



FITTING INSTRUCTIONS

Part Number: **3412760 SUMMIT MKII BAR LC76/8/9 MY24 W/FLARE**
3412770 SUMMIT MKII BAR LC79 MY24 W/FLARE

Suited to **TOYOTA LANDCRUISER 70 SERIES MY24**
vehicle/s:

Optional **3512170 – STONE SHIELD AND RADIATOR GUARD**
Fitting Kit: **3512150 – WINCH FIT KIT 70 SERIES MY24 | SUMMIT MKII BAR**

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:

METRIC SOCKET SET	METRIC RING AND OPEN-ENDED SPANNER SET
4MM ALLEN KEY	PHILLIPS AND FLAT HEAD SCREWDRIVER SET
TORQUE WRENCH	DIGITAL ANGLE GAUGE

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 PC 10.9	54Nm	40lbft
M12 PC 10.9	92Nm	69lbft
M12 PC 11.9	112Nm	82lbft

3412760

WAGON/DUAL CAB & TROOPY CAB PARTS LISTING

APPLICATION.	PART NO.	QTY	DESCRIPTION
BULL BAR TO CHASSIS	5848414	4	PACKER SIDE LC70 SERIES
	5848357	4	PACKER 78 SERIES BAR
	5848419	2	PACKER TOP/BOTTOM 4mm LC70
	6151686	8	BOLT HXHD M10x1.25x30 FT PC10.9 TZP480
	4584366	8	WASHER FLAT M10X30X4 HV300 TZP480
	6151762	2	BOLT HXHD M12X1.25X140 PC10.9 ZAS1000
	4584363	4	WASHER FLAT M12X26X4
	6151835	2	NUT HEX NYLOC M12X1.25 PC10.9
COMBINATION LAMPS TO BULL BAR	3500991	1L1R	LAMP CLUSTER, ARB SUIT SUMMIT
	37500122	2	LIGHT RETAINER BRKT LC70
	6151459	4	SCREW BHD M6x16
	4584329	4	WASHER FLAT M6X12.2X1.2
	6151561	4	NUT FLANGE M6X1.0
	6151300	2	NUT M6 CAGED 2.6-3.5MM 956-C
	6152094	2	SCREW PHD M6X1.0X30 NYN PATCH
	6821522	1	HARNESS SUITS LC70 MKII SUMMIT
COVERSTRAP FITMENT	3163294	1	KIT, CVR STRAP SUIT SUMMIT
WINCH COVER PANEL	6523321	1	PANL WINCH COVER MB SUIT PXIII
	6151729	4	SCREW HEX FLANGE M6x20
	4584327	8	WASHER FLAT M6X16X1.2
	6151223	4	NUT HEX NYLOC M6X1.0
GRILLE FITMENT	3163295	1	KIT, GRILLE OUTER SUIT SUMMIT
	3163316	1	RDR CVR LRG, SUIT SUMMIT
RADAR CONTROL MODULE FITMENT	37500120	1	RADAR BRKT UPPER
	37500121	1	RADAR BRKT LOWER
	6151223	6	NUT HEX NYLOC M6X1.0 ZNB480
	4584329	14	WASHER FLAT M6X16X1.2 BTZP480
	6151459	6	SCREW BHD M6x16 BTZP480
	4584442	2	WASHER FLAT M6X12.5X1.6 NYLON
	6821456	1	RADAR HARNESS EXTENSION
	6151584	2	BOLT HXHD M6x1.0x40
	VH20010003	2	SPRING COMP STAINLESS 25X6.0ID
NUMBER PLATE FITMENT	180302	5	CABLE TIE 4.8X180MM BLACK
	6151459	2	SCREW BHD M6x16 BTZP480
	4584329	4	WASHER FLAT M6X12.2X1.2 BTZP480
	6151223	2	NUT HEX NYLOC M6X1.0 ZNB480
REFITMENT OF TOW HOOK	4581011	4	WASHER FLAT M12X27X4

WINCH AND CONTROL BOX FITMENT (REQUIRES KIT 3512150)	3195186	1	PLT MAGNUM CBOX MNT SUIT PXIII
	37500124	1	BRKT CONTROL BOX LC70 MKII
	37500125R/L	1R1L	BRKT RHSILHS NP LC70 MKII
	37500126	1	BRKT NUMBER PLATE LC70 MKII
	4581307	1	WASHER FLAT M8X20X2
	4584310	2	WASHER FLAT M6X25X2.8
	4584327	2	WASHER FLAT M6X16X1.2
	4584329	14	WASHER FLAT M6X12.2X1.2
	5848302	2	PACKER RBAR NYLON
	6151223	8	NUT HEX NYLOC M6X1.0
	6151443	2	SCREW BHD M6x20
	6151459	6	SCREW BHD M6x16
	6151561	2	NUT FLANGE M6X1.0
	6152008	4	BOLT FLANGE HEAD M6X1.0X25
	6250010	4	SPACER ROD END 17 X 12.6 X 10

3412770 SINGLE CAB PARTS LISTING			
APPLICATION.	PART NO.	QTY	DESCRIPTION
BULL BAR TO CHASSIS	5848414	2	PACKER SIDE LC70 SERIES
	5848448	2	PACKER INBOARD LC79 9/16ON
	5848357	4	PACKER 78 SERIES BAR
	5848419	2	PACKER TOP/BOTTOM 4mm LC70
	6151686	8	BOLT HXHD M10x1.25x30 FT PC10.9 TZP480
	4584366	8	WASHER FLAT M10X30X4 HV300 TZP480
	6151814	2	BOLT HXHD FL M12x1.25x170 PC11.9 ZAB1000
	4584363	4	WASHER FLAT M12X26X4
	6151835	2	NUT HEX NYLOC M12X1.25 PC10.9 ZP
COMBINATION LAMPS TO BULL BAR	3500991	1L1R	LAMP CLUSTER, ARB SUIT SUMMIT
	37500122	2	LIGHT RETAINER BRKT LC70
	6151459	4	SCREW BHD M6x16
	4584329	4	WASHER FLAT M6X12.2X1.2
	6151561	4	NUT FLANGE M6X1.0
	6151300	2	NUT M6 CAGED 2.6-3.5MM 956-C
	6152094	2	SCREW PHD M6X1.0X30 NYN PATCH
	6821522	1	HARNESS SUITS LC70 MKII SUMMIT
COVERSTRAP FITMENT	3163294	1	KIT, CVR STRAP SUIT SUMMIT
WINCH COVER PANEL	6523321	1	PANL WINCH COVER MB SUIT PXIII
	6151729	4	SCREW HEX FLANGE M6x20
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	6151223	6	NUT HEX NYLOC M6X1.0 ZNB480
	4584329	14	WASHER FLAT M6X16X1.2 BTZP480
	6151459	6	SCREW BHD M6x16 BTZP480
	4584442	2	WASHER FLAT M6X12.5X1.6 NYLON
	6821456	1	RADAR HARNESS EXTENSION
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REFITMENT OF TOW HOOK	6151223	2	NUT HEX NYLOC M6X1.0 ZNB480
	4581011	4	WASHER FLAT M12X27X4
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	4581307	1	WASHER FLAT M8X20X2
	4584310	2	WASHER FLAT M6X25X2.8
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	6151459	6	SCREW BHD M6x16
	6151561	2	NUT FLANGE M6X1.0
	6152008	4	BOLT FLANGE HEAD M6X1.0X25
	6250010	4	SPACER ROD END 17 X 12.6 X 10

