



FITTING INSTRUCTIONS

Part Number: **5750300**

Product

Description: **REAR WHEEL CARRIER ONLY**

Suited to

vehicle/s: **YJ-TJ-JK JEEP WRANGLER SWB AND UNLIMITED**

WARNING

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 rear bar component, contact your nearest authorised ARB stockist.
- ◆ Do not use this product for any vehicle make or model, other than those specified by ARB.
- ◆ Do not remove labels from this rear 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:

TORQUE WRENCH 20-280Nm (16-250lbs)	NEUTRAL CURE SILICONE
BASIC TOOL KIT	CENTRE PUNCH
ELECTRIC DRILL AND DRILL BITS	SOFT HAMMER
TORX KEYS OR SOCKETS	CRC DRY GLIDE FILM LUBRICANT OR SIMILAR
BEARING GREASE	

HAVE AVAILABLE THESE SAFETY ITEMS WHEN FITTING PRODUCT:

Protective eyewear		Hearing protection	
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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	77Nm	57lbft

OPTIONAL PARTS: 5750310 LICENSE PLATE ASSY

PARTS LISTING

APPLICATION.	PART NO.	QTY	DESCRIPTION
HUB SPINDLE TO REAR BAR	4761158	1	HUB SHAFT
	4610003	1	HUB SHAFT SUPPORT
	6151364	3	BOLT M10 SOCKET HEAD
	6151321	3	NUT M10 FLANGE
	6151330	1	NUT M20 NYLOC
TAILGATE BRACKET TO VEHICLE	3758147	1	BRACKET TAILGATE YJ TJ
	3758158	1	BRACKET TAILGATE JK
	3758146	1	BRACKET NYLON STOP MOUNT
	3758145	1	BRACKET NYLON STOP MOUNT
	6260004	1	NYLON ARM STOP
	3194219	1	CAGE NUT PLATE
	6151234	4	BOLT M8 X 25 BLACK
	4581047	4	WASHER SPRING M8 BLACK
	4581045	4	WASHER FLAT M8 BLACK
	6151301	4	NUT M8 CAGE
	6151228	2	BOLT M6 X 30 BLACK
	4581082	4	WASHER FLAT M6 BLACK
	6151223	2	NUT M6 NYLOC BLACK
	6821245	2	GROMMET TAILGATE PLUG JK
ARM STOP & HIGH MOUNT STOP LIGHT TO ARM	4721752	1	ARM STOP TUBE ASSY
	3758218	1	BRACKET LIGHT ADAPTOR JK
	6151021	12	BOLT M8 X 20
	4581044	12	WASHER FLAT M8
	4581046	12	WASHER SPRING M8
	6151132	4	NUT FLANGE M8
	6151301	8	NUT CAGE M8
	6151300	1	NUT CAGE M6
ARM TO SPINDLE	4558429	1	ARM ASSY
	6364509	1	TOP BUSH
	6364508	1	BOTTOM BUSH
	6151330	1	NUT M20 NYLOC
	4581294	2	WASHER FLAT M20
	3163050	1	HUB CAP
	4590008	1	LOCKING PIN
	4590009	1	LOCKING PIN SPRING
	4590010	1	ROLL PIN
TURNBUCKLE ASSEMBLY TO VEHICLE	6151519	1	ROD END M10 MALE
	6151520	1	ROD END M10 MALE LH THREAD
	6151026	1	NUT M10
	6151523	1	NUT M10 LH THREAD
	6151518	1	M10 TURNBUCKLE
	6151217	1	BOLT M10 X 50
	6151204	1	BOLT M10 X 35
	4581040	2	WASHER FLAT M10
	4581048	2	WASHER SPRING M10
	6151321	2	NUT M10 FLANGE
	4721753	2	SPACER M10
WHEEL BRACKET TO ARM	3758160	1	BRACKET WHEEL MOUNT
	6151382	3	WHEEL STUDS ½ WITH NUTS
	6151305	2	NUT M12 CAGE
	6151355	2	BOLT M12 X 35
	4581007	2	WASHER PANEL M12
	4581050	2	SPRING WASHER M12
	6151357	1	BOLT M10 X 30 SEMS
	6151321	1	NUT M10 FLANGE

FITTING PROCEDURE



1. **ALL MODELS.** Locate laser cut circles on RH side of bar. Punch out using a centre punch. Clean any burrs and paint holes.



