

Part Number:	3940600 / 3940610
Product Description:	SUMMIT SAHARA COMBINATION BULL BAR – CAMERA, 6 SENSORS SUMMIT SAHARA COMBINATION BULL BAR – CAMERA, 4 SENSORS
Suited to vehicle/s:	FORD RANGER MY22
Optional	5100470 SAHARA TUBE KIT BLK 20" LED SUITS 3940600/610 INCL 5100280
Fitting Kits:	5100480 SAHARA TUBE KIT POLISHED SUITS 3940600/610 INCL 5100280
	3540240 WINCH INSTALL KIT
	6821430 or 6821440 – Switch Loom (Vehicles not equipped with factory fog lights)
	SJBHARNFRD – Solis Driving Light Loom

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:

ELECTRIC RIGHT ANGLE DRILL
Ø5.5, & Ø10MM DRILL BITS
MASKING TAPE
LARGE G-CLAMP
TORQUE WRENCH 9-100 Nm CAPACITY
TORX KEYS
LOCTITE 222
CRIMPING TOOL
SCISSORS

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	PROPERTY CLASS	Torque Nm	Torque lbft		
M6	8.8	9Nm	7lbft		
M8	8.8	22Nm	16lbft		
M10	8.8	44Nm	32lbft		
M12	8.8	77Nm	57lbft		
M12	10.9	92Nm	68lbft		

		PAR	TS LISTING
APPLICATION.	PART NO.	QTY	DESCRIPTION
	3750991	1	BRACKET CHASSIS RHS
	3750992	1	BRACKET CHASSIS LHS
	3753346R/L 4655105R/L	1 pr 1 pr	BRACE BRACKET SAHARA MOUNT ASSEMBLY
	4055105R/L	2	TUBE CHASSIS CRUSH SUIT RANGER M12x68.5mm
	6365081	2	INTERCOOLER ISOLATING BUSH
	4584363	4	WASHER FLAT M12x26x4 HV300 TZP480
	4584364	14	WASHER FLAT M8x26x4 HV300 BTZP480
	4584380	2	WASHER FLAT M10x22.9x2 HV300 BTZP480
FIT MOUNTS TO	5848520 6151528	4 2	PACKER 8mm SUITS RANGER NUT HEX NYLOC M12x1.75 PC10.9 ZP
CHASSIS	6151655	10/20	NUT FLANGE M8x1.25 PC8 TZP480 ENS 14/002
	6151688	2	BOLT HXHD M12x1.75x100 PC10.9 ZAS1000
	6151730	8/17	BOLT HXHD FL M8x1.25x20 FT PC8.8 BZP480
	6151752	4/8	NUT FLANGE M10x1.5 PC8.8 BTZP480
	6151965	4/10	BOLT HXHD FL M10x1.5x30 PC8.8 ZNB480
	6152042	4	BOLT HXHD FL M8x1.25x50 FT PC8.8 ZNB480 BOLT HXHD FL M12x1.75x50 FT PC10.9 ZAS1000
	6152066 4584329	4 2/13	WASHER FLAT M6x12.2x1.2 BTZP480
	6151213	2/11	BOLT HXHD M6x1.0x20 PC8.8 ZNB480
	6151223	2/9	NUT HEX NYLOC M6x1.0 ZNB480
	3195489	6	ADJUSTMENT SHIM PLATE
	6151173	4/14	NUT FLANGE M6 ZNB480 SERRATED
	6152008	4/20	BOLT HXHD FL M6x1.0x25 PC8.8 ZNB480
FIT BAR TO	6151480	6 6	NUT FLANGE M12x1.25 PC8.8 TZP480 SERRATED
MOUNTS	6151700 6151655	6 4/20	BOLT HXHD FL M12x1.25x35 PC8.8 TZP480 NUT FLANGE M8x1.25 PC8 TZP480 ENS 14/002
	6151730	4/17	BOLT HXHD FL M8x1.25x20 FT PC8.8 BZP480
	6151752	4/8	NUT FLANGE M10x1.5 PC8.8 BTZP480
	6151965	4/10	BOLT HXHD FL M10x1.5x30 PC8.8 ZNB480
	3163295	1	OUTER GRILLE KIT SUMMIT
	3163316	1	
	3500991 3753258R/L	1	ARB LAMP CLUSTER KIT SUMMIT CLUSTER MOUNTING BRACKET
	3753256R/L	1 pr 2	GRILLE RETAINING BRACKET
FIT LIGHTS AND	4584329	2/13	WASHER FLAT M6x12.2x1.2 BTZP480
MOULDINGS	6151173	6/14	NUT FLANGE M6 ZNB480 SERRATED
	6151213	2/11	BOLT HXHD M6x1.0x20 PC8.8 ZNB480
	6152008	4/20	BOLT HXHD FL M6x1.0x25 PC8.8 ZNB480
	6152094 6151300	2 2/8	SCREW PHD M6x1.0x30 PC8.8 TX ZNB 480
	6523506R/L	2/0 1 pr	NUT CAGED M6 2.6-3.5 956-C UNDER WING PANEL
	6523506R/L	1	CENTRE PANEL
FIT STONE	6151300	6/8	NUT CAGED M6 2.6-3.5 956-C
GUARDS	6151526	6	NUT CAGED M6 1.8-2.7 BZP480
	6151965	2/10	BOLT HXHD FL M10x1.5x30 PC8.8 ZNB480
	6152008	12/20	BOLT HXHD FL M6x1.0x25 PC8.8 ZNB480
FIT WINCH	6523321 4584329	1 4/13	WINCH COVER PANEL WASHER FLAT M6x12.2x1.2 BTZP480
COVER PANEL	4584329 6151213	4/13	BOLT HXHD M6x1.0x20 PC8.8 ZNB480
	6151223	4/9	NUT HEX NYLOC M6x1.0 ZNB480
	4584329	2/13	WASHER FLAT M6x12.2x1.2 BTZP480
FIT LICENCE	5848302	2	PACKER RB NYLON
PLATE	6151459	2	BOLT BH M6x16
	6151173	2/14	NUT FLANGE M6 ZNB480 SERRATED
	3753232	1	RADAR MOUNTING BRACKET HARNESS BULLBAR FORD ENG
	6821426 6821427	1	HARNESS BULLBAR FORD ENG HARNESS BULLBAR FORD BCM
	3195508	1	BUSBAR WINCH POSITIVE
	3195561	1	BUSBAR WINCH EARTH
COMPONENTS	3753231	1	RELAY FUSE MOUNTING BRACKET
	4584329	3/13	WASHER FLAT M6x12.2x1.2 BTZP480
	6151213	1/11	BOLT HXHD M6x1.0x20 PC8.8 ZNB480
	6151223	1/9	NUT HEX NYLOC M6x1.0 ZNB480

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	6151655 6151730	6/20 5/17	NUT FLANGE M8x1.25 PC8 TZP480 ENS 14/002 BOLT HXHD FL M8x1.25x20 FT PC8.8 BZP480
	6151921	1	BOLT COHD M8x20 ZNB480 LWHD
	3501060 (600 ONLY)	1	SENSOR SURROUND KIT (x6)
	3540290 (610 ONLY)	1	SENSOR SURROUND KIT (x4)
	3195389 (600 ONLY)	1 1 1	CAMERA RELOCATION BRACKET
FIT ELECTRONIC	3750987 (600 ONLY)		CAMERA RELOCATION BRACKET
COMPONENTS	6821439 (600 ONLY)	1	CAMERA CABLE EXTENSION
ON HIGH SPEC	4721820 (600 ONLY)	1	HOSE 500mm
3940600	6151173	2/14	NUT FLANGE M6 ZNB480 SERRATED
	6151213	2/11	BOLT HXHD M6x1.0x20 PC8.8 ZNB480
	6151223	2/9	NUT HEX NYLOC M6x1.0 ZNB480
	6151496	2	BOLT HXHD M6x10 ZINC SILVER
	3163222	1-2 (610)	SENSOR BLANK PLUG
MISCELLANEOUS	37801051	1	BUMPER CUT TEMPLATE
	6191033	1	PINCH WELD LENGTH 412mm
	4584329	11 (600)	WASHER FLAT M6x12.2x1.2 BTZP480
		13 (610)	
LOW & HIGH	6151173	12 (600)	NUT FLANGE M6 ZNB480 SERRATED
SPEC FASTENER QUANTITIES		14 (610)	
	6151213	11 (600)	BOLT HXHD M6x1.0x20 PC8.8 ZNB480
QUANTILO		9 (610)	
	6151223	9 (600)	NUT HEX NYLOC M6x1.0 ZNB480
		7 (610)	

FITTING PROCEDURE				
TORIA - THE EDUCATION STATE	1.	Remove number plate and plastic moulding hidden behind.		
PROTOTIVE RELEASE ONLY - NOT FOR HOOVEDON ADDI-NOTOTIVE RELEASE ONLY - NOT FOR HOUT - NOT FOR HO	2.	Check cutting template 37801051 is printed at correct scale by measuring both vertical and horizontal 100mm axes in the lower LH corner. Using scissors, carefully cut out the template along the lines indicated.		
ensure une une une une une une une une une un	3.	Apply masking tape to outer right hand corner of bumper. On the RHS of the vehicle, align template with the wheel arch and the seam between the bumper and quarter panel. Apply masking tape to hold in place.		
	4.	Identify the leading radius of the bumper which is directly below the vehicle's grille. The bumper will be cut along this edge.		

