

Part Number: Fitting Kit No: 3420210

6173022 (suits all year models) Available Lower Panel Supplementary kits: 3520010 06-09 FJ Cruiser 3520020 2010 ON FJ Cruiser 3520030 Field fix kit is required for Australian delivery vehicles in addition to the main bar kit. ARB WINCH BULL BAR TOYOTA FJ CRUISER 2006 ON

Product Description: Vehicle/s:

<u>WARNING</u>

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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FITTING REQUIREMENTS

REQUIRED TOOLS FOR FITMENT OF PRODUCT:

Basic Tool Kit	External Circlip pliers
17mm Tube Spanner	Power Drill 13mm capacity
7mm, 10mm and 13mm drill bits	Cold chisel

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

FASTENER TORQUE SETTINGS:

OPTIONAL LIGHT SETS TO SUIT THIS PRODUCT:

- ARB 6821201 Fog Light Kit Suit 3163015
- Up to IPF 900 SERIES FOG OR DRIVING LIGHT SETS

Fitting Kit 6172343 PARTS LISTING			
APPLICATION.	PART NO.	QTY	DESCRIPTION
	3756848	1	Bracket Mount Assembly
	3756851R	1	Bracket Mount Brace RHS
	3756851L	1	Bracket Mount Brace LHS
	3193741	2	Captive Nut Plate
	6151306	2	Nut Cage M12 x 1.75
Mount Assembly To Chassis	6151255	8	Bolt M12 x 1.75 x 40mm
	6151189	6	Nut M12 x 1.75
	6151094	2	Bolt M12 x 1.25 x 30mm
	4581049	18	Washer Flat M12
	4581050	10	Washer Spring M12
	5846401	4	Spacer 8mm
	6151357	10	SEMS Bolt M10 x 1.5 x 30mm
Bull Bar To Impact Absorber	4581040	10	Washer Flat M10 x 2mm
	6151026	10	Nut M10 x 1.5
	3163015	1	Combination Light Surround Kit
Indicators To Bull Bar	6821152	2	Turn signal / clearance light loom
	6821151L	1	Turn Signal / Clearance Light
	6821151R	1	Turn Signal / Clearance Light
	EG50	1	Rubber Grommet
	3756499	1	Bracket Control Box
	6151021	2	Bolt M8 x 20mm
Winch To Bull Bar	4581044	2	Washer Flat M8
	6151132	2	Nut Flange M8
	BLB560	2	Cable Black 560mm
	4581040	4	Washer Flat 3/8" x 1"
	6151074	2	Bolt 1 ³ / ₄ " x 3/8" UNC
Number Plate To Bull Bar	6821189	2	Grommet Nylon Nut
Nulliber Flate TO Bull Bar	6151384 6781408	2 1	Screw Pan Hd Phil 5x16mm
			Tape Double sided
	6821132	2	Rubber Grommet 3/8" ID
Miscellaneous	180302 3162152	8 2	Cable Ties Plastic Plug 16mm DIA
	3756857	1	Bracket Bracing Lower Grille
	6542088	1	Stone Tray 06-09
Supplementary Kit:	6151300	4	Nut Cage 6mm
3520010 06-09 Models:	6151213	4	Bolt M6 x 20mm BZ
Stone Tray	4584310	4	Washer Flat M6 BZ
Stone may	4581287	4	Washer Spring M6 BZ
	6542111	1	Stone Tray 2010 ON
	6522795 R&L	1 pr	Wing under panels
	6151300	14	Nut Cage 6mm
	6151213	16	Bolt M6 x 20mm BZ
Supplementary Kit:	4584310	6	Washer Flat M6 THK BZ
	4581082	10	Washer Flat M6 BZ
3520020 2010 ON Models:	4581287	16	Washer Spring M6 BZ
Stone Tray and Wing Under Panels	6151132	2	Nut Flange 8mm
	6151234	2	Bolt M8 x 25mm BZ
	4581307	4	Washer Flat Panel M8 BZ
	4581047	2	Washer Spring M8 BZ
	3787825	1	Template drilling mount holes

FITTING PROCEDURE		
	1.	Remove protective plate if fitted
	2.	Remove front fasteners only from stone tray. Retain fasteners for reuse.
	3.	Remove lower bumper fixing screws and screws in wheel arch area
	4.	Remove grille. Screws are located in tabs at top of grille. Once these are removed carefully release clips some are located along the inside lower section.

FITTING PROCEDURE		
	5. Remove plastic rivets along top of bumper	
	 Remove screw then remove front bumper cover from vehicle. NOTE: Prise the rear lip of the bumper off the retaining spigot where screw was located (as shown with arrow) then pull bar wing outward. 	
	7. Remove front bumper reinforcing bar. NOTE: Retain the 8 x flange nuts removed for fitment of the bull bar chassis mount.	
	 8. Using the 13mm drill bit and power drill, drill out the M8 captive nut located at the outboard side of the chassis as shown, on both sides of the vehicle. Warning: Drilling operations can result in flying metal debris, safety glasses should be worn. 	

