

Part Number:	3440510
Product Description:	SUMMIT BULL BAR
Suited to	FORD RANGER 2015 ON, EVEREST 2015 ON (NOT TITANIUM),
vehicle/s:	RANGER MY19 XL MODELS ONLY (07/2018 ON)
Optional Kits:	3500720 Winch Install Kit
	3500640 ARB AUX Fog Light Adaptor
	3500530 ARB AUX Fog Light Loom (non-factory fog lamp vehicles)
	3500680 Fog Lamp Housing Clear Lens Kit
	3500590 Fog Light Kit (LH&RH Lights)
	3540150 Adaptive Cruise Control Kit
	3540170 Parking Sensor Retro Fit Kit

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

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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 Ford Ranger 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.

Maintenance of adaptive cruise control components (if fitted) must only be performed by an authorized ARB workshop. No adjustments to the radar and/or bull bar are permissible following original fitment unless conducted by your local authorized ARB stockist. Regular cleaning of radar must be carried out in order to ensure it is operating in under its full capacity.

FITTING REQUIREMENTS		
REQUIRED TOOLS FOR FITMENT OF PRODUCT:		
BASIC TOOL KIT	ELECTRIC DRILL & Ø2, Ø5.5,Ø7 & Ø10MM BITS	
JIG SAW OR MULTI-TOOL WITH BLADE SUITABLE FOR PLASTIC	MATTE BLACK SPRAY PAINT	
FILE OR SAND PAPER	MASKING TAPE	
BASIC MEASURING TOOLS	ELECTRICAL TAPE (BLACK)	
CONVOLUTED TUBE (7MM & 12MM)	HACK SAW OR EQUIV.	
TORQUE WRENCH 9-100 Nm CAPACITY	Large G-Clamp	
LOCTITE 243		
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.

SIZE	Torque (Nm)	Torque (ftlb)
Plastics Screws	0.8	0.6
M6	9	7
M8	22	16
M10	44	32
M12	77	57
M16	90	66

FASTENER TORQUE SETTINGS:

PARTS LISTING			
APPLICATION.	PART NO.	DESCRIPTION	QTY
	3759563	BRACKET CHAS MOUNT RANGER LRG RAD	1
	3759574R	BRACKET CHASSIS BRACE INNER RIGHT	1
	3759574L	BRACKET CHASSIS BRACE INNER LEFT	1
	3759575R	BRACKET CHASSIS BRACE OUTER RIGHT	1
	3759575L	BRACKET CHASSIS BRACE OUTER LEFT	1
	3759576R	BRACKET BULL BAR BRACE RIGHT	1
	3759576L	BRACKET BULL BAR BRACE LEFT	1
	4584375	SPACER Ø1 ¼" 15MM THICK	2
FIT MOUNT	5848427	PACKER CHASSIS 5MM THICK	4
BRACKET TO	6151357	BOLT SEMS M10 X 30 ZP Gd 8.8	10
CHASSIS	4581011	WASHER FLAT, M12 x 27 x 4	10
	4581083	WASHER FLAT, M10 x 21 x 2 ZP	2
	4581050	WASHER SPRING 1/2 x 3/16 x 3/16 ZP	10
	4581048	WASHER SPRING M10 TZP480	2
	6151360	BOLT M12 x 1.75 x 35 Gd 8.8 ZP	10
	6151428	NUT FLANGE M12 X 1.75 ZP	10
	6151456	BOLT M10 x 1.5 x 45 Gd 8.8 ZP	2
	6151727	BOLT HXFL M16 x 2.0 x 35 FT PC8.8 TZP	2
ľ	6151728	NUT FL SM M16 x 2.0 PC8 TZP	2
	4584376	SPACER Ø1 ¼ " 35MM THICK	2
-	6151357	BOLT SEMS M10 X 30 ZP Gd 8.8	4
-	6151306	NUT CAGED M12 1.8-3.2	6
FIT BAR TO	4581050	WASHER SPRING 1/2 x 3/16 x 3/16 ZP	6
MOUNT BRACKET	6151360	BOLT M12 x 1.75 x 35 Gd 8.8 ZP	4
	6151168	BOLT M12 x 1.75 x 80 CL8.8 ZP	2
	3194293	PLATE NUT MOUNT RANGER T6	2
	4581007	WASHER FLAT 1/2 x 1.1/2 x 4MM SILVER	6
	6151321	NUT FLANGE M10 x 1.5 ZP	12
	3789424	CUTTING TEMPLATE BUMPER RANGER 15 ON	1
MISC	6151349	8 - 15 X 15 mm BUTTON HEAD SELF TAPPING GP	4
	180302	CABLE TIE 4.8 X 180 MM BLACK	9
-	6191037	PINCH WELD 1000mm	1
	6151213	BOLT M6 x 1.0 x 20 Gd8.8 BZ	3
	4581287	WASHER SPRING M6 x 2.5 x 1.6 BLK ZN	3
FIT LICENSE	4584295	WASHER FLAT M6 X 12 X 1.3 BLK ZN	3
PLATE	6151128	NUT FLANGE M6 x 1.0 ZP	3
BRACKET	3759488	BRACKET LIC PLATE FIXED LARGE RAD	1
	6821189	GROMMET RND FC 1500 080 090	2
	6151384	SCREW 10G x 5/8 SELF TAPPING	2
	6151213	BOLT M6 x 1.0 x 20 Gd8.8 BZ	4
-	4581287	WASHER SPRING M6 x 2.5 x 1.6 BLK ZN	4
	4584295	WASHER FLAT M6 X 12 X 1.3 BLK ZN	4
ACCESS PANEL	6151128	NUT FLANGE M6 x 1.0 ZP	4
ŀ	6522985	PRESS FORM WINCH COVER PANEL	1