	5.	Apply masking tape all the way across the front of the bumper from the template to directly under the centre of the grille. With a felt tipped marker, outline cutting edge of template onto bumper cut. Gently remove template and reverse for opposite side. Repeat steps <u>3-5</u> on LHS of the vehicle.
	6.	With a felt tipped pen, mark a straight line 600mm along the edge identified in the previous step.
	7.	Using a 1m steel rule or similar straight edge, draw a continuous straight line from the edge of the cutting template to the line marked in the previous step. Repeat on both sides. Cutting line should appear as shown.
	8.	Remove ten scrivets and screws holding the lower bumper to the vehicle. Discard fasteners. Remove lower three scrivets in each wheel arch.
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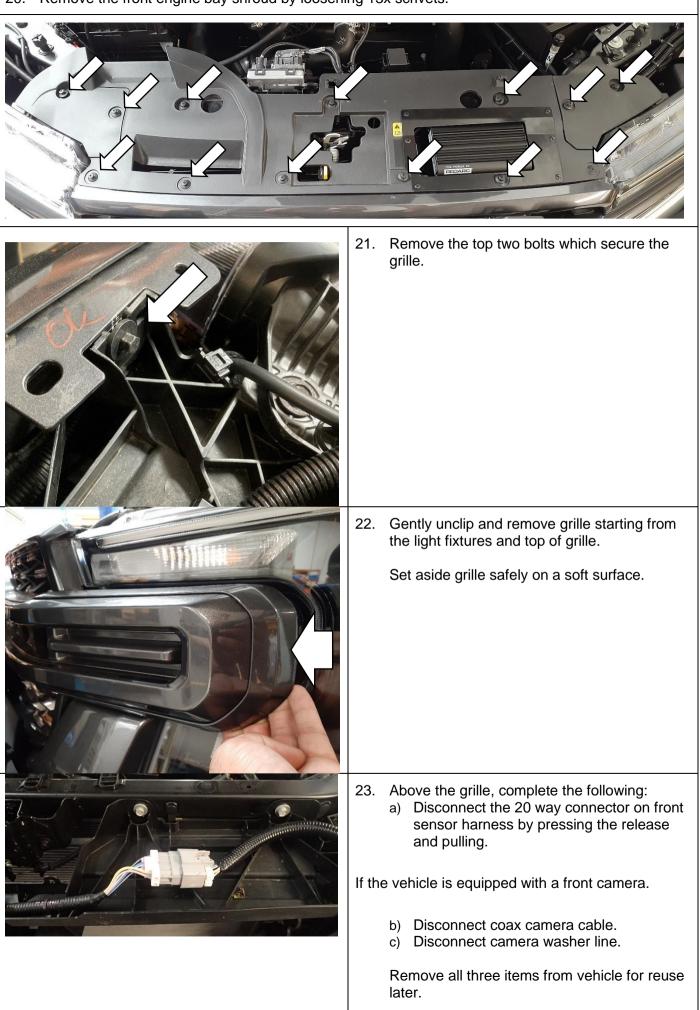
9.			shield by loosening set aside safely.
10.	using an oscila Wheel arch flai DO NOT REMO	tting mul res will a VE FLAR will need	ong marked lines titool. Iso need to be cut. ES FROM VEHICLE. It to be cut in the area
11.	Remove wheel Remove two so		cuts to access scrivets.
12.	lights and remo retainers, leave	ove parki e connec ed pen, m	mper, disconnect fog ng sensors from ted to loom. hark the position of
LO	Left Outer	RO	Right Outer
LM	Left Middle	RM	Right Middle
LI	Left Inner	RI	Right Inner

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<image/>	17.	Remove scrivets and black plastic cover from radar module. Disconnect vehicle harness from radar module.
	18.	Locate the radar cable near the LHS of the vehicle's intercooler, and remove the cable from the first two clips. This creates the necessary slack to reach the bull bar once fitted.
	19.	Unbolt front crash beam from chassis. Handle with care, the radar is sensitive and cannot be dropped.

20. Remove the front engine bay shroud by loosening 13x scrivets.

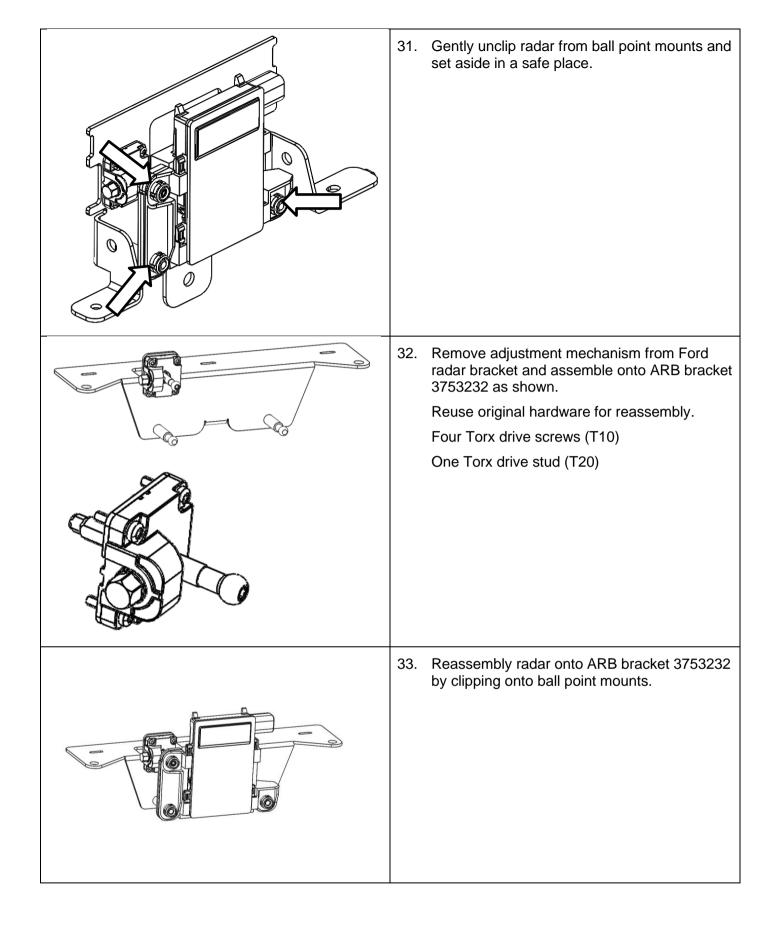


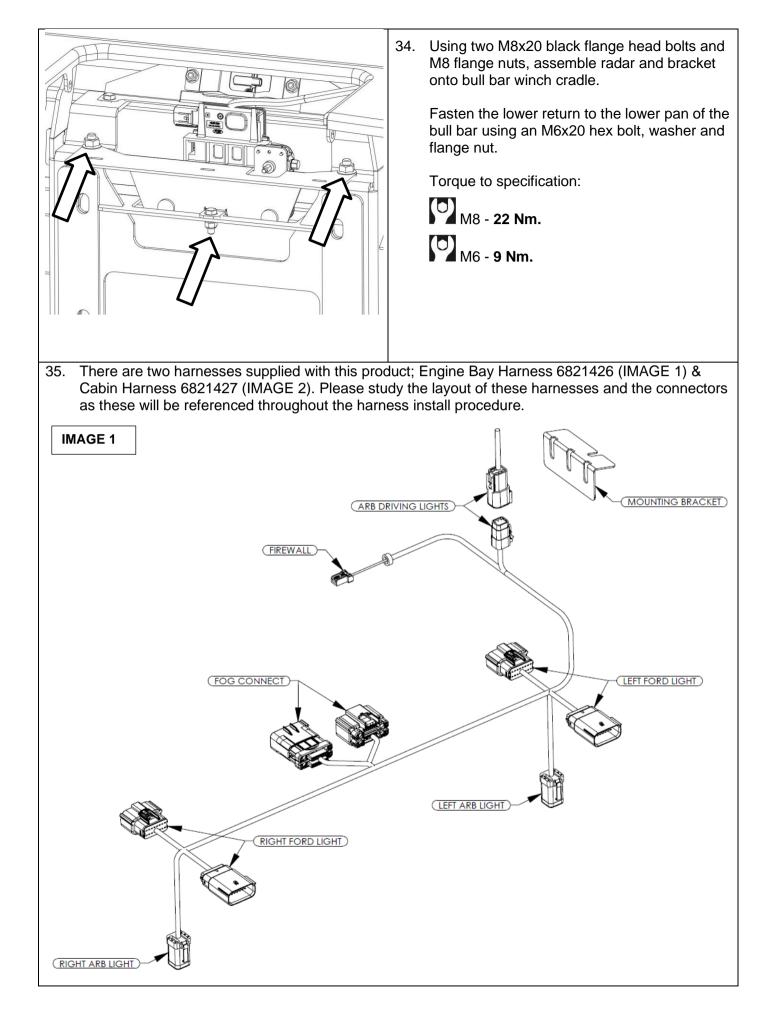
 CAMERA EQUIPPED VEHICLES ONLY Non camera equipped vehicles skip to Step <u>31</u>. 24. Place the grille face down on a soft surface to avoid damage to the grille. Loosen the three Torx screws in order to open the camera housing.
25. Carefully remove the camera from its housing, disconnecting the camera cable and the washer nozzle from the camera.Set the camera aside safely.
26. Remove the camera washer nozzle from the grille by removing the washer line from the back of the nozzle.
 27. Assemble the camera module and washer nozzle into ARB brackets 3750987 and 3195389. Clamp the camera and nozzle together by fastening the brackets with two M6x10 bolts and flange nuts.
M6 - 9 Nm.

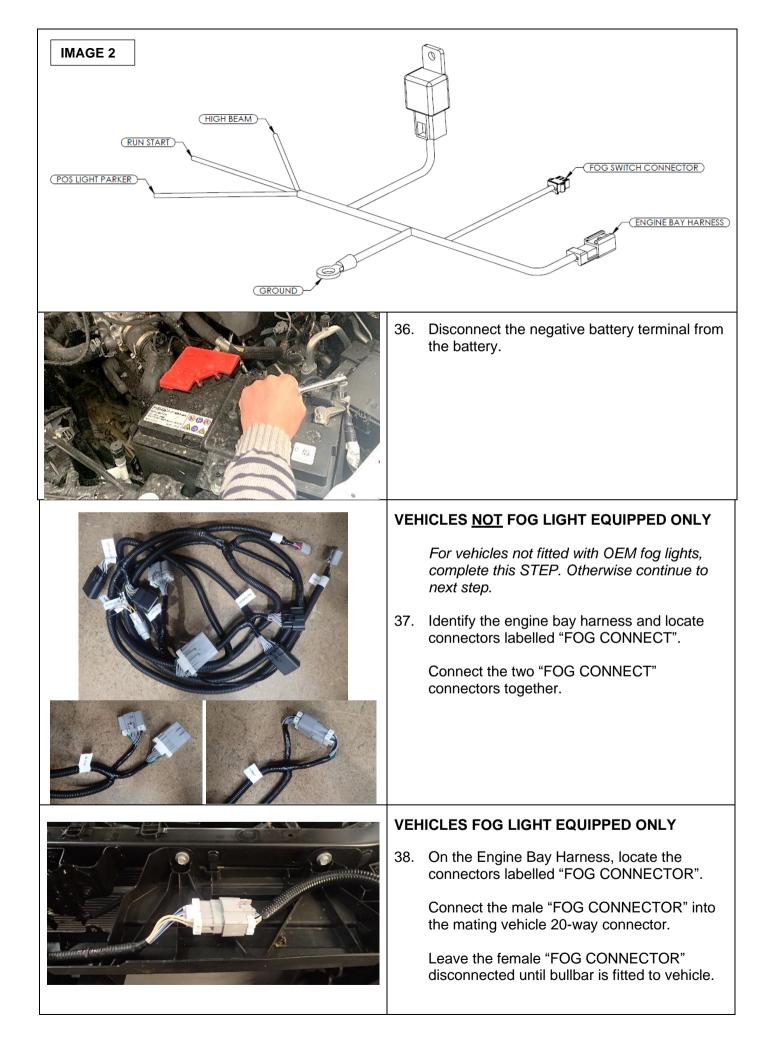
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and the second s	28. From the washer line previously removed, fit the white 90° elbow to the washer nozzle barb.
	29. Connect camera extension loom to camera. Connect original Ford washer line components and 500mm length of rubber hose (supplied in ARB kit) to 90° elbow fitted in previous step.
	 30. Fit camera bracket assembly to bar using two M6x20 bolts, M6x12 flat washers and M6 flange nuts. M6 - 9 Nm.