FITTING PROCEDURE		
	 9. Check that the nut body is completely removed, if it is not cleared, using a cold chisel and hammer chisel the remainder off. Warning: Hammering and chiselling operations can result in flying metal debris, safety glasses should be worn. 	
	10. Fit an M12 cage nut to each of the captive nut plates 3193741.	
Use a M12 flat washer as a spacer between chassis and bracket.	11. Fit the chassis mount braces to the vehicle using the M12 x 30mm fine pitched bolt, M12 spring and flat washers supplied in the lower hole. Use an M12 flat washer as a spacer between the brace and the chassis at the upper hole and fix with an M12 x 40mm bolt M12 spring and flat washers and M12 x 1.75 nut. <i>Do not tighten the bolts.</i>	
	12. Insert the captive nut assembly through the front of the chassis and line it up with the hole at the end of the mount brace. Fix in place with the M12 x 1.75 x 40mm bolt, M12 flat and spring washers. Break off the end of the captive nut plate. Do not tighten yet.	

FITTING PROCEDURE	
Position brace so spacer won't protrude from the chassis	 Hold the 8mm spacer against the chassis mount brace forward facing surface and position the brace so that the spacers sit just below the surface of the chassis front face. Tighten the bolts.
	 If fitting the bar to an Australian delivered vehicle, please refer now to fitting instructions #3787967 to relocate the power steering lines. If not proceed to the next step.
	15. Fit the chassis mount bracket to the chassis using the original flange nuts removed with the bumper reinforcing bar. Centre the chassis mount bracket and tighten.
	CAUTION: When fitting the Chassis mounting bracket carefully bend the air-conditioning pipe out of the way.
	 16. If required, carefully bend A/C piping clear of mount bracket assembly as shown, with <u>a</u> <u>minimum clearance of 20mm (3/4").</u> CAUTION: Piping must not rub on sharp edges, secure with cable tie and protective sheath if required.
	17. Fix the chassis mount bracket to the chassis mount brace using M12 x 40mm bolts, M12 spring and flat washers, the 8mm spacers and M12 x 1.75 nuts. Tighten bolts





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FITTING PROCEDURE		
	31. Remove original grille brace member. Retain screws.	
	32. Fit supplied replacement brace and secure with original fasteners	
	 33. With the help of an assistant position the bull bar on the chassis bracket and fix with six M10 x 30mm bolts, M10 spring and flat washers. CAUTION: Nip up bolts, but do not tighten them yet. 	
	34. Position the bull bar so that there is an even gap of approximately 5mm from the top face of the bar to the underside of the body edge. Then tighten all the bolts.	

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 35. With the bull bar in position drill Dia10mm pinning holes, one though pilot hole in mount bracket and one through hole in upright for both sides of mounts. Warning: Drilling operations can result in flying metal debris, safety glasses should be worn. 36. Fix in place using two M10 x 30mm SEMS bolts, M10 Flat washers and M10 x 1.5 nuts per side.
 37. Assemble and install combination light surrounds (P# 3163015) as per instructions # 3786421 supplied with surround kit. Note: Optional fog lamps can be installed at this point as per fitting instruction #. 3783315 supplied with fog lamp kit # 6821201. 38. Wire the combination lamp to the vehicles indicator and clearance lamps. Caution: Cable tie all cables together and keep all cables clear of sharp edges and moving parts.
 Wire up lights using loom extensions supplied in fitting kit.
Wiring loom detail for flasher and clearance lamps supplied standard with bullbar;
Red Clearance lamp
Green Flasher lamp
Black Ground
Wiring loom detail on FJ Cruiser;
LHS
Blue Flasher
Green Run
Wh/Blk Ground
RHS
Pink Flasher
Green Run
Wh/Blk Ground
NOTE: Other wiring detail supplied with
accessories.





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- 60. Feed a cable tie through holes and secure.
- 61. The painted color coded area of vehicle visible in the region around the trimmed fender liner may be spray painted black to hide this area.

NOTES: When finished make sure all bolts are tightened and that all wiring is clear of hot, sharp and moving parts.

Also supplied in the kit are two 3/8" rubber grommets and two 16mm plugs. The rubber grommets are for the two holes in the top pan if lights are being fitted. The two plastic plugs are for the holes in the top surface of the wings if no CB aerials are going to be connected.

CAUTION: If winch fitted, check that the air conditioner piping is clear of the winch by at least 20mm (3/4"). Fit a sheath around tubing and secure with cable tie to prevent chaffing which may lead to piping damage.