FITTING PROCEDURE: PREPARATION TO VEHICLE



1. Remove number plate and set aside.



2. Remove radiator cover panel by depressing eight screws, set aside for reuse.



3. Remove five M6 Bolts from top of grille, set aside for reuse.



4. Disconnect the radar located behind the grille.



5. Remove the grille by gently releasing all clips across the lower edge and sides, set aside for reuse.



6. Remove four M6 bolts from underside of bumper and discard.



7. Remove five scrivets from the top face of the bumper and discard.



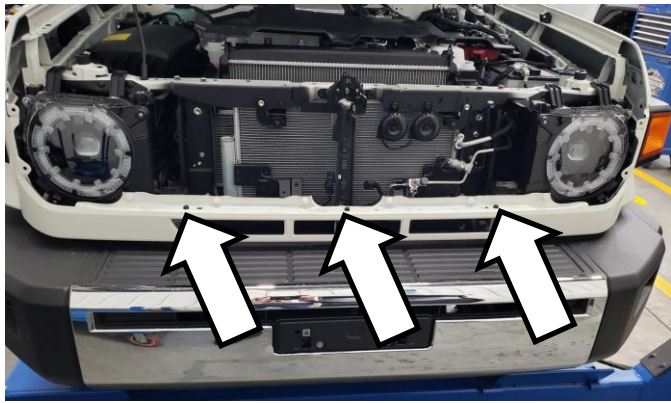
8. Remove nuts from each outer corner of the bumper and discard.



9. For vehicles equipped with factory fog lamps:
 - a) Remove scrivet retaining fog lamp connector shroud.
 - b) Disconnect fog harness.



10. Remove plastic component of front bumper from vehicle and discard.



11. Remove all three screws from top edge of front sheet metal panel, set aside for reuse.



12. There are two clips at each end of the panel, carefully depress the catches with a thin trim removal tool to release.

NOTE – Take care not to scratch paintwork.



13. Carefully set panel aside on a soft surface.



14. Remove hex bolts from the top of the steel bumper structure over each chassis rail and discard.



15. Remove the front facing M10 hex head bolts, four per side. Discard.



16. For vehicles equipped with factory fog lamps, disconnect the second section of fog lamp harness.



17. Remove upper steel section of bumper and discard.



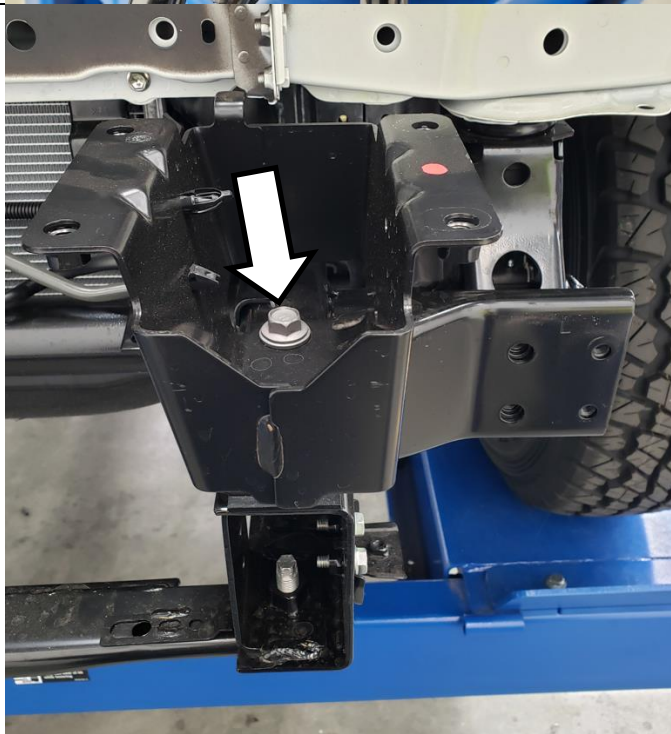
18. If fitted, completely remove both sections of the fog lamp harness and retain for reuse.



19. Remove plastic radiator underpanel by undoing four hex bolts, retain for reuse.



20. Remove three bolts retaining OEM tie down point, set aside for reuse.



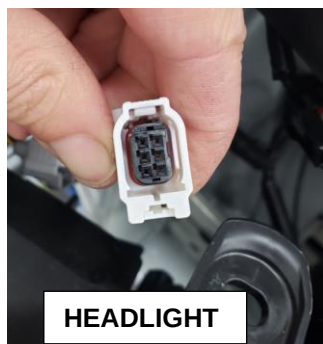
21. Remove M12 bolt from each chassis rail, discard both.



22. Remove and discard last remaining component of OEM bumper.



23. Remove cover located in the passenger side wheel arch. Set aside for re-fitment.



HEADLIGHT



INDICATOR

24. Unplug the 6 pin connectors from the headlights and 2 pin connectors from the indicators on both sides of the vehicle.
25. Connect the supplied wiring harness to the indicator, headlights and vehicle harness. Route underneath headlights to the front of the car.

NOTE – The harness has a PINK high beam pickup (shown) to aid driving light installation. Route this harness on the side of the car most convenient for installation.

