

# Part Number:3434170 ARB COMBINATION WINCH & NON WINCH DELUXE BULL BARSuited toMITSUBISHI PAJERO "NS" 4 DOOR FLARED GXL, VRX AND EXCEEDvehicle/s:FITTING KIT # 6172463 \*\*\*\*\* NOTE: EXCEED HEADLAMP WASHERS<br/>ARE NOT COMPATIBLE WITH THIS PRODUCT

## **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 AND SPANNER SETS	POWER DRILL DIA 13.0mm(1/2") CAPACITY
POWER HACKSAW OR JIG SAW	DRILL BITS DIA 7.0 & 10.5,
LARGE "G" CLAMP	PHILIPS AND FLAT BLADE SCREWDRIVERS
TAPE MEASURE	MASKING TAPE
STANLEY KNIFE	SMALL ANGLE GRINDER AND CUTTING WHEEL
WHITE AND BLACK MARKER PENS	PIN PUNCH
HAMMER	

### 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	
	3757510R	1	BRACKET IMP ABS ASSY	
	3757510L	1	BRACKET IMP ABS ASSY	
	3757508R	1	BRACKET CHASSIS INBOARD	
	3757508L	1	BRACKET CHASSIS INBOARD	
MOUNT BRACKETS TO VEHICLE	3757509R	1	BRACKET CHASSIS OUTBOARD	
MOONT BRACKETS TO VEHICLE	3757509L	1	BRACKET CHASSIS OUTBOARD	
	3199915	6	PLATE CAGE NUT	
	6151302	6	CAGE NUT M10	
	6151357	16	BOLT SEMS M10 X 30mm	
	6151321	10	NUT FLANGED M10	
FIT BULL BAR TO MOUNT	6151357	8	BOLT SEMS M10 X 30mm	
BRACKETS	6151321	8	NUT FLANGED M10	
	3756209	1	BRACKET CONTROL BOX	
FIT CONTROL BOX TO BULL BAR	6151021	2	BOLT M8 X 20mm	
	4581044	2	WASHER FLAT M8	
	6151132	2	NUT FLANGE M8	
	3751451	1	BRACKET NUMBER PLATE	
NUMBER PLATE TO WINCH BAR	6151017	4	BOLT M6 X 16mm	
	6151046	4	WASHER FLAT M6	
	6151128	4	NUT FLANGE M6	
NUMBER PLATE TO NON-WINCH	6151384	2	SCREW	
BAR	6821189	2	GROMMET	
	6151213	6	BOLT M6 X 20mm BZ	
FENDER LINER RE-FASTENING	4581082	6	WASHER FLAT M6 LG BZ	
	6151128	6	NUT FLANGE M6	
	6521036	1	COVER WINCH	
FIT WINCH COVER TO BULL BAR	6191005	1	EXTRUSION COVER WINCH	
IN NON-WINCH APPLICATION	6151256	2	SCREW BUT HD ST STL M6 X 16mm	
	6151046	2	WASHER M6	
	6151128	2	NUT FLANGE M6	
	6821151R	1	INDICATOR ASSEMBLY RH	
	6821151L	1	INDICATOR ASSEMBLY LH	
INDICATORS TO BULL BAR	180302	6	CABLE TIES	
	6821152	2	LOOM	
	180701	6	SCOTCH LOCKS	
LIGHT SURROUND ASSEMBLY	3163015	1	LIGHT SURROUND KIT	
	180302	2	CABLE TIES	
BUFFERS	3162470R	1	BUFFER 260X230	
	3162470L	1	BUFFER 260X230	
UNDER WING PANS	6151128	12	NUT FLANGE M6	
	6522714R	1	UNDER WING PAN RH	
	6522714L	1	UNDER WING PAN LH	
	4581082	10	WASHER M6	
	4581287	10	SPRING WASHER M6	
	6151213	10	SCREW M6 X 20 BZ	
	6151300	10	CAGED NUT M6	

SIREN MOUNT	3758030	1	BRACKET SIREN MOUNT
	6151303	3	NUT CAGED M8
	4581307	3	WASHER FLAT M8 BZ
	4581047	3	WASHER SPRING M8 BZ
	6151262	3	BOLT M8 X 20 BZ
	6191014	2	PINCH WELD @ 330mm
	3783282	1	CUTTING TEMPLATE BUMPER
MISCELLANEOUS	4581040	2	WASHER FLAT 3/8" (RFL)
MISCELEANEOUS	6151074	2	BOLT 3/8" X 1 ¾" (RFL)
	180302	6	CABLE TIES
	6151128	12	NUT FLANGED M6

### **OPTIONAL LIGHT SETS TO SUIT THIS PRODUCT:**

- ARB 6821201 FOG LAMP SET
- Up to IPF 900 SERIES FOG OR DRIVING LIGHT SETS

### **OPTIONAL WINCHES WHICH FIT THIS BULL BAR:**

• WARN 8000, 9000 AND 9.5XP

### \*\*\* NOTE:

> WASHER JET FOR HEADLAMPS, AS FITTED TO EXCEED WILL NOT BE ABLE TO OPERATE WITH BAR IN POSITION.

