

Part Number:3914630ProductDescription:HILUX SAHARA BUMPERSuited tovehicle/s:5/18ON SUITS HILUX ROGUE, SR, SR5Optional5100350 – SAHARA TUBE KIT SUITS 3914630Fitting Kits:5100230 – BUFF KIT 2 PCE REAR SAHARA BMPR
3500680 – FOG LAMP HOUSING CLEAR LENS KIT
3500850 – RFL COVER

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 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

REQUIRED TOOLS FOR FITMENT OF PRODUCT:

BASIC TOOL KIT	ELECTRIC DRILL WITH COMPLETE METRIC DRILL SET
JIG SAW OR OSCILATING MULTITOOL WITH BLADE SUITABLE FOR PLASTIC	LOW TACK MASKING TAPE
FILE	UTILITY KNIFE
TAPE MEASURE	CLAMP
STEEL RULER	WHITE FELT MARKER
HACK SAW	TORQUE WRENCH
TOUCH UP PAINT ANTI CORROSION	RIGHT ANGLE ELECTRIC DRILL

HAVE AVAILABLE THESE SAFETY ITEMS WHEN FITTING PRODUCT:

Protective eyewear



Hearing protection

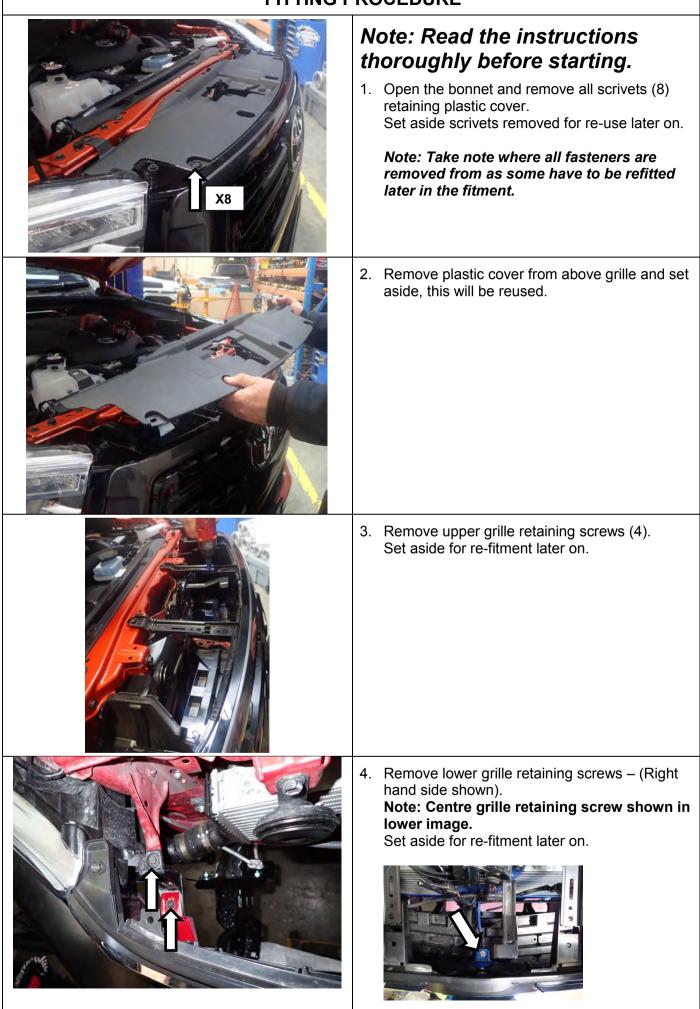


NOTE: "WARNING"notes in the fitting procedure relate to OHS situations, where to avoid a potentially hazardous situation it is suggested that protective safety gear be worn or a safe work procedure be employed. If these notes and warnings are not heeded, injury may result.

FASTENER TORQUE SETTINGS:			
SIZE	Torque Nm	Torque lbft	
M6	9Nm	7lbft	
M8	22Nm	16lbft	
M10	44Nm	32lbft	
M12	77Nm	57lbft	