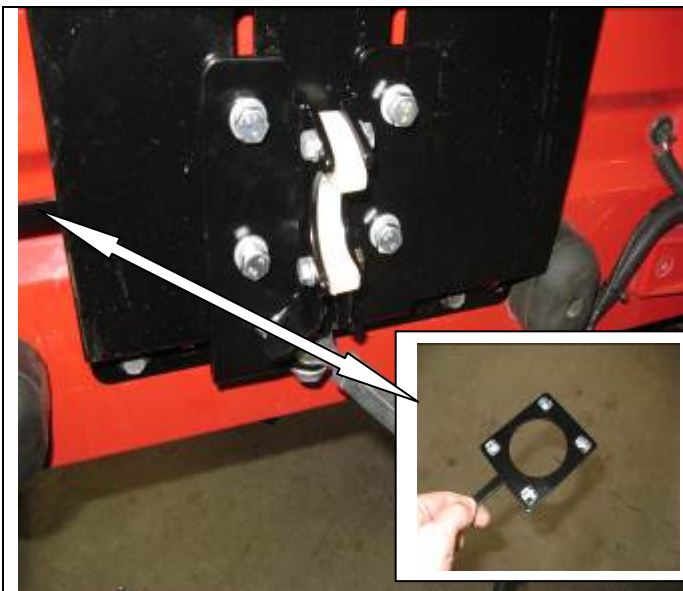
2. Place long shaft in centre M20 hole. Fit support hub over main shaft and line up the three M10 mounting points with holes in bar as shown in photo. Support may need to be tapped on using a soft hammer. Secure using M10 socket head cap screws and flange nuts. Secure main shaft under bar surface using M20 nyloc and flat washer.



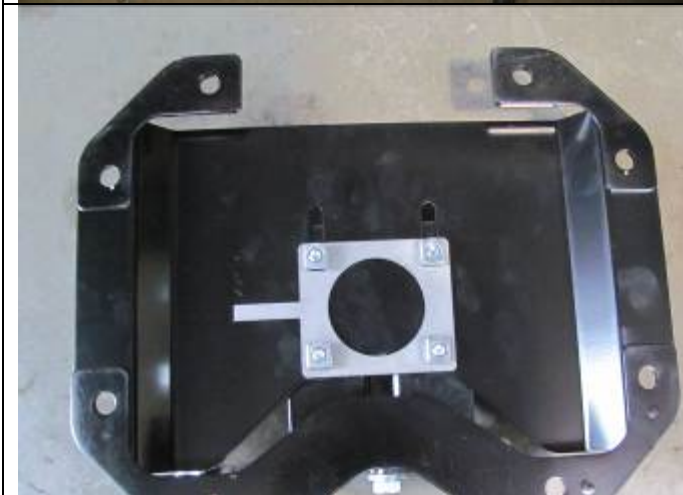
3. **FOR YJ-TJ.** Remove O.E tailgate bracket and stop light if fitted. Remove lower left bump stop from tailgate and plug hole using M6 bolt and flat washer. Retain bump stop for fitment to arm.



4. **ALL MODELS.** Lay out arm stop bracket and components as shown. Lubricate rod ends with 'CRC dry glide' or similar. Apply as per manufacturer's instructions. Fit M10 left and right thread nuts to rod ends before fitting to turnbuckle. Secure nylon block to brackets using two M6 x 30mm bolts, flat washers and M6 nyloc nuts. Secure rod end to brackets using M10 x 35 bolt, Spring washer, flat washer and flange nut.



5. **YJ-TJ.** Install stop assembly to bracket as shown using M8 black bolts, flat washers and cage nuts in cage nut plate. Slide cage nut plate around the back of the bracket and secure finger tight.



6. **JK.** Fit stop assembly to JK tailgate bracket as shown before fitting to vehicle.

