

Part Number: Product Description: Suited to vehicle/s: Optional Fitting Kits: 3414670

COMMERCIAL BULL BAR

06/2020 ON TOYOTA HILUX (WIDE BODY)

3500520 - ARB AUX Light Loom (Non-Factory fog light vehicles) 3500890 – LED Fog Light Kit (LH&RH Lights) 3540050 - Winch Install Kit W90394 – Warn Control Socket Relocation Kit 3500770 - Smittybilt X20 Winch Install Kit

3500610/20 - Warn Zeon Wire/Synthetic Rope Winch Install Kit

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
MULTITOOL OR JIGSAW WITH BLADE SUITABLE FOR PLASTIC	50mm LOW TACK MASKING TAPE
FILE	UTILITY KNIFE
TAPE MEASURE	TOUCH UP PAINT ANTI CORROSION
STEEL RULER	TORQUE WRENCH
MATTE BLACK SPRAY PAINT	-

HAVE AVAILABLE THESE SAFETY ITEMS WHEN FITTING PRODUCT:

Protective eyewear



Hearing protection



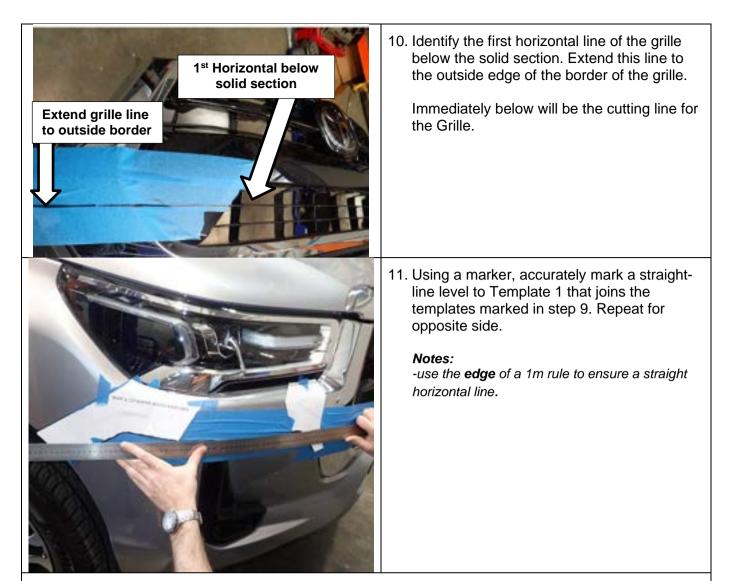
NOTE: 'WARNING' notes in the fitting procedure relate to OHS situations, where to avoid a potentially hazardous situation it is suggested that protective safety gear be worn or a safe work procedure be employed. If these notes and warnings are not heeded, injury may result.

