



# FITTING INSTRUCTIONS

Part Number: 3436070 | 6178487 | 6178498

Product 3436070 ZENITH WINCH BAR MT BLACK | FORD F150 23 ON

Description: 6178487 F/KIT BOX 3436070 | SUITS F150  
6178498 KIT BASE PLT SUIT 3436070

Suited to  
vehicle/s: FORD F150 23 ON

Options: 3570070 HARNESS CAN BUS ADAPTOR (FOR DRIVING LIGHTS)

## 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

Corporate Head Office

42-44 Garden St  
Kilsyth, Victoria  
AUSTRALIA, 3137

Tel: +61 (3) 9761 6622

Fax: +61 (3) 9761 6807

Australian enquiries  
North & South American enquiries  
Other international enquiries

sales@arb.com.au  
sales@arbusa.com  
exports@arb.com.au

[www.arb.com.au](http://www.arb.com.au)

# 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 Carnuba 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 COMBINATION SPANNER SET
ALLEN KEY SET	TORX KEY SET
OSCILLATING MULTI-TOOL	DRILL WITH A Ø5.0MM AND Ø10MM DRILL BIT
BASIC MEASURING AND MARKING TOOLS	TORQUE WRENCH 9-100Nm CAPACITY
TERMINAL CRIMPS	DIGITAL ANGLE GAUGE

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

Protective eyewear 	Hearing protection 
--	--

**NOTE:** When installing ground terminals, please ensure the ground point is clean and secure with good contact. Do not stack more than one additional ground terminal onto any ground point. If adding a ground terminal to an existing ground point, please ensure the fastener is correctly tightened after installation.

**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	PROPERTY CLASS	Torque Nm	Torque lbft
M4	8.8	3.8Nm	2.8lbft
M6	8.8	9Nm	7lbft
M8	8.8	22Nm	16lbft
M10	8.8	44Nm	32lbft
M12	8.8	77Nm	57lbft
M12	11.9	102Nm	75lbft

**PARTS LISTING - 3436070**

APPLICATION.	PART NO.	QTY	DESCRIPTION
BULLBAR	4655699	1	WELDED ASM ZENITH

**PARTS LISTING - 6178498**

APPLICATION.	PART NO.	QTY	DESCRIPTION
CENTRE BASH PLATE	6523706	1	ZENITH FRONT PANEL WELDMNT   SUITS F150
UNDER WING PANELS	6523715R/L	1R/1L	UND PNL SORB RH ZENITH
SORB COVER	6523716R/L	1R/1L	SORB COVER RH

**PARTS LISTING - 6178487**

APPLICATION.	PART NO.	QTY	DESCRIPTION
MOUNTS & RECOVERY POINTS TO CHASSIS	4655700R/L	1R/1L	CHASSIS MNT RH/LH   SUITS F150
	3197074	2	RECOVERY POINT POWDERED RED
	4601347R/L	1R/1L	INTERNAL CHASSIS SUPPORT RH/LH   SUITS F150
	4601348R/L	1R/1L	RECOV SUPPORT RH/LH   SUITS F150
	4655701R/L	1R/1L	CHASSIS WINCH MNT RH/LH
	3197073	4	CHASSIS SPACER   SUITS F150
	4617102	4	SPIGOT DIAM 35 M12 THRD
	6151817	16	BOLT HXHD FL M12x1.25x40
BAR TO MOUNTS	6151480	6	NUT FLANGE M12x1.25
	6151897	10	BOLT HXHD FL M10x1.5x30
LIGHTS AND MOULDINGS	6151321	10	NUT FLANGE M10x1.5
	3163344R/L	1R/1L	FOG LIGHT HOUSING RH/LH
	3163395R/L	1R/1L	DUCT MOULDING INNER RH/LH
	37500461R/L	1R/1L	FOG MNT 6° RAKE RH/LH
	3501101	1	LED FOG LAMP SUIT FORD
	6151649	4	SCREW BHD M4x16
	4584294	8	WASHER FLAT M4x9x0.8
	6151646	4	NUT HEX NYLOC M4x0.7
	6151223	28	NUT HEX NYLOC M6X1.0
	4584329	28	WASHER FLAT M6x12.2x1.2
GRILLE MOUNTING	6151729	8	BOLT HXFL M6X1.0X20 FT
	6821601	1	DEUTSCH DT PLUG KIT
	3163400	3	ZENITH BAR CENTER GRILLE
	4601349R/L	1R/1L	ZENITH GRILLE CHNL RH/LH
	4681908R/L	1R/1L	ZENITH TOP GRILLE MNT RH/LH
	4681909R/L	1R/1L	ZENITH LOWER GRILLE MNT RH/LH
	6821189	8	GROMMET RND FL 1500 080 090
	6152091	8	SCREW PHD 4.8X1.59X26
	6151729	8	BOLT HXHD FL M6x1.0x20
	6151173	8	NUT FLANGE M6
	6151652	2	SCREW PHD 8Gx15
	6151921	2	BOLT COHD M8x20
4581085	2	WASHER FLAT M8x19x1.2	
6151212	2	NUT HEX NYLOC M8x1.25	

RADAR AND CAMERA BRACKETRY	37500463	1	CAMERA RADAR MNT   SUITS F150
	3195389	1	PLATE CAMERA RETENTION
	37500464	1	RADAR ADJUST MNT   SUITS FORD
	37500465	1	RADAR CLAMP   SUITS F150
	3163091	1	PLUG BLANKING BLK 17.4mm (0-6.4mm PLATE)
	3163221	1	COVER RADAR GRILLE CENTRE MNT
	6152021	1	SCREW HXHD FL M6x65
	6151975	2	SCREW BHD M6x12   SS
	4584329	5	WASHER FLAT M6x12.2x1.2
	6151223	5	NUT HEX NYLOC M6x1.0
	6151729	2	BOLT HXHD FL M6x1.0x20
	6151921	2	BOLT COHD M8x20
	4581085	2	WASHER FLAT M8x19x1.2
	6151212	2	NUT HEX NYLOC M8x1.25
WINCH MOUNTING	4655719	1	REAR WINCH MNT
	6151897	4	BOLT HXHD FL M10x1.5x30
WING BRACES	4681904R/L	1R/1L	WING BRACE ZENITH RH/LH   SUITS F150
	6151897	8	BOLT HXHD FL M10x1.5x30
	6151321	8	NUT FLANGE M10x1.5
NUMBER PLATE	37500431	1	NUM PLATE BRKT F150 ZENITH
	37500462R/L	1R/1L	NP BRKT RH/LH   SUITS F150
	6151729	8	BOLT HXHD FL M6x1.0x20
	4584329	8	WASHER FLAT M6x12.2x1.2
	6151223	8	NUT HEX NYLOC M6X1.0
FRONT PANEL AND UNDER PANEL MOUNTING	5848302	2	PACKER RBAR NYLON
	4681907R/L	1R/1L	UNDR PNL SORB MNT RH/LH
	6151428	4	NUT FLANGE M12x1.75
	6152153	2	BOLT HXHD FL M8x1.25x30
	6151548	2	NUT FLANGE M8x1.25
	6151729	18	BOLT HXHD FL M6x1.0x20
	6151223	2	NUT HEX NYLOC M6x1.0
	6151173	4	NUT FLANGE M6
	6151278	2	NUT SERT M6
	6151475	10	NUT U M6X1.0
	4581082	2	WASHER FLAT M6x20
	6152277	2	BOLT HXHD FL M12x1.75x40
	6152153	6	BOLT HXHD FL M8x1.25x30
	6152034	4	NUT U M8X1.25
4655055	2	NUT PLT M8x1.25	
MISC.	3540290	1	SENSOR SURROUND KIT (4)
	6821557	1	COAX EXTENSION M/F 500MM
	6821477	1	SENSOR EXTEND INNER SUITS FORD
	6821559	1	SENSOR EXTEND MF 650MM FORD

**Note: Read the instructions thoroughly before starting.**

1. Open the bonnet and remove all scrivets (13) retaining plastic cover. Set aside the scrivets and cover for re-use later.



2. Gently unclip and remove the radar cover on the RHS of the bumper.
3. Push the radar upwards to release and remove. Place somewhere safe and do not drop!





4. Disconnect the loom plug located on the top of the RHS chassis.
5. Unclip the plug from the chassis.

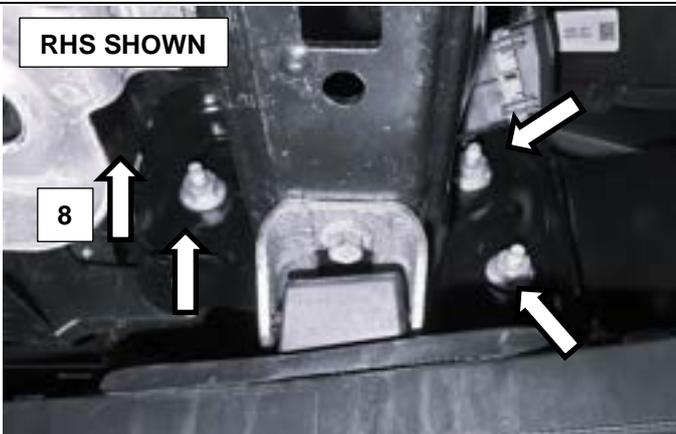


LHS SHOWN



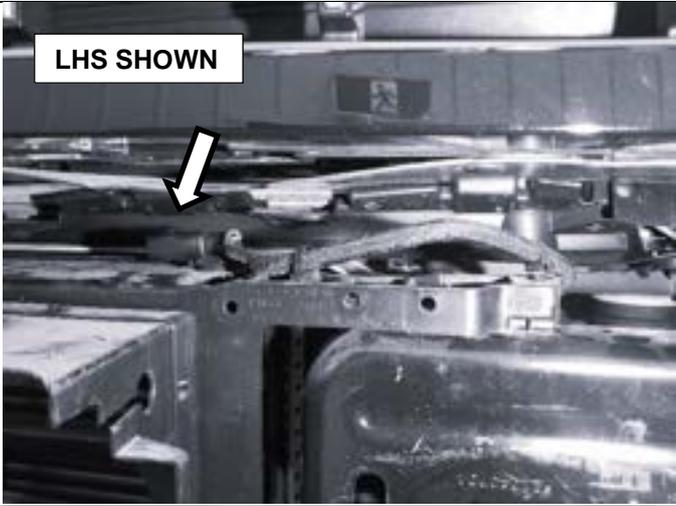
6. Remove the air dam mount screws (three per side) and air dam, discard.