BUMPER REMOVAL		
	1.	Remove stone tray
	2.	Remove plastic scrivets and bolts securing lower bumper tabs.
	3.	Remove screws securing fender liner to bumper and bumper bracket in wheel arch area. Remove liner and bumper retaining brackets.
	5.	Undo vertical screws securing bumper to fender

BUMPER	REN	IOVAL
	6.	Remove scrivets securing grille across the top and pull grille upward to release lower clips.
	7.	Remove upper bumper retaining scrivets.
	8.	Remove number plate.
E C C C	9.	Remove scrivets behind number plate position
	10.	Free the end of the flare from the bumper by pulling outward in the lower region as shown.

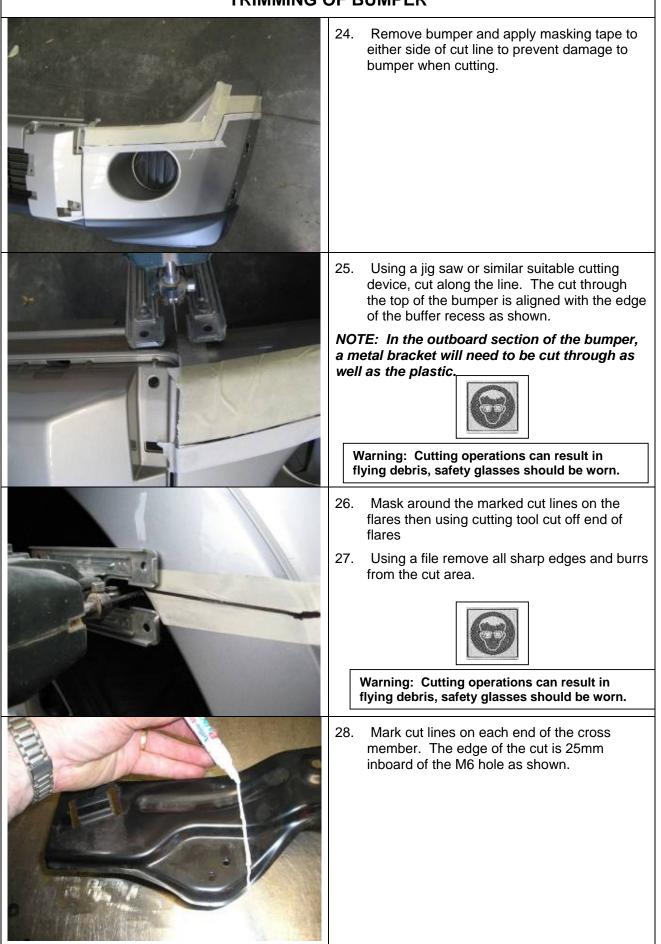
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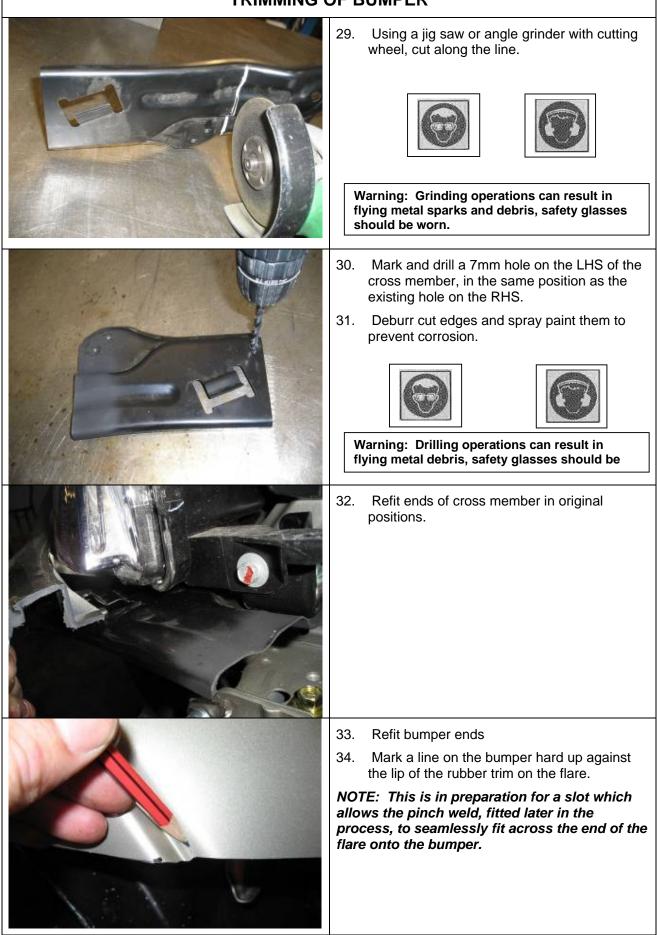
BUMPER	REM	IOVAL
	11.	With flare loose to bumper, pull the bumper end outward and forward to release it from the holding bracket on both sides then remove bumper entirely.
	12.	Place bumper on soft non abrasive surface as the upper part will be reused and should not be damaged.
	13.	Undo upper cross member fasteners as shown on both ends as shown.
	14.	Remove cross member central fasteners then set aside.
	15.	If fitted, remove fog lamps including trim rings and set aside.

