

Part Number: 3420100

ARB WINCH BULL BAR

Description: Suited to vehicle/s:

Product

# **TOYOTA FJ CRUISER**

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

#### FASTENER TORQUE SETTINGS:

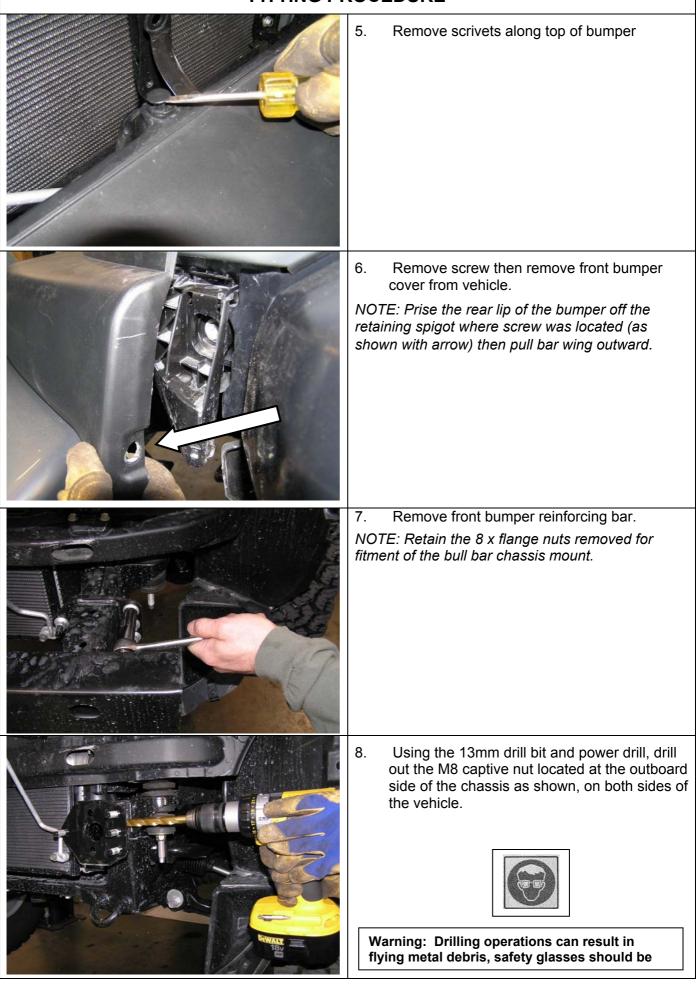
#### **OPTIONAL LIGHT SETS TO SUIT THIS PRODUCT:**

