

Part Number: 3934100 ARB BUMPER BAR

Suited to MITSUBISHI PAJERO "NS" 4 DOOR FLARED GXL, VRX AND EXCEED vehicle/s: **FITTING KIT 6172459**

**** EXCEED HEADLAMP WASHER SYSTEM IS NOT COMPATIBLE WITH THIS PRODUCT

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. ٠ 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. ٠
- Do not remove labels from this bull bar. ٠
- This product or its fixing must not be modified in any way. ٠
- The installation of this product may require the use of specialized tools and/or techniques ٠
- It is recommended that this product is only installed by trained personnel ۲
- These instructions are correct as at the publication date. ARB Corporation Ltd. cannot be held ٠ 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	POWER DRILL DIA 13.0mm(1/2") CAPACITY
POWER HACKSAW OR JIG SAW	DRILL BITS DIA 7.0 & 10.5,
LARGE "G" CLAMP	PHILIPS AND FLAT BLADE SCREWDRIVERS
TAPE MEASURE	MASKING TAPE
STANLEY KNIFE	SMALL ANGLE GRINDER AND CUTTING WHEEL
WHITE AND BLACK MARKER PENS	PIN PUNCH
HAMMER	

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.

SIZE	Torque Nm	Torque Ibft
M6	9Nm	7lbft
M8	22Nm	16lbft
M10	44Nm	32lbft
M12	77Nm	57lbft

FASTENER TORQUE SETTINGS:

PARTS LISTING				
APPLICATION.	PART NO.	QTY	DESCRIPTION	
	3757510R	1	BRACKET IMP ABS ASSY	
	3757510L	1	BRACKET IMP ABS ASSY	
	3757508R	1	BRACKET CHASSIS INBOARD	
	3757508L	1	BRACKET CHASSIS INBOARD	
MOUNT BRACKETS TO VEHICLE	3757509R	1	BRACKET CHASSIS OUTBOARD	
	3757509L	1	BRACKET CHASSIS OUTBOARD	
	3199915	6	PLATE CAGE NUT	
	6151302	6	CAGE NUT M10	
	6151357	16	BOLT SEMS M10 X 30mm	
	6151321	10	NUT FLANGED M10	
FIT BULL BAR TO MOUNT	6151357	8	BOLT SEMS M10 X 30mm	
BRACKETS	6151321	8	NUT FLANGED M10	
	3756209	1	BRACKET CONTROL BOX	
FIT CONTROL BOX TO BULL BAR	6151021	2	BOLT M8 X 20mm	
	4581044	2	WASHER FLAT M8	
	6151132	2	NUT FLANGE M8	
	3751451	1	BRACKET NUMBER PLATE	
NUMBER PLATE TO WINCH BAR	6151017	4	BOLT M6 X 16mm	
	6151046	4	WASHER FLAT M6	
	6151128	4	NUT FLANGE M6	
NUMBER PLATE TO NON-WINCH	6151384	2	SCREW	
BAR	6821189	2	GROMMET	
	6151213	6	BOLT M6 X 20mm BZ	
FENDER LINER RE-FASTENING	4581082	6	WASHER FLAT M6 LG BZ	
	6151128	6	NUT FLANGE M6	
	6521031	1	COVER WINCH	
FIT WINCH COVER TO BULL BAR	6191005	1	EXTRUSION COVER WINCH	
IN NON-WINCH APPLICATION	6151256	2	SCREW BUT HD ST STL M6 X 16mm	
	4581304	2	WASHER M6 S/S	
	6151128	2	NUT FLANGE M6	
	6821151R	1	INDICATOR ASSEMBLY RH	
	6821151L	1	INDICATOR ASSEMBLY LH	
INDICATORS TO BULL BAR	180302	6	CABLE TIES	
	6821152	2	LOOM	
	180701	6	SCOTCH LOCKS	
LIGHT SURROUND ASSEMBLY	3163015	1		
	180302	2	CABLE TIES	
	6522714R	1	UNDER WING PAN RHS	
	6522714L	1	UNDER WING PAN LHS	
UNDER WING PANS	4581082	10	WASHER M6	
	4581287	10	SPRING WASHER M6	
	6151213	10	SCREW M6 X 20 BZ	
	6151300	10	CAGED NUT M6	
	6151255	2	BOLT M12 X 1.75 40mm	
CENTER FRAME TO BAR	4581049	2	WASHER FLAT 1\2"	
	4581050	2	WASHER SPRING 1/2"	