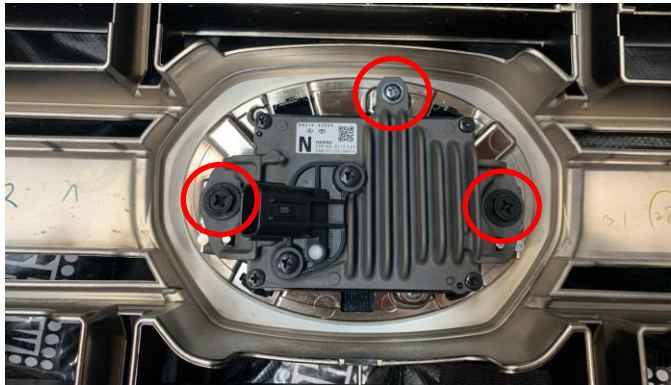


6821522 - Harness

26. Replace plastic cover removed in Step 23.



27. Route the wiring harness through the inner guard, into the auxiliary fuse box and secure to the centre terminal shown below.
28. Secure harness with cable ties.



29. Place the grille face down on a soft surface, remove radar using a Phillips head screwdriver and place in a safe spot

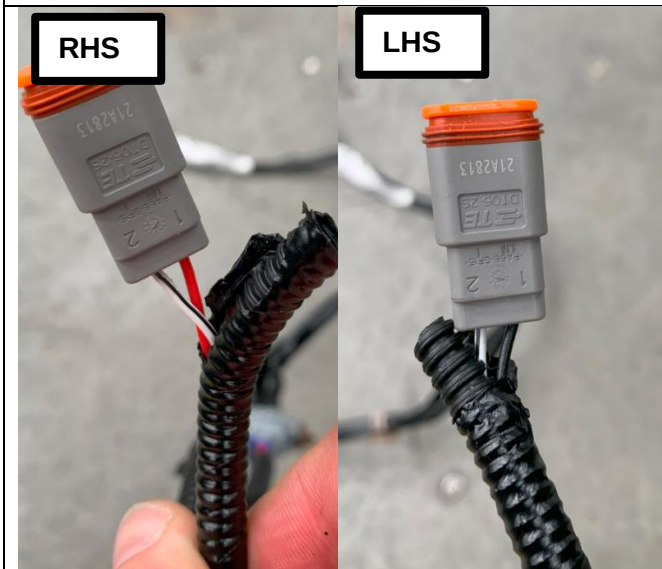
Warning: Care must be taken not to drop radar module.



30. Plug the provided radar extension loom into the vehicle radar loom and feed underneath grille.



31. Refit the radiator cover & grille removed earlier.



32. If the vehicle comes with OEM fog lights, cut the OEM connector off the fog light harness (previously removed), and fit the Deutsch connectors as shown. If there were no OEM fog lights on the vehicle, use ARB harness 3500520.

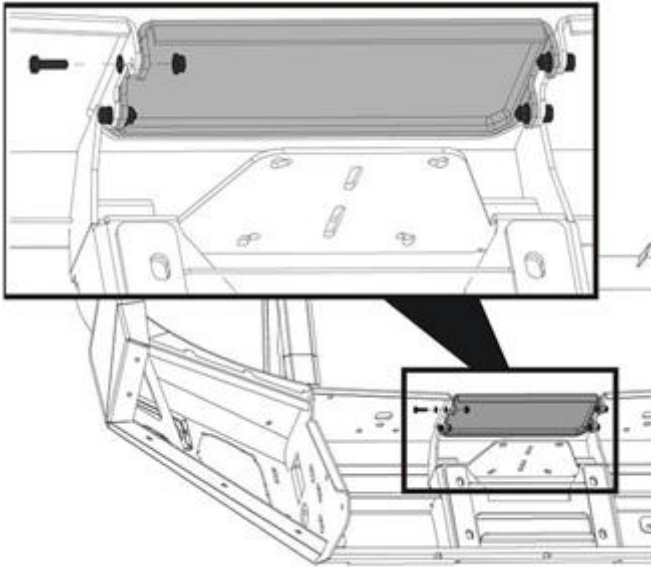
For vehicles with the OE fog lights, use the following table for wiring;

Side	Deutsch Pin	Vehicle Wire Colour
RHS	1	Red
RHS	2	White/Black
LHS	1	Black
LHS	2	White/Black



33. Plug in the OE fog light harness removed earlier.

FITMENT OF RADAR BRACKETRY

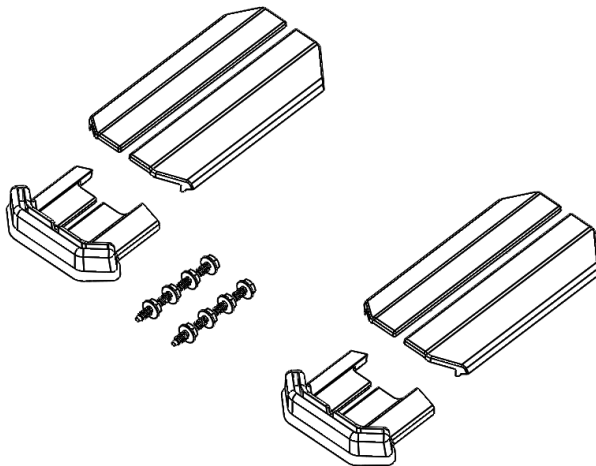


34. If fitting a winch refer to instruction 37800175 supplied with winch fitting kit 3512150.

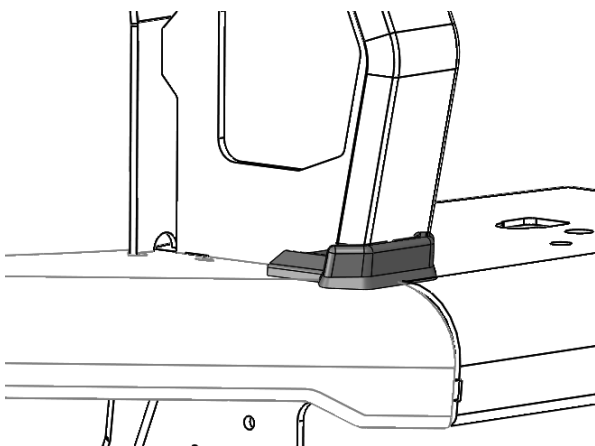
If not fitting a winch, assemble the winch cover panel to the bar using four M6 x 20 hex bolts, 16mm flat washers and nyloc nuts.



M6 - 9 Nm.

