



# FITTING INSTRUCTIONS

Part Number: **3415210 & 3415207**  
Product: **COMMERCIAL & TGS BULL BAR (suitable for 12000lb winch)**  
Suited to vehicle/s: **TOYOTA LANDCRUISER 200 SERIES 10/2015 ON  
GX & GXL Models Only**

Optional Kits: **3500530 - AUX FOG LOOM (non-factory fog lamp vehicles)**  
**6821201 - ARB FOG KIT**  
**3540050 - WINCH INSTALL KIT**  
**3500770 – SMITTYBILT X20 WINCH KIT**  
**3500610/620 – WARN ZEON WIRE/ROPE KIT**  
**3500410 – WARN XDC CONTROL BOX BRKT**

## 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
Torque Wrench (9-102Nm)	Marking pen
Half round file	Soft Hammer
Metric hex&torx key set	Loctite© 262 or equiv.
Wide masking tape	Stanley knife & Multi-tool
Small Spirit Level	Tape Measure & 2 x 300mm rulers
Right Angled Drill	Paint black fast drying

### HAVE AVAILABLE THESE SAFETY ITEMS WHEN FITTING PRODUCT:

Protective eyewear 	Hearing protection 
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**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
<b>Mount Brackets To Chassis</b>	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
	6151435	2	Nut Clevis
	5846400	2	Packer M12 x 8mm
<b>Brace Assembly</b>	4681274	1	Brace
	6151357	7	SEMS Bolt M10 x 1.5 x 30mm
	6151321	7	Nut Flanged M10 x 1.5
<b>Bull Bar To Mount Bracket Assy</b>	6151357	4	SEMS Bolt M10 x 1.5 x 30mm
	6151321	4	Nut Flanged M10 x 1.5
	6151360	6	Bolt M12 x 1.75 x 35mm
	6151428	6	Flange Nut M12 x 1.75
	4581049	6	Washer Flat M12
	4581064	6	Washer Spring M12 tzp480
<b>Stone Tray to Bull Bar</b>	6522683	1	Stone Tray
	6151300	4	Nut Cage M6
	6151711	4	Screw BTN HD TX M6 x 25 BTZP480
	4581082	6	Washer Flat M6 x 16 x 3
	4581287	6	Washer Spring M6
	6151270	2	Bolt M6 x 40
	4721518	2	Spacer Tube 18mm
<b>Fit Lights and Mouldings</b>	6821287	1	Lamp Led Indicator Clearance Kit
	3163015	1	OS Light Indicator Surround Kit
<b>Number Plate To Bull Bar</b>	6821189	2	Grommet round
	6151384	2	Screw self-tapping pan head
<b>Wing Inner Panels</b>	6523075R	1	Panel Wing LC200 RH
	6523075L	1	Panel Wing LC200 LH
	6151315	10	Nut Caged M6
	6151711	10	Screw BTN HD TX M6 x 25 BTZP480
	4581082	10	Washer Flat M6 Blk
	4581287	10	Washer Spring M6 Blk
	3759754	2	Brkt Wing Panel LC200
	6151546	4	Bolt M8x1.25x20
	4581075	4	Washer Flat M8
	4581047	4	Washer Spring M8
	6151132	4	Nut M8 Flanged
<b>Miscellaneous</b>	6191030	2	Trim Pinch Weld 520mm
	3789459	1	Template Bumper Cutting
	180302	6	Cable ties

## REMOVAL OF BUMPER



1. Remove number plate



2. Remove inner guard bumper retaining screws three per side using T30 Torx key



3. Remove lower trim panel sets on each side, which attach to bumper and engine protective plate area. These will not be reused.



4. 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.



5. Remove lower bumper retaining screws.

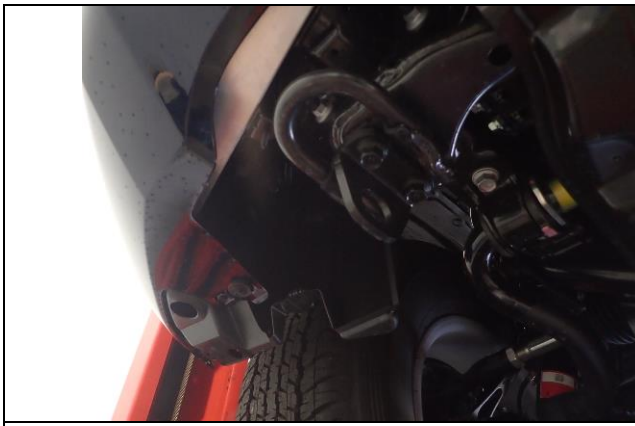


6. Remove plastic engine bay cover above grille area and set aside. Press down on centre of plastic plugs with small screwdriver or similar to release.