APPLICATION.	PART NO. 4654475R 4654475L		DESCRIPTION
		1	
	16511751		MNT BRKT ASSY SUITS HILUX RHS
	40344/3L	1	MNT BRKT ASSY SUITS HILUX LHS
	3759667R	1	BRKT CHASSIS OUT HILUX 150N RH
	3759667L	1	BRKT CHASSIS OUT HILUX 15ON LH
	3759666R	1	BRKT CHASSIS IN HILUX 15ON RHS
	3759666L	1	BRKT CHASSIS IN HILUX 15ON LHS
FIT MOUNTS TO	6151094	2	BOLT M12 x 1.25 x 30 Gd8.8 ZP
CHASSIS	6151428	4	NUT FLANGE M12 X 1.75 ZP
CHASSIS	4581007	14	WASHER FLAT 1/2 x 1 1/2 x 4MM SILVER TZP
	6151357	4	BOLT SEMS M10 X 30 ZP Gd8.8
	6151321	8	NUT FLANGE M10 x 1.5 ZP
	6151204	4	BOLT M10X1.5X35mm 8.8 ZP
	4581040	12	WASHER FLAT M10 X 25 X 3 ZP
	3194818	4	PLATE NUT ASSY HILUX BAR 150N
	6151360	12	BOLT M12 x 1.75 x 35 Gd 8.8 ZP
	6151360	6	BOLT M12 x 1.75 x 35 Gd 8.8 ZP
	6151357	4	BOLT SEMS M10 X 30 ZP Gd 8.8
FIT BAR TO MOUNTS	4581007	6	WASHER FLAT ½ x 1 1/2 x 4MM SILVER TZP
	6151428	6	NUT FLANGE M12 X 1.75 ZP
	6151321	4	NUT FLANGE M10 x 1.5 ZP
	3500880	1	GRILLE SPLIT PAN KIT
	5100200	1	BUFF KIT 2PCE FRONT SECTION KIT
FIT LIGHTS AND	6821287	1	LAMP LED INDICATOR CLEARANCE KIT
MOULDINGS	3163197	1	SURROUND ARB FOGLIGHT KIT
	6821116	4	GROMMET NYLON SNAP IN TYPE
	6821298	2	HARNESS EXT 19W FOG LAMP
	3750447R	1	BRKT WING BRACE RH HLX SAH 18ON
	3750447L	1	BRKT WING BRACE LH HLX SAH 18ON
FIT WING BRACES	6151321	4	NUT FLANGE M10 x 1.5 ZP
	6151357	4	BOLT SEMS M10 X 30 ZP Gd 8.8
	6523237	1	STONE PANEL SUITS HILUX
	6523236R	1	WING PANEL SUITS HILUX RHS
	6523236L	1	WING PANEL SUITS HILUX LHS
	6151315	8	NUT CAGED M6
	6151234	6	BOLT M8 x 1.25 x 25 Gd 8.8 BP
FIT STONE GUARDS	4581082	8	WASHER FLAT, M6 x 19 x 1.6 BZ
	6151301	4	NUT CAGED M8
	4581307	6	WASHER FLAT, M8 x 20 x 2 BLK ZN
	6151213	8	BOLT M6x1.0x20 8.8 BZ
	6151213	2	FLANGE NUT M8X1.25 BLK ZN
	6522985	2 1	PRESS FORM WINCH COVER PANEL
FIT WINCH COVER	6151213	4	BOLT M6x1.0x20 8.8 BZ
PANEL		-	BOLT M6X1.0X20 8.8 BZ WASHER FLAT M6 X 12 X 1.3 BLK ZN
FANEL	4584295	4	
	6151223	-	NUT M6 x 1.0 NYLOC ZNB480
	3759488	1	BRACKET REG PLATE FIXED LARGE RAD
	6151384	2	SCREW 10G x 5/8 SELF TAPPING
FIT LICENSE PLATE	6821189	2	GROMMET RND FC 1500 080 090
	6151213	3	BOLT M6x1.0x20 8.8 BZ
	4584295	3	WASHER FLAT M6 x 12 x 1.3 BLK ZN
	6151128	3	NUT FLANGE M6 x 1.0 ZP
	6191030	1	PINCH WELD 520mm
	3789832	1	CUTTING TEMPLATE SUITS HILUX
MISCELLANEOUS	180302	8	CABLE TIE 4.8 x 180mm BLACK