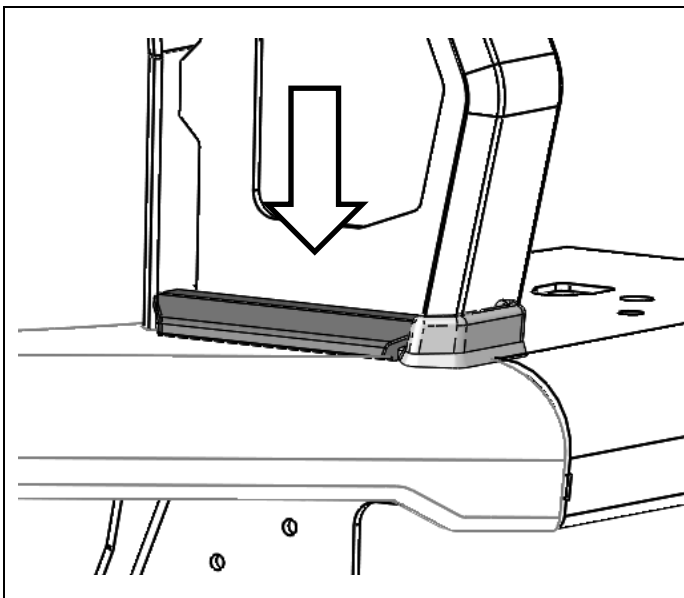


35. Identify the cover strap plastics kit, 3163294.

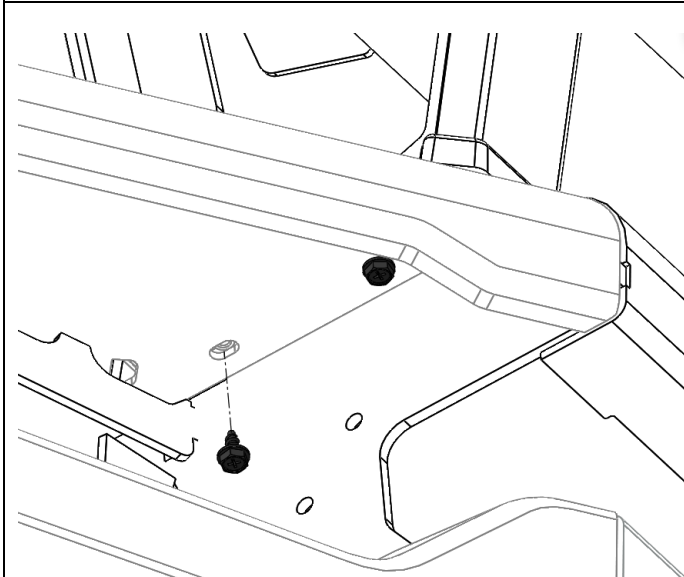


36. Fit the rubber intersection mouldings to the base of each upright coverstrap.

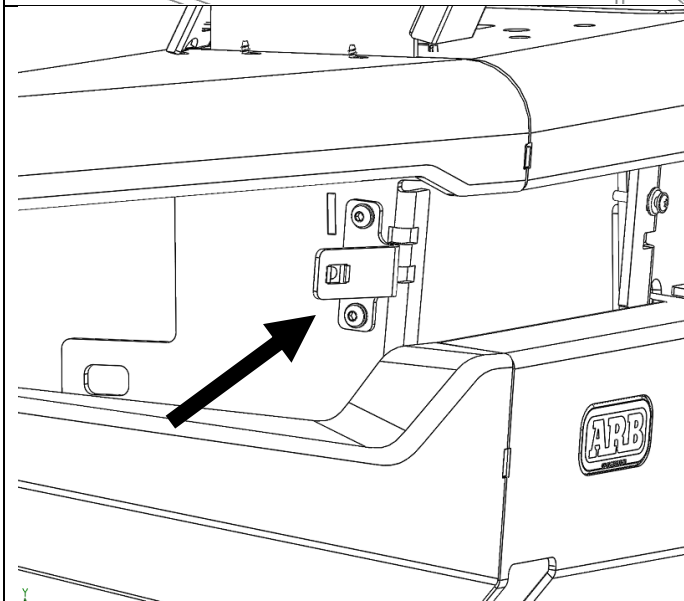
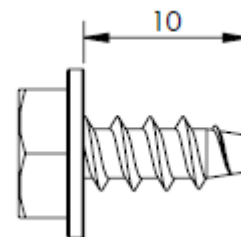
Ensure that the skirt of the rubber moulding is not folded back on itself and is sitting flat against the bull bar.



37. Place the plastic cover down onto the rubber moulding, repeat on both sides of the coverstraps.



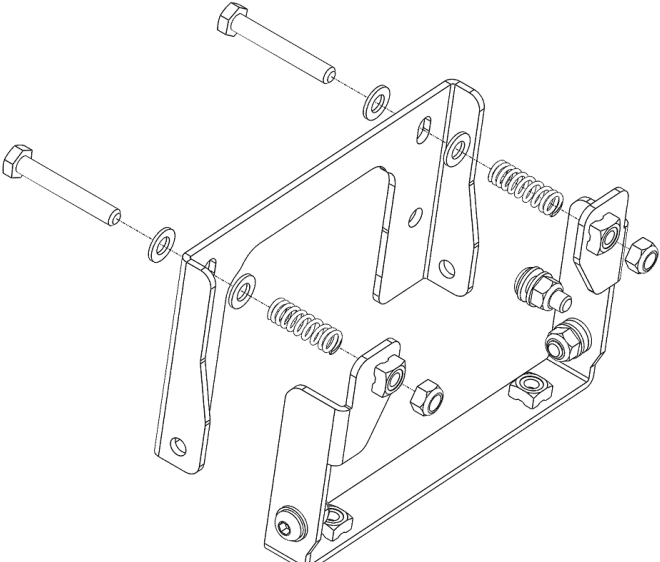
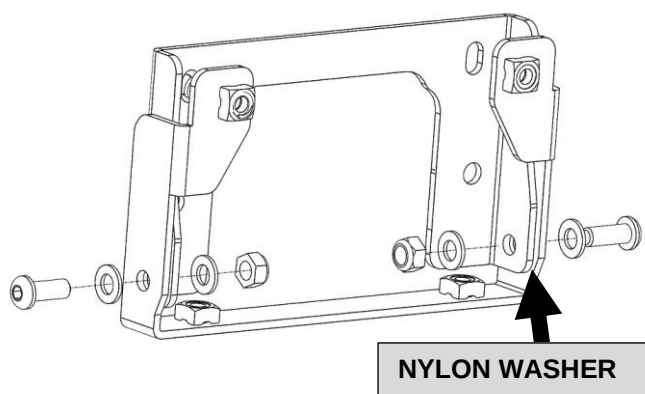
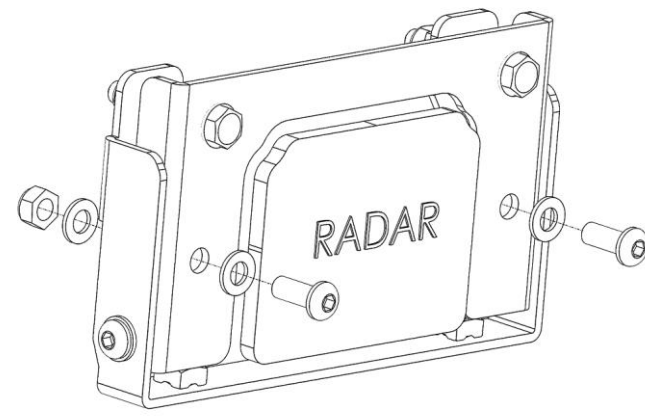
38. From underneath, fit two screws into each plastic cover. Tighten until the covers are secure and have firmly clamped the rubber moulding.

