

Part Number:3440400ProductDELUXE WINCH BULL BARDescription:FORD RANGER PX 2011ONSuited to
vehicle/s:FORD RANGER PX 2011ONWinch Install3540050Kit: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

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 Canuba 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 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.

To prevent overloading the turn and clearance lights must be activated through relays. Relay looms are provided within this kit to wire these lights. For further reference please see the attached wiring diagram at the end of these instructions.

FITTING REQUIREMENTS

REQUIRED TOOLS FOR FITMENT OF PRODUCT:

BASIC TOOL KIT	ELECTRIC DRILL & Ø2, Ø5.5,Ø7 & Ø10MM BITS
JIG SAW WITH BLADE SUITABLE FOR PLASTIC	MATTE BLACK SPRAY PAINT
FILE OR SAND PAPER	MASKING TAPE
BASIC MEASURING TOOLS	ELECTRICAL TAPE (BLACK)
CONVULUTED TUBE (7MM & 12MM)	

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.

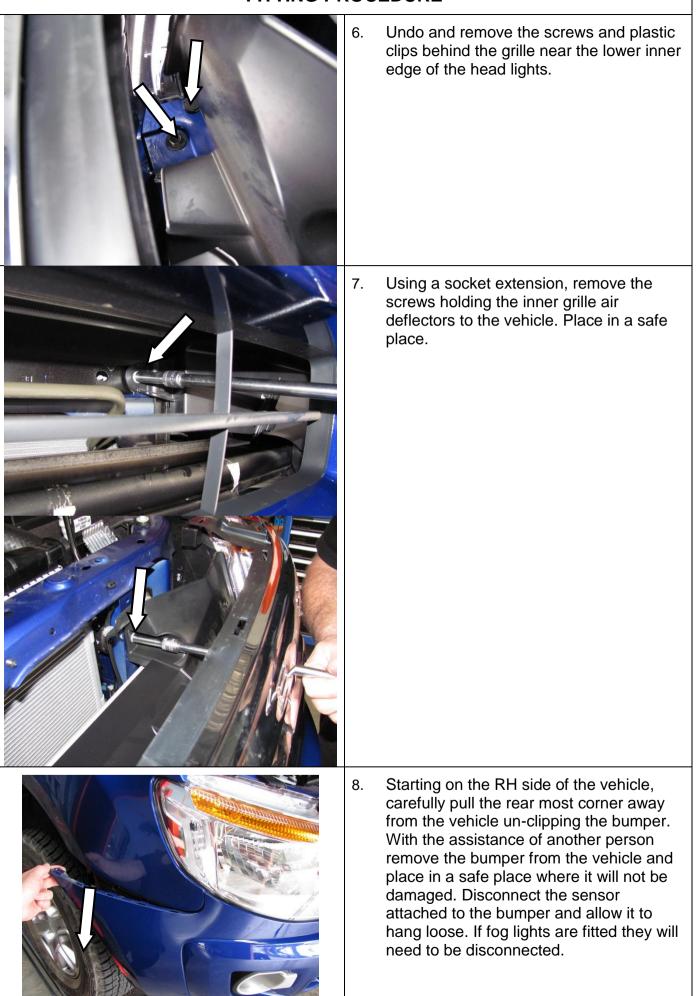
SIZE	Torque Nm	Torque lbft
M6	9Nm	7lbft
M8	22Nm	16lbft
M10	44Nm	32lbft
M12	77Nm	57lbft

FASTENER TORQUE SETTINGS:

	PARTS LISTING				
APPLICATION.	PART NO.	QTY	DESCRIPTION		
	3787985	1	CUTTING TEMPLATE BUMPER		
PREPARE VEHICLE	6151349	2	SELF TAPPING SCREW PHILLIPS HD		
			1		
	3758263	1	MOUNT ASSEMBLY		
	3758265R	1	CHASSIS BRACE RH		
	3758265L	1	CHASSIS BRACE LH		
	3758956	1	OE STONE SHEILD BRACKET		
	4581011	10	WASHER FLAT M12 x 27 x 4		
	6151360	10	HEX BOLT M12 x 1.75 x 35 G8.8		
	6151428	10	FLANGE NUT M12		
	4581050	10	WASHER SPRING M12		
	6151357	6	SEMS BOLT ASSY M10 X 30		
NOUNT TO VEHICLE	4721760	4	CRUSH TUBE		
	6151485	4	HEX BOLT M10 x 1.5 x 80		
	3194288	2	NUT PLATE		
	4581083	4	WASHER FLAT M10 x 21 x 2		
	6151321	2	FLANGE NUT M10		
	4581048	4	SPRING WASHER M10		
	6151234	3	HEX BOLT M8 x 25 BLACK		
	4581047	3	WASHER FLAT M8 BLACK		
	6151132	3	FLANGE NUT M8		
	4581045	3	SPRING WASHER M8 BLACK		
	3162470R	1	BUFFER RH		
	3162470L	1	BUFFER LH		
	6821151R	1	INDICATOR RH		
BUFFERS, INDICATORS AND FOG	6821151L	1	INDICATOR LH		
LIGHTS TO BAR	3163015	1	FOG LIGHT SURROUND KIT		
	6151128	12	FLANGE NUTS M6		
	6821272	1	LOOM INDICATOR/CLEARANCE		
	6151143	3	TEK-SCREWS		
	3194293	2	CAGE NUT PLATE		
	6151306	6	CAGE NUT M12		
	6151360	6	HEX BOLT M12 x 1.75 x 35 G8.8		
BAR TO VEHICLE	4581050	6	WASHER SPRING M12		
	4581007	6	WASHER FLAT 1/2" x 1.1/2" x 4mm		
	6151357	4	SEMS BOLT ASSY M10 X 30		
	6151321	4	FLANGE NUT M10		

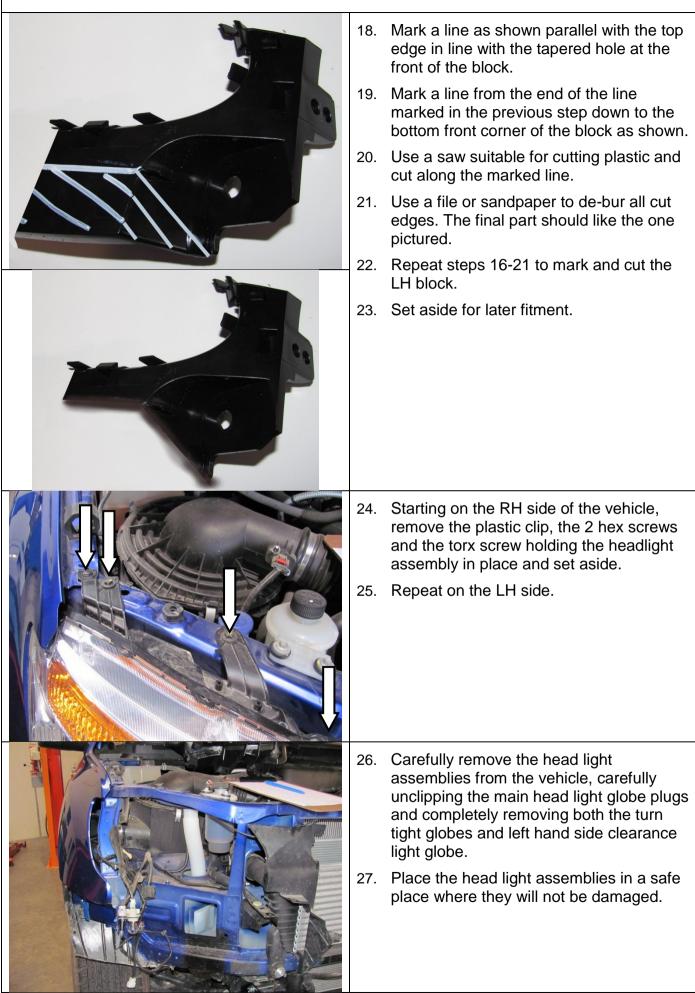
PARTS LISTING				
APPLICATION.	PART NO.	QTY	DESCRIPTION	
	6522838	1	STONE SHIELD CENTRE	
	6522837R	1	UNDER WING PANEL RH	
	6522837L	1	UNDER WING PANEL LH	
	3758957	2	BRACKET WING PANEL	
	6151301	7	CAGE NUT M8	
	6151234	11	HEX BOLT M8 x 25 BLACK	
UNDER PANELS TO BAR	4581047	11	WASHER FLAT M8 BLACK	
	4581045	11	SPRING WASHER M8 BLACK	
	6151300	14	CAGE NUT M6	
	6151213	14	BOLT M6 x 20 BLACK	
	4581082	14	WASHER FLAT M6 BLACK	
	4581287	14	SPRING WASHER M6 BLACK	
	6151132	4	FLANGE NUT M8	
	·		•	
NUMBER PLATE TO BAR	6821189	2	PLASTIC PLUGS	
(NO WINCH FITTED)	6151384	2	SELF TAPPING SCREWS	
		1		
	6522938	1	PANEL WINCH ACCESS COVER	
	6191013	1	RUBBER EXTRUSION	
	4581304	2	WASHER M6 SS	
(NO WINCH FITTED)	6151128	2	NUT FLANGE M6	
	6151256	2	SCREW BUTTON HEAD M6 X 16 SS	
	I	1		
WINCH TO BAR	3540050	1	OPTIONAL WINCH INSTALL KIT	

