



# FITTING INSTRUCTIONS

Part Number: 3715010, 3715020, 3715030

Product Description: 200 SERIES LANDCRUISER ROOF CAGE MOUNTING RAIL KITS

Suited to vehicle/s: 200 SERIES LAND CRUISER WAGONS

## WARNING

### PLEASE NOTE THE FOLLOWING:

- ◆ This product must be installed exactly as per these instructions using only the hardware supplied.
- ◆ Do not use this product for any vehicle make or model, other than those specified by ARB.
- ◆ 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 Canauba based polish on all exposed surfaces. It is recommended that this be 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:

10mm ring spanner or socket	4mm hex key
6mm ball end Allen key (supplied)	'L' shaped nut plate insertion tool (supplied)
Non Acetic sealant (optional)	

### 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 lb/ft
M6	9Nm	7lbft
M8	22Nm	16lbft
M10	44Nm	32lbft
M12	77Nm	57lbft

**PARTS LISTING 2200 (Kit No 6172328)**

APPLICATION.	PART NO.	QTY	DESCRIPTION
MOUNTING BRACKETS TO ROOF	3757606L	1	ROOF CAGE MOUNT BRACKET LH
	3757606R	1	ROOF CAGE MOUNT BRACKET RH
	6151184	16	M8 X 1.25 X 30MM SOCKET HEAD CAP
	4581081	16	M8 FLAT WASHER STAINLESS STEEL
	5846403	8	RUBBER PACKER
	6151246	1	ALLEN KEY M6 BALL TYPE
ROOF CAGE TO MOUNTING BRACKETS	6151184	12	M8 X 1.25 X 30MM SOCKET HEAD CAP
	4581081	12	M8 FLAT WASHER STAINLESS STEEL
	4581094	12	M8 SPRING WASHER S/STEEL
	3193522	6	BOLT PLATE ASSEMBLY
	3193757	6	SUPPORT PLATE
AIR DEFLECTOR MOUNTING	3194158	1	TOOL NUT PLATE INSERTION
	6522692	1	DEFLECTOR 2200mm ROOF CAGE
	6151256	5	SCREW M6 x 16 STAINLESS STEEL
	6151261	5	U-NUT M6
	4581072	5	WASHER FLAT M6

**PARTS LISTING 1850 (Kit No 6172329)**

APPLICATION.	PART NO.	QTY	DESCRIPTION
MOUNTING BRACKETS TO ROOF	3757614L	1	ROOF CAGE MOUNT BRACKET LH
	3757614R	1	ROOF CAGE MOUNT BRACKET RH
	6151184	12	M8 X 1.25 X 30MM SOCKET HEAD CAP
	4581081	12	M8 FLAT WASHER STAINLESS STEEL
	5846403	6	RUBBER PACKER
	6151246	1	ALLEN KEY M6 BALL TYPE
ROOF CAGE TO MOUNTING BRACKETS	6151184	12	M8 X 1.25 X 30MM SOCKET HEAD CAP
	4581081	12	M8 FLAT WASHER STAINLESS STEEL
	4581094	12	M8 SPRING WASHER S/STEEL
	3193522	6	BOLT PLATE ASSEMBLY
	3193757	6	SUPPORT PLATE
	3194158	1	TOOL NUT PLATE INSERTION

## PARTS LISTING 1100 (Kit No 6172330)

APPLICATION.	PART NO.	QTY	DESCRIPTION
MOUNTING BRACKETS TO ROOF	3757615L	1	ROOF CAGE MOUNT BRACKET LH
	3757615R	1	ROOF CAGE MOUNT BRACKET RH
	6151184	8	M8 X 1.25 X 30MM SOCKET HEAD CAP
	4581081	8	M8 FLAT WASHER STAINLESS STEEL
	5846403	4	RUBBER PACKER
	6151246	1	ALLEN KEY M6 BALL TYPE
ROOF CAGE TO MOUNTING BRACKETS	6151184	8	M8 X 1.25 X 30MM SOCKET HEAD CAP
	4581081	8	M8 FLAT WASHER STAINLESS STEEL
	4581094	8	M8 SPRING WASHER S/STEEL
	3193522	4	BOLT PLATE ASSEMBLY
	3193757	6	SUPPORT PLATE
	3194158	1	TOOL NUT PLATE INSERTION

## Max load SAFETY

Your ARB Roof Rack has a maximum carrying capacity of 100kg. This load should not be exceeded and all loads must be tied down securely. If you have a cage with mesh fitted, secure the load to the main framing of the cage as well as the mesh.