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PARTS LISTING			
APPLICATION.	PART NO.	DESCRIPTION	QTY
	6522940R	PANEL UNDER WING RANGER 110N LRG RAD	1
-	6522940L	PANEL UNDER WING RANGER 110N LRG RAD	1
	3758957	BRACKET WING PANEL RANGER T6	2
	6151132	NUT FLANGE M8 x 1.25 ZP	7
	4581082	WASHER FLAT, M6 x 19 x 1.6 BZ	10
	4581047	WASHER SPRING M8 x 3/32 x 3/33 BLK	14
FIT UNDER	4581287	WASHER SPRING M6 x 2.5 x 1.6 BLK ZN	10
PANELS	6151234	BOLT M8 x 1.25 x 25 Gd 8.8 BP	14
	6151213	BOLT M6 x 1.0 x 20 Gd8.8 BZ	10
	6151300	NUT CAGED M6 2.6-3.5	10
	6151301	NUT CAGED M8 3.3-4.7	7
	6522838	PANEL SPLASH RANGER T6	1
	3758956	BRACKET OE STONE SHEILD RANGER T6	1
	6151357	BOLT SEMS M10 X 30 ZP Gd 8.8	2
	6151321	NUT FLANGE M10 x 1.5 ZP	2
	4581307	WASHER FLAT, M8 x 20 x 2 BLK ZN	14
	6821287	LAMP LED INDICATOR CLEARANCE	1
	3163082	KIT SURROUND ARB FOGLIGHT	1
LIGHTS AND	6821116	GROMMET NYLON SNAP IN TYPE	4
MOULDINGS	3500880	GRILLE SPLIT PAN KIT	1
	5100200	BUFF KIT 2PCE FRONT SECTION	1
	5100210	BUFF KIT 2PCE REAR UPRIGHT BAR	1
	6151464	SCREW BUTTON HEAD M8 x 1.25 x 25 BLK ZN	2
DIGITAL RADIO	4581047	SPRING WASHER M8 BLK ZN	2
RELOCATION	4581307	WASHER FLAT M8 BLK ZN	2
Ē	6151548	NUT FLANGE M8 x 1.25	2

Everest	 Note: Read the instructions thoroughly before starting. Some sections relate to a specific vehicle model and year. 1. Open the bonnet and remove the screws and retaining clips used to retain the plastic cover above the grille. Carefully detach plastic cover. Note: Everest requires the 2 bolts securing the air duct to be removed.
	 FOR RANGER: 2. Remove the screws and retaining clips used to retain grille. Carefully detach grille piece from vehicle. FOR EVEREST: 3. Remove 2 screws retaining grille. Retain screws. Clips and grille. Note: Take note where fasteners are removed from as some have to be replaced later in the fitment.
	 Remove all the bumper fasteners along the inside edge of the wheel arches.
	 FOR RANGER: 5. Remove all the fasteners securing the bottom of the bumper to the vehicle.