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



FITTING PROCEDURE			
	9.	Remove the plastic panel attached to the front cross beam by removing the plastic clips. Discard the panel.	
	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.	Remove the front cross beam and discard	
	12.	Remove the factory under panel and place in a safe place. Do not completely remove the rear bolts. Leave loose.	

FITTING PROCEDURE			
	13. Carefully unclip the grille from the bumper and place in a safe place.		
	14. Remove the RH and LH bumper retention blocks from either side of the vehicle and place in a safe place.		
	15. Remove and discard the inner guard support brackets from both sides of the vehicle.		
	16. Starting with the RH bumper retention block removed in step 18, mark as shown using a white marker pen. Note the position of the marking in relation to the lugs on the top edge of the block.		
	17. Use a saw suitable for cutting plastic and cut along the maker line.		



Refer to table below for Wire Colour designations of P/No: 6821272

LOOM INDICATOR / CLEARANCE			
DESCRIPTION WIRE COLOUR			
Main battery positive	Red		
Main battery negative	Black		
Clearance Light signal wire	Blue / Black		
Left hand turn light signal wire	Green / Black		
Right hand turn light signal wire	Yellow / Black		

28.	Using the tek-screws provided, attach the 3 relays to the panel directly behind the LH head light as shown.
29.	Route the battery positive and the battery negative wires to the relevant sides of the vehicles battery. Do not attach at this stage.
30.	On each side of the vehicle, carefully cut back the protective tubing from the turn light globes wiring being careful not to damage the wires inside.

FITTING PROCEDURE				
	31. On the left side of the vehicle, carefully cut back the protective tubing from the clearance light globe wiring being careful not to damage the wires inside.			
	32. Starting on the LH side of the vehicle, scotch-lock the Clearance light signal wire of the loom (Blue / Black) to the OE positive clearance light wire (Green / Yellow).			
	 Scotch-lock the Left Hand turn light signal wire of the loom (Green / Black) to the OE positive turn light wire (Green / Blue) 			
	34. Cover the connections with black electrical tape for protection.			
	35. Route the remainder of the loom across the front of the vehicle along the cross beam that runs below the intercooler as shown.			
	Note: It is recommended that all wires are covered with protective convoluted tubing to prevent damage during use.			
	 36. On the RH side of the vehicle, scotch-lock the Right Hand turn light signal wire (Yellow / Black) to the OE positive turn light wire (Blue / Yellow) 			
	37. Cover the connections with black electrical tape for protection.			
	<i>Note: A test light should be used to ensure that the correct wires are chosen.</i>			

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

- 38. Tidy all wiring and secure neatly to the vehicle using the cable ties supplied with the indicator/clearance loom. Ensure they are kept away from sharp and moving parts.
- 39. Replace the head light assemblies by reversing the removal step above ensuring that the LH and RH White Connectors (to suit 6821151L/R) are able to hang down from below the head lights.
- 40. Connect the positive and negative battery wires to relevant terminals on the vehicles battery.



