

Part Number:3426050 F/Kit 6172687ProductDeluxe Combination Winch and Non Winch Bull BarDescription:SUZUKI GRAND VITARA SEP 08 ONvehicle/s:\*\*\* DOES NOT SUIT HEADLAMP WASHERS ON PRESTIGE MODELS

## **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.

#### **FITTING REQUIREMENTS**

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

METRIC SOCKET SET	METRIC RING AND OPEN ENDED SPANNER SET
ELECTRIC DRILL	3 & 10mm DRILL BITS
SHARP KNIFE	PHILLIPS AND FLAT SCREW DRIVER SET
FELT TIP PEN	HACKSAW BLADE OR SMALL HAND SAW
FINE FILE OR SAND PAPER	ELECTRIC JIG SAW
METRIC TAPE MEASURE	ROLLS OF 12 mm & 50 mm WIDE MASKING TAPE
TOUCH UP PAINT	DIE GRINDER AND CUTTING BIT
Loktite© 24240 Thread Locker	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.

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

#### FASTENER TORQUE SETTINGS:

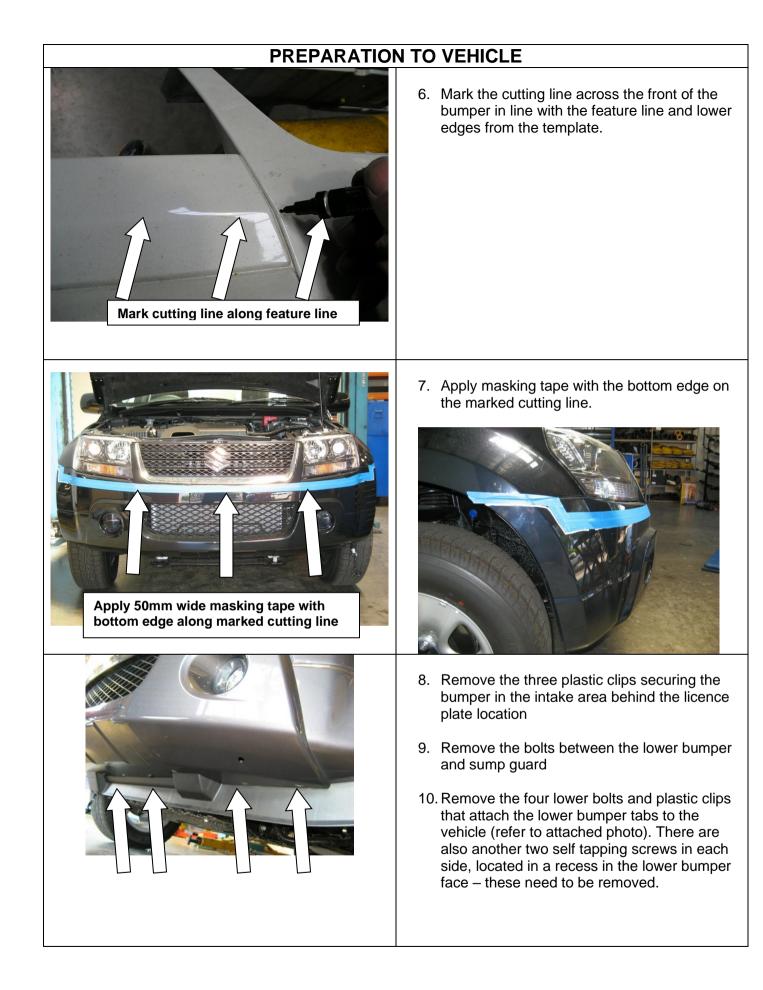
NOTE:

- ♦ OPTIONAL FOG LAMPS TO SUIT THIS PRODUCT ARE P#6821201. IF LOOM AND SWITCH REQUIRED USE P#MD02 LOOM KIT, P#180209 SWITCH AND P#180215 SWITCH CAP FOR FOGS
- UP TO 900 SERIES ROUND OR 800 RECTANGULAR DRIVING OR FOG LAMPS SUIT THIS PRODUCT

