

Part Number:3921450 60 F/Kit 6172900ProductSAHARA BARSDescription:Suited toTOYOTA PRADO 150 MODELS GX, GXL, SX, VX, KAKADU, ZRvehicle/s:**Vehicles WITH parking sensors P# 3921460 WITHOUT 3921450Buffer kits:5100020 (Sahara Bar with frame) or 5100030 (Sahara bumper only)5121010 (Polished center frame)

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 SET	METRIC RING AND OPEN ENDED SPANNER SET
ELECTRIC DRILL 13MM CAPACITY	3, 7,10 & 13mm DRILL BITS
SHARP KNIFE	PHILLIPS AND FLAT BLAD SCREW DRIVER SETS
FELT TIP MARKER PEN	HACKSAW BLADE
FINE FILE OR SAND PAPER	ELECTRIC JIG SAW
METRIC TAPE MEASURE	ROLLS OF 25 mm & 50 mm WIDE MASKING TAPE
TOUCH UP PAINT – BLACK FAST DRYING ENAMEL	SCISSORS
SMALL EXT CIR CLIP PLIERS	COLD CHIZEL

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:

NOTE:

- OPTIONAL FOG LAMPS TO SUIT THIS PRODUCT ARE P#6821201. IF LOOM AND SWITCH REQUIRED USE P#MD02 LOOM KIT, P#180209 SWITCH AND P#180215 SWITCH CAP FOR FOGS
- UP TO 900 SERIES ROUND OR 800 RECTANGULAR DRIVING OR FOG LAMPS SUIT THIS PRODUCT

	PARTS LI	STING	
APPLICATION.	PART NO.	QTY	DESCRIPTION
	3757998R&L	1 PR	BRACKET ASSY IMP ABS RH & LH
	3757995R&L	1 PR	BRACE
	6151040	8	BOLT M10X1.25P(FINE)X30
	4581040	8	WASHER FLAT M10 X 25 X 3THICK
	4581048	8	WASHER SPRING M10
MOUNT BRACKET (IMPACT	6151306	2	NUT CAGE M12 X 1.75P
ABSORBER) TO CHASSIS	3194155	2	PLATE EXTENSION CAGE NUT
	6151094	2	BOLT M12 X 1.25P(FINE) X 30
	4581049	12	WASHER FLAT M12 X 25 X 3THICK
	4581050	8	WASHER SPRING M12
	6151360 6151428	8 6	BOLT M12 X 1.75 X 35 (COARSE PITCH) NUT FLANGED M12
	6151428	6	BOLT M12 X 1.75 X 35 (COARSE PITCH
	4581007	6	WASHER FLAT M12 X 37 X 4
	4581050	6	WASHER SPRING M12
BULL BAR TO MOUNT BRACKETS	6151428	6	NUT FLANGED M12
	6151357	4	BOLT SEMS M10 x 30 LONG
	6151321	4	NUT FLANGE M10
	6151384	2	SCREW PAN HD
LICENCE PLATE TO BULL BAR	6821189	2	GROMMET RND HD
	3163015	1	COMBINATION LIGHT SURROUND KIT
	6821151R&L	1 PR	INDICATOR/CLEARANCE LAMP RH/ LH
LIGHT INSERT AND INDICATORS	6821152	2	LOOM INDICATORS
	180701	6	SCOTCH LOKS
	3756499	1	CONTROL BOX MOUNT
	EG50	2	RUBBER GROMMET
	6151074	2	BOLT 3/8" x 1 ¾" HEX HEAD
	6151073	2	BOLT 3/8" x 1 1/2" HEX HEAD
WINCH TO BULL BAR	4581040	4	WASHER FLAT M10
	4581048	4	WASHER SPRING M10
	6151022	2	BOLT M8 x 25mm
	6151132	2	NUT FLANGE M8
	4581044	2	WASHER FLAT M8
	180302	6	CABLE TIES
	6522785	1	PANEL WINCH COVER
WINCH COVER	6151256	2	SCREW M6 X 16MM BUTTON HEAD S/S
(NOT FITTING WINCH)	6151128	2	NUT FLANGE M6
(6191006	1	EXTRUSION WINCH COVER
	4581304	4	WASHER FLAT M6 S/S
BUFFER FASTENERS	6151128	12	NUT FLANGED M6
	6151148	2	BOLT 12 x 50 LONG
FRAME FASTENERS	4581050	2	WASHER SPRING M12
	4581049	2	WASHER FLAT M12 X 25 X 3THICK
	4681336	2	STRAP BRACE LOWER
BRACE STRAPS	6151357	6	BOLT SEMS M10 x 30 LONG
	6151321	6	NUT FLANGE M10
	6522782R&L	1 PR	PANEL WING UNDER SIDE
	6151300	14	CAGE NUT M6
	6151213	14	BOLT M6 x 20 BZ
WING UNDER PANELS TO BULL	4581082	14	WASHER FLAT M6 x 20 BZ
BAR	4581287	14	WASHER SPRING M6 BZ
	6151022	2	BOLT M8 x 25 LONG BZ
	4581044	2	WASHER FLAT M8 BZ
	4581046	2	WASHER SPRING M8 BZ
	6151132	2	NUT FLANGE M8
	180302	16	CABLE TIES
MISCELLANEOUS	6191025	2	PINCH WELD NARROW 480mm LONG
	3787068	1	TEMPLATE BUMPER CUT
	6821135	2	CONDUIT 7mm @ 250mm