RHS SHOWN



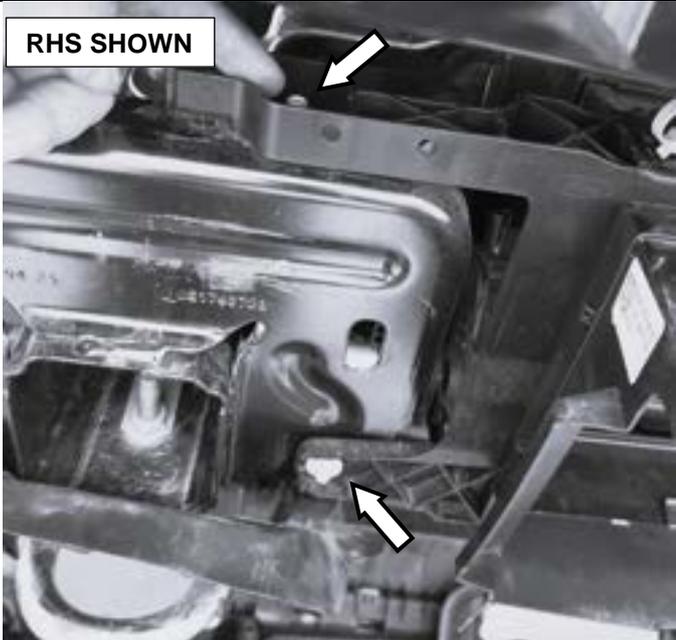
7. With the vehicle on a hoist, support the bumper on a trolley.
8. Unplug the intercooler louver control motor located beside the RHS chassis.
9. Remove the six nuts on the front chassis plates.

LHS SHOWN



10. While carefully bringing the bumper away from the vehicle, the wastegate plug will become exposed on the LHS above the chassis.
11. Unplug the wastegate loom and remove the bumper.
12. Place the bumper front down on a bench for disassembly.

RHS SHOWN



13. Remove the four bolts retaining the louvre box and remove.
14. Fitted to the RHS of the louvre box is the control motor, remove and place in a safe place for refitment.

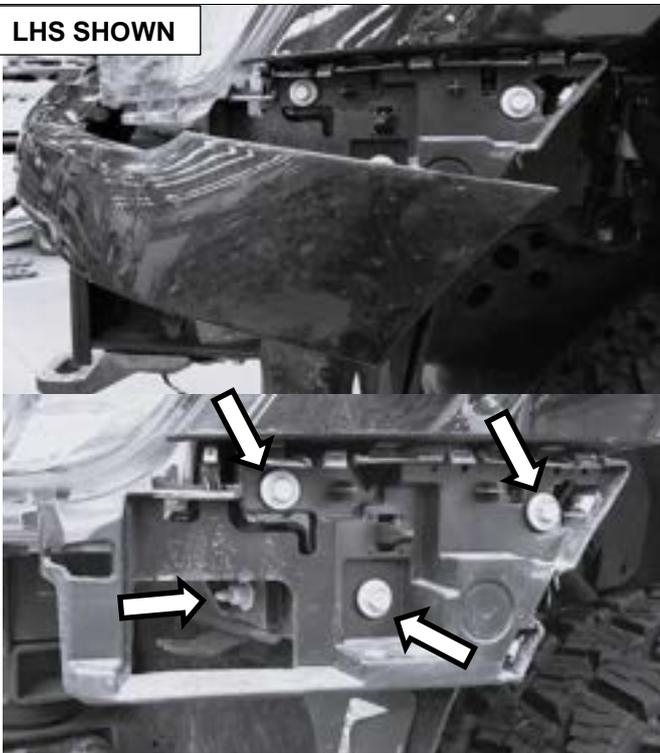


LHS SHOWN



15. Remove all fasteners from inner lining to the grille trim on both sides.

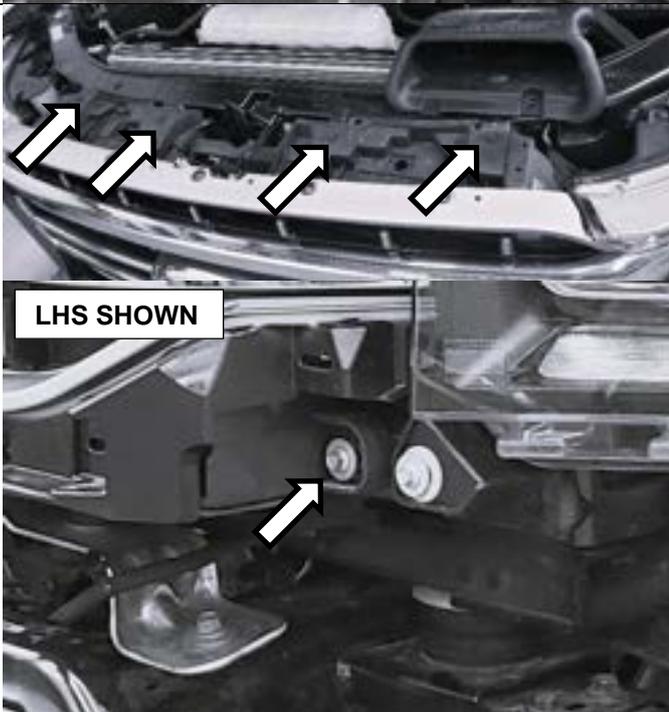
LHS SHOWN



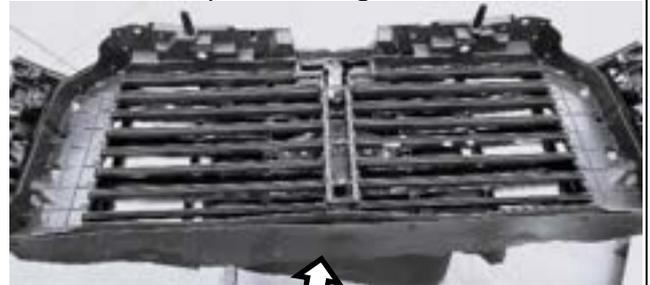
16. Begin unclipping the grille lower from one side working to the other, once removed this can be discarded.
17. Remove the side grille retainer and inner lining mount from both sides.
18. Use one M6x20 FL bolt, M6x20 washer and M6 nyloc nut to secure the lining to the body on both sides.



This area can be cleaned and painted black.



19. Remove the four upper and two lower grille bolts, remove grille and place face down on a soft surface.
20. Remove lower panel from grille and discard.

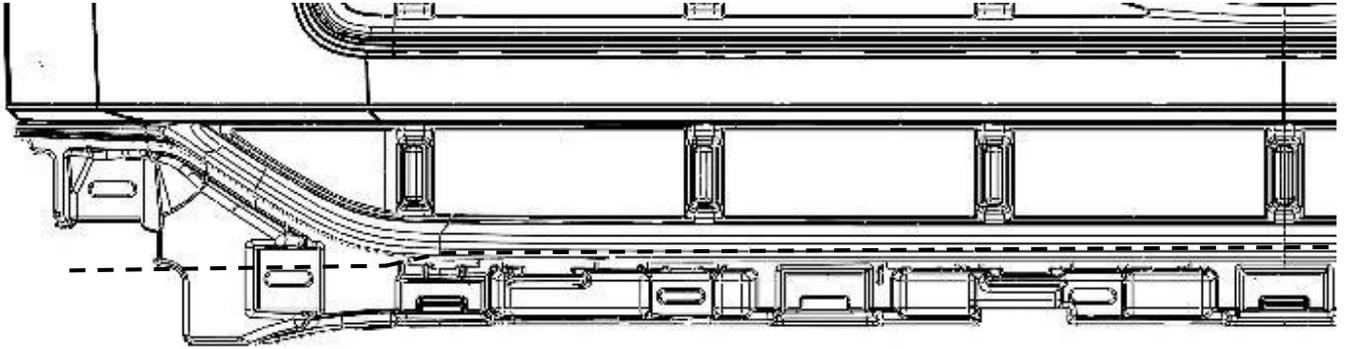


20

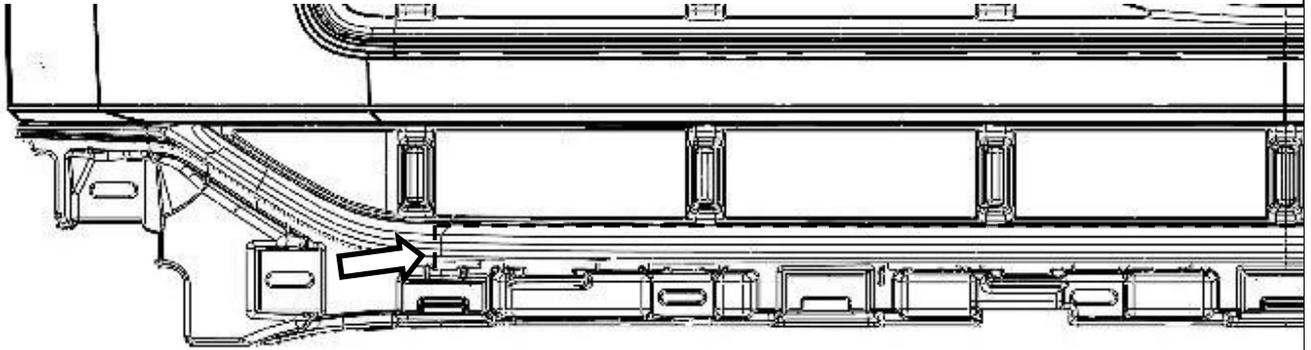


21. Open the louvres and remove the LH and RH blades from the fifth row counting down.
22. Unplug the camera and remove the three screws holding the camera mount, place the camera in a safe location.
23. Refit the removed blades.

GRILLE CUT



24. Remove the lower section of the outer skin as shown above.



25. Cut the lower rib vertically as shown above, and all the way horizontally following the rib to keep the lower section linked.