	For vehicles <u>not</u> fitted with an ARB BATTERY TRAY, the harness is routed above the radiator cover panel. For vehicles fitted with an ARB BATTERY TRAY, the harness is routed below the radiator cover panel.
39.	ARB BATTERY TRAY VEHICLES ONLY. Otherwise skip this step. Remove cable ties securing the vehicle harness on top of the radiator trim panel. Relocate the vehicle harness to beneath the radiator trim panel. This harness will be secured in place in future STEPS.
	Locate the connectors labelled "RIGHT FORD LIGHT" and "RIGHT ARB LIGHT" ON THE Engine Bay Harness.
	Route connectors and harness through the gap behind the right hand headlight and pull out above the headlight.

42. Disconnect the right hand vehicle headlight connector.Pullout vehicle headlight connector to above the headlight.
43. Connect the female connector labelled "RIGHT FORD LIGHT" with the vehicle headlight harness connector.
 44. Connect the male connector labelled "RIGHT FORD LIGHT" into the vehicle headlight connector. Route connector "RIGHT ARB LIGHT" down below vehicle headlight. Secure loose cables behind headlight with cable ties. Ensure cables are not contacting any sharp or metal edges.
 ARB BATTERY TRAY VEHICLES ONLY For non battery tray vehicles, continue to STEP <u>4</u> 45. Pull excess harness length to front of radiator Position harness below radiator trim panel and secure with cable ties as per image.

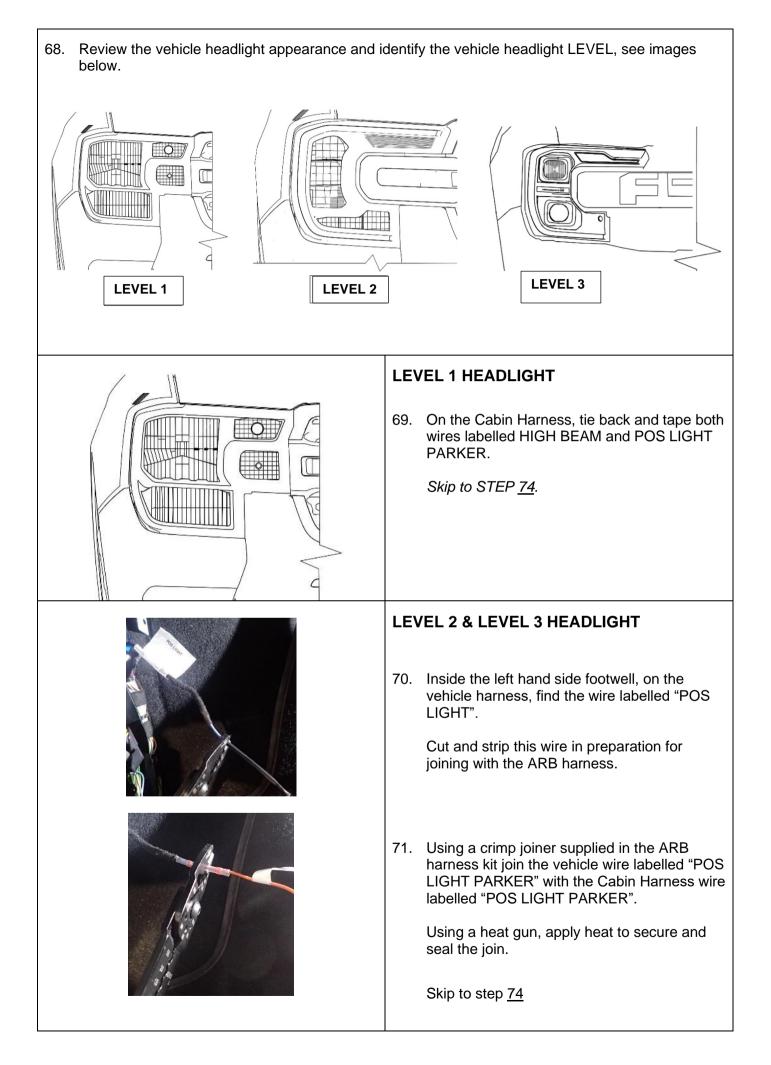
 ARB BATTERY TRAY VEHICLES ONLY Otherwise skip this step. 46. Route harness to the passenger side of the vehicle, bundle harness beneath the radiator trim panel. Secure harness bundle with cable ties. Secure harness to the BCDC mounting bracket with two cable ties as shown.
 47. Route remaining harness to left hand headlight. For vehicles with battery tray, this should route through the gap between the headlight and front upright support panel as shown. For vehicles without battery tray, the harness will route down from above the radiator trim panel
48. Pull connectors labelled "LEFT FORD LIGHT" to above the left hand headlight.
 49. Under the left hand front wheel arch, find the access window. Using a screw driver, remove the three retaining scrivets. Remove the access window panel to gain access to the left hand vehicle headlight connector.

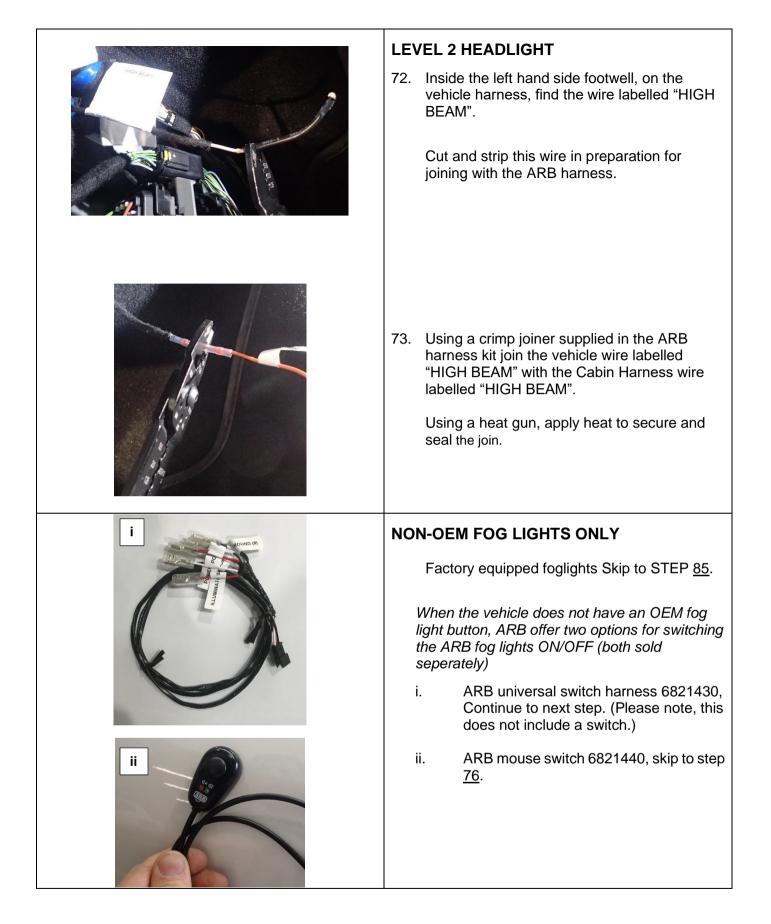
50. Reaching from above the headlight, press the vehicle connector release. While pressing, insert hand into access window and pull connector out from headlight.Pull connector with vehicle harness to above the headlight.
51. Connect the female connector labelled "LEFT FORD LIGHT" with the vehicle headlight harness connector.
 52. Connect the male connector labelled "LEFT FORD LIGHT" into the vehicle headlight connector. Again, use the wheel arch access window to assist. Route connector "LEFT ARB LIGHT" down below vehicle headlight. Secure loose cables behind headlight with cable ties. Ensure cables are not contacting any sharp or metal edges.
53. Replace wheel arch window panel.

54. Route remaining harness above headlight into the quarter panel cavity. Follow the left hand bonnet release cable and secure with cable ties.
55. Inside the left hand side foot well, find and remove the christmas tree plug as shown.A screw driver may assist to lever the plug out.
56. Lift the rubber seal surrounding the left hand side sill panel.
57. Remove door sill panel as shown. This can be removed by lifting the sill panel and then rotating up.

 58. On the Engine Bay Harness, find connector labelled "FIREWALL". Find a short length of plastic pipe or similar. On the end of the pipe, cut a sharp point. Join the "FIREWALL" connector to the pipe with electrical tape. Ensure the tape removes all sharp edges to ensure the taped connector can pass through the firewall grommet with ease.
59. On the engine bay side of the firewall, locate the firewall grommet behind the left hand side fuse box.
60. With a sharp blade, cut and remove the nipple from the firewall grommet.Spray the pipe and taped connector with lubricant.Feed pipe through firewall grommet nipple.
 61. From inside the vehicle, pull the pipe and "FIREWALL" connector through the firewall grommet. Remove tape and pipe leaving the "FIREWALL" connector inside the vehicle. Secure the harness in the engine bay with cable ties.
62. On the Cabin Harness identify the connector labelled "ENGINE BAY HARNESS".