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

PARTS LISTING					
APPLICATION.	PART NO.	QTY	DESCRIPTION		
	3759738R	1	BRKT MNT STEEL HILUX 150N RHS		
	3759738L	1	BRKT MNT STEEL HILUX 150N LHS		
	3759667R	1	BRKT CHASSIS OUT HILUX 150N RH		
	3759667L	1	BRKT CHASSIS OUT HILUX 150N LH		
	3759666R	1	BRKT CHASSIS IN HILUX 150N RHS		
	3759666L	1	BRKT CHASSIS IN HILUX 150N 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		
	4581007	14	WASHER FLAT ½ x 1 1/2 x 4MM SILVER TZP		
	6151357	8	BOLT SEMS M10 X 30 ZP Gd8.8		
	6151321	8	NUT FLANGE M10 x 1.5 ZP		
	4581040	8	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		
	6523089	1	PANEL STONE GUARD HILUX 150N		
	6151234	8	BOLT M8 x 1.25 x 25 Gd 8.8 BP		
	4581307	8	WASHER FLAT, M8 x 20 x 2 BLK ZN		
	6523077R	1	PANEL WING RH COMBAR HILUX150N		
	6523077L	1	PANEL WING LH COMBAR HILUX150N		
FIT STONE GUARD	6151213	10	BOLT M6 x 1.0 x 20 Gd8.8 BZ		
	4581082	10	WASHER FLAT, M6 x 19 x 1.6 BZ		
	6151548	4	NUT FLANGE M8 x 1.25 GR8.8 BTZP480		
	6151315	10	NUT CAGED M6 0.7-1.6		
	6151301	4	NUT CAGED M8 3.3-4.7		
	3759772	2	WING PANEL BRACKET		
	3163015	1	OS LIGHT INDICATOR SURROUND KIT		
FIT LIGHTS	6821287	1	LAMP LED INDICATOR CLEARANCE		
	6821189	2	GROMMET RND FC 1500 080 090		
FIT LICENSE PLATE	6151384	2	SCREW ST PHDCOL PH 5.2 X 16 TBZP480		
	3163091	2	PLUG BLANKING BLK 17.4mm		
PARKING SENSOR FITMENT	3195099	2	SENSOR CLAMPING PLATE		
	6151223	4	NUT HEX NYLOC M6X1.0 ZNB 480		
	6191037	2	PINCH WELD 1000mm NARROW LONG		
MISCELLANEOUS	180302	6	CABLE TIE 4.8 x 180mm BLACK		
	37800069	2	CUTTING TEMPLATE SUITS HILUX		

FITTING PROCEDURE		
	Note: Read the instructions thoroughly before starting 1. Remove all fasteners and scrivets retaining bumper along inside edge of wheel arches – (Right hand side shown). Set aside for later on.	
	 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. 	
2 months	3. Remove dressing piece from underside and discard.	
	 Ensure inner guards are unclipped from front bumper. 	

	Disconnect fog light wiring and if equipped front parking sensors – (Right Hand side shown).
	Apply masking tape to each side of bumper as shown adjacent.
	Carefully cut out 2 piece bumper cut template supplied. Note: Both Template 1 and 2 will be used for both sides (LH & RH) – be careful not to damage.
	Position both templates onto RHS of bumper aligning with edges of bumper specified on
	template. Using a permanent marker, outline edges of
	bumper cut template onto masking tape where the bumper cut will be performed.
	Remove template and repeat for LHS. Take care not to rip template upon removal.
(LHS shown without tape for clarity)	



12. Cutting line should appear as shown:



 13. Open the bonnet and remove all scrivets (8) retaining plastic cover. Set aside scrivets removed for re-use later on. HINT: Depress centre to remove.
14. Remove plastic cover from above grille and set aside, this will be reused.
 15. Remove upper grille retaining screws (4). Set aside for re-fitment later on. Remove centre grille retaining screw (see arrow) Set aside for re-fitment later on.

<image/>	<text></text>
	17. If vehicle is equipped with Toyota Safety sense, unplug radar (located behind Toyota badge).
	 18. 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 on a soft non- marking surface for cutting.
	 19. If vehicle is equipped with parking sensors, using a paint pen or white marker, label each parking sensor (Left or Right) prior to removing from bumper. Once marked, un clip parking sensors (2) from bumper and store for refitment.

