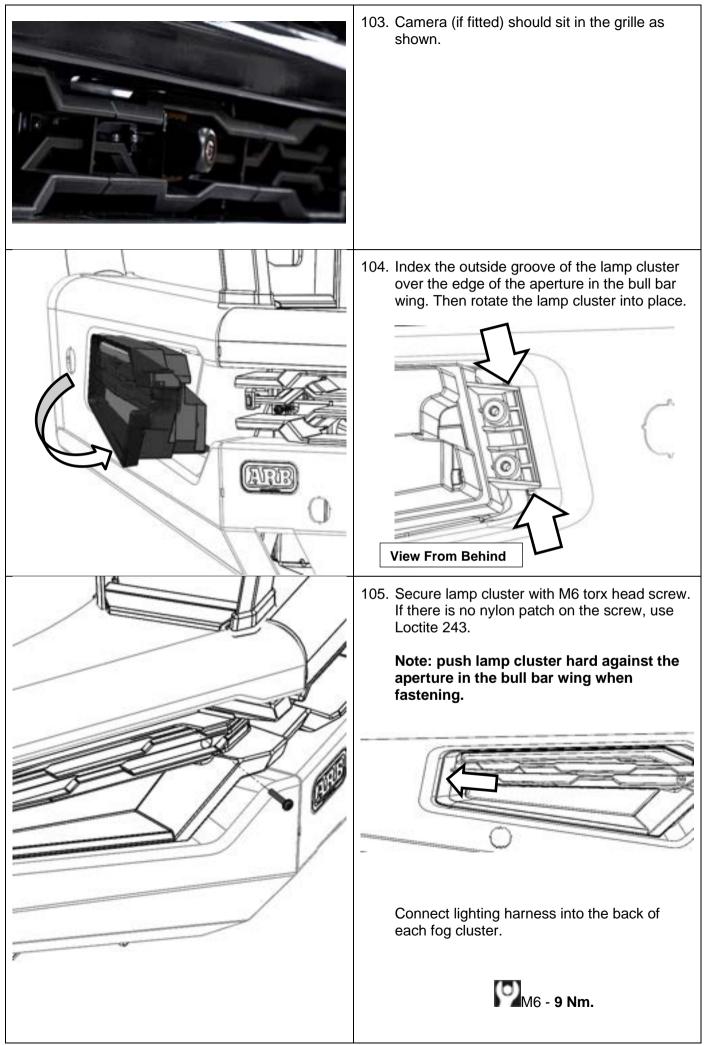


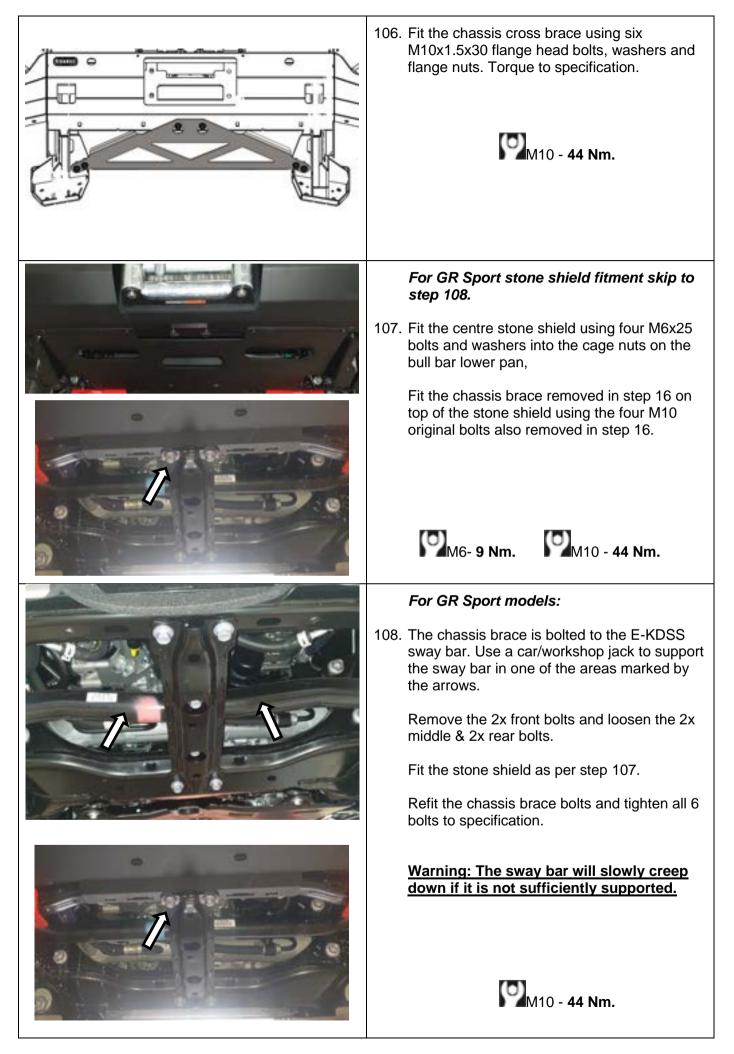
Last Rev Date: 08/11/2024 Page 27 of 36 Fitting instructions# 37801086 Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd