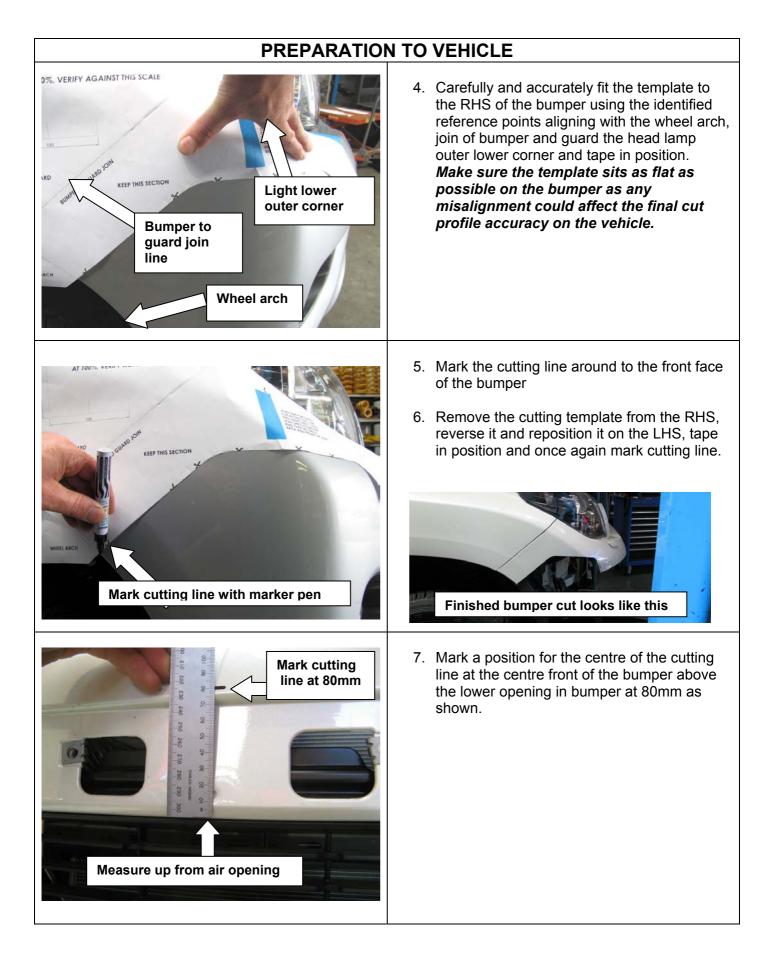
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PARTS LISTING Cont.			
	6522779	1	STONE TRAY
	6151300	4	CAGE NUT M6
STONE TRAY TO BULL BAR	6151213	6	BOLT M6 x 20 BZ
	4581082	6	WASHER FLAT M6 x 20 BZ
	4581287	6	WASHER SPRING M6 BZ
*** P# 5100020 BUFFER KIT SUIT FRAME FITMENT	3162469R&L	2	BUFFER SET WITH HOLES
*** P# 5121010 FRAME KIT	6131616	1	FRAME ASSY PRADO 150
*** P#5100030 BLANK BUFFER KIT	3162466R&L	2	BUFFER SET BLANK