 Last Rev Date:
 15/10/2020
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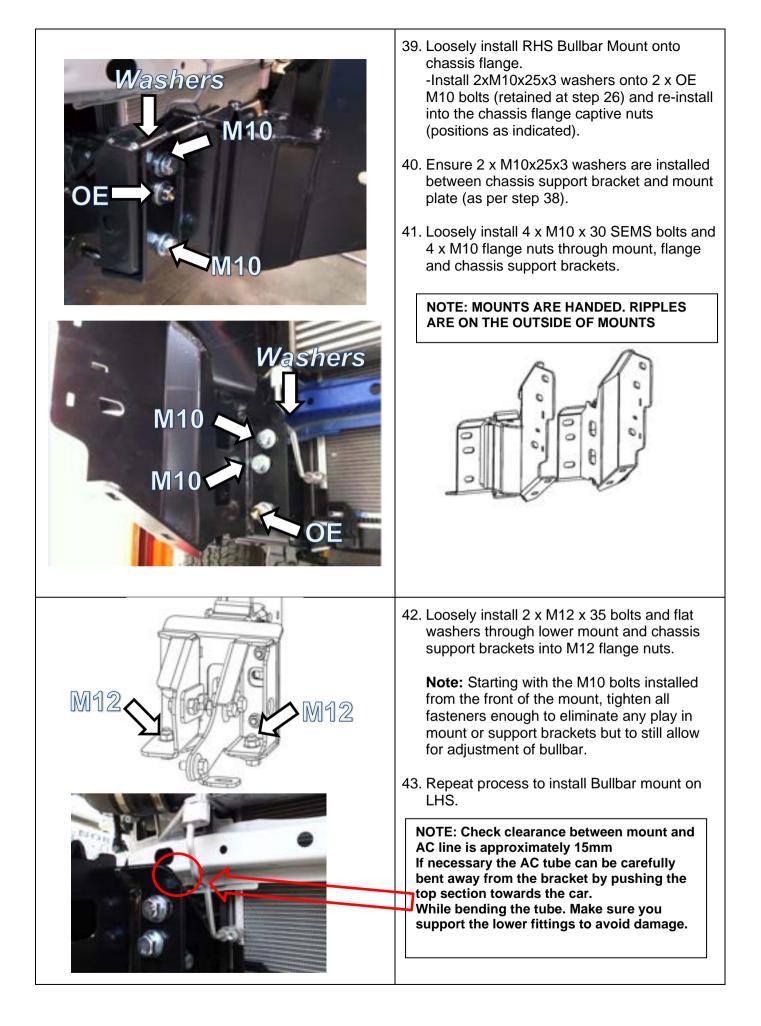
- 22. Remove masking tape. Use a file to de-burr the cut edge of the remaining bumper bar section.
- 23. Re-install trimmed bumper, grille and plastic cover using OE fasteners removed in previous steps. Ensure both scrivets are fitted inside wheel arches on each side.
- 24. Apply pinch weld trim to the cut edge of the bumper bar.



MOLINAR	 25. Remove plastic lower impact absorber from vehicle and discard. Note: Lower impact absorber is retained by plastic clips. Levering absorber free with a large screw driver may aid removal.
	 26. 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.
<image/> <text></text>	 27. Locate air deflector panels and mark up 30mm from bottom edge as detailed in the image – (Right Hand side shown). 28. Use scissors or shears to carefully cut lower portion away and discard. Note: Take care not to damage any other components on the vehicle whilst cutting. 29. Carefully remove any burrs or sharp edges with a file and/or sandpaper.