26. Cut the protruding areas of the remaining grille as shown above.

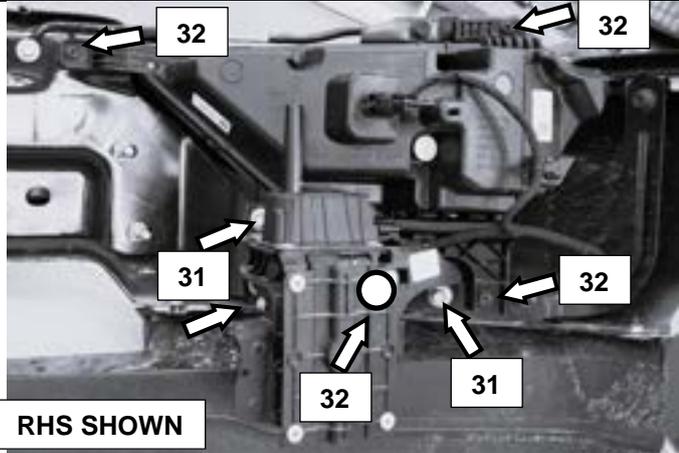
27. Debur all of the cuts.



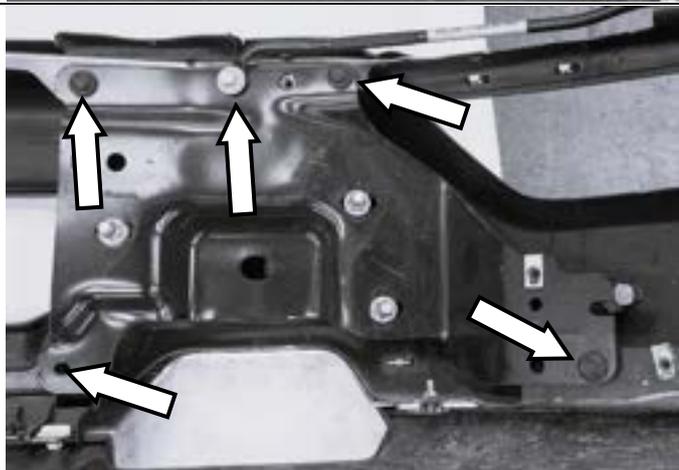
Warning: Drilling operations can result in flying metal debris, safety glasses should be worn.



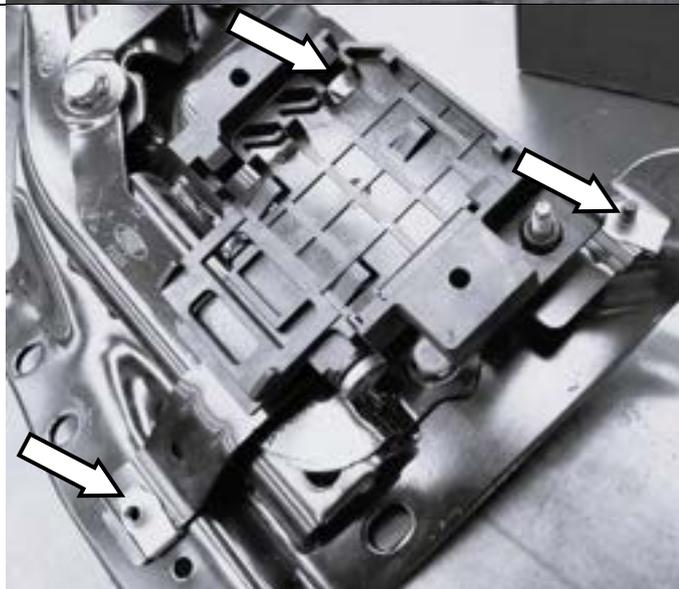
28. Connect the COAX extension to the camera plug and route the tail as shown.
29. Refit the grille to the car using the six fasteners and connect the two plugs.



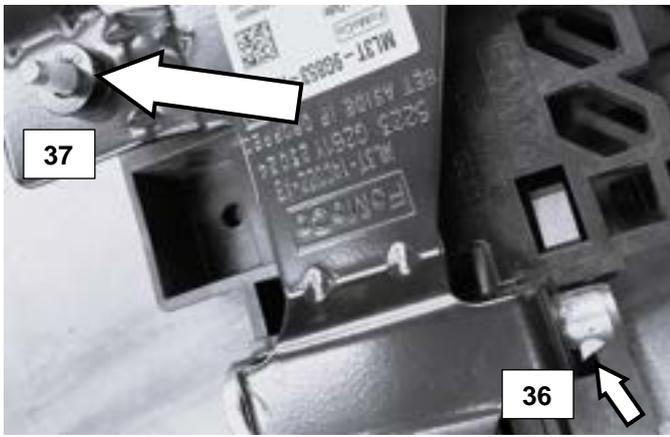
30. Unclip the plugs on the bumper loom to the lights and air dam motors. Unclip all accessible loom retainers.
31. Remove the air dam motors from the bumper retained by three bolts each. Place on a bench for further disassembly.
32. Remove both lamps from the bumper.



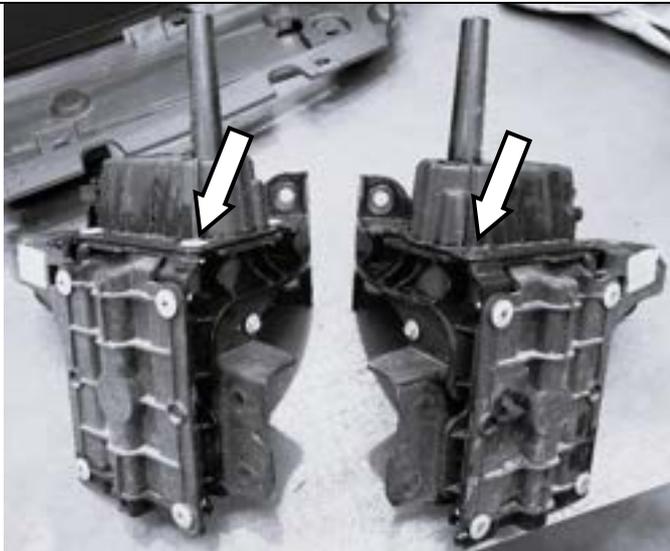
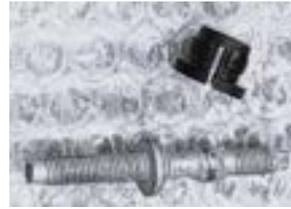
33. Remove both chassis mount plates.
34. Unclip the parking sensors (pictured below) from their housings and remove the loom and store safely.



35. Remove the three screws retaining the radar mount assembly on the LHS chassis mount.



- 36. Push in latch and remove the pivot pin.
- 37. Wind out the adjustment screw and remove the retainer cup.  
Save the adjustment screw and cup for refitment.



- 38. Remove the pop rivets from the air dam motors using a drill and Ø5.0mm drill bit. Four on each.
- 39. Remove the cover, then the shaft cover tube.
- 40. Wind the motor off the actuator shaft and place the motors with the loom.

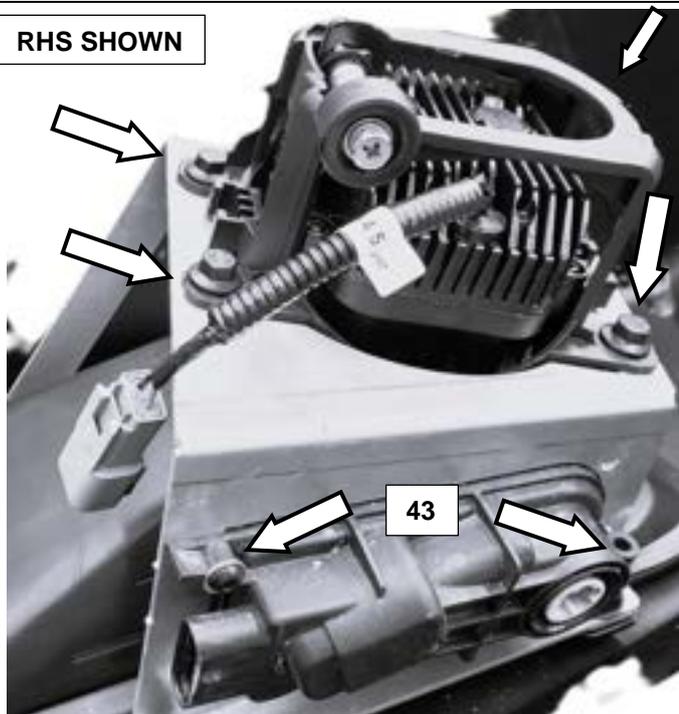


### BAR ASSEMBLY

- 41. Place the bar face down on a soft material.



RHS SHOWN



42. Assemble a fog lamp onto the mounting bracket using four M6 x 20 flange bolts, four M6 washers and four M6 nyloc nuts. Torque to specification.

 M6 - 9 Nm.

43. Fit the RHS air dam motor using two M4x16 BHD screws and two M4 nyloc nuts. Torque to specification.

 M4 - 3.8 Nm.

**REPEAT ASSEMBLY FOR LHS.**

44. Place the fog light housing and then the duct moulding onto the bar.

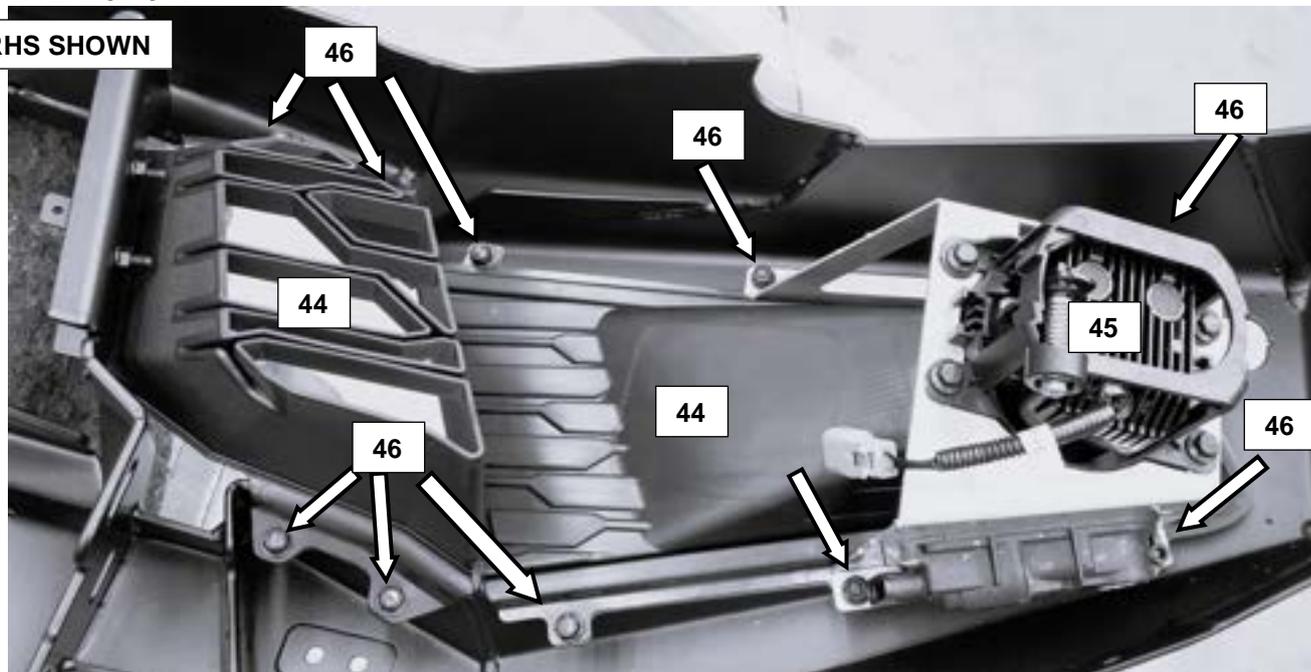
45. Place the RHS assembled fog light and mount over the fog light housing.

