

Part Number:	3450480
Product Description:	DELUXE BULLBAR
Suited to vehicle/s:	JEEP GRAND CHEROKEE WK2 2017 ON (EXCLUDING SRT, TRACKHAWK, S-OVERLAND)
Optional Kits:	Winch Install Kit: 3540050

Radar Install Kit MY17: 3550110 Radar Install Kit MY18 ON: 3550130 ARB LED Fog Light Kit: 3500890 Wiring Loom for LED Fog Lights: 3500520

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 Carnauba 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:

BASIC TOOL KIT	MASKING TAPE
MARKER PEN	MULTI-TOOL / JIGSAW OR SIMILAR
TORQUE WRENCH	SOLDERING IRON AND SOLDER
ELECTRICAL TAPE OR EQUIV.	

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.

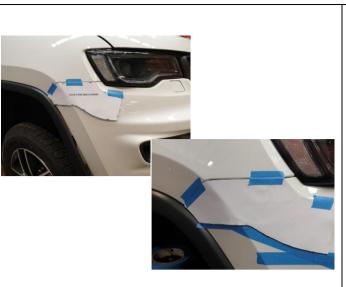
FASTENER TORQUE SETTINGS:			
SIZE	Torque Nm	Torque lbft	
M6	9Nm	7lbft	
M8	22Nm	16lbft	
M10	44Nm	32lbft	
M12 x1.75	77Nm	57lbft	
M12 x 1.25	96Nm	71lbft	

	PA		TING
APPLICATION.	PART NO.	QTY	DESCRIPTION
	3759170R	1	BRACKET ASSEM MOUNT WK2 GC RH
	3759170L	1	BRACKET ASSEM MOUNT WK2 GC LH
	3759182	1	COMPRESSOR BRACKET
	4581082	2	WASHER FLAT, M6 x 19 x 1.6 BZ
	6151480	6	NUT FLANGE M12 X 1.25 ZP
	4581011	6	WASHER FLAT, M12 x 27 x 4
	4581063	4	WASHER FLAT, M8 x 25 x 3 GOLD ZN
PREPARE VEHICLE	6151094	2	BOLT HXHD M12 X 1.25 X 30 CL8.8 ZP
	6151096	4	BOLT HXHD M12 X 1.25 X 40 CL8.8 ZP
	6151022	4	BOLT M8 x 1.25 x 25 GD 8.8 ZP
	6151550	2	BOLT M6 x 1.25 x 25 GD 8.8 BP
	4681454	2	BRACE CHASSIS BASE WK2 GC
	6821152	2	TURN SIGNAL LOOM
	6151357	4	BOLT SEMS M10 X 30 ZP GD 8.8
	3789972	1	TEMPLATE TRIM/CUT 17ON JEEP GC
PARKING SENSORS	EG50	4	GROMMET RUBBER
PARKING SENSORS	3500970	6	SENSOR HOUSING ASSEMBLY
	3194531R	1	PLATE IMPACT SLIDE WK2 JEEP GC
	6151207	4	BOLT HX HD M6 x 1.0 x 25 GR8.8 TZP480
	4581049	2	WASHER FLAT, 1/2 x 1 1/8 x 3 GOLD ZN
	6151046	4	WASHER FLAT, M6 ZP
IMPACT ABSORBERS	6151128	4	NUT FLANGE M6 x 1.0 ZP
IMPACI ABSORBERS	6151321	2	NUT FLANGE M10 x 1.5 ZP
	3194532	2	PLATE ASSEM IMP ABS JEEP WK2 GC
	3194531L	1	PLATE IMPACT SLIDE WK2 JEEP GC
	4584352	2	WASHER NYLON 12 X 25 X1.5
	6151658	2	BOLT SHOULDER M12 X 16
	4681460	2	BRACE PLATE JEEP WK2 GC RH
	5848394	8	PACKER WK2 JEEP GC
FIT BAR TO VEHICLE	4581011	6	WASHER FLAT M12 X 27 X 4
	6151480	6	NUT FLANGE M12 X 1.25 ZP
	6151096	6	BOLT HXHD M12 X 1.25 X 40 CL8.8 ZP
	6821151R	1	INDICATOR RH
		-	
FOG/TURN/CLEARANCE LIGHTS	6821151L	1	
	3163015	1	FOG LIGHT SURROUND KIT