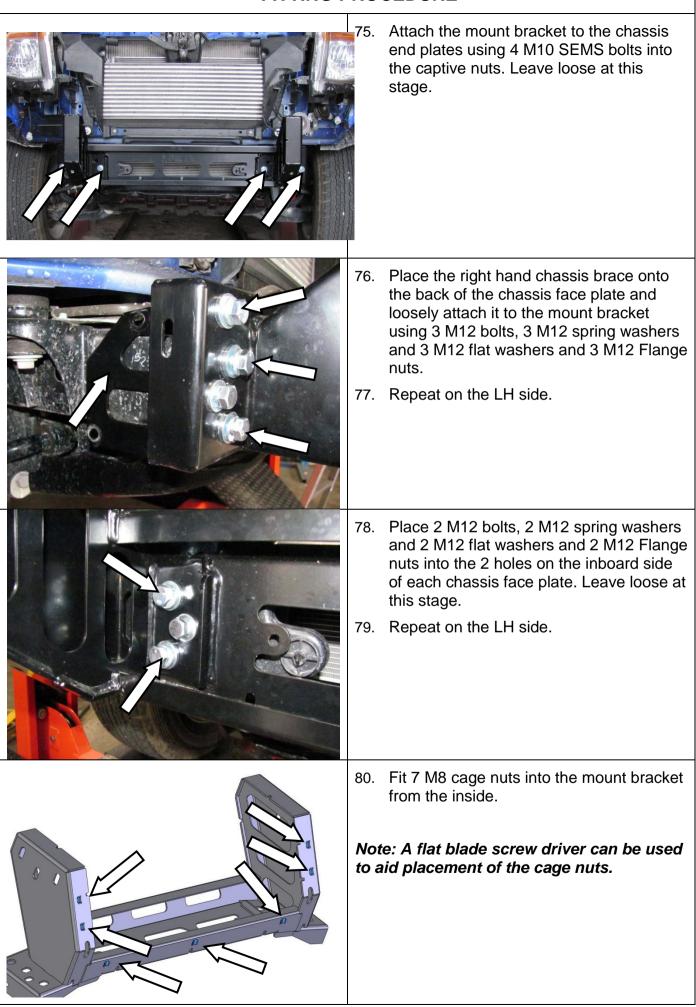
- 41. Carefully mask the area surrounding each side of the guard as shown (RH shown, LH same).
- 42. Thoroughly clean the area.
- 43. Using Matte Black spray paint, paint the masked area.
- 44. Allow to dry.
- 45. Re-fit the bumper retention blocks modified earlier.

Note: If you are fitting driving lights to the bar it is advisable that you install the wiring loom at this point.

FITTING PROCEDURE			
	46. Remove the 2 black plastic air deflectors attached to the bumper and set aside.		
	47. Place the bumper on a stand facing upwards.		
	48. Use masking tape to mark a straight line across the front of the bumper using the sharp corner at the front of the bar as a guide.		
	<i>Note: The line should end up being 90mm below the edge of the bumper that mates with the vehicles guard.</i>		
	49. Using a jig saw or similar, carefully cut along the line made in the previous step.		
	Note: It is advised that you take steps to prevent damage to the bumper when cutting such as placing masking tape on the jigsaw foot as shown.		
ATTIC CONCERNITARE ANALYSE CUT RANCES IS ATTIC CONCERNITARE ANALYSE ANA	50. Using scissors carefully cut out the supplied paper template.		

FITTING PROCEDURE			
		e template to the bumper as ing masking tape.	
	bumper a	iece of masking tape on the t the rear of the template as his will be used to mark on).	
	along the	narker pen, carefully trace a line rear most edge of the template g down the cut edge of the	
	on the op	remove the template and repeat posite side of the vehicle by the template.	
		cut along the marked lines the rear most sections of the	
	70mm do with the v	nes on each side of the bumper wn from the edge that mates rehicles guard and 80mm from nost edge as shown.	
	•	cut along the marked lines a rectangular notch. Discard the	
70	8. De-bur th sandpape	e cut edges with a file or er.	
BO	urring that y	careful when cutting and de- you don't damage the paint on rfaces of the bumper.	
	46 as sho lower mo across to opposite	RH air deflector removed in step own using the bottom edge of the unting lug as a starting point the bottom corner of the edge. cut along the marked lines	
	•	the lower off cut. Discard off cut.	

