

Part Number:3450130F/KIT: 6172092Product
Description:COMBINATION BULL BARSuited to
vehicle/s:WH/WK JEEP GRAND CHEROKEE 2005 ON

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.

HAVE AVAILABLE THESE SAFETY ITEMS WHEN FITTING PRODUCT:

BASIC TOOL KIT

KEY HOLE SAW

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.

FASTENER TORQUE SETTINGS:

SIZE	Torque Nm	Torque lbft
M6	9Nm	4lbft
M8	22Nm	16lbft
M10	44Nm	32lbft
M12	77Nm	57lbft

NOTE: IF YOUR VEHICLE IS NOT FITTED WITH FOG LIGHTS YOU CAN PURCHASE A FOG LIGHT KIT FROM JEEP PART NO. 82209301

USE	PART No	QTY	DESCRIPTION	
	6151357	8	BOLT M10 x 1.5 x 30mm SEMS ASSY	
	6151090	2	BOLT M10 X 1.25 X 50mm	
	6151133	2	NUT M10 X 1.25	
IMPACT ABSORBER	4581040	4 4	WASHER FLAT M10	
MOUNTING SYSTEM	4581048 6151304	4 8	WASHER SPRING M10 NUT CAGED M10	
	3756904	0 1	MOUNT ASSEMBLY	
	5848328	2	PACKER MOUNT ASSY	
	4601172 L/R	2	CHANNEL CAPTIVE NUT (INSIDE CHASSIS RAILS)	
	3199854	2	PLATE CAPTIVE NUT (CROSSMEMBER TO CHASSIS)	
	6151291	2	BOLT M12 X 1.25 X 30mm (WITH EXTENSION PLATE)	
	6151133	2	NUT M10 X 1.25	
	4581049	4	WASHER FLAT M12	
	4581050	2	WASHER SPRING M12	
	6151135	2	NUT M12 X1.25	
	6151180	2	BOLT M6 x 20	
	4581082	2	M6 FLAT WASHER	
	4581036	2	M6 SPRING WASHER	
BULL BAR TO	6151357	8	BOLT M10 x 30mm SEMS ASSY	
IMPACT ABSORBERS	6151304	6	NUT CAGED M10	
	4581040	2	WASHER FLAT M10	
	6151026	2	NUT M10 X 1.5	
	6151021	2	BOLT M8 x 20mm	
CONTROL BOX BRACKET	4581046	2	WASHER FLAT M8	
	3751564	1	CONTROL BOX BRACKET	
	6151132	2	NUT FLANGE M8	
NUMBED DI ATE DDA CIZET	(151100	•	$\mathbf{DOI} = \mathbf{M}(-\mathbf{A}_{1},\dots,\mathbf{D}_{n})$	
NUMBER PLATE BRACKET	6151180	2	BOLT M6 x 20mm (BRACKET TO BAR) WASHER FLAT M6 x 13mm	
	6151046 6151128	4	NUT FLANGE M6	
	0151128	4	NUT FLANGE MO	
	6151180	2	BOLT M6 x 20mm (NUMBER PLATE TO BRACKET)	
	3751370	1	NUMBER PLATE BRACKET	
TO BOLT INDICATORS TO	6821151L	1	INDICATOR	
BAR	6821151R	1	INDICATOR	
	6821152	2	LOOM INDICATOR	
	6151308	4	SCREW SELF TAPPING 25	
	6821116 190701	4	GROMMET NYLON SNAP IN TYPE	
	180701 3162466 L/R	6 2	SCOTCH LOCKS BUFFERS 260 X 230 UPRIGHT B/BAR	
BUFFERS	6151128	12	NUT FLANGE M6	
AIR DEFLECTOR	6522662	12	AIR DEFLECTOR	
AIR DEFLECIOR	6151262	3	BOLT M8 X 20mm BLACK	
	6151303	3	NUT CAGED M8 BLACK	
	4581045	3	WASHER FLAT M8 x 20mm	
	4581045	5		
		3	WASHER SPRING M8 BLACK	
		3	WASHER SPRING M8 BLACK PANELS	