PARTS LISTING			
APPLICATION	PART NO.	QTY	DESCRIPTION
	3162470R	1	BUFFER RH
BUFFERS	3162470L	1	BUFFER LH
	6151128	12	NUT FLANGE M6 x 1.0 ZP
	6522928	1	PANEL STONE SHIELD WK2 JEEP GC
	6522927R	1	PANEL UNDER WING WK2 GC RH
	6522927L	1	PANEL WING JEEP GC WK2 LH
	6151262	2	BOLT M8 x 1.25 x 20 Gd 8.8 BZ
UNDER PANELS	6151550	17	BOLT HXHD M6 x 1.0 x 25 GR8.8 BTZP480
	4581085	2	WASHER FLAT, M8 x 19 x 1.2 BLK ZN
	4581082	17	WASHER FLAT, M6 x 19 x 1.6 BZ
	6151132	2	NUT FLANGE M8 x 1.25 ZP
	6151300	14	NUT CAGED M6 2.6-3.5
	3759183	1	BRACKET WINCH SOCKET
	EG50	2	GROMMET RUBBER
	6151128	6	NUT FLANGE M6 x 1.0 ZP
WINCH FITMENT	6151550	5	BOLT HXHD M6 x 1.0 x 25 GR8.8 BTZ
	6151300	3	NUT CAGED M6 2.6-3.5
	4584295	5	WASHER FLAT M6 X 12 X 1.3 BLK ZN
	6151300	4	NUT CAGED M6 2.6-3.5
	4584295	4	WASHER FLAT M6 X 12 X 1.3 BLK ZN
INNER GUARD RETENTION	4581304	4	WASHER FLAT, M6 SS
	6151256	4	SCREW BTN HD M6 x 16 SS
	6151459	4	SCREW BTN HD M6 x 16 BZ
	3194584	2	PLATE INNER GUARD RET WK2
	180302	12	CABLE TIE 4.8 X 180 MM BLACK
MISC	2125781	1	LABEL TOW WARNING
	6191020	2	PINCH WELD 400mm NARROW LONG
	6151128	2	NUT FLANGE M6 x 1.0 ZP
FIT LICENCE PLATE	4581304	2	WASHER FLAT, M6 SS
	6151256	2	SCREW BTN HD M6 x 16 SS

FITTING PROCEDURE			
	1.	Remove the 3 bolts and 1 plug holding the stone shield to the cross beam and discard.	
	2.	Remove the 2 bolts holding the stone shield to the wheel arch inner guards and discard. Allow the stone shield to hang down.	
	3.	Remove the 2 bolts holding the steel bash plate to the cross member.	
	4.	Undo and discard the 5 quarter turn plastic clips holding the bumper to the vehicle.	
	5.	Remove the under panel and set aside in a safe place.	
	6.	Undo the clips on each side of the vehicle and remove the lower section of the bumper.	
	7.	Remove the plastic scrivets and screws securing the inner guards to the bumper bar.	
	8.	Carefully unclip the plastic wheel arch trim	
	9.	Remove the foam bumper-packer and discard.	
	10.	Carefully remove the parking sensors and loom from the bumper and set aside in a safe place.	
	11.	Label each parking sensor position. Leave sensors plugged into the loom	
	12.	Unplug Fog lamps if fitted	
at a second		Radar Removal:	
and the second	13.	Disconnect radar plug.	
	14.	Unclip outer shield	
	15.	Unclip the radar from the bracket	
	16.	Remove bracket from vehicle and set aside all components	
		WARNING: TAKE CARE WHEN HANDLING THE RADAR SENSOR	

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- 17. Affix the template provided on the bumper as shown
- 18. Place masking tape on the bumper (under the template) along the trim line and mark the trim line with a permanent marker.
- 19. Continue the trim line along the plastic wheel arch trim



- 20. Repeat on the other side of the vehicle
- 21. Run masking tape above and below the bumper style line as shown leaving a 1-2mm gap. This gap will be used as the trim line

The trim line from the cutting template should line up with the style line:



22. The trim line should look like this and follows the bumper style line



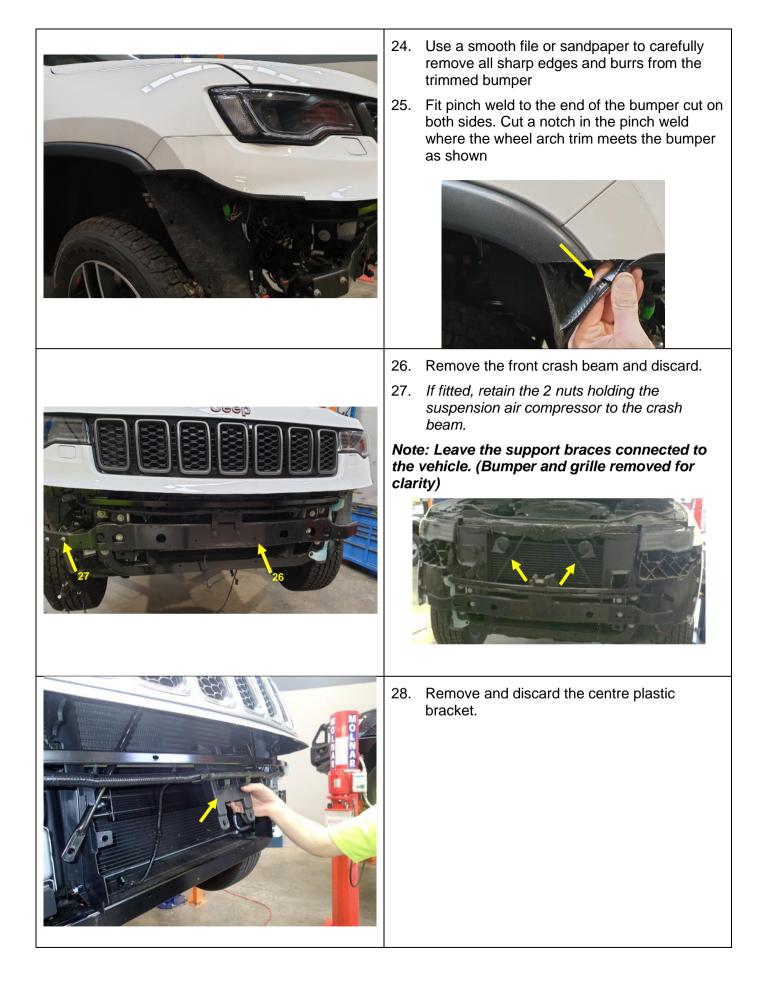
23. Using an oscillating multi-tool, carefully cut along the trim line, ensuring the upper part of the bumper does not get scratched. Discard lower section of bumper