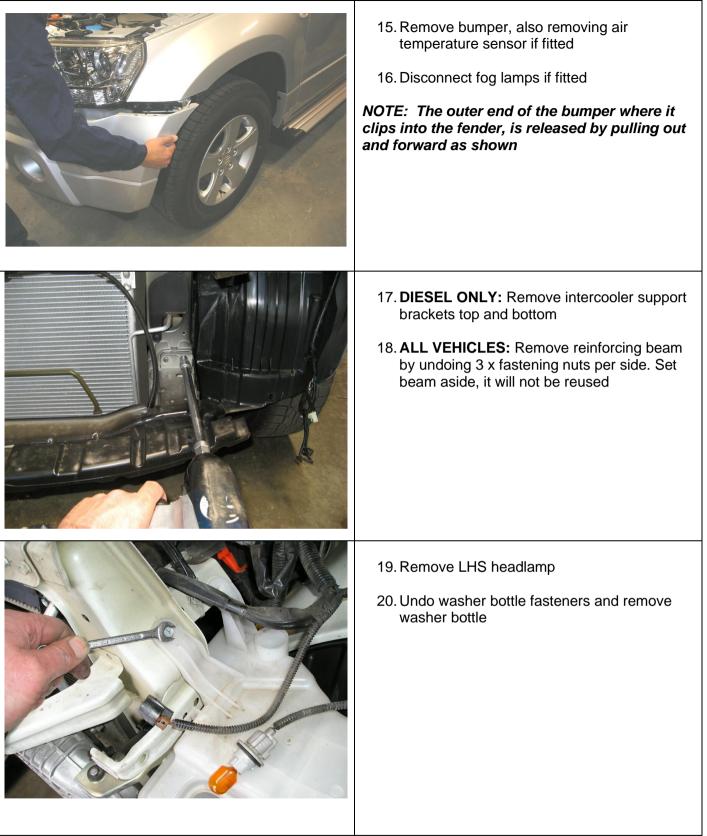
PARTS LISTING			
APPLICATION.	PART NO.	QTY	DESCRIPTION
	3757981R&L	1 PR	BRACKET ASSY IMP ABS RH & LH
	6151132	8	NUT FLANGED M8
MOUNT BRACKET (IMPACT	6151022	4	BOLT M8 x 25 mm LONG
ABSORBER) TO CHASSIS	4581044	4	WASHER FLAT M8
	4581046	4 2	WASHER SPRING M8 CAGE NUT M8
	6151301 3199943	2	PLATE CAGE NUT EXTENSION
	6151360	6	BOLT M12 X 1.75 X 35 (COARSE PITCH)
	4581007	6	WASHER FLAT M12 X 37 X 4
BULL BAR TO MOUNT BRACKETS	4581050	6	WASHER SPRING M12
	6151428	6	NUT FLANGED M12
<b>BUFFERS TO BULL BAR</b>	3162470R&L	1 PR	<b>BUFFER SLOTTED RH &amp; LH</b>
	6151128	12	NUT FLANGED M6
LICENCE PLATE TO BULL BAR	6151384	2	SCREW PAN HD
	6821189	2	GROMMET RND HD
	3163015	1	COMBINATION LIGHT SURROUND KIT
LIGHT INSERT AND INDICATORS	6821151R&L 6821152	1 PR	INDICATOR/CLEARANCE LAMP RH/ LH LOOM INDICATORS
	180701	2 6	SCOTCH LOKS
	3756499	1	CONTROL BOX MOUNT
	EG50	2	RUBBER GROMMET
	6151074	2	BOLT 3/8" x 1 <sup>3</sup> / <sub>4</sub> " HEX HEAD
	6151073	2	BOLT 3/8" x 1 1/2" HEX HEAD
WINCH TO BULL BAR	4581040	4	WASHER FLAT M10
	4581048	4	WASHER SPRING M10
	6151022	2	BOLT M8 x 25mm
	6151132	2	NUT FLANGE M8
	4581044 180302	2 6	WASHER FLAT M8 CABLE TIES
	6522749	1	PANEL WINCH COVER
WINCH COVER	6151256	2	SCREW M6 X 16MM BUTTON HEAD S/S
	6151128	2	NUT FLANGE M6
(NOT FITTING WINCH)	6191006	1	EXTRUSION WINCH COVER
	4581304	2	WASHER FLAT M6 S/S
	3757959	1	BRACKET STONE TRAY
STONE TRAY BRACE TO	6151022	2	BOLT M8 x 25 mm LONG
IMPACT ABSORBERS	4581044	2	WASHER FLAT M8
	4581046 6151301	2 2	WASHER SPRING M8 CAGE NUT M8
	3757958R&L	1PR	BRACKET INTERCOOLER SUPP. LWR
INTERCOOLER SUPPORT	3758029R&L 6151022	1PR 4	BRACKET INTERCOOLER SUPP. UPPR BOLT M8 x 25 mm LONG
BRACKETS (DIESEL ONLY)	4581044	4	WASHER FLAT M8
BRACKETS (DESEE ONET)	4581046	4	WASHER SPRING M8
	6151132	4	NUT FLANGED M8
	4681331	2	STRAP BRACE LOWER
	6151022	4	BOLT M8 x 25 mm LONG
BRACE LOWER STRAP	4581044	4	WASHER FLAT M8
	4581046	4	WASHER SPRING M8
	6151132	4	NUT FLANGED M8
	6522750	1	STONE TRAY
	6151300	7	CAGE NUT M6
STONE TRAY TO BULL BAR	6151213	7	BOLT M6 x 20 BZ
	4581082	7	WASHER FLAT M6 x 20 BZ
	4581287	7	WASHER SPRING M6 BZ