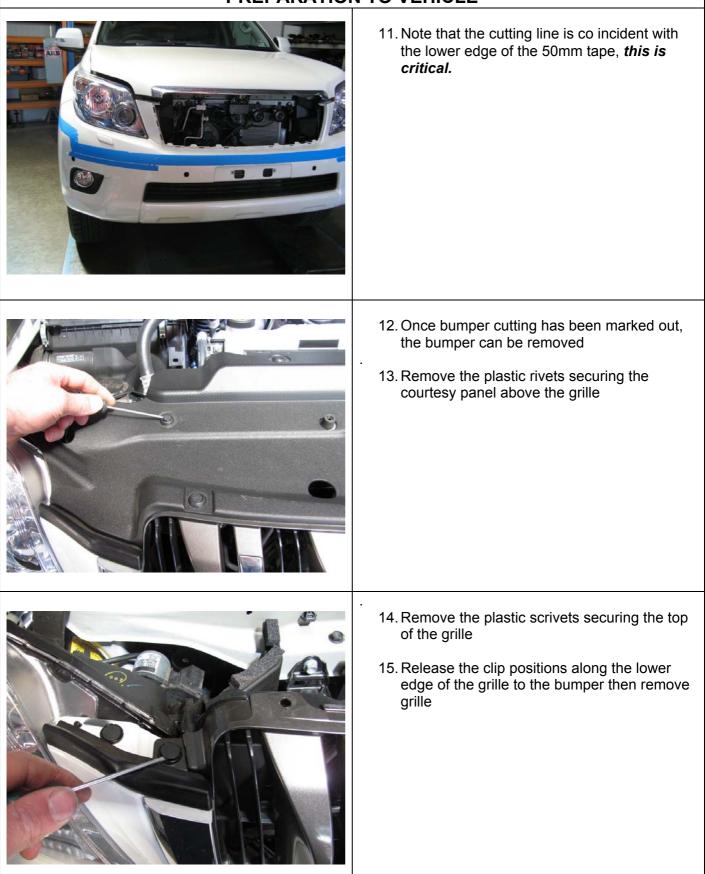
*** Optional buffer kits.

PREPARATION TO VEHICLE	
Example allesville Toyota	1. Remove number plate
THE MAX AND	 Carefully align and join cutting template sheets from fitting kit on the vertical aligning line as indicated on sheets as shown and tape together front and back
NOTE: THIS SHEET MUST BE PRINTED AT 100%, VERTY AGAINST THIS SCALE MUD GUARD JUNERO DUM DOWN REFE THIS SHEET MUST BE PRINTED ALL AND FOLLOW REFE THIS SHEET MUST BE PR	 Using scissors accurately cut out the bumper cutting template along designated bumper cutting line as shown.

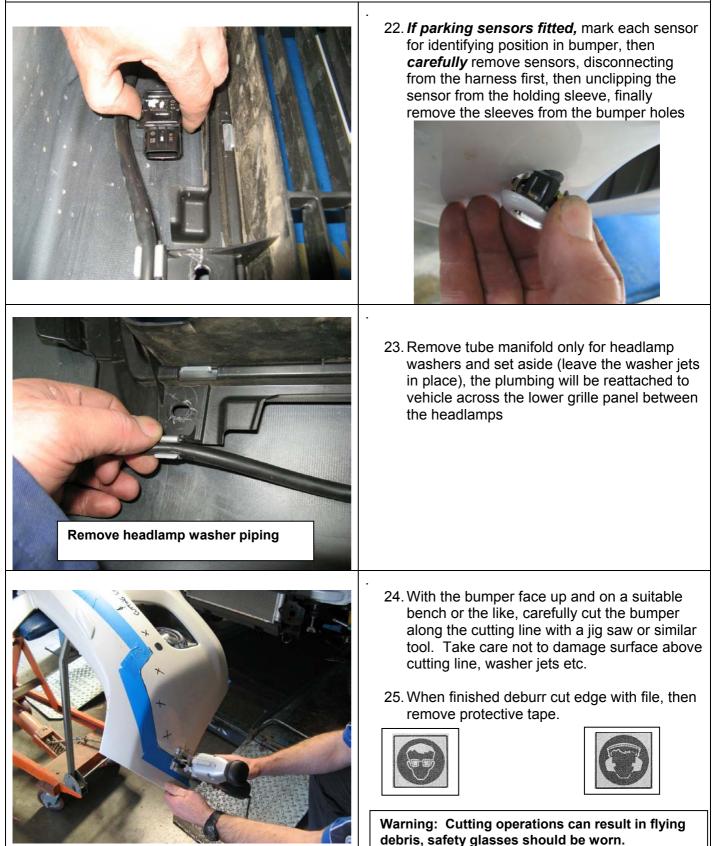
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PREPARATION TO VEHICLE		
Mark cutting line at 80mm Under the second s	 Continue to mark the cutting line position across the center of the bumper above the number plate location as shown out to the extent of the air opening in the bumper as shown. Continue to mark at 80mm as shown. 	
	9. Apply some 25mm masking tape joining the cutting line positions from the most inboard position of the profile from the template to the mark on the outside of the 80mm marks across the centre of the bumper. Mark this line joining the two profiles, repeat for the other side of the bumper.	
	10. Apply 50mm masking tape along the top side of the cutting line right across the bumper as shown	