FITTING PROCEDURE

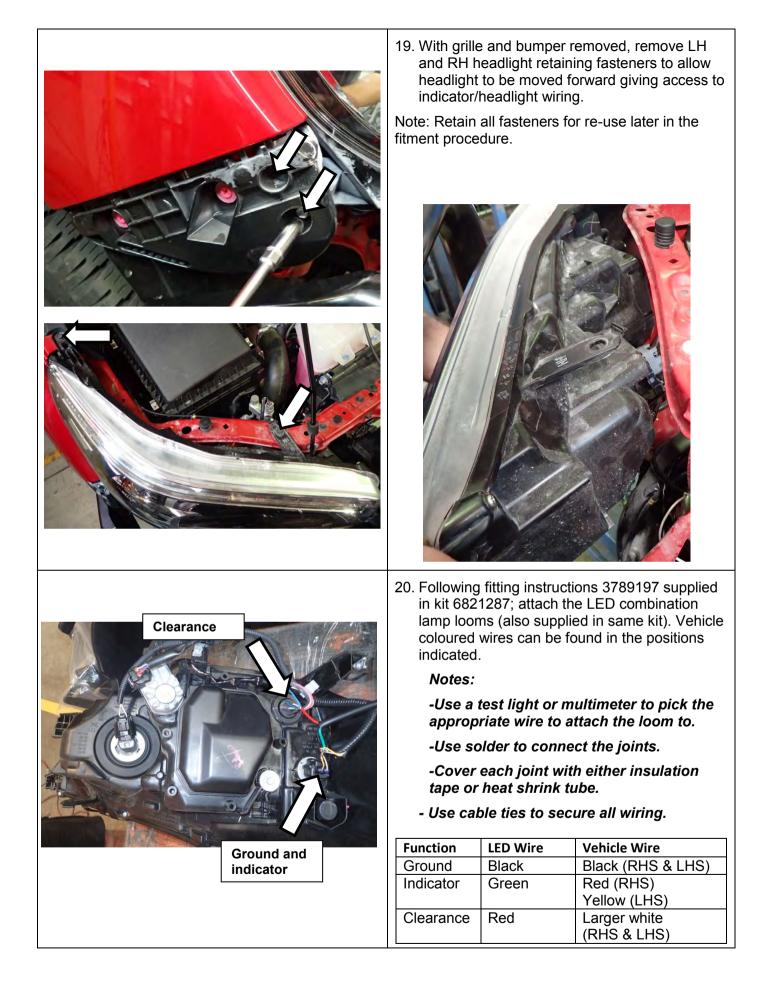


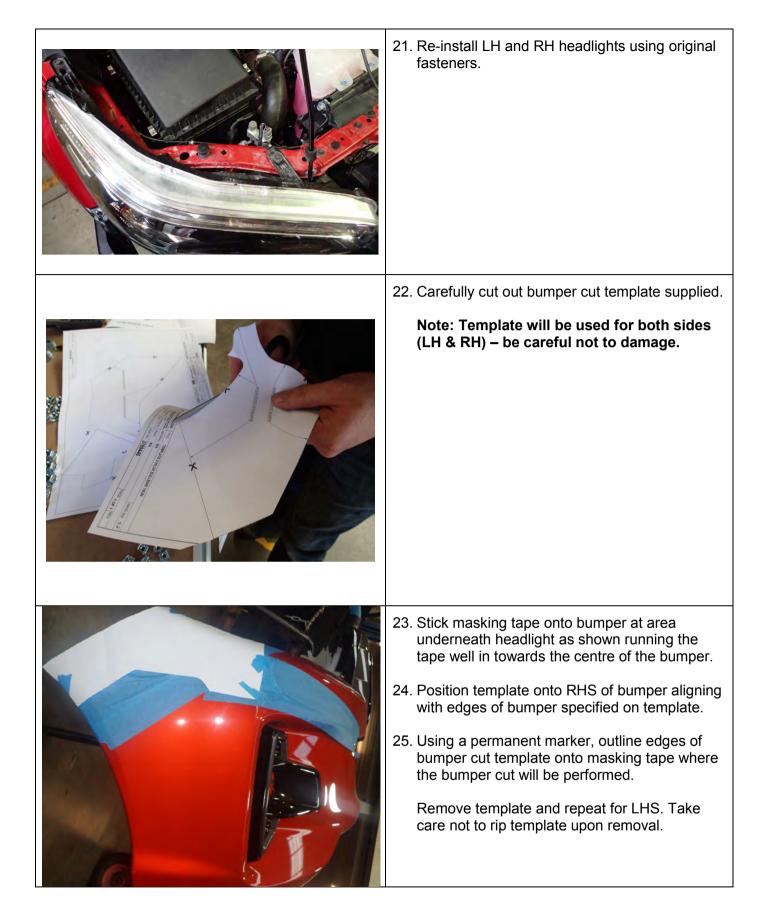
 Remove all fasteners and scrivets retaining bumper along inside edge of wheel arches – (Right hand side shown). Set aside for re-fitment later on.
 Remove the scrivets (2) used to fasten the lower grille tabs to the upper crush panel. (Right hand side shown).
 7. Remove all fasteners and scrivets retaining bumper along lower lip – (Left Hand side shown). Set aside scrivets and fasteners used to attach bumper to OEM stone deflector for re-use later on.
 Remove dressing piece from underside of bumper and discard.

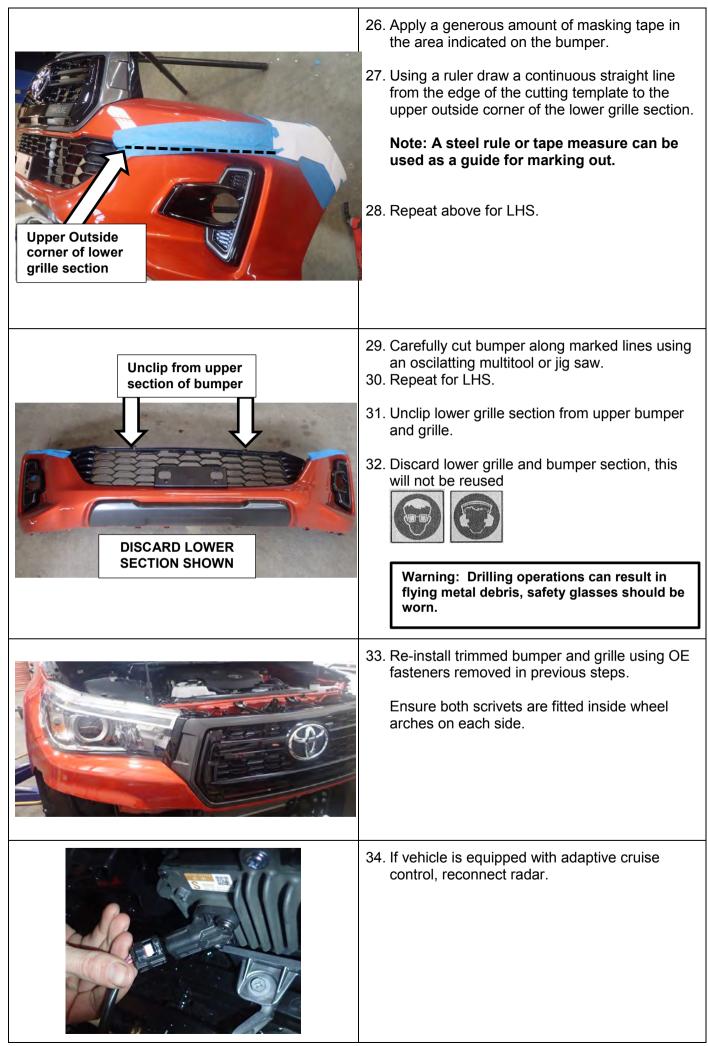
9. If vehicle is equipped with adaptive cruise control, unplug radar (located behind Toyota badge)
10. Ensure inner guards are unclipped from front bumper.
11. Disconnect fog light wiring – (Right Hand side shown).
 12. Remove registration plate and set aside, then carefully remove bumper from vehicle by pulling on each side of the bumper near the wheel arches and working your way towards the centre. Set grille and bumper aside for re-use later in the fitment procedure.

