

Part Number:	3914510 – 2005 to 2011 SAHARA BAR (NO INDICATORS)
Suited to vehicle/s:	HILUX – 2005 to 2011 WITH FLARES - (SRS AIR BAG EQUIPPED MODELS). ARB WINCH/NON WINCH BUMPER- NO INDICATORS.
Fitting Kit:	 5100070: Top Tube Kit 5100020: Buffer Kit – With hole (required when fitting Top Tube) 5100030: Buffer Kit – With No Hole
Optional Fitting Kit:	 3500530 – ARB AUX FOG LIGHT LOOM. (NON FACTORY FOG LAMP INSTALLATION). 3500590 – ARB FFR FOG LIGHT KIT (FOR NON FACTORY FOG LAMP VEHICLES). 3500680 – FOG LAMP HOUSING CLEAR LENSE KIT 3540050 – WINCH INSTALL KIT. 3500610 – ZEON WIRE ROPE F/KIT.

3500620 – ZEON SYNTHETIC ROPE F/KIT.

WARNING

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.
- 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
- 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

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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 Carnauba 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

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.

REQUIRED TOOLS FOR FITMENT OF PRODUCT:

METRIC SOCKET SET	METRIC RING AND OPEN ENDED SPANNER SET
ELECTRIC DRILL 13 MM CAPACITY	5 & 10 mm DRILL BITS
BASIC TOOL KIT	PHILLIPS AND FLAT BLADE SCREW DRIVER SETS
TORQUE WRENCH (or WRENCHES	ROLLS OF 25 mm & 50 mm WIDE
Capable of covering from 3NM – 77NM)	MASKING TAPE
FELT TIP MARKER PEN	FINE FILE OR SAND PAPER
METRIC TAPE MEASURE or RULE	SCISSORS or SHARP KNIFE
TOUCH UP PAINT – BLACK FAST DRYING ENAMEL	STEPPED RING SPANNER TO SUIT 3/8" BOLT. (If installing a winch).

FASTENER TORQUE SETTINGS: -

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

USE	PART No	QTY	DESCRIPTION
	3756499	1	CONTROL BOX BRACKET
	6151234	2	BOLT, M8 x 1.25 x 25 LONG (BLACK)
CONTROL BOX FITMENT	4581045	2	WASHER FLAT M8 (BLACK)
(WINCH ONLY)	6151132	2	NUT FLANGE M8
	EG50	2	GROMMET RUBBER
	180302	8	CABLE TIES
	4581040		WASHER FLAT 3/8"
WINCH (8000/9000/9500 LB)	6151074		BOLT UNC 3/8" x 1 ¾"
	BLB850		CABLE BLACK 850mm
	6151304	4	NUT CAGE M10
	4581040	8	WASHER FLAT M10
	4581288	4	WASHER FLAT M10 (OVER-SIZED)
IMPACT ABSORBER TO BULL BAR	4581048	8	WASHER, SPRING, M10
	6151232	8	BOLT, M10 x 1.5 x 30 LONG
	6151026		NUT, HEX, M10 x 1.5
NUMBER PLATE TO BULL BAR	6821189	2	
INSERT TO BULL BAR	6151384	2	SCREW PAN HD PHIL BLK 5 X 16mm
	21620040	1	TRIM, WING (LH), HILUX 05
	3163001R 3163001L	1	TRIM, WING (LH), HILUX 05
WING TRIM FITMENT	4581082	10	WASHER, FLAT, M6 (BLACK, 20 OD)
	6151162	10	NUT, NYLOC, M6x1
	3758412R	1	BRKT ASSY IMPACT HILUX UPDATE
	3758412K	1	BRKT ASSY IMPACT HILUX UPDATE
IMPACT ABSORBER TO CHASSIS	4581040	4	WASHER, FLAT, M10
	4581048	4	WASHER, SPRING, M10
	6151133	4	NUT, M10 x 1.25
	3199756R	1	PLATE (RH), CHASSIS, HILUX 05
	3199756L	1	PLATE (LH), CHASSIS, HILUX 05
	6151234	2	BOLT, M8 x 1.25 x 25 LONG (BLACK)
CHASSIS STIFFENING PLATE	6151088	6	BOLT, M10 x 1.25 x 35 LONG
TO CHASSIS & IMPACT	4581040	12	WASHER, FLAT, M10
ABSORBER	4581045	2	WASHER, FLAT, M8 (BLACK)
	4581048	6	WASHER, SPRING, M10
	4581047	2	WASHER, SPRING, M8 (BLACK)
	6151133	6	NUT, M10 x 1.25
	3756725	1	BRKT GRILL MNT HILUX 05
	6151234	2	BOLT, M8 x 1.25 x 25 LONG (BLACK)
LOWER GRILL BRACKET	4581045	2	WASHER, FLAT, M8 (BLACK)
	4581047	2	WASHER, SPRING, M8 (BLACK)
	6151132	2	
FOG LAMPS TO BULL-BAR	3163082	1	KIT SURROUND ARB FOGLIGHT
	6821183	2	FOG LAMP LOOM EXTENSION 55W
	6522650	1	PANEL STONE GUARD LOWER HILUX 05
	6522926	1	PANEL STONE HILUX UPDATE
	6151315	2	CAGE NUT, M6 (1.6mm PLATE)
	6151303	6	CAGE NUT, M8 (3mm PLATE)
CENTRE STONE DEFLECTORS	4581082	2	WASHER, FLAT, M6 (BLACK, 20 OD)
	4581287	2	WASHER, SPRING, M6 (BLACK)
	6151213	2	BOLT, M6 x 1.0 x 20 (BLACK)
	4581045	6	WASHER, FLAT, M8 (BLACK)
	4581047	6	WASHER, SPRING, M8 (BLACK)
	6151234	6	BOLT, M8 x 1.25 x 25 LONG (BLACK)