	6522751L&R	1	PANEL WING UNDER SIDE
	6151300	6	CAGE NUT M6
	6151213	6	BOLT M6 x 20 BZ
	4581082	6	WASHER FLAT M6 x 20 BZ
WING UNDER PANELS TO BULL	4581287	6	WASHER SPRING M6 BZ
BAR	6151022	2	BOLT M8 x 25 mm LONG
	4581044	2	WASHER FLAT M8
	4581046	2	WASHER SPRING M8
	6151301	2	CAGE NUT M8
	180302	8	CABLE TIES
PINNING BOLT HARDWARE	6151357	4	BOLT SEMS M10 x 25 mm LONG
	6151321	4	NUT FLANGE M10
MISCELLANEOUS	180302	6	CABLE TIES
	6191020	2	PINCH WELD NARROW 400mm LONG
	3787063	1	TEMPLATE BUMPER CUT

PREPARATION TO VEHICLE	
	<ol> <li>Remove licence plate from the vehicle and set aside</li> <li>With scissors cut out the bumper cutting template along designated cutting line as shown</li> </ol>
Wheel arch       Top edge of bumper	<ul> <li>3. Fit the template to the RHS of the bumper aligning with the wheel arch, top edge of the bumper and the head lamp lower corner and tape in position</li> <li>NOTE: View shows already cut bumper</li> <li>.</li> </ul>
Mark cutting line with marker pen	<ul> <li>4. Mark the cutting line around to the front face of the bumper</li> <li>5. Remove the cutting template from the RHS, reverse it and reposition it on the LHS, tape in position and mark cutting line.</li> <li>.</li> <li>.<!--</th--></li></ul>