7. Remove retaining screws from top of grille
8. Lift upper RH and LH grill corners to release from upper clips



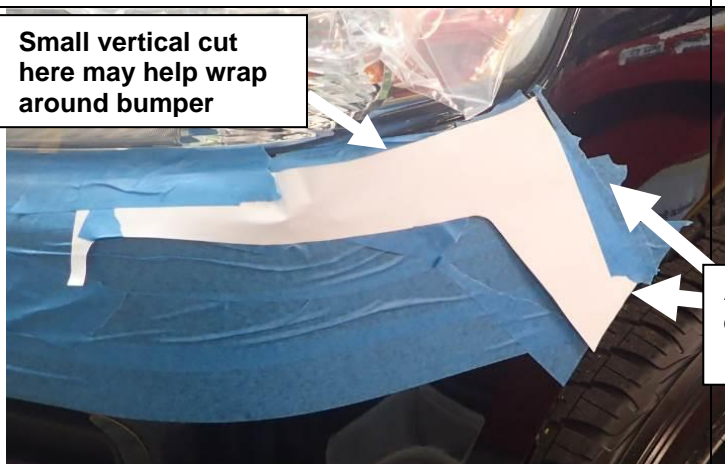


9. Remove right and left splash guards located at the recovery hooks.



10. Apply wide masking tape along bumper as shown, then having cut out template, apply to outer corner of LHS bumper as shown. Align with edge of quarter panel and wheel arch

**NOTE: There is a scale on the sheet to confirm that the template is 1:1 scale, this is critical.**



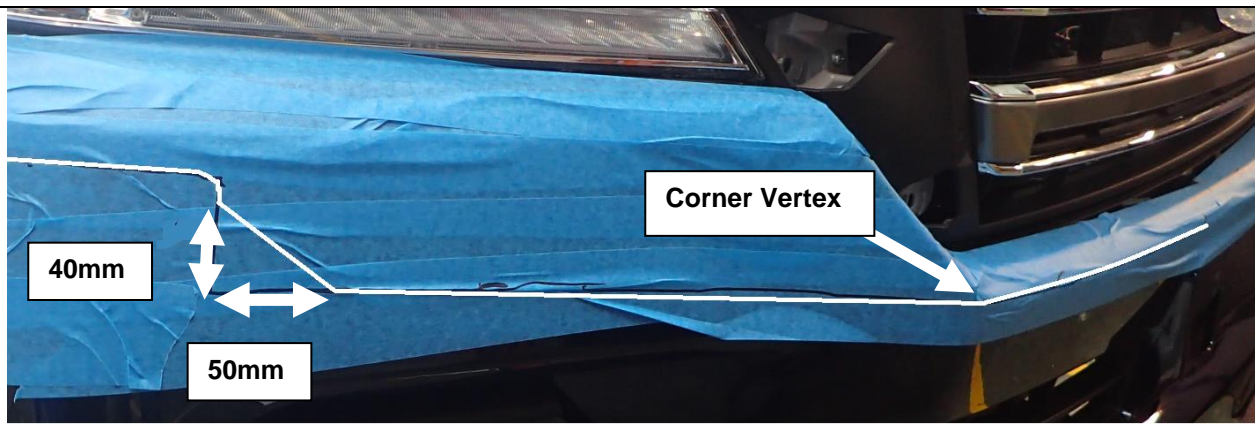
Small vertical cut here may help wrap around bumper

11. Ensure template is correctly positioned along the edge of the bumper both at the front quarter panel as well as along the wheel arch. Mark along cut edge with a marker.

