

Part Number: 3448450

Product COMMERCIAL BULL BAR

Description:

Suited to ISUZU DMAX 2012 ON

vehicle/s:

Optional Kits: 3540060 (WINCH) - 3548020 (WING STONE GUARDS)

NOTE: FOG LIGHTS CANNOT BE FITTED TO THIS BAR

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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Last Rev Date: 04/06/14 Page 1 of 24 Fitting instructions# 3789162

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.

Important electrical system information

To prevent overloading the turn and clearance lights must be activated through relays. Relay looms are provided within this kit to wire these lights. For further reference please see the supplied wiring diagram in these instructions.

FITTING REQUIREMENTS

REQUIRED TOOLS FOR FITMENT OF PRODUCT:

BASIC TOOL KIT	ELECTRIC DRILL & Ø4, Ø10, Ø10.5 & Ø13mm BITS	
JIG SAW WITH BLADE SUITABLE FOR PLASTIC	RIGHT ANGLE DRILL or 90° FITTING TO CONVERT A STANDARD DRILL	
FILE OR SAND PAPER	LOW TACK MASKING TAPE	
TAPE MEASURE	UTILITY KNIFE	
STEEL RULER	CLAMP	
HACK SAW	WHITE FELT MARKER	

HAVE AVAILABLE THESE SAFETY ITEMS WHEN FITTING PRODUCT:

Protective evewear



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	
	3788096	1	TEMPLATE INNER RAIL	
PREPARE VEHICLE	3788097	1	TEMPLATE OUTER RAIL	
	6191014	2	PINCH WELD	
	3789124	1	BUMPER CUT TEMPLATE	
	3759054R	1	RH MOUNT COLORADO	
	3759054L	1	LH MOUNT COLORADO	
	3194385	2	PLATE TAPPED COLORADO	
	4581083	8	WASHER FLAT M10 x 21 x 2	
	4581048	4	WASHER SPRING M10	
MOUNT TO VEHICLE	6151555	4	BOLT M10 x 30 SEMS BLACK	
MOUNT TO VEHICLE	6151381	4	BOLT M10 x 80	
	4721558	4	TUBE CRUSH HILUX B/BAR	
	3194384	2	PLATE RECT WASHER COLORADO	
	6151026	4	NUT M10 x 1.5	
	5848393	6	PACKER UPRIGHT COLORADO	
	6151207	4	BOLT M6 x 25	
	6151128	4	NUT FLANGE M6 WASHER FLAT M6 BLACK	
	4581082			
	3500080	1	INDICATOR KIT, COMPLETE	
	180302	6	CABLE TIES	
	6821198	1	RELAY LOOM	
INDICATORS TO BAR	3759084	1	BRACKET RELAY COLORADO	
	200702	1	BOLT HEX M6 x12	
	4581287	1	WASHER SPRING M6 BLACK	
	6151281	2	PAN HEAD SCREW M5 x 12	
	6151354	2	NUT M5 NYLOC	
	4581011	8	WASHER FLAT M12	
BAR TO VEHICLE	6151340	4	BOLT M12 x 50	
	4581050	4	WASHER SPRING 1/2	
	6151189	4	NUT M12	
	4581083	4	WASHER FLAT, M10	
	6151456	4	BOLT M10 x 45	
	6151321	4	NUT FLANGE M10	
NUMBER PLATE TO BAR	6821189	2	PLASTIC PLUGS	
	6151384	2	SELF TAPPING SCREWS	