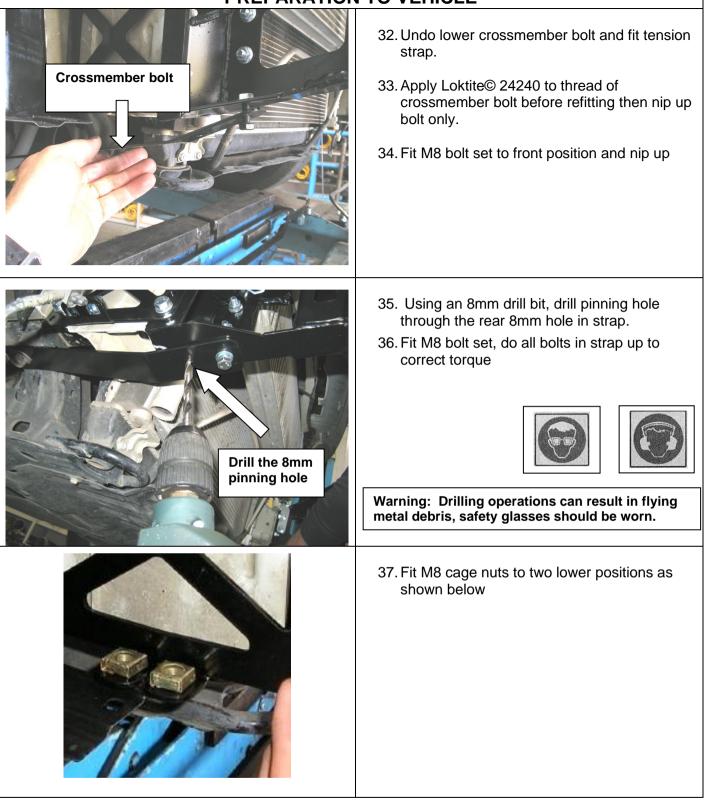


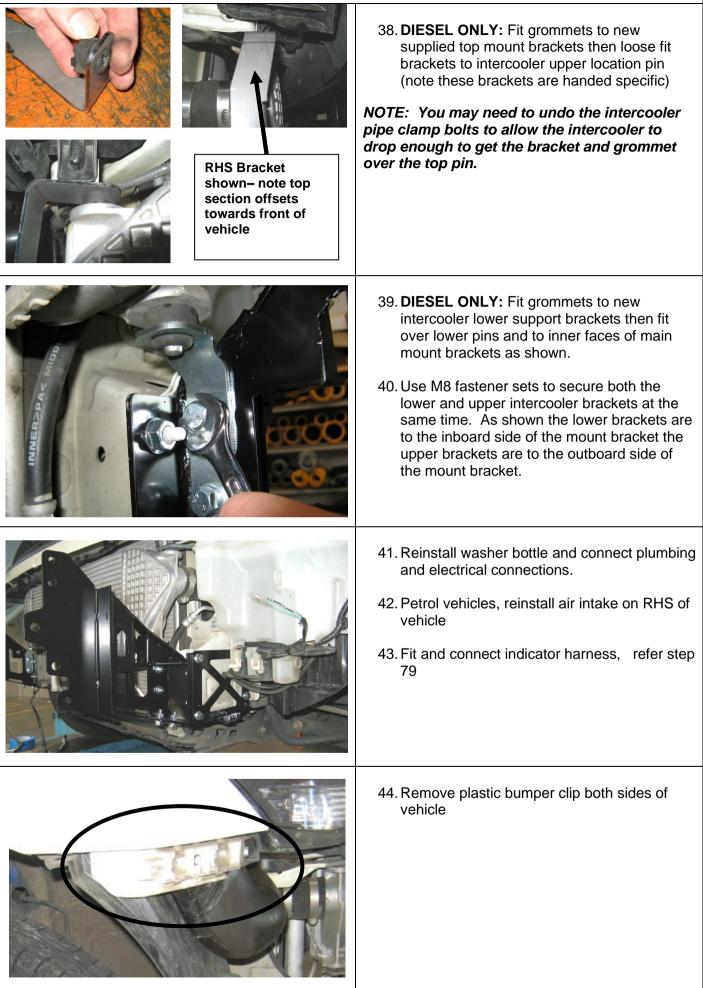
PREPARATION TO VEHICLE		
	<ol> <li>Remove the two bolts and screw or plastic clip from the fender opening area each side that attaches the bumper bar to the plastic inner guard liner as shown.</li> <li>Remove the screws securing the fender liners to bumper in the forward wheel arch areas</li> </ol>	
	13. Remove the top panel and grille – prise out plastic clips along the top first, then pull outwards and upwards to release lower clip points along the lower section of grille attaching to top flange of the bumper	
	14. Remove bolts and plastic clips securing bumper to cross member.	