- ARB P#9249FCK 100mm 55WATT FOG LAMP KIT
- Up to IPF 900 SERIES FOG OR DRIVING LIGHT SETS

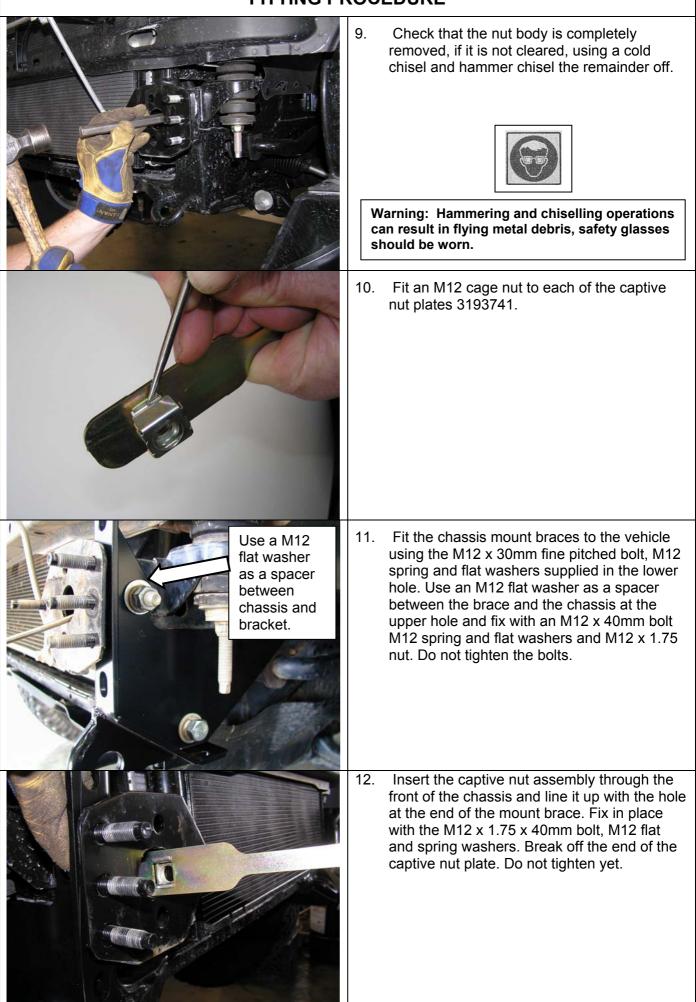
Fitting Kit 6172097 PARTS LISTING			
APPLICATION.	PART NO.	QTY	DESCRIPTION
	3756848	1	Bracket Mount Assembly
	3756851R	1	Bracket Mount Brace RHS
	3756851L	1	Bracket Mount Brace LHS
	3193741	2	Captive Nut Plate
	6151306	2	Nut Cage M12 x 1.75
Mount Assembly To Chassis	6151255	8	Bolt M12 x 1.75 x 40mm
	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
	6542088	1	Stone Tray
	6151300	4	Nut Cage 6mm
Stone Tray to Bull Bar	6151213	4	Bolt M6 x 20mm
-	4581084	4	Washer Flat M6
	4581287	4	Washer Spring M6
	3162468	2	Insert Fog Light Surround
	6151317	8	Screw 8-18 x 5/8 Pan Head
	3162467R	1	Surround Fog & Indicator RHS
	3162467L	1	Surround Fog & Indicator LHS
	6582425R	1	Clamp Indicator & Fog Surround
Indicators To Bull Bar	6582425L	1	Clamp Indicator & Fog Surround
	6821151R	1	Indicator RHS
	6821151L	1	Indicator LHS
	6151128	6	Nut Flange M6
	6821152	2	Turn signal / clearance light loom
	EG50	1	Rubber Grommet
	3756499	1	Bracket Control Box
	6151021	2	Bolt M8 x 20mm
	4581044	2	Washer Flat M8
Winch To Bull Bar	6151132	2	Nut Flange M8
	BLB560	2	Cable Black 560mm
	4581040	4	Washer Flat 3/8" x 1"
	6151074	2	Bolt 1 ¾" x 3/8" UNC
	6821189	2	Grommet Nylon Nut
Number Plate To Bull Bar	6151384	2	Screw Pan Hd Phil 5x16mm
	6781408	1	Tape Double sided
	6821132	2	Rubber Grommet 3/8" ID
	180302	8	Cable Ties
Miscellaneous	3162152	2	Plastic Plug 16mm DIA
	3756857	1	Bracket Bracing Lower Grille
	5750657		

## EITTING BROCEDURE

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.