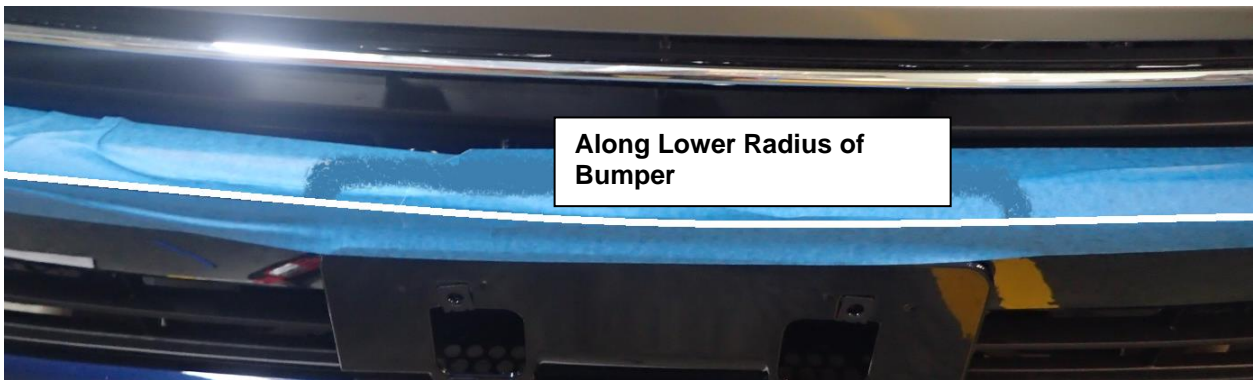
Align on these edges



12. Reverse Template and repeat for RHS.



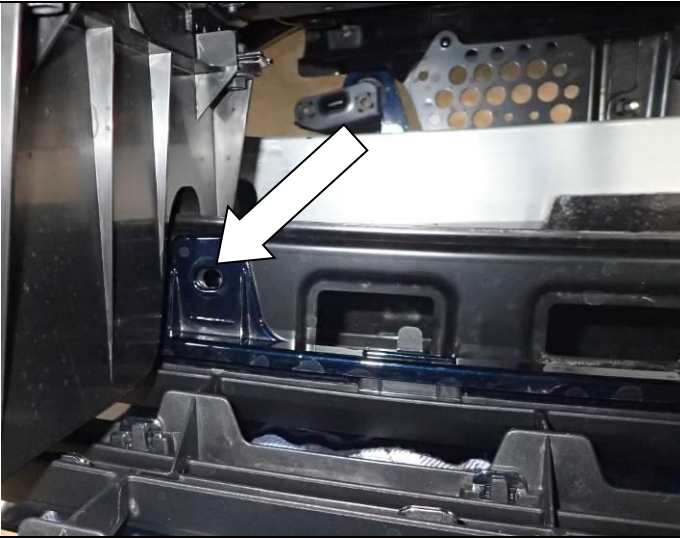
13. From where the template finishes, mark a line diagonally down, running 40mm down and 50mm across towards the centre of the vehicle as shown in picture.
14. With a ruler mark a straight line along the bumper from the end of the diagonal line to the corner vertex.
15. Finally, continue the line around the bumper radius as shown.



16. Repeat for LHS.



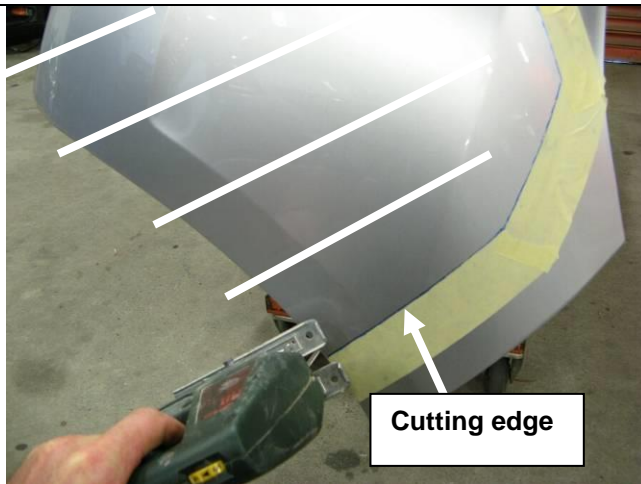
17. Gently remove chrome pieces below headlight by pulling off by hand. (Both Sides)



18. Remove plastic plugs securing upper bumper tabs to cross member.
19. As bumper is being removed, check that all wiring looms and washer lines are disconnected.



20. You can now remove the bumper and grille and place on soft nonabrasive rug or similar, it is best to do this with the help of another person



21. Place bumper face up on a bench or similar so there is sufficient access for the cutting operation
22. Using a jigsaw or Multi-tool carefully cut along the marked edge of the masking tape.
23. Remove burrs from the cut edge of the bumper, and then set aside on a soft nonabrasive surface.

