

Part Number: 3450230, 3450240, 3450260 & 3450270

Product

Description: JEEP WRANGLER JK COMMERCIAL BULL BAR

Suited to

vehicle/s: CHRYSLER WRANGLER JK JEEP 2006 ON

Optional kits: 3550140 CRUSH CAN EXTENDER KIT (USA market only)

### **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	SOLDERING IRON AND SOLDER
TORQUE WRENCH	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 Ibft
	M6	9Nm	7lbft
For plastic buffers	M6 (trilobial)	6Nm	4.4lbft
	M8	22Nm	16lbft
	M10	44Nm	32lbft
	M12	77Nm	57lbft
	3/8"	44Nm	32lbft

PARTS LISTING						
APPLICATION.	PART NO.	QT Y	DESCRIPTION			
	6151357	2	BOLT SEMS M10 X 30 ZP GRADE 8.8			
	180302	10	CABLE TIE 4.8 X 180MM BLACK			
WINCH FITMENT KIT	6151073	4	BOLT HX HD 3/8" x 1.5 GR8.8 TZP480			
	4581040	4	WASHER FLAT M10 X 25 X 3 ZP			
	6151321	2	NUT FLANGE M10			
	6151357	8	BOLT SEMS M10 X 30 ZP GRADE 8.8			
	6151168	2	BOLT M12 X 1.75 X 80MM			
	4581050	2	WASHER SPRING 1/2"			
<b>CHASSIS MOUNTING KIT</b>	4581049	2	WASHER FLAT ½"			
	3199848	2	NUT PLATE CAGED M12			
	6151305	2	NUT CAGED M12 X 1.75			
	5848346	2	PACKER JEEP			
	6151262	2	BOLT M8 X 20MM BLACK			
CONTROL DOV DRACKET KIT	4581075	2	WASHER FLAT M8 BLACK			
CONTROL BOX BRACKET KIT	3756262	1	CONTROL BOX BRACKET			
	6151132	2	NUT FLANGE M8			
	3759320/3759337	2	BRACKETS LIGHTS BOLT ON			
LIQUE DDA OVET VIT	4581075	8	WASHER FLAT M8 BLK ZN			
LIGHT BRACKET KIT	6151547	4	NUT HEX NYLOC M8 x 1.25 GR8.8 ZP			
	6151234	4	BOLT M8 x 1.25 x 25 Gd 8.8 BP			
BUFFER KIT	3163008	2	BUFFER JEEP WRANGLER			
	6151372	8	SCREW PLASTITE, TRILOBIAL 14-10X1			
CRUSH CAN EXTENDER KIT	3759295	2	CRUSH CAN EXTENSION			
(ACCESSORY Part No. 3550140)	6151143	6	SCREW WAFER HD 10-32 SELF DRILL			
, , , , , , , , , , , , , , , , , , , ,	6151262	4	BOLT M8 X 1.25 X 20 Gd 8.8 BZ			
	4581075	4	WASHER FLAT, M8 BLK ZN			
	4584294	8	WASHER FLAT M4X9X0.85 TZP 480			
	6151132	4	FLANGE NUT M8			
FOG LIGHT FITTING KIT	3757531	1	BRACKET FOG LIGHT JEEP LH			
	3757531R	1	BRACKET FOG LIGHT JEEP RH			
	6151404	8	NUT FLANGE M4			
	6821184	1	1300MM RED WIRE LOOM			
	6151254	8	SCREW PAN HD M4X20			
	180701	8	SCOTCH LOK			
FOG LIGHT INSERT COVER KIT	3199960	2	PLATE FOG LIGHT COVER JEEP			
	3162468	2	INSERT FOG INDICATOR SURROUND			
(ACCESSORY Part No. 3550030)	6151317	8	SCREW #8 – 18 X 5/8" PAN HD			
NON WINOU DAY 2017-17-	6151132	4	FLANGE NUT M8			
NON-WINCH PAN COVER KIT	3314940/3314964	1	PAN COVER			
(ACCESSORY Part No 3550150/3550180)	6151021	4	BOLT M10 X 1.5 X 20 HEX HD GR8.8 ZP			
3330 130/3330 160 <i>)</i>	4581307	4	WASHER FLAT, M8 X 20 X 2 BLK ZN			