26. Remove reinforcing beam foam pad, then remove the beam, *refer next step*.

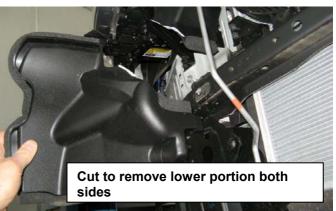


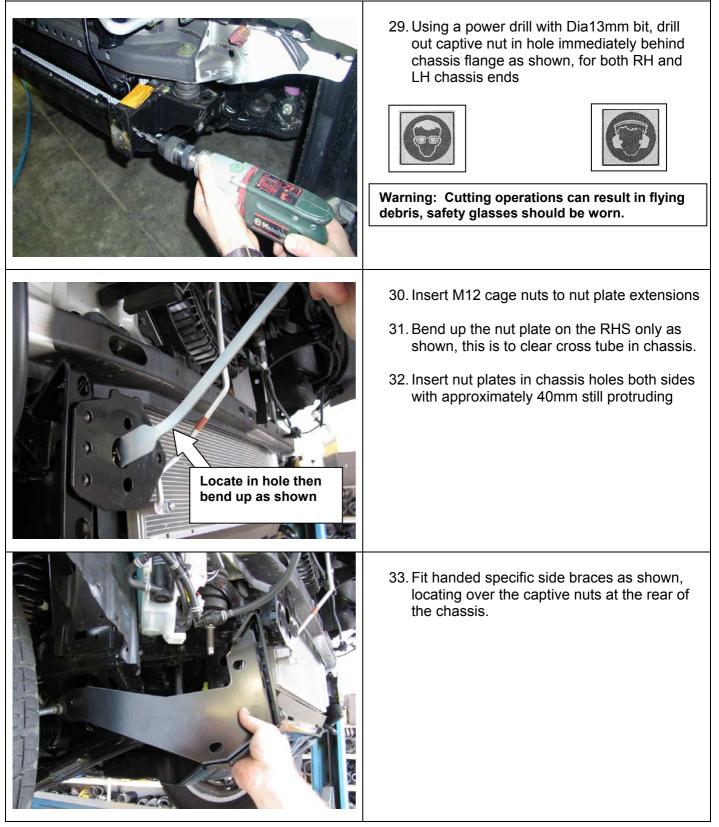
27. Remove reinforcing beam at mounts to chassis by undoing the M10 fine thread bolts. Set beam aside, it will not be reused

