

#### Part Number: 3915040/050 F/Kit 6172323 Product **ARB SAHARA BAR**

Description: Suited to

vehicle/s:

# **TOYOTA LANDCRUISER 200 SERIES 2007 ON** 3915040 NO HLC & 3915050 WITH HLC (SAHARA)

# 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 ٠
- This product or its fixing must not be modified in any way. ٠
- The installation of this product may require the use of specialized tools and/or techniques ٠
- It is recommended that this product is only installed by trained personnel ٠
- 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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Fitting instructions# 3781218

# **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 8-25mm range	External Circlip pliers
Screwdrivers, Philips and Flat blade	Power Jigsaw with blade for plastic cutting
Short Body Power Drill 13mm (1/2") capacity	Dia 7.0mm (5/16") and 10.5mm (25/64") drill bits
Tin snips	Marking pen
Half round file	Soft Hammer
Metric hex key set	Loctite© 262 or equiv.
Wide masking tape	Stanley knife
Small Spirit Level	Tape Measure & 2 x 300mm rulers
If fitting parking sensors: Dia 22.0 (7/8") hole saw	Paint black fast drying

#### 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 Ibft
M6	9Nm	7lbft
M8	22Nm	16lbft
M10	44Nm	32lbft
M12	77Nm	57lbft

#### FASTENER TORQUE SETTINGS:

PARTS LISTING			
APPLICATION.	PART NO.	QTY	DESCRIPTION
Mount Brackets To Chassis	3757602R 3757602L 6151429 6151428 6151435 5846400	1 1 2 2 2 2 2	Bracket Mount RHS Bracket Mount LHS Chassis Stud M12 x 265 x1.75 Flange Nut M12 x 1.75 Nut Clevis Packer M12 x 8mm
Brace Assembly	4681274 6151357 6151321	1 7 7	Brace SEMS Bolt M10 x 1.5 x 30mm Nut Flanged M10 x 1.5
Bull Bar To Mount Bracket Assy	6151357 6151321 6151255 6151189 4581049 4581050	2 2 6 6 12 6	SEMS Bolt M10 x 1.5 x 30mm Nut Flanged M10 x 1.5 Bolt M12 x 1.75 x 40mm Nut M12 x 1.75 Washer Flat M12 Washer Spring M12
Stone Tray to Bull Bar	6522683 6151300 6151213 4581082 4581287 6151270 4721518	1 4 6 6 2 2	Stone Tray Nut Cage M6 Bolt M6 x 20mm Washer Flat M6 x 16 x 3 Washer Spring M6 Bolt M6 x 40 Spacer Tube 18mm
Winch To Bull Bar	3756499 6151234 4581045 4581047 6151132 180302 EG50 6151074	1 2 2 2 8 2 2 8 2	Bracket Control Box Univ. Bolt M8 x 25 Washer Flat M8 BZ Washer Spring M8 BZ Nut M8 Flanged Cable Tie Grommet Dia 50mm Bolt 3/8 x 1 3/4
Number Plate To Bull Bar	6821189 6151384 6781408	2 2 1	Grommet round Screw self tapping pan head Tape double sided
If Not Fitting Winch	6522695 6191013 6151256 4581304 6151128	1 1 2 4 2	Winch Panel Extrusion Screw M6 x 15 st stl Dome Head Washer M6 St Stl Nut Flanged M6
Wing Inner Panels	6522685R 6522685L 6151300 6151213 4581082 4581287 6151234 4581045 4581047 6151132	1 10 10 10 10 2 2 2 2 2 2	Panel Inner Wing RH Panel Inner Wing LH Nut Caged M6 Bolt M6 x 20 Blk Washer Flat M6 Blk Washer Spring M6 Blk Bolt M8 Washer Flat M8 Washer Spring M8 Nut M8 Flanged
Buffer fasteners	6151128	12	Nut M6 Flanged
Lights	3163015 6821151R 6821151L 6821152 180701 180302	1PR 1 1 2 6 6	Light Surround Set Indicator Indicator Loom Scotch Locks Cable Ties