46. Using ten M6 washers and ten M6 nyloc nuts to secure in place.

47. Torque to spec then repeat for LHS.

 M6 - 9 Nm.

RHS SHOWN

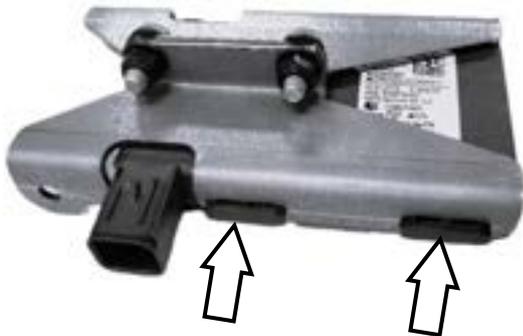




48. To assemble the Radar and Camera mount, the follow parts are needed.

- M6x65 Screw x one
- M6x20 FL bolts x two
- M6x12 SS BHD x two
- M6 Washers x five
- M6 Nyloc nuts x five
- Bracket camera x one
- Camera Radar mnt x one
- Radar clamp x one
- Radar adjust mnt x one

RADAR  
CAMERA  
ADJUSTMENT SCREW AND CUP



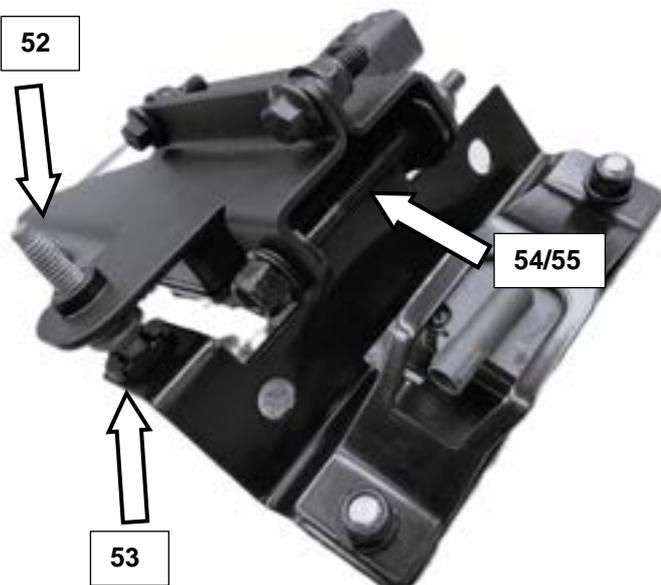
49. Click the radar into the radar clamps and use two M6 FL bolts, two M6 washers and two M6 nyloc nuts to secure.  
Torque to spec.

 M6 - 9 Nm.



50. Fit the camera onto the mount and place the clamp on top.  
51. Fit two M6x12 BHD, two M6 washers and two M6 nyloc nuts and torque to spec.

 M6 - 9 Nm.



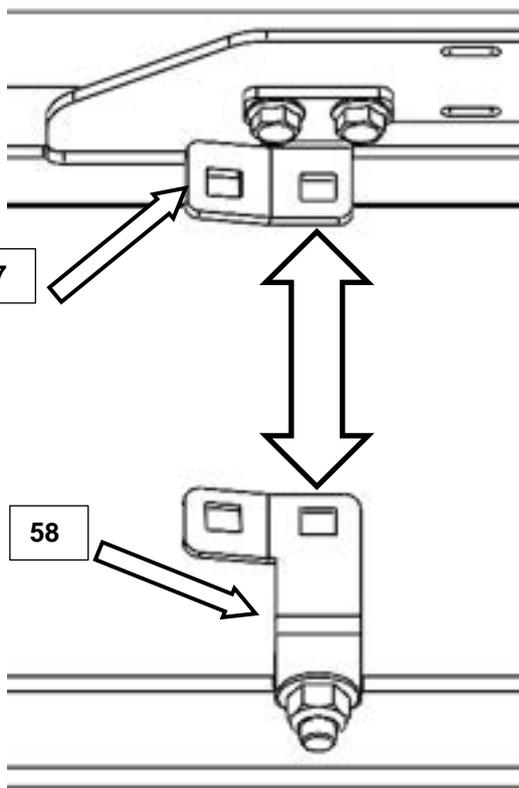
52. Wind the adjustment screw into the radar mount.  
53. Push the adjustment screw cup into the camera mount, then fit the radar onto the mount by click the ball of the screw into the cup.  
54. Use one M6x65 screw, one M6 washer and one M6 nyloc nut to complete the assembly.  
55. Tighten to a snug fit.



56. Attach the assembly to the bar using two M8x20 coach bolts, two M8 washers and two M8 nyloc nuts.  
Torque to spec.

 M8 - 22 Nm.

**RHS SHOWN**



**GRILLE MOUNT ALIGNMENT FOR LIGHTS**

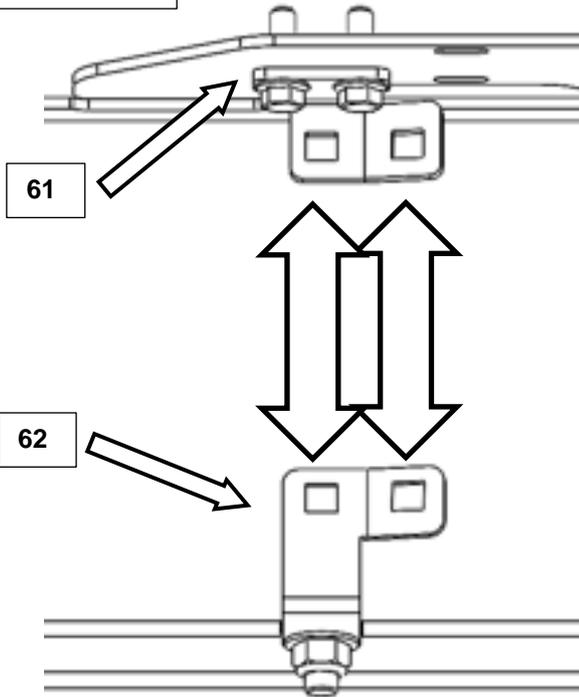
57. Fit the TOP grille mount using two M6x20 FL bolts (fitted from the underside), two M6 washers and two M6 nyloc nuts.  
58. Fit the LOWER grille mount using one M8x20 coach bolt (from the top), one M8 washer and one M8 nyloc nut.  
59. Align the sides of the lower mount and then tighten all to spec.

 M6 - 9 Nm.  M8 - 22 Nm.

60. Repeat steps for LHS then insert grommets in the two locations shown.



RHS SHOWN



### GRILLE MOUNT ALIGNMENT FOR THREE GRILLES

61. Fit the TOP grille mount using two M6x20 FL bolts (fitted from the underside), two M6 washers and two M6 nyloc nuts.
62. Fit the LOWER grille mount using one M8x20 coach bolt (from the top), one M8 washer and one M8 nyloc nut.
63. Align the sides of the lower mount and then tighten all to spec.

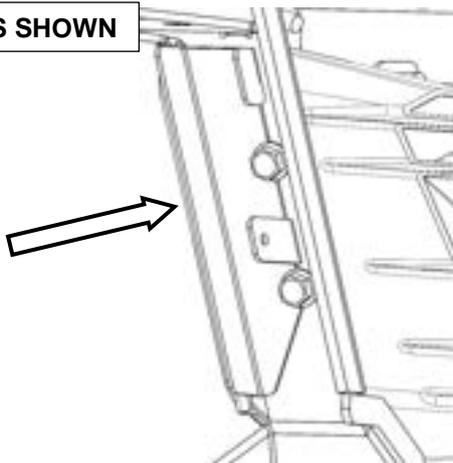
 M6 - 9 Nm.  M8 - 22 Nm.

64. Repeat steps for LHS then insert grommets in the four locations shown.



**IF LIGHTS ARE BEING FITTED, SKIP TO STEP 69.**

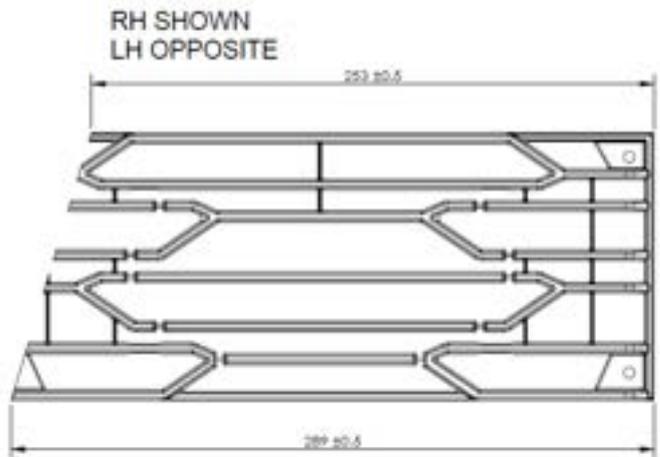
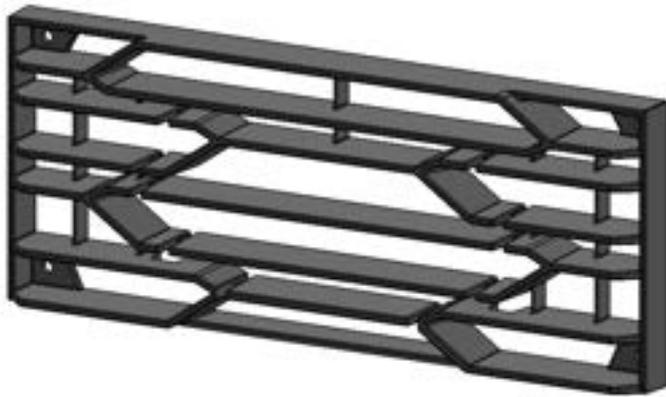
RHS SHOWN



65. Fit the grille channels to the bar upright using two M6x20 FL bolts and two M6 flange nuts per side.

Torque to spec.

