

Part Number: 3415150 F/Kit 6173369

# ARB DELUXE WINCH BULL BAR (suitable for up 12000lb winch)

Suited to vehicle/s:

Description:

Product

### **TOYOTA LANDCRUISER 200 SERIES 2012 ON**

- For vehicles fitted with front camera, order camera relocation kit 3515030.
- For vehicles equipped with 19W fog lamps 3500440 loom is required. Do not use factory fog light wiring.

## 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 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 8-25mm range	External Circlip pliers
Screwdrivers, Philips and Flat blade	Power Jigsaw with blade for plastic cutting
Short Body Power Drill 13mm (1/2") capacity	Dia 7.0mm (5/16") and 10.5mm (25/64") drill bits
Tin snips	Marking pen
Half round file	Soft Hammer
Metric hex key set	Loctite© 262 or equiv.
Wide masking tape	Stanley knife
Small Spirit Level	Tape Measure & 2 x 300mm rulers
	Paint black fast drying

#### 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:

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

- ◆ FOG LAMP SET P# 6821201, P#3500440 LOOM KIT TO SUIT ALL MODELS
- UP TO IPF 900 SERIES FOG OR DRIVING LIGHT SETS
- IPF 840 FYS FOG LIGHTS CAN BE FITTED TO LOWER PAN AREA

PARTS LISTING				
APPLICATION.	PART NO.	QTY	DESCRIPTION	
Mount Brackets To Chassis	3757602R	1	Bracket Mount RHS	
	3757602L	1	Bracket Mount LHS	
	6151428	2	Flange Nut M12 x 1.75	
	6151429	2	Chassis Stud M12 x 265 x 1.75	
	6151435	2	Nut Clevis	
	5846400	2	Packer M12 x 8mm	
Brace Assembly	4681274	1	Brace	
	6151357	7	SEMS Bolt M10 x 1.5 x 30mm	
	6151321	7	Nut Flanged M10 x 1.5	
Bull Bar To Mount Bracket Assy	6151357	4	SEMS Bolt M10 x 1.5 x 30mm	
	6151321	4	Nut Flanged M10 x 1.5	
	6151255	6	Bolt M12 x 1.75 x 40mm	
	6151189	6	Nut M12 x 1.75	
	4581049	12	Washer Flat M12	
	4581050	6	Washer Spring M12	
Stone Tray to Bull Bar	6522683 6151300 6151213 4581082 4581287 6151270 4721518	1 4 6 6 2 2	Stone Tray Nut Cage M6 Bolt M6 x 20mm Washer Flat M6 x 16 x 3 Washer Spring M6 Bolt M6 x 40 Spacer Tube 18mm	
Winch To Bull Bar	3756499 6151234 4581045 4581047 6151132 180302 EG50 6151074	1 2 2 2 2 8 2 2 2	Bracket Control Box Univ. Bolt M8 x 25 Washer Flat M8 BZ Washer Spring M8 BZ Nut M8 Flanged Cable Tie Grommet Dia 50mm Bolt 3/8 x 1 3/4	
Number Plate To Bull Bar	6821189	2	Grommet round	
	6151384	2	Screw self tapping pan head	
	6781408	1	Tape double sided	
Wing Inner Panels	6522884R	1	Panel Inner Wing RH	
	6522884L	10	Panel Inner Wing LH	
	6151300	10	Nut Caged M6	
	6151213	10	Bolt M6 x 20 Blk	
	4581082	10	Washer Flat M6 Blk	
	4581287	2	Washer Spring M6 Blk	
	6151234	2	Bolt M8	
	4581045	2	Washer Flat M8	
	4581047	2	Washer Spring M8	
	6151132	2	Nut M8 Flanged	
Buffers	3163018R	1	Buffer	
	3163018L	1	Buffer	
	6151128	12	Nut M6 Flanged	
Lights	3163015	1PR	Light Surround Set	
	6821151R	1	Indicator	
	6821151L	1	Indicator	
	6821152	2	Loom	
	180701	6	Scotch Locks	
	180302	6	Cable Ties	
Miscellaneous	6191019	2	Trim Pinch Weld	
	3788059	1	Template Bumper Cutting	
	3788060	1	Template Bumper Cutting	
	EG50	2	Grommet Dia 50mm	
	180302	5	Cable ties	
	6821257	1	Conduit 13mm x 850mm	
	6821254	1	Conduit 13mm x 670mm	
	3163074	2	Front Park Assist Sensor Blanking Plug	