	6191020	2	Trim Pinch Weld
	3786342	1	Template Bumper Cutting
	EG50	2	Grommet Dia 50mm
Miscellaneous	6151415	4	Cap Screw M10 x 40 ZP
	4581040	4	Washer Flat M10
	4581048	4	Washer Spring M10
	5868356	3	Packer

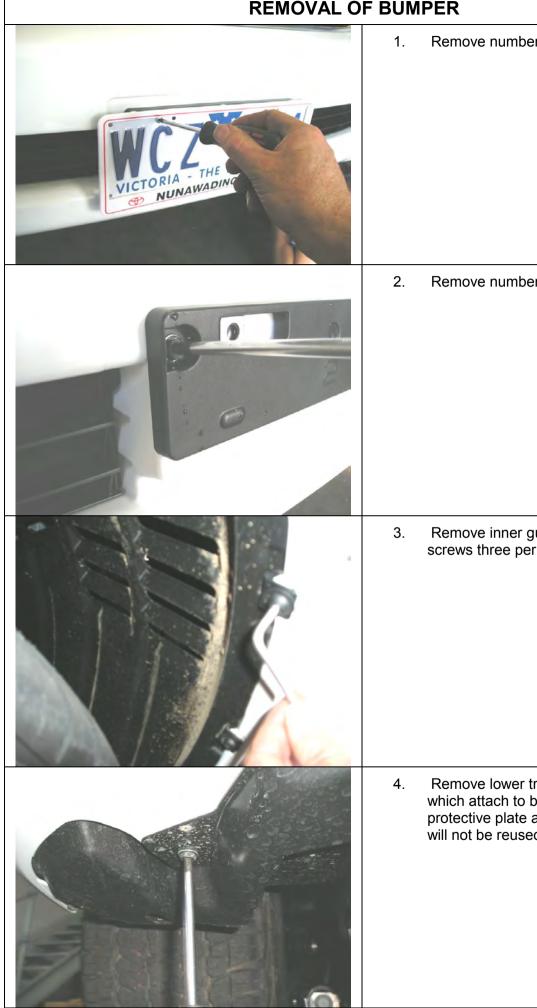
#### **OPTIONAL LIGHT SETS TO SUIT THIS PRODUCT:**

- FOG LAMP SET P# 6821201 ADD GXL ONLY P#MD02 LOOM KIT, P#180209 SWITCH AND P#180215 SWITCH CAP FOR FOGS
- UP TO IPF 900 SERIES FOG OR DRIVING LIGHT SETS
- IPF 840 FYS FOG LIGHTS CAN BE FITTED TO LOWER PAN AREA

#### AVAILABLE BUFFER/FRAME SETS:

- ♦ 5100140 BUFFER SET ONLY WITH FRAME HOLE
- 5100150 BUFFER SET ONLY BLANK
- 5115010 FRAME ASSEMBLY (NOTE: FASTENERS ARE WITH THIS BAR KIT)