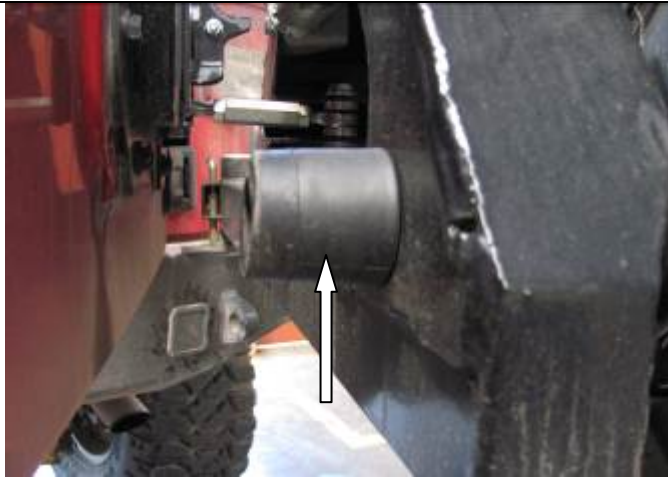


7. Remove JK wheel holder from vehicle and retain all components. Remove and un-plug stop light housing.



8. Install bracket to vehicle and tighten all bolts to specified torque.

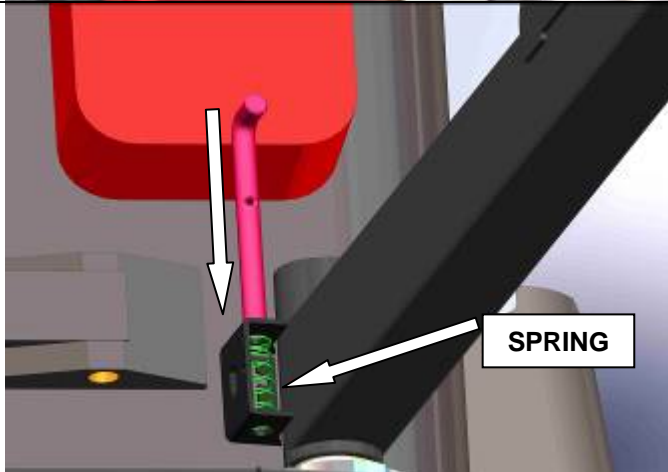
FITTING PROCEDURE



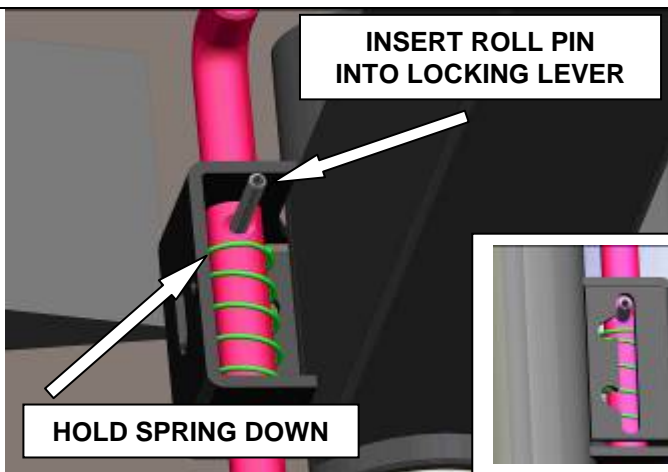
9. **JK.** Pull out the two rubber tyre rests from the JK tailgate and cut to a length of 50mm. Smear mounting face with a slight amount of neutral cure silicone and fit to holes provided in carrier.



10. Clean area around holes in tailgate. Cover holes in tailgate using the two self-adhesive grommets.



11. **ALL MODELS.** Before fitting arm to vehicle fit lock pin and spring as shown. Make sure the top of the pin faces towards the arm.



12. With the help of another person hold down spring using a flat blade screw driver while driving the roll-pin into the hole. Make sure roll-pin sits in groove in bracket when done.