13. If fitted, remove fog lights from bumper and set aside for reuse in bull bar.
 14. Remove plastic lower crush absorber from vehicle and discard. Note: Lower crush absorber is retained by plastic clips. Levering absorber free with a large screw driver may aid removal.
 15. Remove 2 x M10 bolts on both sides (4 total) fixing crash beam to chassis and remove crash beam. Discard crash beam. Note: Retain 4 x M10 bolts for re-use.
 16. Locate air deflector panels and mark up 30mm from bottom edge as detailed in the image – (Right Hand side shown). 17. Use an oscillating multitool or shears to carefully cut lower portion away and discard. Note: Take care not to damage any other components on the vehicle whilst cutting. 18. Carefully remove any burrs or sharp edges with a file and/or sandpaper.

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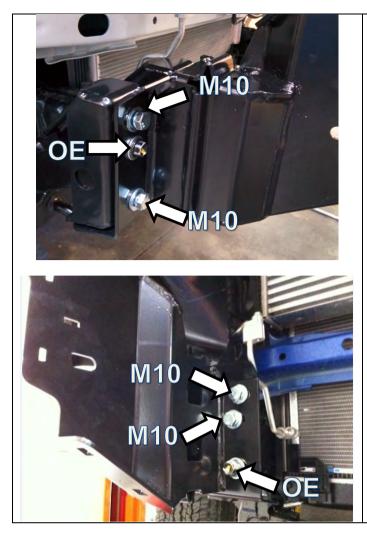




	 35. Fit Pinch weld to RH side along the full length of the cut edge. Carefully trim off any excess length and use remainder for other side. Note: 1 full length of pinch weld, ½ used on each side of vehicle.
<image/>	 36. Insert 2 x M12x1.75 nut plates into RHS chassis rail as shown. Note: 1 x nut plate is used to fasten the outer chassis support to the outside of the face of the chassis and 1 x nut plate is to fasten the inner chassis support to the inner face of the chassis. Install nut plates accordingly.
	 Loosely fasten RHS outer chassis support bracket to outside face of chassis using 2x M12x1.75x35mm bolts and flat washers installed into the previously installed nut plate.
M12	38. Loosely fasten the RHS outer chassis support bracket at the rear hole using M12 x 1.25 x 30 bolt and flat washer installed into OE captive nut in the chassis bracing.
M12 - 0 M12 - 0 M12 x 1.25	NOTE: IF USING A LARGE SIZE SOCKET, IT MAY BE NECESSARY TO PLACE THE SOCKET OVER THE FRONT BOLT BEFORE INSERTING AN EXTENSION THOUGH THE HOLE IN THE FLANGE.

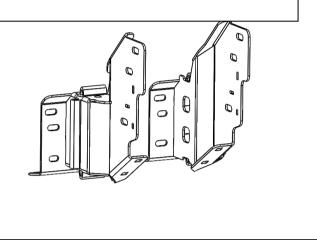
- M12 M12 M12
- Loosely fasten RHS inner chassis support bracket to inside chassis face using 2x M12x1.75x35mm bolts and flat washers installed through the holes into the previously installed nut plate.
- 40. Repeat process to install chassis support brackets on LHS.

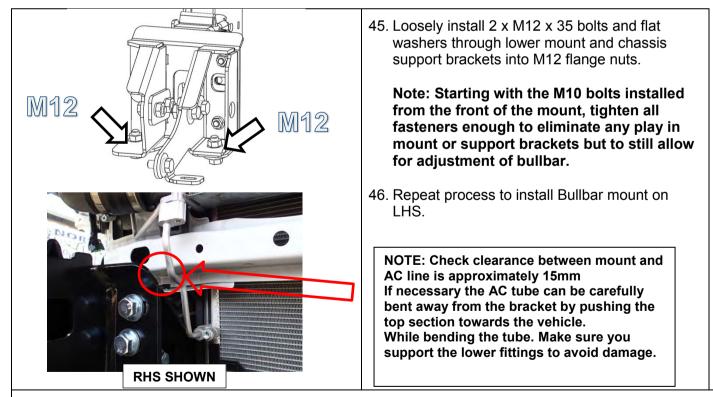
41. On both RH and LH installation it is extremely important that 1 x M10 x 25 x 3mm flat washer per hole is installed on the upper holes between the support brackets and the mount when offering the mount up to the chassis flange. The upper M10 bolts as installed in step below should pass through the mount, spacer washers and the support brackets.
(RH Outside support shown below).