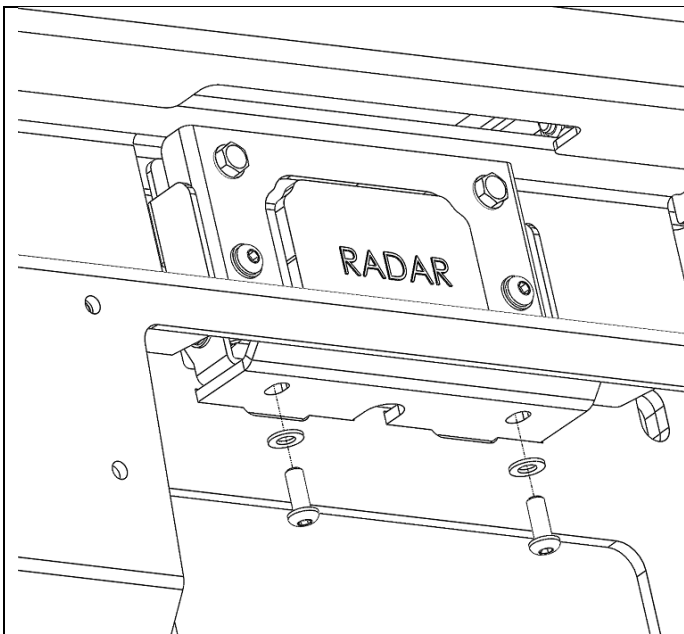


39. Assemble both fog cluster mounting brackets onto the outside of the uprights with M6 button head screws, washers and flange nuts. Torque to specification.
40. Assemble silver M6 cage nuts into both fog cluster mounting brackets. Ensure they are on the back of the bracket as shown.



M6 - 9 Nm.

	41. Install two M6x40mm hex head screws, four 12mm M6 washers, two M6 nyloc nuts and two springs into the slotted holes of radar bracket 37500120 as shown. Do not overtighten nuts, screws need to be free to spin.
	42. Attach the radar bracket to the mounting bracket using two M6x20mm button head screws, four 16mm M6 washers, two M6 nyloc nuts and two nylon spacers. Ensure nylon spacer is placed between steel components 43. Thread screws installed in step 41 into weld nuts. This will enable adjustment of radar bracket.
	44. Install radar module removed in Step 29 into radar bracket assembly using two M6x16mm button head screws, four 16mm M6 washers and two M6 nyloc nuts.  M6 - 9 Nm. Warning: Care must be taken not to drop radar module.



45. Insert radar bracket into the bull bar from the front and secure using two M6x16mm button head screws, two 16mm M6 washers. Torque to spec.

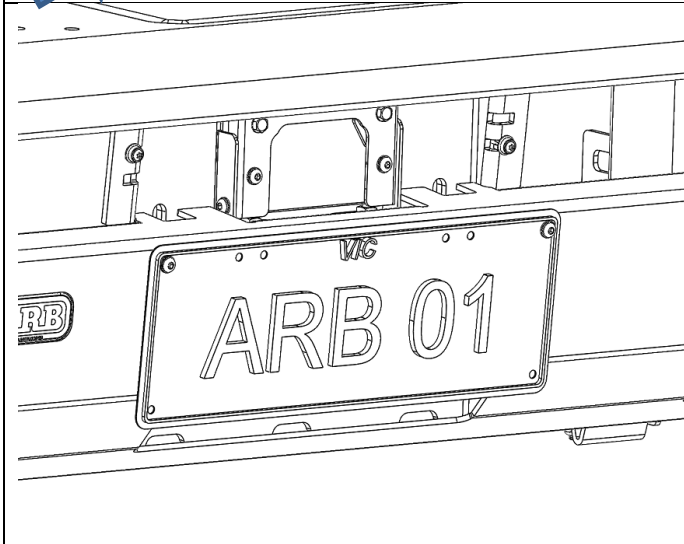
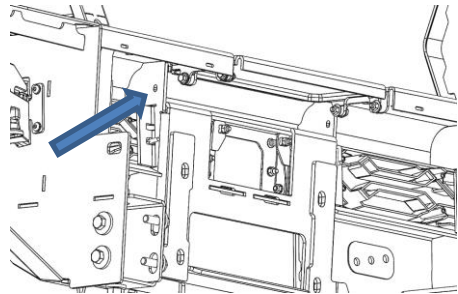
Note: Screws must be inserted from underneath.



M6 - 9 Nm.



