

Part Number:3446330F/KIT: 6173177Product<br/>Description:COMBINATION BULL BAR NON FLAREDSuited to<br/>vehicle/s:MITSUBISHI TRITON 2009 ON

## 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 you're 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

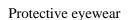
By choosing an ARB Bar, you have bought a product that is one of the most sought after 4WD products in the world. Your bar is a properly engineered, reliable, quality accessory that represents excellent value. To keep your bar in original condition it is important to care and maintain it following these 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.

HAVE AVAILABLE THESE SAFETY ITEMS WHEN FITTING PRODUCT:

#### **BASIC TOOL KIT**

JIG SAW OR KEY HOLE SAW





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	4lbft
M8	22Nm	16lbft
M10	44Nm	32lbft
M12	77Nm	57lbft

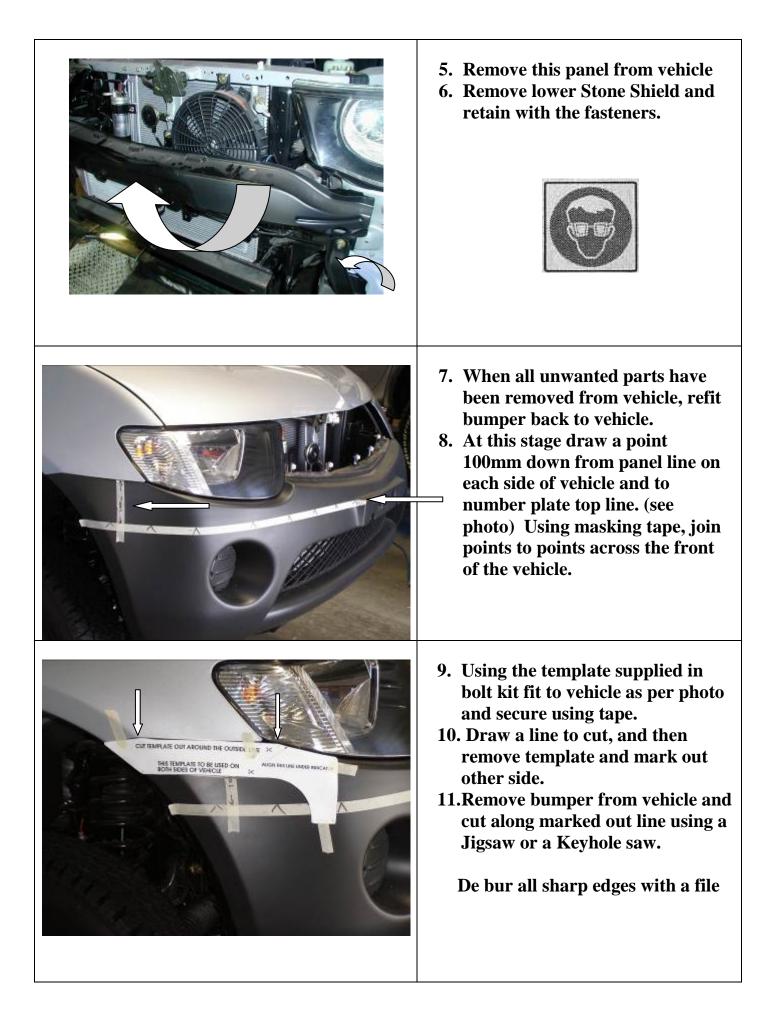
#### **OPTIONAL LIGHT SETS TO SUIT THIS PRODUCT:**