	3759010	1	Bracket Camera Mount LC2100
OPTIONAL:	6151282	3	Nut Flange M5
	6151281	3	Screw M5 x 12
Camera Relocation Kit	6821271	1	Wiring Camera Loom Extension
	6151180	2	Bolt M6 x 1 x 20
(3515030)	6151042	2	Washer Spring M6
	6151046	2	Washer Flat M6
	180302	4	Cable Ties
VX and Sahara fog lamps	3500440	1	Auxiliary light wiring loom
(19W fog lamps)			

REMOVAL OF BUMPER		
INFRARE ASSA INFORME ASSA INFOR	1.	Remove number plate
	2.	Remove inner guard bumper retaining screws three per side using T30 Torx key
	3.	Remove lower trim panel sets each side which attach to bumper and engine protective plate area then set aside, they will not be reused.

REMOVAL OF BUMPER			
	4. When removing lower trim panels plastic nut located on each side w to be prized open with a small flat screwdriver to assist removal.	/ill need	
	5. Remove lower bumper retaining	screws.	
	<ol> <li>Remove plastic engine bay cover grille area and set aside. Prise of plastic plugs with small flat blade screwdriver or similar as shown.</li> </ol>	pen	
	<ol> <li>Remove retaining screws from to grille</li> <li>Pull upper RH and LH grill cornel release from upper clips</li> <li>Remove RH and LH splash guar located at the recovery hooks</li> </ol>	rs to	

MASKING BUMPER FOR TRIMMING		
	10. Apply wide masking tape along bumper as shown	
A construction of the cons	<ul> <li>11. Cut A3 paper templates along identified cutting line.</li> <li><i>NOTE: There is a scale on the sheet to confirm that the template is 1:1 scale, this is critical.</i></li> </ul>	
	12. Apply template 3788060 to outer corner of LHS bumper as shown aligning accurately to features such as the lower line of headlamp and end of bumper. Tape in position	
	<ul> <li>13. Now position template 3788059 by aligning inside edge coincident with number plate mount plate and the templates lower edge with the upper edge of the lower grille as shown. Mark around the template.</li> <li>14. Reverse templates and apply to RHS of bumper and follow same steps as LHS.</li> </ul>	



#### **Bumper Removal**





PREPARATION FOR MOUNT BRACKETS			
	<ul> <li>30. Remove foam absorber bar and set aside, this will not be reused</li> <li>31. Remove crash bar then beam mount brackets and set aside, retain only M10 flange nuts for reuse.</li> </ul>		
	32. Remove tow hooks and set aside, these will be reused.		
Mark line 30mm from central face,	33. Mark the lower section of the air scoop for the power steering radiator as shown. This is for trimming to clear the mount brackets.		
	34. Now mark along the lower bend as shown, now cut the shroud along the marked edges as shown		

## PREPARATION FOR MOUNT BRACKETS 35. Once the cut is complete it should look as displayed. 0 36. Now on the upper face of the power 15mm in from steering shroud mark and cut as shown edge Hint: You can do this on the vehicle as shown. 37. Mark out and trim the air deflector on the LHS of the vehicle using a Stanley knife or similar. 25mm from edge Hint: You can do this on the vehicle as shown. If fitting 12000lb winch only 38. Relieve or bend back the forward section of the vehicle sheet metal member as shown to clear winch tie rod. Bend back or cut away this whole front section from the line as shown





#### **PREPARATION OF BULL BAR**



#### PREPARATION OF BULL BAR



FITTING MOUNT BRACKETS			
	<ul><li>62. Insert clevis nut into rectangular hole in the inboard face of chassis, ensuring the threaded end is inserted first.</li><li>The nut when fitted correctly should fit square and locate into the chassis rail.</li></ul>		
	<ul> <li>63. Install the chassis stud by fitting 2 nuts to the end of the stud and tightening until thread bottoms out.</li> <li>64. Remove nuts and repeat for the LHS.</li> </ul>		
	04. Remove nuis and repeat for the End.		
	65. Loosely fit the mounting brackets to the chassis securing with the 8mm packers and flange nuts.		
	66. Secure using existing OE M10 flange nuts, <b>but do not do up tight.</b>		
	67. Tap the outer flange of the mount brackets until they are hard up against the tow hook mount area. Nip up the lowest outboard nut on each bracket. Brackets should be 935mm apart		