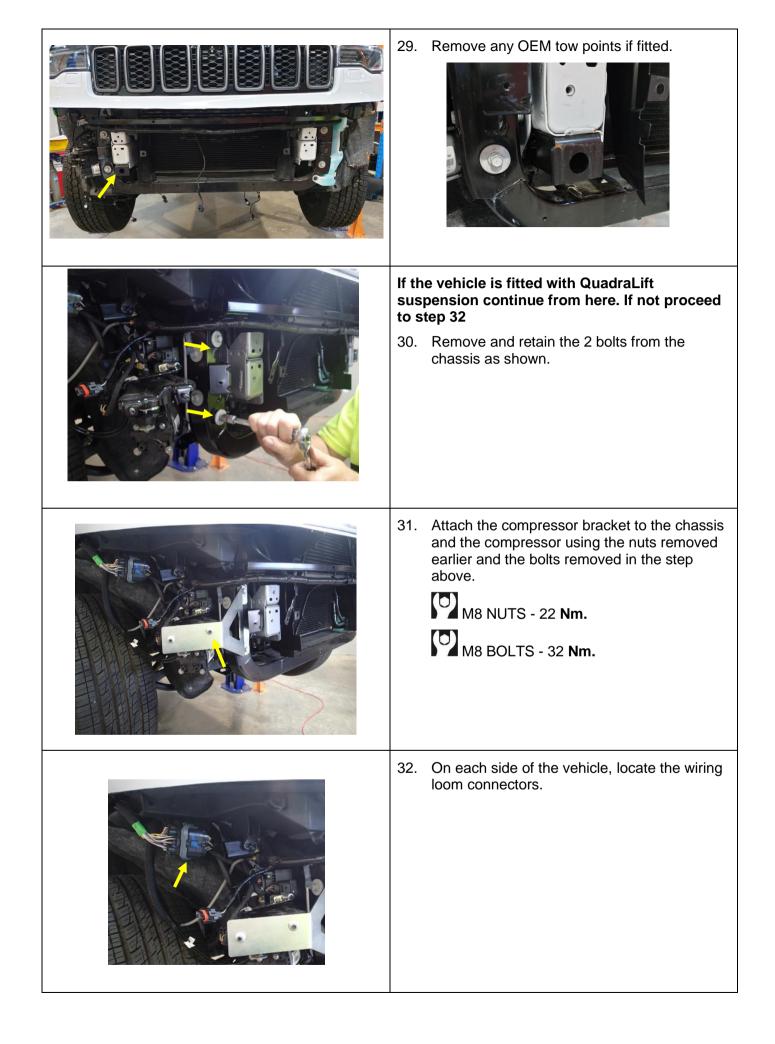


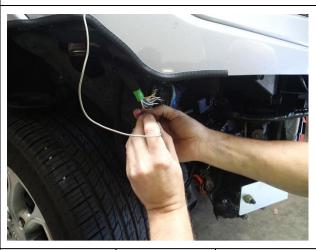
Warning: Cutting operations can result in flying debris. Safety glasses should be worn.



Trimmed Bumper







33. On each side of the vehicle identify the wire for the indicators and the clearance lamps using the chart below.

Warning: Wire colours may vary slightly and should be double checked with a multi-meter or test light. Failure to double check may result in damage to the vehicle.

Using a soldering iron and solder, connect the supplied indicator clearance looms to each side of the vehicle as per the table shown to

Description	Loom Wire Colour	Vehicle Cable Colour	34.
RH TURN SIGNAL	GREEN	WHITE/BROWN	35.
LH TURN SIGNAL	GREEN	WHITE/GREEN	30.
RH CLEARANCE	RED	WHITE/ORANGE	
LH CLEARANCE	RED	WHITE/BROWN	
EARTH	BLACK	BLACK	





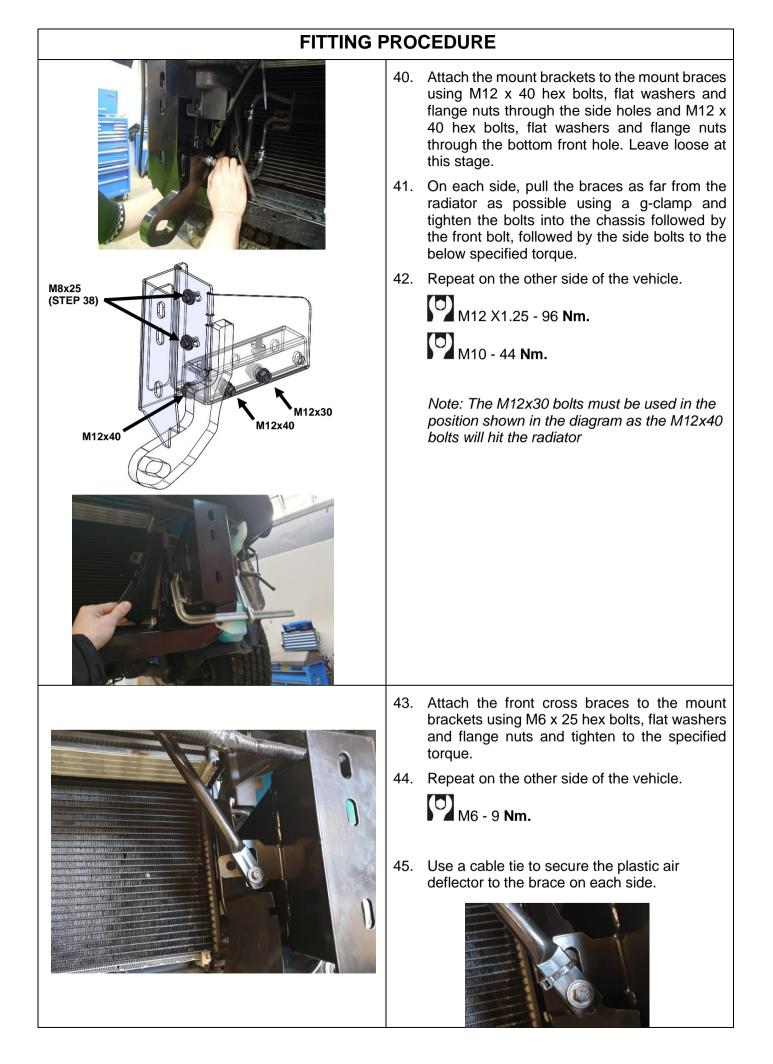
Cover all joints with electrical tape or similar.