FITTING PROCEDURE		
	FOR RANGER: (<i>N/A FOR MY19 XL RANGER</i>)	
	 Undo and remove the screws and plastic clips behind the grille near the lower inner edge of the head lights. 	
	FOR RANGER:	
	 Remove the screws and clips holding the inner grille air deflectors to the vehicle. 	
	8. Retain air deflectors, screws and clips.	
	 FOR RANGER: 9. Carefully remove all clips used to retain bumper to crash beam. 	
	FOR EVEREST:	
	10. On both sides undo and remove the screws behind the grille near the lower inner edge of the head lights.	
	FOR EVEREST:	
	 Remove all the fasteners securing RH SIDE outer trim panel to the vehicle and detach. Discard the panel. Repeat on LH Side 	

FITTING PROCEDURE		
	FOR EVEREST:13. Remove all the fasteners securing centre trim panel to the vehicle and detach. Discard the panel.	
	 14. Disconnect all sensors and fog lights attached to the bumper and allow them to hang loose. <i>NOTE: Parking sensor connector is on LH side of bumper.</i> 15. 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. 	
	 FOR RANGER: (<i>N/A FOR MY19 XL RANGER</i>) 16. Remove the plastic panel attached to the front cross beam by removing the plastic clips. Discard the panel. 	
	 FOR EVEREST & <i>MY19 XL RANGER</i>: 17. Remove the foam piece attached to the front cross beam by removing the plastic clips. Discard the foam piece. 	

 18. If vehicle is fitted with radar, refer to fitting instructions supplied with adaptive cruise control kit (Part No. 3540150 - purchased separately) for removal and relocation. If not, proceed to step 19. NOTE: Radars are initialised to each vehicle and cannot be used on other vehicles.
19. Use a screw driver to push the 2 x plastic clips inward from the front cross beam. Do not remove the clips as they will be used later.
20. Remove the factory under panel and place in a safe place. <i>Do not completely remove the rear bolts. Leave loose.</i>
21. Remove the front cross beam and discard.

FITTING	PROCEDURE
	22. Remove screws retaining RH & LH bumper retention blocks to vehicle and remove the retention blocks from both sides and set aside.
RANGER EVEREST	23. Remove and discard the inner guard support brackets from both sides of the vehicle.

24. Following fitting instructions 3789197 supplied in kit 6821287; install the LED combination lamp looms (also supplied in same kit).

Notes:

-Use a test light or multimeter to pick the appropriate wire to attach the loom to. -Cover each joint with either insulation tape or heat shrink tube.

- Use cable ties to secure all wiring

Function	LED	Vehicle Wire	
Function	Wire	RANGER	EVEREST
Ground	Black	BLK/Pur	ole (RHS)
		BLK/Yell	ow (LHS)
Indicator	Green	Blue/Orar	nge (RHS)
		Green/Bl	ue (LHS)
Clearance	Red	Brown/Yellow (RHS)	Pink/Yellow (RHS)
		Green/Yellow (LHS)	Green/Orange (LHS)

CLEARANCE



INDICATOR

*LHS shown

FOR MY19 RANGER XL MODELS ONLY (07/2018ON);

Euroption LED		Vehicle Wire
Function	Wire	RANGER XL
Ground	Black	Black/Purple (RHS)
		Black/Green (LHS)
Indicator	Green	Blue/Orange (RHS)
		Blue/Orange (LHS)
Clearance	Red	Brown/Yellow (RHS)
		Green/Orange (LHS)

NOTE: The wiring in vehicles fitted with factory 35W fog lights (2015 ON Wildtrak Model or Everest) is not suitable for running ARB fog lamps. Proceed to step 28.

For vehicles without factory fog lamps and where optional ARB fog lamps are to be fitted:

- 25. Install optional ARB wiring loom 3500530 and switch into vehicle. Refer to instructions supplied with loom. Place switch inside cabin in a suitable position.
- 26. Connect optional ARB fog lights (# 3500590) to wiring loom.
- 27. Proceed to step 34.

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





FITTING PROCEDURE	
TOP VIEW LOOKING DOWN	 IF FITTING MY19 RANGER XL, skip to step 44 42. Continue the line onto the bumper as shown using the edge of bumper as a guide. 43. Mark a line perpendicular to bumper 30mm inwards from locating hole on top surface as shown until it meets line on bumper edge.
Freeze como mara e sante cor sante e anti cor	44. Using scissors carefully cut out the supplied template.
	 45. Position template onto bumper as shown and using a marker pen, mark contour onto bumper until it meets other line on bumper. 46. Carefully remove the template and repeat steps 39-41 & 45 for LHS.
BEFORE TRIM	 BUMPER CUT FOR MY19 RANGER XL 07/18 ON ONLY: STEPS 47-48 47. Continue the line from the lower edge of the trim template on the RHS across the top of the bumper following the top-front edge of the bumper and connect this to the lower edge of the trim template marking on the LHS 48. Also remove two semi-circular notches on the front edge of the trimmed bumper to clear the Bull Bar uprights as shown.
Last Rev Date: 19/10/2021 Page	Warning: Cutting operations can result in flying metal debris, safety glasses should be worn.