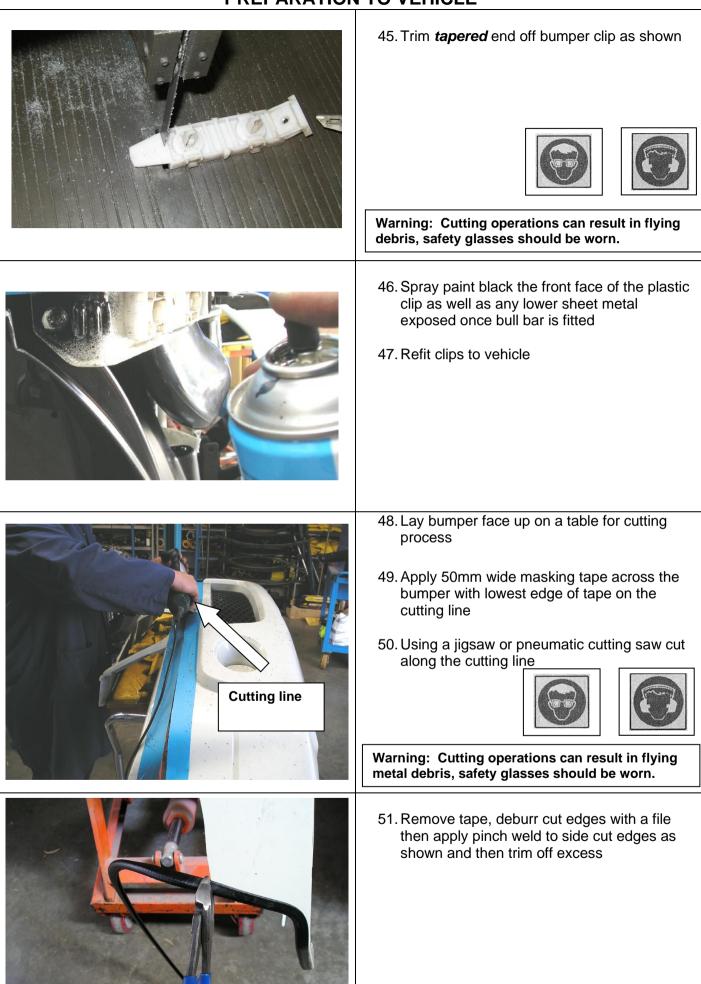


PREPARATION TO VEHICLE		
10mm MIN. Mark this cutting line 13 mm	<ul> <li>21. DIESEL ONLY: Mark out and carefully notch out side of <i>lower</i> mount position <i>both</i> sides to clear mount brackets by 13mm as shown using an air hack saw or similar.</li> <li>Warning: Cutting operations can result in flying metal debris, safety glasses should be worn.</li> </ul>	
	22. Remove air intake on the RHS of vehicle	
	23. Fit mounting brackets using supplied brackets and nut and washer kits	
The second secon	<ul> <li>24. Measure inside dimension across mount flanges and adjust bracket side ways position so that there will be a slight amount of clearance to the bull bar uprights, (785mm) when bull bar is fitted later on. Once in position tension to specified torque</li> <li>NOTE: The mount bracket flanges fit outside the bull bar uprights</li> </ul>	

### PREPARATION TO VEHICLE 25. Grind out access hole in lower chassis as shown, both sides of vehicle, just enough so the cage nut on access plate can be inserted for top pinning hole on brace 26. Paint around the bared edges to prevent corrosion Warning: Cutting operations can result in flying metal debris, safety glasses should be worn. Using an 8mm drill bit, drill holes through 27. the side of vehicle chassis using the top and lower rearmost holes in brace as a guide. Drill the 8mm pinning Warning: Drilling operations can result in flying holes metal debris, safety glasses should be worn. 28. Fit M8 cage nut to extension plate, insert through hole in chassis and secure top pinning position with M8 bolt and washer set 29. Bend the protruding extension plate until it breaks off 30. Fit M8 fastener set to lower bolt pinning position 31. Repeat for other side of vehicle Tension to specified torque HINT: Apply a couple of bends to the plate so that once the nut plate is inserted into the access hole, the cage nut will then sit nicely against the side of the chassis wall for easy insertion of the M8 bolt thread.