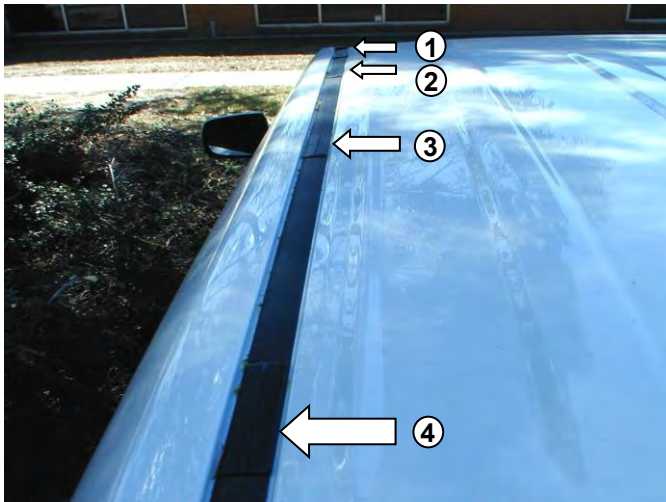
It is important to follow the listed usage instructions;

- a) The vehicle owner's manual should be consulted prior to loading the roof rack as the manufacturer's recommended maximum load for the vehicle's roof may be less than the maximum load specified for the roof rack.
- b) Load must be evenly distributed and adequately secured.
- c) Any weight carried on the roof of the vehicle will adversely affect its handling, particularly in cornering or in a cross-wind; the vehicle should therefore be driven with increased discretion.
- d) Regularly check the tightness of the securing clamps and the security of the load.
- e) Attention is directed to statutory requirements regarding maximum permissible projections from vehicles.

All bolts should be checked prior to touring to ensure the rack is fastened correctly.

***CAUTION: Excess downward or torsional force on the fixing brackets located within the roof can result in the brackets breaking away from the roof.***

## PREPARATION – REMOVAL OF CHANNEL COVERS OR ROOF BARS

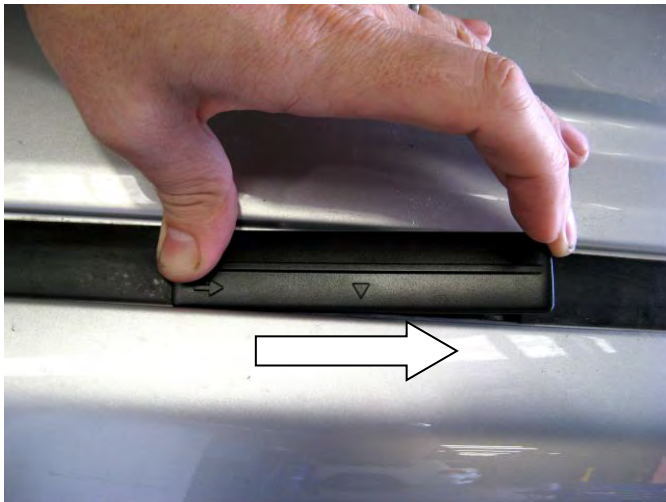


1. You will first need to remove the plastic covers in the vehicles roof channels. The number of covers removed will depend on the roof cage purchased.

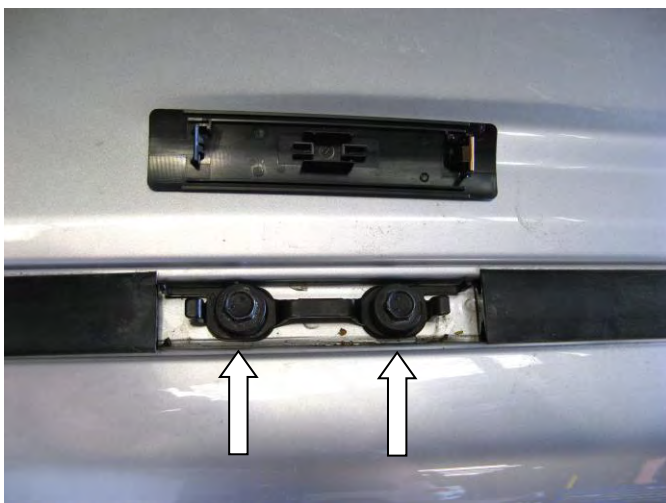
For 2200 roof cages remove all 4.