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FITTING PROCEDURE	
	 BUMPER CUT FOR EVEREST: STEPS 67-83 67. Place the bumper on a stand facing upwards. 68. Place 50mm masking tape below the ridge of the bumper. 69. On the masking tape, mark a line across the bumper 5mm below the ridge line.
20mm 100mm RIDGE	 70. Below the grille place 50mm masking tape above the ridge of the bumper. 71. On the masking tape, mark a line 20mm above from the ridge line. 72. On both sides of the bumper mark a vertical line 100mm inboard of the edge of the grille.
Deneor: Commo minimate summe Cor autorite and menume bott co-s-ce. cod menume bott co-s-ce. cod deneration and autorite and deneration an	73. Using scissors carefully cut out the supplied template.
	 74. Position template onto bumper as shown and using a marker pen, mark contour onto bumper until it meets other line on bumper. 75. Carefully remove the template and repeat for LHS.



FITTING PROCEDURE	
6	84. Remove clips from digital aerial antenna and disconnect at connector.
A Man	85. Using a multitool carefully cut around metallic plate corresponding to digital aerial antenna.
	86. Retain antenna for re-fitment later on.
	Warning: Cutting operations can result in flying metal debris, safety glasses should be worn.
	87. Unbolt digital radio module and unclip wire harness.
	88. Reattach digital radio module to outer most bolting position and re-attach wire harness.
	FOR RANGER:
Mark line onto air deflector	89. Mark a line onto RH air deflector removed in step 7 as shown 30mm below mounting tab.
	90. Carefully cut along marked line and dispose of lower section of air deflector.
	91. De-bur the cut edges with a file or sandpaper.
	92. Repeat for LH air deflector.
Mounting tab	
	Warning: Cutting operations can result in flying metal debris, safety glasses should be worn.

<image/>	 FOR RANGER: 93. The horn & harness will require to be rotated for clearance to brackets. Unplug the harness and remove the horn by removing the mounting bolt. 94. Turn the horn over and loosen the retaining nut. Rotate the arm 180°, and tighten the retaining nut. 95. Re fit the horn in its original position and reroute the harness to the top. Use cable ties if necessary to reposition the harness.
	FOR EVEREST: 96. On LH side remove 2 X screws holding duct to vehicle. Carefully detach duct piece from vehicle.
<image/>	 FOR EVEREST: 97. On the LH side carefully detach sensor. 98. Mark lines on air deflectors as shown. 99. Carefully cut along marked line and dispose of lower section of air deflector. 100. De-bur the cut edges with a file or sandpaper. Image: Cutting operations can result in flying metal debris, safety glasses should be worn.

FITTING PROCEDURE	
Clipping point	 FOR EVEREST 101. On RH side of lower air deflector mark a vertical and horizontal line 15mm from the centre of the clipping point. 102. Using the marked lines as a guide cut out a 50mm deep section form the deflector. 103. De-bur the cut edges with a file or sandpaper. Image: Cutting operations can result in flying metal debris, safety glasses should be worn.
FRONT EDGE	 104. 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. Note: Ensure that packer is placed correctly, with tabs pushed against brace.
	105. Fit the M16 x 35 flange bolt through the front access cut out of the front flange of the chassis.

FITTING PROCEDURE	
	 106. 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. NOTE: Ensure that packer is placed and aligned correctly.
	 107. Fit 4 x M12 x 35 bolts, 4 x M12 flat washers, 4 x M12 Flange nuts. M12 Flange nuts. M12 - 77 Nm. NOTE: Do not fit the M12 spring washers these will be fitted later on.
	 108. Using a spanner to hold the M16 flange bolt, torque the M16 flange nut. M16 - 90 Nm. NOTE: Take care to torque as per requirement. DO NOT torque outside the specs provided.
	 109. 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. 110. Fit the M10 x 1.5 x 45 bolt, M10 spring washer and M10 flat washer.

