

Part Number:	3440520
Product	BT50 STEEL SUMMIT COMBAR 110N
Description:	
Suited to vehicle/s:	2011 MAZDA BT50 ONWARDS
Optional	3500640 - ARB AUX Fog Light Adaptor
Fitting Kits:	3500530 - ARB AUX Fog Light Loom (non-factory fog lamp vehicles)
5	3500680 - Fog Lamp Housing Clear Lens Kit
	3500590 - Fog Light Kit (LH&RH Lights)
	3500720 - SUMMIT BAR WINCH INSTALL KIT
	3500840 - CONTROL BOX BRACKET LARGE (Smittybuilt, Warn
	XP, Magnum control boxes)

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

## Important electrical system information

The 2011 On Mazda BT-50 uses an advanced wiring system allowing new chassis control systems to be used. Due to this, placing large amounts of additional load to the wiring harness may trigger faults in the ECU or cause permanent damage to the wiring harness.

## FITTING REQUIREMENTS

## **REQUIRED TOOLS FOR FITMENT OF PRODUCT:**

BASIC TOOL KIT	ELECTRIC DRILL
JIG SAW WITH BLADE SUITABLE FOR PLASTIC	MATTE BLACK SPRAY PAINT
FILE OR SAND PAPER	LOW TACK MASKING TAPE
TAPE MEASURE	ELECTRICAL TAPE (BLACK)
STEEL RULER	WHITE FELT MARKER
TORQUE WRENCH (9-90Nm)	HACKSAW
CONVOLUTED TUBE (7MM & 12MM)	CLAMP
UTILITY KNIFE	COMPLETE METRIC DRILL SET
LOCTITE 243	MULTI-TOOL WITH BLADE SUITABLE FOR PLASTIC

## 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	44Nm	32lbft
M12	77Nm	57lbft

## PARTS LISTING

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APPLICATION.	PART NO.	QTY	DESCRIPTION
	3759563	1	MOUNT BRACKET ASSEMBLY
	3759574R	1	CHASSIS BRACE RH
	3759574L	1	CHASSIS BRACE LH
	3759575R	1	CHASSIS BRACE RH
	3759575L	1	CHASSIS BRACE LH
	3759576R	1	CHASSIS MOUNT BRACE RH
	3759576L	1	CHASSIS MOUNT BRACE LH
	5848427	4	CHASSIS MOUNT PACKER
	3758956	1	OE STONE SHIELD BRACKET
	4581011	10	WASHER FLAT M12 x 27 x 4
	6151360	10	HEX BOLT M12 x 1.75 x 35 G8.8
FIT MOUNTS TO CHASSIS	6151428	10	FLANGE NUT M12
FIT MOUNTS TO CHASSIS	4581050	10	WASHER SPRING M12
	6151357	10	SEMS BOLT ASSY M10 X 30
	6151727	2	HEX BOLT M16 x 2.0 x 35 PC8.8 TZP
	6151728	2	FLANGE NUT M16
	6151456	2	BOLT M10 x 1.5 x 45
	4581083	2	WASHER FLAT M10 x 21 x 2
	6151321	8	FLANGE NUT M10
	4581048	2	SPRING WASHER M10
	6151234	3	HEX BOLT M8 x 25 BLACK
	4581047	3	WASHER SPRING M8 BLACK
	6151132	3	FLANGE NUT M8
	4581307	3	WASHER FLAT M8 BLACK
	3500880	1	GRILLE SPLIT PAN KIT
	5100200	1	BUFF KIT 2PCE FRONT SECTION KIT
	5100210	1	BUFF KIT 2PCE REAR UPRIGHT BAR KIT
FIT LIGHTS AND MOULDINGS	6821287	1	LAMP LED IND CLEARANCE KIT
	3163082	1	SURROUND ARB FOGLIGHT KIT
	6821116	4	GROMMET NYLON SNAP IN TYPE
	5848428	4	SHIM OVER RIDER 1.6MM