63. On the cabin harness, join connector labelled "ENGINE BAY HARNESS" with Engine Bay Harness connector labelled "FIREWALL".
64. In the left hand side footwell, find existing ground point.Remove ground bolt with 8mm socket.
 65. Indentify ring terminal labelled "GROUND" on the cabin harness. Install ring terminal onto existing ground point and fasten with original bolt. FOOTWELL GROUND - 12 Nm.
 66. Inside the left hand side footwell, on the vehicle harness, find the wire labelled "RUN START". Cut and strip this wire in preparation for joining with the ARB harness.
 67. Using a crimp joiner supplied in the ARB harness kit join the vehicle wire labelled "RUN START" with the Cabin Harness wire labelled "RUN START". Using a heat gun, apply heat to secure and seal the join.



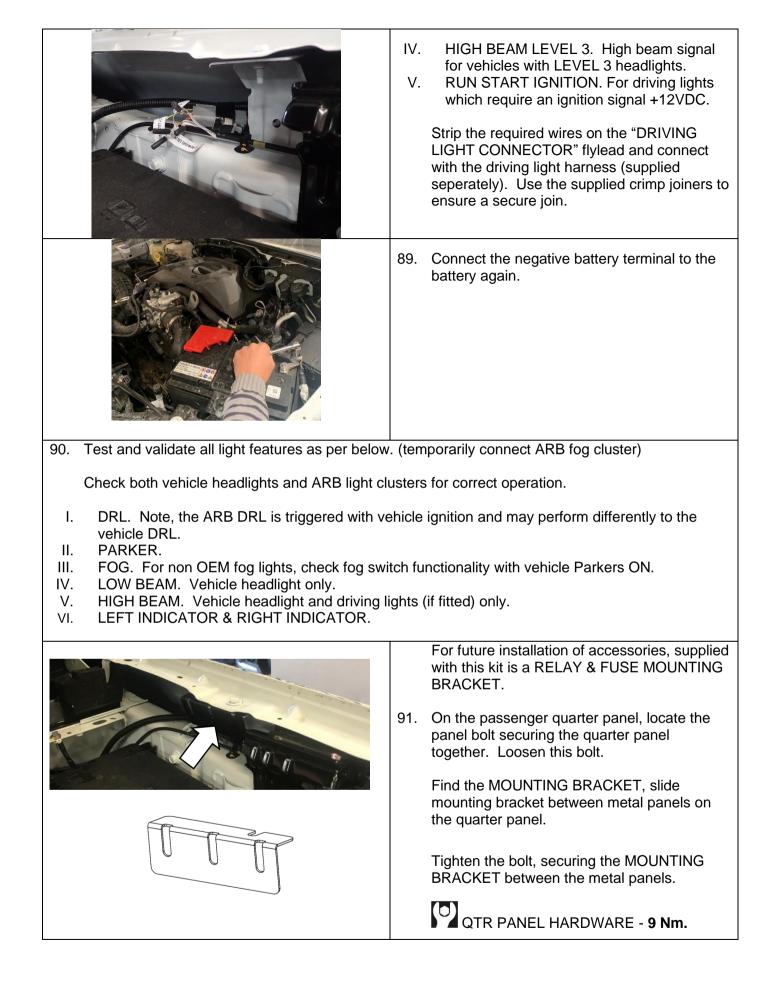


ENTER COMPENSION	 74. Identify the connector labelled "FOG SWITCH CONNECTOR" on the cabin harness. Remove the tape and connect with the mating connector on harness 6821430.
	 75. Route harness 6821430 to location where switch is mounted. Connect all spade terminals with appropriate switch terminals as per below: I. GROUND (8) – <i>illumination ground 1</i> II. GROUND (7) – <i>illumination ground 2</i> III. POWER IN (2) – from parker circuit supply IV. POWER OUT (3) – to fog lights V. ILLUMINATION (6) – from parker circuit supply Continue to STEP <u>85</u>.
	 ARB MOUSE SWITCH 6821440 ONLY 76. On the drivers side of the vehicle, remove the left hand switch panel. Pull from the base of the panel as shown.
	 77. Route the harness and connector through the left side of the steering column. Cable tie to the existing vehicle harness leaving slack in the harness for mounting below the switch panel.

	 78. Route harness and connector toward the front of the vehicle. Secure with cable ties ensuring the harness is not contacting any sharp or hot objects. Feed harness and connector behind the vehicle centre console.
	79. Remove vehicle glove compartment. To remove, the two clips on each side of the glove compartment must be released as shown.
ENTER COMPLETE	 80. From the glovebox side of the vehicle, reach behind the vehicle centre console and grab hold of the harness and connector. Pull through connector. Connect 6821440 with mating connector on Cabin Harness labelled "FOG SWITCH CONNECTOR".
	81. Behind the glovebox compartment, route Cabin Harness on existing vehicle harness and secure with cable ties.

 82. From the steering column side of the vehicle, reinstall the vehicle switch panel. Install mouse switch below the switch panel as shown. IMPORTANT: use primer on the dash surface before adhesion.
 83. In the left hand side footwell, bundle all cables and relay to existing vehicle harness. Secure with cable ties.
 84. Refit the passenger side footwell panel. Press at various locations to ensure all clips are engaged. Refit the footwell christmas tree plug. Reinstall the rubber seal. Press at various locations to ensure all is secure. Refit glove box into vehicle.
INSTRUCTION FOR DRIVING LIGHTS INSTALLATION ONLY. This harness includes a 6-way connector for driving light installation. The 6-way connector labelled ARB DRIVING LIGHTS has two fitment options: Fitment with ARB SOLIS driving lights. This requires harness SJBHARNFRD (sold seperately). Continue to next step. Fitment with all other driving lights. (sold seperately). See STEP 88.

 85. The SJBHARNFRD harness is supplied with three patch looms as shown. Each patch loom is labelled accordingly. Select the patch loom required for the vehicle headlight LEVEL as per below. I. "UPFITTER" For vehicle fitted with Upfitted switch panel. II. "LEVEL2, LEVEL3" For vehicles with LEVEL 2 or LEVEL 3 headlights. III. "LEVEL1" For vehicles with LEVEL 1 headlights.
 86. Remove the flylead connector labelled "DRIVING LIGHT CONNECTOR" from the Engine Bay Harness. Discard flylead connector. This should be located above the passenger side wheel arch, adjacent to the fuse box. Install the correct patch loom between the SJBHARNFRD harness connector and the Engine Bay Harness connector labelled "DRIVING LIGHT CONNECTOR".
87. Complete the instructions provided with the SJBHARNFRD harness.
 ALL OTHER DRIVING LIGHTS INSTALLATION 88. Locate the flylead connector labelled "DRIVING LIGHT CONNECTOR" from the Engine Bay Harness. The "DRIVING LIGHT CONNECTOR" flylead has various wires with labels attached. Select the wire required for the vehicle headlight LEVEL and driving light harness requirements as per below. I. POS LIGHT PARKER. For driving lights which require a parker light signal +12VDC. II. HIGH BEAM LEVEL 1. High beam signal for vehicles with LEVEL 1 headlights. III. HIGH BEAM LEVEL 2. High beam signal for vehicles with LEVEL 2 headlights.



<image/>	 For winch and dual battery installation, supplied with this kit is a BUSBAR POSITIVE. 92. On the battery positive terminal, remove one of the terminal nuts. If no terminal nuts are fitted, source M5 flange nut to suit terminal stud. Install the BUSBAR POSITIVE onto the vacant terminal stud. Refit flange nut securing the BUSBAR POSITIVE. Note, this kit includes a coach bolt and nut. These are used for the BUSBAR POSITIVE for ring terminal installation. Image: Positive terminal installation.
	 For future installation of accessories, supplied with this kit is a BUSBAR EARTH and M8 hardware. 93. On the body earth point, remove the bolt securing the earth cable to the body. Remove the ring terminal from the earth point and install the BUSBAR EARTH beneath the earth ring terminal. Refit the ring terminal and secure with original bolt. DATTERY/BODY GROUND - 20 Nm. M8 - 22 Nm.
	 94. Using an oscillating multitool, remove the lower return on the intercooler shroud as shown. (50mm x 480mm) Image: Show of the state of the



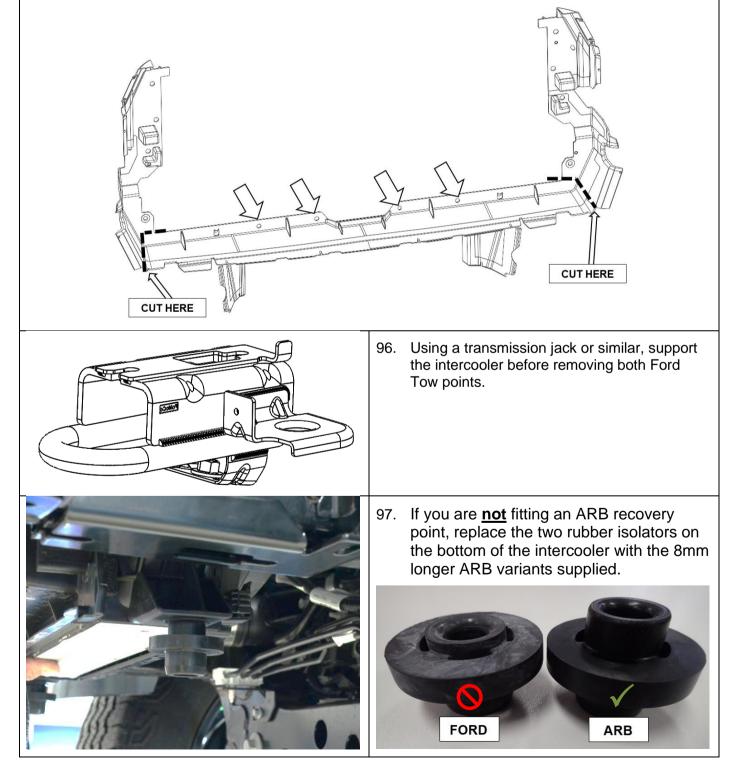
FOR WINCH INSTALLATION ONLY

95. For Winch installation, the horizontal section of rubber radiator shroud needs to be removed – SEE BELOW.

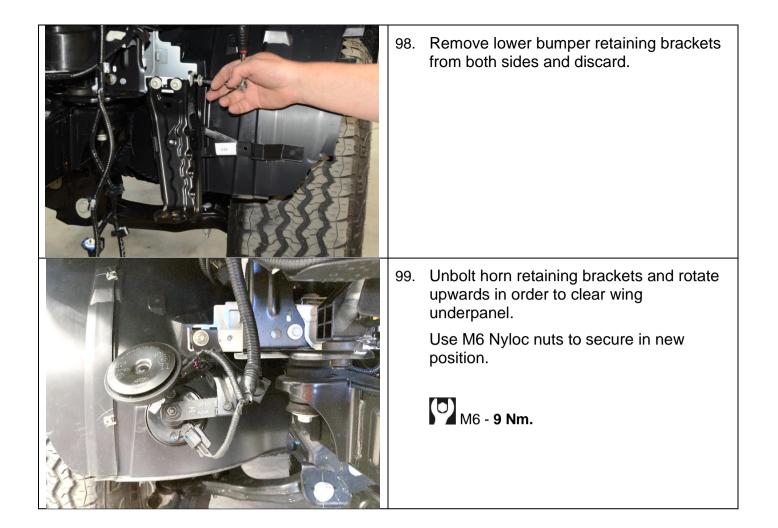
Using an oscillating multitool, cut and remove as shown. This can be performed on the vehicle.