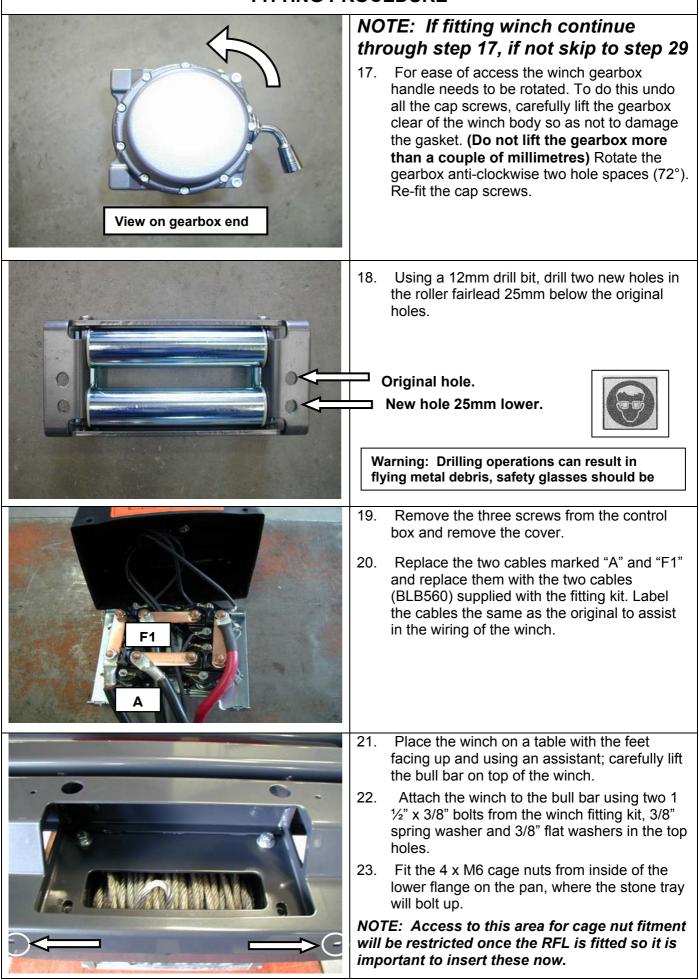


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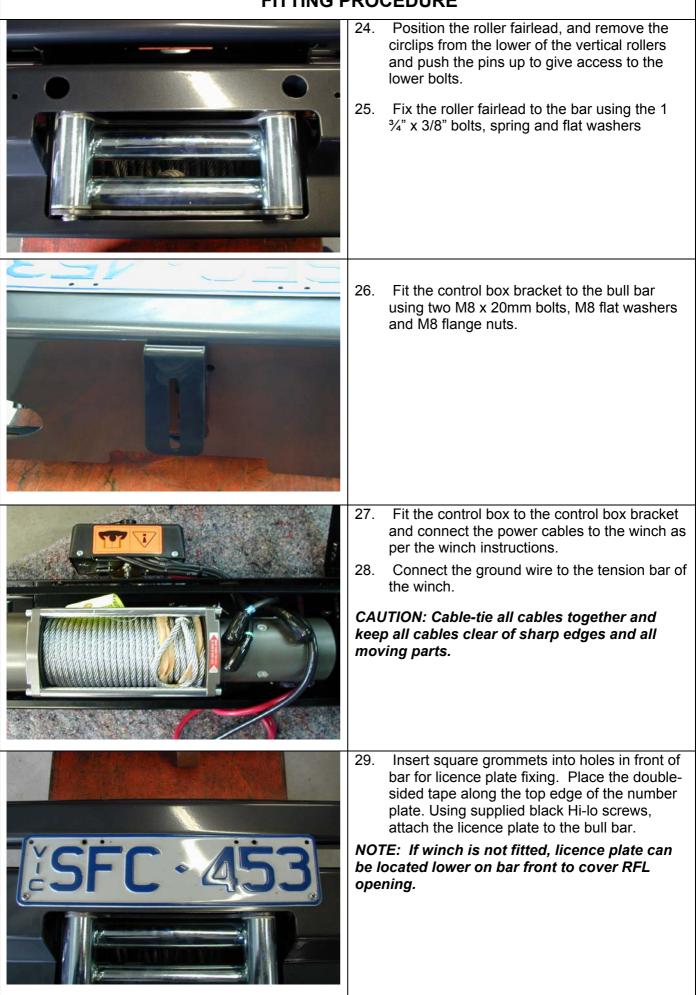
FITTING PROCEDURE	
Position brace so spacer won't protrude from the chassis	13. Hold the 8mm spacer against the chassis mount brace forward facing surface and position the brace so that the spacers sit just below the surface of the chassis front face. Tighten the bolts.
	14. Fit the chassis mount bracket 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.
	15. If required, carefully bend piping clear of mount bracket assembly, with <u>a minimum</u> clearance of 20mm (3/4").
	CAUTION: Piping must not rub on sharp edges, secure with cable tie and protective sheath if required.
	16. 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