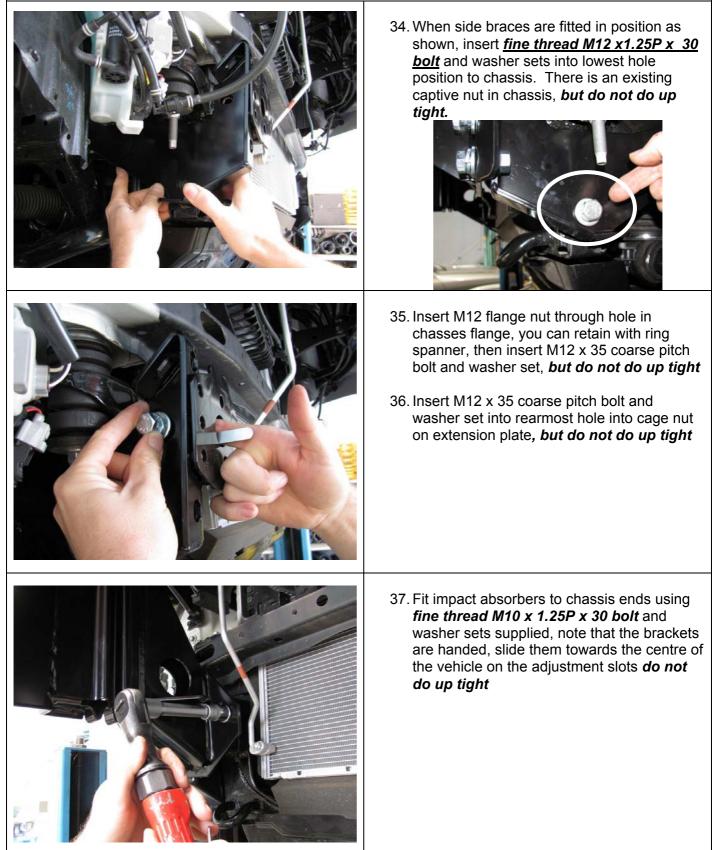


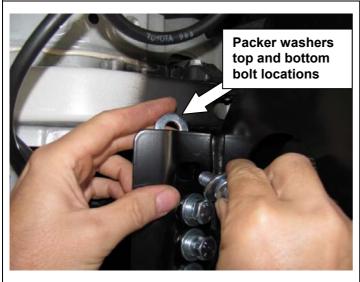


28. Mark a cutting line as shown then cut plastic air deflectors, both sides so lower portion is removed to clear bull bar mounts.





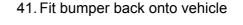


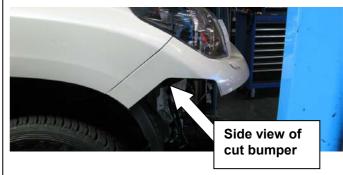


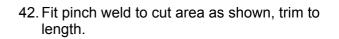
- 38. Fit M12 bolt, washer and flange nut sets to top and bottom positions as shown. Insert M12 flat packing washer between the rear face of the impact absorber flange and the front face of the side brace as shown, *but do not do up tight.*
- 39. Once all bolts are in place nip up the bolts in the side brace.
- 40. Then tighten to full torque the bolts of impact absorbers to chassis flange, *starting with the two inner first* then moving outboard to vertical rows of 5 bolts on outer flange position. Now, tension up side brace bolts to full torque

NOTE: When fitted, if bull bar requires sideways adjustment to align with vehicle, the bolts of the mount to chassis will need to be loosened, adjustment made then re-tensioned. This is best done before angular brace straps are fitted and pinned.



