

Part Number:3415110/120 F/Kit 6172316Product
Description:ARB DELUXE WINCH BULL BARSuited to
vehicle/s:TOYOTA LANDCRUISER 200 SERIES 2007 ON,
Note: 3415110 NO HLC, 3415120 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.
- 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 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 lbft
M6	9Nm	7lbft
M8	22Nm	16lbft
M10	44Nm	32lbft
M12	77Nm	57lbft

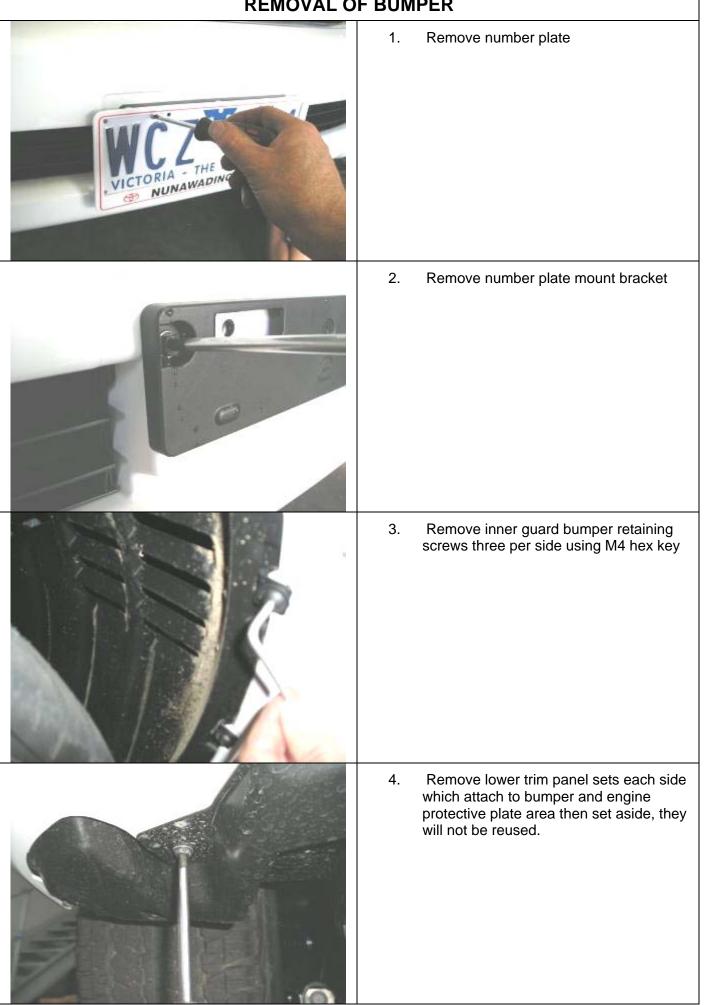
FASTENER TORQUE SETTINGS:

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

PARTS LISTING			
APPLICATION.	PART NO.	QTY	DESCRIPTION
Mount Brackets To Chassis	3757602R	1	Bracket Mount RHS
	3757602L	1	Bracket Mount LHS
	6151428	2	Flange Nut M12 x 1.75
	6151429	2	Chassis Stud M12 x 265 x 1.75
	6151396	2	Nut Clevis
	5846400	2	Packer M12 x 8mm
Brace Assembly	4681274	1	Brace
	6151357	7	SEMS Bolt M10 x 1.5 x 30mm
	6151321	7	Nut Flanged M10 x 1.5
Bull Bar To Mount Bracket Assy	6151357	2	SEMS Bolt M10 x 1.5 x 30mm
	6151321	2	Nut Flanged M10 x 1.5
	6151255	6	Bolt M12 x 1.75 x 40mm
	6151189	6	Nut M12 x 1.75
	4581049	12	Washer Flat M12
	4581050	6	Washer Spring M12
Stone Tray to Bull Bar	6522683 6151300 6151213 4581082 4581287 6151270 4721518	1 4 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 2 8 2 2 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	2	Grommet round
	6151384	2	Screw self tapping pan head
	6781408	1	Tape double sided
Wing Inner Panels	6522685R	1	Panel Inner Wing RH
	6522685L	10	Panel Inner Wing LH
	6151300	10	Nut Caged M6
	6151213	10	Bolt M6 x 20 Blk
	4581082	10	Washer Flat M6 Blk
	4581287	2	Washer Spring M6 Blk
	6151234	2	Bolt M8
	4581045	2	Washer Flat M8
	4581047	2	Washer Spring M8
	6151132	2	Nut M8 Flanged
Buffers	3163018R	1	Buffer
	3163018L	1	Buffer
	6151128	12	Nut M6 Flanged
Lights	3163015	1PR	Light Surround Set
	6821151R	1	Indicator
	6821151L	1	Indicator
	6821152	2	Loom
	180701	6	Scotch Locks
	180302	6	Cable Ties
Miscellaneous	6191019	2	Trim Pinch Weld
	3786342	1	Template Bumper Cutting
	EG50	2	Grommet Dia 50mm
	5868356	3	Packer