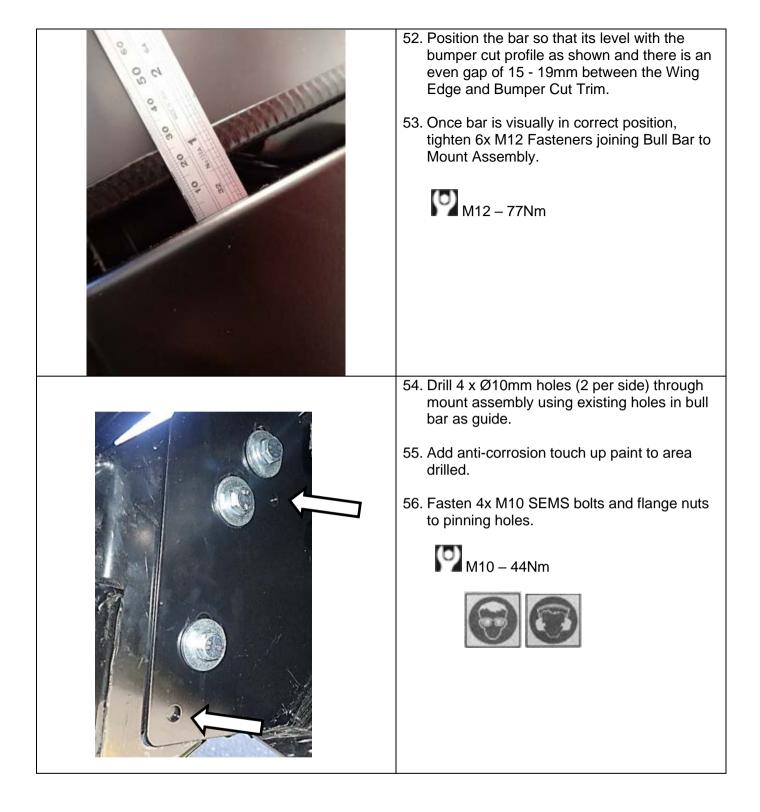
both th each h To ach clearar	e black and g eadlight. ieve better a nce light wirir	he engine bay, unclip grey connectors from ccess for indicator and ng, feed loom out of ead lights as shown
supplie combir same k found i <i>Note -Use the a to. -Use -Cov tape</i>	ed in kit 6821 hation lamp lo kit). Vehicle c n the position s: a test light ppropriate v solder to jo er each join or heat shri	or multimeter to pick vire to attach the loom in wires. with either insulation
Indicator Clearance	Green Red	RHS: Large Ø Red (PIN 6) LHS: Yellow (PIN 6) RHS: Grey (PIN 3)
		LHS: Dark Green (PIN 3)
chassis Note: 1 outer c face of fasten	s rail as show x nut plate i hassis suppo the chassis the inner cha the chassis.	

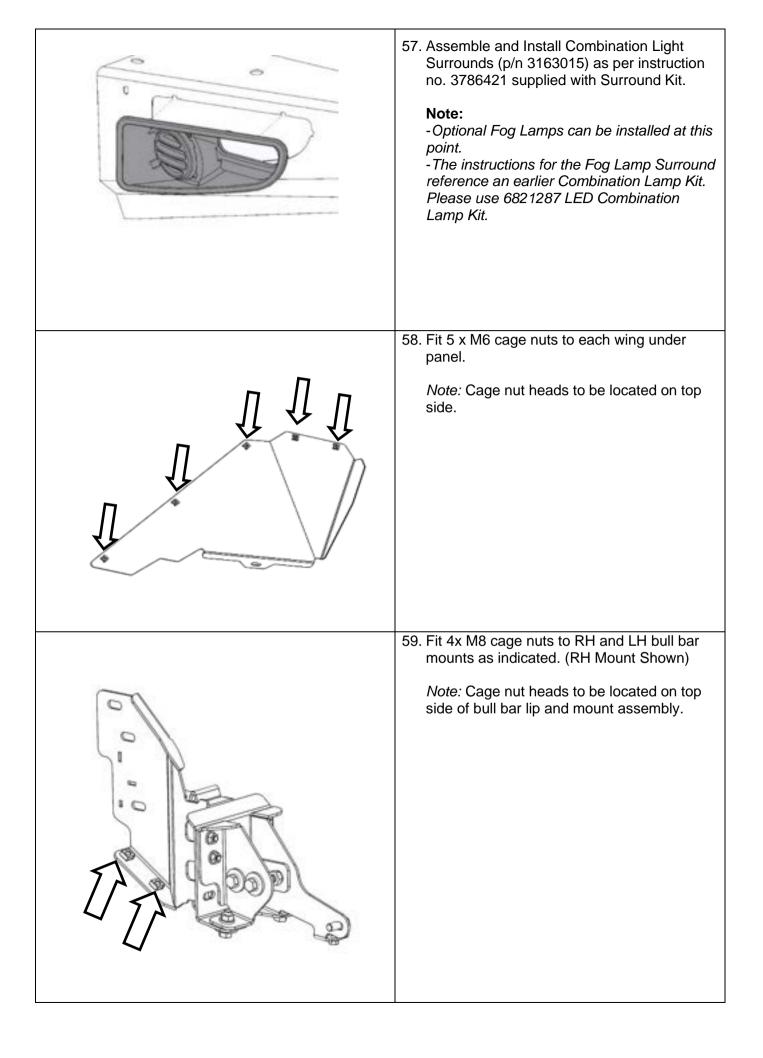
M12 M12 M12 × 1.25	 34. Loosely fasten RHS outer chassis support bracket to outside face chassis using 2x M12x1.75x35mm bolts and flat washers installed through the front holes into the previously installed nut plate. 35. Loosely fasten the RHS outer chassis support bracket at the rear hole using M12 x 1.25 x 30 bolts and flat washer installed into OE captive nut in the chassis bracing.
	 36. 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. 37. Repeat process to install chassis support brackets on LHS.
<section-header><section-header><section-header><image/></section-header></section-header></section-header>	38. IMPORTANT: On upper mounting holes between the support brackets and the mount install 1 x M10 x 25 x 3mm flat washer per hole.(4 locations RH outer & inner, LH outer and inner)) (RH Outside support shown below).