PARTS LISTING Cont.						
NUMBER PLATE BRACKET ASSEMBLY	3757049	1	BRACKET NUMBER PLATE PIVOT			
	3757048	1	BRACKET NUMBER PLATE MOUNT			
	5848302	2	PACKER RB NYLON			
	6151128	4	NUT FLANGE M6 X 1.0 XP			
	6151223	2	NUT NYLOC M6 X 1.0 BZ			
	6151256	2	SCREW BUTTON HD M6 X 16 SS			
	4584327	8	WASHER F M6 X 16 X 1.2 BTZP 480			
	6151213	4	BOLT M6 X 1.0 X 20 GD 8.8 ZP			
WING BRACE FITTING KIT	6151464	8	SCREW BTN HD M8 x 16 BLK ZP			
	4581075	8	WASHER FLAT, M8 (5/8") BLK ZN			
	6151132	8	FLANGE NUT M8			
	4681472L/4681483L	1	BRACE WING LH			
	4681472R/4681483R	1	BRACE WING RH			
INDICATOR FITTING KIT	3500080	1	INDICATOR KIT			
	6821198	1	RELAY LOOM			



1. Remove plastic bumper from the vehicle including all hardware located behind it.

Note: Vehicle shown in Figure 1a is not fitted with fog lights.



Note: Jeep Wrangler JK comes in three Different versions of bumper bars:

- i) No fog lights.
- ii) Fog lights positioned inboard.iii) Fog lights positioned outboard.

Figure 1b shows bumper variants offering fog lights ii) & iii).









For vehicles fitted with crush cans (USA market) continue to step 2. Vehicles <u>not</u> fitted with crush cans, skip to step 4.

- 2 a) Once impact beam is removed, mark out a 175x120mm section onto the impact beam on both sides.
  - b) Carefully cut marked section using an angle grinder fitted with a turbo disc.
  - c) Retain crush cans and dispose of the impact beam.
  - d) Clean up any sharp edges or burs with a file.
  - e) Apply black spray paint to cut edges to prevent corrosion.







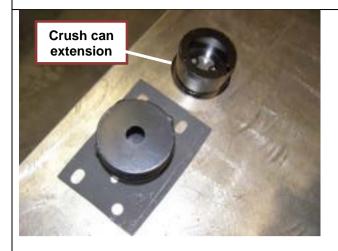










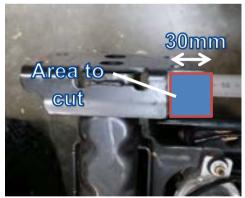


 Attach crush can extensions supplied with bull bar to crush cans using 6x self-drilling screws supplied with crush can extension fitting kit ACCESSORY Part No 3550140 (3x screws per crush can).

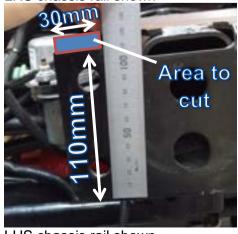
Note: When attaching crush can extensions to crush cans, ensure both parts are concentric to one another.







LHS chassis rail shown



LHS chassis rail shown

### For applications where winch is <u>not</u> going to be fitted, skip step 4 below.

- 4a) Mark section on chassis rail front mounting face with reference 110mm from bottom edge (horizontal marking) and 35mm from inside edge (parallel to longitudinal axis of vehicle).
- b) Carefully cut marked section using an angle grinder fitted with a turbo disc.
- c) Clean up any sharp edges or burs with a file.
- d) Apply black spray paint to cut edges to prevent corrosion.