### **REMOVAL OF BUMPER**

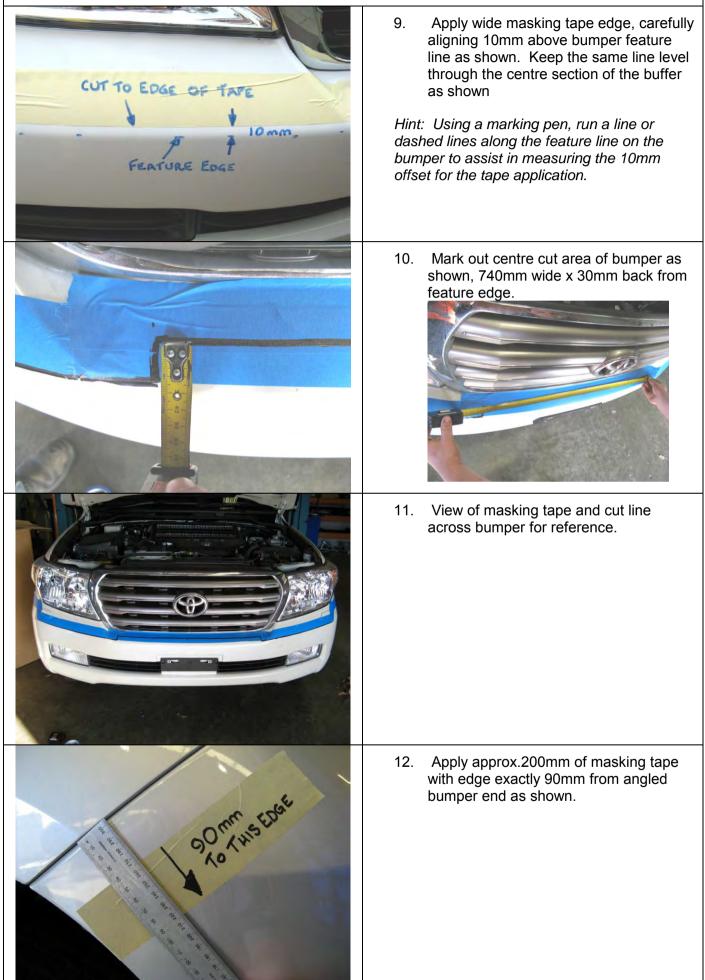


Remove number plate Remove number plate mount bracket Remove inner guard bumper retaining screws three per side using M4 hex key Remove lower trim panel sets each side which attach to bumper and engine protective plate area then set aside, they will not be reused.

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REMOVAL	OF BUMPER
	5. When removing lower trim panels, a plastic nut located on each side will need to be prized open with a small flat blade screwdriver to assist removal.
	6. Remove lower bumper retaining screws.
	7. Remove plastic engine bay cover above grille area and set aside. Prise open plastic plugs with small flat blade screwdriver or similar as shown.
	8. Remove 3 x retaining screws from top of grille

#### MASKING BUMPER FOR TRIMMING



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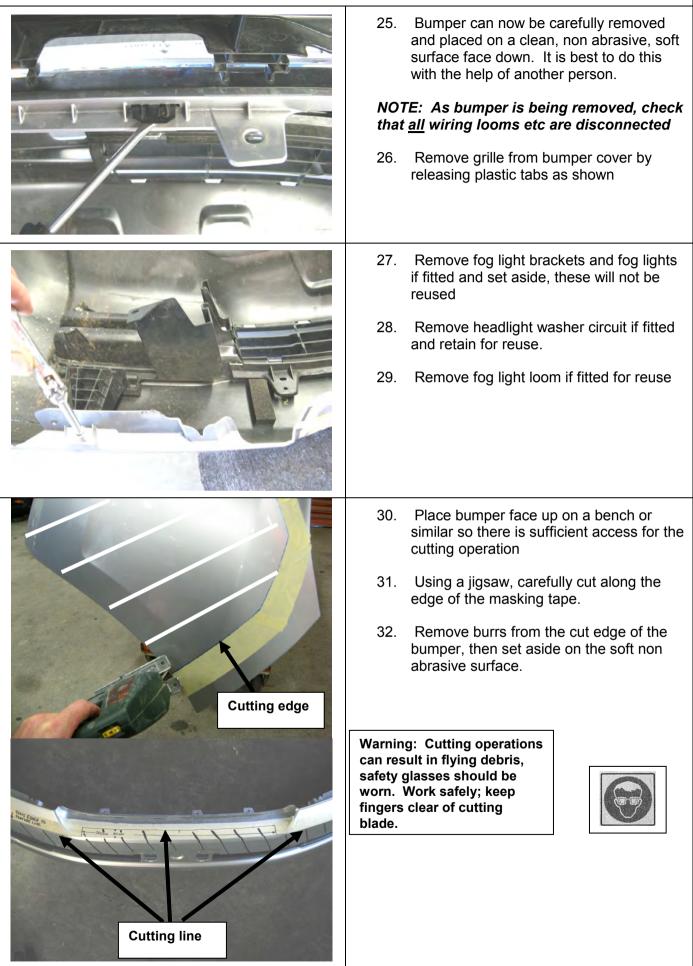
MASKING BUMPER FOR TRIMMING		
Aucor to server Aucor to server Aucor to server Aucor to server Aucor to server Carter to server To carter to server To se	<ul> <li>13. Cut A3 paper template along identified cutting line.</li> <li>NOTE: There is a scale on the sheet to confirm that the template is 1:1 scale, this is critical.</li> </ul>	
numero a numero e service constituente en esta de la constituente ente esta de la constituente	14. Apply template to outer corner of RHS bumper as shown aligning accurately to features such as the lower line of headlamp and end of bumper. Tape in position	
IS PART OUTUNE CUT OUT THIS PAPER CEREATE CUT OUSCISSORE INFORME	15. Transfer cutting line to bumper	
Cutting line Cutting line	<ol> <li>Apply masking tape aligning edge to marked cut line as shown</li> <li>Reverse template and apply to LHS of bumper and follow same steps as RHS.</li> <li>The bumper is now marked out for cutting.</li> </ol>	
	cutting.	