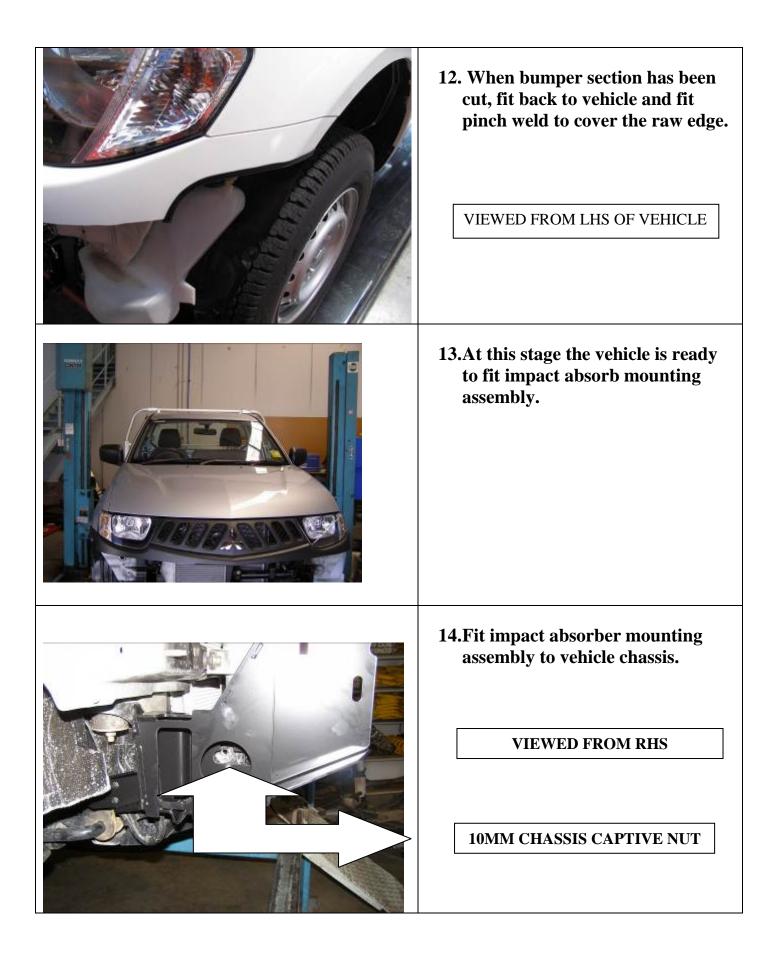
#### **Up to IPF 900 SERIES FOG OR DRIVING LIGHT SETS**