PARTS LISTING					
APPLICATION.	PART NO.	QTY	DESCRIPTION		
MOUNT BRACE &	171122 20112117111 211111111111111111111				
LOWER STONE GUARD	6151315 4581082 4581287	3 3 3	NUT CAGED M6 WASHER FLAT M6 BLACK WASHER SPRING M6 BLACK		
	6151213 6151302 6151555	3 5 5	BOLT M6 x 20 BLACK NUT CAGED M10 BOLT M10 30 SEMS BLACK		
WHEEL LINER RETAINING BRACKETS	3759180R 3759180L 6151213 4581287 180302 3194535	1 1 4 4 4 2	BRACKET RH WHEEL LINER DMAX 12 ON BRACKET LH WHEEL LINER DMAX 12 ON BOLT M6 x 20 BLACK WASHER SPRING M6 BLACK CABLE TIES		
		TIONAL K	SPACER PLATE		
	EG50 4 RUBBER GROMMET				
	6151234 4581045 6151132	2 2 2	BOLT M8 x 25 BLACK WASHER FLAT M8 BLACK NUT FLANGE M8		
WINCH FITTING KIT (3540060)	180302 4581040 6151074	8 4 2	CABLE TIE WASHER FLAT M10 BOLT UNC 3/8 x 1 3/4		
	BLB850 3756499 3751564	3 1 1	BATTERY LEAD 850mm BLACK BACKET CONTROL BOX MULTIFIT BRKT CONTROL BOX		
	6522901R 6522901L 3759106	1 1 2	PANEL RH WING DMAX PANEL LH WING DMAX BRACKET PANEL WING DMAX		
WING STONE GUARDS (3548020)	4581082 4581287 6151213	12 8 12	WASHER FLAT M6 BLACK WASHER SPRING M6 BLACK BOLT M6 x 20 BLACK		
	6151128 6151315	4 8	NUT FLANGE M6 NUT CAGED M6		



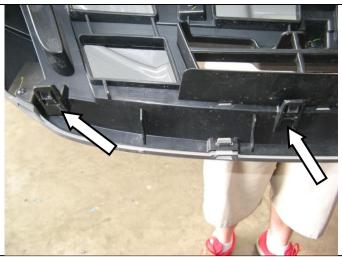
- 1. Read these instructions thoroughly before starting.
- 2. Remove 2 bumper retaining screws at the wheel liner (1 per side).

3. Remove the bumper retaining screws and scrivets from underneath the bumper.

4. Remove and retain the top three scrivets holding the bumper grill.



5. Remove and retain the front screw holding the bumper grill in place.



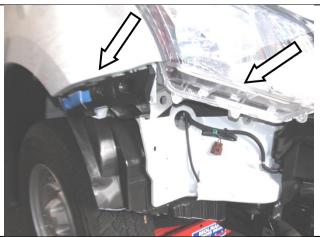
6. Use a flat head screw driver to unclip the vehicle grill from the bumper (4 places). Remove and retain the vehicle grill.



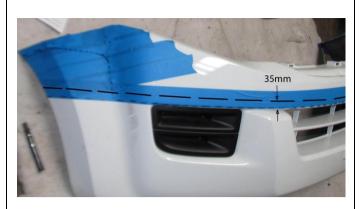
7. Remove and retain the upper rear bumper scrivets (1 per side).



- 8. Remove and retain the number plate from the bumper.
- 9. If the vehicle has fog lights fitted disconnect the right and left hand fog light looms.

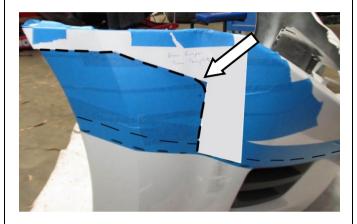


10. Carefully remove the bumper from the vehicle by pulling it away from the retaining clips located near the fenders and head lights.



11. Cover the vehicle bumper bar with protective low tack tape in the regions where it is to be trimmed.

Mark up the first cut line, all the way around the bumper, 35mm above the upper external bumper corner as shown on the adjacent image.



12. Cut the A3 paper template along identified cutting line (Part Number 3789124).

Fasten the template to the RH rear corner of the bumper with tape. Ensure the template is accurately positioned and flush with the upper rear edge of the bumper.

Use a black marker and mark up the second bumper cut line.

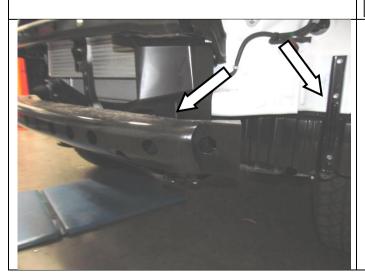
Use the same template and mark up the bumper cut lines on the LH rear corner of the bumper.



13. With the aid of an assistant, holding the bumper, trim and remove the lower portion of the bumper with an electric jigsaw.