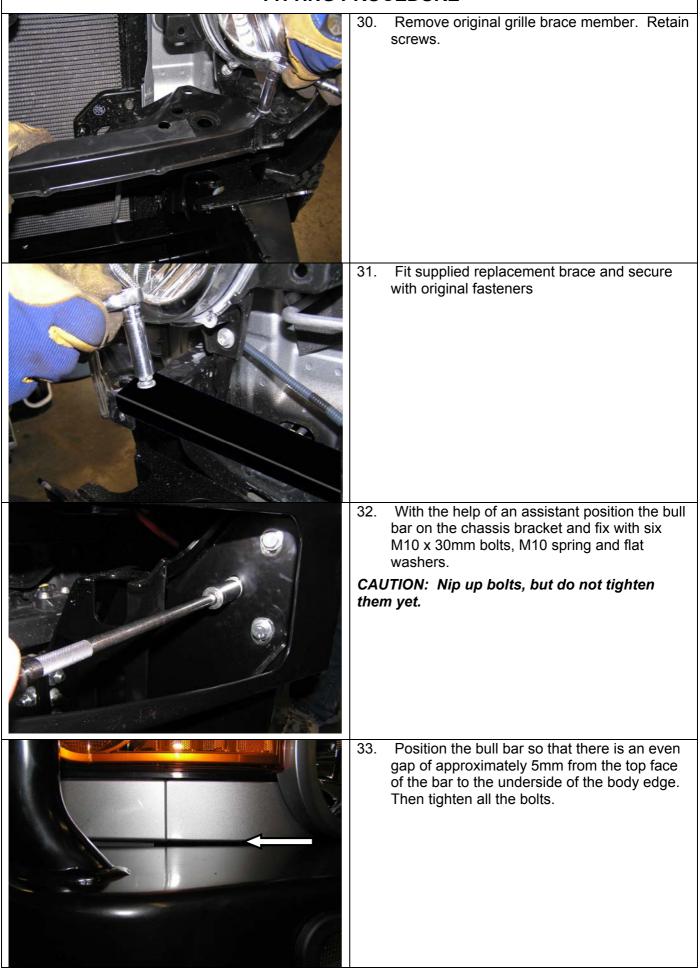


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FITTING	RUCEDURE
	<ul> <li>34. With the bull bar in position drill Dia10mm pinning holes, one though pilot hole in mount bracket and one through hole in upright for both sides of mounts.</li> <li>Warning: Drilling operations can result in flying metal debris, safety glasses should be</li> <li>35. Fix in place using two M10 x 30mm SEMS bolts, M10 Flat washers and M10 x 1.5 nuts per side.</li> </ul>
	36. Fit the bull bar stone tray by sliding the tray under the front of the vehicles original stone tray and fixing in place with the original bolts from the vehicles stone tray.
	37. Fit the front of the stone tray to the bull bar with four M6 x 20mm bolts, M6 large panel washers and M6 spring washers.
	38. Trim fender liner horizontally with sharp knife approximately 30mm (1 ¼") below hole as shown.
	39. Trim corner as shown.



#### FITTED PRODUCT

FITTED PRODUCT	
	45. Place the clamp brackets for light surrounds inside the wing opening as shown.
	HINT: Angle the bracket first then put it into the light surround opening in the wing, tilt it to the correct angle and position centrally once inside wing.
	46. Fit light surround assembly (NOTE: Fog lamps 4249FCK optional extra). Fasten in position with 3 x M6 flange nuts on studs at rear of light assembly inside wing.
	47. 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.

# 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.