ITEMS SHOWN IN SHADED AREA ARE FOR WINCH FITMENT.

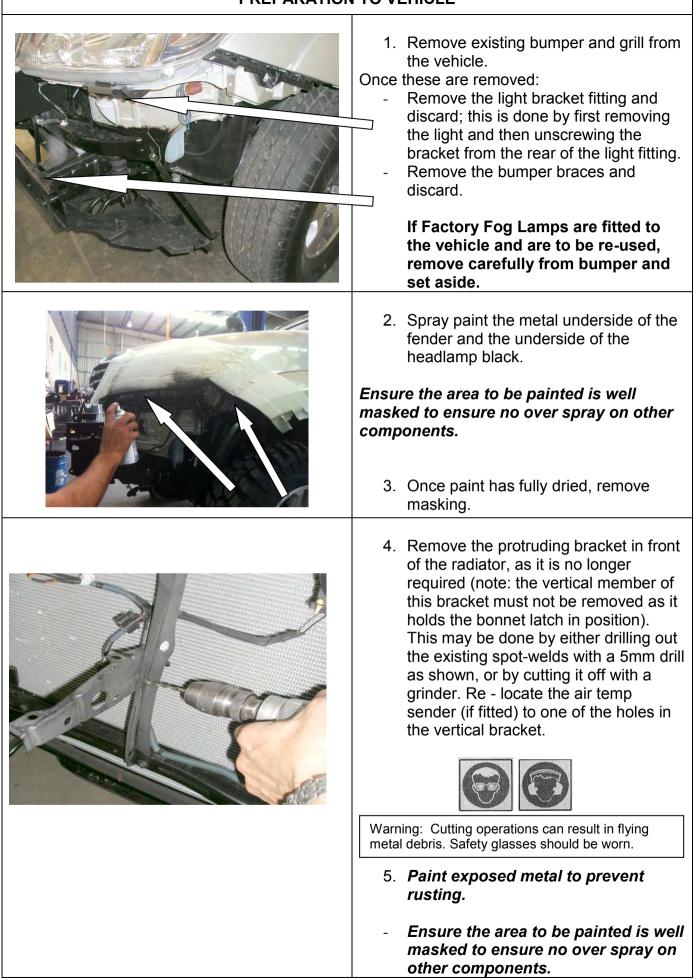
USE	PART No	QTY	DESCRIPTION
	6522653R	1	PANEL WING HILUX 05 (RH)
	6522653L	1	PANEL WING HILUX 05 (LH)
	6151315	10	CAGE NUT, M6 (1.6mm PLATE)
	4581082	10	WASHER, FLAT, M6 (BLACK, 20 OD)
WING STONE DEFLECTORS	4581287	10	WASHER, SPRING, M6 (BLACK)
WING STONE DEFLECTORS	6151213	10	BOLT, M6 x 1.0 x 20 (BLACK)
	6151094	2	BOLT M12 x 1.25 x 30 LONG
	4581049	2	WASHER, FLAT M12
	4581050	2	WASHER, SPRING M12
	180302	4	CABLE TIES
	6522661	1	PANEL WINCH COVER
	6151256	2	BUTTON HEAD SCREW M6 x 16mm
WINCH COVER PANEL	4581304	2	WASHER FLAT M6 S/S
	6151128	2	FLANGE NUT M6
	6191005	1	WINCH COVER EXTRUSION
AERIAL PLUGS	3162152	2	CB AERIAL CAP
BUFFERS TO BULL BAR (5100020	3162469R	1	BUFFER (RH)
REQUIRED IF FITTING TOP TUBE)	3162469L	1	BUFFER (LH)
	6151128	12	NUT FLANGE M6
BUFFERS TO BULL BAR (5100030	3162466R	1	BUFFER (RH)
REQUIRED IF NOT FITTING TOP	3162466L	1	BUFFER (LH)
TUBE)			
	6131371	1	TOP TUBE ASSEMBLY
TOP TUBE TO BULL BAR	6151255	2	BOLT M12 x 1.75 x 40 mm LONG
(5100070)	4581049	2	WASHER M12 FLAT
	4581050	2	WASHER M12 SPRING