 M6 - 9 Nm.



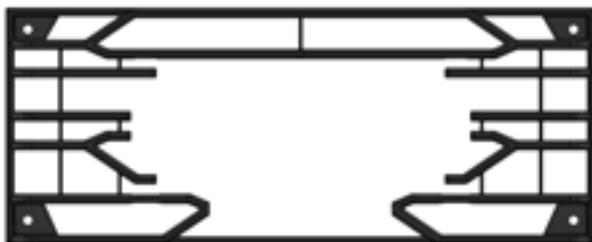
66. Mark out two grille pieces as shown and cut, one LHS and one RHS.  
67. Debur all sharp edges.



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



68. Fit each cut grille with two PHD screws from the front and one PHD x 15mm screw from the rear.



69. Remove the break outs on the grille to be fit in the centre. Debur sharp edges.

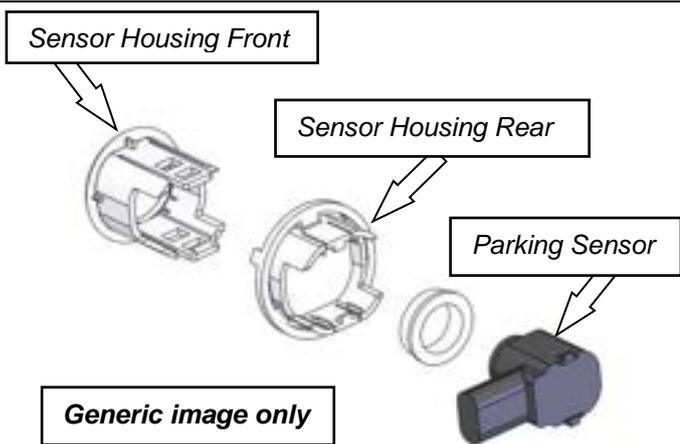
**IF LIGHTS ARE NOT FITTED, SKIP TO STEP 72.**



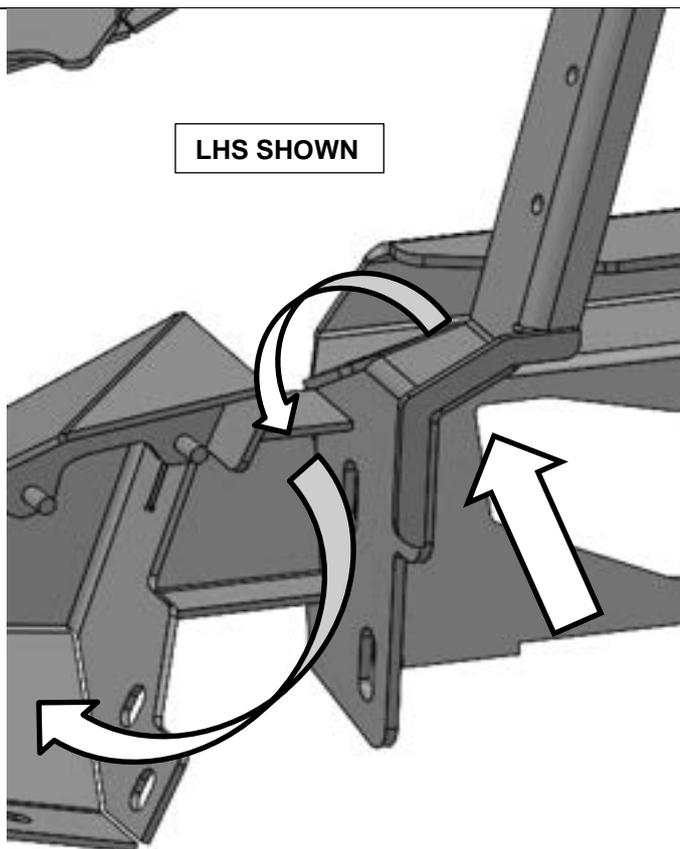
70. Fit two lights per side.

71. Align the back edge of the light mount and the bar plate and then tighten following manufactures specifications.

## FITTING THE LOOM.



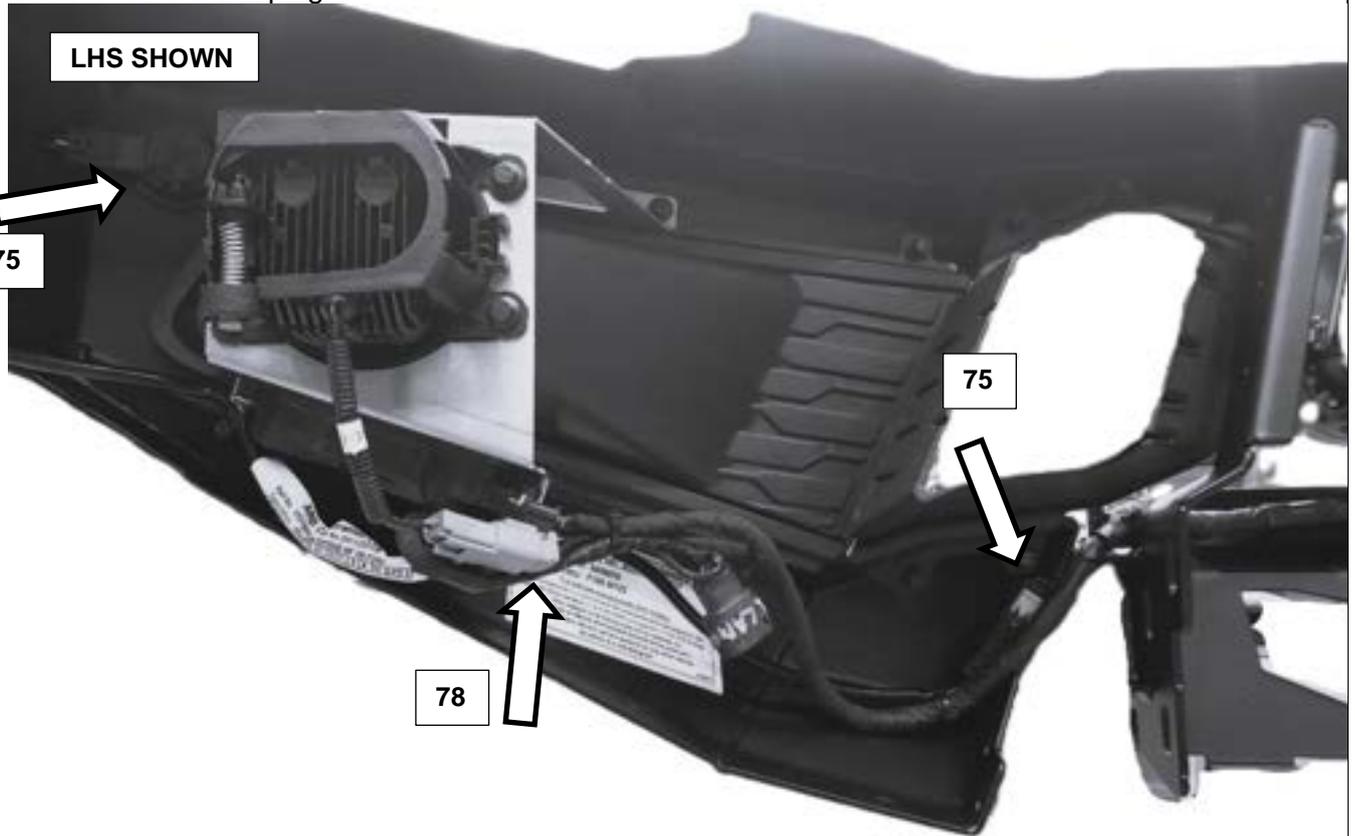
72. Fit two sensor surrounds to the bar on the wings.



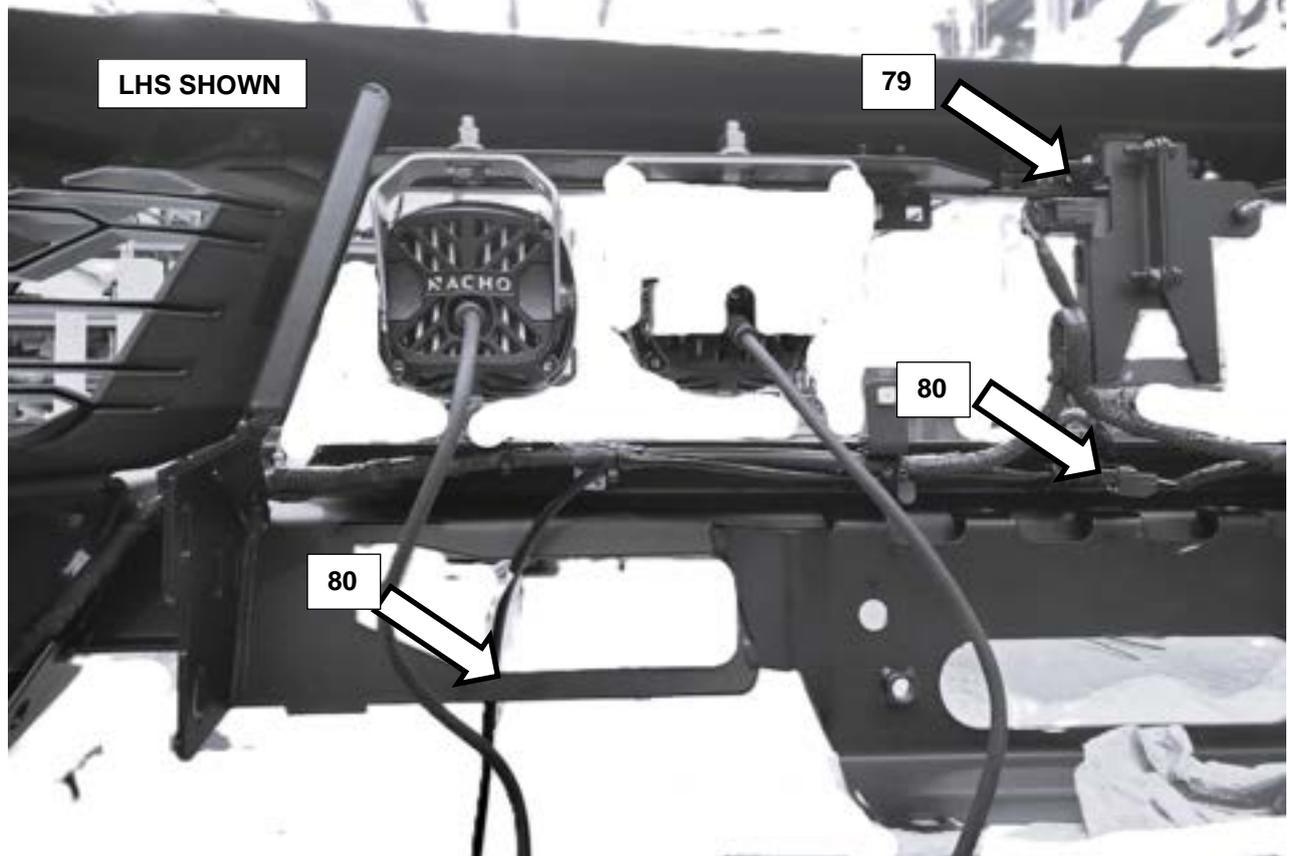
73. Feed the LHS of the loom up and around the bar upright.

