



FITTING INSTRUCTIONS

Part Number: **3448340**
Product **BULL BAR / WINCH BAR**
Description:
Suited to **HOLDEN RODEO 07 ON**
vehicle/s: **ISUZU D-MAX 08 ON**

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

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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:

BASIC TOOL KIT
DRILL AND 6, 8 10 & 12mm DRILL BITS
KEYHOLE SAW OR SIMILAR (FOR TRIMMING PLASTIC BUMPER)
BLACK SPRAY PAINT
MASKING TAPE
MARKING PEN

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	4lbft
M8	22Nm	16lbft
M10	44Nm	32lbft
M12	77Nm	57lbft

PARTS LISTING – FITTING KIT # 6172283

APPLICATION.	PART NO.	QTY	DESCRIPTION
JOIN GRILL TO BUMPER BAR	6151180	2	BOLT M6 x 20MM
	4581072	4	WASHER FLAT M6
	5848302	2	PACKER NYLON
	6151162	2	NUT NYLOC M6
GRILL RETAINING BRACKETS TO VEHICLE	3757031L	1	BRACKET GRILL LHS
	3757031R	1	BRACKET GRILL RHS
	6151300	2	NUT CAGED M6 (3MM)
	6151180	2	BOLT M6 x 20MM
	6151046	2	WASHER FLAT M6
	4581036	2	WASHER SPRING M6
INDICATOR / CLEARANCE LAMP TO BULL BAR	180302	6	CABLE TIES
	180701	6	SCOTCH LOCKS
	6821152	2	INDICATOR LOOM
	6821151L	1	INDICATOR
	6821151R	1	INDICATOR
	6151308	4	SCREW SELF TAPER
	6821116	4	PLUG PUSH IN
MOUNTING SYSTEM TO VEHICLE	3757578	1	BRACKET MOUNTING SYSTEM
	6151026	1	M10 X 1.5 NUT
	3199915	1	PLATE CAGE NUT
	4581007	3	1/2 X 1 1/2 X 4 WASHER
	6151302	1	M10 CAGE NUT
	4581048	4	M10 SPRING WASHER
	6151090	2	M10 X 1.25 X 50 BOLT
	6151204	2	M10 X 1.5 X 35 BOLT
	4581040	9	M10 WASHER
BULL BAR TO MOUNTING SYSTEM	5848328	2	SPACER 15MM
	4581040	8	WASHER FLAT M10
	6151357	8	M10 X 30 SEMS
	6151026	8	NUT M10 x 1.5
AIR DAM FROM BULL BAR TO MOUNTING SYSTEM	6151301	3	NUT CAGED M8 (4MM)
	3314666	1	PAN RODEO STONE SHIELD
	4581036	4	WASHER SPRING M6
	4581044	3	WASHER FLAT M8
	4581046	3	WASHER SPRING M8
	4581072	4	WASHER FLAT M6 LARGE
	6151021	3	BOLT M8 x 20 MM
	6151180	4	BOLT M6 x 20MM
LICENSE PLATE TO BULL BAR	6151300	4	NUT CAGED M6 (3MM)
	6151384	2	SCREW PAN HEAD 5 x 16MM BLACK
	6821189	2	GROMMET LICENCE PLATE

THE FOLLOWING COMPONENTS TO BE USED IN A WINCH BAR

WINCH FITMENT	180302	8	CABLE TIES
	3756499	1	BRACKET CONTROL BOX MULTI FIT
	4581040	4	WASHER FLAT 3/8" x 1"
	4581044	2	WASHER FLAT M8
	6151021	2	BOLT M8 x 20MM
	6151074	2	BOLT 1 3/4" x 3/8" UNC
	6151132	2	NUT FLANGED M8
	6821110	1	GROMMET RUBBER 60MM

VEHICLE PREPARATION



1. Remove grill from vehicle
2. Remove bumper from vehicle
3. Remove all brackets from vehicle as shown in photo.



4. When all brackets have been removed, the vehicle should be presented as shown.

NOTE - Turbo diesel model shown.



5. Paint area under head lights black using a spray pressure pack or similar.

NOTE – To prevent overspray, cover the head lights with masking tape



6. Remove the two front bolts from the vehicle sump guard and loosen off the two rear splash pan bolts.

NOTE: Photo is of RHS of vehicle

VEHICLE PREPARATION



The bumper bar must be cut before it is refitted to the vehicle.

7. With grill and bumper separated, lay them face up on a flat surface.



8. Mark a line on the front face of the bumper as shown. Make the line 25 mm below the grill opening as shown
9. Cut the bumper along this line using a key hole saw or similar.