 Last Rev Date:
 05 Feb 2013
 Page 16 of 22
 Fitting instructions# 3788058

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#### FITTING BULL BAR TO VEHICLE



#### Last Rev Date: 05 Feb 2013 Page 17 of 22

#### Fitting instructions# 3788058

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#### FITTING BULL BAR TO VEHICLE



#### **CONNECTING INDICATOR/CLEARANCE LIGHTS**



CONNECTING FOG LIGHTS		
	NOTE: The wiring in vehicles fitted with factory 19W fog lights is not suitable for running ARB fog lamps.	
	For vehicles without factory fog lamps:	
	5. Install ARB wiring loom 3500440 and switch into vehicle. Refer to instructions supplied with loom. Place switch inside cabin in a suitable position.	
	<ol> <li>Connect ARB fog lights (# 6821201) to wiring loom.</li> </ol>	
	CAUTION: Ensure that all cables are securely fastened away from sharp, abrasive or hot surfaces.	
Keep these items   Discard these items	For vehicles with factory fog lamps:	
	<ol> <li>The factory fog light switch can be used in conjunction with the ARB loom 3500440 to power the ARB fog lights.</li> </ol>	
	<ol> <li>Discard loom switch and thin yellow wire from 3500440.</li> </ol>	
	<ol> <li>Install ARB wiring loom 3500440 into vehicle. Do not install switch or thin yellow wire.</li> </ol>	
	CAUTION: Ensure that all cables are securely fastened away from sharp, abrasive or hot surfaces.	
Black/white trigger wire	<ol> <li>Identify the black/white trigger wire from 3500440 as shown.</li> </ol>	
Cover black wire bullet terminal with tape	11. Connect the black/white trigger wire to the factory fog light wire using the supplied scotch lock or a female bullet connector. The factory fog light wire is light green and can be found at the back of the fog light as shown.	
Light Green fog light wire	12. Tape the bullet terminal from the black wire from 3500440 to prevent short- circuits. Securely fasten it away from sharp, abrasive or hot surfaces.	

FITTING BULLBAR TO VEHICLE				
	13.	If parking sensors to be fitted, insert sleeves first noting that they must be in the same orientation as in the original bumper (tab to top RHS down on LHS).		
Check that	14.	Fit sensors checking that they are not too tight, otherwise correct operation may be affected (if tight check hole size and rectify as necessary)		
sensor fits flush	15.	Connect to main loom and cable tie wiring securely		
M6 thread in vehicle tray Spacer tube	16.	Fit stone tray using 4 x M6 bolts and washer sets at front under bull bar and 2 x M6 x 40 bolts, washers and 18mm long tube spacers at two locations into existing sump guard front section as shown.		
	17.	Fit winch hook.		
Split horizontal	18.	If fitting winch apply double sided tape strip to top back of number plate. If not fitting winch use top holes in number plate and no adhesive is required.		
	19.	Fit grommets to slots, with split horizontal as shown		
	20.	Fit number plate using supplied pan head screws into grommets.		
	21.	Fit 5 x M6 cage nuts to each wing splash panel as shown on <i>inside</i> faces.		
Fit cage nuts to inside faces	22.	Fit panels up inside wings, secure using M6 x 20 black bolts and washer sets. Fix flange on panel to side of main mount bracket using M8 bolt set.		



23. Mark out and drill 2 x Dia 7.0 mm holes in each fender liner for securing to the splash panel flange.

Hint: Scribe a line on the liner parallel to the splash panel, measure and mark the position of the required holes 15mm up from the marked line.

- 24. Use M6 x 20 black bolts and washer sets to secure the fender liner to the panels.
- 25. Trim the fender liner end flush with the splash panel face as shown.

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



#### NOTE:

- Check wiring connections to fitted lights and winch.
- Check operation of winch and all lights.
- Check operation of headlight washers if fitted
- Check operation of parking sensors if fitted
- IMPORTANT: Check that all piping and wiring is clear of sharp edges and pinch points. Adjust any piping to clear the bull bar or mounts by a minimum of 15mm.

#### FINAL PRODUCT ON VEHICLE