	3758030	1	BRACKET SIREN MOUNT
	6151303	3	NUT CAGED M8
SIREN MOUNT	4581307	3	WASHER FLAT M8 BZ
	4581047	3	WASHER SPRING M8 BZ
	6151262	3	BOLT M8 X 20 BZ
	6191014	2	PINCH WELD @ 330mm
	3783282	1	CUTTING TEMPLATE BUMPER
	4581040	2	WASHER FLAT 3/8" (RFL)
MISCELLANEOUS	6151074	2	BOLT 3/8" X 1 ¾" (RFL)
	180302	6	CABLE TIES
	3162152	2	PLASTIC PLUG Ø16.0MM
	6151128	12	NUT FLANGED M6
BUFFER KIT			
SAHARA BAR (5100020)	3162469R&L	1	BUFFER 260 X 230 (HOLE)
. , ,			
BUFFER KIT	3162466R&L	1	BUFFER 260 X 230 (NO HOLE)
SAHARA BUMPER (5100030)			
5134010 CENTER FRAME			
(SAHARA BAR ONLY)	6131555	1	TOP TUBE ASSEMBLY

SHADED AREAS INDICATE ADDITIONAL KITS REQUIRED, DEPENDENT ON SAHARA BAR/BUMPER SELECTION.

OPTIONAL LIGHT SETS TO SUIT THIS PRODUCT:

- ARB 6821201 FOG LAMP SET
- Up to IPF 900 SERIES FOG OR DRIVING LIGHT SETS

OPTIONAL WINCHES WHICH FIT THIS BULL BAR:

• WARN 8000, 9000 AND 9.5XP

*** **NOTE**:

> WASHER JET FOR HEADLAMPS, AS FITTED TO EXCEED WILL NOT BE ABLE TO OPERATE WITH BAR IN POSITION.

BUMPER REMOVAL		
	1.	Remove stone tray
	2.	Remove plastic scrivets and bolts securing lower bumper tabs.
	3.	Remove screws securing fender liner to bumper and bumper bracket in wheel arch area. Remove liner and bumper retaining brackets.
	5.	Undo vertical screws securing bumper to fender

BUMPER	REN	IOVAL
	6.	Remove scrivets securing grille across the top and pull grille upward to release lower clips.
	7.	Remove upper bumper retaining scrivets.
"A Contraction of the second s	8. 9.	Remove number plate. Remove scrivets behind number plate position
	10.	Free the end of the flare from the bumper by pulling outward in the lower region as shown.

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BUMPER	REM	IOVAL
	11.	With flare loose to bumper, pull the bumper end outward and forward to release it from the holding bracket on both sides then remove bumper entirely.
	12.	Place bumper on soft non abrasive surface as the upper part will be reused and should not be damaged.
	13.	Undo upper cross member fasteners as shown on both ends as shown.
	14.	Remove cross member central fasteners then set aside.
	15.	If fitted, remove fog lamps including trim rings and set aside.

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BUMPER REMOVAL





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FIT MOUNT BRACKETS



FIT MOUNT BRACKETS

<image/>	 49. <i>If refitting siren</i> fit cage nuts as shown top view 50. Fit bracket to side of brace shown step 48 on outer RHS of vehicle using M10 SEMS bolts and cage nuts supplied. <i>NOTE: You may have to loosen bolts in front flange of reinforcing bracket</i> 51. Fix siren to bracket with M8 bolt and washer sets, reconnect electrical and tighten all bolts to specified torque. This end to front of vehicle Use these holes to bolt to vehicle with reinforcing bracket in between
	 52. Inboard bracket shown on RHS 53. Drill 1 x Dia 10.5 hole on the inboard side and 2 x holes on the outboard side using existing holes in reinforcing brackets to guide drill. Image: The second seco
	54. Fit 6 x cage nuts to access arms as shown.