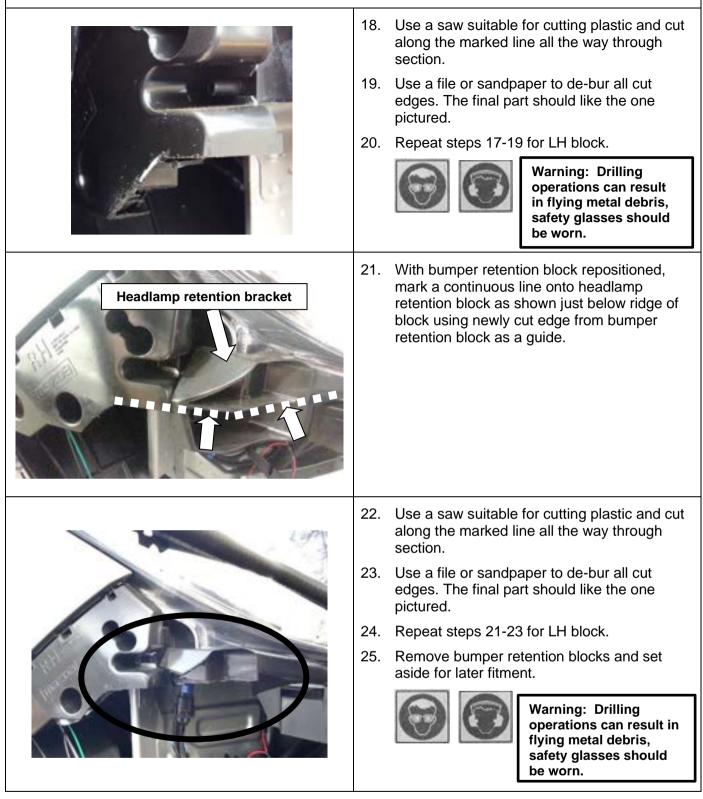
PARTS LISTING				
APPLICATION.	PART NO.	QTY	DESCRIPTION	
	3194293	2	CAGE NUT PLATE	
	6151306	6	CAGE NUT M12	
	6151360	4	HEX BOLT M12 x 1.75 x 35 G8.8	
	4581050	6	WASHER SPRING M12	
BAR TO VEHICLE	6151168	2	BOLT M12 x 1.75 x 80	
BAR TO VEHICLE	4581007	6	WASHER FLAT 1/2" x 1.1/2" x 4mm	
	6151357	4	SEMS BOLT ASSY M10 X 30	
	4584375	2	SPACER 15mm LONG	
	4584376	2	SPACER 35mm LONG	
	6151321	4	FLANGE NUT M10	
	6522838	1	STONE SHIELD CENTRE	
	6523069R	1	UNDER WING PANEL RH	
	6523069L	1	UNDER WING PANEL LH	
	3758956	1	BRACKET STONE SHIELD CENTRE	
	3758957	2	BRACKET WING PANEL	
	6151301	7	CAGE NUT M8	
	6151234	11	HEX BOLT M8 x 25 BLACK	
UNDER PANELS TO BAR	4581047	11	WASHER SPRING M8 BLACK	
SIDERTAREES TO DAR	4581307	11	WASHER FLAT M8 BLACK	
	6151357	2	SEMS BOLT ASSY M10 X 30	
	6151321	2	NUT FLANGE M10 x 1.5 ZP	
	6151300	10	CAGE NUT M6	
	6151213	10	BOLT M6 x 20 BLACK	
	4581082	10	WASHER FLAT M6 BLACK	
	4581287	10	SPRING WASHER M6 BLACK	
	6151132	4	FLANGE NUT M8	
	3759488	1	BRACKET REG PLATE FIXED LARGE RAD	
	6151213	3	BOLT M6x1.0x20 8.8 BZ	
	4581287	3	WASHER SPRING M6 x 2.5 x 1.6 BLK ZN	
	4584295	3	WASHER FLAT M6 x 12 x 1.3 BLK ZN	
(NO WINCH FITTED)	6151128	3	NUT FLANGE M6 x 1.0 ZP	
	6821189	2	GROMMET RND FC 1500 080 090	
	6151384	2	SELF TAPPING SCREWS 10G x 5/8	
	6522985	1	PRESS FORM WINCH COVER PANEL	
	6151213	4	BOLT M6x1.0x20 8.8 BZ	
WINCH COVER PANEL FITMENT	4581287	4	WASHER SPRING M6 x 2.5 x 1.6 BLK ZN	
(NO WINCH FITTED)	4584295	4	WASHER FLAT M6 X 12 X 1.3 BLK ZN	
	6151128	4	NUT FLANGE M6 x 1.0 ZP	
	6191025	2	PINCH WELD 480MM	
	3789489	- 1	TEMPLATE BT50 COMBAR 150N	
MISCELLANEOUS	180302	10	CABLE TIE 4.8 x 180mm BLACK	
	3758973R	1	BRACKET GRILLE BT50 RH	
	3758973L	. 1	BRACKET GRILLE BT50 LH	

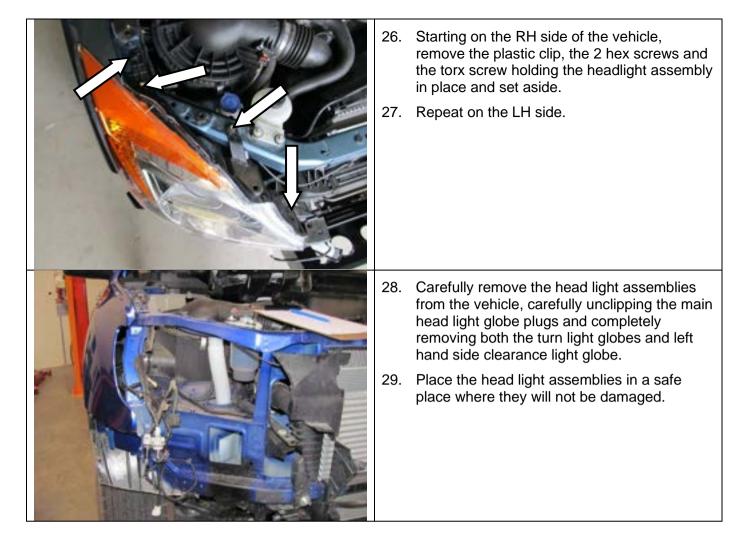
FITTING PR	OCEDURE
	<ol> <li>Read the instructions thoroughly before starting.</li> <li>Open the bonnet and remove the plastic cover above the grille.</li> </ol>
	<ol> <li>Remove the plastic clips from the top / rear corners of the grille. Place clips in a safe place.</li> <li>Note: Take note where fasteners are removed from as some have to be replaced later in the fitment.</li> </ol>
	4. Remove the grille by carefully rolling forward and releasing the clips at the bottom.
	5. Remove all the bumper fasteners along the inside edge of the wheel arches.
	<ol> <li>Remove all the fasteners securing the bottom of the bumper to the vehicle.</li> </ol>

FITTING PF	ROC	EDURE
	7.	Undo and remove the screws and plastic clips behind the grille near the lower inner edge of the head lights.
	8.	Starting on the RH side of the vehicle, carefully pull the rear most corner away from the vehicle un-clipping the bumper. With the assistance of another person remove the bumper from the vehicle and place in a safe place where it will not be damaged. Disconnect the sensor attached to the bumper and allow it to hang loose. If fog lights are fitted they will need to be disconnected.
	9.	Remove the plastic panel attached to the front cross beam by removing the plastic clips. Discard the panel.