ITEMS SHOWN IN SHADED AREA WILL BE SUPPLIED DEPENDENT ON CHOSEN BAR CONFIGURATION.

NOTE:

- FITS ARB INTENSITY DRIVING LIGHTS.
- FITS IPF DRIVING OR FOG LIGHTS UP TO 900 SERIES ROUND OR 800 RECTANGULAR.
- SUITS WINCHES WARN ZEON AND LOW MOUNT UP TO 10K, BUSHRANGER AND SMITTYBUILT.

PREPARATION TO VEHICLE



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PREPARATION TO VEHICLE



 Fasten the lower grill bracket to the vehicle head lights, as shown, using M8 x 25 black bolts, flat washers, spring washers and flange nuts.

Torque to specification.





 Reassemble the vehicle's grill removed at Step 1; make sure the 2 x lower grill tabs are pushed into the clips in the lower grill bracket. Bend lower grill bracket tab upwards slightly.

PREPARATION TO BULLBAR

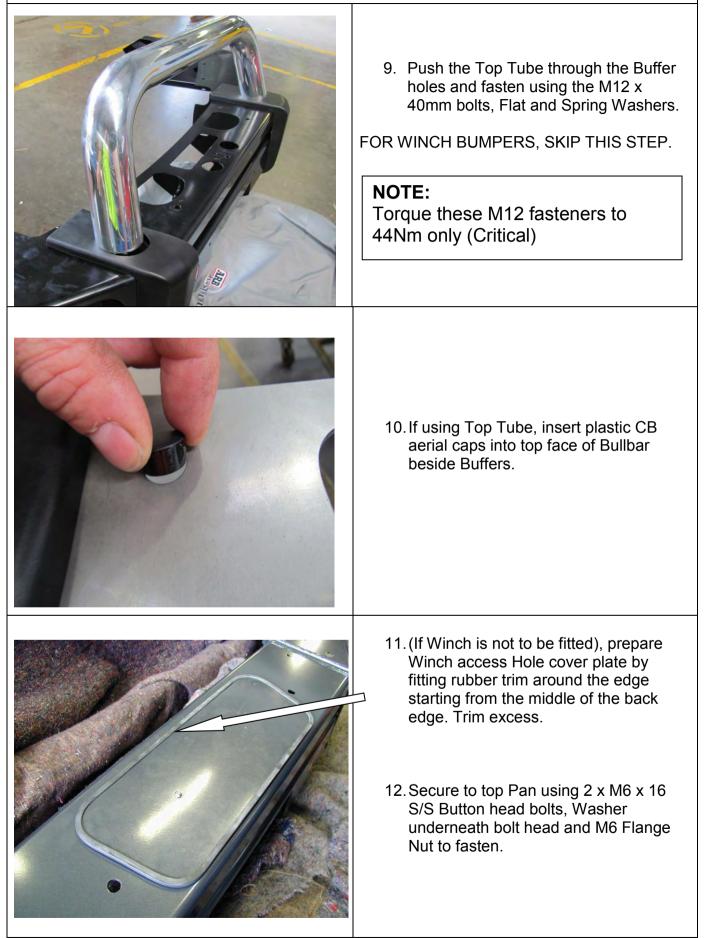


8. Fit the buffers to the bull-bar using the 6mm flange nuts provided.

(DO NOT OVER TIGHTEN)

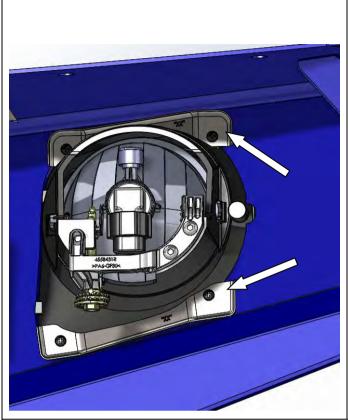
FOR WINCH BUMPER BARS, FIT BUFFER WITHOUT TOP TUBE HOLES.