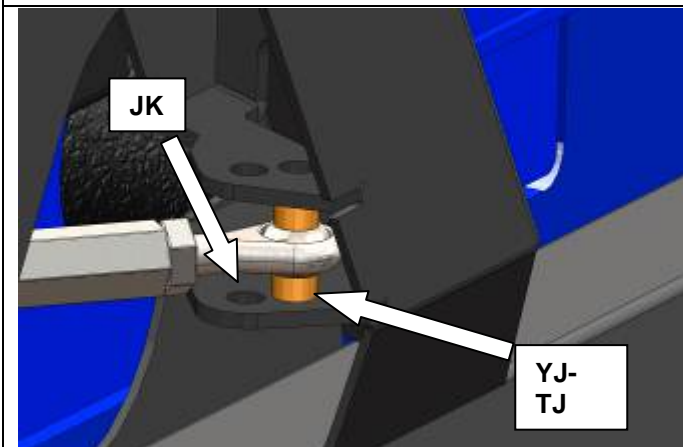
DO NOT MOUNT SPRING IN SUCH A WAY THAT IT PLACES DOWNWARD PRESSURE ON THE SPRING.



13. **ALL MODELS.** Smear a fine layer of bearing grease on all surfaces of bushes. Place bottom plastic bush in arm (tapered version) and place arm onto spindle. It may need a tap with a soft hammer. Place top bush (square shoulder) into arm by tapping with a soft hammer. Secure using M20 nyloc nut and flat washer. Set initial torque to 55Nm.



14. Fit four M8 cage nuts to tube stop assembly and place inside arm. Secure using M8 x 20 bolts, spring washers and flat washers.
15. Spray stop assembly with 'CRC dry glide' or similar and apply as per manufacturer's instructions.



16. Place M10 spacer tubes on top and bottom of rod end noting from image which holes to use. Placing the bolt in an upwards direction secure using M10 x 50 bolt, spring washer, flat washer and flange nut to specified torque.



17. Open doors 30mm from body as shown. Adjust arm so stop assembly sits in Nylon block. Lock turnbuckle and Nylon block bracket bolts into position and test operation of door.



18. **YJ-TJ.** Place M8 cage nuts on bottom surface of light mount bracket. Secure stop light to bracket using four M8 x 20 bolts, spring washers and flat washers. Tighten all bolts to specified torque.



19. **JK.** Mark a line across the JK wheel mount as shown where the square access hole stops. Using a cutting disc or similar remove stop light section from mount. De-burr and paint surfaces.



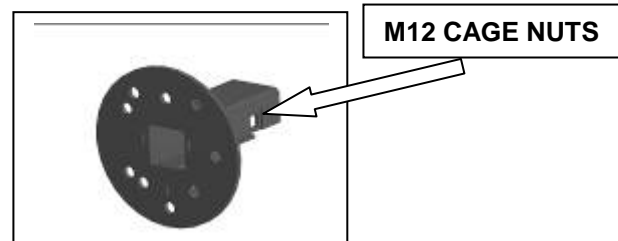
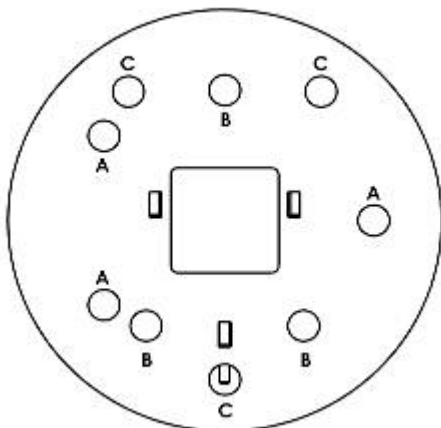
20. Mount JK bracket to arm as shown. Place stop light inside bracket and mark the four hole positions with a felt tip marker. Remove stop light and drill holes out to 9mm. De-burr and paint holes.