# **REMOVAL OF BUMPER**

	<ul> <li>19. Release top of grille. It is retained by 2 x push in spring clips, located at the outer top sections below the bolt position.</li> <li><i>Hint: You can use a small flat blade screwdriver to aid in pushing in spring.</i></li> </ul>
SQ mm stu	20. Pull outer returns of bumper outwards and out of retaining clips.
	21. If required push bumper down immediately below headlamp to gain access with a small flat blade screwdriver and release holding tab.
	<i>NOTE: Take care not to damage painted edge of bumper</i>
	22. Remove plastic plugs securing upper bumper tabs to cross member.
	23. If headlight washer system is fitted disconnect the main line from the vehicle to the bumper circuit and clamp/crimp it to prevent washer fluid from leaking out
	24. If factory fog lights are fitted, disconnect the fog light harness from the vehicle by opening the white flip over clip on the connector and releasing the loom plug

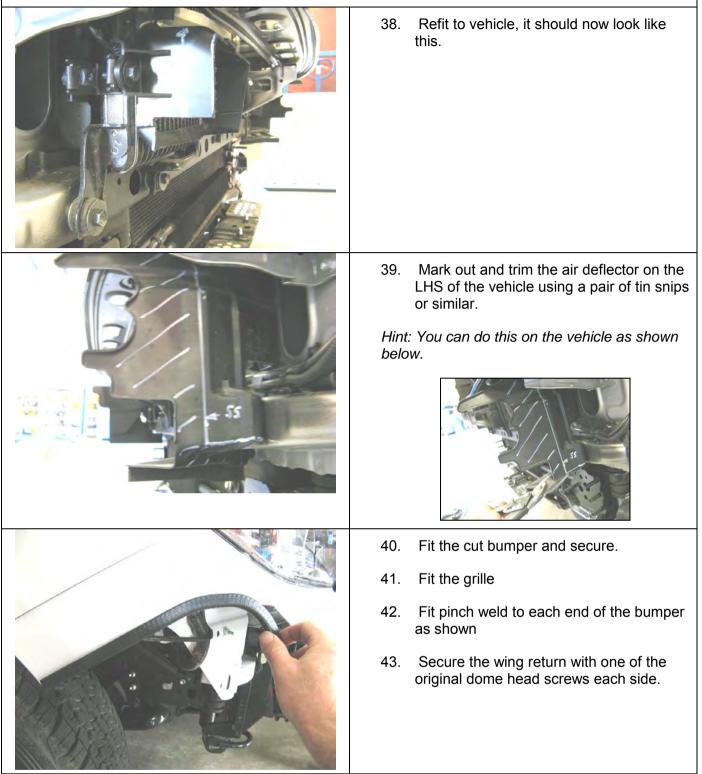
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#### **REMOVAL OF BUMPER Cont.**