- 42. Loosely install RHS Bullbar Mount onto chassis flange.
 -Install M10x25x3 washers onto 2 x OE M10 bolts (retained at step 15) and re-install into the chassis flange captive nuts (positions as indicated).
- 43. Ensure 2 x M10x25x3 washers are installed between chassis support bracket and mount plate (as detailed in step 41).
- 44. Loosely install 4 x M10 x 30 SEMS bolts and 4 x M10 flange nuts through mount, flange and chassis support brackets.

NOTE: MOUNTS ARE HANDED. RIPPLES ARE ON THE OUTSIDE OF MOUNTS

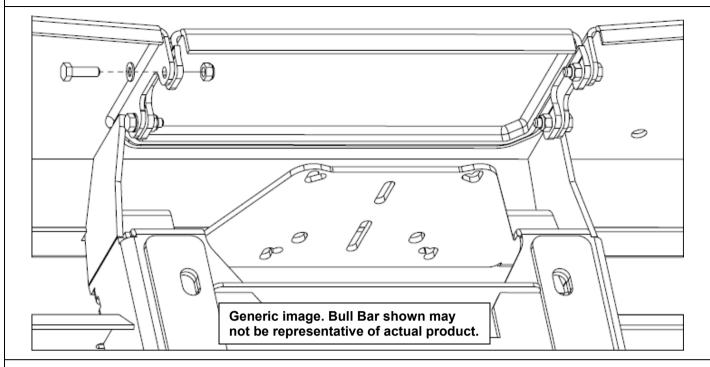




Note: If fitting a winch proceed from here using fitting instructions 3789337 supplied with 3500720 winch install kit. Once the winch is fitted please continue to step 50. If no winch is being fitted continue from here.

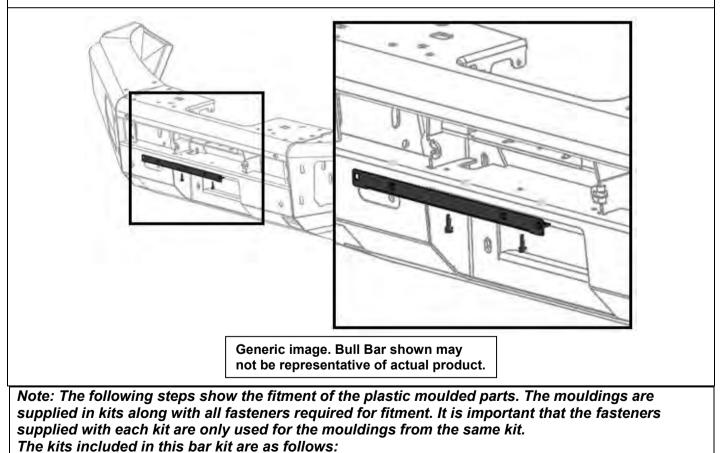
47. Slide the winch cover panel from the bottom up until it is level with the top face of the bar.

48. Fit the winch cover panel to the bar using 4 x M6 x 20 hex bolts, flat washers and nyloc nuts. *Warning: Be careful not to scratch the finish of the winch cover panel.*



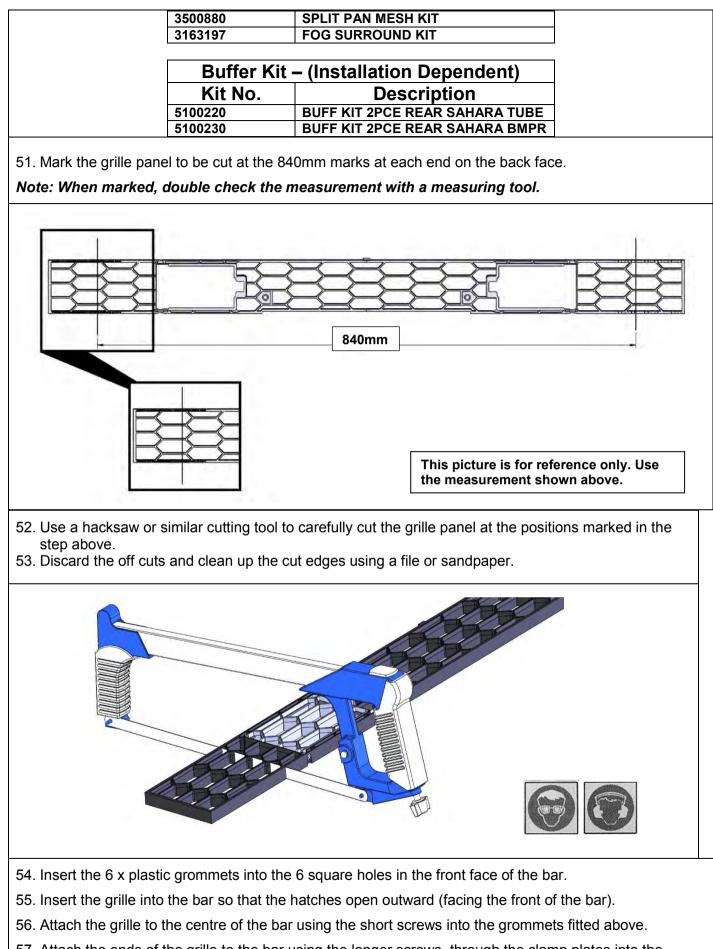
49. Fit the number plate bracket to the top face of the lower-centre pan on the bar using 3 x M6 x 20 hex bolts, flat washers and flange nuts.