FITTING F	PRO	CEDURE
	10.	Use a screw driver to push the 2 plastic clips inward from the front cross beam. Do not remove the clips as they will be used later.
	11.	Carefully unclip the sensor from the side air deflector above the LH chassis rail. Allow the sensor to hang on it's wiring.
	12.	Remove the front cross beam and discard
	13.	Remove the factory under panel and place in a safe place. Do not completely remove the rear bolts. Leave loose.

FITTING F	ROC	EDURE
	(	Remove and set aside the 2 air deflectors on either side of the intercooler. Retain the fasteners.
	ł	Remove the RH and LH bumper retention blocks from either side of the vehicle and place in a safe place.
		Remove and discard the inner guard support brackets from both sides of the vehicle.
30mm 30mm 70mm	ı t	Starting with the right hand side bumper retention block, mark section as shown from the bottom edge of the forward notch. (The line should be parallel with bottom edge).

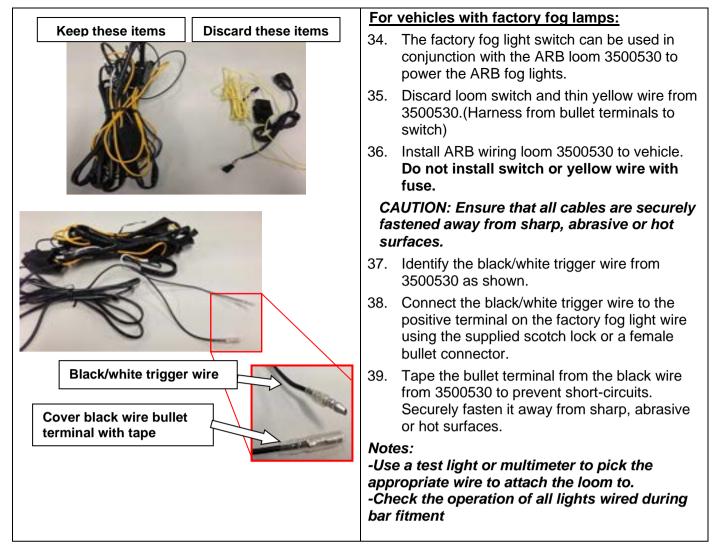




FITTING PROCEDURE					
Refer to table below for Wire Colour designations					
	DESCRIPTION WIRE COLOUR				
		Main battery positive	Red		
		Main battery negative	Black		
	(	Clearance Light signal wire	Blue / Black		
	Le	ft hand turn light signal wire	Green / Black		
	Rig	ht hand turn light signal wire	Yellow / Black		
Function Ground Indicator	LED Wire Black Green	/ire30. Following fitting instructions 3789197 supplied in kit 6821287; install the LED combination lamp looms (also supplied in same kit).reenNotes:			
Clearance	Red				
loom to. -Cover each joint with either insulation tape or heat shrink tube.					
For vehicles without factory fog lamps and where optional ARB fog lamps are to be fitted:					
31. Install optional ARB wiring loom 3500530 and switch into vehicle. Refer to instructions supplied with loom. Place switch inside cabin in a suitable position.					
32. Connect optional ARB fog lights (# 3500590) to wiring loom.					
33 Procee	33 Procood to stop 40				

33. Proceed to step 40.

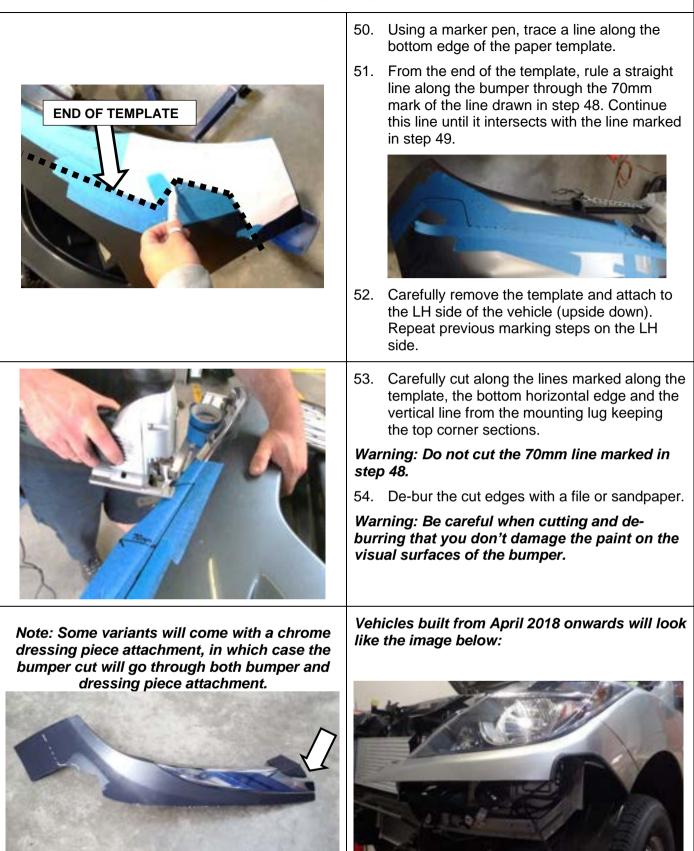
CAUTION: Ensure that all cables are securely fastened away from sharp, abrasive or hot surfaces.