PREPARATION FOR	R MOUNT BRACKETS
	<ul> <li>33. Remove foam absorber bar and set aside, this will not be reused</li> <li>34. Remove crash bar then beam mount brackets and set aside, retain only M10 flange nuts for reuse.</li> </ul>
	35. Remove tow hooks and set aside, these will be reused.
Mark line 60mm from front face, other lines as indicated	<ul> <li>36. Mark the lower section of the air scoop for the power steering radiator as shown. This is for trimming to clear the mount brackets.</li> <li>Note: The 60 mm line from front as indicated goes right over the top of the scoop and down the other side, then steps back in the same at 70mm from top, then back to 15mm and down as shown this side.</li> </ul>
	<ul> <li>37. Remove scoop and cut using jigsaw or similar and remove burrs.</li> <li>Warning: Cutting operations can result in flying debris, safety glasses should be worn.</li> </ul>

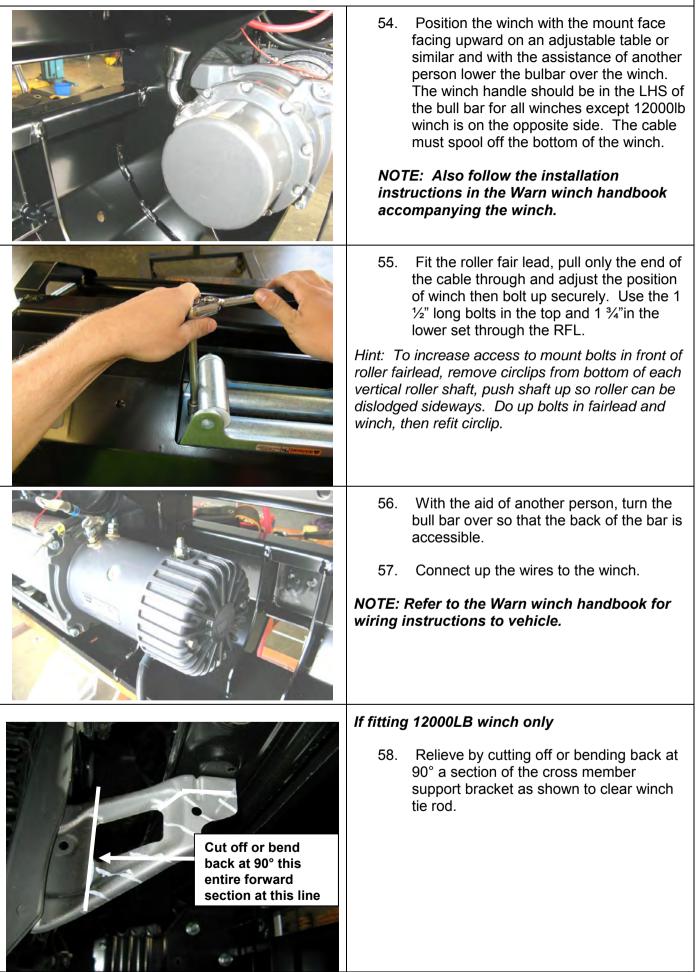
### PREPARATION FOR MOUNT BRACKETS



### PREPARATION OF BULL BAR

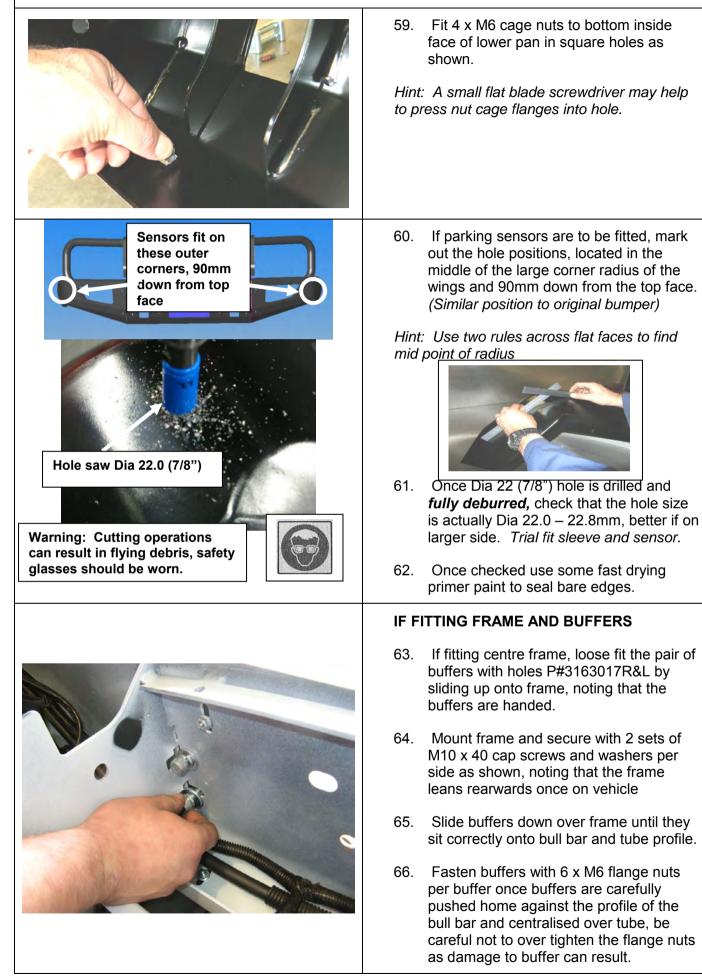
PREPARATION OF BULL BAR			
	44. Fit 2 x large rubber grommets to holes in uprights inside the upper area of the bull bar.		
	45. If fitting fog lamps, factory loom can be reused and routed through the grommets in uprights and along inside the lower lip of the top pan.		