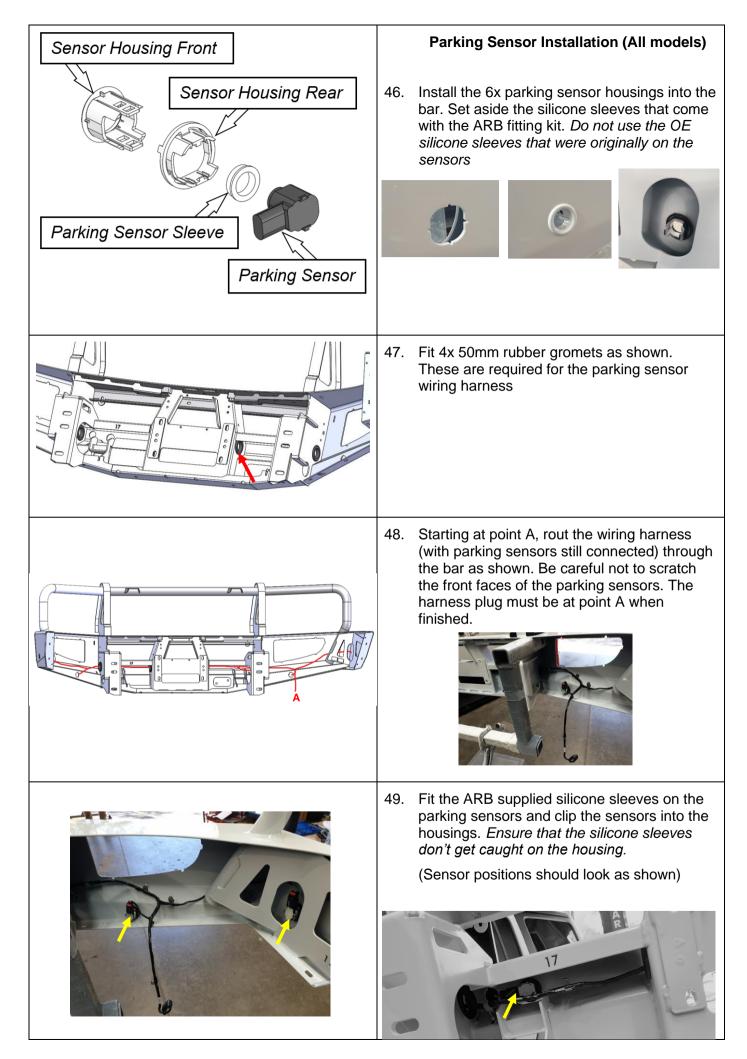
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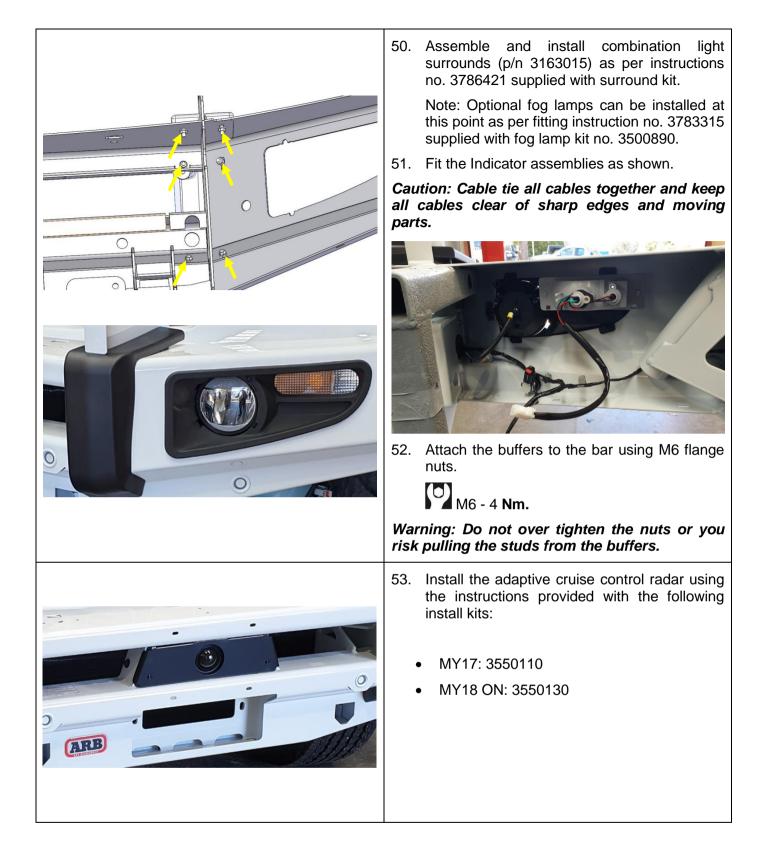
- Attach the chassis mount braces to the bottom face of the chassis rails using 2 x M10 SEMS bolts in each side. Leave loose at this stage.
- 37. Repeat on the other side of the vehicle.