10. When complete, the bumper should look as shown.

VEHICLE PREPARATION



11. Reattach the grill to the bumper and place them face down on a clean, soft surface.
12. Mark 2 holes 25 mm from the edges of the bumper as shown.



13. Drill a 6 mm hole through both the bumper and the grill at each of these points.



14. Bolt the grill and bumper together using 2 M6 x 20 mm bolts, flat washers and nyloc nuts.

Place a flat washer under both the bolt head and the nyloc nut.

Place a nylon packer between the grill and the bumper as shown.



15. The grill retaining brackets are supplied as a pair. The brackets can be separated by twisting them apart as shown.
16. Fit one M6 cage nut to each grill retaining bracket as shown.

VEHICLE PREPARATION



RHS of vehicle



LHS of vehicle

17. Fit the grill retaining brackets to the M6 studs as shown. Use the original M6 nuts to retain the brackets.

NOTE: The cut out in the left hand bracket should fit around the air conditioning component as shown.

ORIGINAL BOLTS

PLASTIC FASTENERS



M6 x 20mm BOLTS

18. Refit the top of the grill and bumper to the vehicle using the original M6 bolts and plastic fasteners.

19. Fasten the lower edge of the grill to the grill retaining brackets using the M6 x 20mm bolts, spring washers and flat washers provided



20. Find the clearance, indicator and earth wires for each headlight using a test lamp. Wire the indicator looms to the head light looms using the scotch locks provided. (see table below)

FUNCTION	INDICATOR HARNESS	VEHICLE COMBINATION LAMP	
		RIGHT	LEFT
INDICATOR	GREEN	GREEN / WHITE	GREEN / BLACK
EARTH	BLACK	BLACK	BLACK
CLEARANCE LAMP	RED	GREEN / BROWN	GREEN / BROWN

FITTING MOUNTING SYSTEM



21. Fit the mounting system to the vehicle as shown.

Fit the original vehicle bolts to the front of the mounting system as shown. (on some vehicles the outer captive nut is not present and the outer bolts can't be installed)

Fit an M10 panel washer under the head of each bolt. - bolts finger tight only.



22. Fit original vehicle bolts to the outermost holes in the mounting system as shown.

Fit an M10 panel washer under the head of each bolt.

NOTE: Leave these bolts finger tight at this stage.



23. Refit the sump guard to the vehicle using the M10 x 50mm bolts, flat washer and spring washers provided.

24. Place the pan packers provided between the sump guard and the mounting system as shown.



25. Fit 3 M8 caged nuts to the cross member of the mounting system as shown.

BAR PREPARATION



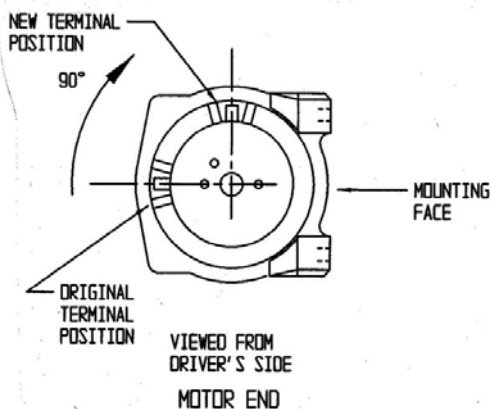
26. Fit two nylon plugs to each indicator bracket as shown.
27. Fit 4 M6 caged nuts to lower edge of the bull bar



28. Install the indicators into the bar using the self tapping screws provided. Discard the screws supplied with the indicators.

NOTE: The indicators should be installed with the drain holes at the bottom

WINCH FITMENT



IF NOT FITTING A WINCH, GO TO STEP 43.

29. To place the winch motor in the correct location the winch motor must be rotated 90 degrees, in a clockwise direction when viewed from the motor end.

Place the winch on its end and remove the 2 motor retaining bolts.

Gently raise the motor just enough to rotate it . Do not completely remove the motor as this will damage the gasket .
Refit all of the bolts and tighten .

NOTE :- Take care not to lift the assembly more than a couple of millimetres while rotating to the desired position to avoid unmeshing the gears.