PREPARATION TO BULLBAR



PREPARATION TO BULLBAR 13. Fit caged nuts to the bull-bar. NOTE: M10 caged nuts. (4 off) Caged portion is to centre of bull bar. M8 caged nuts. (4 off) Caged portion is to top of bull bar. 14. Loosely fit the wing trims using 5 xoversized M6 washers, 4 x M6 nyloc nuts and 1 x self-tapping screw on each side of the bar These nuts will be tightened after the bar has been fitted to the vehicle and the wing trims have been positioned in an optimal position. (Step 41). 15. Fit fog lamp housings (3163082) into the bull-bar fog lamp cutouts as shown. (RH Shown). If fitting fog lights (ARB or OE) refer to fitting instructions (3789190) in the fog lamp housing kit (3163082) for details before mounting the housings in the bull-bar.

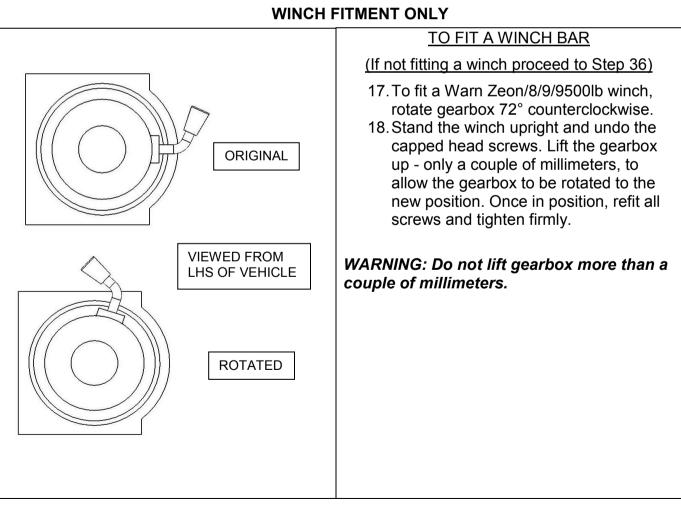
PREPARATION TO BULLBAR



16. Secure into position as indicated using the 2 x fog lamp clamps and 4 x selftapping screws. Note: Clamps and Screws are supplied in 3163082 – Kit Surround ARB Fog Housing.

(RH Clamps Part No. 3759115R). (LH Clamps Part No. 3759115L).

Note: 19w Factory Fog Lamp fitted in this view.



WINCH FITMENT ONLY		
	 19. Remove the cover from the control box. 20. Replace the three main power cables that go from winch to control box. Make sure that you identify the colour codes on the new cables before closing control box cover. 21. This must be done for whatever winch is to be fitted to the bull bar. 	
	 22. If fitting the XP 9.5 winch, remove the cover from the control box, otherwise proceed to Step 28. 23. Remove the two cap screws, nuts and spacer washers that hold the four solenoids in place. 	
	24. Remove the four solenoids from the base of the control box using the copper bus bar as an aid and hold to one side.	
<image/>	25. Remove the two bolts in the base of the control box and reposition them into the more centralized holes.	
Before	After	