## Note: All wiring should be checked against the wiring diagram attached at the end of these instructions.

- 40. Replace the head light assemblies by reversing the removal step 28.
- 41. Connect the positive and negative battery wires to relevant terminals on the vehicles battery.
- 42. Re-fit the bumper retention blocks modified earlier.

FITTING PROCEDURE		
	43. Using scissors carefully cut out the supplied paper template.	
	<ul><li>44. Sit the bumper bar facing upwards on a stand.</li><li>45. Place masking tape over the bumper as shown. This will help protect the paint during cutting.</li></ul>	
	46. Place the paper template on the RH side of the bumper bar as shown and attach with masking tape.	
	47. On the RH side of the bumper bar, locate the point on the top edge at the intersection of the grille and the head light.	
	48. From that point, mark a line 70mm down towards the bottom of the bumper.	
	(THIS IS NOT A CUTTING LINE, IT IS A GUIDE ONLY)	
	49. Mark a vertical line down from the inside edge of the mounting lug as shown.	
	(THIS LINE IS FOR CUTTING)	



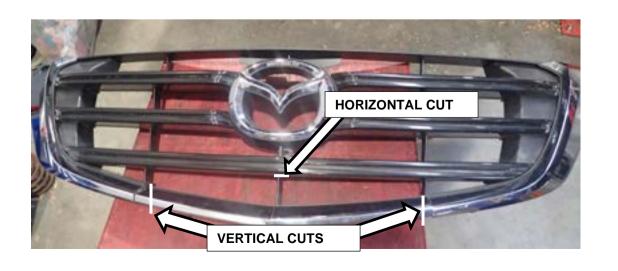
55. Remove the RH and LH air deflectors from either side of the vehicle by un-doing the bolts at the top and bottom.
<ul><li>56. On the RH side air deflector mark a line as shown from the bottom of the lower mount boss to the bottom of the front mid mount boss.</li><li>57. Repeat on the LH side.</li></ul>
<ul> <li>58. Carefully cut along the marked lines keeping the top corner sections.</li> <li>59. De-bur the cut edges with a file or sandpaper.</li> <li>60. Repeat on the LH side</li> <li>61. Re-fit the air deflectors to the vehicle.</li> <li>Warning: Drilling operations can result in flying metal debris, safety glasses should be worn.</li> </ul>
<ul> <li>62. Refit the 2 bumper sections to the vehicle by reversing the removal steps. On the inboard ends attach the bumper sections to the vehicle using the plastic plugs.</li> <li>63. Re-fit screws removed during bumper removal to attach bumper section to blocks.</li> <li>64. Attach the grille support brackets to the vehicle as shown using the screws removed in step 7. Leave the screws loose at this stage.</li> </ul>

For Pre-2015 BT-50 go to steps 65-71, For '15 On BT-50 go to steps 72-76	
For April 18 On BT50 go to step 77	<ul> <li>Warning: To prevent incorrect trimming of the grille it is important that you read and understand the following steps before proceeding.</li> <li>65. Place the grille facing upwards on a flat surface</li> </ul>
	<ul> <li>66. On the RH side (as it faces you), mark a line as shown, in line with the grille web.</li> <li>67. Repeat both sides.</li> <li>68. Using a hacksaw carefully cut along the 2 marked lines ensuring that you finish on the bottom side of the grille webs.</li> </ul>
	69. Using a hacksaw blade, cut along the top of the vertical posts where they intersect with the lower most grille webs. Continue until you reach both cuts made in the previous step.
	<ul><li>70. Discard the bottom section.</li><li>71. Using a file or sand paper, remove any sharp edges.</li></ul>

130mm	<ul><li>2015 Vehicles</li><li>72. Cut section of bumper as shown and use a file or sand paper to remove sharp edges.</li><li>73. Mirror cut onto opposite side.</li></ul>
	74. Cut three tabs connecting lower lip of grille as shown and use a file or sand paper to remove sharp edges.
15mm 30mm	<ul> <li>75. Mark and drill 8mm hole in grille as shown 30mm from cut edge and 15mm forward of back edge</li> <li>76. Repeat for LH side.</li> </ul>
	Warning: Drilling operations can result in flying metal debris, safety glasses should be worn.

Vehicles built April 2018 onwards:

- 77. Using a hacksaw blade, carefully cut vertical lines on the inboard side of the lowest uprights in the grille, as shown below. Also remove the middle upright with a horizontal cut.
  - \*\* Warning: BE CAREFUL TO AVOID SCREWS ON INSIDE OF GRILLE\*\*



GRILLE SHOULD APPEAR AS SHOWN BELOW	
	<ul> <li>78. Refit the grille to the vehicle by reversing the removal steps above.</li> <li>79. Attach the grille to the 2 grille brackets using the cable ties included in the kit.</li> <li>80. Tighten the screws holding the brackets and bumper sections.</li> </ul>
	81. Fit pinch weld to both sections of the trimmed bumper.
	82. Fit the inner brace with the packer to the chassis rail end. Ensure that the front edge is pushed forward to the chassis flange. The brace may need to be tapped to ensure a flush fitment to the chassis is achieved.