46. Connect radar extension loom to radar module. Use cable ties to secure to a suitable area.



47. Fit number plate using two M6x16mm button head screws, two M6 nyloc nuts and four M6x12.2x1.2 flat washers.

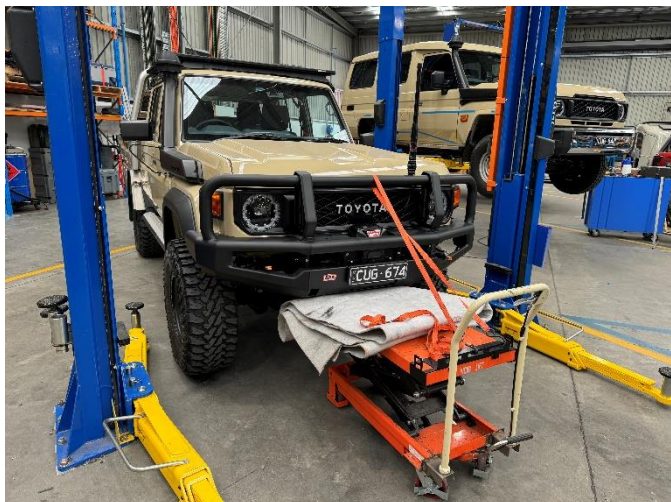


M6 - 9 Nm.

IF FITTING WINCH REFER TO WINCH FIT KIT 3512150 FITTING INSTRUCTIONS

FITMENT OF WINCH REQUIRES WINCH FIT KIT 3512150

FITMENT OF WINCH WITH SYNTHETIC ROPE MAY REQUIRE (3500605) HAWSE FAIRLEAD SPACER KIT OR OFFSET HAWSE



53. With the help of an assistant or lifting device, lift the bull bar onto the chassis rails of the vehicle. Ensure that the radar extension loom has been plugged into the radar before mounting bar.
54. Align the wings with flare/quarter panel and ensure there is approximately 10-15mm of clearance.

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.



55. Align the mounting holes and fit two M12 x 170mm PC11.9 (single cab) or M12 x 140mm PC10.9 bolts with M12 flat washers through the chassis from the bottom. Fix with M12 flat washers, and nyloc nuts.

NOTE: DO NOT FULLY TIGHTEN

56. Fit six M10 x 30 mm bolts and flat washers to the vehicle. Fit two on the outside of each chassis rail. Fit one to the upper hole on the inside of each chassis rail.
57. Align the bull bar to the vehicle making sure that both sides have even gaps to the front guards (15mm approx.). Fit packers in gaps between chassis and bar mounting bracket. In some cases, two packers on top of each other are required. Use the "U" shaped packers for top and bottom and the "M" shaped packer for the sides. When all packers are fitted, tighten the M12 and M10 bolts. When all bolts are tight break off packer extensions.

Torque to specification.



M10 FINE PC10.9 - 54 Nm.



M12 FINE PC11.9 - 112 Nm.



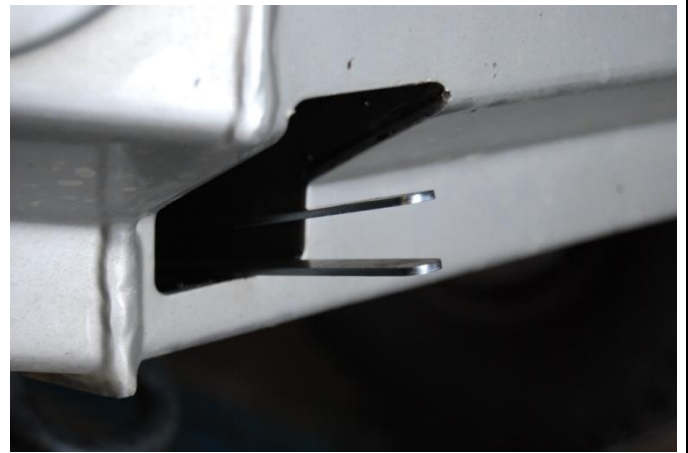
M12 FINE PC10.9 - 92 Nm.

Outside of chassis

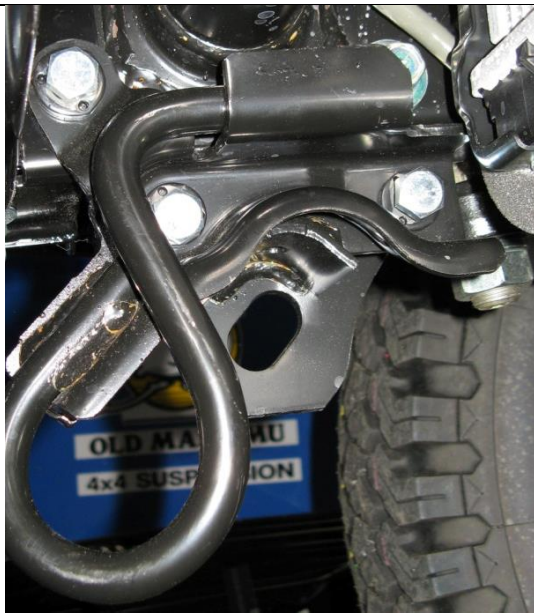
Inside of chassis

Refer to following 5 photos

MOUNTING PACKERS



GENERIC
IMAGES
SHOWN



58. Refit the tow hook/s to the vehicle using the original bolts removed in Step 20. Fit tow hook spacers (i.e. two 4mm thick washers 4581011) between the tow hook/s and each chassis rail/s for the two lower bolts.

NOTE: If not refitting the tow hooks to the vehicle fit one M10 x 30 mm bolt, flat washer to the lower inside holes of each chassis rail.

59. Refit the factory stone shield removed in Step 19.

Torque to specification.

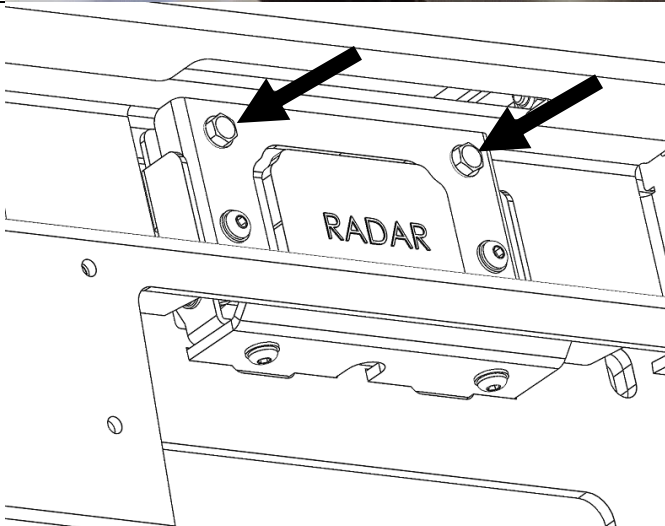


M10 FINE PC10.9 - 54 Nm.

