



FITTING INSTRUCTIONS

Part Number: **4412470**
Product **FRONT RAIL / REAR STEP**
Description:
Suited to **76 SERIES TOYOTA LAND CRUISER WAGON**
vehicle/s:

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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GENERAL CARE AND MAINTENANCE

By choosing an ARB Side Step and Rail, you have bought a product that is one of the most sought after 4WD products in the world. This product is a properly engineered, reliable, quality accessory that represents excellent value. To keep your accessory 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 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 product is carried out, making sure that all bolts and other components are torqued to the correct specification. 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	TORQUE WRENCH
POWER DRILL	NON ACETIC CURE SILICONE
8MM DRILL BIT	AXLE STANDS (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 lbft
M6	9Nm	7lbft
M8	22Nm	16lbft
M10	44Nm	32lbft
M10 fine	62Nm	45lbft
M12	77Nm	57lbft

PARTS LISTING

APPLICATION.	PART NO.	QTY	DESCRIPTION
RAILS AND STEPS	6562572R	1	FRONT RAIL ASSEMBLY RHS
	6562572L	1	FRONT RAIL ASSEMBLY LHS
	6562764R	1	STEP ASSY RHS LC76 WAGON
	6562764L	1	STEP ASSY LHS LC76 WAGON
STEPS TO VEHICLE	6151599	2	U BOLT ASSY ZINC M12 X 155W X 117L WITH SQUARE COLLAR PLATES
	3194368	2	PACKER PLATE FOR U BOLT
	4584335	4	WASHER FLAT X 12MM
	271BLK	2	SIDE RAIL RUBBER PLUG
	6151574	4	NUT NYLOC M12
	5848453	4	PACKER FRONT SUPPORT LC70
RAILS TO STEP	6151021	4	BOLT M8 X 20MM
	6151132	4	NUT FLANGE M8
	4581044	4	WASHER FLAT M8
RAILS TO BULLBAR	6582433	4	RETAINER SIDE RAIL CLAMP
	6151085	6	BOLT M8 X 70MM (BLACK)
	6151212	6	NUT M8 NYLOC
	4581045	6	WASHER FLAT M8
	271 BLK	2	SIDE RAIL RUBBER PLUG
CHECKER PLATE TO STEPS	3199947L	1	CHECKER PLATE LHS
	3199947R	1	CHECKER PALTE RHS
	6151200	12	BOLT M6 CUP SQUARE
	6151128	12	NUT FLANGE M6
	4581084	12	WASHER PANEL

FITTING PROCEDURE



1. Remove factory fitted side steps if fitted to vehicle. Place a jack under gear box cross member for support whilst removing the four bolts on each side.

(ONLY REMOVE THE FOUR BOLTS AT ONE SIDE AT A TIME)

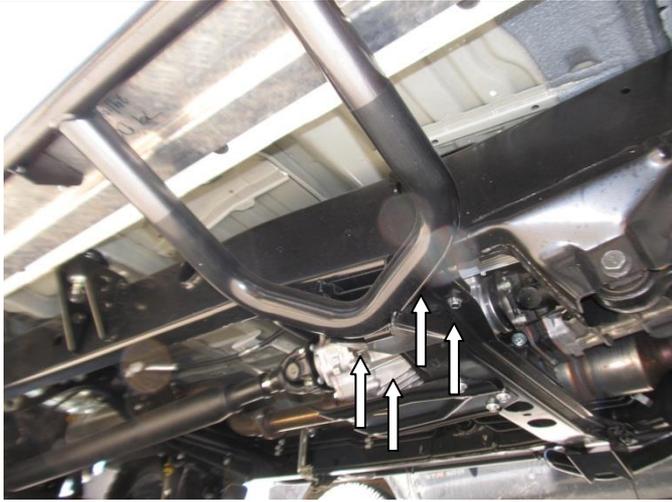


2. Fit side rail U Bolt in up against chassis making sure it is fitted as per the picture shown, going **over the fuel lines and under the brake lines**.



3. Hold up the side rail in place and line up the holes on the support arm bracket with the threads on the U bolt. Fit two M12 Nyloc nuts and flat washers. Do not tighten

FITTING PROCEDURE



4. Refit four M10 bolts (removed in step 1) to front cross member and tighten to torque specifications.

NOTE: Ensure you fit the packer between the bolts and mount.