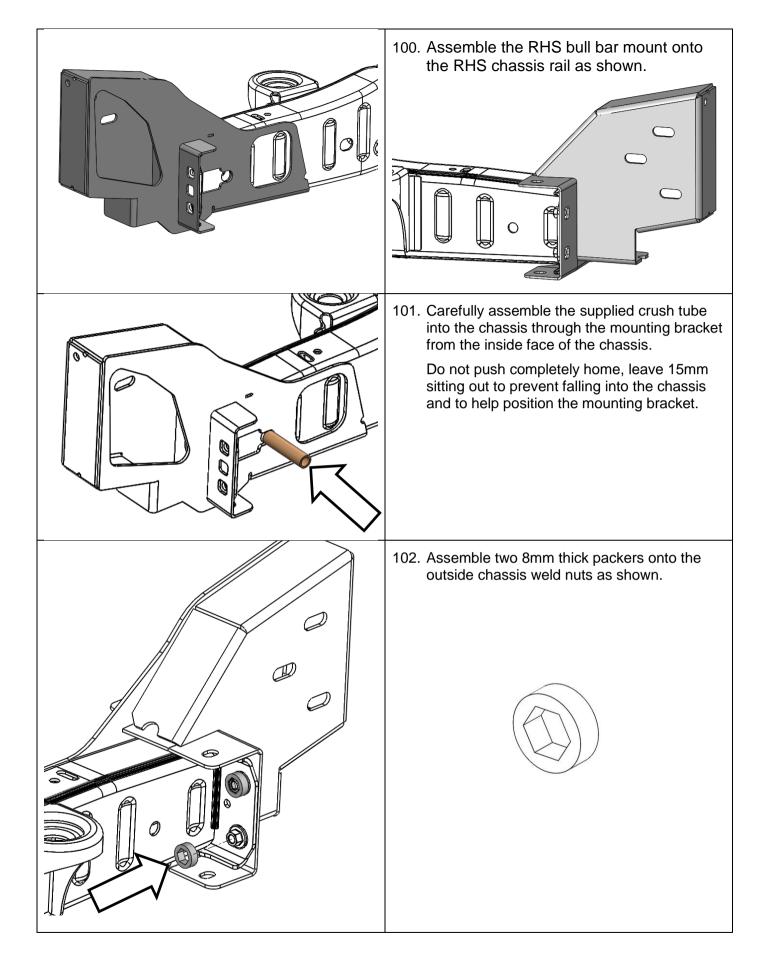
Four scrivets will also need to be removed.

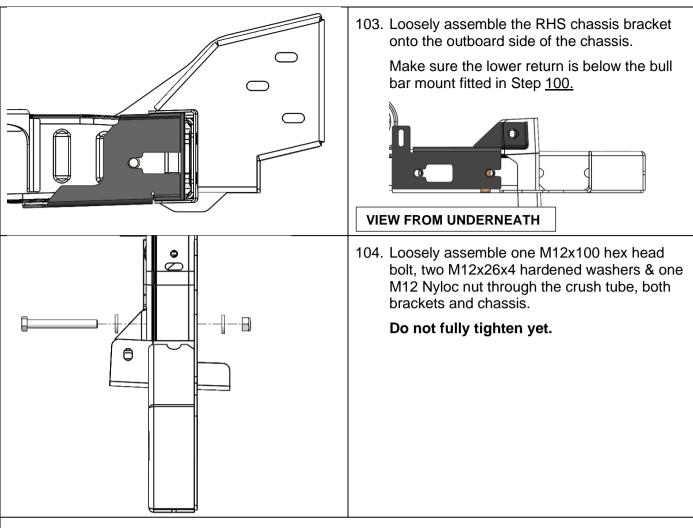




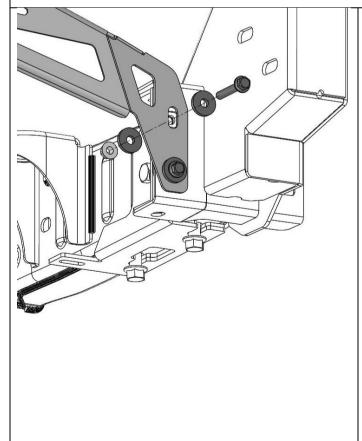
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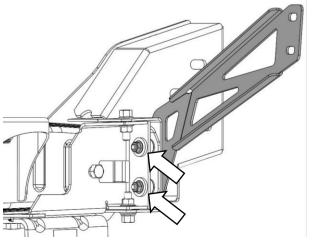


IF FITTING RECOVERY POINTS 2480060 / 2480070 REFER TO FITTING INSTRUCTION 37800142 AT THIS POINT – WITH RECOVERY POINTS FITTED CONTINUE FROM STEP <u>112</u>

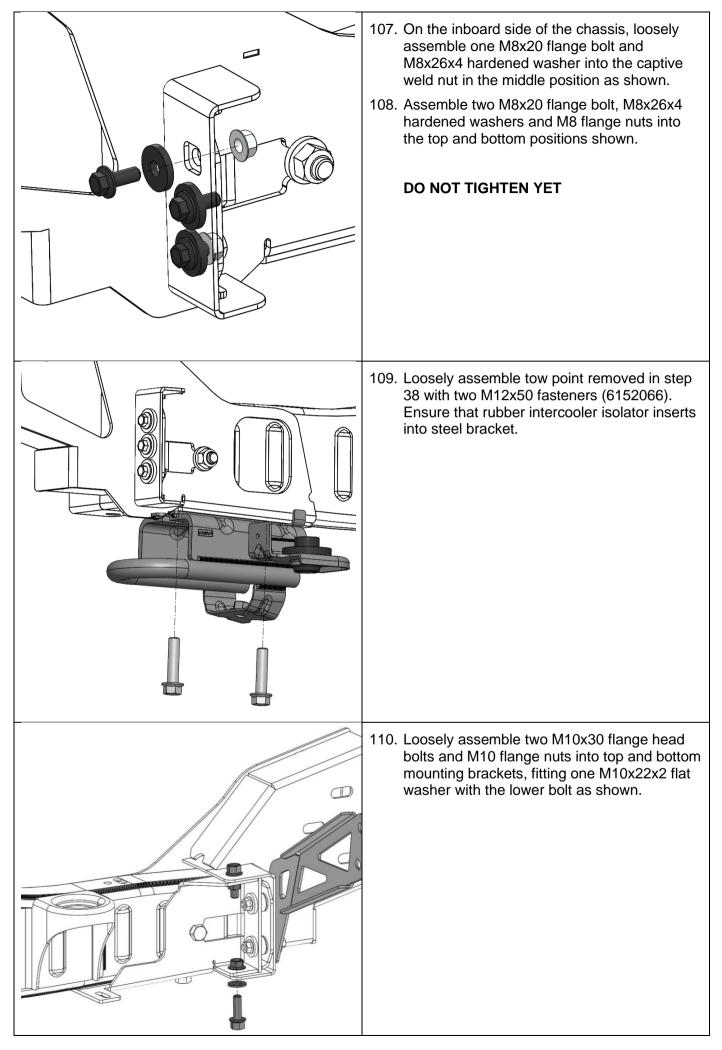


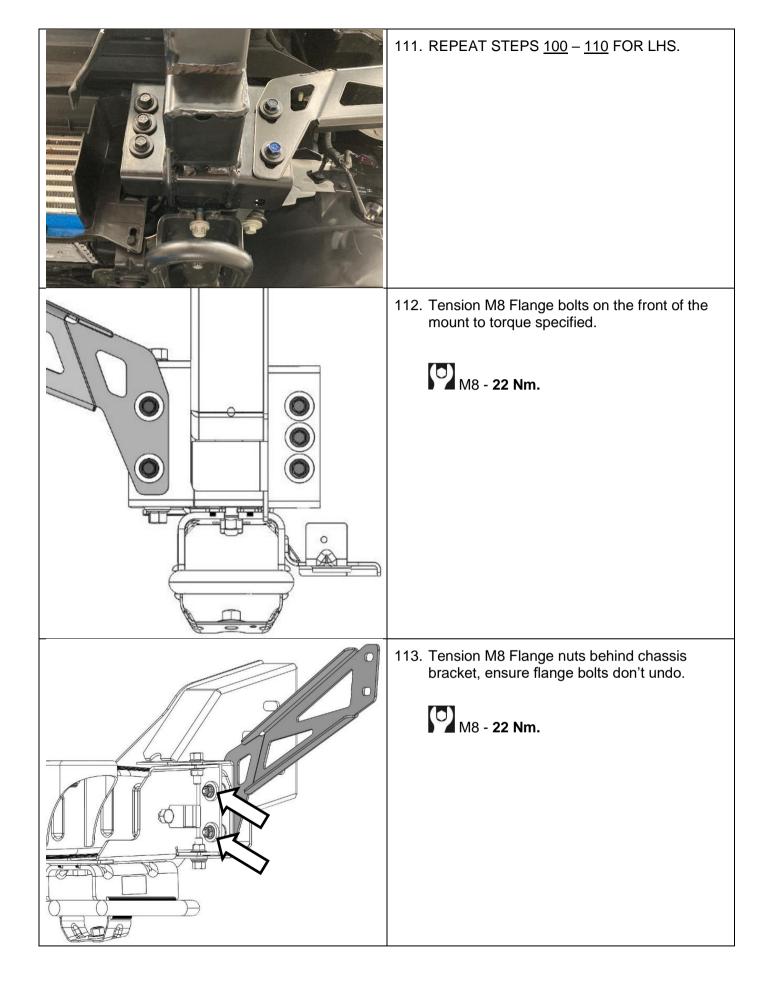
- 105. Loosely assemble two M8x50 flange bolts and M8x26x4 hardened washers into the two captive weld nuts on the outboard side of the chassis as shown, fitting brace 3753346 RHS onto the front of the chassis mount.
- 106. Loosely assembly two M8 Flange nuts and two M8x26x4 hardened washers onto the flange bolts assembled in previous step.