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



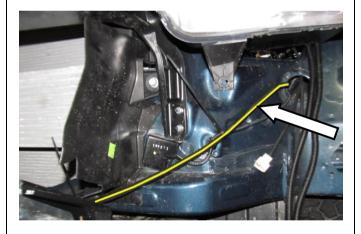
- Unbolt the RH & LH wheel liner retaining brackets.
- 15. Remove the lower bumper reinforcement beam using a 15mm socket.
 - 4 hex bolts fastening the beam to the vehicle chassis rails
 - 3 hex bolts fastening the stone guard to the lower bumper reinforcement beam



16. Unbolt the RH & LH bumper retaining brackets.

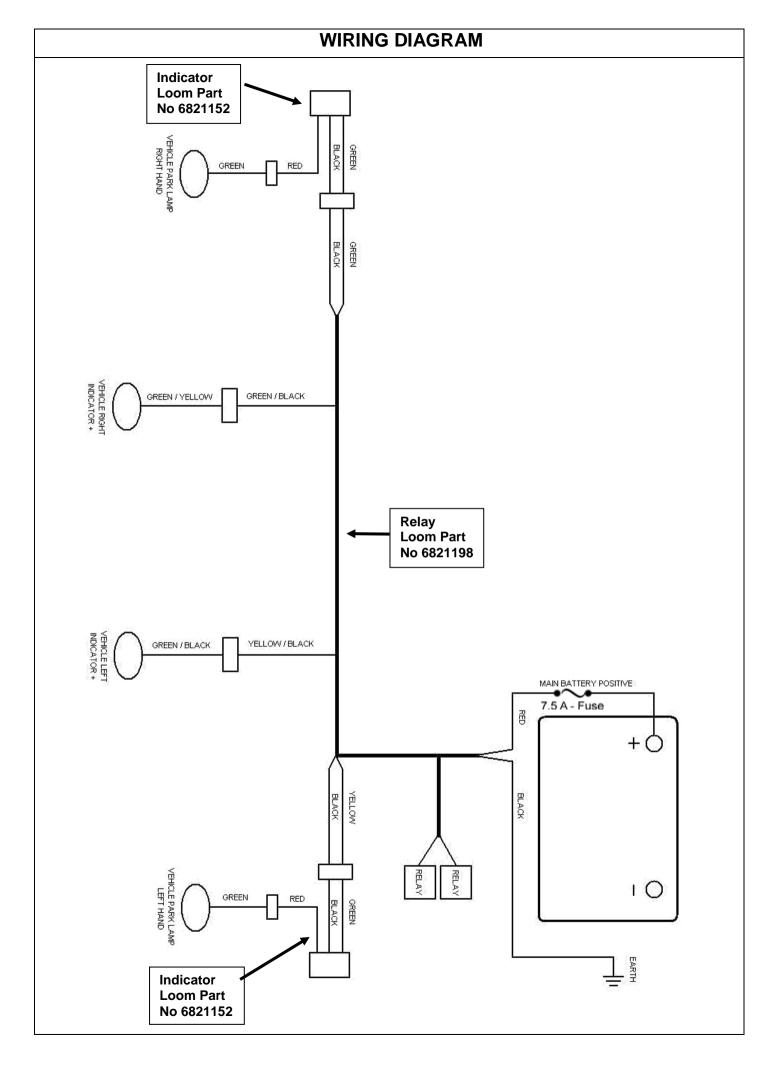


- Mark up and trim the RH & LH air deflectors using a sharp utility knife.
 - located above the chassis rails
 - the dimensions shown on the adjacent image include: 40 & 60mm



- Unscrew the RH and LH vehicle head lights for easy access to the rear electrical wiring.
- Loosely position the relay loom (6821198) in front of the vehicle radiator and feed each end of the loom through to the RH and LH vehicle head lights.

NOTE: THE LOOM END WITH THE RELAYS SHOULD BE ON THE LH SIDE OF THE VEHICLE, ON THE SAME SIDE AS THE VEHICLE'S BATTERY.



LOOM INSTALLATION

Driver's Side of Vehicle (RHS)

<u>FUNCTION</u>	<u>Vehicle Lamp</u>	Relay Loom	<u>Indicator Loom</u>
Indicator	GREEN	——— GREEN / BLACK	
Indicator		GREEN -	- GREEN
Earth		BLACK -	BLACK
Clearance Lamp	BROWN / RED		— RED

Passenger's Side of Vehicle (LHS)

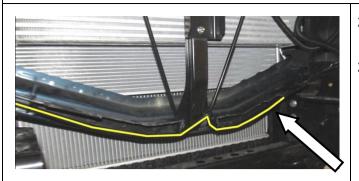
FUNCTION	Vehicle Lamp	Relay Loom	Indicator Loom
Indicator	YELLOW —	YELLOW / BLACK	
Indicator		YELLOW —	- GREEN
Earth		BLACK ———	— BLACK
Clearance Lamp	BROWN / YELLOW •		- RED

^{**}Wiring colours may vary with the vehicle

Carefully read the wiring diagram located at the previous page.