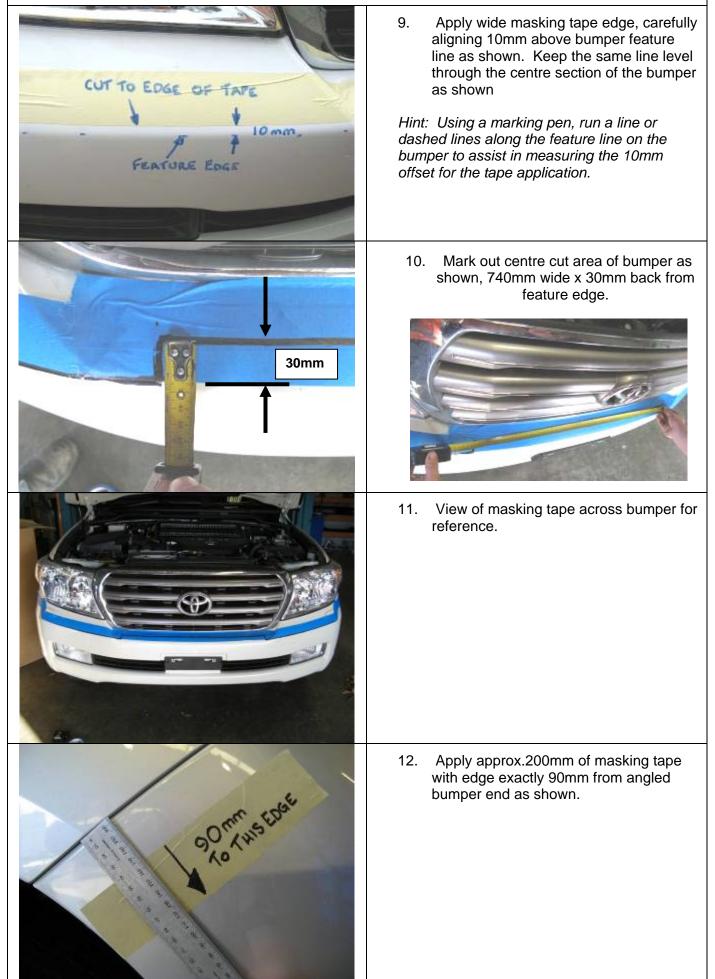
REMOVAL OF BUMPER



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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