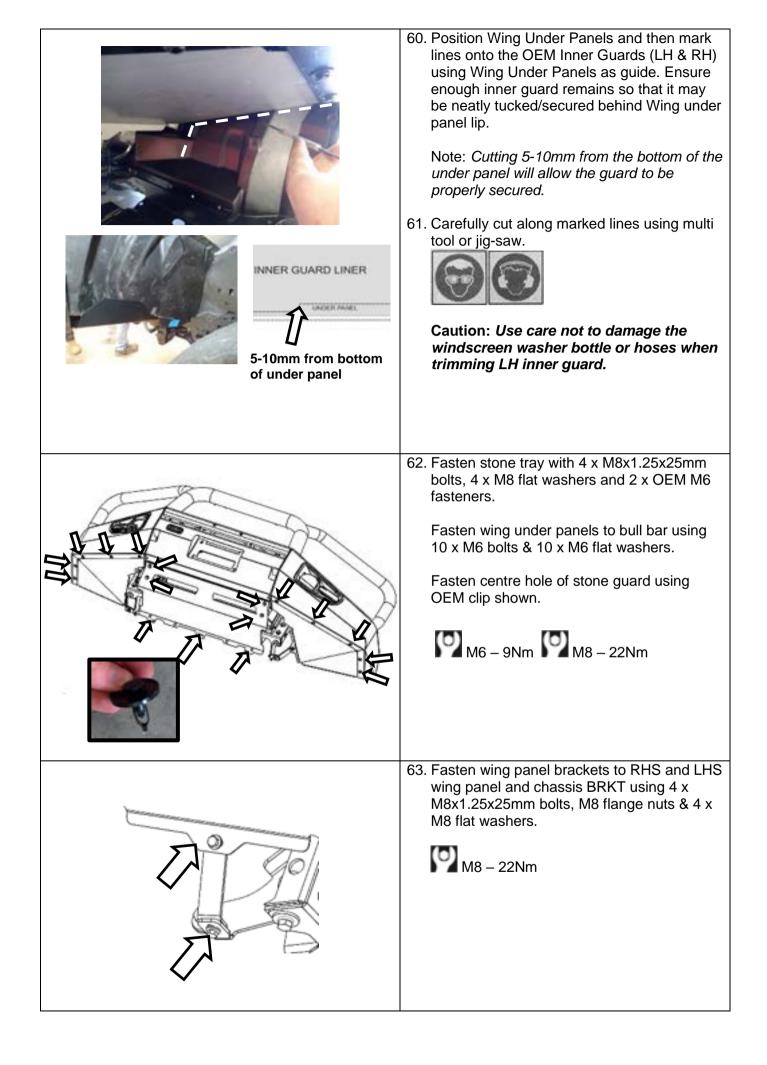


	44. Press dome plugs into sensor holes in bar. (these will be used to accurately locate the sensor retaining brackets)For vehicles not equipped with parking sensors skip to step 47.
RAISED SECTION TAIL	45. Assemble the sensor retaining plate onto the plastic retainer (set aside in step 20) so that the tail of the plate is on the opposite side to the raised section.
DOME PLUG Tail must point outboard	 46. Assemble retainer and plate onto the inside of wing aligning mounting holes with studs. (tail outboard) The dome plug installed at step 44 should hold the retainer concentric to the sensor hole in the wing.
	 47. Fasten assembly to bullbar by torqueing M6 Nyloc nuts to specification. Remove dome plugs and press RHS sensor into black retainer. CHECK SENSOR IS CONCENTRIC IN HOLE, IF NOT ADJUST. Repeat for LHS. M6 – 9Nm
	Ensure all other aftermarket accessories such as driving lights/winch/UHF aerial have been fitted to the bull bar. NOTE: If fitting a winch, Roller Fairlead must be drilled to 25mm offset if not already done 48. With the assistance of another person, place the bar on the mount brackets. Warning: Due to the weight of the bar and
MOLNAR	winch if fitted, it is advised that you use some form of mechanical assistance when lifting the bar onto the vehicle such as an elevating trolley.

49. Loosely fasten bar to mounts using 6 x M12 x 1.75x35mm bolts, 6 x M12 flat washers and 6 X M12 flange nuts.
 50. Adjust position of bar left/right until it's sitting central to body, then tighten all fasteners joining mount assembly to chassis brackets (4x M10 and 2x M10 OE bolts each side). M10 – 44Nm
51. Tighten all inner and outer M12 chassis support bracket fasteners.