74. Then feed the loom to the fog lamp.

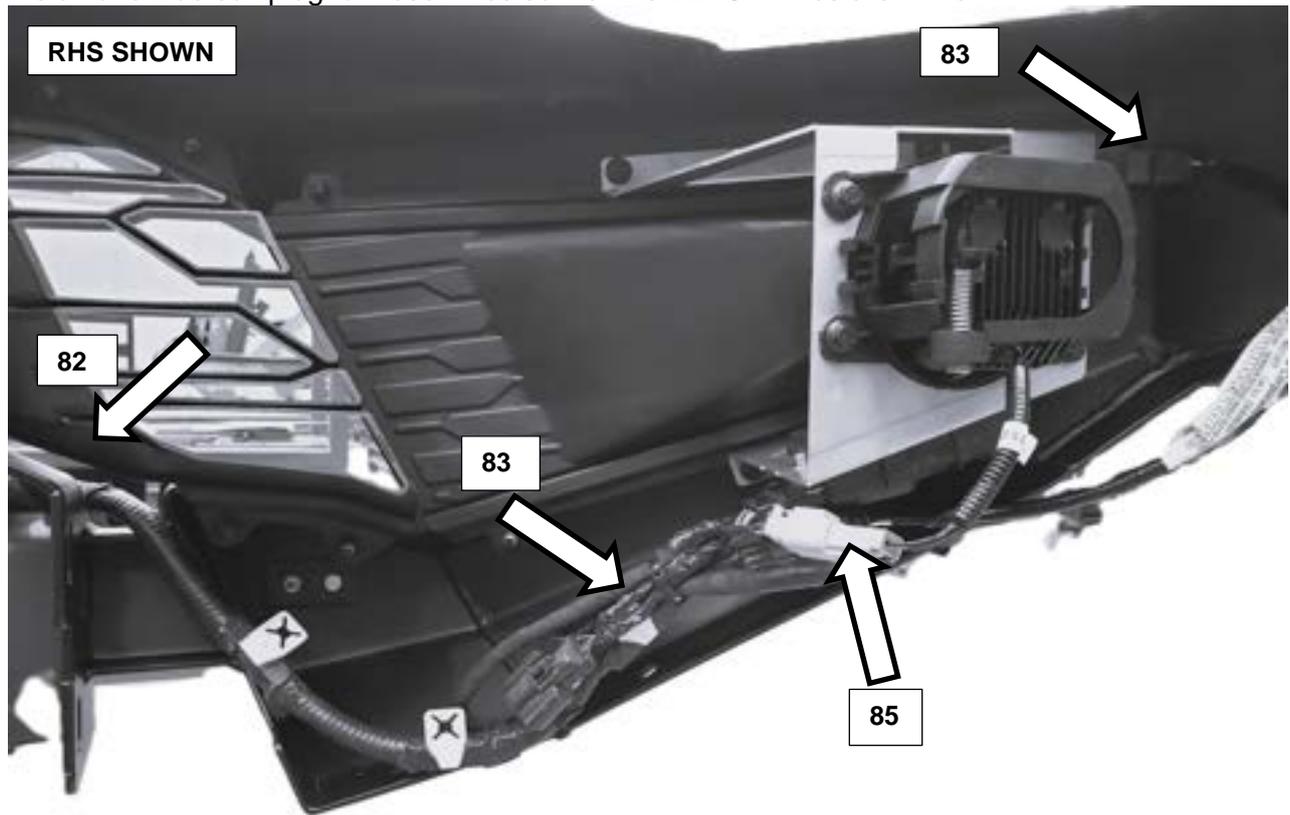
75. Remove the outer most sensor and use one 650mm long sensor extension to fit into the housing.
76. Connect the plug to the air dam motor.
77. To connect the fog light plug, cut two wires from the lamp plug. One is BLUE/RED, the other is BLACK/WHITE.
78. Install one Duetsch plug to these wires so that the BLACK wires are inline.



79. Connect the plug to the radar.
80. Remove the sensor and install the second 650mm sensor extension with the tail through the hole.
81. Remove the sensor from the RHS and use a short sensor extension to feed through the RHS hole.



82. Feed the RHS of the loom as per LHS.
83. Use a short sensor extension to fit the outer sensor into the housing.
84. Connect the plug to the air dam motor.
85. To connect the fog light plug, cut two wires from the lamp plug. One is BLUE/WHITE, the other is BLACK/WHITE.
86. Install one Duetsch plug to these wires so that the BLACK wires are inline.



87. If lights are fitted to the bar, follow the fitting instructions for the wiring loom.
88. Route the loom down behind the RHS headlight.
89. Fit the switch underneath the steering column.
90. Access through the firewall is the body grommet on the RHS.

LHS SHOWN

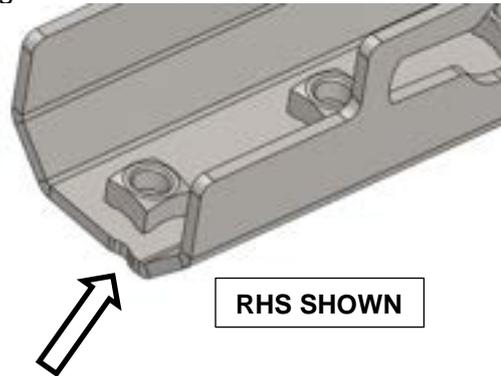


91. Remove both tow points and discard.

RHS SHOWN



92. Insert the internal chassis braces, the notch goes to the outside of the vehicle.



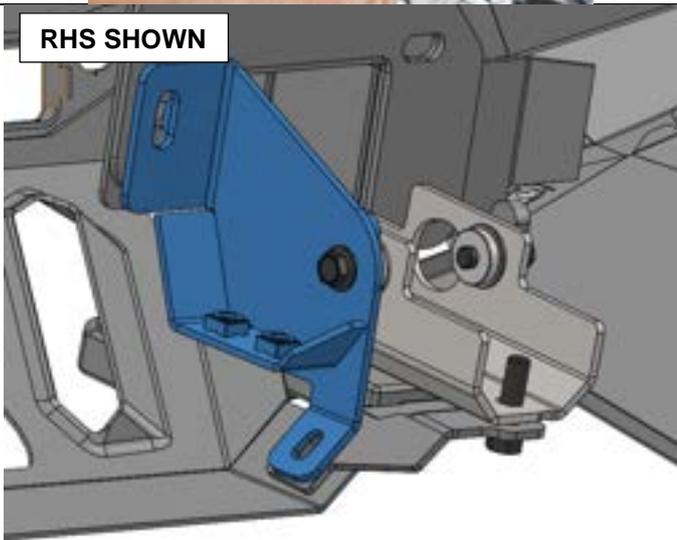
RHS SHOWN



93. Insert two spigots per side in the slots of the internal chassis brace.



94. Fit one chassis spacer and one M12x1.25x40 FL bolt into the spigot on the outside of each chassis rail.  
Leave loose.



95. Fit the chassis winch mount using a chassis spacer and one M12x1.25x40 FL bolt into the spigot on the inside of each chassis rail.  
Leave loose.



96. Install the recovery support bracket with one M12x1.25x40 FL bolt into the rear most position.

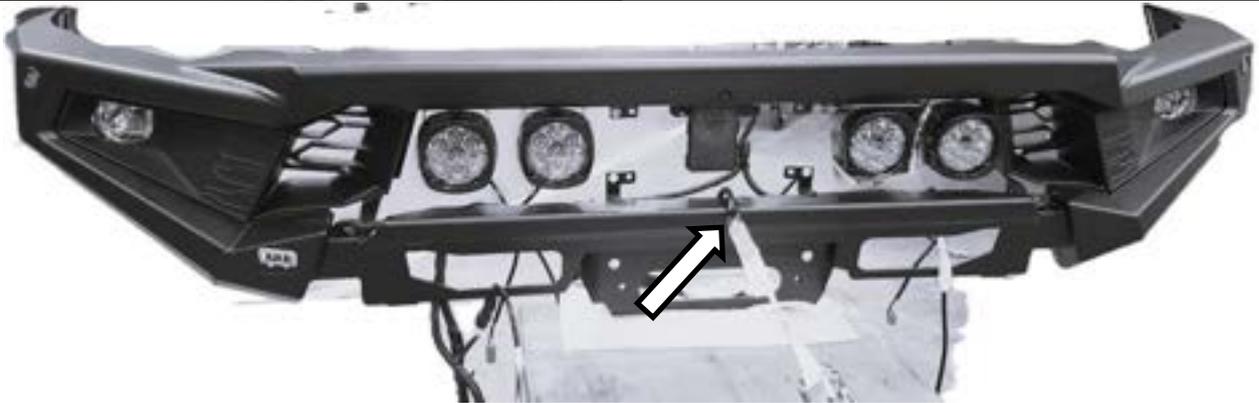


97. Place the recovery point between the chassis and bracket.  
98. Fit two M12x1.25x40FL bolts through the bracket and recovery point into the internal chassis mount.