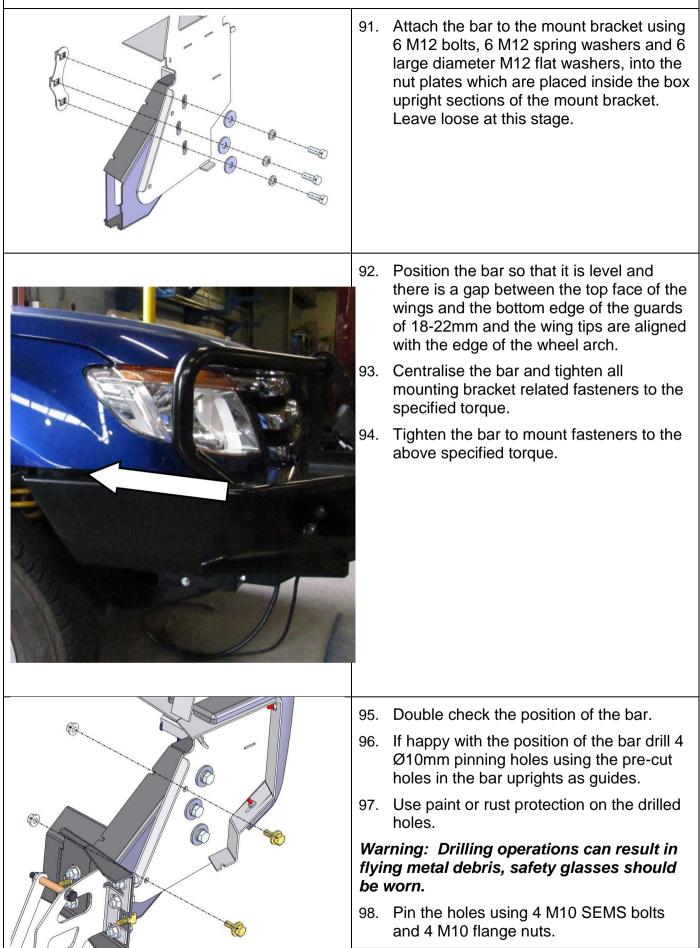
FITTING PROCEDURE		
	61.	Mark the LH air deflector removed in step 46 as shown using the bottom edge of the lower mounting lug as a starting point, marking a line perpendicular to the vertical edge below the lug.
	62.	Carefully cut along the marked line removing the lower off cut. Discard off cut.
	63.	On both the RH and LH air deflectors, mark a line from the bottom corner of the lower mounting lug up to the forward / bottom edge of the bumper mounting lug as shown.
	64.	Carefully cut along the marked line removing the lower off cut. Discard off cut.
	65.	Refit the air deflectors to the vehicle using the 2 factory screws in each side.
	66.	Refit the bumper to the vehicle by reversing the removal steps.
40m	67.	Tape the front centre face of the bumper as shown.
	68.	Using the outside edges of the 2 grille clip receivers on either side of centre as guides, mark vertical lines directly down the front of the bumper.
450 000	69.	Mark a parallel line 30mm from the bottom edge of the bumper starting and finishing 40mm outboard of the vertical line marked above.
	70.	On both sides of the vehicle mark a line 45 degrees down to the bottom edge of the bumper.
	71.	Carefully cut along the marked lines. Discard the cut piece.
	72.	De-bur the cut edges with a file or sandpaper.
	73.	Drill an Ø2mm hole through each end corner of the bumper into the guard sheet metal.
	74.	Attach the bumper to the guards using the Phillips head self-tapping screws.