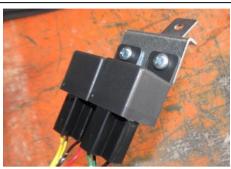


- 20. Starting on the RH side of the vehicle, use scotch locks to connect the relay loom (6821152) to the vehicle lamp wire. As shown on the table above, connect the Green / Black wire of the relay loom to the Green indicator wire at the rear of the right hand vehicle head light.
- 21. Next, connect one of the indicator looms (6821152), supplied in the bull-bar fitting kit, to the right hand vehicle clearance lamp wire and the relay loom as described in the above table.
- 22. Similarly to steps 20 & 21 connect the relay loom and the second indicator loom (6821152) to the left hand vehicle wiring as described in the table above.
 - NOTE: Two extra scotch locks have been supplied in the bull-bar fitting kit as required.
- 23. Re-fit the RH and LH vehicle head lights and position the indicator looms so that they dangle freely below the vehicle head lights ready for connection to the lamps in the bull-bar.



- 24. Fasten the relay loom to the vehicle with cable ties.
- 25. Connect the main relay loom power wire (red) to the positive battery terminal.

NOTE: USE THE MAIN BATTERY IF A **DUAL BATTERY SYSTEM IS** INSTALLED.



26. Attach the relays to the bracket supplied in the bull-bar fitting kit with two M5 x 12 pan head screws and two M5 nyloc nuts.



Undo the existing outer bolt holding the power steering reservoir bracket.

> Re-use this bolt to fit the relay bracket to the vehicle and fit the relay loom earth under the head of this bolt.



M6 - **9 Nm**.



Carefully remove the RH and LH black plastic bumper retaining brackets. Keep the fastening screws as they will be reused.



Use a white felt tipped pen to mark up the RH plastic bumper retaining bracket: the shaded region is to be cut off.



30. Use a hack saw to cut and remove the shaded portion of the bumper retaining bracket as shown in the adjacent image.

Repeat these two steps for the LH bumper retaining bracket.



31. Loosely refit the LH and RH bumper retaining brackets. It is not necessary to screw them in place yet.

NOTE: The adjacent image displays the LH bumper retaining bracket clipped into the LH vehicle fender.



32. Loosely fit the trimmed vehicle bumper.
With the bumper in place, use the trimmed edge of the vehicle bumper to mark the second trim line for the RH & LH bumper retaining brackets with a white marker.



33. Remove the RH & LH bumper retaining brackets from the vehicle. Clearly mark the second cut lines on both sides of the parts as shown.

The adjacent images show the LH bumper retaining bracket.





34. Use a hack saw to cut the RH and LH bumper retaining brackets. Once these cuts have been completed the parts should look like the adjacent images.

NOTE: The LH part is shown here.



35. Use a wheel approx as sho

35. Use a white marker to mark the upper wheel liner rectangular cut-outs approximately 60mm high x 20mm deep as shown. Next, use a sharp utility knife to cut out these rectangles from the RH and LH wheel liners.



36. Remove the bumper and mask the vehicle fenders and headlights. Use a spray can to paint the region immediately below that RH & LH vehicle fenders black.



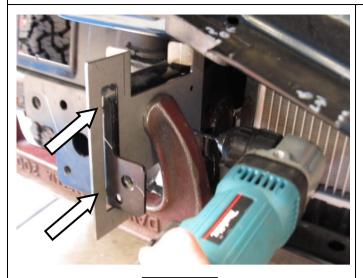
37. Refit the RH & LH bumper retaining brackets and secure them properly with the screws previously removed.

Fix the bumper to the vehicle refitting the previously removed fasteners.

Refit the vehicle grill and secure it using the original fasteners.



38. Fit the pinch weld, 2 off supplied with the bull-bar fitting kit, to the trimmed bumper as shown. Use side cutters to trim any excess pinch weld.