FIT MOUNT BRACKETS

	55. Estimate the bend profile and then bend each of the access arms so that the cage nuts will align with the 3 x drilled holes in each chassis.	
	56. Feed the arms through the lower holes in chassis one at a time and secure with M10 SEMS fasteners through holes in brackets.	
	57. Once all are through and started do up tight.	
	58. Bend the arms back and hard against the	
	chassis.	
Church Church	59. At front lower flange on mount bracket, drill Dia 10.5 through chassis using the lowest hole in the mount bracket as a guide.	
	60. Insert an M10 SEMS and using an M10 flange nut inserted into the chassis end secure and do up tight.	
The Ca		
	Warning: Drilling operations can result in flying metal debris, safety glasses should be	
	61. Drill Dia 10.0 pinning hole in lower flange of mount bracket into the vehicle crossmember	
	Warning: Drilling operations can result in flying metal debris, safety glasses should be	

FIT MOUNT BRACKETS Image: Series of the series of



PREPARATION OF BAR



PREPARATION OF BAR		
71.	72. Fit control box bracket	
	 73. Fit control box 74. Connect the winch control box cables to the winch motor. Refer to the Warn handbook for additional information. Connect the long winch + & - cables to the vehicle after the bar is installed. Refer to the Warn winch manual for vehicle wiring instructions. <i>CAUTION: All wiring must be securely cable tied clear of any hazardous or potentially hazardous working areas of the winch and must not be exposed to sharp edges or susceptible to fretting.</i> 75. Fit number plate bracket as shown using M6 hardware. 	
IPF IVAC 262	 76. Fit number plate located as shown using M6 hardware. <i>Note: ARB combination bull bar shown</i> 	

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PREPARATION OF BAR



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PREPARATION OF BAR

PREPARATION OF BAR		
	 81. Fit panel to top face on bull bar using 2 x M6 dome head stainless steel screws, flange nuts and stainless steel flat washers. NOTE : The stainless steel flat washers are to be sandwiched between panel and top face of bull bar to stop the panel pulling down to form depression around screw heads. 	
	 82. Support bull bar on lift device if available or with the help of one or more assistants lift the bull bar into position on the mount brackets. Note: ARB combination bull bar shown 	
15mm	 83. Bolt up bull bar to mount brackets using M10 SEMS and flange nuts but do not tighten. 84. Adjust position of bull bar so that there is an even 15mm clearance to the underside of the fender. 85. Tighten up M10 SEMS and flange nuts 	
	 86. Drill pinning holes using Dia 10.5 drill through existing holes in mount bracket lower flange area. 87. Insert M10 SEMS and flange nuts and do up tight. Image: Image: Image:	

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FIT BAR	TO VEHICLE
	88. Tuck fender liner into inside rear of wing flange.
	 89. Drill holes in fender liner using Dia 7.0 holes in wing return flanges as a guide and fasten fender line with 4 x M6 black bolts, washers and flange nuts. Image Nuts. Image Warning: Drilling operations can result in flying debris, safety glasses should be worn.
	 90. Drill hole in fender liner and cross beam as shown and secure liner with M6 black bolts, washers and flange nuts. Image: The second s
	91. Carefully, using a sharp knife or hacksaw trim off the fender liner co-incidental with the lower edge of the cross beam.

FIT BAR TO VEHICLE

FIT BAR TO VEHICLE	
Dulux	92. Using a black spray pack, paint the exposed color coded area of the cross beam so it does not show.
	 93. Refit grille, loading vertically, noting that there are pins on the lower section, which align with holes in the top face of the bull bar. 94. Refit stone tray removed at step 1 95. Check that the indicators are not rubbing on the cut edge of the bumper, if so, locally trim the bumper edge.
Attach tube inside wing	 If fitting Top Tube 96. Attach the tube to the bar by pushing through the holes in the buffers, fix using two M12 x 1.75 x 40mm bolts, ½" flat and spring washers.
	97. Remove indicators from cartons and then remove screws and speed nuts from each light. These fasteners are not to be reused – new screws are supplied in the fitting kit

FIT BAR TO VEHICLE



NOTE:

- Connect wiring to lights and winch. Refer to winch manufacturers installation instructions
- Check operation of all lights.
- Check winch operation



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