Note: If you are fitting a winch, fit the folding number plate bracket supplied in winch install kit "3500720 WINCH INSTALL KIT" – See fitting instructions 3789337

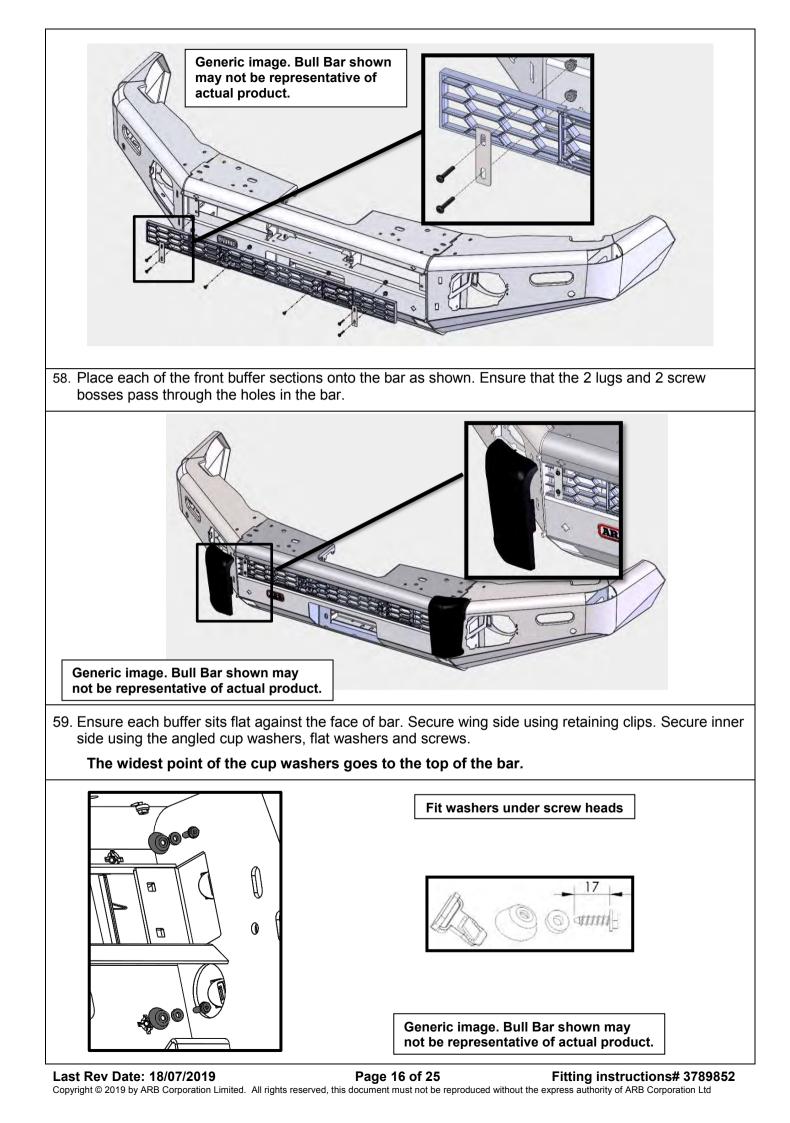


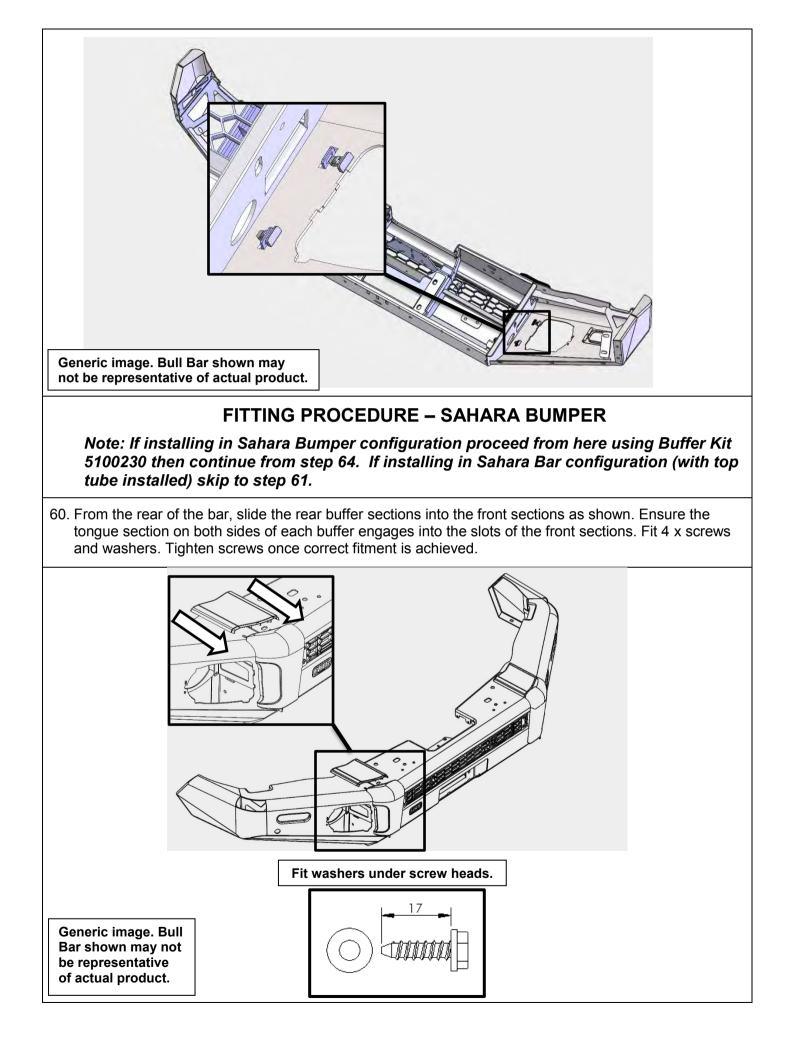
50. Layout the contents of each of the following kits ensuring the contents are kept separate from each other.