LINDED MUNC DANIEL	6522663 L/R	2	PANELS	
UNDER WING PANEL	6522663 L/R 6151213	2 10	PANELS BOLT M6 x 20mm BLACK	
UNDER WING PANEL	6522663 L/R 6151213 4581082	2 10 10	PANELS BOLT M6 x 20mm BLACK WASHER FLAT M6 BLACK	
UNDER WING PANEL	6522663 L/R 6151213 4581082 4581287	2 10 10 10	PANELS BOLT M6 x 20mm BLACK WASHER FLAT M6 BLACK WASHER SPRING M6 BLACK	
UNDER WING PANEL	6522663 L/R 6151213 4581082	2 10 10	PANELS BOLT M6 x 20mm BLACK WASHER FLAT M6 BLACK	
UNDER WING PANEL	6522663 L/R 6151213 4581082 4581287	2 10 10 10	PANELS BOLT M6 x 20mm BLACK WASHER FLAT M6 BLACK WASHER SPRING M6 BLACK	
	6522663 L/R 6151213 4581082 4581287 6151128	2 10 10 10 2	PANELS BOLT M6 x 20mm BLACK WASHER FLAT M6 BLACK WASHER SPRING M6 BLACK NUT FLANGE M6	
UNDER WING PANEL FOG LIGHT HOUSING AND FITMENT	6522663 L/R 6151213 4581082 4581287 6151128 6151300	2 10 10 10 2 8	PANELS BOLT M6 x 20mm BLACK WASHER FLAT M6 BLACK WASHER SPRING M6 BLACK NUT FLANGE M6 NUT CAGED M6	
FOG LIGHT HOUSING	6522663 L/R 6151213 4581082 4581287 6151128 6151128 6151300 3162457	2 10 10 2 8 1	PANELS BOLT M6 x 20mm BLACK WASHER FLAT M6 BLACK WASHER SPRING M6 BLACK NUT FLANGE M6 NUT CAGED M6 PLASTIC HOUSING RHS	
FOG LIGHT HOUSING	6522663 L/R 6151213 4581082 4581287 6151128 6151300 3162457 3162456 6821184	2 10 10 2 8 1 1 1 1	PANELS BOLT M6 x 20mm BLACK WASHER FLAT M6 BLACK WASHER SPRING M6 BLACK NUT FLANGE M6 NUT CAGED M6 PLASTIC HOUSING RHS PLASTIC HOUSING LHS LOOM (CABLE RED) (CUT INTO 4 EQUAL LENGTHS)	
FOG LIGHT HOUSING AND FITMENT	6522663 L/R 6151213 4581082 4581287 6151128 6151300 3162457 3162457 3162456 6821184 180701	2 10 10 2 8 1 1 1 8	PANELS BOLT M6 x 20mm BLACK WASHER FLAT M6 BLACK WASHER SPRING M6 BLACK NUT FLANGE M6 NUT CAGED M6 PLASTIC HOUSING RHS PLASTIC HOUSING LHS LOOM (CABLE RED) (CUT INTO 4 EQUAL LENGTHS) SCOTCH LOCKS	
FOG LIGHT HOUSING	6522663 L/R 6151213 4581082 4581287 6151128 6151300 3162457 3162456 6821184 180701 6151213	2 10 10 2 8 1 1 1 8 4	PANELS BOLT M6 x 20mm BLACK WASHER FLAT M6 BLACK WASHER SPRING M6 BLACK NUT FLANGE M6 NUT CAGED M6 PLASTIC HOUSING RHS PLASTIC HOUSING LHS LOOM (CABLE RED) (CUT INTO 4 EQUAL LENGTHS) SCOTCH LOCKS BOLT M6 x 20mm BLACK	