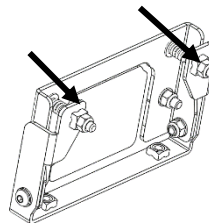


IMPORTANT: Front face of radar should be perpendicular to ground. If not, adjust accordingly.

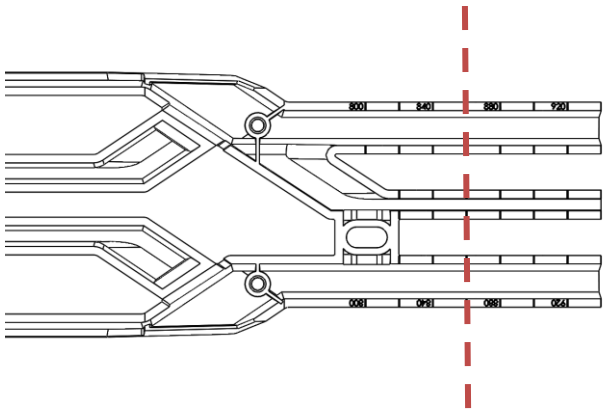
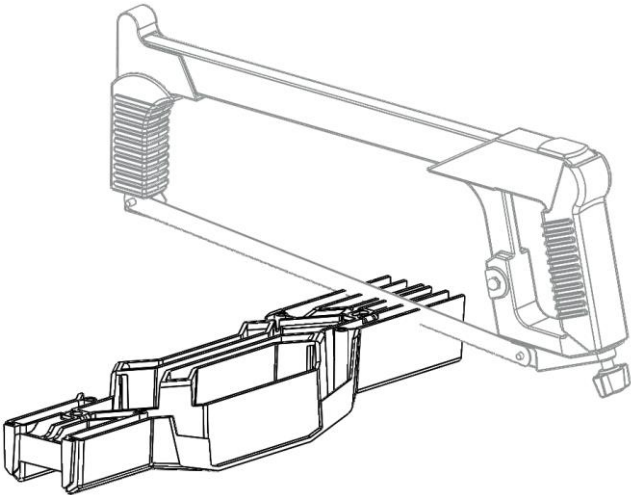
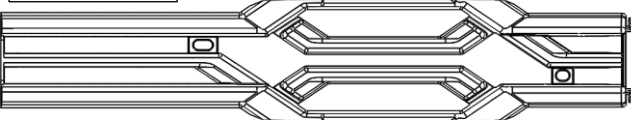
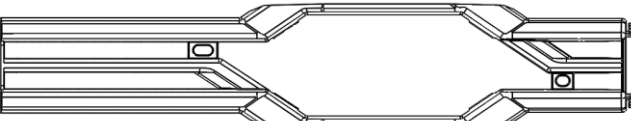
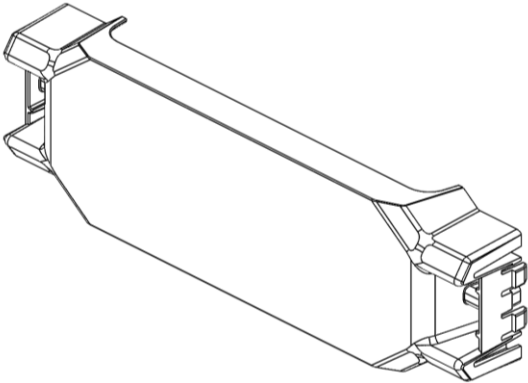
60. Place a level on the front face of the sensor. The front face should be 90° degrees to level ground with a tolerance of $\pm 1^\circ$.

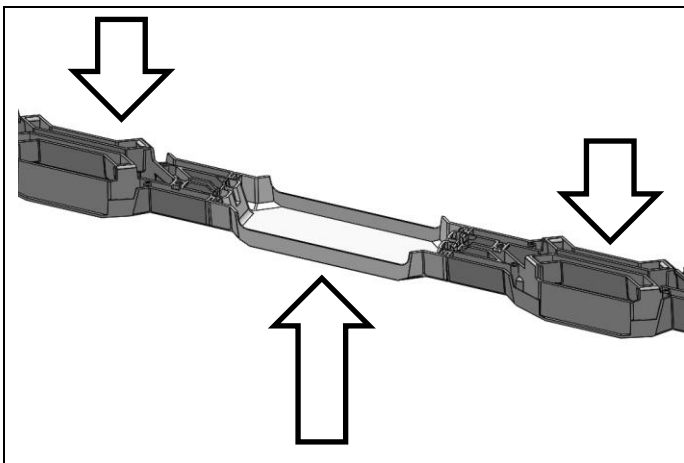


61. Using a 10mm socket, adjust the angle of the radar by winding the adjustment screws shown. Once radar is adjusted correctly, place a spanner on the nyloc shown below and torque to spec.

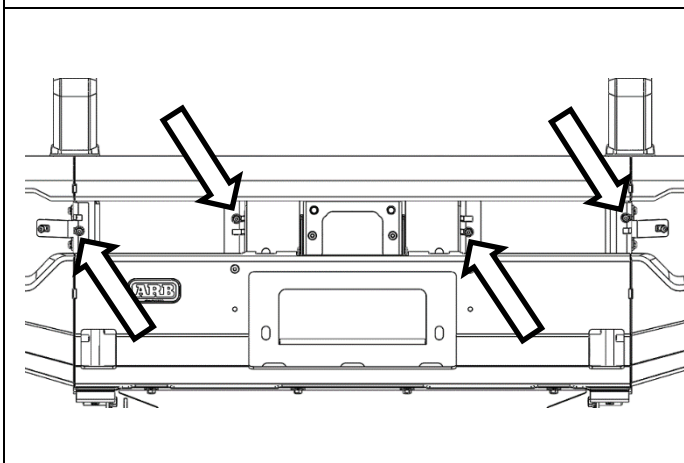


M6 - 9 Nm.