83. Fit the M16 x 35 flange bolt through the front access cut out of the front flange of the chassis.
84. Loosely position the outer bracket brace with the packer to the chassis rail. Apply LOCTITE 243 then fit the M16 flange nut to hold it in place. Ensure that the front edge is pushed forward to the chassis flange.
<ul> <li>85. Fit 4 x M12 x 35 bolts, 4 x M12 flat washers, 4 x M12 Flange nuts.</li> <li>M12 Flange nuts.</li> <li>M12 - 77 Nm.</li> <li>NOTE: Do not fit the M12 spring washers these will be fitted later on.</li> </ul>
<ul> <li>86. Using a spanner to hold the M16 flange bolt, torque the M16 flange nut.</li> <li>M16 - 90 Nm.</li> <li>NOTE: Take care to torque as per requirement. DO NOT torque outside the specs provided.</li> </ul>
87. Using a large G-clamp, clamp the top rear corner of the outer and inner brace together. This will make the alignment of the top flange easier for fitment of the brace.

88. Fit the M10 x 1.5 x 45 bolt, M10 spring washer and M10 flat washer.
89. Fit the 2 x M10 x 30 SEMS bolts and M10 flange nuts to the bottom of the brackets to clamp them together.
90. Fit the M10 x 30 SEMS bolt and M10 flange nut to the brace and outer bracket.
91. Fit the 15mm wide spacer between the brace and the outer bracket and then fit the M10 flange nut
92. Remove the 4 x M12 x 35 bolts, 4 x M12 flat washers and 4 x M12 flange nuts fitted in step 81 and set aside for later.
93. <b>NOTE:</b> Keep all M10 fasteners loose and only finger tight at this point.
Repeat steps 82-93 for the LH side.
94. Attach the mount bracket to the chassis end plates using 4 x M10 x 30 SEMS bolts into the captive nuts. <i>Leave loose at this stage.</i>

FITTING PROCEDURE	
	<ul> <li>95. Attach the mount bracket to the chassis using 3 x M12 x35 bolts, 3 x M12 spring washers, 3 x M12 flat washers and 3 x M12 Flange nuts.</li> <li>Repeat on the LH side.</li> <li>M12 - 77 Nm.</li> </ul>
	<ul> <li>96. Place 2 x M12 x 35 bolts, 2 x M12 spring washers, 2 x M12 flat washers and 2 x M12 Flange nuts into the 2 holes on the inboard side of each chassis face plate. <i>Leave loose at this stage.</i></li> <li>97. Repeat on the LH side.</li> </ul>
	<ul> <li>98. Fit 7 x M8 cage nuts into the mount bracket from the inside.</li> <li>Note: A flat blade screw driver can be used to aid placement of the cage nuts.</li> </ul>

FITTING PROCEDURE	
	<ul> <li>99. Attach the OE stone shield bracket to the chassis mount using 3 x M8 x 25 black bolts, 3 x M8 black flat washers, 3 x M8 black spring washers and 3 x M8 flange nuts.</li> <li>Leave loose at this stage.</li> </ul>
	<ul> <li>100. Re fit the OE stone shield to the bracket fitted in step 96 using 2 x M10 x 30 SEMS bolts and 2 x M10 flange nuts.</li> <li>M10 - 44 Nm.</li> </ul>
	101. Using the original plastic clips re-fit the factory air deflector to the 2 holes in the mount bracket.
	<ul> <li>102. Using the pegs on the sensor removed in step 8 as a guide, Drill 2 Ø5.5mm holes in the LH air deflector so that the sensor can be fitted approximately 40mm forward of the rear edge of the air deflector as shown.</li> <li>103. Push the pegs into the drilled holes, attaching the sensor.</li> </ul>

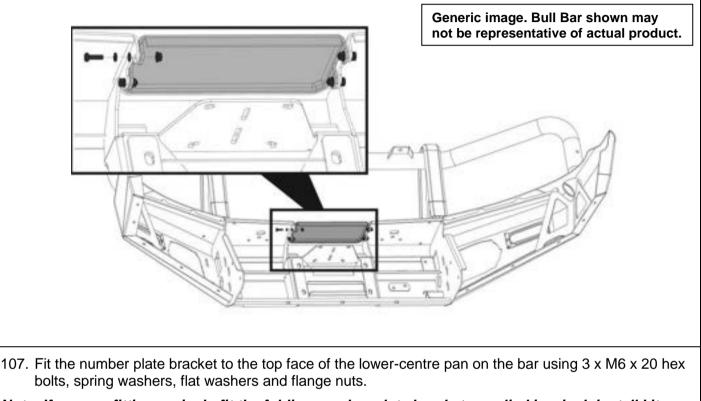


104. Fit 3 x M12 cage nuts to each of the cage nut plates as shown and set aside.

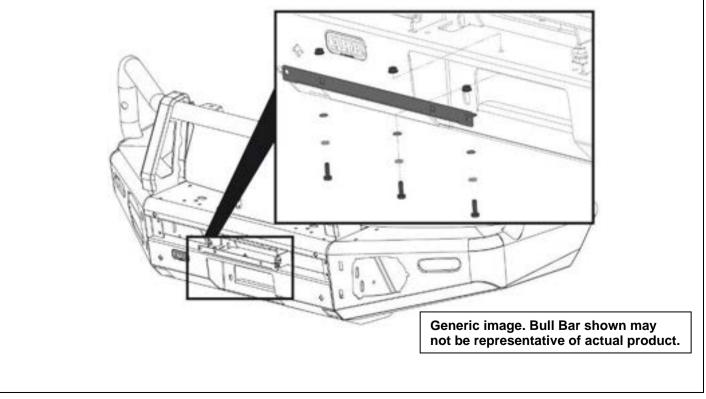
Note: If fitting a winch proceed from here using fitting instructions 3789337 supplied with 3500720 winch install kit. Once the winch is fitted please continue to step 108. If no winch is being fitted continue from here.