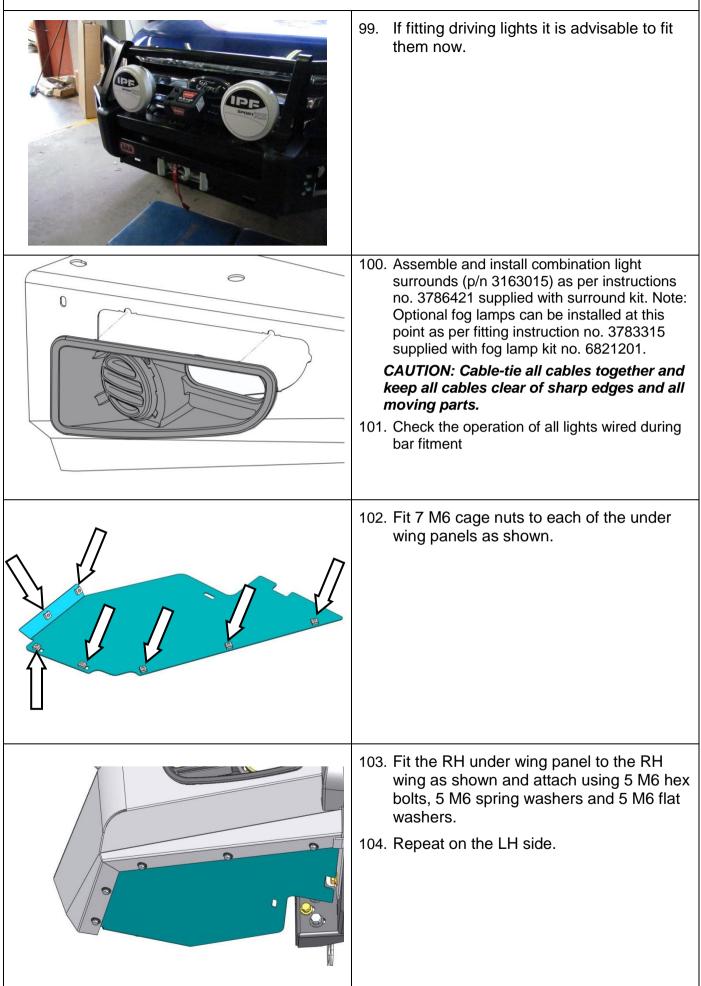


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FITTING PROCEDURE		
	81. Attach the OE stone shield bracket to the chassis mount using 3 M8 x 25 black bolts, 3 M8 black flat washers, 3 M8 black spring washers and 3 M8 flange nuts. Leave loose at this stage.	
	82. Secure the rear of the chassis braces to the chassis using 2 M10 x 80 bolts, 2 M10 spring washers and 2 M10 flat washers through 2 crush tubes into the nut plate assemblies on each side of the vehicle. Leave loose at this stage.	
	83. Re fit the OE stone shield to the bracket fitted in step 81 using 2 M10 SEMS bolts and 2 M10 flange nuts.	
	84. Using the original plastic clips re-fit the factory air deflector to the 2 holes in the mount bracket.	

FITTING PROCEDURE		
	 85. 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. 86. Push the pegs into the drilled holes, attaching the sensor. 	
	 87. Place the bar face down on a surface that will not damage it. 88. Attach the buffers to the bar as shown using 12 M6 flange nuts. <i>Warning: Do not over tighten the nuts or you risk pulling the studs from the buffers.</i> If fitting a winch refer to fitting isntructions 3787989 supplied with 3540050 winch install kit. If not proceed to step 89 	
	89. Fit 3 M12 cage nuts to each of the cage nut plates.	
	 90. 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. 	