**Warning: Cutting operations can result in flying debris, safety glasses should be worn. Work safely; keep fingers clear of cutting blade.**



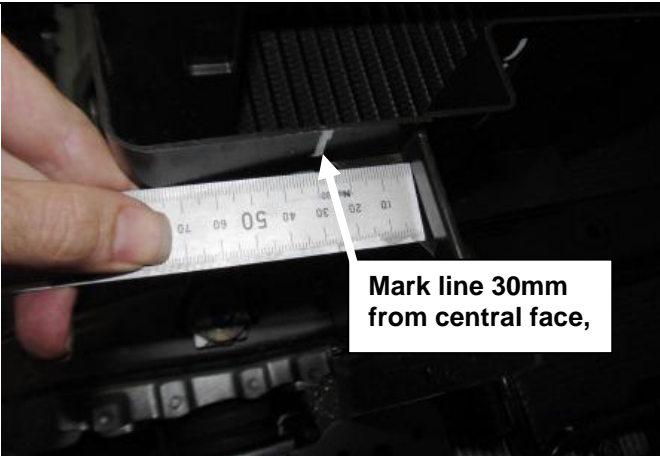




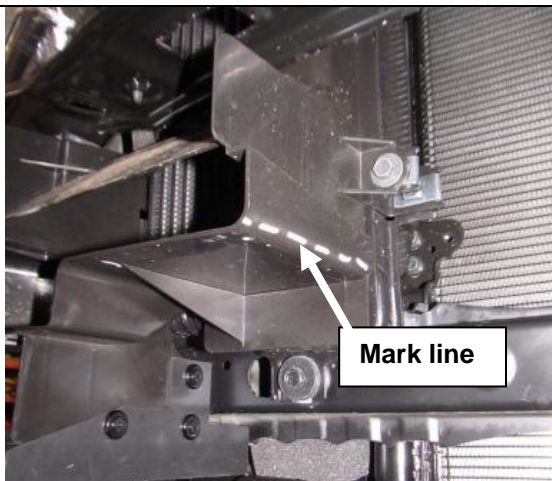
24. Remove foam absorber bar and set aside, this will not be reused
25. Remove crash beam with mount brackets and set aside, retain only M10 flange nuts for reuse.



26. Remove tow hooks and set aside, these will be reused.



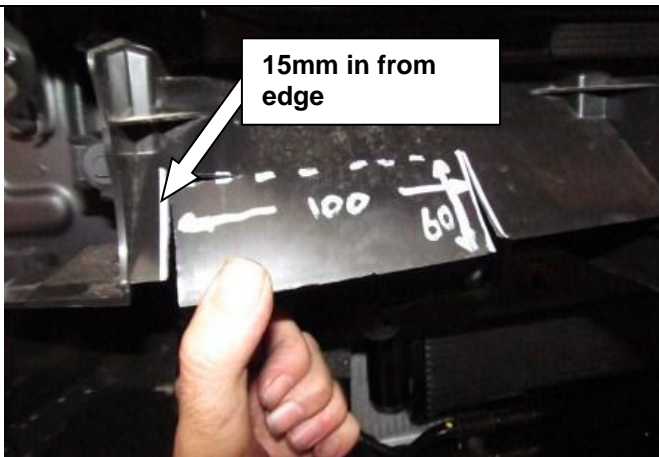
27. Mark the lower section of the air scoop for the power steering radiator as shown. This is for trimming to clear the mount brackets.