LHS assembly shown

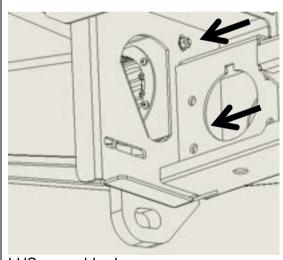
For Vehicles <u>not</u> fitted with fog lights, use fog light insert cover kit ACCESSORY Part No. 3550030 in place of fog light for the following installation procedure. (Refer to Figures on next page)

5. Secure fog lights to mounting brackets using M4 fasteners supplied with fog light fitting kit ACCESSORY Part No 6172261.



LHS assembly shown

6. Secure fog light assembly to bull bar using M8 fasteners supplied with fog light fitting kit.



LHS assembly shown

7. Adjust fog light so that it sits central to the fog light aperture in the bull bar.

Tighten both bolts on each side of bar to the torque specification on page 2.

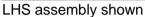


Image of fog light fitted to vehicle (from front)

Figure to the left shows what the bull bar should look like once all fog light components are installed correctly.

Note: Final vertical adjustment of the fog light can be carried out using a Torx T20 key once the bull bar is fitted to the vehicle.







LHS assembly shown



- 8 a) Position bar on a flat surface upside down so that you have access to both front and rear sections of the bull bar.
  - b) Fit buffers to the bar by holding each buffer against the front of the bull bar and securing from the rear using 8x 6mm trilobial screws supplied with buffer kit (4 per buffer).





9. To install indicator lights to the bull bar, fit plastic plugs into the cavity in the wing and fix the light to the plastic plug from the front using screws supplied in indicator fitting kit.



10. Position crush cans into mounting bracket openings located at the rear of the bar.

Note: To hold crush can plate into position as bull bar is offered to the vehicle later on in the installation process, smear a small amount of silicon onto mounting face.

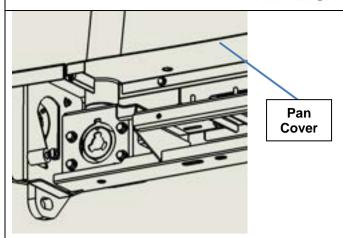




11. Loosely fasten bull bar to vehicle chassis using M10 fasteners supplied in chassis mounting kit.

Note: If your vehicle is <u>not</u> going to be fitted with a winch, install pan cover kit <u>ACCESSORY Part No 3550150/3550180</u> to bull bar before mounting bull bar to vehicle chassis.

(Refer to Figure below)





For vehicle models 2010 onwards, the following (step 12) is required. For all other models move to step 13.

12. Using the bull bar bracket shown in Figure 11 as a guide, carefully drill through the chassis rail side bracket using a 12mm or 1/2inch drill bit.

Ensure that drill is aligned with rear of the bull bar bracket slot as shown before drilling.



LHS Shown



13. Position packers in between bull bar mounting bracket and chassis (at rear most slot in bracket).

Loosely fasten bull bar to chassis sides using M12 fasteners supplied.

Note: Bend tail of captive nut plate to help guide it into chassis rail.







**RHS Shown** 



14. Tighten all chassis mounting fasteners to correct torque specifications listed on page 2.

Tighten M10 fasteners first and then proceed to tighten M12 fasteners.

Once all fasteners are torqued, break off nut plate tail protruding below cross member using a pair of pliers.



### For vehicles <u>not</u> being fitted with a number plate, skip steps 15 & 16.

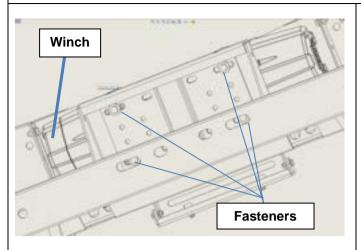
15. Assemble number plate components supplied with number plate fitting kit as per Figure 14. Ensure assembly is not over tightened so that it may pivot with reasonable amount of friction.



16. Mount number plate bracket assembly to bull bar using M6 fasteners supplied with number plate fitting kit.

#### WINCH INSTALLATION - FITTING PROCEDURE

FOR ALL WARN WINCHES UP TO XP9.5 INCLUDING ZEON, SMITTYBUILT, MAGNUM AND BUSHRANGER



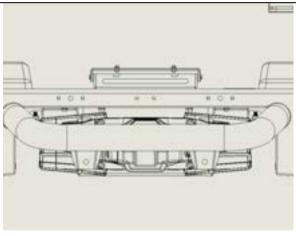
17. Lower winch onto bull bar mounting platform carefully aligning with slots.