	46. If headlight cleaner circuit is to be refitted, run hosing along the underside of the grille cross member, cable tie in position as shown		
	IF FITTING WINCH		
	47. Fit large grommets to holes in top pan		
	48. Fit control box bracket to control box studs as shown. <i>Picture also shows</i> <i>routing of leads through grommets in pan.</i>		
	49. Using M8 fasteners fit control box mounting bracket to pan		
	50. Prepare winch for fitting by undoing the cap screws on the gearbox end.		
ORIGINAL POSITION	51. Then rotate the end cap and gearbox in a counter clockwise direction 144° (four hole pitches) while looking down at the gearbox, as shown (for 12000lb winches rotate clockwise 144°)		
	52. Tighten the cap screws ensuring the gearbox handle operates freely.		
NEW POSITION	<ol> <li>Rotate the motor end 90° clockwise (elec. terminals will be up, see step 58)</li> </ol>		
	NOTE: Be careful not to lift the gearbox more than a few millimetres. Before doing up cap screws, ensure that the flange faces engage properly and gaskets are not damaged.		

#### PREPARATION OF BULL BAR



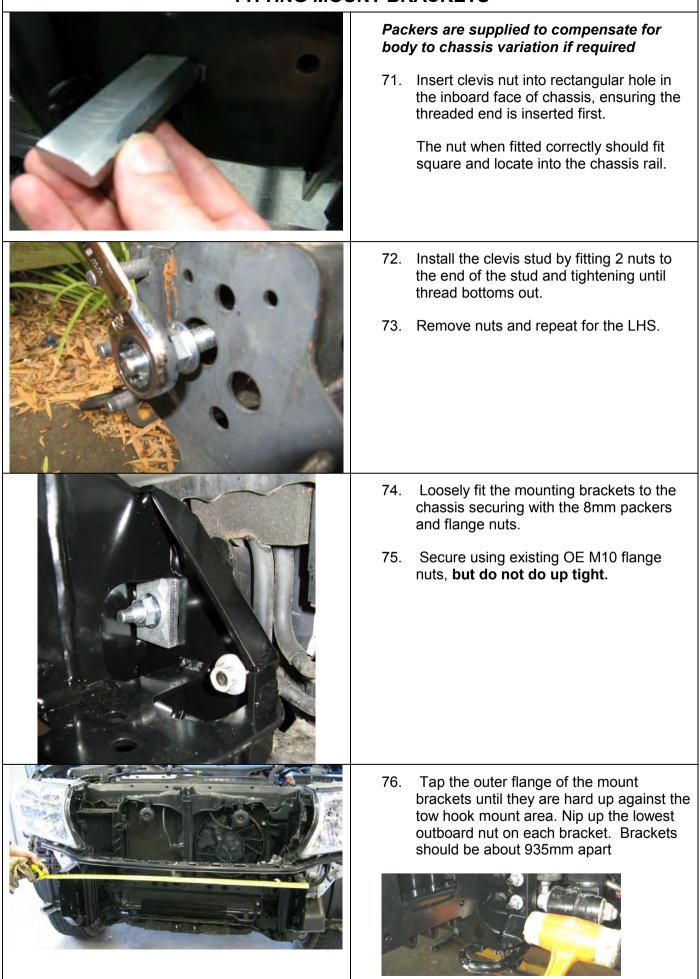
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#### PREPARATION OF BULL BAR