For 1850 roof cages remove 2, 3, and 4.

For 1100 roof cages remove 3 and 4.



2. To remove the plastic covers push in the direction of the arrows and then lift the forward end up.



3. Having removed the plastic covers, using a 10mm socket, remove all the brackets from the roof. Keep the bolts for use later.

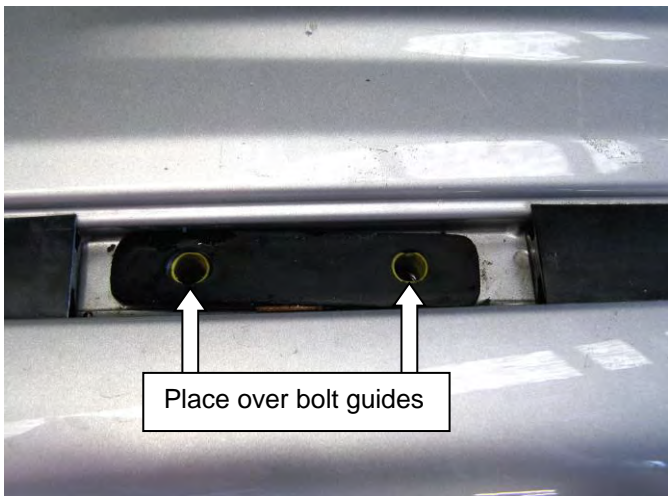
**CAUTION: Loosen both bolts first before removing either one completely. Excess downward or torsional force on the bracket located within the roof can result in the bracket breaking away from the roof.**

## PREPARATION – REMOVAL OF CHANNEL COVERS OR ROOF BARS



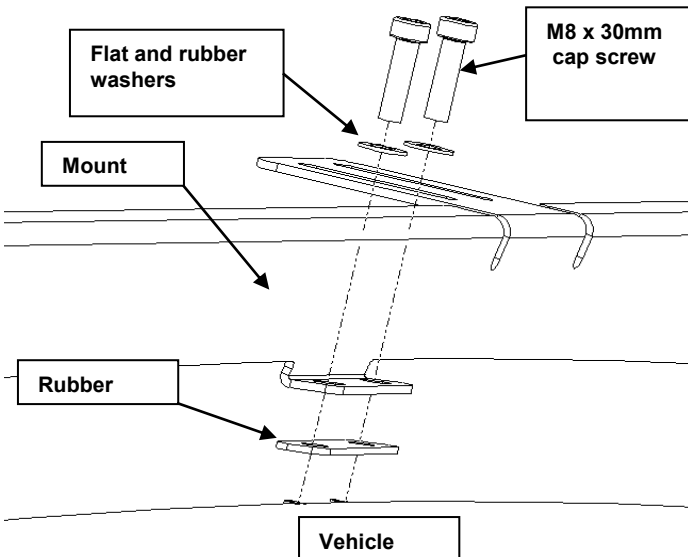
4. Remove the cap and rubber grommet from the bolts removed from the roof.
5. For fitment of the mounting brackets to the roof use the M8 x 30mm socket head cap screws, M8 flat washers and the cap and rubber grommet removed from the factory bolts.

## FITTING RAILS



6. Thoroughly clean the channel where the seal is to lay
7. Place the rubber seals in position as shown.

**NOTE: You may use some non acetic sealant on the contact faces of this seal to further enhance sealing**



8. Assembly details.

## FITTING RAILS



9. Position the mounting rail carefully on the roof and fix in place using the M8 x 30mm bolts prepared earlier.

**CAUTION:** Start both bolts first before doing either one up completely. Excess downward or torsional force on the bracket located within the roof can result in the bracket breaking away from the roof.