28. Now mark along the lower bend as shown, now cut the shroud along the marked edges as shown

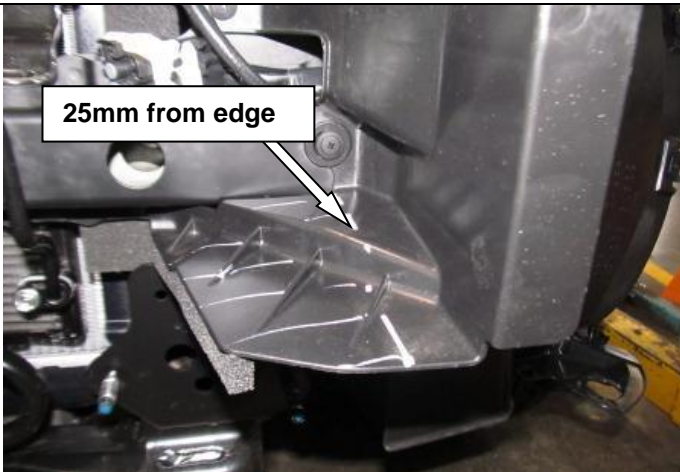


29. Once the cut is complete it should look as displayed.



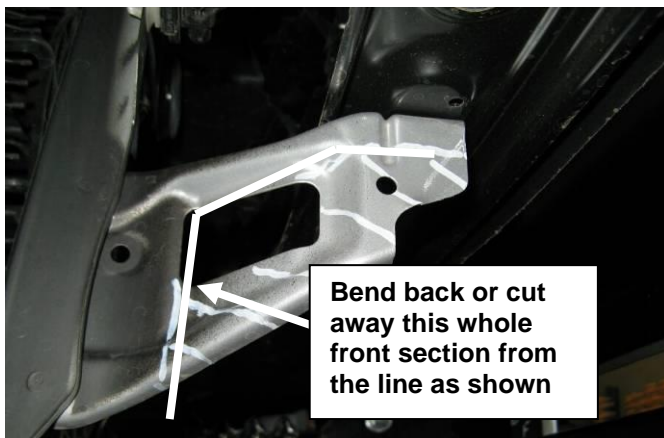
30. Now on the upper face of the power steering shroud mark and cut as shown

*Hint: You can do this on the vehicle as shown.*



31. Mark out and trim the air deflector on the LHS of the vehicle using a Stanley knife or similar.

*Hint: You can do this on the vehicle as shown.*

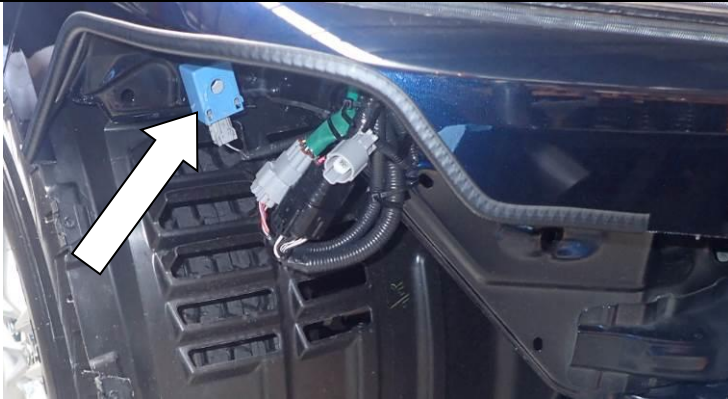


**IF fitting Bushranger DV-12TH 12000lb or Warn M12000 winches ONLY**

32. Undo bolt securing the brace attached to the centre of grille cross member. Relieve or bend back the forward section of the vehicle sheet metal member as shown to clear winch tie rod.



33. Fit the cut bumper and grille and secure.
34. Secure the wing return in the wheel arch area with one of the original dome head screws each side.



35. Fit pinch weld to each end of the bumper as shown.
36. By shielding surrounding areas first, spray paint the blue electrical module black.
37. Gently replace chrome pieces (removed in step 17) below headlight by pushing on by hand. (Both Sides)



38. Insert clevis nut into rectangular hole in the inboard face of chassis, ensuring the threaded end is inserted first.

The nut when fitted correctly should fit square and locate into the chassis rail.

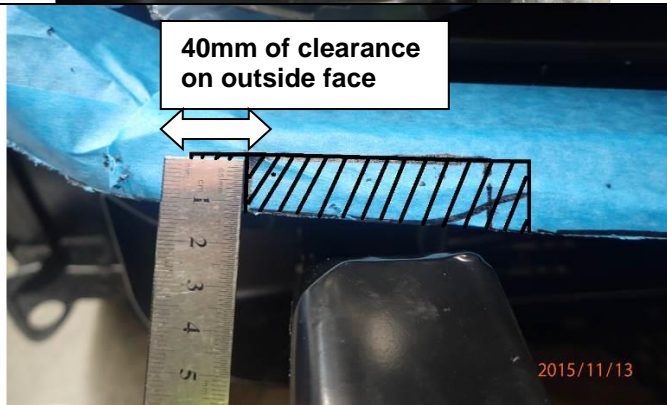


39. Install the chassis stud by fitting 2 nuts to the end of the stud and tightening until thread bottoms out.
40. Remove nuts and repeat for the LHS.