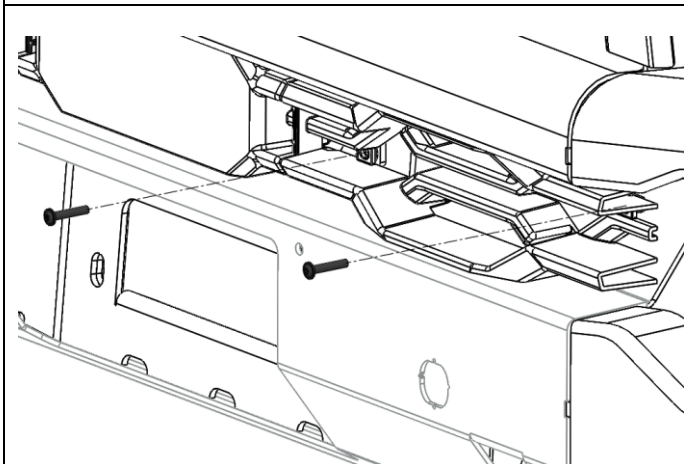
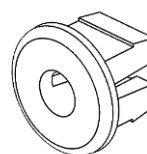
	62. Mark both grille panels to be cut at the 840mm markings on the back face.
	63. Use a hacksaw or similar cutting tool to carefully cut the grille panel at the positions marked in the step above. Discard the off cuts and clean up the cut edges using a file or sandpaper.
BEFORE  AFTER 	64. If fitting a winch, remove grille sections shown for access to clutch lever. Cut from rear with an oscillating multi-tool. 
	65. Identify the inner grille section kit, 3163316.



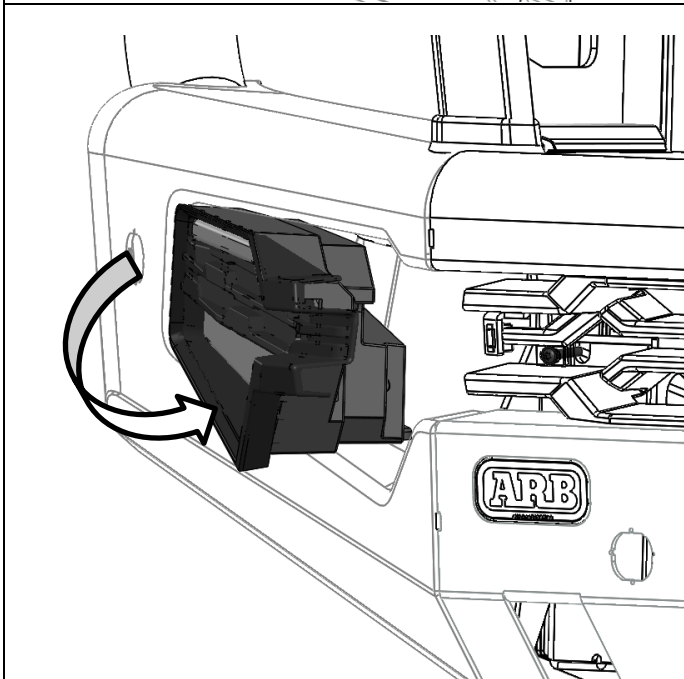
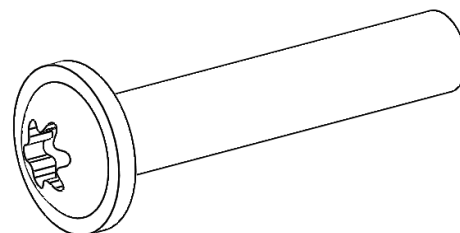
66. Assemble centre section into both outer sections, make sure clips are fully engaged.



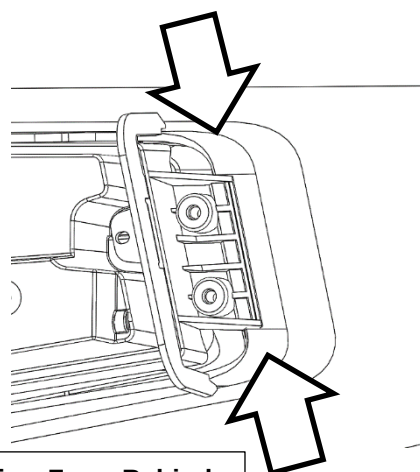
67. Press four round plastic grommets from grille kit into the square cut-outs seen from the front of the bull bar.



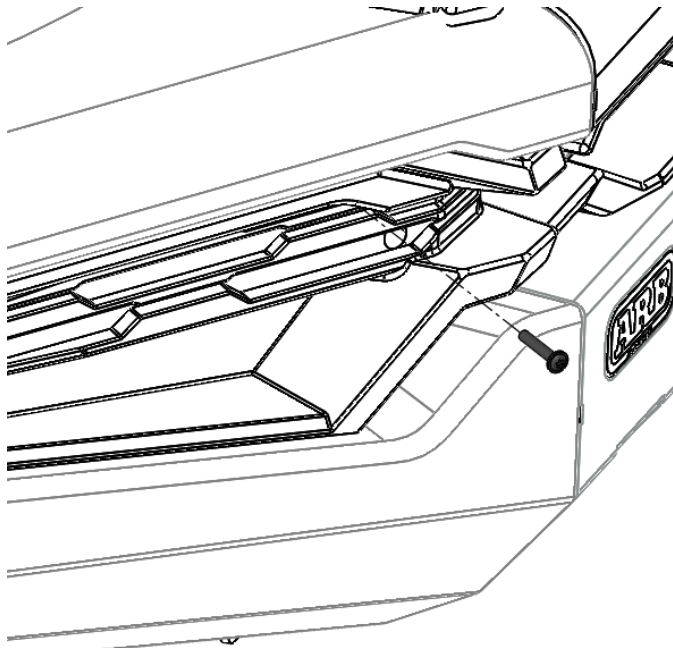
68. Attach grille assembly to bull bar using four Torx head screws supplied in grille kit.



69. 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



70. Secure lamp cluster with M6 Torx head screw.
Connect lighting harness into the back of each fog light cluster.
Connect fog harness connectors to ARB harness.



M6 - 9 Nm.

OPTIONAL EXTRAS



RADIATOR GUARD AND STONE SHIELD

The radiator guard and stone shield shown in the photo are available from ARB stores as accessories. The ARB kit number is 3512170.

FRONT RECOVERY POINT

The front recovery point shown in the photo are available from ARB stores as accessories. The ARB kit number is 2812060/070.

FITTED PRODUCT

ONCE BULL BAR IS FITTED:

- ◆ Ensure all bolts are tensioned correctly.
- ◆ All wiring is clear of sharp edges and secured properly.
- ◆ Piping is secured well away from sharp or moving components.
- ◆ Check operation of winch, if fitted.
- ◆ Check all wiring and are functioning correctly.

FITTED PRODUCT