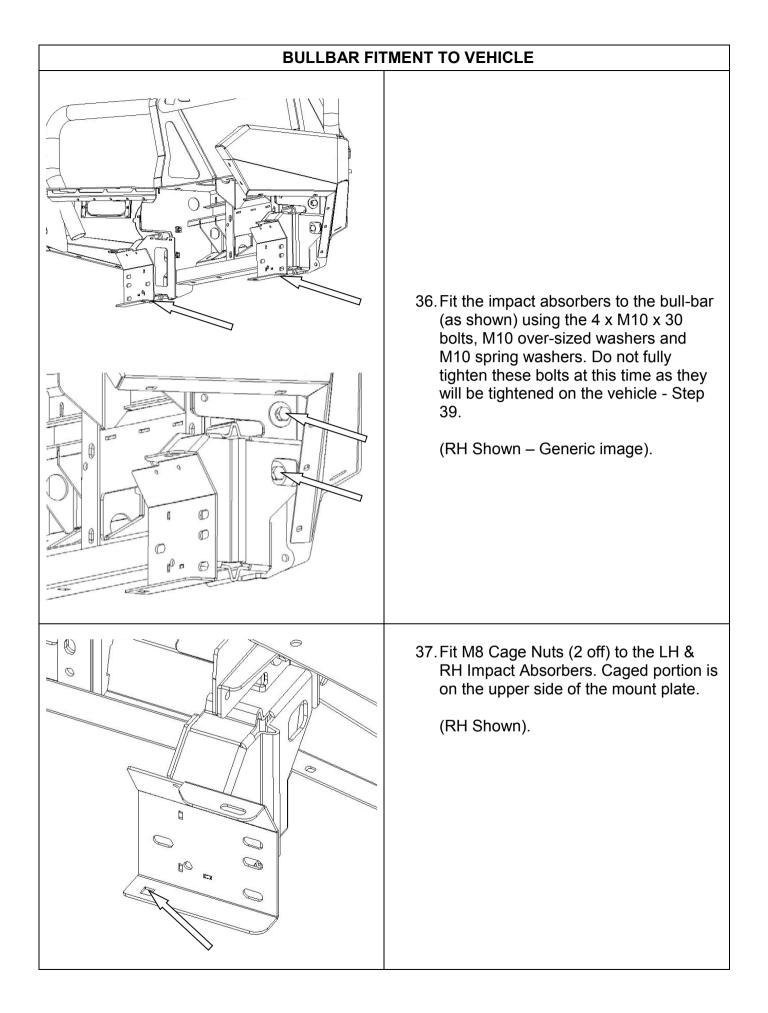
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 Vertical Structure

WINCH FITMENT ONLY		
	26. Place the 4 solenoids over the 2 metal stands that are facing upwards. Make sure they line up with the holes in the base.	
	27. Replace the 2 x cap screws, washers and nuts removed in Step 23 into original holes.	
	Replace the black cover and refit the three cover screws. (DO NOT OVER TIGHTEN)	
	28. Bolt the control box bracket to the control box.	
	29. Fit the two grommets into the round holes in the top of the bull bar then thread the cables through.	
	30. Mount the control box bracket onto the top pan, using M8 bolts, flat washers and flanged nuts. Use the cable ties to ensure the winch cables are secure, clear of moving parts and sharp edges and tie them together.	
	31. Place winch on a stand with mounting holes facing upwards and lower the bull bar onto the winch. Align all four holes, using the original 3/8" bolts that came with the winch in the top two holes and the longer 1 ³ / ₄ " x 3/8" bolts, supplied in the kit, in the lower two holes plus 3/8" spring and flat washers with each bolt.	
	32. When all bolts are fitted and finger tight, tighten top holes only, using a stepped ring spanner and remove lower bolts.	
	33. Drill two new 13mm holes in the roller fairlead provided in the kit, as shown on the adjacent picture.	

WINCH FITMENT ONLY		
	34. Fit roller fairlead into cutout and refit bolts and tighten firmly.NOTE. For ease of tightening the lower bolts, use a stepped ring spanner.	
	 35. Connect the winch control box cables to the winch. Refer to Warn installation instruction manual when wiring up winch. *Refer to photo to see where to cable tie to the bull-bar*. *Ensure that all cables are installed well clear of all sharp or moving parts, by using cables ties from bolt kit. *Cable tie main cables that go to battery in between underside of bar and brace. 	