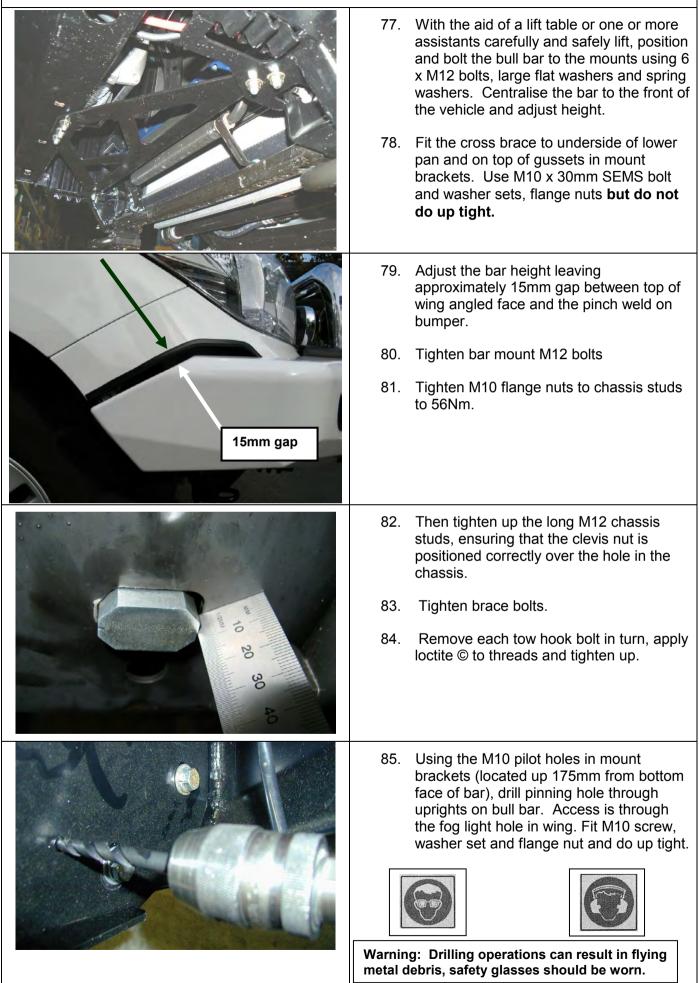


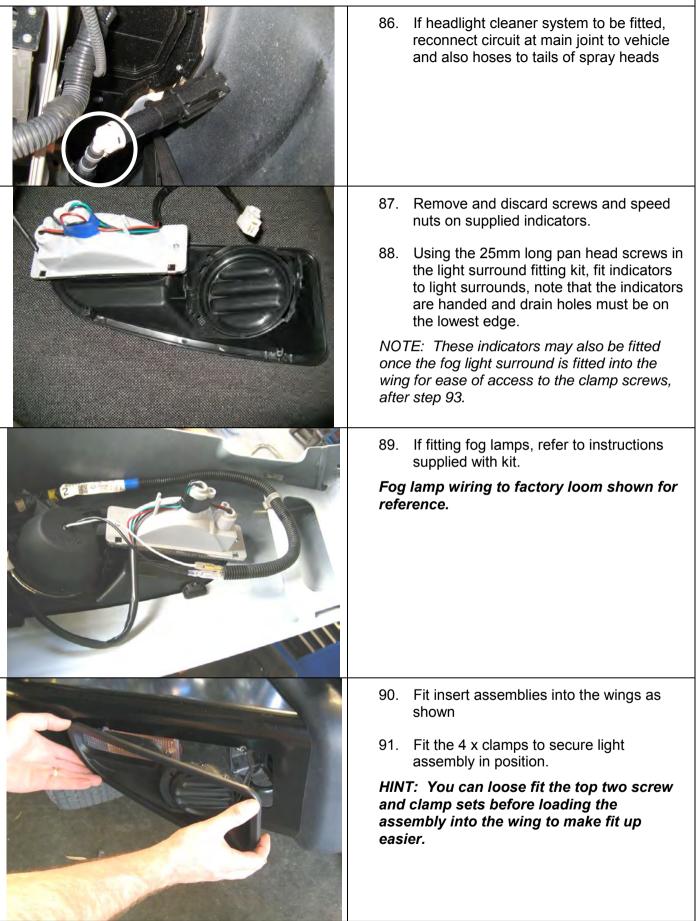
	IF FITTING BUFFERS ONLY
	<ul> <li>67. If fitting buffers only, fit the P#31631016R&amp;L buffers, noting that they are handed and ref the part numbers on the buffers</li> <li>68. Fasten with 6 x M6 flange nuts per buffer once buffers are carefully pushed home against the profile of the bull bar, be careful not to over tighten the flange nuts as damage to buffer can result.</li> </ul>
	IF NOT FITTING WINCH
Applying trim rubber, note the join is at middle of the rear of the plate or long side	69. Fit rubber extrusion to cover panel as shown starting and finishing at the centre of the large radius side which is the back then trim to length
	70. Fit the panel to the top of the bull bar as shown using M6 pan head stainless steel screws, M6 flat st stl washers and M6 flange nuts. Use 2 x M6 st stl flat washers as packers in between the panel and the top of the bull bar to stop the panel from dishing.
The narrower section of the plate is to front of bull bar	

#### FITTING MOUNT BRACKETS



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	92. Wire up indicators and parking lamps.		
Running lamp wiring	93. Connect red wire from supplied loom to green wire from running (parker) lamp. Connect black wire from supplied loom to white/black indicator wire. Connect green loom wire to green/yellow indicator wire.		