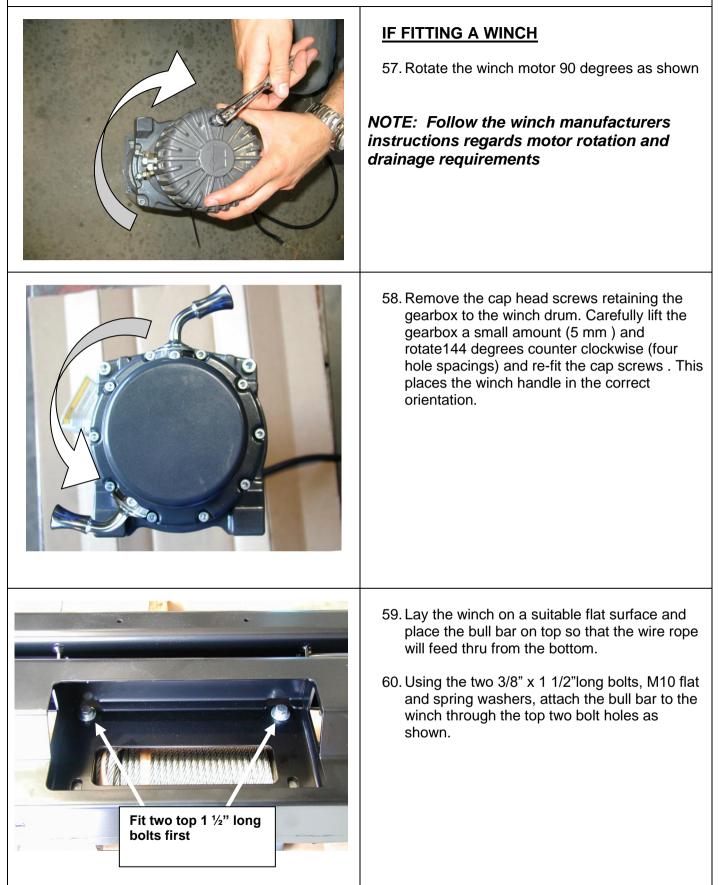




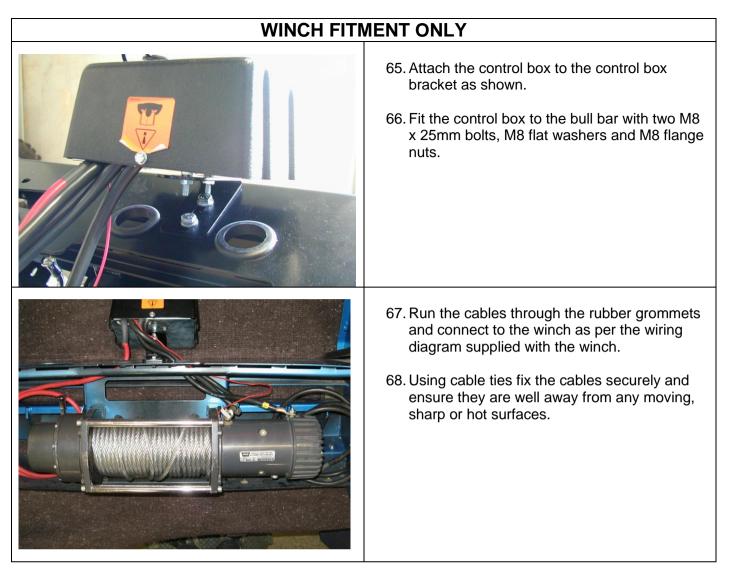
52. Fit bumper back onto vehicle

BULL BAR PREPARATION	
	<ul> <li>53. Fit the buffers to either side of the bull bar using 6 x M6 flange nuts. Do not over tighten.</li> <li>54. Fit M6 cage nuts to four holes in lower pan flange. The nut bodies are inside the bull bar</li> </ul>
	IF NOT FITTING A WINCH 55. Apply rubber mould to edge of winch hole cover panel and trim off excess.
	<ul> <li>56. Fit panel to top face on bull bar using 2 x M6 dome head stainless steel screws, flange nuts and stainless steel flat washers.</li> <li>NOTE: The stainless steel flat washers are to be sandwiched between panel and top face of bull bar to stop the panel pulling down to form depression around screw heads.</li> </ul>

#### WINCH FITMENT ONLY



WINCH FITMENT ONLY		
	61. Using a 12mm drill bit, mark & drill two new holes in the roller fairlead 25mm below the original holes.	
	<ul> <li>metal debris, safety glasses should be worn.</li> <li>62. Remove the cir clips from the bottom of the vertical rollers of the fairlead and push the pin upwards. Push the vertical rollers inwards on the lower edges as shown and using two 3/8" x 1 <sup>3</sup>/<sub>4</sub>" bolts M10 flat and spring washers, attach the lower section of the roller fairlead to the bull bar and winch.</li> <li>63. Replace the cir clips on the vertical rollers on both sides.</li> </ul>	
	64. Insert the two rubber grommets into the top face of bull bar.	





# 69. With assistance guide the bull bar into position on the vehicle. The uprights on the bull bar sit inside the impact absorber blades.

- 70. Bolt the bull bar into position using the M12 bolts, spring washer, large body washer and flange nuts 3 places each side as shown.
  Tighten the bolts firmly but allow enough movement for the bull bar to be adjusted
- 71. If winch fitted route cables up into the engine bay and secure.