41. Loosely fit the mounting brackets to the chassis securing with the 8mm packers and flange nuts.
42. Secure using existing OE M10 flange nuts, **but do not do up tight.**
43. Refit Tow hooks below mounting brackets with OE fasteners removed in step 26, **but do not do up tight.**

**NOTE: DO NOT DO UP TIGHT**



44. The Mounting brackets will contact the bumper, mark a rectangular cut on the bumper to ensure that there is a minimum of 25mm of clearance between the mounting bracket and the bumper. 40mm clearance is required on the outside face of the mount. Remove shaded area of bumper.

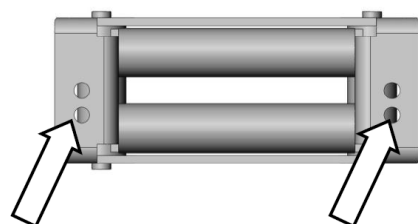


45. Tap the outer flange of the mount brackets until they are hard up against the tow hook mount area. Nip up the lowest outboard nut on each bracket. Brackets should be 935mm apart



46. Ensure all other aftermarket accessories are fitted at this stage, including driving lights, uhf aerial and winch.

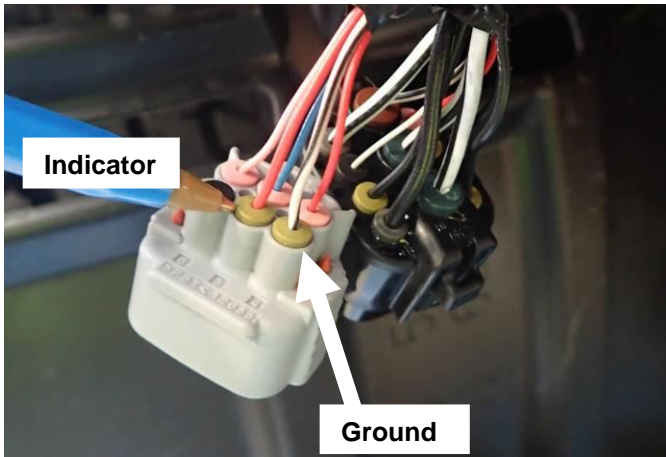
**NOTE: Winch Roller Fairlead must be drilled to 25mm offset if not already done so.**



## CONNECTING LED INDICATOR/CLEARANCE LIGHTS (DRIVERS SIDE)



DRIVERS SIDE:



47. On the Driver's side Remove OE wiring loom bracket as shown with Phillips head screw driver. Detach plugs from bracket and discard bracket, it will not be reused. Unplug both the black and grey plugs from their sockets.

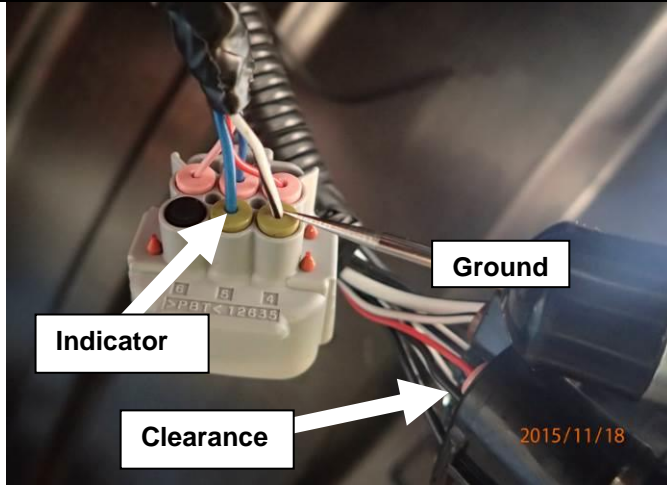
48. Using supplied scotch locks for the electrical connections connect the LED Indicator/clearance light looms as per table below:

LED INDICATOR/CLEARANCE LOOM	
Cable Colour	Function
RED	CLEARANCE (+)
GREEN	INDICATOR (+)
BLACK	GROUND (-)

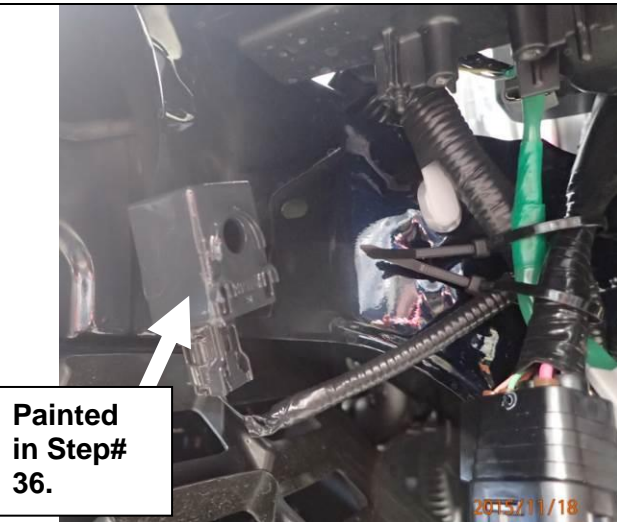
49. On the Grey Socket, the red wire is the indicator signal; white wire with black stripe is the ground. On the Black Socket the black wire shown is the clearance signal.