 111. Fit the 2 x M10 x 30 SEMS bolts and M10 flange nuts to the bottom of the brackets to clamp them together. 112. Fit the M10 x 30 SEMS bolt and M10 flange nut to the brack and subtrackets.
nut to the brace and outer bracket. 113. Fit the 15mm wide spacer between the brace and the outer bracket and then fit the M10 flange nut
 114. Remove the 4 x M12 x 35 bolts, 4 x M12 flat washers and 4 x M12 flange nuts fitted in step 102 and set aside for later.
<i>Note: Keep all M10 fasteners loose and only finger tight at this point.</i>
Repeat steps 104-114 for the LH side.
115. 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>
116. 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.
117. Repeat on the LH side.
M12 - 77 Nm.



FITTING PROCEDURE	
RANGER EVEREST	123. Using the original plastic clips re-fit the factory air deflector to the 2 x holes in the mount bracket.
	FOR RANGER:
	 124. Using the pegs on the sensor as a guide, Drill 2 x 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.
	FOR EVEREST:
	125. Using the pegs on the sensor as a guide, Drill 2 x Ø5.5mm holes in the LH air deflector so that the sensor can be fitted approximately 20mm above of the cut edge.
	126. Push the pegs into the drilled holes, attaching the sensor.
	Warning: Drilling operations can result in flying metal debris, safety glasses should be worn.
	127. Fit 3 x M12 cage nuts to each of the cage nut plates as shown.
Fit screw here	128. Fit the bumper and grille back onto vehicle using reverse sequence to removal process
	129. Fit pinch weld to lower cut edge of grille (RANGER ONLY)
	130. Drill a Ø2mm hole through each end corner of the bumper into the guard sheet metal.
	131. Attach the bumper to the guards using the Phillips head self-tapping screws.
	132. Fit pinch weld on exposed edge of bumper cut.

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 136. If no winch is being fitted continue from here.

- 133. Slide the winch cover panel from the bottom up until it is level with the top face of the bar.
- 134. 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.



Generic image. Bull Bar shown may not be representative of actual product.

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:

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

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

137. 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.



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



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



145. From the rear of the bar, slide the rear buffer sections under the rubber mouldings.

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.



146. By aligning the front buffer with the tongue of the rear buffer, attach the front buffers to the front face of the bar. Ensure each buffer sits flat against the face of bar and is keyed into the top section of the rear buffer.

Secure wing side using retaining clips.

Secure inner side using the angled cup washers, flat washers and screws.

The widest point of the cup washers goes to the top of the bar.



Generic image. Bull Bar shown may not be representative of actual product.



Fit washers under screw heads.





FITTING PROCEDURE	
	 147. Fit the small plastic grommets to the bar and attach the combination LED lamps to the bar using the screws provided with the lamp kit. <i>Caution: Cable tie all cables together and keep all cables clear of sharp edges and moving parts.</i>
	 148. With the assistance of another person, place the bar on the mount brackets. Warning: Due to the weight of the bar and winch if fitted, it is advised that you use some form of mechanical assistance when lifting the bar onto the vehicle such as an elevating trolley.
	 149. Attach the bar to the mount bracket using 2 x M12 x 35 bolts, 2 x M12 spring washers and 2 large diameter M12 flat washers, into the nut plates which are placed inside the box upright sections of the mount bracket. <i>Leave loose at this stage.</i> 150. Repeat for LH side
	 151. Fit the 35mm wide spacer and the M12 x 1.75 x 80 bolt, M12 washer and M12 spring washer. <i>Leave loose at this stage.</i> 152. Repeat for LH side



FITTING PROCEDURE	
	163. Fit 5 x M6 cage nuts to each of the under wing panels as shown.
	 164. 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. 165. Repeat on the LH side. 165. M6 - 9 Nm.
	 166. On each side of the bar attach the under wing panel to the mount bracket with the wing panel bracket using 2 x M8 x 25 hex bolts, 2 x M8 spring washers, 2 x M8 flat washers and 2 x M8 flange nuts. M8 - 22 Nm.
	 167. On the plastic OE inner guards, mark lines from the bottom corners of the bar wing tips down to the square corners in the inner guards. Continue the line along the horizontal corner. 168. Using scissors, sheers or a sharp knife, carefully cut along the marked line and discard the bottom section.



NOTICE: ONCE SUMMIT BAR IS FITTED:

- Ensure all bolts are tensioned correctly.
- All wiring is clear of sharp edges or moving surfaces and is secured properly.
- Piping is secured well clear of 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.

FITTED PRODUCT