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

39. Clamp the inner chassis drilling template, identifiable with an "I" cut through the centre of this part, to the inside face of the RH chassis rail.

ENSURE THE LOCATING DATUMS
CONTACT THE FRONT CHASSIS FLANGE.
ENSURE THE TEMPLATE IS SITTING
CENTRALLY ON THE CHASSIS RAIL, IN

THE VERTICAL DIRECTION, BY
CHECKING THE CLEARANCE BETWEEN
THE UPPER AND LOWER LOCATING TABS
AND THE CHASSIS RAIL.

Once the template is positioned accurately on the chassis rail use a right angle drill to drill two Ø4mm pilot holes through the inner wall of the chassis rail.

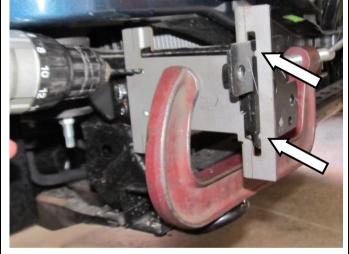
DO NOT DRILL STRAIGHT THROUGH THE OUTER WALL OF THE CHASSIS RAIL NOW.

NOTE: If you do not have a right angle drill a right angle drill attachment can be bought from a hardware store.

40. Clamp the outer chassis drilling template, identifiable with an "O" cut through the centre of this part, to the outside face of the RH chassis rail.

ENSURE THE LOCATING DATUMS
CONTACT THE FRONT CHASSIS FLANGE.
ENSURE THE TEMPLATE IS SITTING
CENTRALLY ON THE CHASSIS RAIL, IN
THE VERTICAL DIRECTION, BY
CHECKING THE CLEARANCE BETWEEN
THE UPPER AND LOWER LOCATING TABS
AND THE CHASSIS RAIL.

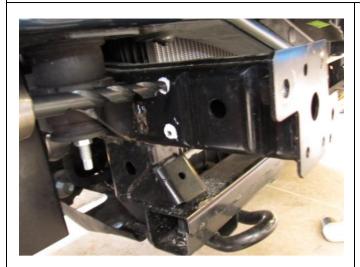
Once the template is positioned accurately on the chassis rail drill the two Ø4mm pilot holes through the outer wall of the chassis rail.







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



41. Drill two Ø13mm holes through the outer wall of the chassis rail only.

DO NOT DRILL STRAIGHT THROUGH THE INNER WALL OF THE CHASSIS RAIL NOW.





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



42. Replace the Ø13mm drill bit with a Ø10.5mm drill bit and pass the drill through the Ø13mm holes.

USE A SECOND PERSON TO WATCH AND ENSURE THE DRILL IS LOCATED CORRECTLY ON THE Ø4mm PILOT HOLES, ON THE INNER WALL OF THE CHASSIS RAIL, DRILLED AT STEP 39.

IT IS CRITICAL THAT THESE HOLES ARE ACCURATELY LOCATED.

Drill two Ø10.5mm holes through the inner wall of the chassis rail.





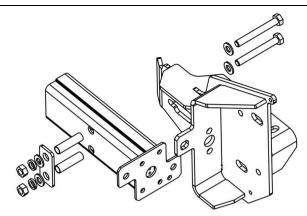
Warning: Drilling operations can result in flying metal debris, safety glasses should be worn.

43. Paint all drilled holes with rust inhibiting paint.



44. Insert the nut plate, from the bull-bar fitting kit, through the front flange of the chassis rail with the wire attached.

ENSURE THE WIRE REMAINS
ATTACHED TO THE NUT PLATE AND
PROTRUDES FROM THE CHASSIS
RAIL.



45. Loosely fit the right hand bull-bar mount to the chassis rail using the: M10 x 80 bolts (2 off), flat washers (4 off), crush tubes (2 off), rectangular plate (1 off), spring washers (2 off) and hex nuts (2 off) from the bull-bar fitting kit.

Ensure these bolts are orientated as shown in the adjacent image with the head of the bolt on the inside of the chassis rail.



46. Re-use one of the chassis bolts, removed at step 15, to firmly locate the bull-bar mount bracket to the chassis.

Ensure the mount fits well and in-line with the chassis flange.

NOTE: This bolt will be removed prior to bar fitment.