BUMPER REMOVAL		
	16.	Remove the two buffer blocks from the bumper. Fixing screws are accessed from rear of bumper as shown.
	17.	If washer assemblies fitted (circled for reference in picture), remove and set aside.
	18.	Place bumper back on vehicle including securing wing area of bumper into retaining clips.

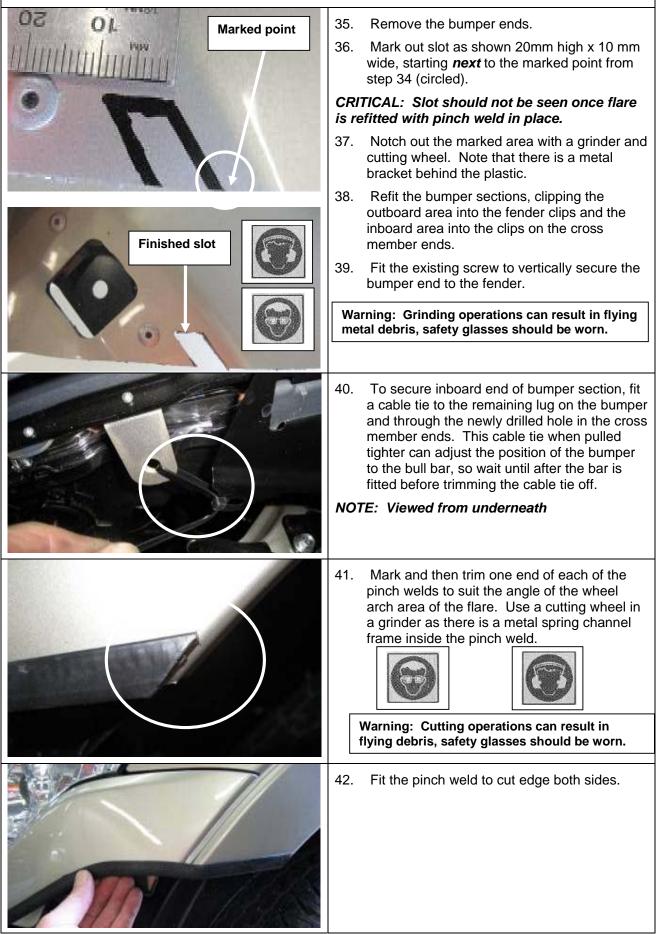
	19.	To familiarise yourself with the cut line location, do a dry run placing template in position on RHS of vehicle. Note key alignment points to headlamp lower corner, distance to horizontal cut line from lower bumper edge and fender rubber trim edge. Spot mark ends of cut lines to flare and inboard end of cut line to bumper face.
	20.	Remove template from vehicle and cut along designated cut line, also if required in various other areas to assist aligning to vehicle, as shown.
	21.	Refit template to vehicle and mark cut line (LHS shown).
INBOIL T	22.	Using a spirit level continue marked cut line onto flare.
	23.	Follow steps 21 and 22 on other side of vehicle.