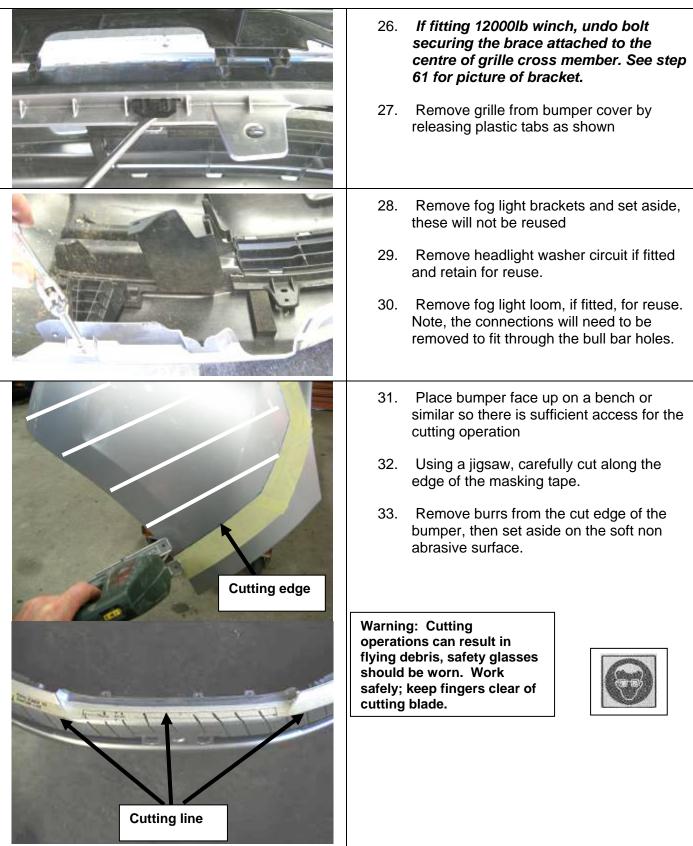


MASKING BUMPER FOR TRIMMING	
A A A A A A A A A A A A A A A A A A A	 13. Cut A3 paper template along identified cutting line. NOTE: There is a scale on the sheet to confirm that the template is 1:1 scale, this is critical.
un and and the set of	14. Apply template to outer corner of RHS bumper as shown aligning accurately to features such as the lower line of headlamp and end of bumper. Tape in position
IS PART APER COLUME	15. Transfer cutting line to bumper
Cutting line	 Apply masking tape aligning edge to marked cut line as shown Reverse template and apply to LHS of bumper and follow same steps as RHS. The bumper is now marked out for cutting.

REMOVAL OF BUMPER

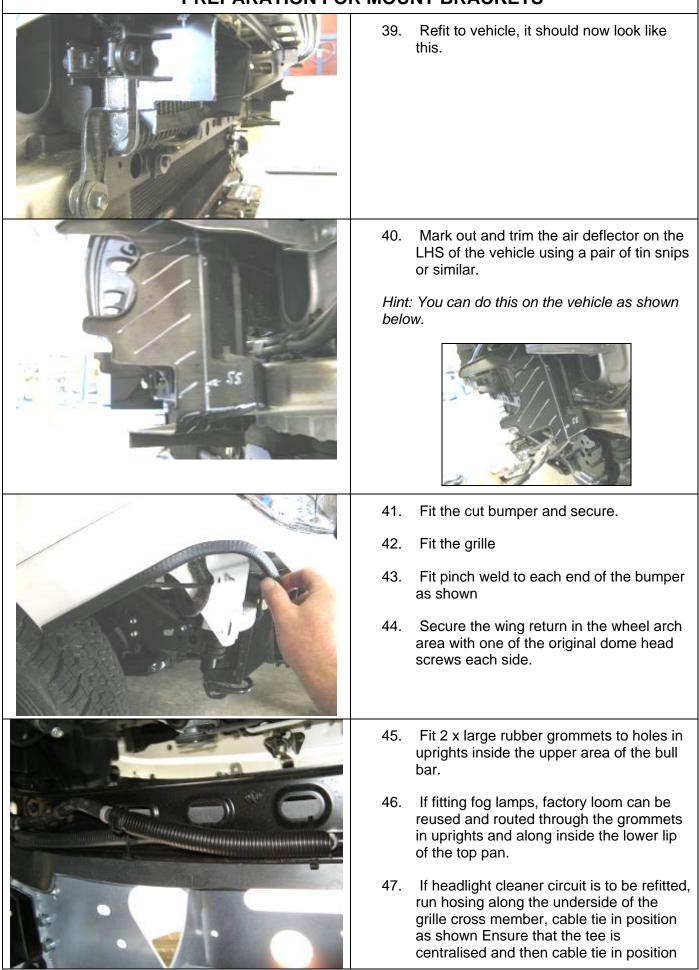
	 19. Release top of grille. It is retained by 2 x push in spring clips, located at the outer top sections below the bolt position. <i>Hint: You can use a small flat blade screwdriver to aid in pushing in spring. Fit spring clips back to grille plugs for easy replacement.</i> 	
20 mm str	20. Pull outer returns of bumper outwards and out of retaining clips.	
	 21. Push bumper down immediately below headlamp to gain access with a small flat blade screwdriver and release holding tab. NOTE: Take care not to damage painted edge of bumper 	
	22. Remove plastic plugs securing upper bumper tabs to cross member.	
	 You can now remove the bumper and place on soft non abrasive rug or similar, it is best to do this with the help of another person. 	
	24. 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	
2	25. 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.	

REMOVAL OF BUMPER Cont.