47. Use a punch to mark the two holes in the front of the chassis rail.

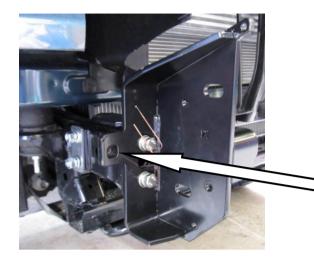
Drill two Ø4mm pilot holes. Next open these holes with a Ø10.5mm drill bit.

Paint these drilled holes with rust inhibiting paint.





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



Fasten the two M10 x 30 SEMS bolts to the nut plate inserted in the chassis at step 44. Use the wire, shown in the adjacent image, to correctly position the nut plate.

Tighten the two M10 x 30 hex bolts.



M10 - **44 Nm**.

Tighten the two M10 x 80 hex bolts (fit at step 45).



M10 - **44 Nm.**

Remove the chassis bolt fit at step 46.

Note: DO NOT REMOVE THE WIRE USED TO POSITION THE NUT PLATE AS IT MAY BE REQUIRED IN THE FUTURE IF THESE MOUNTS ARE REMOVED.

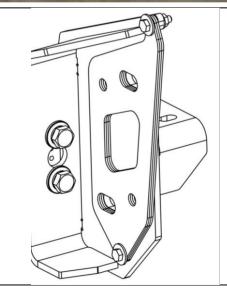
> Repeat steps 39 to 48 for the left hand chassis mount.



- Use a tape to measure the distance between the two outer faces of the bullbar mounts.
 - The nominal design dimension is 722mm. This may differ, however, due to vehicle chassis variation.

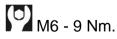


- 50. Measure the distance between the bullbar mounting faces.
 - The nominal design dimension is 736mm.



Fit an equal number of 2.5mm packers to 51. the RH and LH mounts as required with the M6 x 25 bolts (2 per mount), flat washers and flange nuts.

The total clearance between the bull-bar mounting faces and the mounts should be roughly 1-2mm.





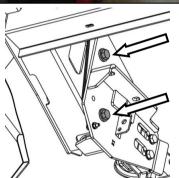
52. If fitting a winch follow the fitting instructions provided in the 3540060 kit

If not fitting a winch proceed to step



With the assistance of another person, place the bar on the mount brackets.

> Warning: Due to the weight of the bar and 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.



54. Use the M12 x 50 hex bolts (2 per mount), flat washers (4 per mount), spring washers (2 per mount) and hex nuts (2 per mount) to secure the bar.



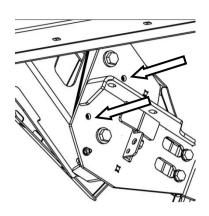
Position the bar so that the rear of the wing is parallel with the vehicle fender and lines up with the wheel arch. The nominal distance between the vehicle fender and the bull-bar is 48mm.

> Once happy with the position of the bar tighten the M12 mounting bolts.



M12 - **77 Nm.**





56. Once satisfied with the position of the bar on the vehicle drill the four Ø10mm pinning bolt holes (2 per mount).

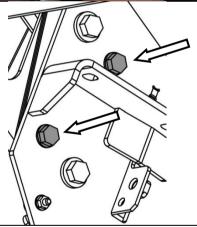




Warning: Drilling operations can result in flying metal debris, safety glasses should be worn.



- 57. Measure the distance from the RH vehicle fender to the outer face of the RH bull-bar wing. Repeat on the LH side to confirm the bar is sitting centrally on the vehicle.
- 58. If not, remove the bar from its mounts and shift the required number of 2mm packers installed on the bull-bar mounts, fit at step 51, from one mount to the other. Next refit the bar on the mounts lining up the Ø10mm holes drilled at step 56.



59. Once satisfied with the fitment of the bar to the vehicle, fit the M10 x 45 hex bolts to the RH & LH mounts (4 off - 2 per mount), flat washers (4 off) and flange nuts (4 off).

Tighten the four M10 x 45 hex bolts.



M10 - 44 **Nm**.

Tighten the four M12 x 50 hex bolts.