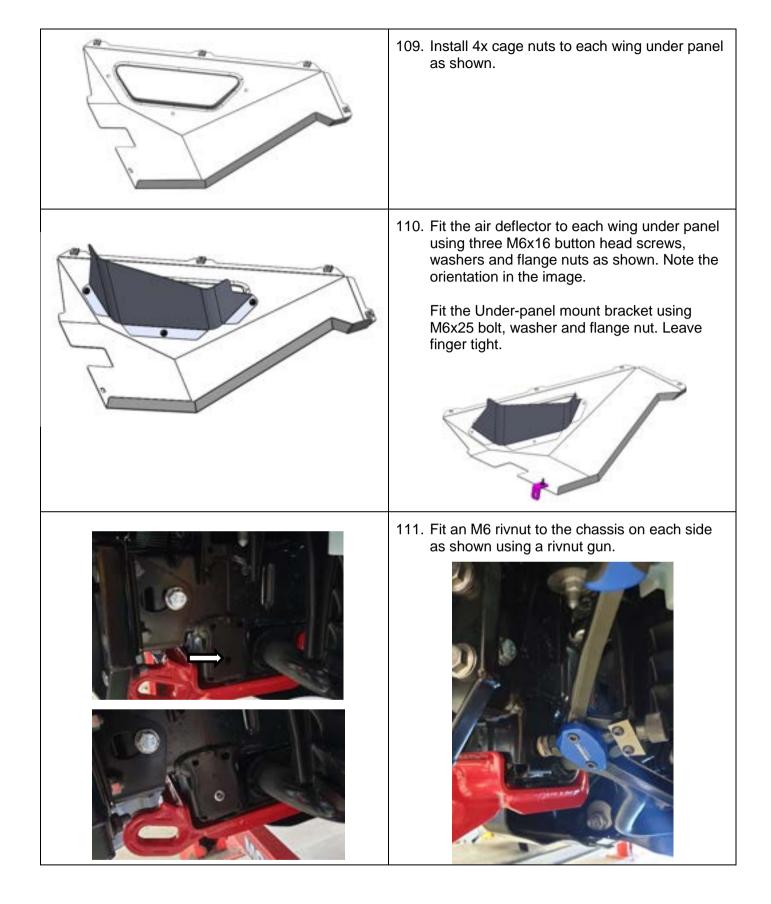
<image/>	94. Align the mount holes to the holes on the radiator and fasten using four spacers and the original four M6 bolts (per side) removed in step 13. FM6 - 9 Nm 6253415
	95. Identify the outer grille section kit, 3163295.
	96. Mark both grille panels to be cut at the 940mm markings on the back face. (60mm from the outer edge).
	<ul> <li>97. Use a hacksaw or similar cutting tool to carefully cut the grille panel at the positions marked in the step above.</li> <li>Discard the off cuts and clean up the cut edges using a file or sandpaper.</li> </ul>



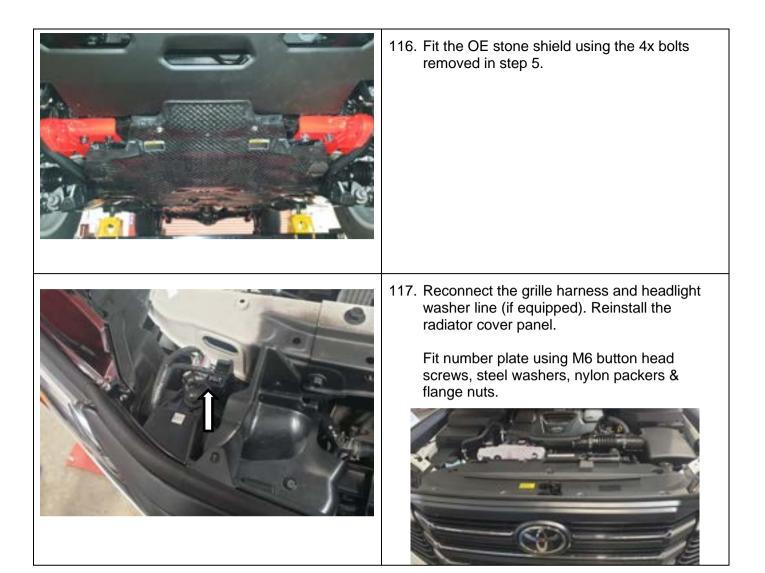




Last Rev Date: 08/11/2024 Page 32 of 36 Fitting instructions# 37801086 Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd



	112. Hold the wing under-panels in place and mark the wheel liners.
	<ul> <li>113. Carefully trim the wheel liners using an oscillating multi-tool.</li> <li>Image: Cutting operations can result in flying metal debris, safety glasses should be worn.</li> </ul>
10mm	<ul> <li>114. Mark the wheel arch liner as shown and trim using an oscillating multi-tool.</li> <li>Push wheel arch liner in behind wing.</li> <li>Image: Cutting operations can result in flying metal debris, safety glasses should be used.</li> </ul>
	worn. 115. 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.



## 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