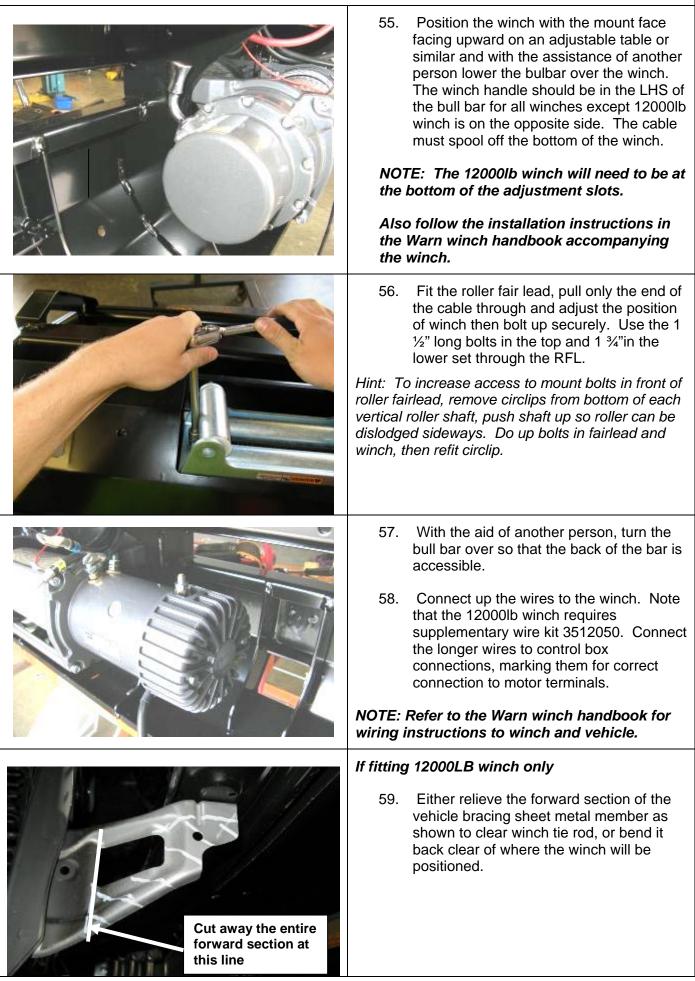
PREPARATION FOR MOUNT BRACKETS	
	 34. Remove foam absorber bar and set aside, this will not be reused 35. Remove crash bar then beam mount brackets and set aside, retain only M10 flange nuts for reuse.
	36. Remove tow hooks and set aside, these will be reused.
Mark line 60mm from front face, other lines as indicated	 37. Mark the lower section of the air scoop for the power steering radiator as shown. This is for trimming to clear the mount brackets. 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.
	 38. Remove scoop and cut using jigsaw or similar and remove burrs. Warning: Cutting operations can result in flying debris, safety glasses should be worn.

PREPARATION FOR MOUNT BRACKETS



PREPARATION OF BULL BAR		
	FITTING WINCH	
	48. Fit large grommets to holes in top pan	
	49. Fit control box bracket to control box studs as shown. <i>Picture also shows</i> <i>routing of leads through grommets in pan.</i>	
	50. Using M8 fasteners fit control box mounting bracket to pan	
	51. Prepare winch for fitting by undoing the cap screws on the gearbox end.	
ORIGINAL POSITION	52. 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 72°)	
	53. Tighten the cap screws ensuring the gearbox handle operates freely.	
NEW POSITION	 54. For 8-9500lb only rotate the motor end 90° clockwise (elec. terminals will be up, see step 59) 	
	NOTE: 12000lb motor is in correct position as supplied	
	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