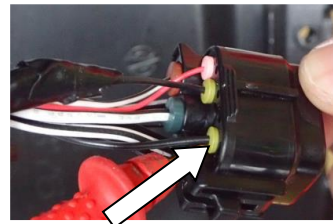
## CONNECTING LED INDICATOR/CLEARANCE (PASSENGER SIDE)



50. As done on Drivers Side, remove and discard OE loom bracket. Split grey plug and socket as shown adjacent.
51. Using supplied scotch locks, connect LED light loom as per table in step 48. Blue wire shown is the indicator signal; white wire with black stripe is the ground. On the black socket, the black wire shown is the clearance signal.



52. Once satisfied that sturdy electrical connections have been made on both sides, cable tie both harnesses back onto the sheet metal underneath the headlights as shown.



If installing driving lights, the high beam signal can be tapped into on the passenger side of the vehicle using the black wire on the black plug shown.

## FITTING BULL BAR TO VEHICLE



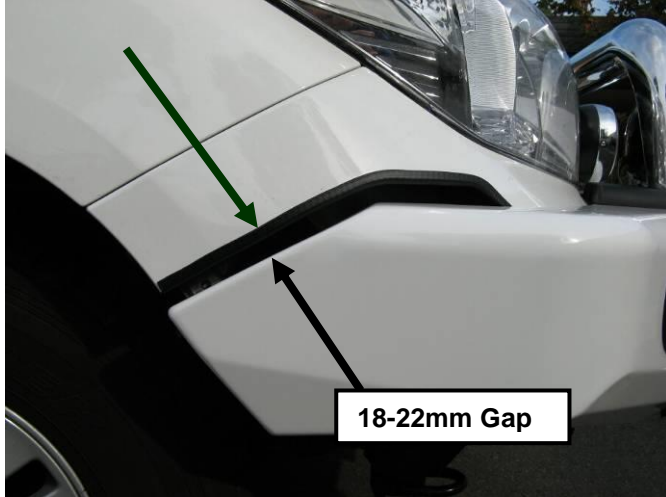
53. With the aid of a lift table or one or more assistants carefully and safely lift, position and loosely bolt the bull bar to the mounts using 6 x M12 bolts, large flat washers, spring washers and M12 flange nuts. Centralise the bar to the front of the vehicle.

**NOTE: DO NOT DO UP TIGHT**




54. Fit the cross brace to underside of lower pan and on top of gussets on mount brackets. Use M10 x 30mm SEMS bolt and washer sets, flange nuts **but do not do up tight**.

**NOTE: DO NOT DO UP TIGHT**

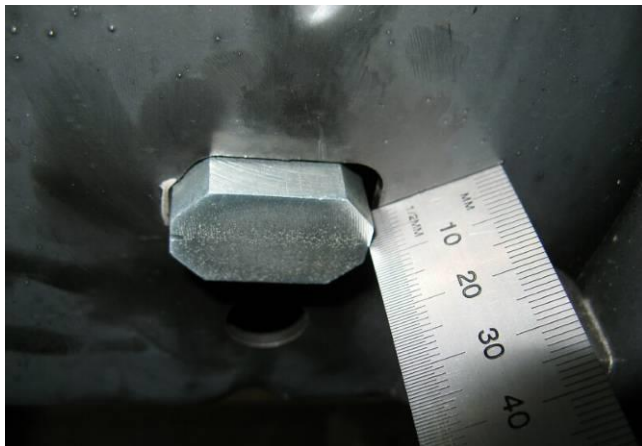


55. Adjust the bar height leaving approximately an 18-22mm gap between top of wing and the pinch weld on bumper.
56. Tighten bar mount M12 bolts to specified torque.


 M12 - 77 Nm.

57. Tighten the factory M10 flange nuts to chassis studs to **67Nm**.


 M10 (FINE) - 67 Nm.