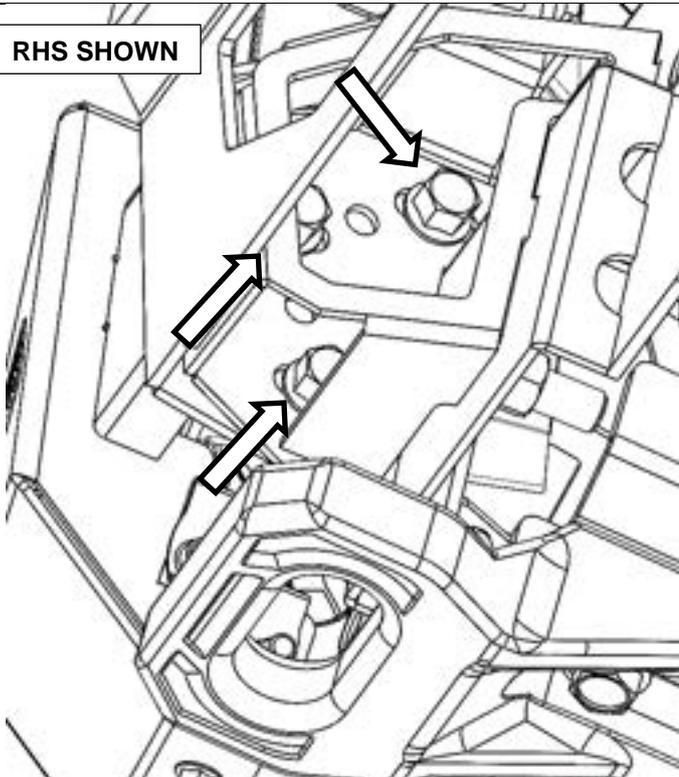
Leave all loose and repeat for LHS.



99. Use three M12x1.25x40 FL bolts and three M12x1.25 FL nuts per side, to attach the chassis mounts. Tighten to a snug fit.



100. Place the bar onto a lifting trolley for fitment to the car, a hook can be placed in the position shown.

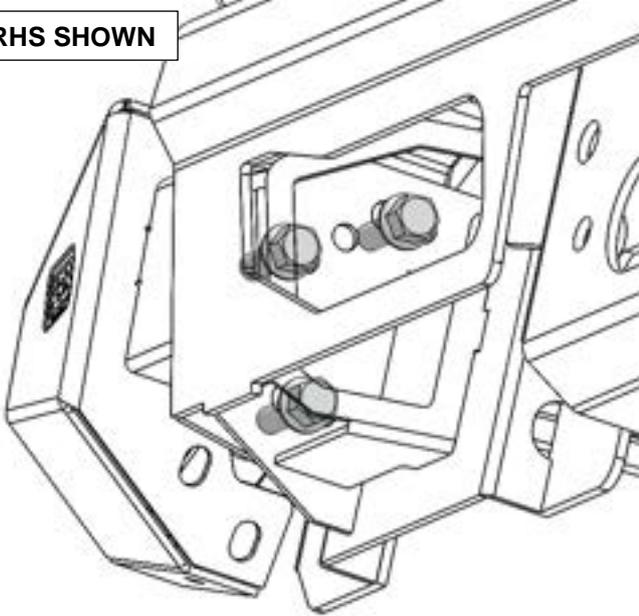


101. Bring the bar towards the car and connect the extension loom to the camera.  
102. Fit the bar to the mounts and on both sides, fit three M10x1.5x30 FL bolts through the bar into the chassis mounts. Fit three M10 FL nuts and leave loose.

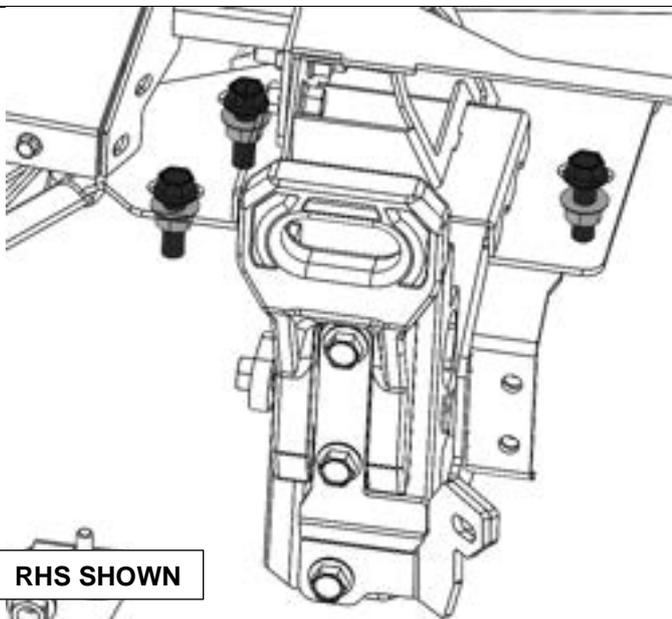


103. Place the bar so that the wing edge is tangent to the wheel arch and equally spaced each side of the car.
104. The top pan is 5 degrees down toward the vehicle.

**RHS SHOWN**



105. With the bar in the correct position, tighten the (three per side) M10 FL bolts to support the bar to the mounts.

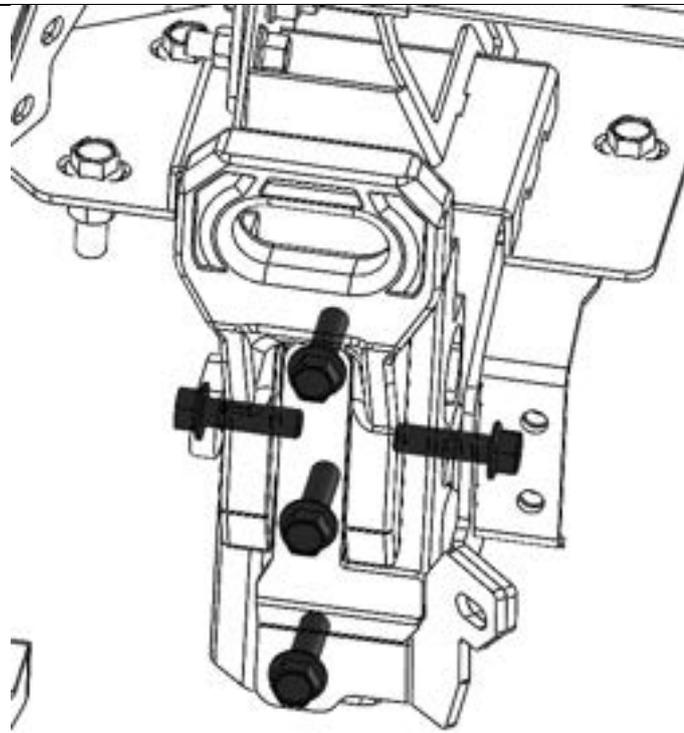


**RHS SHOWN**

106. Tighten the (three per side) M12 FL bolts on the chassis mounts.
107. Check alignment of the bar to the car and if suitable, torque the M12 FL bolts to specification.
108. Torque the M10 FL blts from step 100. To specification.

 M10 – 44 Nm.

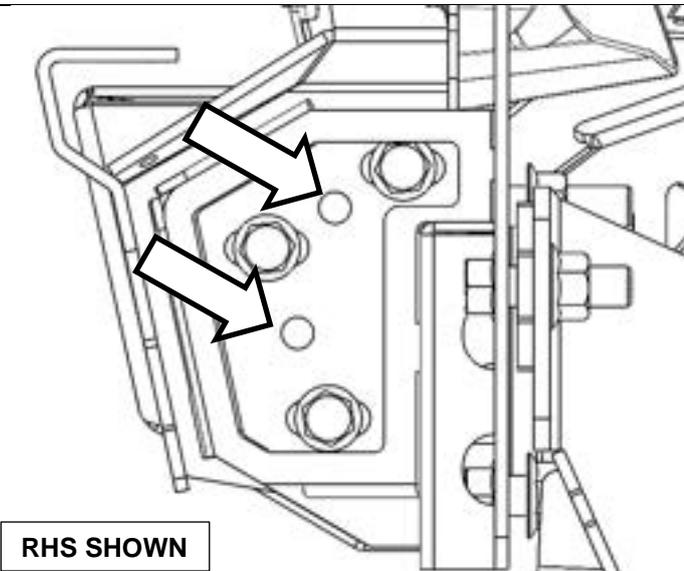
 M12 PC11.9 – 102 Nm.



RHS SHOWN

109. Pull the recovery points forward and torque all of the M12 FL bolts to specification.

 M12 PC11.9 – 102 Nm.



RHS SHOWN

110. Using a Ø10.0 drill bit, drill both pinning holes through the upright.

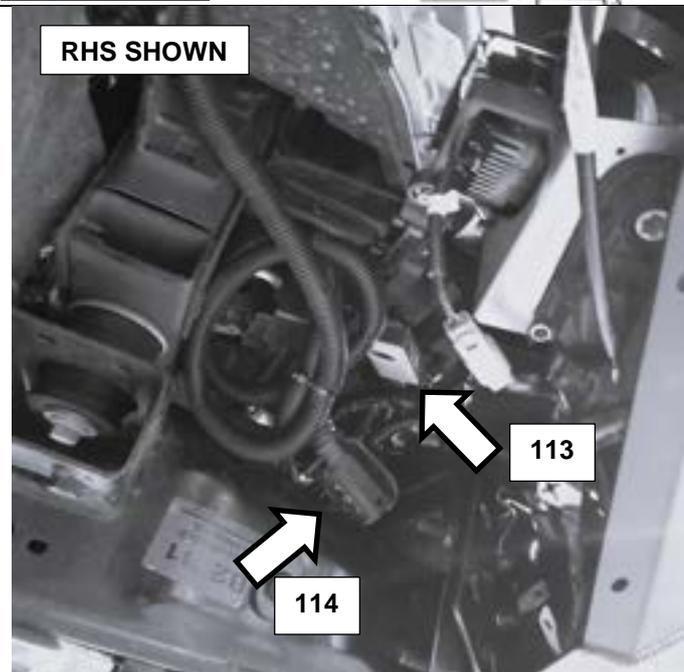
111. Fit two M10x1.5x30 FL bolts and two M10 FL nuts, then torque to specification.

112. Repeat for LHS

 M10 – 44 Nm.