	<ul> <li>78. Assemble and install combination light surrounds (p/n 3163015) as per instructions no. 3786421 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>79. Wire the combination lamp to the vehicles indicator and clearance lamp wiring. <i>Caution: Cable tie all cables together and keep all cables clear of sharp edges and moving parts.</i></li> <li><i>Wiring:</i> Green wire is Turn signal + (pos) Red is running lamp + (pos) Black is - (neg)</li> </ul>
M8 bolt here only	<ul> <li>80. The wing under panels can now be fitted.</li> <li>81. Fit M6 cage nuts to the inside of the wings lower flanges, 3 places per wing, also to the lower inside of the pan.</li> <li>82. Fit the wing panels as shown and secure with M6 bolt and washer sets and M8 bolt and washer set to position on side brace to chassis</li> </ul>
Flanges face rearward	<ul> <li>83. Fit M6 cage nuts to the top side of the rear flange on the stone shield bracket</li> <li>84. The stone shield cross brace can now be fitted using an M8 bolt and washer set to the vacant position in front of the wing panel M8 fixing bolt.</li> <li>85. Nip up only both sides.</li> </ul>



- 86. The stone shield can now be fitted using M6 bolt and washer sets
- 87. Once fitted tighten all M6 and M8 fasteners on the bracket and stone shield.

- 88. The licence plate can now be attached to the bull bar. Insert the two plastic square plugs supplied into the two square holes in the face of the bull bar.
- 89. If winch fitted, position the licence plate as shown fastening top picture using lower holes. If winch not fitted use the top row of holes, licence plate is positioned lower and covers RFL opening in front of bull bar, lower picture.
- 90. Using the two dome head screws supplied screw into position firmly.

91. Trim the outer edge of the fender liner as shown so that it will clip in behind the wing, then trim off the bottom of the liner flush with the lower face of the wing panel



- 92. Push the outer edge of the liner forward past the wing return edge so that it snaps in place
- 93. Drill Dia 7 holes in fender liner to fasten with cable ties to holes in flanges of wing under panes then fasten with cable ties and cut off cable tie excess.

#### 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 turn signal lamps are functioning correctly

#### FITTED PRODUCT