DO NOT TIGHTEN YET.



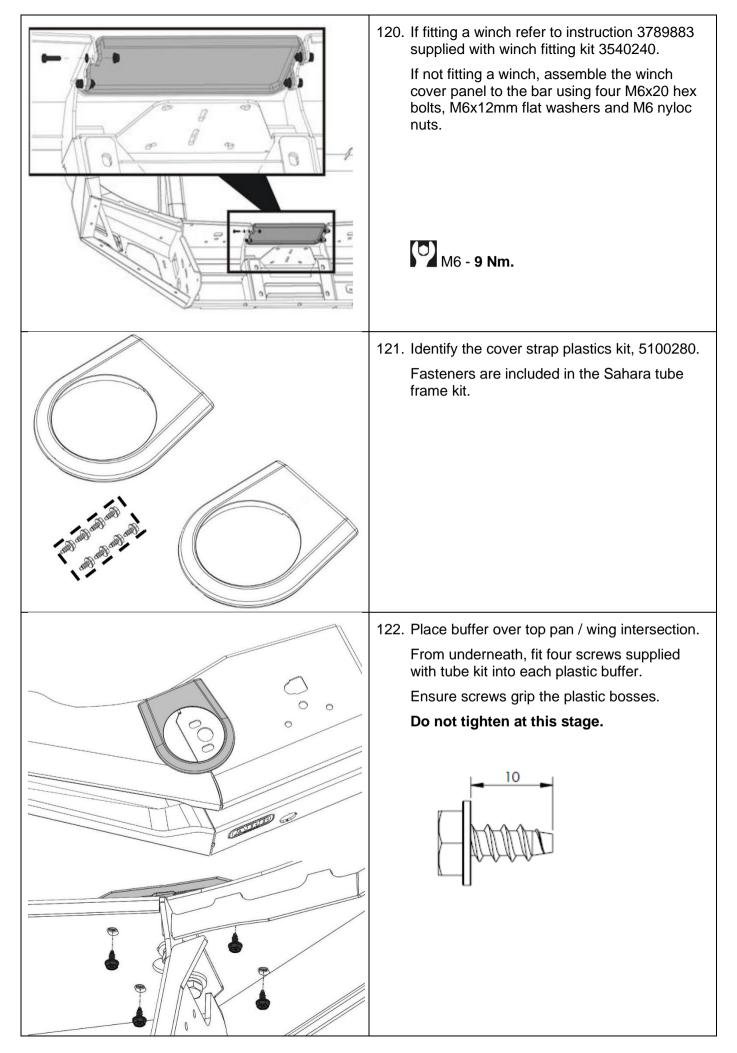
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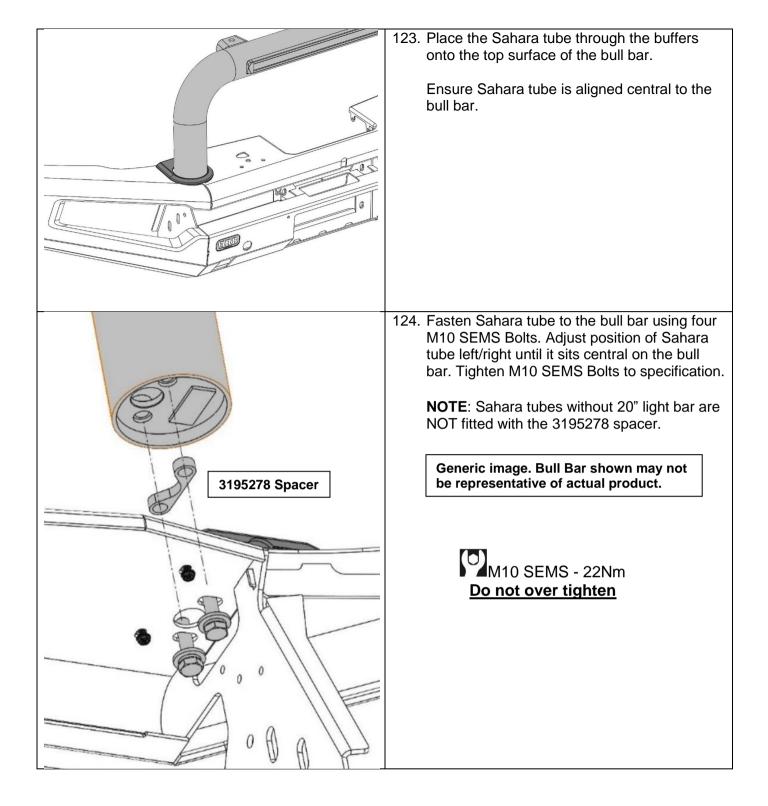


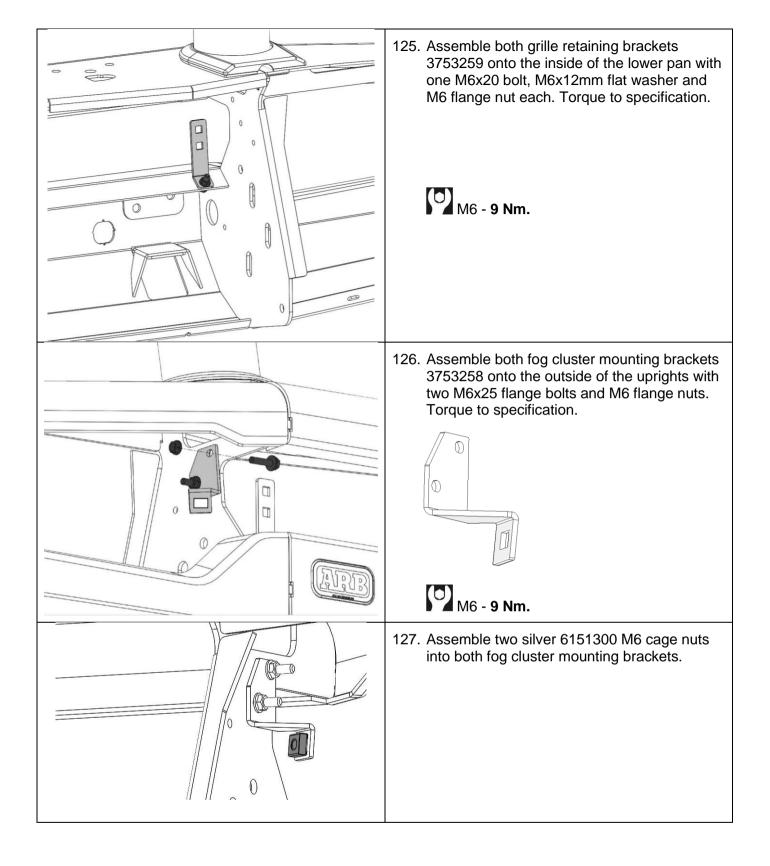
114. Tension M12x100 PC10.9 bolt running through the chassis. M12 PC10.9 - 92 Nm.
115. Tension M12x50 Flange bolts. M12 PC10.9 - 92 Nm.

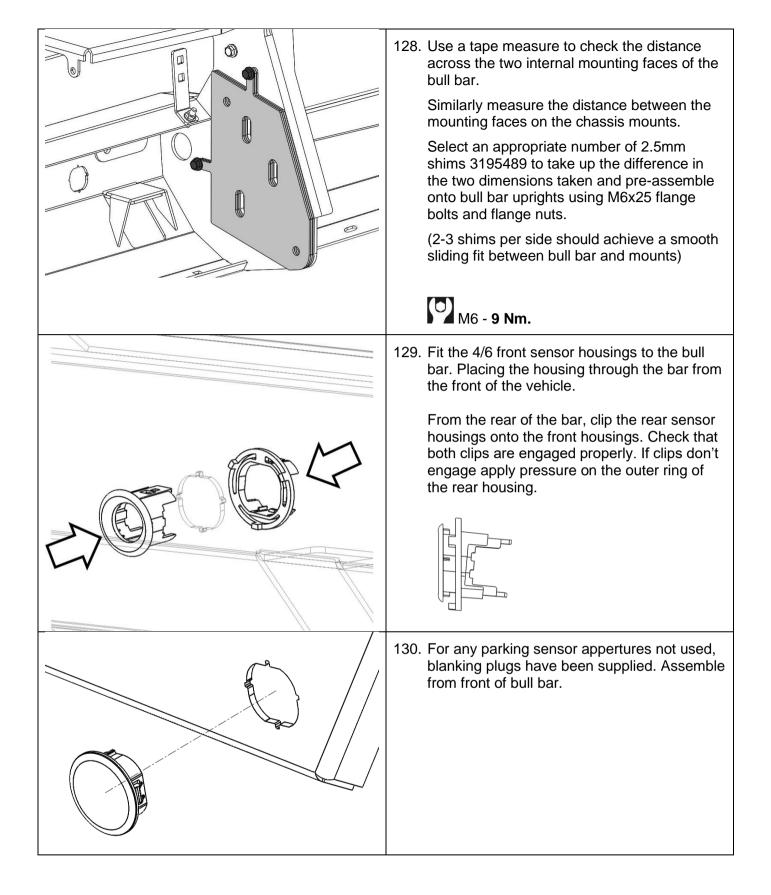
116. Tension M10x30 flange bolts at top and bottom locations. Image: M10 - 44 Nm. Image: M10 - 44 Nm.
 117. Measure, mark and drill a Ø6mm hole in the lower intercooler brackets, 8mm above the original hole. 118. Fasten intercooler shroud to lower bracket using hole drilled in previous step, M6x20 hex bolt, M6x12 flat washer and M6 Nyloc. Do not overtighten to avoid cracking plastic.
119. Assemble six silver 6151300 M6 cage nuts into lower return of bull bar pan. Ensure these are the correct cage nuts with longer legs for 3mm material.