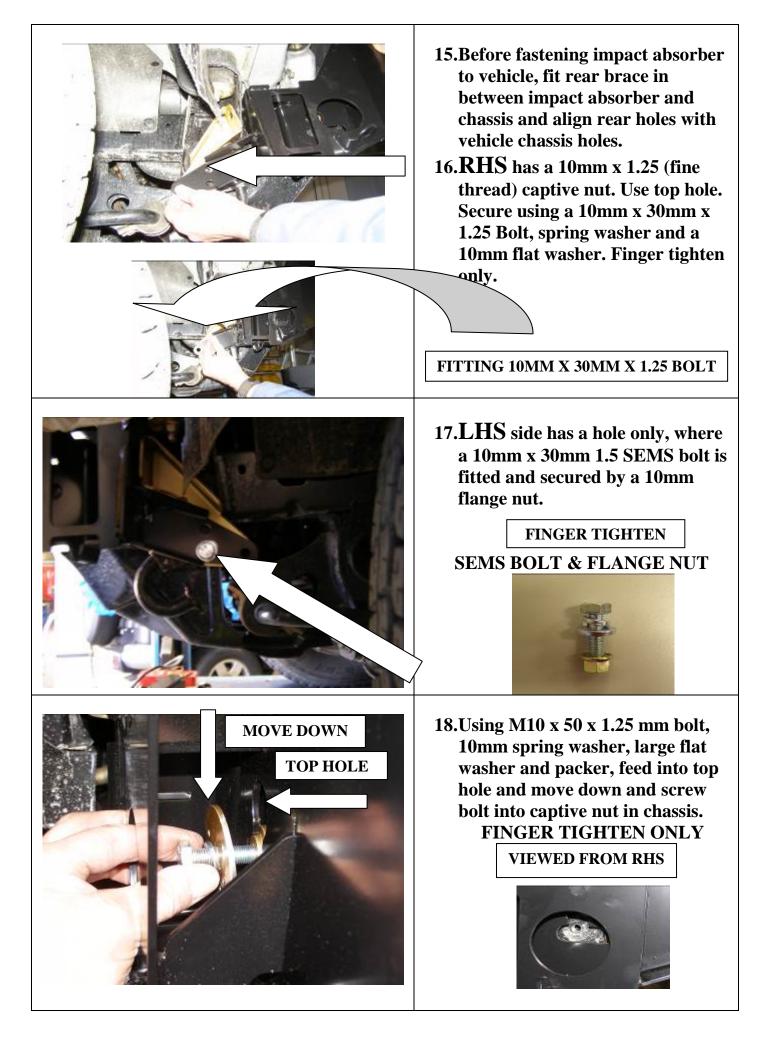
USE	PART No	QTY	DESCRIPTION
IMPACT ABSORBER	6151357	7	BOLT M10 x 1.5 x 30mm SEMS ASSY
MOUNTING SYSTEM	6151090	2	BOLT M10 X 1.25 X 50mm
	6151040	1	BOLT M10 X 1.25 X 30mm
	4581040	1	WASHER FLAT M10
	4581048	3	WASHER SPRING M10
	4584291	2	WASHER CLAMPING
	3756925	1	MOUNT ASSEMBLY
	5848329 6151321	2 7	PACKER LOCATING NUT M10 FLANGE
	6151021	2	BOLT M8 X 20mm
	4581044	$\frac{2}{2}$	WASHER FLAT M8
	4581046	2	WASHER SPRING M8
	6151132	2	NUT FLANGE M8
	3756929 L/R	2	BRKT REAR EXTENSION BRACE
BULL BAR TO	6151357	4	BOLT M10 x 30mm SEMS ASSY
IMPACT ABSORBERS	6151360	6	BOLT M12 X 1.75 X 35 COARSE PITCH
	4581007	6	WASHER FLAT M12 X 37 X 4
	4581050	6	WASHER SPRING M12
	6151428	6	NUT FLANGE M12
	6151321	4	NUT FLANGE M10 X 1.5
	3788084 3194353	1	TEMPLATE TO CUT FRONT BUMPER
	6151021	22	PACKER PLATES BOLT M8 x 20mm
CONTROL BOX BRACKET	4581044	$\frac{2}{2}$	WASHER FLAT M8
CONTROL DOX DRACKET	3751564	1	CONTROL BOX BRACKET
	6151132	2	NUT FLANGE M8
NUMBER PLATE BRACKET	6151180	4	BOLT M6 x 20mm (BRACKET TO BAR)
	6151046	4	WASHER FLAT M6 x 13mm
	6151128	4	NUT FLANGE M6
	3751313	1	NUMBER PLATE BRACKET
	6151384	2	SCREW PAN HD (NON WINCH BAR)
	6821189	2	GROMMET ROUND
INDICATORS TO	6151308	4	SCREW SELF TAPPING 25
BAR	6821116	4	GROMMET NYLON SNAP IN TYPE
	6821151R	1	INDICATOR RHS
	6821151L 6821152	1 2	INDICATOR LHS TURN SIGNAL / CLEARANCE LIGHT LOOM
	180701	6	SCOTCH LOK
AIR DEFLECTOR	6522664	1	AIR DEFLECTOR
AIR DEFLECTOR	6151262	3	BOLT M8 X 20mm BLACK
	6151301	3	NUT CAGED M8
	4581075	3	WASHER FLAT M8 x 20mm BLACK
	4581047	3	WASHER SPRING M8 BLACK
	6151213	4	BOLT M6 X 20MM BLACK
	4581082	4	WASHER FLAT M6
	4581287	4	WASHER SPRING M6
	6151300	4	NUT CAGED M6
UNDER WING PANEL	6151213	8	BOLT M6 x 20mm BLACK
	4581082	8	WASHER FLAT M6 BLACK
	4581287	8	WASHER SPRING M6 BLACK
	6151300 6151301	8 4	NUT CAGED M6 NUT CAGED M8
	6151262	4	BOLT M8 X 20MM BLACK
	4581075	4	WASHER FLAT M8 BLACK
	4581047	4	WASHER SPRING M8 BLACK
	6522841R/L	2	PAN WING NON FLARE
	3758191	2	BRACKET ADJUSTABLE WING UNDER PANEL
MISCELLANEOUS	6191025	2	PINCH WELD
	BLB 600	1	BATTERY LEAD 600MM BLACK
WINCH FITMENT	180302	8	CABLE TIES
	6151073	2	BOLT 3/8" X 1 <sup>1</sup> /2"
	6151074	2	BOLT 3/8" X 1 <sup>3</sup> /4"
	4581040	4	WASHER FLAT M10
	EG50	2	GROMMET RUBBER