58. Then tighten up the long M12 chassis studs, ensuring that the clevis nut is positioned correctly over the hole in the chassis.

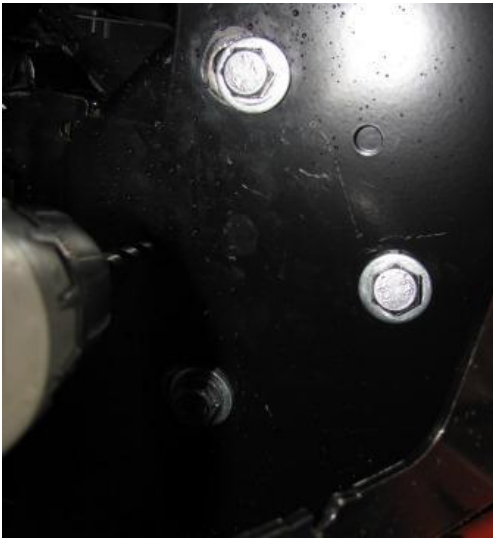
 M12 - 77 Nm.

59. Tighten brace bolts to specified torque.

 M10 - 44 Nm.

60. Tighten each tow hook bolt in turn, apply Loctite 262 © to threads and tighten to specified torque.

 M12 (FINE) - 102 Nm.



61. Using the M10 pilot holes in the bull bar uprights, drill the two pinning holes through mounting brackets on each side. Fit M10 bolt and washer sets and flange nuts and tighten to specified torque.



M10 - 44 Nm.

HINT: Orientate drill through Foglight aperture. A right angled drill may also assist.



**Warning: Drilling operations can result in flying metal debris, safety glasses should be**



62. Assemble and install combination light surrounds 3163015 as per instruction 3786421 supplied with surround kit. Note: Optional fog lamps can be installed at this point as per fitting instruction 3783315 supplied with fog lamp kit no. 6821201.

63. If installing fog lights Install ARB wiring loom 3500530 and switch into vehicle. Refer to instructions supplied with loom. Place switch inside cabin in a suitable position.

64. Assemble LED Combination lamp into Foglight housing with screws supplied in lamp kit.

**CAUTION: Cable-tie all cables together and keep all cables clear of sharp edges and all moving parts.**

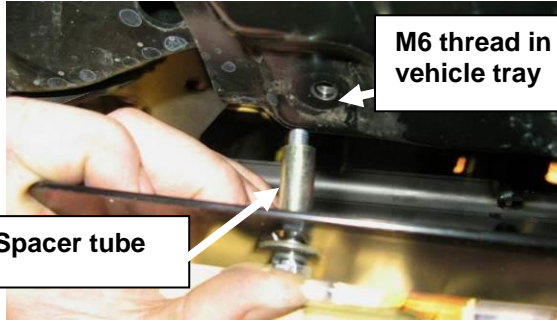
65. Check the operation of all lights wired during bar fitment




66. Fit the 4 longer leg M6 cage nuts to the lower pan of the bull bar as shown.

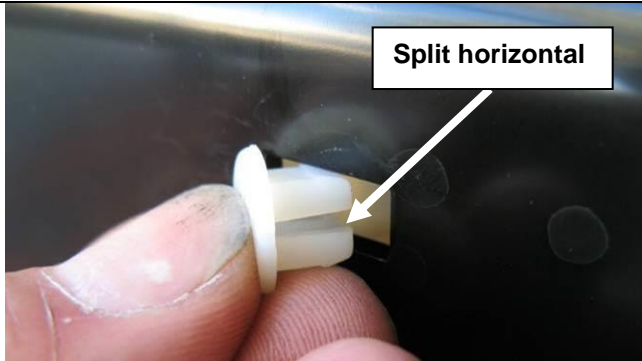






 M6 - 9 Nm.


67. 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.



68. Fit grommets to square cut-outs in front face of bull bar. Fit number plate using supplied pan head screws into grommets.




69. Fit both wing panel brackets to the higher holes in the outside of the mounting brackets using M8 bolt, washer, spring washer and flange nut.


 M8 - 22 Nm.



70. Fit 5 x M6 cage nuts to each wing splash panel as shown on *inside* faces.

71. Fit panels up inside wings; secure using M6 x 20 black button head bolts and washer sets. Fix panel to side of mount bracket using M8 bolt, washer sets and flange nut.

 M6 - 9 Nm.

 M8 - 22 Nm.

## FINAL PRODUCT ON VEHICLE