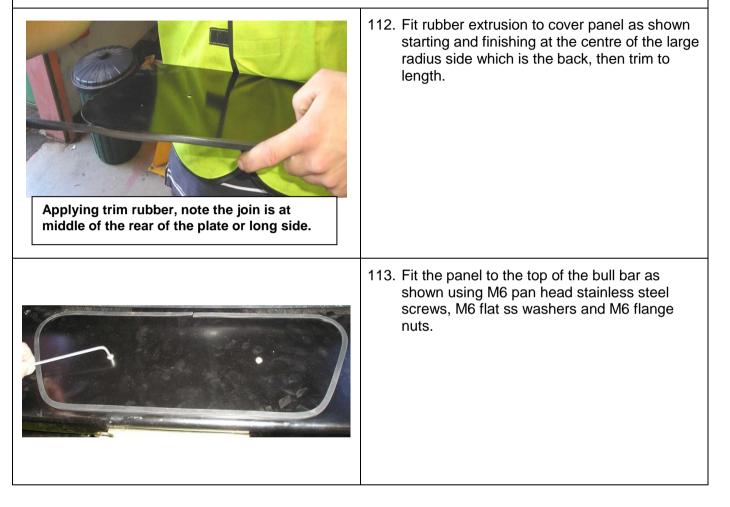


FITTING PROCEDURE		
	 105. On each side of the bar attach the under wing panel to the mount bracket with the wing panel bracket using 2 M8 hex bolts, 2 M8 spring washers, 2 M8 flat washers and 2 M8 flange nuts. 	
	 106. On the plastic OE inner guards, mark lines from the bottom corners of the bar wing tips down to the square corners in the inner guards. Continue the line along the horizontal corner. 107. Using scissors, sheers or a sharp knife, carefully cut along the marked line and discard the bottom section. 	
	 108. Mark and drill 2 Ø7mm holes through each of the inner guards in line with the cage nuts. Tip: Removing the front wheels will aid access for this task. 	
	109. Attach the inner guards to the under wing panels using 2 M6 hex bolts, 2 M6 spring washers and 2 M6 flat washers on each side of the vehicle.	
	110. Attach the centre stone shield to the mount bracket using 7 M8 hex bolts, 7 M8 spring washers and 7 M8 flat washers into the cage nuts fitted in step 79.	



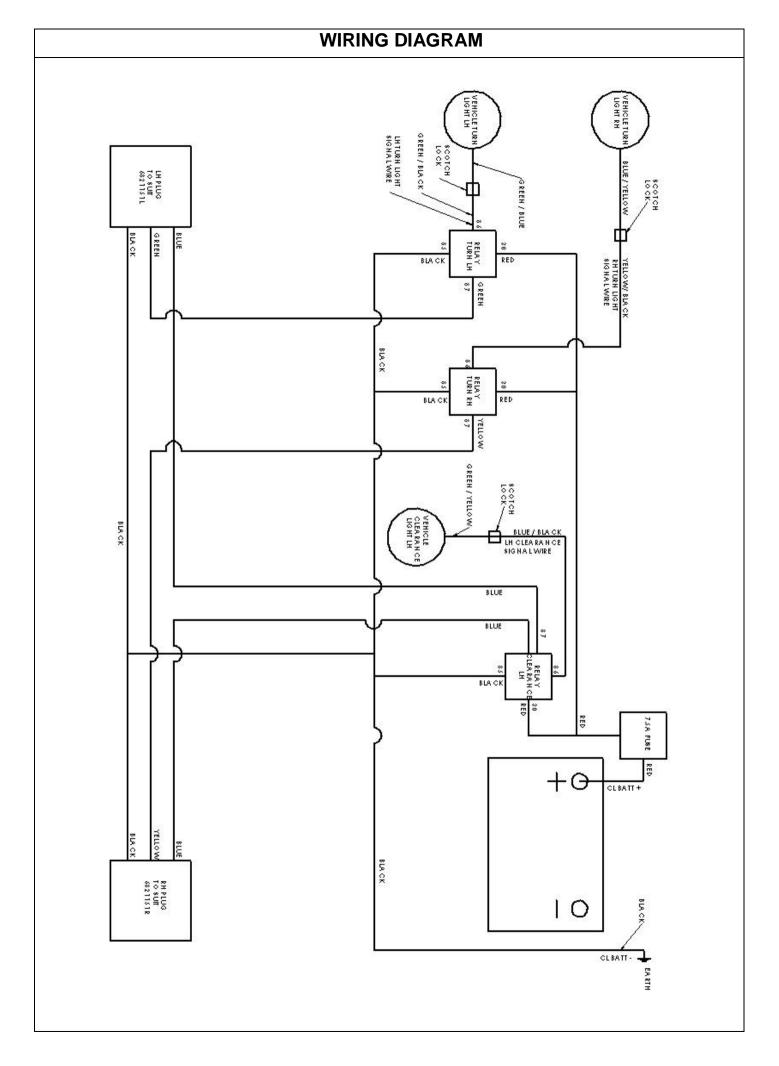
111. Fit the plastic plugs into the square holes in the lower pan. Fit the number plate to the bull bar using the black self-tapping screws.

FITTING PROCEDURE (IF NOT FITTING WINCH)



FITTED PRODUCT





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