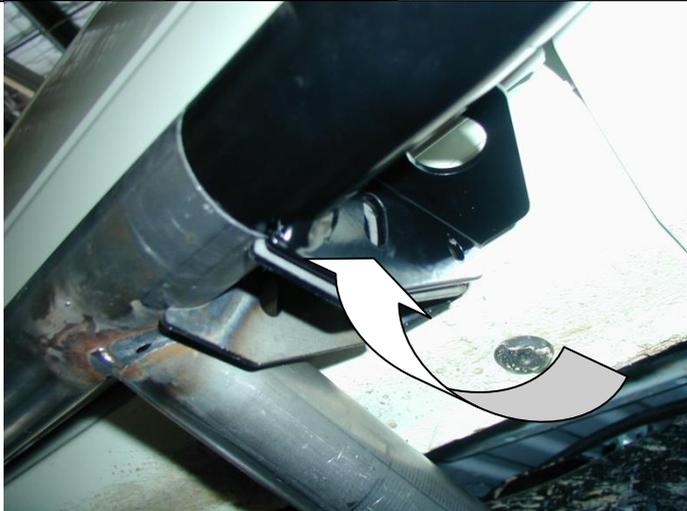
 M10 - 62Nm



5. Before tightening rear mount, adjust for parallel level with vehicle sill.
6. Align U Bolt such that top and bottom clearances to chassis rails are symmetrical. Alternate tensioning of the two M12 Nyloc nuts half a turn each until specified torque is achieved, to obtain symmetrical loading and prevent damage to chassis.

 M12 - 44Nm

Note: Tighten u bolt to 44Nm only



7. When rear rail has been fitted to vehicle, fit rear of front rail to front of rear rail then temporarily fit M8 hardware to front rail bracket.

Fit M8 hardware to this hole and tighten securely



8. Test fit front rails to check length. Due to variation in bullbar fitting positions it may be necessary to cut back the front section of the front rails. There should be a gap of approx 6mm between the end of the rail and the outer frame of the bull bar where it will mount.

Note: If you cut the rails you must apply either paint or a rust preventative to the bare metal.

9. Fit rubber plug (271 BLK) to the end of the front rail (bull bar end). Align front rail so rail is parallel to front guard of vehicle, then tighten clamp.



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



9. Using a 8mm drill bit, drill through where clamps are attached around bar first. Touch up with paint to stop corrosion.
10. After drilling front hole, secure using M8 hardware supplied in bolt kit.

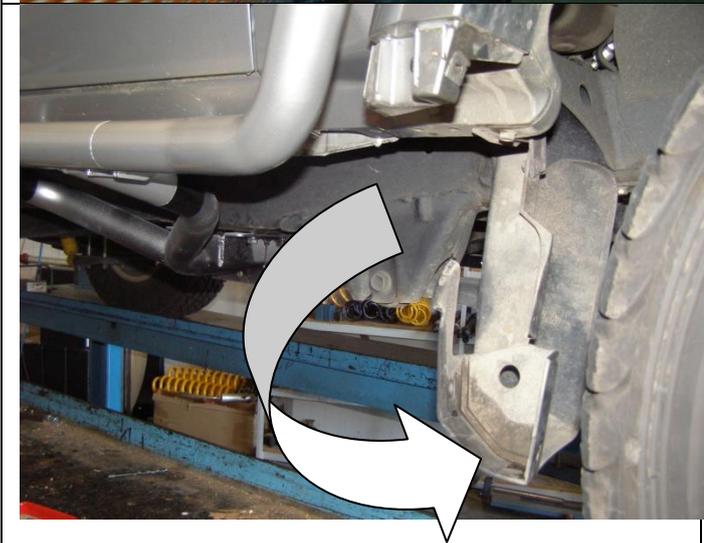


11. When drilling the two rear holes in the clamps, place a piece of wood in between rail and the side of vehicle to protect vehicle from being damaged.





12. After drilling holes, secure using 8mm hardware supplied in bolt kit.
13. Tighten all bolts to torque specifications.



14. If vehicle is fitted with flares, remove 2 screws from mud flaps and swing out of way to give access for drilling.



15. Lastly, using a 8mm drill bit, drill through front rail bracket hole into rear rail bracket. Touch up with paint to prevent corrosion.

NOTE: This hole is used to drill and pin using M8 hardware after all other bolts are fitted and tightened. As this is a pinning plate the top 'flats' of this bracket and the checker top mount do not have to be parallel and often will be on different angles to one and other.





16. Secure using M8 hardware supplied in bolt kit.
17. When front rail is fitted to rear step, refit mud flap to vehicle.

 M8 - 22Nm



18. Test fit checker top and take note of where checker top comes into contact with both rear and front rail. Remove checker top and apply a bead of silicon to rail pipe where ever the checker top will come into contact with the pipe.



19. Secure plate to rail using domed headed 6mm bolts, flat washers and nuts.
20. Before tighten bolts, adjust checker plate on step then tighten all bolts to torque specifications.
21. Clean up any silicon if it has squeezed out between plate and rail.



22. Lastly, clamp checker plate to front rail and allow silicon to set before removing clamp.

FITTED PRODUCT