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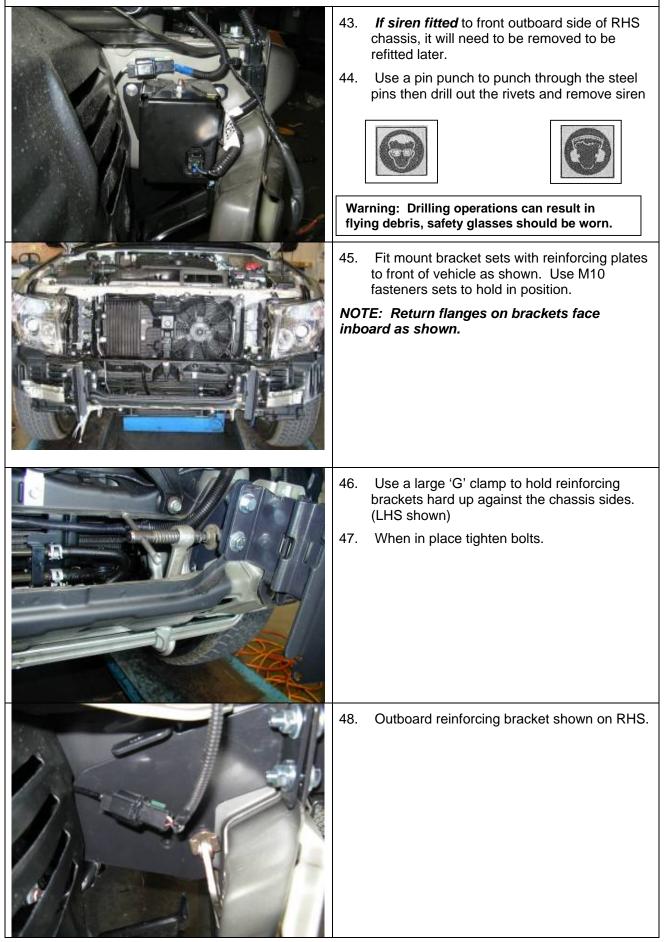


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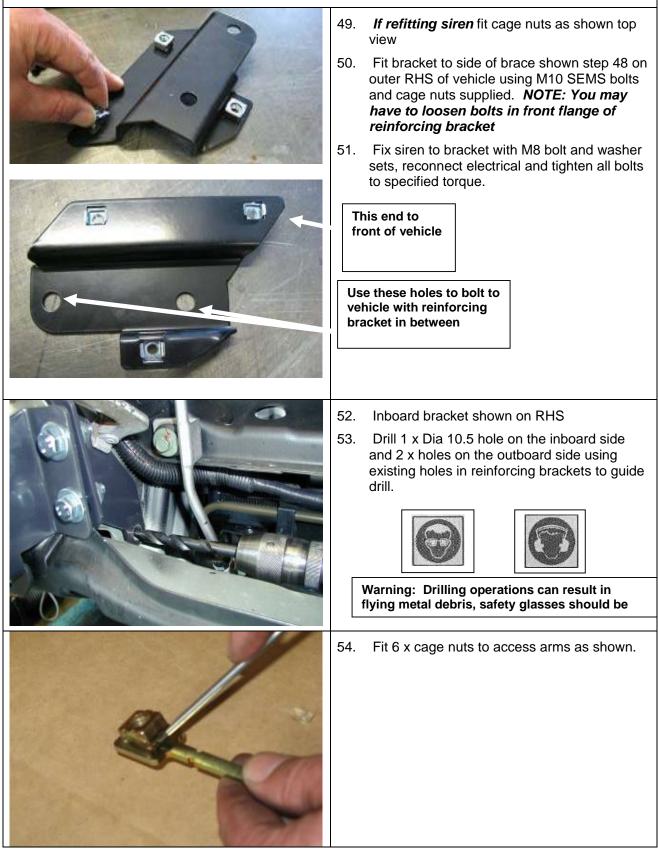
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### FIT MOUNT BRACKETS