Fit 3/8" nuts into winch retaining cavities if applicable.

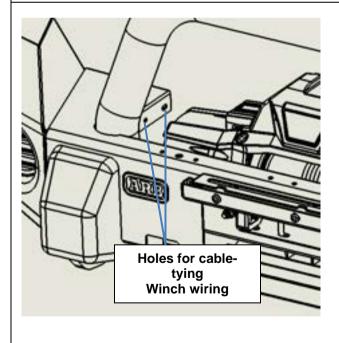
Loosely fasten winch into position from underneath the vehicle.

Check lateral alignment of winch relative to bull bar.

Tighten fasteners to torque specification listed on page 2.



18. Use cable ties to fix winch power cables to pan to tidy up area.

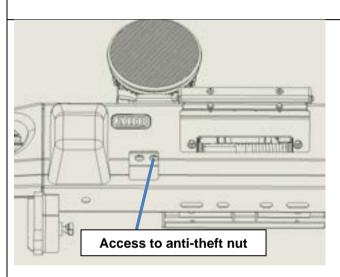




For winch models that come with a control box to be mounted separately to the winch, complete step 19.

19. Fit control box bracket to bar using M8 fasteners supplied with control box bracket kit. Fit control box to control box bracket using fasteners supplied with winch as per winch supplier fitting instructions.

Note: Use cable ties to keep power cables together and keep clear of all moving components and sharp edges.

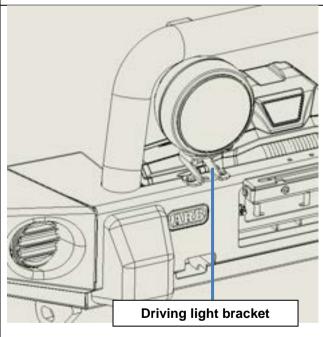


### If the vehicle is to be fitted with ARB intensity LED driving lights, refer to step 19.

20. Position driving lights onto bull bar aligning holes in bracket with those on top surface of bull bar.

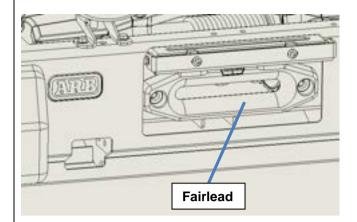
Fasten driving light brackets using M8 fasteners supplied with light bracket kit. A socket extension will be required to fasten M8 nyloc nuts, accessing through the HiLift mount opening.

Fasten anti-theft nut and M12 bolt using Intensity pinned socket supplied with ARB Intensity driving light kit.



## If the vehicle is to be fitted with IPF driving lights, refer to step 21.

21. Fasten driving light brackets to bull bar using M8 fasteners supplied with light bracket kit. Fix driving lights to brackets using fasteners supplied with IPF driving light kit.

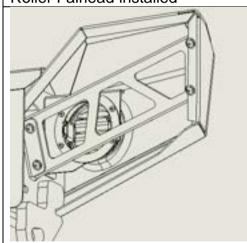


For vehicles fitted with a winch, refer to step 22.

22. Fit the fairlead to the bull bar using M10 fasteners supplied with winch fitment kit.



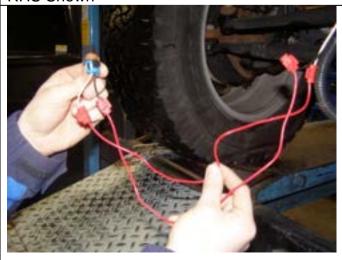
Roller Fairlead installed



23. Fit wing braces to bull bar using M8 fasteners supplied with wing brace fitting kit.

Tighten fasteners to torque specifications outlined on page 2.