- 105. Slide the winch cover panel from the bottom up until it is level with the top face of the bar.
- 106. Fit the winch cover panel to the bar using 4 x M6 x 20 hex bolts, spring washers, flat washers and flange nuts.

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



Note: If you are fitting a winch, fit the folding number plate bracket supplied in winch install kit "3500720 WINCH INSTALL KIT" – See fitting instructions 3789337



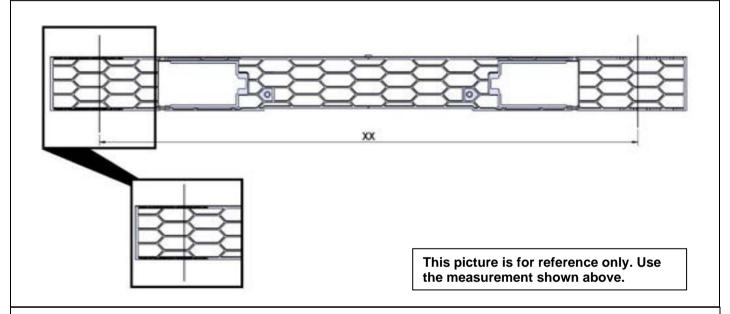
Note: The following steps show the fitment of the plastic moulded parts. The mouldings are supplied in kits along with all fasteners required for fitment. It is important that the fasteners supplied with each kit are only used for the mouldings from the same kit. The kits included in this bar kit are as follows:

108. Layout the contents of each of the following kits ensuring the contents are kept separate from each other.

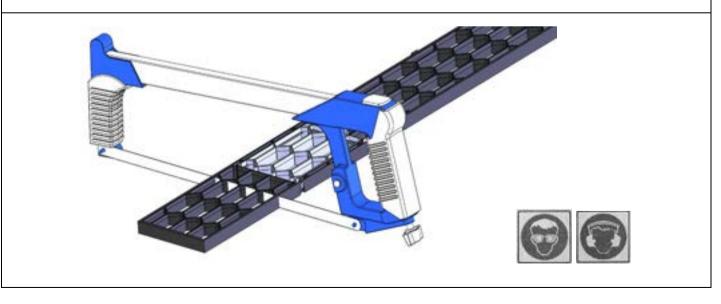
Kit No.	Description
5100200	<b>BUFF KIT 2PCE FRONT SECTION</b>
5100210	<b>BUFF KIT 2PCE REAR UPRIGHT BAR</b>
3500880	SPLIT PAN MESH KIT
3163082	FOG SURROUND KIT

109. Mark the grille panel to be cut at the 810mm marks at each end on the back face.

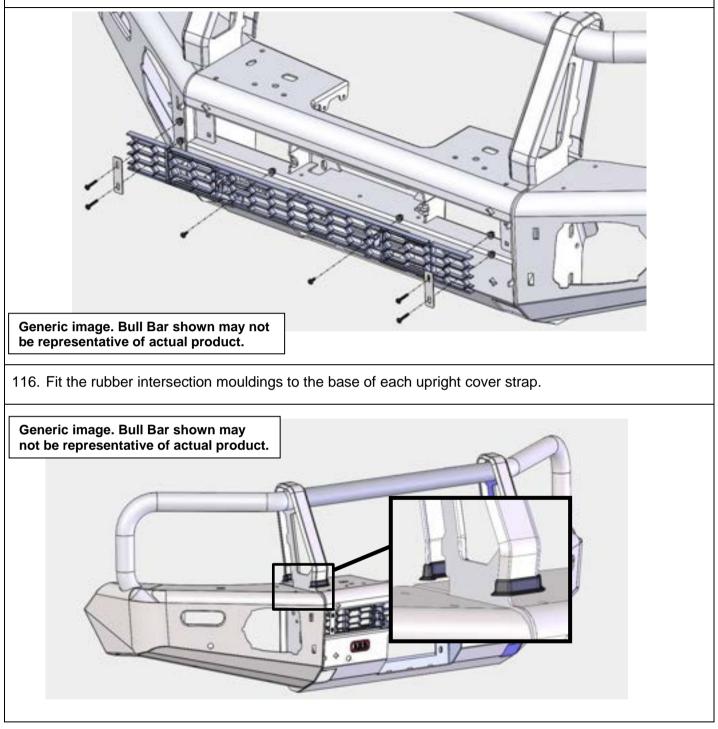
### Note: When marked, double check the measurement with a measuring tool.

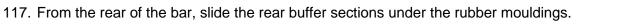


- 110. Use a hacksaw or similar cutting tool to carefully cut the grille panel at the positions marked in the step above.
- 111. Discard the off cuts and clean up the cut edges using a file or sandpaper.