**Do Not Tighten yet.**



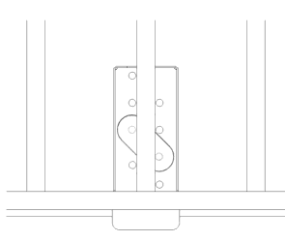
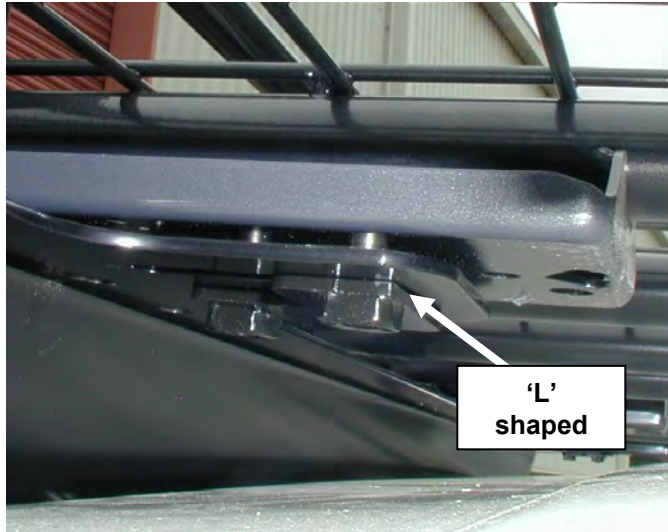
10. When all bolts have been fitted centralise the mounting rails and **fully tighten the bolts to specified**

## FITTING ROOF RACK

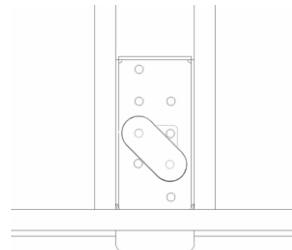


11. With assistance, carefully place the roof cage on the vehicle so that all mounting holes are aligned.

## FITTING ROOF RACK



Top View Steel



Top View Alurack

12. To aid in the process of fitting the 'L' shaped nut plate an inserting tool is provided in the fitting kit.

13. Bend the handle of the tool so it will allow the nut plate sitting on the tool located as shown to fit through the access point in the roof rack and allow the nut plate to be in the correct position for bolting.

14. **If fitting a steel cage;** fix the roof rack to the mounting rails by first sliding the support plate between the cross bar tube and the bolt bracket, then hold the bolt plate underneath the leg (using the supplied tool if required) and pass the M8 x 30mm SHCS with washers down through the support plate, the cage and the slots in the mounting rails. **Do not tighten cap screws.**

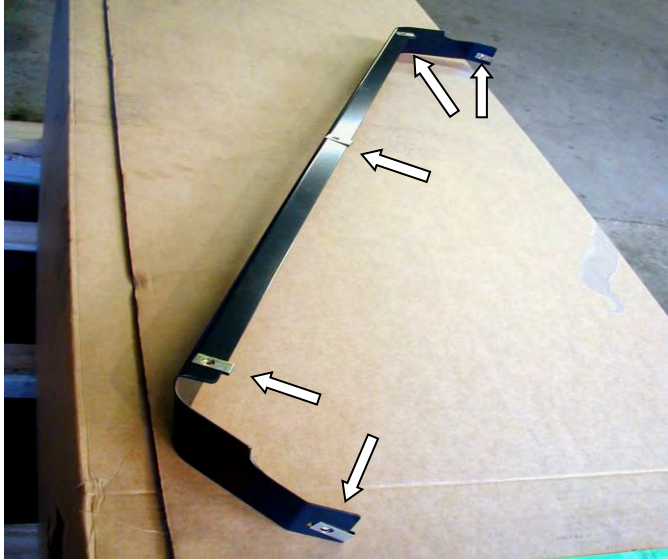
15. **If fitting an Alurack;** first place the support plate on the bolt bracket then fix to the mounting rails as above. **Do not tighten cap screws.**



16. Adjust the positioning of the roof rack, when satisfied **tighten all the bolts to specified torque**



## WIND DEFLECTOR FITTMENT FOR 2200 CAGE ONLY



1. Fit the U-Nuts to the wind deflector so that the threaded side is to the inside of the deflector.



2. Attach the wind deflector to the roof cage along the top using the M6 x 16mm dome head cap screws and M6 flat washers.



3. Attach the deflector to the mounting brackets using the remaining M6 cap screws and flat washers. **Tighten all bolts to specified torque.**