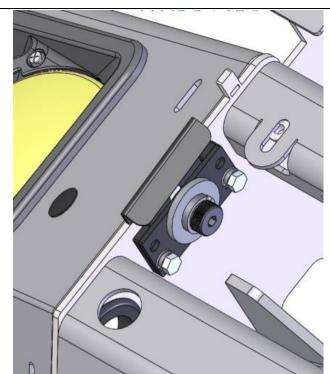


- 38. Attach the mount brackets to the chassis ends using 2 x M8 x 25 hex bolts and flat washers on each side. Leave loose at this stage. See diagram on next page
 - The drivers side has the tow hook
- 39. Repeat on the other side of the vehicle.







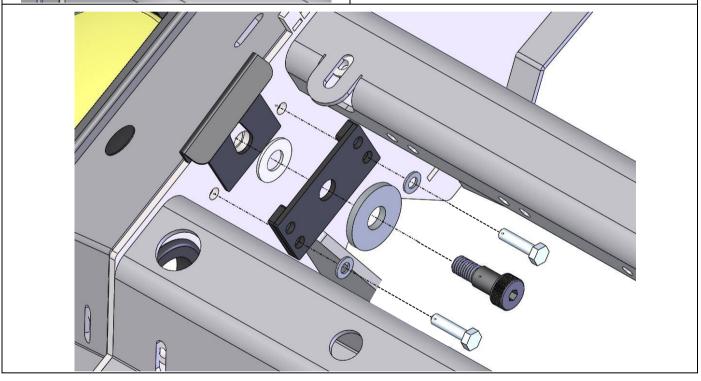


- 54. Beginning with the right-hand side of the vehicle, assemble the impact absorber as per the exploded view diagram shown below including 2 x M6 flange nuts and 1 x M10 flange nuts hidden in the view. Please see the component list at the start of these instructions for the list of fasteners required. The assembled item should resemble the picture to the left.
- 55. Once assembled, tighten all fasteners to the specified torque.



Warning: If the fasteners are not tightened to the correct torque setting the impact absorber may not perform correctly in the event of a collision.

56. Repeat on the other side of the vehicle.



WINCH FITMENT (if not fitting a winch proceed to step 66)

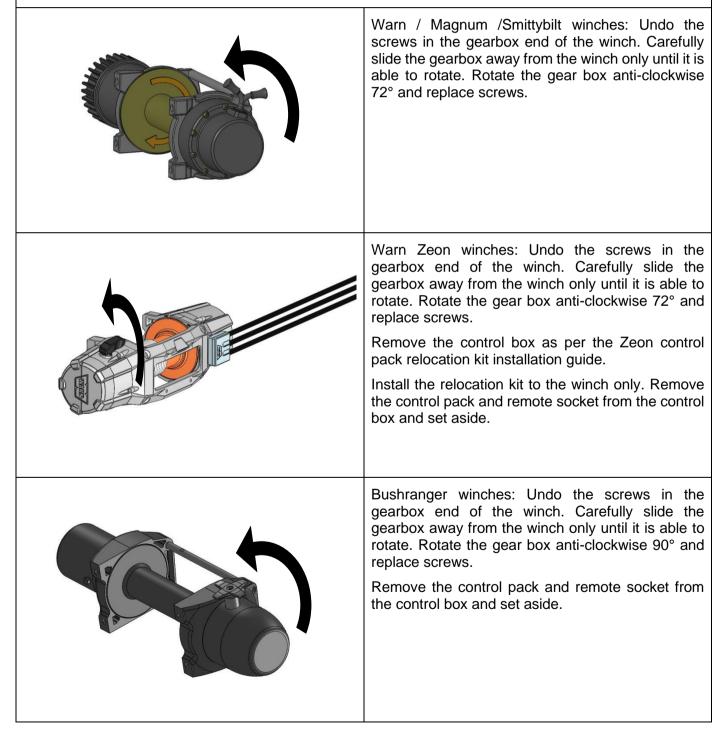
This bull bar has been designed to fit a range of Warn, Magnum, Bushranger and Smittybilt winches up to a capacity of 10000lbs capacity. It is important that a winch of a greater capacity is not fitted even if it physically fits into the bar. Failure to comply could result in damage to the bar and / or personal injury. Please read and take note of the owner's manuals supplied with your winch before proceeding. The following steps vary depending on which winch you are fitting.