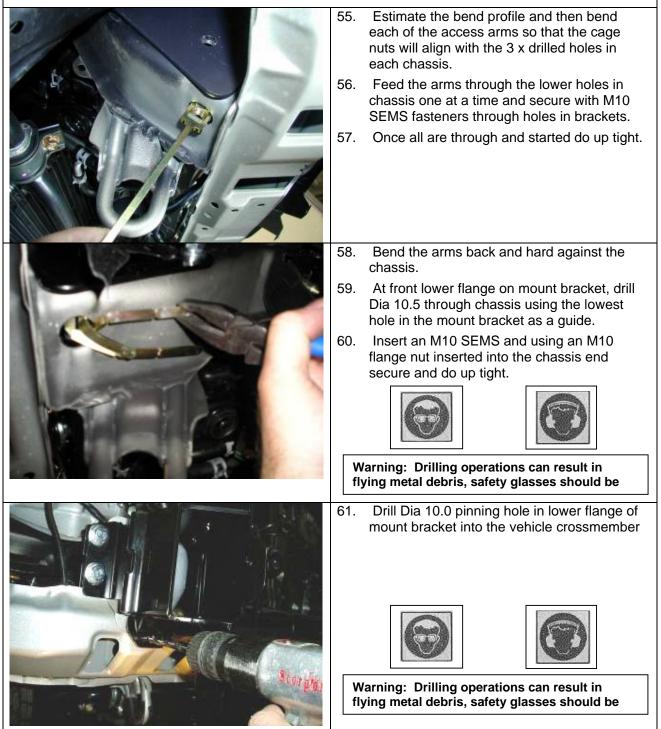


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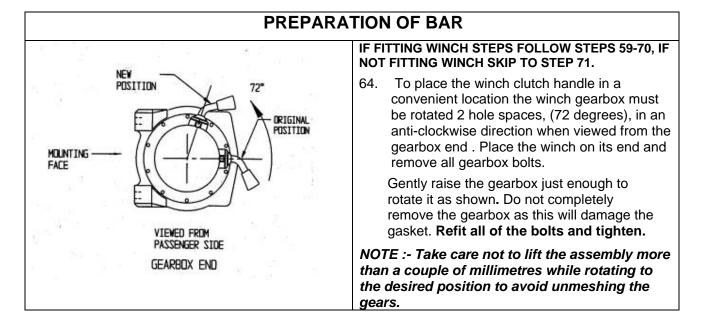
### FIT MOUNT BRACKETS

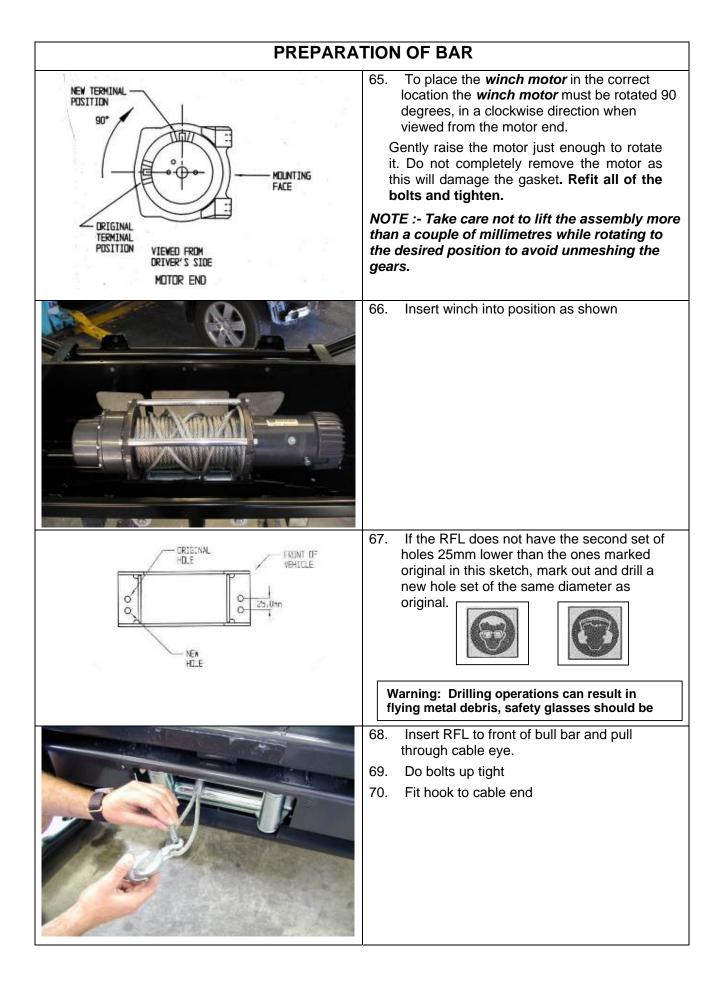


### FIT MOUNT BRACKETS



# <image> Fit MOUNT BRACKETS Service fit M10 SEMS bolt and load flange nut from inside cross member then do up tight. Service fit M10 SEMS bolt and load flange nut from inside cross member then do up tight. Service fit M10 SEMS bolt and load flange nut from inside cross member then do up tight. Service fit M10 SEMS bolt and load flange nut from inside cross member then do up tight. Service fit M10 SEMS bolt and load flange nut from inside cross member then do up tight. Service fit M10 SEMS bolt and load flange nut from inside cross member then do up tight. Service fit M10 SEMS bolt and load flange nut from inside cross member then do up tight.