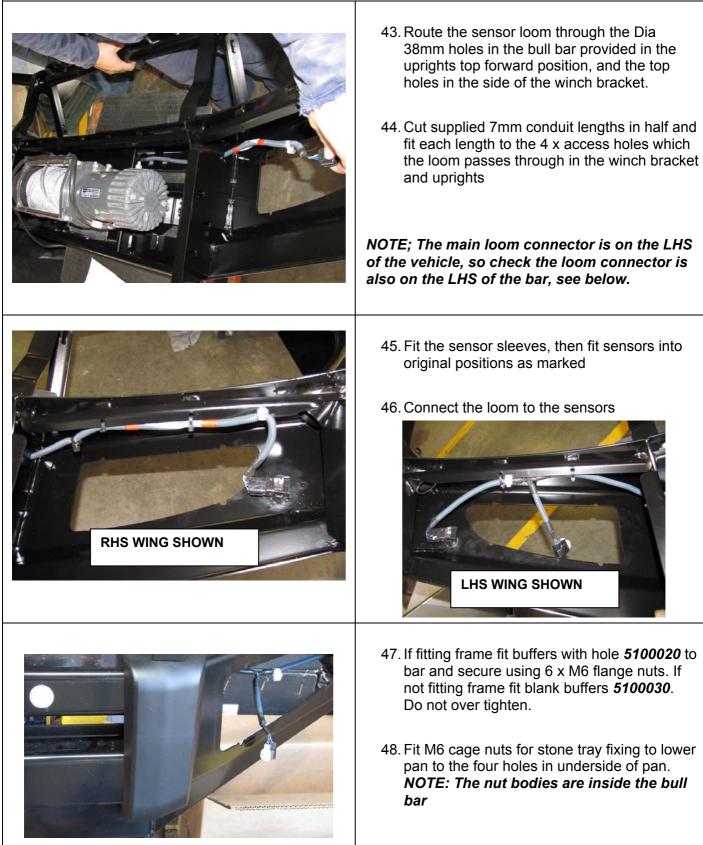








BULL BAR PREPARATION



BULL BAR PREPARATION

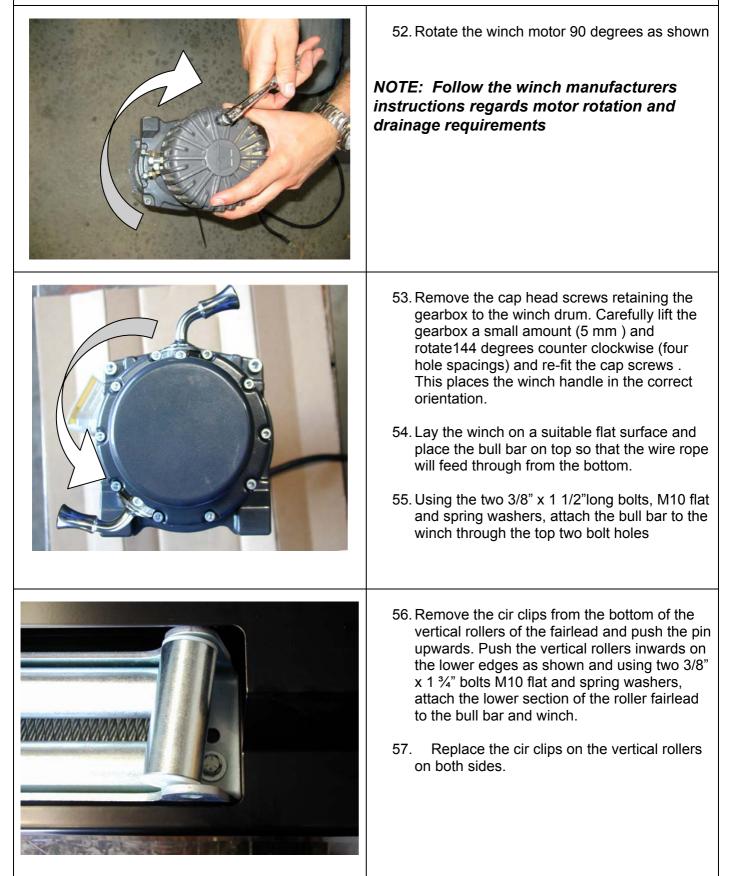


49. If fitting frame *P# 5121010*, locate frame as shown and then from below inside wings, secure with M12 x 50 bolts and washer sets