In the case of Warn Zeon winches, a supplementary kit (Warn p/n 86695) is required. In the case of Smittybilt supplementary kit 3500580 is required.

If fitting synthetic rope supplementary kit 3540060 is required.

For <u>ALL</u> winches ARB winch install kit 3540050 is required.

57. Winch Preparation



If fitting a Bushranger or Zeon winch continue from here. If not continue to install the winch as per fitting instructions 3787989 supplied with kit 3540050. The following pictures show the Zeon plug and plug cover. The same steps apply for fitment of Bushranger winches.

58. Fit M6 cage nuts to the plug mount bracket.
59. Attach the mount bracket to the bar using M6 hex bolts and M6 flat washers.M6 - 9 Nm.
60. Attach the remote socket to the bracket using the screws removed from the factory control box. In the case of Zeon, use the M5 flange nuts supplied with the bar kit.
<i>Note: </i> 2 <i>sets of holes have been cut to match the</i> 2 <i>different sockets.</i>

FITTING PROCEDURE			
	61.	Attach the socket cover to the socket.	
	62.	The control pack mounts to the bar here as shown using M6 hex bolts, M6 flat washers and M6 flange nuts. M6 - 9 Nm.	
	63. 64. 65.	control pack.	



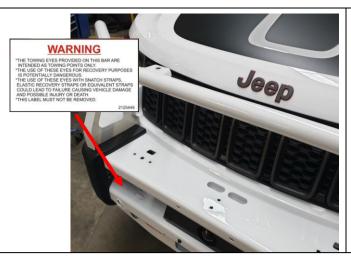


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 85. Attach the inner guard retention plates to the bullbar as shown using M6 button head screws and M6 flat washers. Note: Both stainless steel and black hardware have been supplied to fit the inner guard retention plates. Either may be used depending on vehicle colour
84. Place M6 cage nuts into each of the inner guard retention plates.<i>Note: RH side shown, LH side opposite.</i>
 81. On the inner guard of each side of the vehicle, mark a line as shown just below the top edge of the bulbar, in board approximately 25mm and just above the bottom edge of the trimmed bumper bar. 82. Using a saw or sharp knife, carefully cut along the marked line and remove the square shaped piece. 83. Tuck the inner guard in behind the bull bar wing and under wing panel.
 78. On each side of the vehicle, hold the inner guard against the wing and under wing panel. 79. Using a marker or paint pen, mark a line along the edge of the under-wing panel on the inner guard. 80. Using a saw or sharp knife, carefully cut along the marked line and remove the bottom section of the inner guard. Warning: Take care when cutting the inner guards to cut away from yourself to prevent injury.



ONCE BAR IS FITTED:

- Ensure all bolts are tensioned correctly.
- All wiring is clear of sharp edges or moving surfaces and secured properly.
- Piping is secured well away from sharp or moving components.
- Check operation of winch, if fitted.
- Check all wiring and connections to turn signal lamps, sensors, headlamp washers etc. are functioning correctly.
- Misalignment of parking sensor to housing in bull bar may cause malfunction.
- Test operation of parking sensors after fitment.

Note:

Do not add any accessories to the Bull Bar on or around the sensors, this may affect the function of the sensors.

Sensors may not function well under the following conditions;

- After the vehicle, has been sitting out in hot, cold or wet weather.
- When the system is affected by electrical equipment or devices generating an ultrasonic wave.

FITTED PRODUCT – 2019 Trailhawk Model Shown



86. Place the tow warning label onto the top surface of the lower pan as shown.

<u>NOTE:</u> This label must be fitted and cannot be removed.