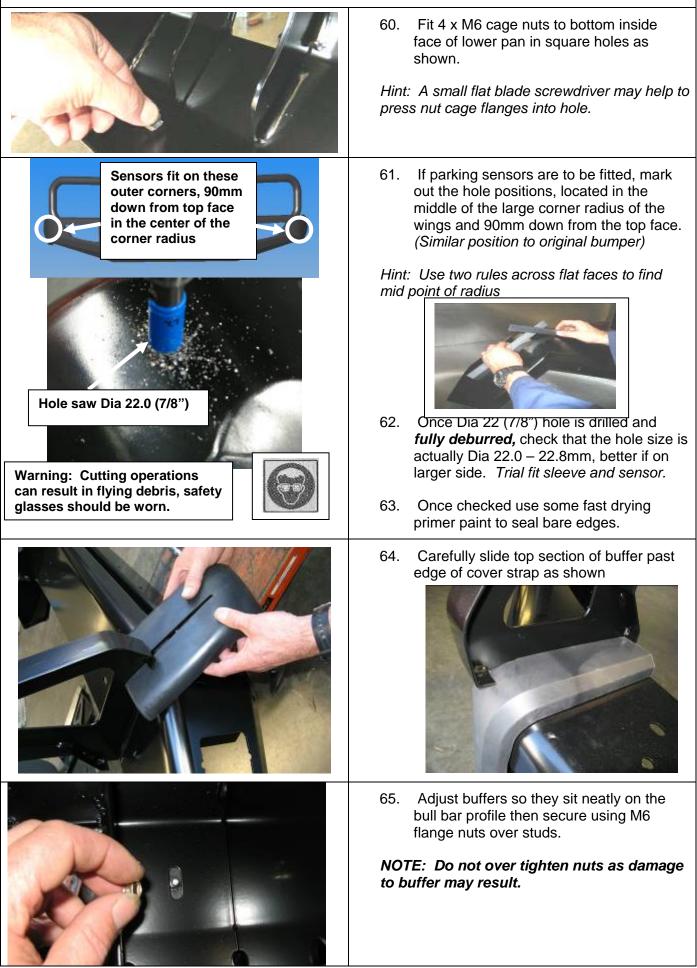


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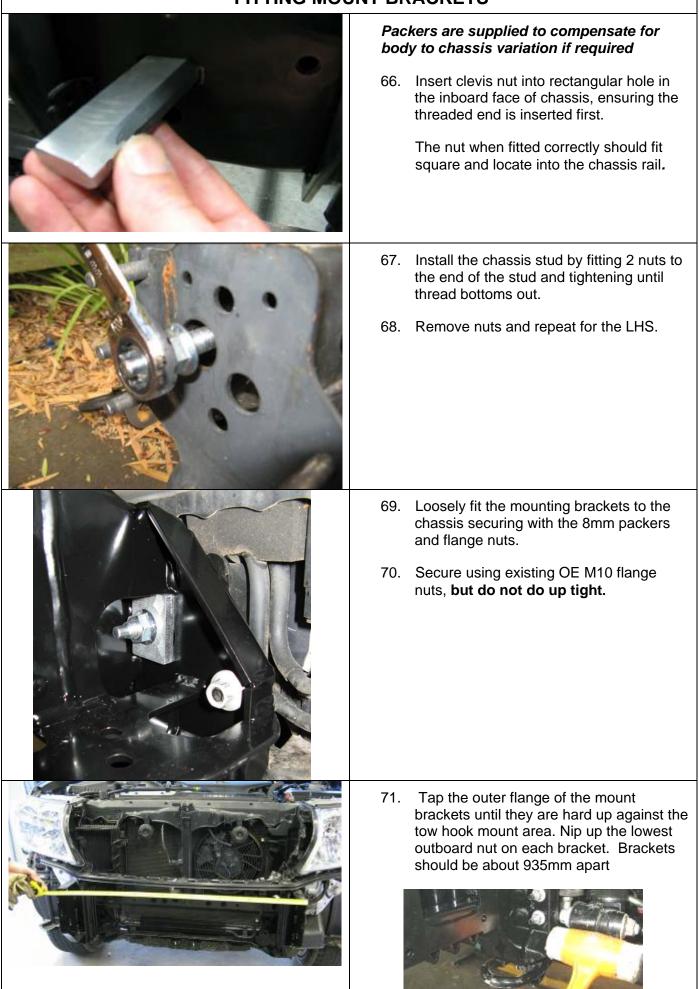
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PREPARATION OF BULL BAR