	64. In line with the bottom edge of the lower bumper trim and the top edge of the bull bar wing tip use a pair of shears to cut a section approximately 20mm x 80mm from the inner guard outer edge to allow it to be pushed into the end of the wing. (RH Shown).
20mm 1 1 80mm	65. Push inner guard panel inside the end of the wing and behind the rear lip of the wing under panels.
	66. Remove the scrivet screw from the scrivet clip removed earlier and set aside.
	67. Install scrivet clip onto inner guard and bumper outer end as shown.
	Note: Removing upper scrivet (as pictured) may assist during this process.
	68. Using the hole in the clip as a guide drill through the inner guard and bumper as shown using a 3mm drill bit.
	69. Remove clip and set aside.

	 70. Using a 7mm drill bit, drill the previously drilled 3mm holes in the inner guard and bumper out to 7mm. Note: Pull the bumper end away from the inner guard (as pictured) and drill 1 x hole at a time rather than drilling straight through both holes.
	71. Re-Install clip and scrivet as shown.
	72. Fit the plastic plugs into the square holes in the bull bar. Fit the registration plate to the bull bar using the black self-tapping screws.73. Discard all remaining fasteners.
FITTED PRODUCT – TOYOTA H	ILUX COMMERCIAL BULL BAR
 ONCE BAR IS FITTED: Ensure all bolts are tensioned correctly. All wiring is clear of sharp edges or moving surfaces and is secured properly. Piping is secured well clear of sharp or moving components. Check operation of winch if fitted. Check all wiring and connections are functioning correctly. IF VEHICLE IS FITTED WITH 'TOYOTA SAFETY SENSE', TO PREVENT MALFUNCTION OF RADAR: DO NOT fit winch control boxes to top pan of bull bar DO NOT fit driving lights larger than ARB AR21 Intensity lights. 	