FOG LIGHT HOUSING AND FITMENT	6522663 L/R 6151213 4581082 4581287 6151128 6151300 3162457 3162456 6821184 180701 6151213 4581082	2 10 10 2 8 1 1 1 1 8 4 4 4	PANELS BOLT M6 x 20mm BLACK WASHER FLAT M6 BLACK WASHER SPRING M6 BLACK NUT FLANGE M6 NUT CAGED M6 PLASTIC HOUSING RHS PLASTIC HOUSING LHS LOOM (CABLE RED) (CUT INTO 4 EQUAL LENGTHS) SCOTCH LOCKS BOLT M6 x 20mm BLACK WASHER FLAT M6 x 20mm BLACK	
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FOG LIGHT HOUSING AND FITMENT	6522663 L/R 6151213 4581082 4581287 6151128 6151300 3162457 3162456 6821184 180701 6151213 4581082 6151128 6151213 4581082 6151128 4581287	2 10 10 2 8 1 1 1 8 4 4 4 4 4 4	PANELS BOLT M6 x 20mm BLACK WASHER FLAT M6 BLACK WASHER SPRING M6 BLACK NUT FLANGE M6 PLASTIC HOUSING RHS PLASTIC HOUSING LHS LOOM (CABLE RED) (CUT INTO 4 EQUAL LENGTHS) SCOTCH LOCKS BOLT M6 x 20mm BLACK WASHER FLAT M6 x 20mm BLACK NUT FLANGE M6 WASHER SPRING M6	
FOG LIGHT HOUSING AND FITMENT INNER GUARD TO BAR	6522663 L/R 6151213 4581082 4581287 6151128 6151128 6151300 3162457 3162457 3162457 6151128 6151213 4581082 6151128 4581287 180302 180302	2 10 10 2 8 1 1 1 1 8 4 4 4 4 4 2 8	PANELS BOLT M6 x 20mm BLACK WASHER FLAT M6 BLACK WASHER SPRING M6 BLACK NUT FLANGE M6 NUT CAGED M6 PLASTIC HOUSING RHS PLASTIC HOUSING LHS LOOM (CABLE RED) (CUT INTO 4 EQUAL LENGTHS) SCOTCH LOCKS BOLT M6 x 20mm BLACK WASHER FLAT M6 x 20mm BLACK NUT FLANGE M6 WASHER SPRING M6 CABLE TIES CABLE TIES	
FOG LIGHT HOUSING AND FITMENT INNER GUARD TO BAR	6522663 L/R 6151213 4581082 4581287 6151128 6151128 6151300 3162457 3162456 6821184 180701 6151213 4581082 6151128 4581287 180302 180302 6151073	2 10 10 2 8 1 1 1 1 8 4 4 4 4 4 2 8 2	PANELS BOLT M6 x 20mm BLACK WASHER FLAT M6 BLACK WASHER SPRING M6 BLACK NUT FLANGE M6 NUT CAGED M6 PLASTIC HOUSING RHS PLASTIC HOUSING LHS LOOM (CABLE RED) (CUT INTO 4 EQUAL LENGTHS) SCOTCH LOCKS BOLT M6 x 20mm BLACK WASHER FLAT M6 x 20mm BLACK NUT FLANGE M6 WASHER SPRING M6 CABLE TIES CABLE TIES BOLT 3/8" X 1 ¹ /2"	
FOG LIGHT HOUSING AND FITMENT INNER GUARD TO BAR	6522663 L/R 6151213 4581082 4581287 6151128 6151128 6151300 3162457 3162457 3162457 6821184 180701 6151213 4581082 6151128 4581287 180302 180302	2 10 10 2 8 1 1 1 1 8 4 4 4 4 4 2 8	PANELS BOLT M6 x 20mm BLACK WASHER FLAT M6 BLACK WASHER SPRING M6 BLACK NUT FLANGE M6 NUT CAGED M6 PLASTIC HOUSING RHS PLASTIC HOUSING LHS LOOM (CABLE RED) (CUT INTO 4 EQUAL LENGTHS) SCOTCH LOCKS BOLT M6 x 20mm BLACK WASHER FLAT M6 x 20mm BLACK NUT FLANGE M6 WASHER SPRING M6 CABLE TIES CABLE TIES	