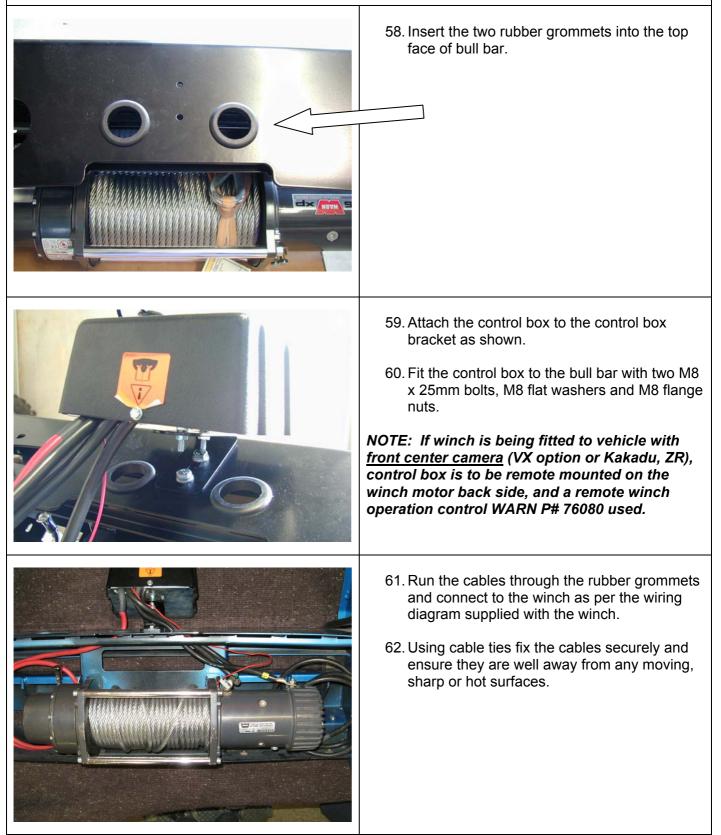


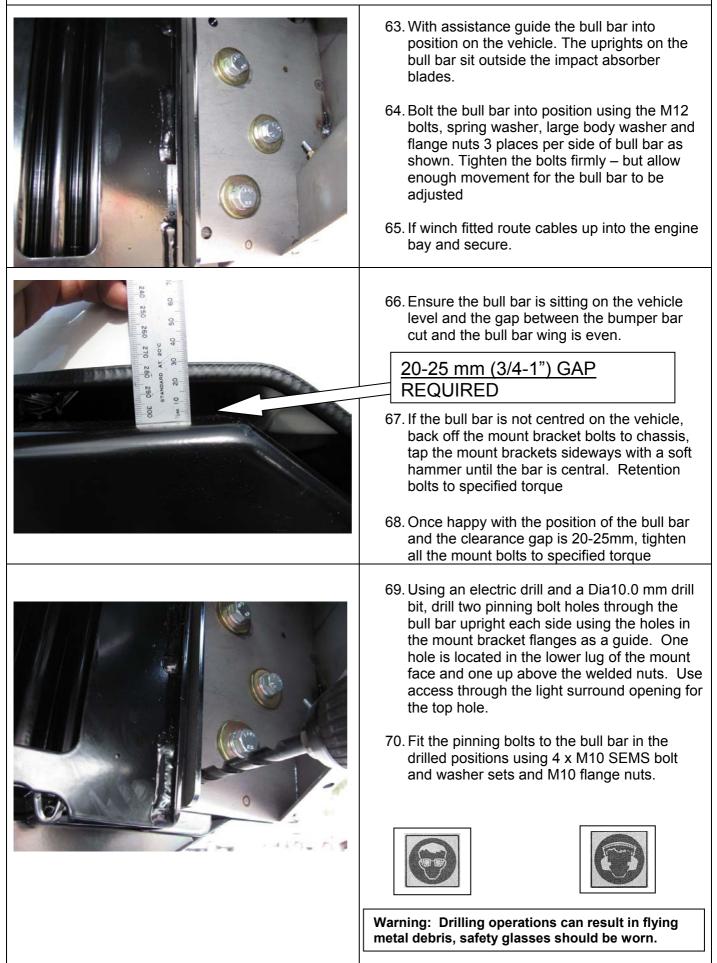
BULL BAR PREPARATION – IF NOT FITTING WINCH	
	50. Apply rubber mould to edge of winch hole cover panel and trim off excess.
	 51. Fit panel to top face on bull bar using stainless steel 2 x M6 dome head screws and stainless steel flat washers and flange nuts. NOTE: The flat washers are to be sandwiched between panel and top face of bull bar to stop the panel pulling down to form depression around screw heads.