Kit No.	Description]
5100200	BUFF KIT 2PCE FRONT SECTION	



57. Attach the ends of the grille to the bar using the longer screws, through the clamp plates into the remaining grommets.

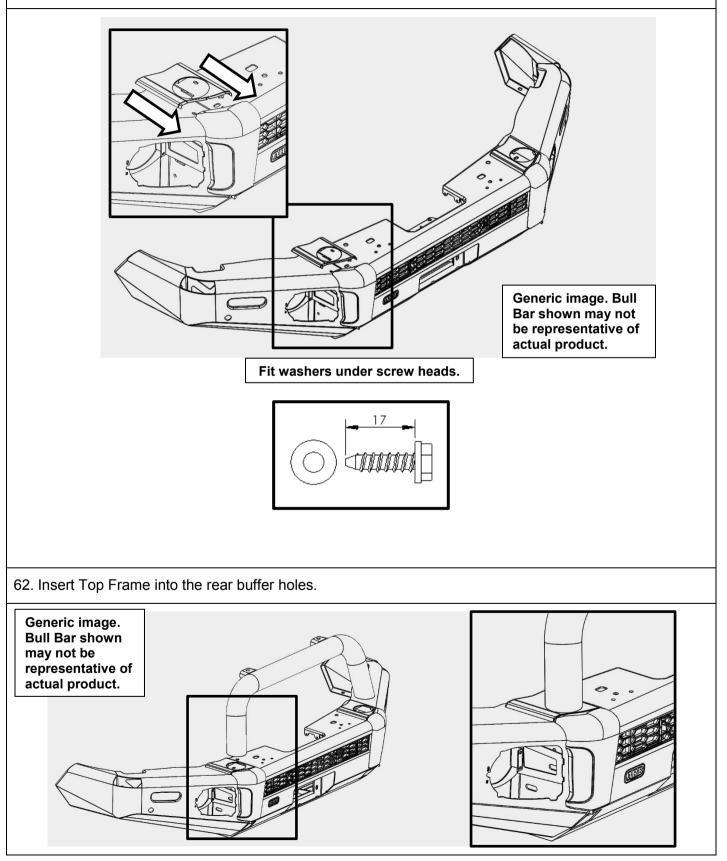




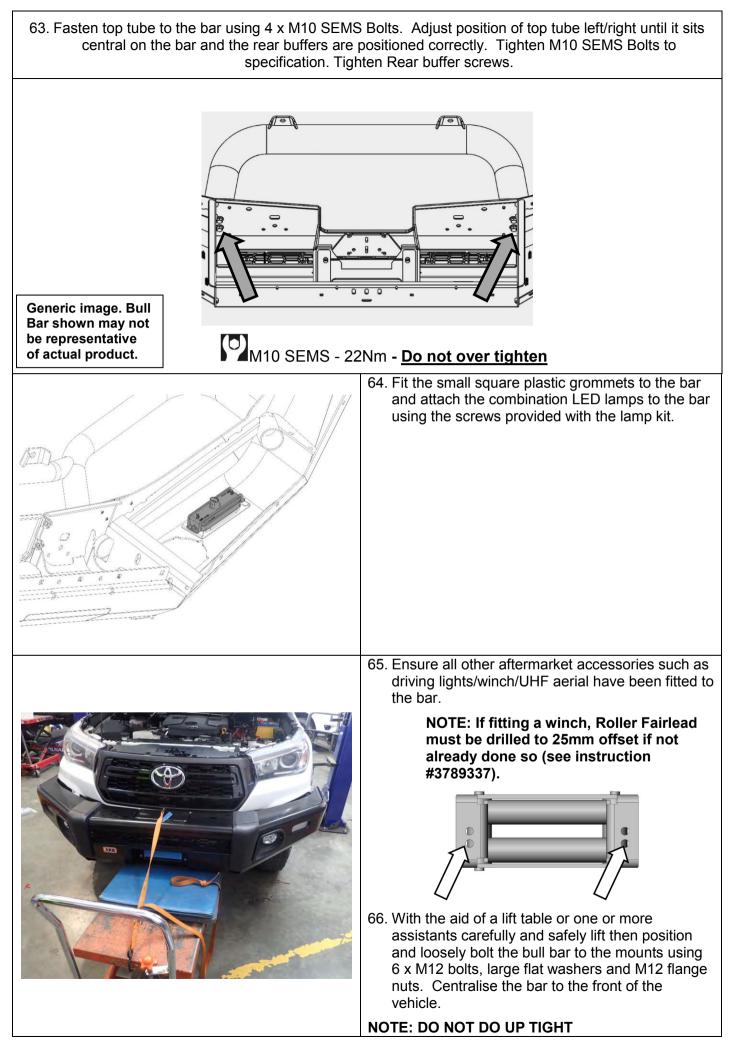
FITTING PROCEDURE – SAHARA BAR

Note: If installing in Sahara Bar configuration (with top tube installed) proceed from here using 5100350 - Sahara Tube Kit, (Buffer Kit 5100220).