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



RHS SHOWN

113. Connect the louvre motor to the loom and secure.

114. Reconnect the main loom plug and refit to the chassis.

115. Reconnect the wastegate plug.

116. Secure all loose wires.

117. If lights are fitted, connect to the driving light loom.

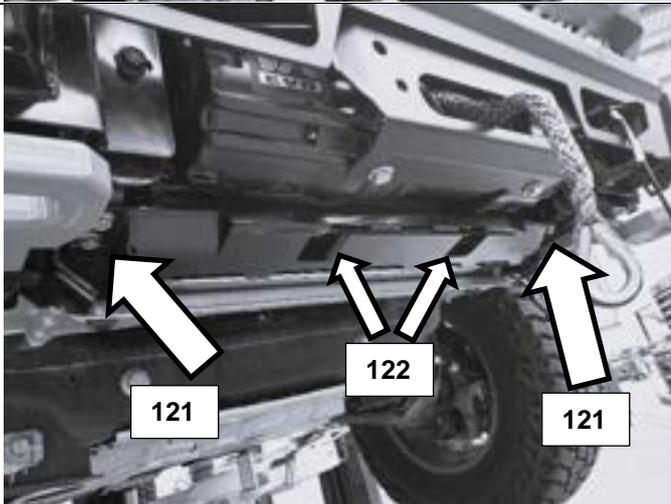


118. Fit each wing brace using four M10x1.5x30 FL bolts and four M10 FL nuts.  
Torque to specification.

 M10 – 44 Nm.



If a winch is being fitted, continue below, if not skip to step 125.  
119. While lifting the winch onto the front mounts on the bar, feed the rope through the access hole.  
120. Use two of the supplied fasteners through the bar into the winch to hold it in place.



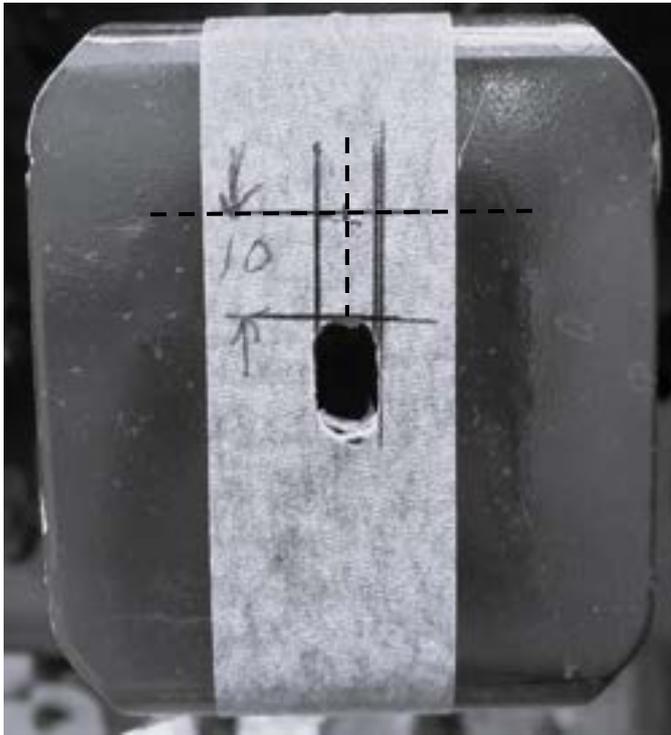
121. Loosly fit the rear winch mount with four (two per side) M10x1.5x30 FL bolts.



122. Fit the remaining two winch bolts into the rear of the winch, leaving loose.  
123. Centre the winch and torque all bolts to specification.

 M10 – 44 Nm.

124. Follow Winch instructions to complete the wiring.



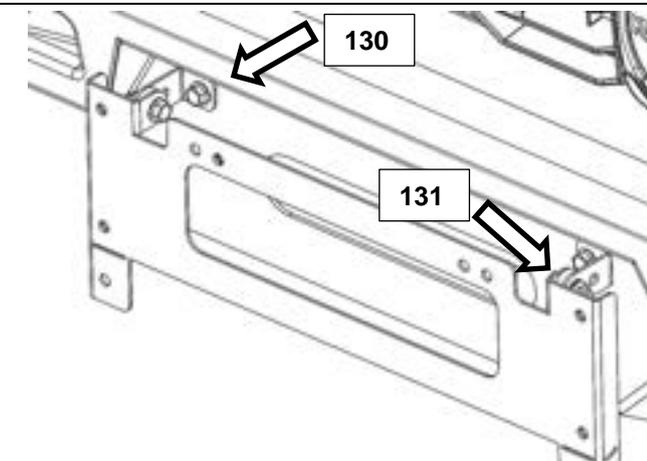
125. Mark out both front SORB's as shown.
126. Centre punch and drill using a Ø10.0mm drill bit.
127. Debur the holes and apply touch up paint.
128. Install a M6 nutsert in the drilled holes.



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



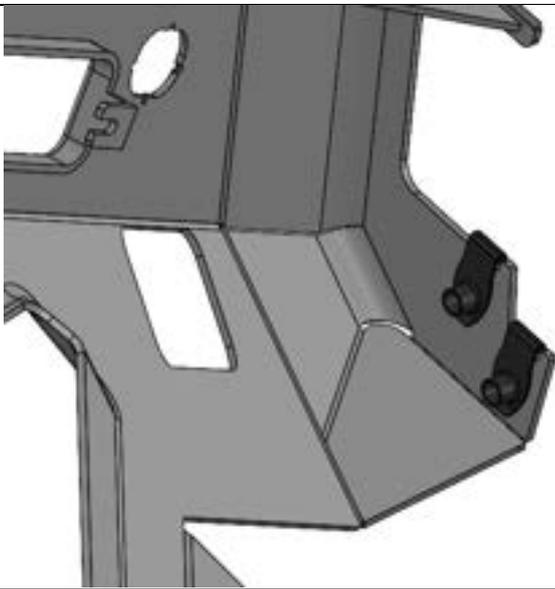
129. Loosly fit the under panel mount to the exposed threads retaining the SORB's using two M12 FL nuts per side.



130. Fit the number brackets to the front panel using one M6x20 FL bolt, one M6 washer and one M6 nyloc nut per side. Torque to specification.



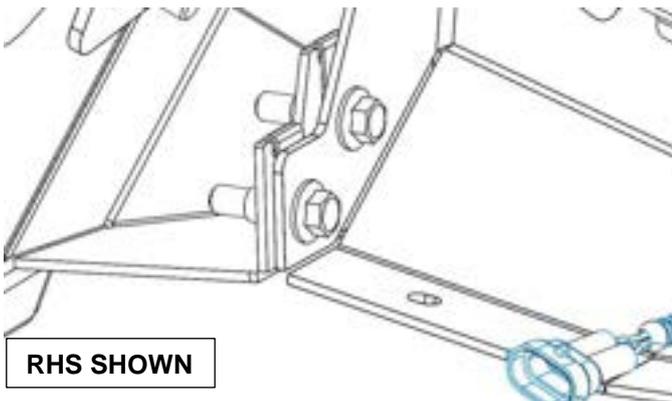
131. Install the main plate the brackets using one M6x20 FL, one nylon packer, one M6 washer and one M6 nyloc nut per side. Tighten to a snug fit.



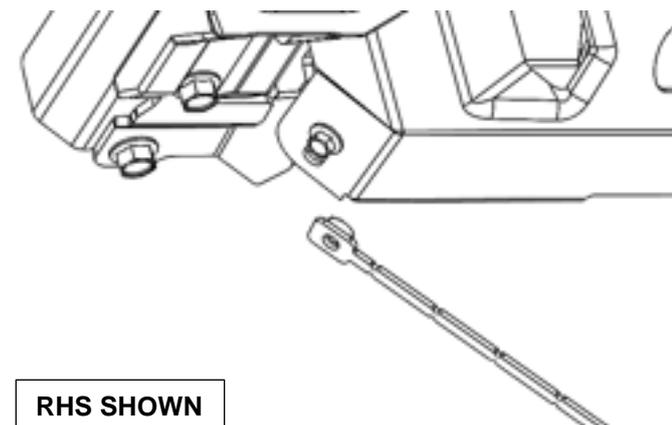
132. Each side of the front panel, fit two M8 U nuts with the threaded side towards the centre.  
133. Fit the remaining two sensor housings to the front panel.



134. Support the front panel on a trolley and while close to the bar, insert the two parking sensors.  
135. If a winch is fitted, feed the rope through the hole.  
136. Carefully fit the front panel to the bar, make sure the parking sensor looms are not pinched.  
137. Loosely fit two M12x1.75x40 FL bolts (with the Hawse if needed).



138. Fit two M8x30 FL bolts per side into the U nuts fitted to the front panel and leave loose.



139. Use an M8x30 FL bolt and M8 nut stick per side to mount the front panel to the recovery mounts.  
140. Torque all fasteners to specification.

 M8 - 22 Nm.

 M12 - 77 Nm.



141. Fit five M6 U nuts to each under panel and fit in place using five M6x20 FL bolts.  
142. Use one M8x30 FL bolt and one M8 FL nut per side to secure the under panel to the SORB mount.  
Tighten to specification.



M6 - 9 Nm.



M8 - 22 Nm.



143. Fit each SORB cover with three M6x20 FL bolts and two M6 FL nuts and torque to specification.  
144. Torque the M12 nuts to specification.



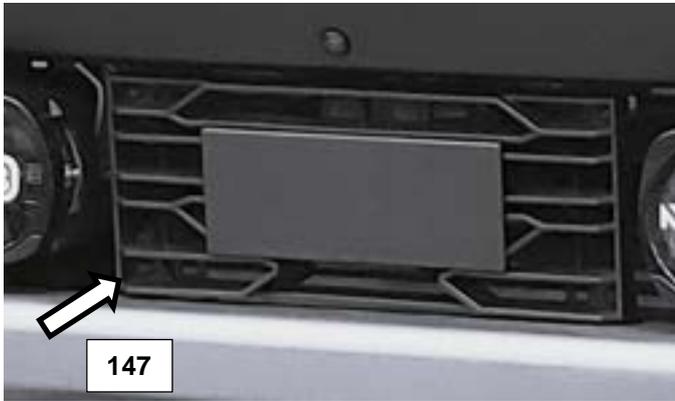
M6 - 9 Nm.



M12 - 77 Nm.



145. Refit the wheel arch scrivets to both side, then trim the wheel arch liners to be retained by the under panel return fold.



146. With the vehicle on the ground, adjust the radar to be level to the ground using a digital spirit level.
147. Fit the centre cut grille using four PHD screws.
148. Click the radar cover into place with the arrow pointing down.

## FITTED PRODUCT

### ONCE ZENITH 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, parking sensors, camera, washers etc. are functioning correctly.