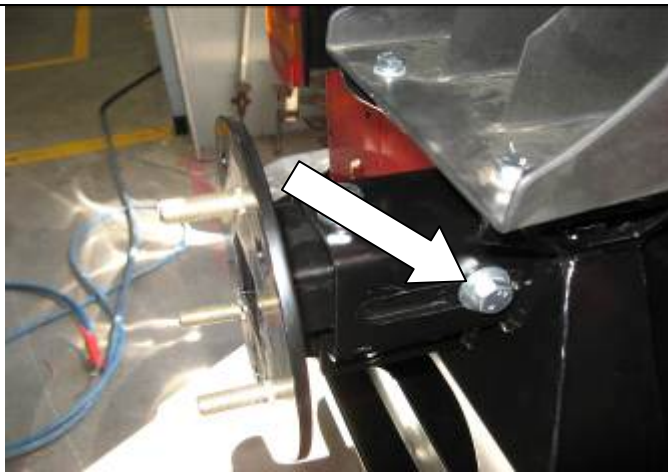
21. Mount stop light to bracket and secure using four M8 x 20 bolts, flat washers and flange nuts. Adjust and tighten after spare wheel is fitted. Plug loom back into light and re-fit light housing to arm.

22.

23. Depending on vehicle model fit studs as shown in image. Place two M12 cage nuts on inside of mount.

A- JK **BE SURE OF STUD PATTERN**
B- TJ **IF NON O.E DIFFERENTIALS**
C- YJ **ARE FITTED.**





24. **ALL MODELS.** Place wheel mount in arm and secure using two M12 x 35mm bolts, spring washers and flat washers. Leave finger tight. Place wheel on mount ensuring it is inflated as per vehicle tyre placard and tighten all components so inner edge of tyre is sitting on sheet metal of arm. Once this is done remove spare tyre only.



25. Move wheel mount inwards 20mm. This will place some load on the tyre when all is secured. Mark hole position, drill to 10mm and secure using M10 SEMS bolt and M10 flange nut. Tighten M10 bolt first followed by side bolts to specified torque.

NOTE: Failure to complete this process as per instructions will result in excessive noise, movement and damage to the tyre.



26. Mount spare tyre back to vehicle and check operation of arm. Due to varying weights of wheels and tyres it may be necessary to adjust nylon block position. Allow the arm to 'ramp up' on the Nylon block no more than 10mm. Test operation of arm. If more resistance is required tighten Nyloc nut on hub further, if less resistance is required back Nyloc off. The initial 55Nm or tighter is recommended as this will prevent arm and door swinging out too easily on steep angles.



27. If fog light is fitted mount to new bracket on arm. Using a soft hammer fit hub cap to hub assembly.

FITTED PRODUCT



YJ-TJ MODEL



JK MODEL

Care And Maintenance.

These helpful hints may assist you in the unlikely event you encounter a problem with the function of your ARB Rear Bar and Carrier. If you need further assistance please contact your local ARB distributor.

'Creaking' when opening door or driving vehicle.

- 1 Rod ends are dry. Lubricate using CRC Dry Glide lubricant or similar.
- 2 Nylon block too dry or dirt trapped between block and arm. Clean block and tube stop on arm and spray with CRC Dry Glide lubricant or similar.

High pitched squeak when driving vehicle.

- 1 Ensure that wheel mount is pinned correctly, main wheel mount bolts and wheel nuts are correctly torqued.
- 2 Ensure tyre is inflated as per vehicle tyre placard.
- 3 Ensure pre load of tyre to arm is set as per instructions.

Excessive tyre 'bouncing' when closing door or driving vehicle.

- 1 Ensure that wheel mount is pinned correctly, main wheel mount bolts and wheel nuts are correctly torqued.
- 2 Ensure tyre is inflated as per vehicle tyre placard.
- 3 Ensure pre load of tyre to arm is set as per instructions.
- 4 Ensure pre load of Nylon block to round stop on arm is set as per instructions.
- 5 Ensure hub assembly is not loose on bar and that upper M20 hub nut is set to no less than 55Nm.

Rattle when driving vehicle.

- 1 Ensure brackets on arm are not loose. Recovery shackles left in recovery eyes of bar will produce this symptom.

Arm 'climbs' up too far onto Nylon block.

- 1 Ensure hub assembly is not loose on bar and that upper M20 hub nut is set to no less than 55Nm.
- 2 Ensure Nylon block is adjusted so arm 'ramps up' no more than 10mm.