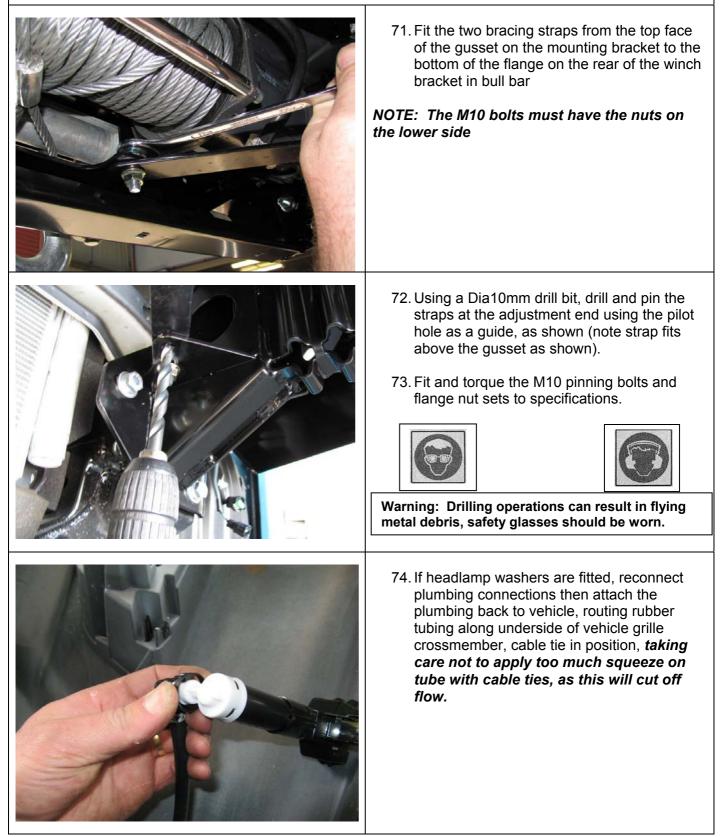
BULL BAR PREPARATION - WINCH FITMENT

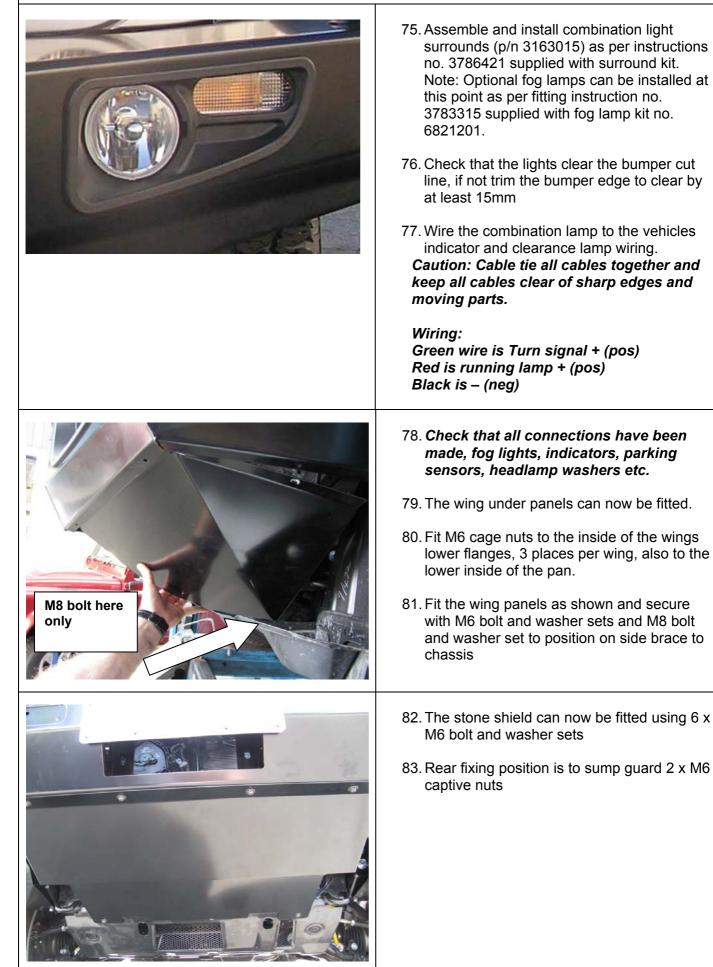


BULL BAR PREPARATION - WINCH FITMENT











84. The licence plate can now be attached to the bull bar. Insert the two plastic square plugs supplied into the two square holes in the face of the bull bar (note slot allows for adjustable number plate hole pitch, ensure grommet flanges fit over the narrow width of the slot to engage correctly).



- 85. If winch fitted, position the licence plate as shown fastening top picture using lower holes. If winch not fitted use the top row of holes, licence plate is positioned lower and covers RFL opening in front of bull bar, lower picture.
- 86. Using the two dome head screws supplied screw into position firmly.
- 87. Trim the outer edge of the fender liner as shown so that it will clip in behind the wing



- 88. Push the outer edge of the liner forward past the wing return edge so that it snaps in place
- 89. Drill Dia 7 holes in fender liner co-incident with the holes in the return flange and captive nuts in the wing under panels
- 90. Fasten with M6 bolt and washer sets
- 91. Carefully trim off the bottom of the guard liner flush with the wing under panel

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