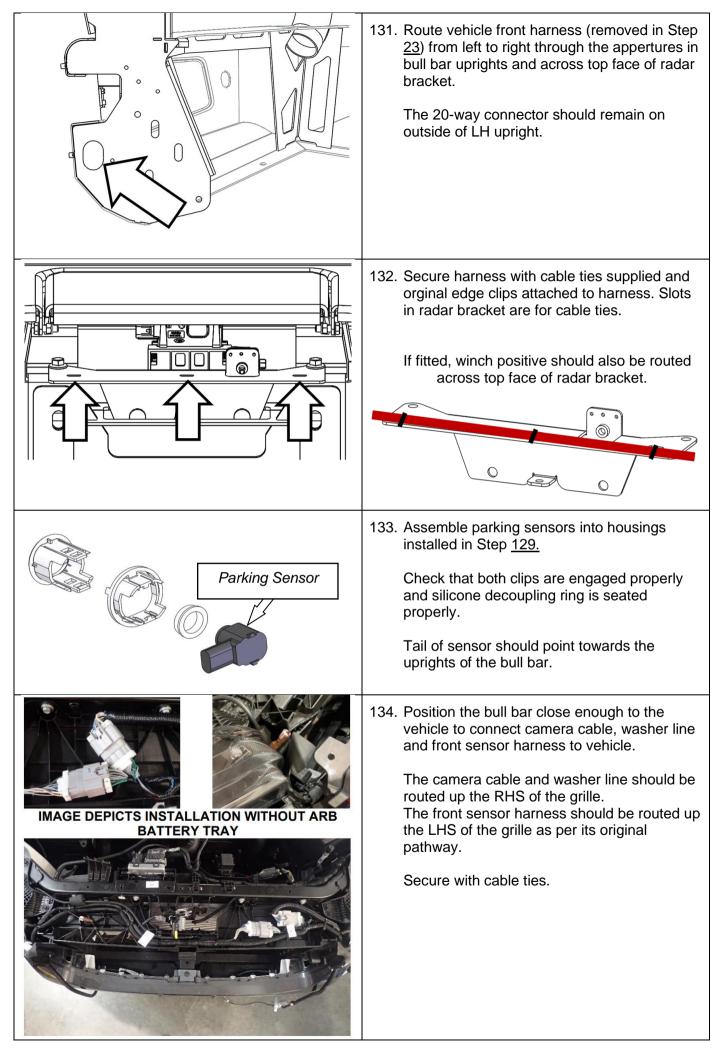


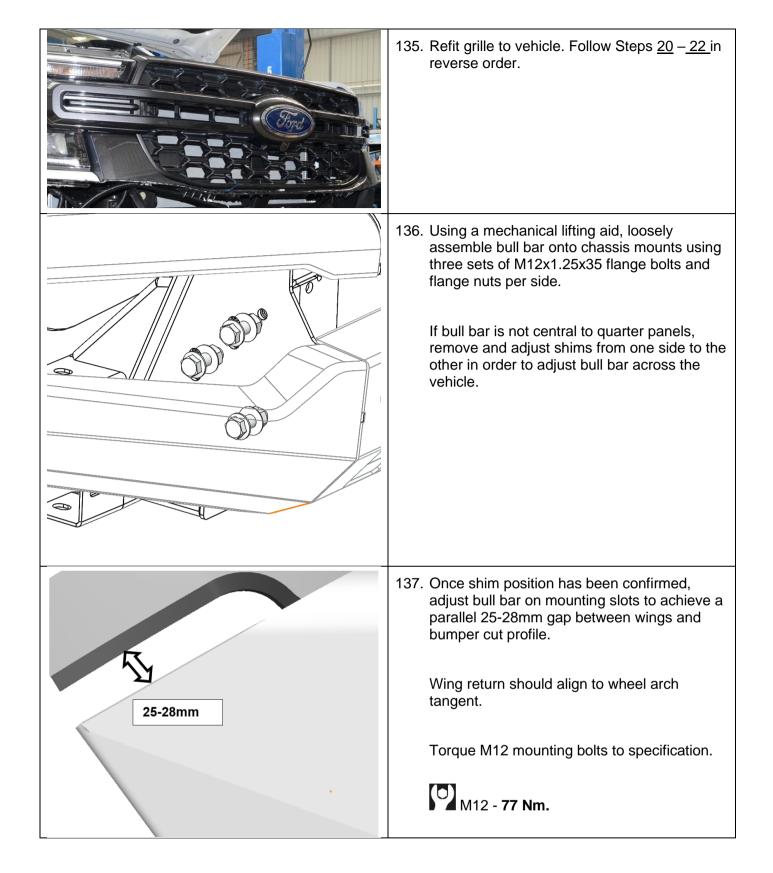
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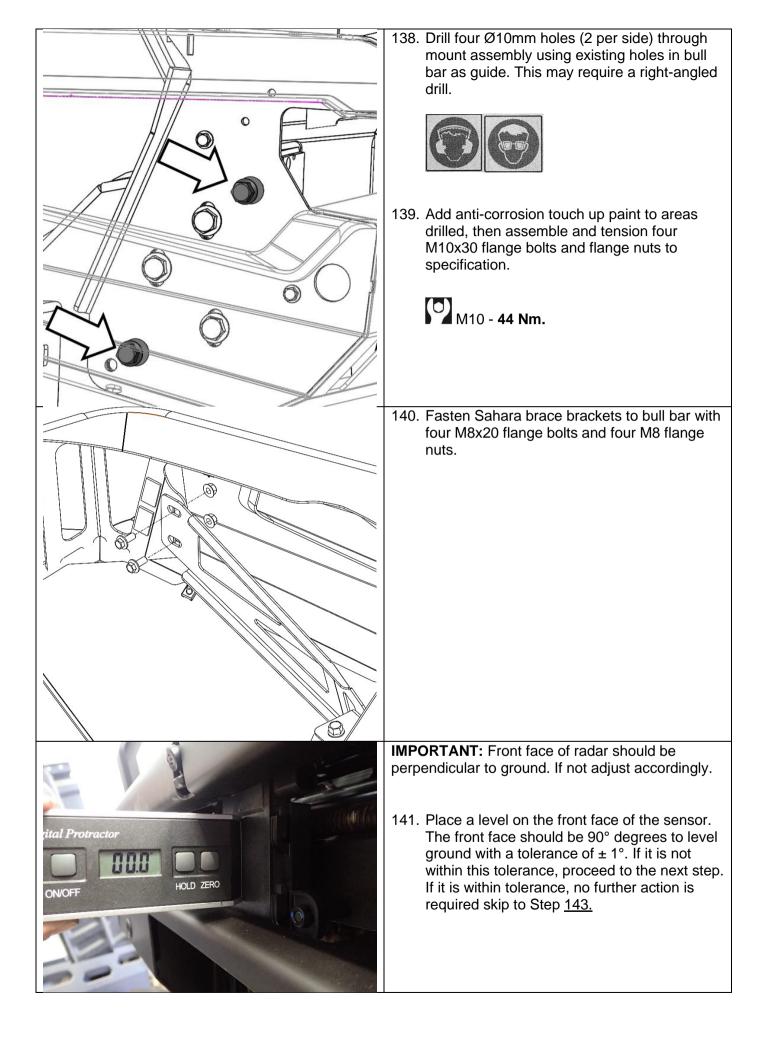