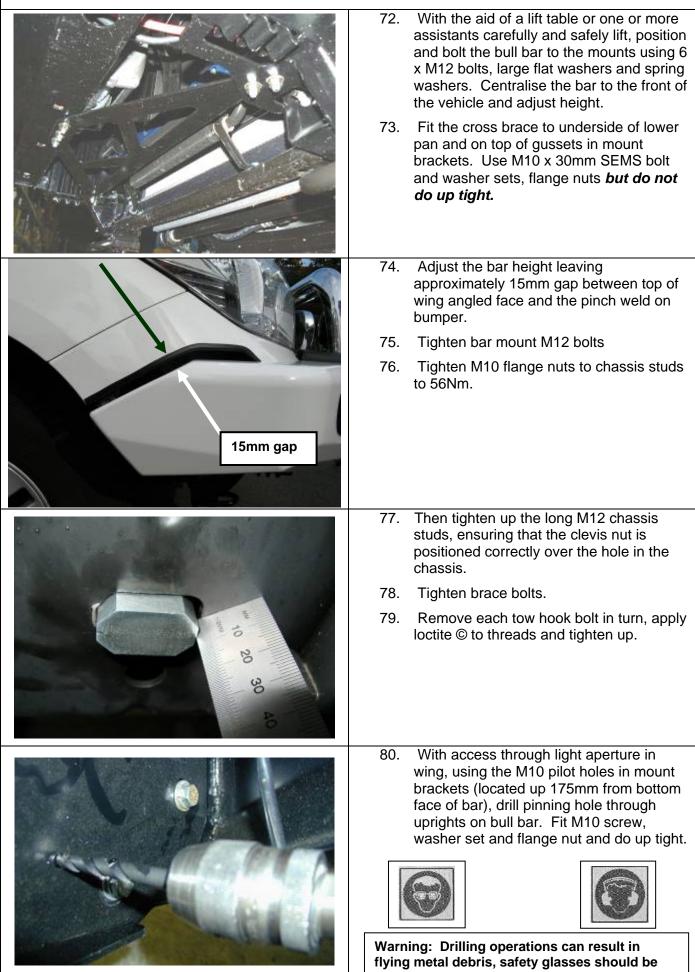


FITTING MOUNT BRACKETS



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FITTING BULL BAR TO VEHICLE



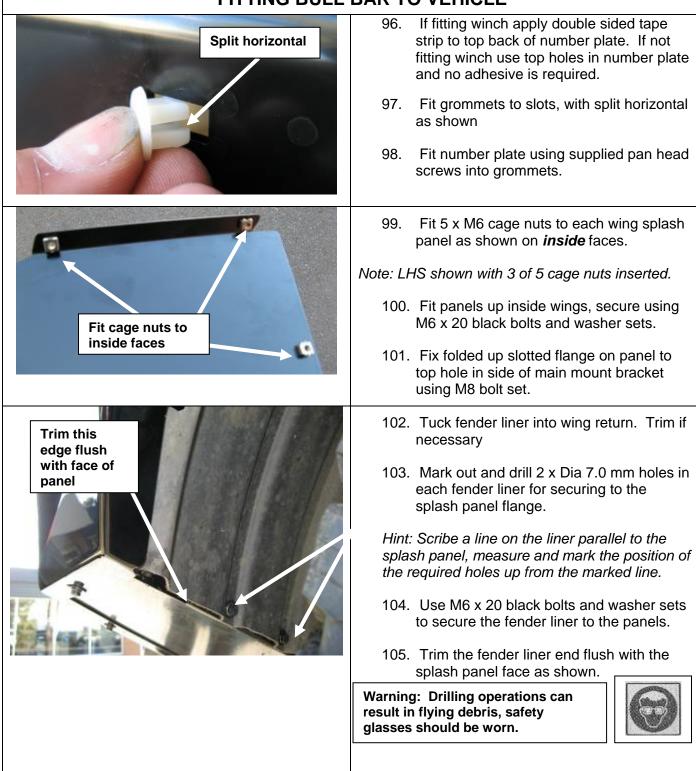
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FITTING BULL BAR TO VEHICLE

FITTING BULL BAR TO VEHICLE		
	81. If headlight cleaner system to be fitted, reconnect circuit at main joint to vehicle and also hoses to tails of spray heads	
	 Remove and discard screws and speed nuts on supplied indicators. 	
	83. Using the 25mm long pan head screws in the fitting kit, fit indicators to light surrounds, note that the indicators are handed and drain holes must be on the lowest edge.	
	84. If fitting fog lamps, refer to instructions supplied with kit.	
	85. Fit insert assemblies into the wings as shown	
Character and the second	 86. Fit the 4 x clamps to secure light assembly in position. 	
	HINT: You can loose fit the top two screw and clamp sets before loading the assembly into the wing to make fit up easier.	

	BAR TO VEHICLE
FITTING BULL	
	87. Wire up indicators and parking lamps.
Running lamp wiring	88. Connect red wire from supplied loom to green wire from running (parker) lamp. Connect black wire from supplied loom to green/yellow indicator wire. Connect green loom wire to white/black indicator wire.
	 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.
	90. Wire up P# 6821201 ARB fog lamps if fitted. Connect factory loom 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.
	91. 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	92. Fit sensors checking that they are not too tight, otherwise correct operation may be affected (if tight check hole size and rectify as necessary)
sensor fits flush	 93. Connect to main loom and cable tie wiring securely
M6 thread in vehicle tray Spacer tube	 94. 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.
	95. Fit off winch hook.

FITTING BULL BAR TO VEHICLE



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.

FINAL PRODUCT ON VEHICLE

