

FITTING INSTRUCTIONS BP5160031, BP5160021 & BP5160022 JEEP JK WRANGER FRONT

WARNING

- This product must be installed exactly as per these instructions using only the hardware supplied.
- In the event of damage to any suspension component, contact your nearest authorised ARB stockist. Repairs or modifications to the suspension system components 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 suspension components.
- 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

Note: These fitting instructions should be read in conjunction with the vehicle workshop manual.



WARNING

BP5160031 is designed to be used with a 2" Lift kit. No Bump Spacing required.

BP5160021 and BP5160022 are designed to suit and work with the OME JK 4" Lift Kit which addresses the following requirements with components as described.

Features	Component	OME Part numbers		Comments	
Features	Component	Front	Rear	comments	
Lift	Springs	2642 / 3047	2643 / 3046	4" lift coils designed to stay located with longer dampers	
Damping	Shocks absorbers	60066M / BP5160022	60067 / BP5160023	Dampers with optimised lengths for maximum down travel	
Bump Stops	Bump stop spacers	FK40		Bump stops spacers optimised for extended and compressed lengths to allow for maximum compression and rebound control. Minimum Front bump spacer height - BP5160021 50mm (2") - BP5160022 75mm (3")	
Castor Correction	Offset washer	FK53		Rectangular washers return factory caster angle	
Centre Front Axle	Adjustable panhard rod	PANRJK002	-	Heavy Duty Adjustable front panhard rod to fine tune axle centre location	
Centre Rear Axle	Track bar relocation bracket	-	FK47 (LHD/RHD)	Rear track bar bracket centres axle and repositions rear roll centre to provide positive rear stability.	
Brake lines	Relocation brackets	FK46		Brake line relocation brackets reroute factory brake lines to work with this kits extended dampers.	
Handbrake Cable	Relocation bracket			Handbrake relocation bracket lowers brake line mounting position to relieve stress on brake lines resulting from higher ride height.	
Roll Control / Articulation	Extended disconnect sway bar links	FK48		New longer sway bar links to correct sway bar alignment and ensure droop travel is limited by the dampers. Front Link can also be disconnected for increased front axle articulation	
Front end wobble	Steering damper & bracket	OMESD48	-	Steering damper with increased control for JK	

If not using the complete OME 4" kit please ensure all the above features are considered.

FITTING KIT CONTENTS VM80010014

1 TOOL: ADJUSTER TOOL 1 VC1001007 2 RESI MOUNT: JEEP FRONT (part 1) 2 VE10020002	2SP
	3SP
3 RESI MOUNT: JEEP FRONT (part 2) 2 VE1002000	
4 MOUNT: RESERVOIR CLAMP 2 VE1001000	3SP
MOUNT: JEEP FRONT LOWER (L) 1 VF60050004	4LSP
MOUNT: JEEP FRONT LOWER (R) 1 VF60050004	4RSP
6 SLEEVE (16MM OD) 12 x 40 2 VF50021240	OSP
7 M6 NYLOCK NUT 4 VD6001000	3SP
8 M6 WASHER BLACK 4 VE7002000	5SP
9 M6 x 1.0 x 16 BOLT 2 VD6003000	3SP
10 M6 x 1.0 x 25 BOLT 2 6151550SP	
11 M8 NYLOCK NUT 8 VD6001000	4SP
12 M8 WASHER BLACK 16 VE70020004	4SP
13 M8 x 1.25 x 20 BOLT 8 VD6003000	1SP
14 M12 NYLOCK NUT 4 VD6001000	2SP
15 M12 WASHER OD28 T3 6 VE70020007	7SP
16 M12 X 1.25 X 80 SCREW BUTTON HEAD 2 VD6002001	1SP
17 M12 x 1.25 x 70 BOLT 2 VD6003000	7SP







RESERVOIR MOUNTING SEQUENCE

(LHS SHOWN)

Fit mounting brackets around the chassis rail using M6 x 25 and M8 x 20 as shown in picture loosely.

Trim the wheel arch plastic to create clearance for the resi as shown in far right picture.

Fit M6 x 16 loosely into front mounting bracket using the hole as shown and secure with nyloc nut and flat washer.

Secure finger tight only at this stage.

Fit the mounting saddle to the reservoir and slide over the heads of the bolts in the mounting plate. Adjust the position of the reservoir as shown tilting downwards towards the front of the vehicle and tighten M6 and M8 fasteners.

Ensure the reservoir clears the vehicle body and that the hose has a clean arc with no kinks. You can lightly twist the resi to direct the hose path as required.

Note position of reservoir to clamp shown by the photos as a guide. Fasten hardware securely and torque where specified.





Trim the Wheel Arch plastic as shown below to make clearance for resi.





VM90010014

SPECIFICATIONS AND SPARE PARTS

1	Spare Part: Top Bush Kit	VM50010008SP
2	Spare Part: Hose	VD80020275SP
3	Spare Part: Oil	VC30040001SP
4	Specification: Nitrogen Pressure	2000 kPa
5	Specification: Factory Rebound Setting	5
6	Specification: Factory Compression Setting	5
7	Spare Part: Valve Cap	VD30020003SP
8	Spare Part: Bush Kit ID12x40L	VM50010010SP
9	Spare Part: Damper Mounting Kit	VM8000100014

	Shock	Extended Length	Closed Length	Shaft Travel
10	BP5160031	578 mm	370 mm	208 mm
	BP5160021	628 mm	395 mm	233 mm
	BP5160022	678 mm	420 mm	257 mm

DAMPING ADJUSTMENT

These dampers have been set in the factory to be used for a vehicle with accessories fitted. If your load or accessory fitment differs, use the table below as a guide for recommended compression (Comp) and rebound (Reb) adjuster settings. Refer to the Owners' Manual for more information.

Front accessories	Comp	Reb
Bar & winch	4-8	4-8
Bar only	2-6	2-6
No accessories	0-4	0-4