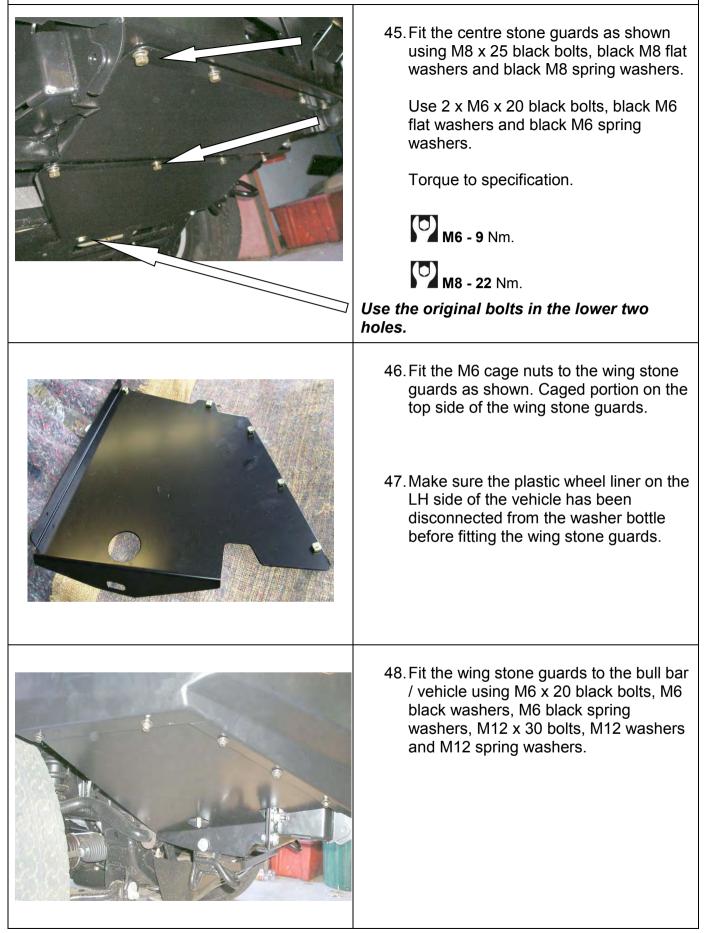


Warning: Cutting operations can result in flying metal debris. Safety glasses should be worn.

Torque to specification.



BULLBAR FITMENT TO VEHICLE		
	 41. On both sides of the vehicle position the wing trims to fit uniformly around the vehicles headlamps (attached to the bull-bar at Step 14) and tighten the M6 nuts and self-tapping screws. Torque to specification. 	
	 42. Fasten the chassis-stiffening bracket to the chassis and the impact absorber as shown. Fasteners required: M10 x 35 bolts – 6 off, M10 flat washers – 12 off, M10 spring washers – 6 off, M10 hex nuts – 6 off, M8 x 25 bolts – 2 off, M8 flat washers – 2 off, and M8 spring washers – 2 off. Torque to specification. 	
	M10 - 44 Nm.	
	Leave this bolt hole clear for Step 48.	
	43. Connect Fog Lamp wiring looms/plugs.	
	 For Vehicles with Factory Fog Lamps - 55W: Connect RH & LH Fog Lamp wiring using Loom Ext. Fog Light (6821183) between OE Fog Lamp plugs and 55W Factory Fog Lamps. 	
	 For ARB Fog Lamps - 3500590: Connect RH & LH Fog Lamp wiring using Fog Light Wiring Loom kit – 3500530. 	
	Cable tie <u>all</u> wiring and wiring looms into safe and convenient locations. Ensure that all cables are installed well clear of all sharp or moving parts, by using cables ties from bolt kit.	
	44.Fit M6 Caged Nuts to Centre Stone Guard as shown. Caged portion is on the upper side of the stone guard.	



BULLBAR FITMENT TO VEHICLE		
	49. Cable tie the plastic wheel liner on the LH side of the vehicle to the two holes provided in the wing and the wing stone guard, as shown in the adjacent photo.	
	 50. Mark lines along the inner guards using the bottom edge of the wing stone guards as a guide. 51. Remove the wing stone guards and cut along the lines marked in the previous step. 52. Refit the wing stone guards, tucking the inner guards inside the rear edge whilst fitting. Re-install all bolts from Step 48 and torque to specification. M6 - 9 Nm. M8 - 22 Nm. M12 - 77 Nm. For Vehicles Manufactured May 2006 and Onward: - The above two steps will need to be repeated on the Right Hand Side of the Vehicle also.	
E TME - 997	53. To install the number plate. Fit the plastic plugs into the square holes in the lower or upper pan depending on fitment. Fit the number plate to the bull bar using the black self-tapping screws.	
TCN 517 VICTORIA - THE PLACE TO BE	The two photos display the number plate positions for both winch and non-winch bars.	

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54. If fitting optional driving lights to vehicle do so at this stage. Guide ratchet spanner between the upper and lower pans, as shown, to tighten the lights to the bar.



HIGH-LIFT JACKING POINTS



Provision for a high-lift jack is on both sides of bar.

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 connections to turn signal lamps, sensors, headlamp washers etc. are functioning correctly