PREPARA	TION OF BAR
71.	72. Fit control box bracket
<image/>	<ul> <li>73. Fit control box</li> <li>74. Connect the winch control box cables to the winch motor. Refer to the Warn handbook for additional information. Connect the long winch + &amp; - cables to the vehicle after the bar is installed. Refer to the Warn winch manual for vehicle wiring instructions.</li> <li>CAUTION: All wiring must be securely cable tied clear of any hazardous or potentially hazardous working areas of the winch and must not be exposed to sharp edges or susceptible to fretting.</li> <li>75. Fit number plate bracket as shown using M6 hardware.</li> </ul>
	<ul> <li>76. Fit number plate located as shown using M6 hardware.</li> <li><i>Note: ARB combination bull bar shown</i></li> </ul>

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PREPARATION OF BAR		
	<ul> <li>77. Insert the side buffers through the holes and fix using the M6 flange nuts.</li> <li>NOTE: If fitting top tube use buffers that have a hole in the top.</li> </ul>	
	<ul><li><i>IF NOT FITTING WINCH</i></li><li>78. Fit 2 x large round head grommets to front face of bull bar in square holes.</li></ul>	
BUIM	79. Fit number plate using black dome head screws inserted into grommets.	
	80. Apply rubber mold to edge of winch hole cover panel and trim off excess.	

PREPARA	TION OF BAR
	<ol> <li>Fit panel to top face on bull bar using 2 x M6 dome head stainless steel screws, flange nuts and flat washers.</li> </ol>
	NOTE : The 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.
	82. Support bull bar on lift device if available or with the help of one or more assistants lift the bull bar into position on the mount brackets.
	Note: ARB combination bull bar shown
	83. Bolt up bull bar to mount brackets using M10 SEMS and flange nuts but do not tighten.
	<ol> <li>Adjust position of bull bar so that there is an even 15mm clearance to the underside of the fender.</li> </ol>
15mm	85. Tighten up M10 SEMS and flange nuts
	86. Drill pinning holes using Dia 10.5 drill through existing holes in mount bracket lower flange area.
	87. Insert M10 SEMS and flange nuts and do up tight.
	Warning: Drilling operations can result in flying metal debris, safety glasses should be
	worn.

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IT BAR TO VEHICLE	
	88. Tuck fender liner into inside rear of wing flange.
	<ul> <li>89. Drill holes in fender liner using Dia 7.0 holes in wing return flanges as a guide and fasten fender line with 4 x M6 black bolts, washers and flange nuts.</li> <li>Warning: Drilling operations can result in flying debris, safety glasses should be worn.</li> </ul>
	<ul> <li>90. Drill hole in fender liner and cross beam as shown and secure liner with M6 black bolts, washers and flange nuts.</li> <li>Image: The second s</li></ul>
	91. Carefully, using a sharp knife or hacksaw trim off the fender liner co-incidental with the lower edge of the cross beam.

### FIT BAR TO VEHICLE

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FIT BAR TO VEHICLE		
Dulux	92. Using a black spray pack, paint the exposed color coded area of the cross beam so it does not show.	
	<ul> <li>93. Refit grille, loading vertically, noting that there are pins on the lower section, which align with holes in the top face of the bull bar.</li> <li>94. Refit stone tray removed at step 1</li> <li>95. Check that the indicators are not rubbing on the cut edge of the bumper, if so, locally trim the bumper edge.</li> <li>96. Remove indicators from cartons and then remove screws and speed nuts from each light. These fasteners are not to be reused – new screws are supplied in the fitting kit</li> </ul>	
	<ul> <li>97. 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>98. Wire the combination lamp to the vehicles indicator and clearance lamps.</li> <li>CAUTION: Cable-tie all cables together and keep all cables clear of sharp edges and all moving parts.</li> </ul>	

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### FIT BAR TO VEHICLE



99. Fit the M6 cage nuts to the under wing pans and fit to the underneath of each wing using M6 x 16 Hex bolts, M6 Washers and M6 Spring Washers.

NOTE:

- Connect wiring to lights and winch. Refer to winch manufacturers installation instructions
- Check operation of all lights.
- Check winch operation