WINCH FITMENT

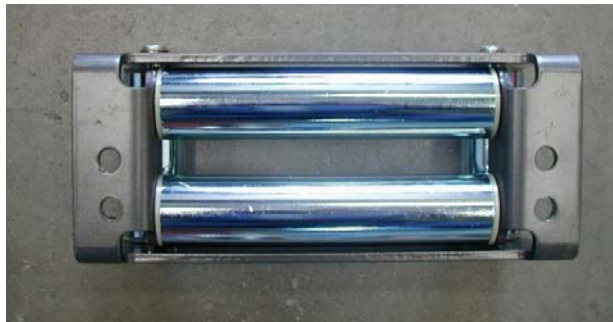


30. Remove the cap head screws retaining the gearbox to the winch drum. Carefully lift and rotate the gearbox 144 degrees counter clockwise (four hole space) and re-fit the cap screws.

WARNING – Do not separate the gearbox more than 4mm from the housing.



31. Lay the winch on a suitable surface and place the bull bar on top so that the wire rope will feed from the bottom.
32. Using two 3/8" x 1 1/2" bolts, M10 flat and spring washers, attach the bull bar to the winch through the top two holes



33. Using a 12mm drill bit, drill two new holes in the roller fairlead 25mm below the original holes

Drill the new hole 25mm below



34. Remove the cir-clips from the bottom of the vertical rollers of the fairlead and push the pin upwards. Push the vertical rollers inwards and using two 3/8" x 1 3/4" bolts, M10 flat and spring washers, attach the roller fairlead to the bar.
35. Replace the circlips on the vertical rollers.



36. Fit the rubber grommet to bull bar.
37. Attach the control box to the control box bracket.
38. Fit the control box to the bar with two M8 x 20mm bolts, M8 flat washers and M8 flange nuts.
39. Run the cables through the rubber grommets and connect to the winch as per wiring diagram supplied with the winch.
40. Using cable ties, fix the cables away from any moving, sharp or hot surfaces.

BULL BAR FITMENT



41. With the help of another person, lift the bar into position and secure using the M10 X 30mm SEMS bolts, with washers and nuts. Leave these bolts finger tight.

NOTE: The bull bar should slide outside the mounting system.



42. The bar should sit centrally to the body, with the edges of the bar in line with the edge of the flare as shown. The bar can be adjusted horizontally by sliding the mounting brackets left or right.
43. When adjusted correctly tighten all mounting bracket bolts to the specified torque.



44. Using the mounting system as a template, drill a 10mm hole through the right hand chassis bracket as shown.



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



45. Fit an M10 cage nut to the caged nut bracket.
46. Fit the caged nut bracket through the hole in the right hand side of the chassis as shown.



47. Secure the mounting system to the chassis using the M10 X 35mm bolt, flat washer and spring washer provided.



48. Fit the 1/2 x 1 1/2 x 4mm Washer between the vehicle tie down and the bar mounting system as shown. Secure the spacer using the M10 x 35mm bolt and M10 hardware provided. Fit an M10 washer inside the tow hole to centrally locate the bolt. Use the 2nd 1/2 x 1 1/2 x 4mm Washer, an M10 flat washer and a spring washer on the inside of the vehicle tie down.

Tighten all bolts to the recommended torque.



49. Adjust the bar so there is a 25mm vertical gap between the bar and the body as shown.



50. Ensure that there is even clearance between bar the headlights and the grill.



51. Ensure that the bar is central to the vehicle. When happy with the position of the bull bar, tighten all bolts to the recommended torque.



52. Using the lower holes in the bull bar as a guide, drill a 10 mm hole through both the right hand and left hand faces of the mounting system as shown.

NOTE – RHS of vehicle shown.



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



53. Fit an M10 SEMS bolt through each of the holes drill in the previous step. Secure the bolts using the M10 flat washers and nuts provided.

54. Tighten these bolts to the recommended torque.

NOTE - RHS of vehicle shown.



55. Trim the inner guard liners so it does not protrude below the bar.

NOTE - RHS of vehicle shown.



56. Using the hole in the lower section of the vehicle bulkhead as a guide, drill an 8mm hole through the inner guard liners as shown.



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



57. Cable tie the inner guard liner to the bulkhead panel as shown. Trim any excess liner that protrudes below the bulkhead.



58. Fit the air dam to the bull bar using the M6 X 20mm bolts, flat washers and spring washers provided.

59. Fit the air dam to the mounting system using the M8 X 20mm bolts, flat washers and spring washers provided.



BULL BAR LOCATION

60. To fit the license plate to the bar, first push two nylon plugs into the front face of the top pan.

61. Fit the license plate using the two pan head screws provided.

NOTE: The photos show the license plate position for both bull bar and winch bar fitments.



WINCH BAR LOCATION

FITTED PRODUCT