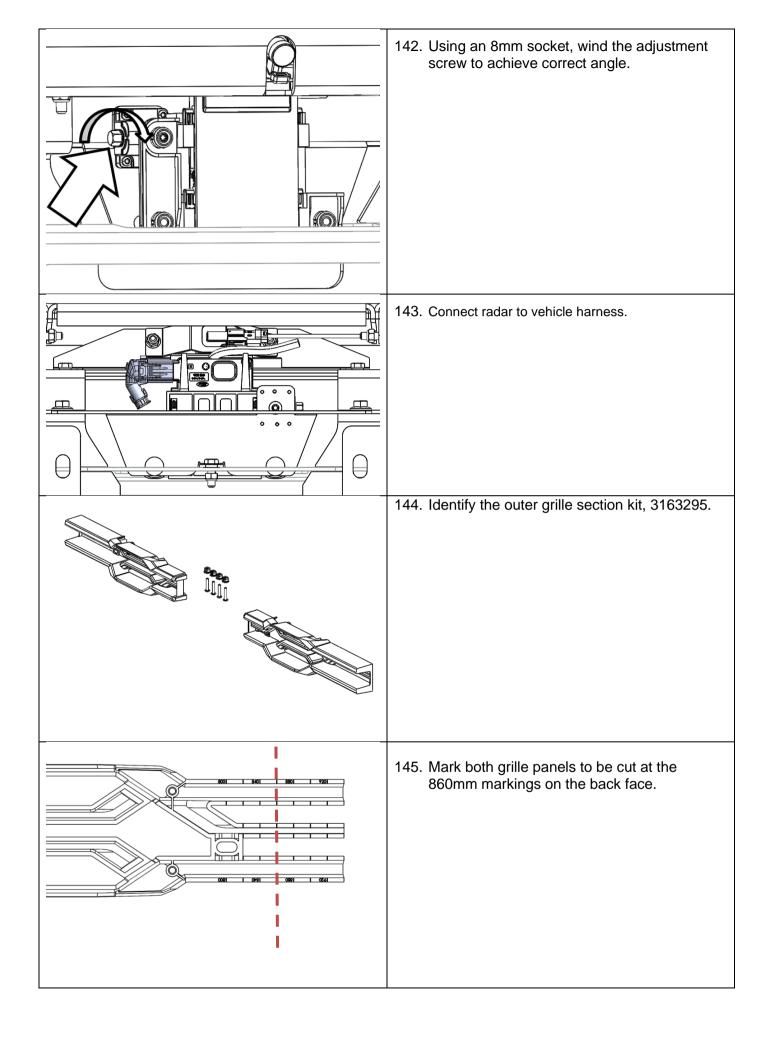


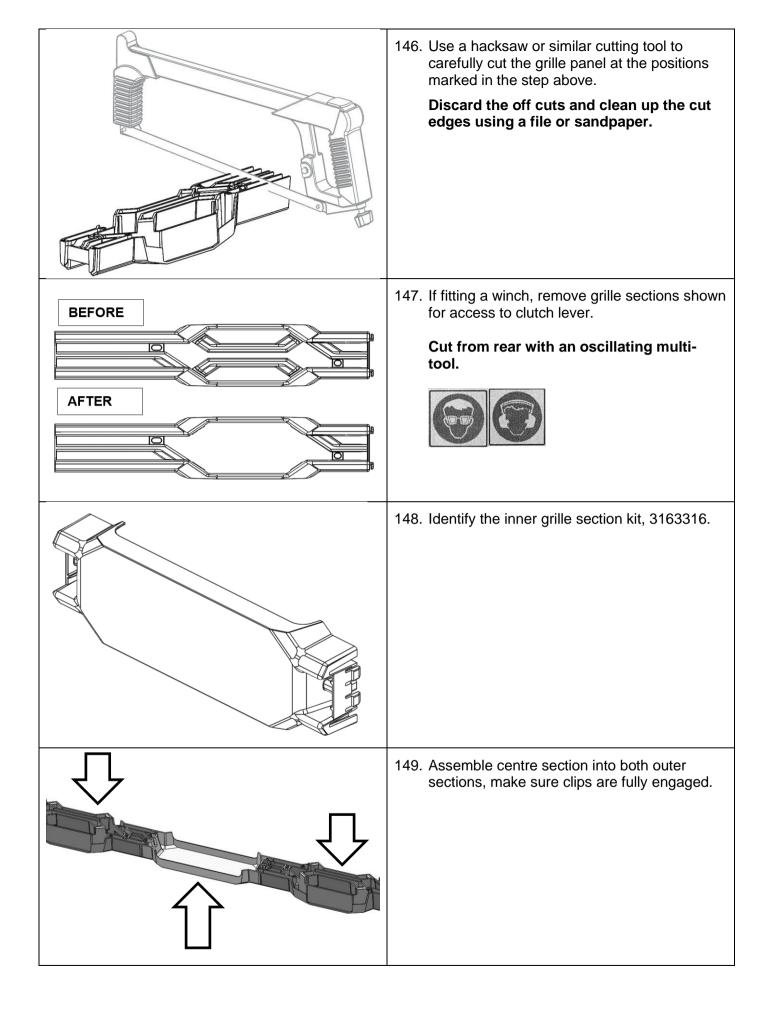


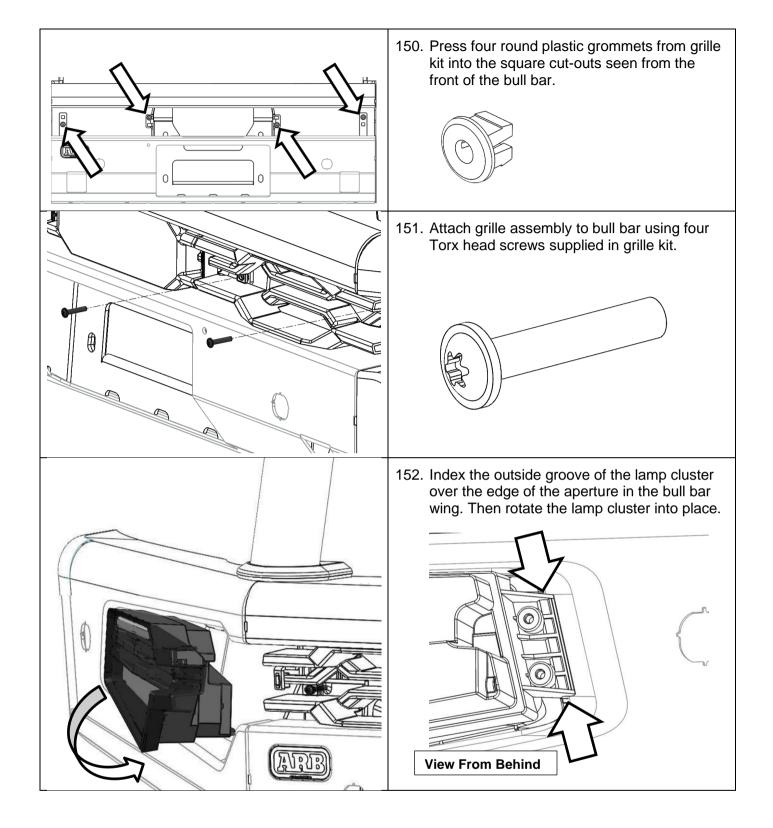


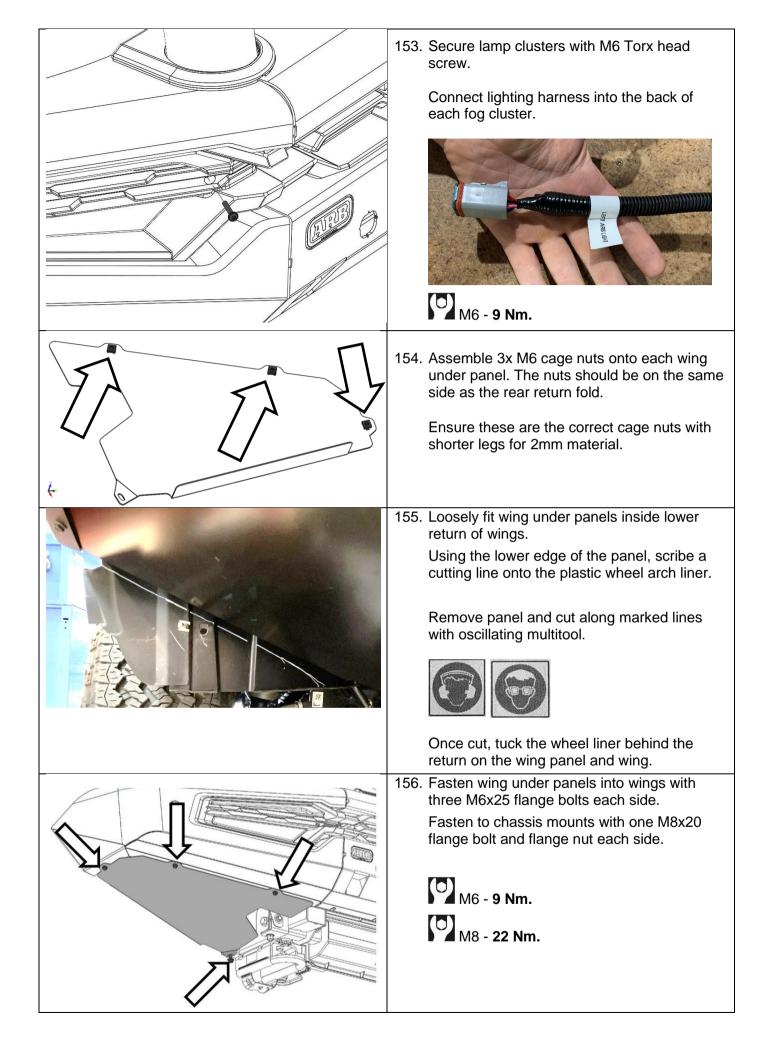


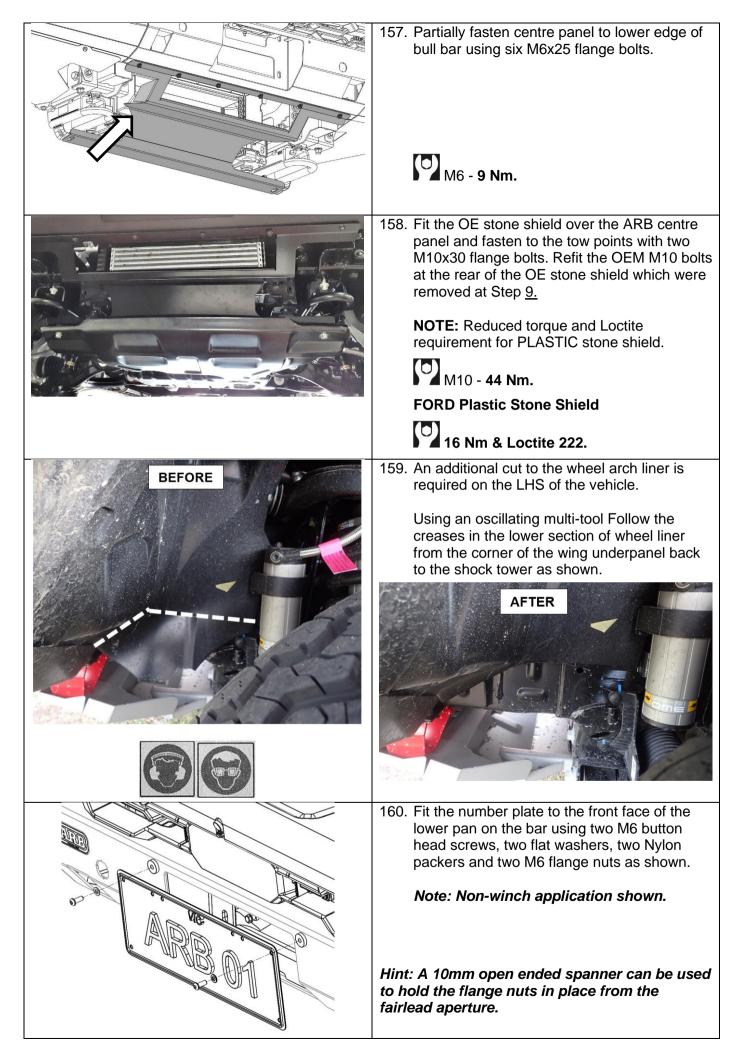












FITTED PRODUCT

NOTICE: ONCE SAHARA 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, parking sensors, camera, washers etc. are functioning correctly.

VEHICLES EQUIPPED WITH FORWARD FACING CAMERA:

- During daytime, drive on a straight road with clear line markings at 12-35kph for around 10 minutes. Avoid steering as this increases the time to calibrate.
- Stop the vehicle and check the 360° camera view has completed stitching:



Put the vehicle in reverse and confirm there is no "RBA Not Available" warning
 If stitching is not completed or "RBA Not Available" warning persists, repeat the drive event.