ASSEMBLY SEQUENCE FOR BULL BAR INSTALLATION. PLEASE READ AND UNDERSTAND FITTING INSTRUCTIONS BEFORE ATTEMPTING TO FIT BAR TO VEHICLE



GRILLE RETAINER PANEL

1. Remove grille from vehicle by removing all plastic clips Be careful when removing plastic clips from grille as the plastic clips are awkward to undo and will be re used when refitting grille. Slide flat blade screw driver under pin of plastic clip and remove pin, then lift out the plastic clip. When all clips are removed, pull grill upward toward you.

2. Remove lower plastic grille retainer panel from vehicle and put aside, as this panel will have to be modified later.

Remove tow hook and crush cans from vehicle









3. To remove bumper bar where the inner guard is attached, push plastic pin inward, then pull out plastic retainer clip. Remove fog lights and fog light adjuster and the black plastic grommets from

4. To remove headlights from vehicle for ease of joining indicator looms and extending fog light looms, firstly lift plastic cover from above headlight and undo one plastic retaining clip and three 6mm bolts, then remove headlights.



6. Use scotch locks to connect wiring.

Summary of Wire Connections

FUNCTION	TURN	VEHICLE PARK LAMP		
	SIGNAL HARNESS	RIGHT	LEFT	
PARK LAMP	RED	BLACK / PINK	BLACK / PINK	
		VEHICLE INDICATOR		
		RIGHT	LEFT	
EARTH	BLACK	BLACK	BLACK	

7. Test all lighting at this stage.

8. To refit fog lights to bar, the loom must be extended.
9. Cut the fog light loom in half and then cut the 1.3 metre red wire, (supplied in bar fitting kit) into four equal lengths (i.e. 325mm each)

10. Scotch lock the red wire in between the fog light loom making sure the colour code matches.11. When all wiring is completed.Refit headlights back into vehicle.



REFER TO PARAGRAPH 2 FOR PANEL IDENTIFICATION

PHOTO OF REFITTED PANEL OF LEFT CORNER OF VEHICLE

12. Next step is to cut grille retainer panel so bar can be fitted.
13. From the photo below mark out a parallel line of 45mm and cut off panel not required using a jig saw or a key hole saw, then refit back to vehicle.



14. Fit M10 caged nuts into channel (channels are L/RHS) then fit channels inside of chassis rails

Notch in channel must face inward





- 22. As viewed from underneath on LHS of vehicle, align rear hole of mount assembly to previously fitted captive nut channel, secure using M10 bolt x 30mm SEMS (Bolt, Spring and Flat Washer ASSY.)
- 23. Finger tighten only.
- 24. Carry out fixing to both sides of vehicle.







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.

- 25. Using a 10mm drill bit, drill hole through chassis rail, using hole in mount as a template. Be careful not to drill into the nut in captive nut channel.
- 26. Secure using bolts same as above, when all four bolts are fitted, tighten securely.





LHS OF VEHICLE



30. Fit M10 caged nuts into captive nut plate, then align with previously drilled front holes.
31. Secure using M10 bolts (SEMS) finger tighten only.



- 32. Insert M12 Tagged bolt / flat washer into the chassis rail and pass through 12mm hole in chassis rail.
- 33. Fit through hole in captive nut plate and secure with flat, spring washer and 12mm nut.
- 34. Finger tighten only





- 35. Fit a M10 bolt x 50mm (fine thread) and a flat washer up from inside chassis rails, through packer and chassis mount assy and secure with a flat, spring washer and 10mm nut.
- 36. At this stage all bolts are fitted to vehicle. Know they can all be tightened.





















71. Apply a bead of silicon around light cutout on bar and hold fog light housing to bar using masking tape until silicon dries, then remove tape.



72. If fitting fog lights back into vehicle, pull extended loom through fog light mounting bracket and refit black plastic grommets back into square hole.



73. Reconnect fog light plug back into light.

74 .Smear grease onto the light mounting pivots to help when sliding fog light back into mounting bracket.

75. NB. When fitting light into bracket, you must rotate light so plug fits in between rear of bracket and vehicle crossmember, then push light rearward until light click into bracket mounting holes.



76. When light is fitted to bracket refit adjuster screw then reset light alignment.

IF YOUR VEHICLE IS NOT FITTED WITH FOG LIGHTS, YOU CAN PURCHASE A FOG LIGHT KIT FROM JEEP. Part no. 82209301.

77.Follow steps to fit light housing to bar same as paragraph 71.NB. Photo shows silicon applied around fog light cutout.



78. Position for Hi lift jacking point.





79. The Warn roller fairlead cover must be fitted to roller fairlead when winch is not in use due to protruding sharp edges legislation.

Warn Part no. W25580

80. The cover requires the lower side profile to be cut to fit the bar centre section profile.

PHOTO SHOWS COLOUR CODED BAR