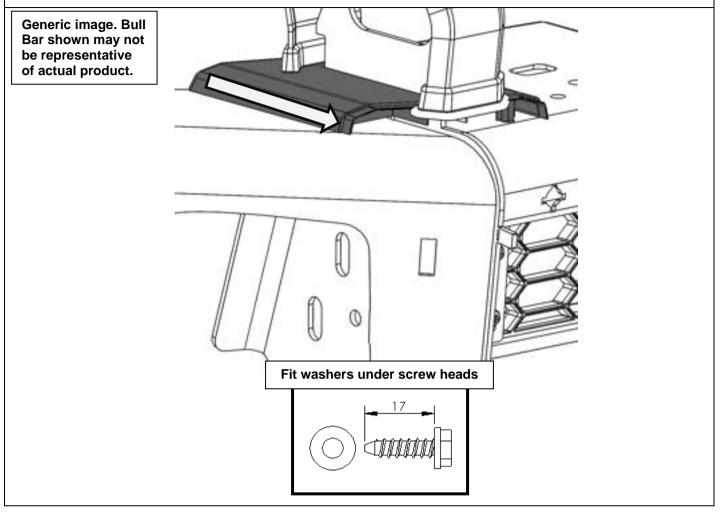
- 112. Insert the 6 x plastic grommets into the 6 square holes in the front face of the bar.
- 113. Insert the grille into the bar so that the hatches open outward (facing the front of the bar).
- 114. Attach the grille to the centre of the bar using the short screws into the grommets fitted above.
- 115. Attach the ends of the grille to the bar using the longer screws, through the clamp plates into the remaining grommets.

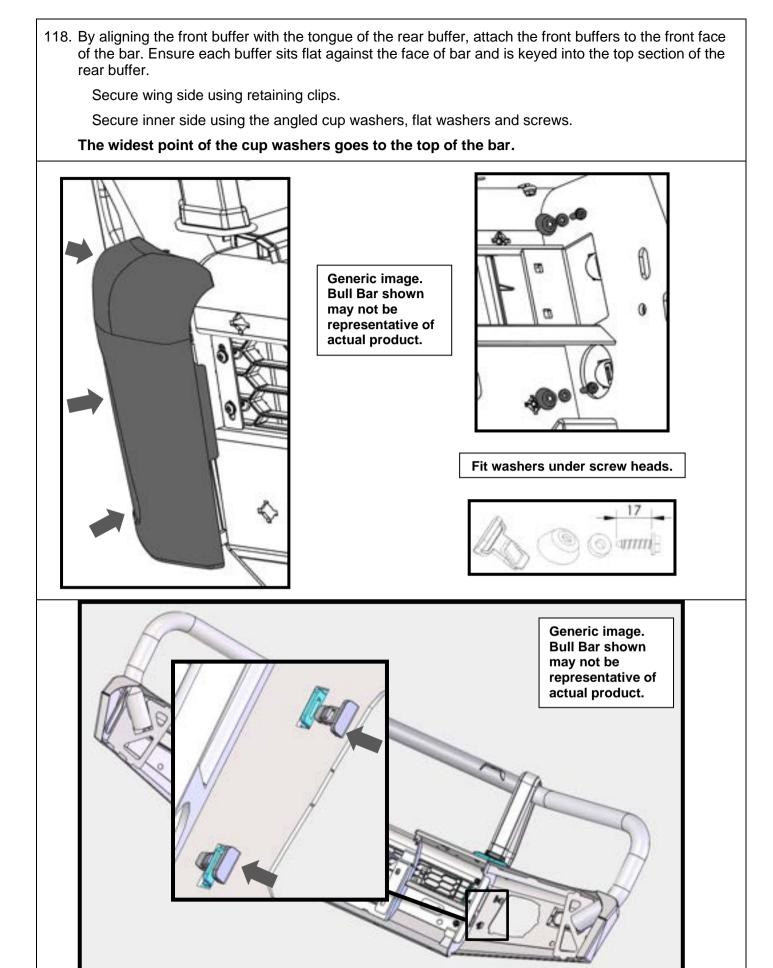


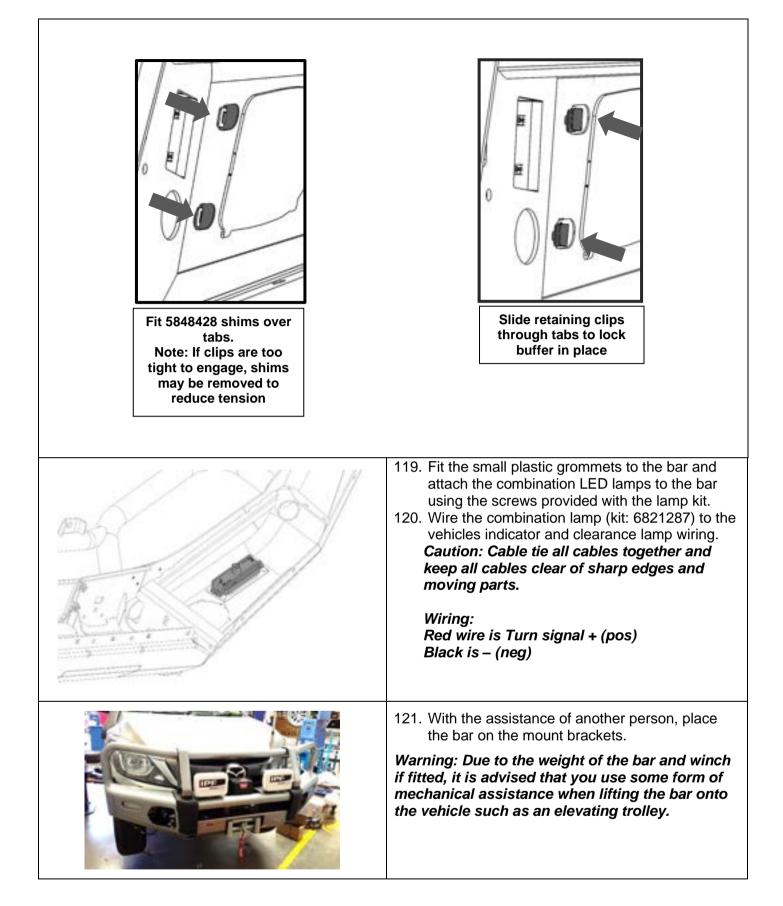


Fit 4 x screws and washers. Do not tighten screws. Leave enough play in buffers for adjustment later.