61. From the rear of the bar, slide the rear buffer sections into the front sections as shown. Ensure the tongue section on both sides of each buffer engages into the slots of the front sections. Fit 4x screws and washers. Do Not Fully Tighten.



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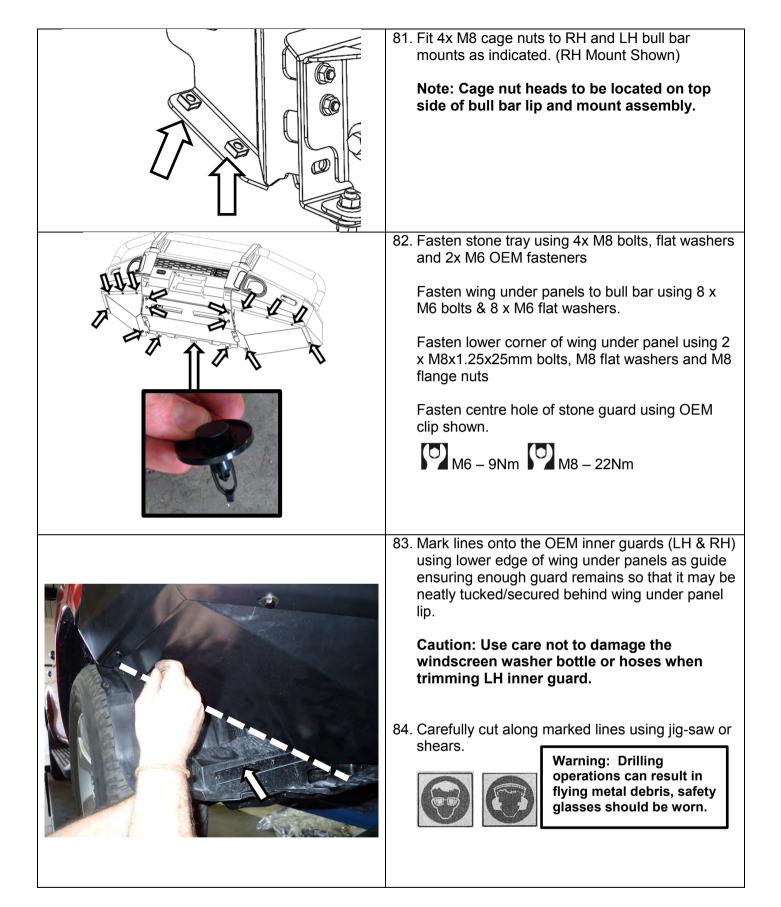
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to the second se	 70. Position the bar so that it is level with the bumper cut profile as shown and there is an even gap of 15-20mm between the wing edge and bumper cut trim. 71. Once bar is visually in correct position, tighten 6 x M12 fasteners joining bull bar to mount assembly. M12 – 77Nm
<image/>	 72. Drill 4 x Ø10mm holes (2 per side) through mount assembly using existing holes in bull bar as guide. 73. Add anti-corrosion touch up paint to area drilled. 74. Fasten 4x M10 SEMS bolts and flange nuts to pinning holes. Image: M10 - 44Nm Image

 76. Assemble fog lights into surrounds as per instruction no. 3789800 supplied with surround kit 3163197. Notes: Optional clear covers (3500680) can now be fitted to the housings using fitting instruction no. 3789191.
77. Using extension harnesses supplied, connect fog lights to vehicle loom.
 78. Remove all outer fasteners joining mount assembly to chassis brackets (2 x M10 and 1 x M10 OE bolts each side). Assemble and install wing braces using 2 x M10 SEMS bolts and flange nuts on each brace. 79. Reinstall all mount fasteners and torque to specification.
80. Fit 4 x M6 cage nuts to each wing under panel. Note: Cage nut heads to be located on top side.



<image/>	 85. In line with the bottom edge of the lower bumper trim and the top edge of the bulbar wing tip use a pair of shears to cut a section approximately 20mm x 20mm from the inner guard outer edge to allow it to be pushed into the end of the wing. (RH Shown). 86. Push inner guard panel inside the end of the wing and behind the rear lip of the wing underpanels.
	87. Re-install upper radiator cover panel and fasten using 8 x OE scrivets.
	88. Fit the plastic plugs into the square holes in the registration plate bracket. Fit the registration plate to the bull bar using the black self-tapping screws.89. Discard all remaining fasteners.

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FITTED PRODUCT – TOYOTA HILUX Summit bull bar

NOTICE: ONCE SUMMIT 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 and clearance lights and that they are functioning correctly.