	94. Use supplied scotch locks for the electrical connections then secure wiring with cable ties when complete.		
Indicator lamp wiring	HINT: Temporarily undo the battery clamps and move batteries sideways to gain better access.		
	95. Wire up P# 6821201 ARB fog lamps if fitted.		
	NOTE: For GXL use ARB Loom MD02 plus switch, for VX and Sahara no extra loom or switching is required. Supplied tails can be joined to OE loom which is run through bull bar.		
	96. If parking sensors to be fitted, insert sleeves first noting that they must be in the same orientation as in the original bumper (tab to top RHS down on LHS).		
Check that sensor fits flush	97. Fit sensors checking that they are not too tight, otherwise correct operation may be affected (if tight check hole size and rectify as necessary)		
	98. Connect to main loom and cable tie wiring securely		
M6 thread in vehicle tray Spacer tube	99. Fit stone tray using 4 x M6 bolts and washer sets at front under bull bar and 2 x M6 x 40 bolts, washers and 18mm long tube spacers at two locations into existing sump guard front section as shown.		
	100. Fit off winch hook.		



#### NOTE:

- Check wiring connections to fitted lights and winch.
- Check operation of winch and all lights.
- Check operation of headlight washers if fitted
- Check operation of parking sensors if fitted
- IMPORTANT: Check that all piping and wiring is clear of sharp edges and pinch points. Adjust any piping to clear the bull bar or mounts by a minimum of 15mm.