#### ASSEMBLY SEQUENCE FOR BULL BAR INSTALLATION. PLEASE READ AND UNDERSTAND FITTING INSTRUCTIONS BEFORE ATTEMPTING TO FIT BAR TO VEHICLE

<ol> <li>To fit a bar to vehicle, the plastic bumper, grill panel has to be cut.</li> <li>The bumper will be cut later when it is removed from vehicle.</li> </ol>
3. Remove grill and plastic bumper panel, from front of vehicle.
4. Remove bumper brackets from vehicle RHS, loosening off washer bottle LHS, remove bracket and retighten washer bottle.



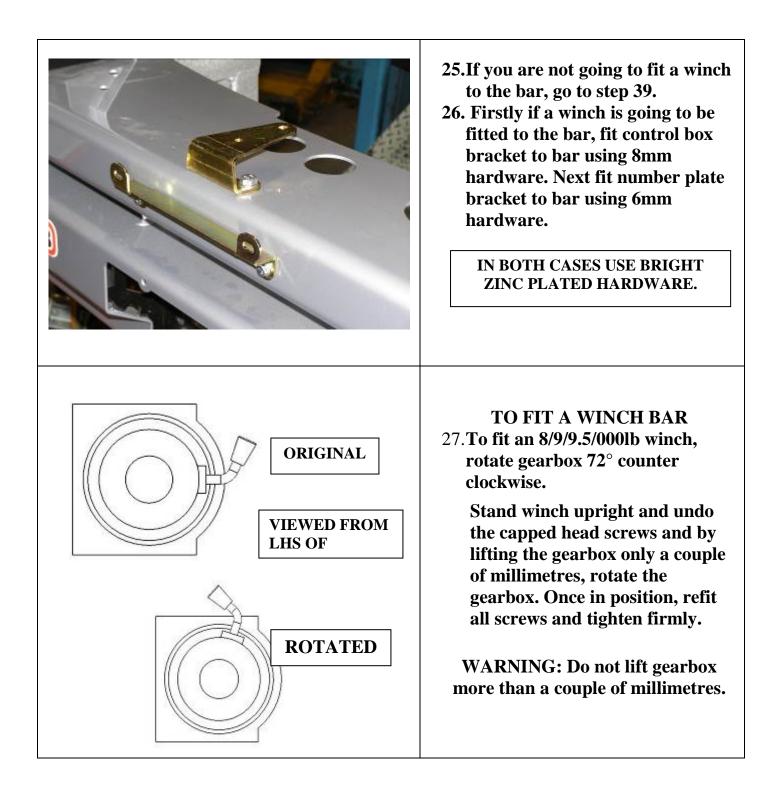


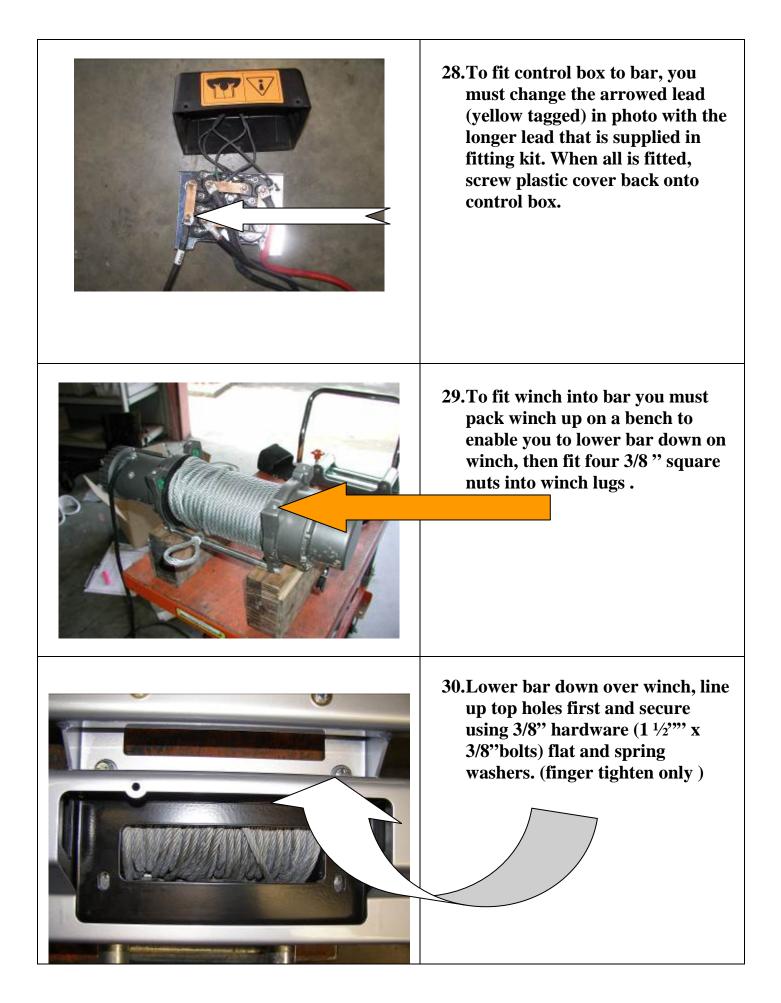


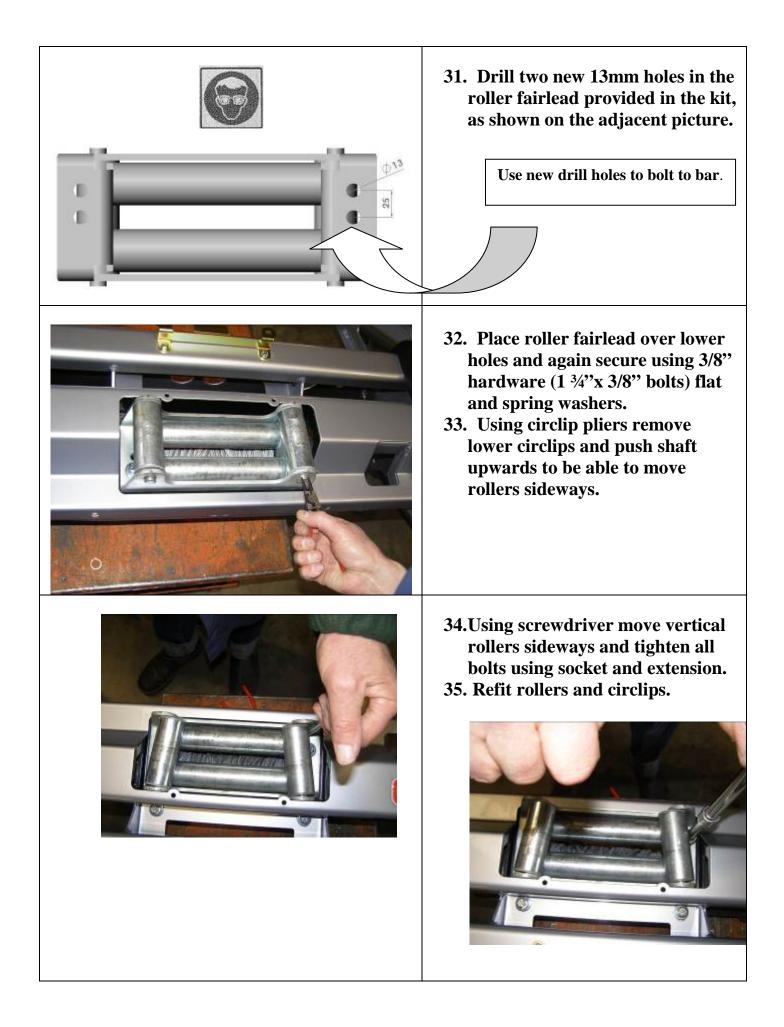
	<ul> <li>19. With the side and rear bolts fitted, fit the most rearward bolts to each side of the vehicle. Tighten all six bolts to specified torque.</li> <li>NB. Before tightening, make sure that the two flanges are touching the body mount.</li> <li>MOST REARWARD BOLT RHS</li> </ul>
<image/>	<ul> <li>20.Using a 10mm drill bit, drill holes through chassis cross member, using holes in mount as a template.</li> <li>21.Secure using 10mm X 30mm SEMS bolts, 10mm flange nuts. When the two bolts are fitted, tighten to specified torque.</li> </ul>
<image/>	22.Using a long 10mm drill bit, drill through vehicle body mount using hole in mount as a template, secure using 10mm X 30mm SEMS bolt,10mm flange nut. When both sides of vehicle are done, tighten to specified torque.