Note: Ensure that the skirts of the rubber intersection mouldings are not folded back on themselves and are sitting flat against the buffers.





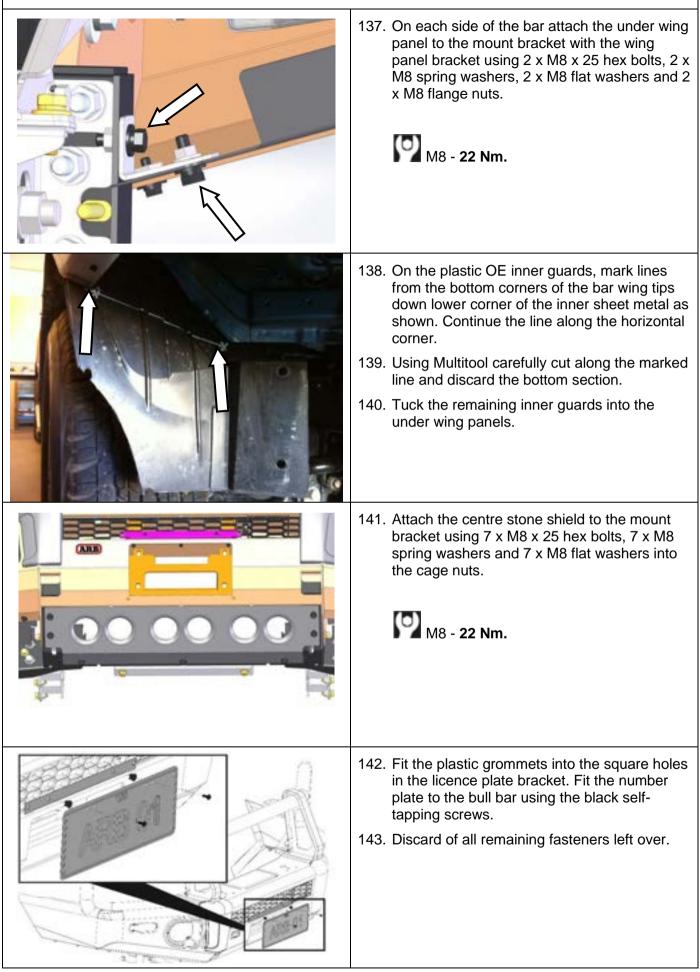


FITTING PROCEDURE	
	<ul> <li>122. Attach the bar to the mount bracket using 2x M12 x 35 bolts, 1x M12 x 80 bolt, 1x spacer 35mm long, 3x M12 spring washers and 3 large diameter M12 flat washers, into the nut plates which are placed inside the box upright sections of the mount bracket. Leave loose at this stage.</li> <li>123. Repeat on the LH side.</li> </ul>
	<ul> <li>124. Position the bar so that it is level to the vehicle's side steps and there is a gap between the top face of the wings and the bottom edge of the guards of 18-22mm and the wing tips are aligned with the edge of the wheel arch.</li> <li>125. Centralise the bar and tighten all mounting bracket related fasteners to the specified torque.</li> <li>126. Tighten the bar to mount fasteners to the specified torque.</li> <li>126. Tighten the bar and mount fasteners to the specified torque.</li> </ul>
	127. Double check the position of the bar.
	<ul><li>128. If happy with the position of the bar drill 4x</li><li>Ø10mm pinning holes using the pre-cut holes in the bar uprights as guides.</li></ul>
	129. Use paint or rust protection on the drilled holes.
	Warning: Drilling operations can result in flying metal debris, safety glasses should be worn.
	130. Pin the holes using 4 M10 SEMS bolts and 4x M10 flange nuts.
HR	<ul><li>131. Tighten the fasteners to the specified torque.</li><li>M10 - 44 Nm.</li></ul>

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 Fitting instructions# 3789467

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FITTING PROCEDURE	
	<ul> <li>132. Assemble and install combination light surrounds (p/n 3163082) as per instructions no. 3789190 supplied with surround kit. Note: Optional fog lamps can be installed at this point as per fitting instruction no. 3783315 supplied with fog lamp kit no. 6821201.</li> <li><i>CAUTION: Cable-tie all cables together and keep all cables clear of sharp edges and all moving parts.</i></li> <li>133. Check the operation of all lights wired during bar fitment</li> </ul>
ADD DD	134. Fit 5 x M6 cage nuts to each of the under wing panels as shown.
	<ul> <li>135. Fit the RH under wing panel to the RH wing as shown and attach using 5 x M6 x 20 hex bolts, 5 x M6 spring washers and 5 x M6 flat washers.</li> <li>136. Repeat on the LH side.</li> <li>M6 - 9 Nm.</li> </ul>



ONCE BAR IS FITTED:

- Ensure all bolts are tensioned correctly.
- All wiring is clear of sharp edges or moving surfaces and secured properly.
- Piping is secured well away from sharp or moving components
- Check operation of winch if fitted.
- Check all wiring and connections to turn signal lamps, sensors, headlamp washers etc. are functioning correctly.