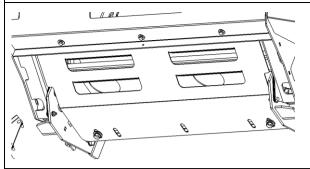


M12 - **77 Nm.**



- 60. Connect the RH and LH indicator looms, fit at steps 18 23, using the scotch locks supplied in the indicator fitting kit (350080), to the bull-bar indicators. Cable tie to existing loom.
- 61. If fitting driving lights it is advisable to fit them now.

FITTING PROCEDURE 62. IF NOT FITTING A WINCH Insert the two plastic plugs into the square holes in the front of the bar. Next, screw the number plate to these grommets. Fit three M6 cage nuts to the centre stone guard as shown. Fit five M10 cage nuts to the centre bullbar brace. Ensure the cage nuts are inserted with their legs as shown, so they can slide along the rectangular slots. Loosely fit the centre bull-bar brace to the bull-bar mounts using four M10 x 25 hex bolts, four flat washers and four flange nuts are shown. After confirming that the vehicle stone guard bolt holes will fit and line up with the M10 cage nuts in the bull-bar brace tighten the four M10 x 25 hex bolts. M10 - **44 Nm.**



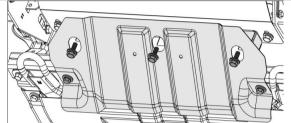
Fit the centre stone guard to the bull-bar / vehicle with: three M6 x 20 black hex bolts, spring washers, flat washers and two M10 x 30 black SEMS bolts.



M6 - **9 Nm**.



M10 - **44 Nm**.



Refit the original vehicle stone guard using two of the original M10 bolts, at the rear of the stone guard, and three M10 x 30 black SEMS bolts at the front.



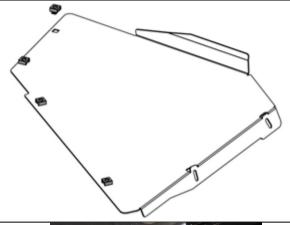
M10 - **44 Nm.**



IF WING STONE GUARDS ARE NOT BEING INSTALLED COMPLETE STEPS 68 - 69. OTHERWISE GO TO STEP 70

- 68. Loosely fit the RH and LH wheel liner retaining brackets to the vehicle using 6mm spacer plate between bracket and panel, M6 x 20 black bolts and black M6 spring washers. As shown on the adjacent photo, use a white marker to draw a line on the wheel liner 5mm below the lower edges of the wheel liner retaining brackets.
- 69. Cut off the lower portion of the wheel liners at the upper line with a utility knife or heavy duty scissors. Tighten bracket and using holes as guides drill two 6mm dia holes in liners. Secure liner to bracket using cable ties supplied. M6 - 9 Nm.





70. Fit the M6 cage nuts to the two wing stone guards (4 per stone guard).

If you are fitting wing under panels make sure that steps 68 and 69 are skipped.



71. Fit the 2 wing stone retaining brackets to the vehicle chassis using the outer bolts holding the vehicle recovery points.

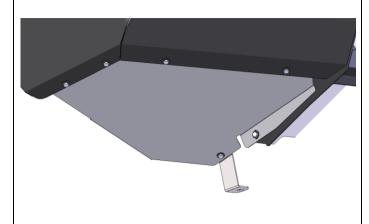


72. Loosely fit the RH and LH wing stone guards to the bull-bar. As shown on the adjacent photo, use a white marker to draw a line on the wheel liner at the lower rear edges of the stone guards.

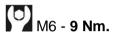


73. Remove the two wing stone guards and mark a second line 5mm above the first line on the RH and LH wheel liners.

Cut off the lower portion of the wheel liners at the upper line with a utility knife or heavy duty scissors.



- 74. Fit the RH wing stone guard with:
 - four M6 x 20 black hex bolts, four spring washers and four flat washers through the wing
 - two M6 x 20 black hex bolt, two flat washers and two flanges nuts at the bullbar mount and the stone guard retaining bracket
- 75. Fit the RH wheel liner over the rear lip of the stone guard so it is securely held.
- 76. Repeat steps 74 & 75 for the LH wing stone guard.



FINAL CHECKS:

- ♦ Check wiring connections to fitted lights and winch.
- ♦ Check operation of winch and all lights.
- ♦ IMPORTANT: Check that all piping and wiring is clear of sharp edges and pinch points. Adjust any piping to clear the bull bar or mounts by a minimum of 15mm.

FITTED PRODUCT