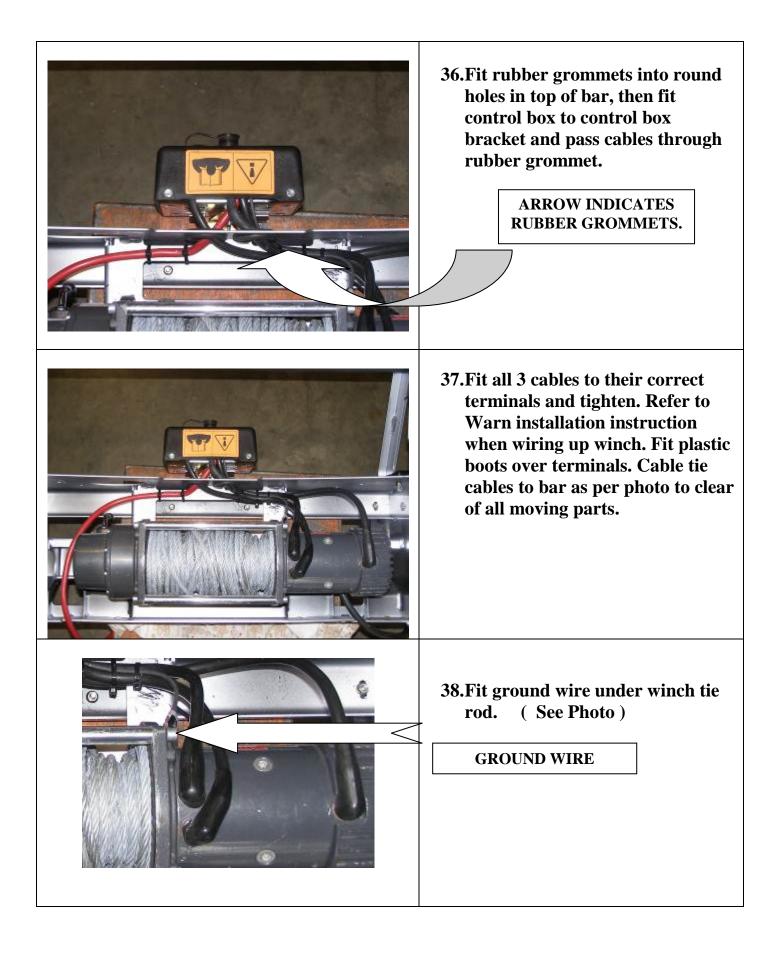
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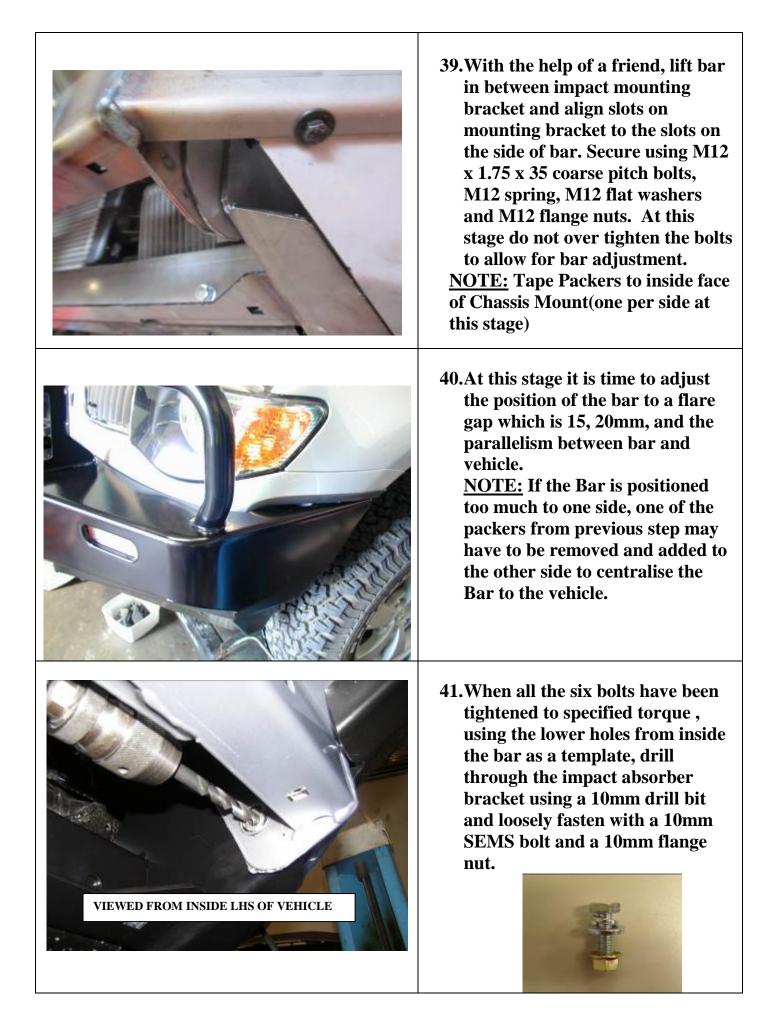
BMM HARDWARE	23.Lastly, fit M8 x 20mm bolt, spring washer, flat washer and 8mm flange nut to mounting assembly and tighten firmly. USE BRIGHT ZINC M8 HARDWARE
	24.When impact absorber is securely bolted to vehicle, fit 8mm caged nuts to mounting assembly. SEE PHOTOS FOR PLACEMENT OF CAGED NUTS, 5 IN TOTAL.
<section-header></section-header>	25.Fit 6mm caged nuts into lower flange of centre section of bar, 4 in total.