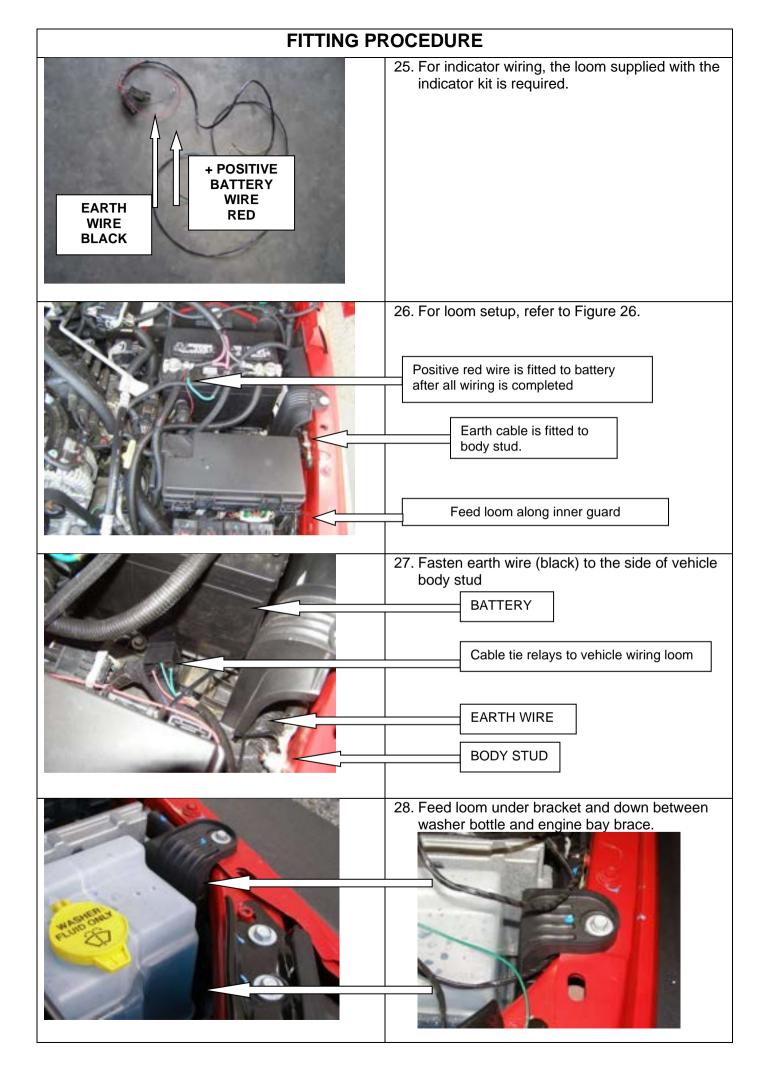
# For vehicles fitted with <u>INBOARD</u> fog lights, complete step 24.

24. Cut 1300mm length of red wire supplied with bolt kit into four equal lengths of 325mm each.

Cut off the fog light plugs from the vehicle loom leaving approximately 100mm of wire on the ends of the plugs.

Using scotch lok fasteners supplied in the bolt kit, fasten the red wire lengths in between plug ends and vehicle loom.

Use cable ties to secure all wiring.





- 29. a) Feed loom down until LHS indicator spliced wiring is in posiiton to be attached to vehicle indicator.
  - b) From the bar loom, fit the yellow wire (with black trace) to vehicle indicator loom white/green (with black trace) securing with a scotch lok.
  - c) To wire up the bar indicator, scotch lok yellow to yellow wiring and black to black wiring.
  - d) After securing wiring, run loom along inside vehicle crossmember to the RHS of vehicle loom using cable ties.



- 30. a) To wire the indicators to the RHS of vehicle, connnect green wire (black trace) from bar loom to white wire (brown trace) from vehicle indicator. Secure using scotch lok.
  - b) To wire up the bar indicator, scotch lok black to black wiring and green to yellow wiring.



Taped loom LHS shown



- 31. Bolt number plate to number plate bracket using M6 fasteners supplied with number plate assembly kit.
  - Torque to specification listed on page 2.

### FITTED PRODUCT - Shown with Warn Zeon winch