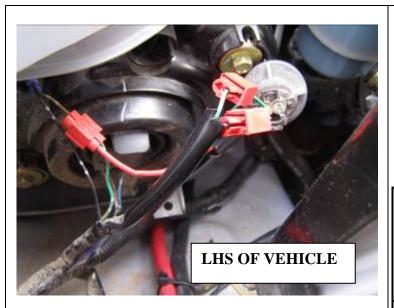








	<ul> <li>42. To drill the upper pinning bolt mark the upright using the hole in the mount assembly as a template, then remove the bar and drill a 11mm hole at the marked point.</li> <li>43. Then replace the bar and line up all of the bolt holes and fasten using the appropriate bolts pin the upper hole with a M10 SEMS bolt and flange nut, tighten bolts to specified torque.</li> </ul>
Tewed From Inside LHs of Vehicle	44.When bar is secured to mounting bracket, connect winch cables to battery and cable tie cables together to clear of all moving parts.
LHS OF VEHICLE	45.Remove the fastening screws and nuts supplied with the turn signal/clearance lamps and replace these with the four screws provided in the kit. Fit the square plastic plugs into the mounting bracket in the wing. Fasten the lamps to the bar as shown. Drain Holes IMPORTANT The turn signal lamp is to the centre of the bar.



46.Pull indicator loom up into engine bay to scotch lok wiring onto vehicle indicator/clearance lamps

#### **Summary of Wire Connections**

FUNCTION	TURN	VEHICLE	E PARK LAMP
	SI	RIGHT	LEFT
	G		
	NA		
	L		
	H		
	AR		
	NE SS		
	55		
PARK	RED	GREEN/	GREEN/
LA		WHI	BROW
MP		TE	N
		VEHICLI	E INDICATOR
		RIGHT	LEFT
EARTH	BLACK	BLACK	BLACK
INDICATOR	GREEN	GREEN	GREEN

- <image>
- 47.Before fitting under wing surround panels to bar, you must cut back washer bottle tag 35mm to give clearance of panel.





PHOTO INSIDE VIEW OF LHS	51.Fit M6 caged nuts into both L/RHS of under Wing Panels. ( 4 per side )
	52.Fit wing panels using black M6 hardware as per photo to both sides of vehicle. ( 4 per side )
	<ul> <li>53.Now position the adjustable wing under panel bracket so that it aligns with the lower slot on the wing under panel and tighten the bracket in place.</li> <li>54.Then securely bolt the lower wing under panel to the adjustable bracket.</li> <li>Fit M8 black hardware as per arrow.</li> </ul>

