



4X4 ACCESSORIES



DATE:

July 2015

DESCRIPTION:

OME BP-51 High Performance Bypass Shock Absorbers

APPLICATION:

Toyota FJ Cruiser (2010-2014)

PART NO. :

Refer to Table Page 2

PRICE:

Coilover- \$800.00

Shock Absorber- \$510.00

Vehicle Fit Kits - Refer to Table Page 2

AVAILABILITY DATE:

July 2015



PRODUCT SPECIFICATION

ARB IS PROUD TO ANNOUNCE THE RELEASE OF OME BP-51 FOR TOYOTA FJ CRUISER (2010-2014)

ARB 4x4 Accessories is bringing racing technology to your adventures. The OME BP-51 shock absorbers feature revolutionary, patent-pending technology developed by the Old Man Emu engineers to deliver unparalleled on and off road performance.

This application of OME BP-51 High Performance Bypass Shock Absorbers has been engineered specifically for the Toyota FJ Cruiser model years 2010 through 2014. Consisting of 2 coil overs, 2 shocks and 2 fits kits, this application does contain left and right side specific coil overs.

The resulting height gain for the FJ Cruiser, when paired with the appropriate rear coils, will be 2.5 to 3 inches of lift.

Rear shock absorbers have been tuned to match the existing range of rear Old Man Emu springs and recommended compression and rebound settings can be found in the supplied fitting instructions for the various spring options available. The fitting instructions also include detailed information for correct installation of the shock absorber and reservoir placement.

It is worth noting the coil overs are preloaded with an Old Man Emu coil and are set to the appropriate lift height for vehicle's with a bumper and winch. If these are being fitted to a vehicle without a bumper and winch, the spring preload will need to be adjusted to compensate for a lighter total vehicle weight. The use of the new BP-51 Spring Compressor Tool kit (VM800200001) will make this adjustment easier and minimize the possibility of damaging the coil.

Developed and extensively tested under the harshest conditions in Australia, these big bore, position sensitive bypass shock absorbers with remote reservoir are designed to bolt onto your vehicle without any vehicle modifications and combine considerable ride comfort around town with significant amounts of end-zone damping for exceptional chassis control and handling off road.

The damping performance is easily adjustable across a wide range in both rebound and compression, resulting in significant changes to the ride performance of your vehicle, enabling a custom tune to suit the conditions and vehicle set up.

The body, reservoir and components are all made from 6061 T6 aluminium, Type 3 40 micron hard anodised ensuring exceptional heat dissipation, corrosion resistance and resistance to stone damage.

Not only designed, developed and tested entirely by ARB's team of Old Man Emu ride engineers, all BP-51 shock absorbers are manufactured in-house by ARB. In order to achieve this, significant investment has been made in state of the art machinery and hard anodising equipment, allowing ARB total control of the manufacturing process to ensure the highest possible quality.

DESIGN & DEVELOPMENT:

The OME engineers were set a challenge to design a high performance shock absorber for the modern day vehicle. With more and more vehicles moving to an independent front suspension set up, the challenge grows as you have limited travel and restrictions to what you can actually fit within a coil over strut set up.

With traditional velocity sensitive shock absorbers, achieving exceptional ride quality and the balance between comfort and control tuning requires a great deal of time and effort, with many valving changes required to get the balance correct. You still end up with a compromise with either a slightly firmer controlled set up or softer comfort orientated result.

Bypass technology exists to overcome some of these ride quality challenges but presents a new challenge as traditional multiple bypass tube products simply won't fit inside a coil over independent front or many rear shock absorber applications.

Other areas that had to be considered were corrosion, heat dissipation, durability and how do you cater for individual ride preferences or vehicle loading scenarios. The product also needs to easily bolt into a large range of vehicle applications without modifications to the actual vehicle.

After 4 years of extensive design, development and testing the challenge has been met and it is the new BP-51.

INDIVIDUAL COMPONENTS:

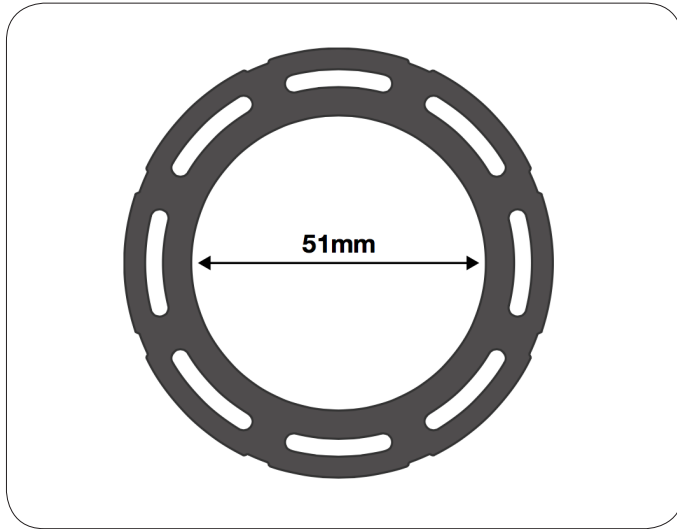
Part Number	Description	Qty Req.	List Price	Availability
BP5190002R	C/OVER: TOYOTA PRADO 150 FR. RH	1	\$800.00	Aug 2015
BP5190002L	C/OVER: TOYOTA PRADO 150 FR. LH	1	\$800.00	Aug 2015
BP5160002	SHOCK: PRADO 150 REAR	2	\$510.00	Aug 2015
VM80010008	KIT: PRADO 150 FRONT	1	\$84.00	Aug 2015
VM80010010	KIT: PRADO 150 REAR	1	\$56.00	Aug 2015

KIT OPTIONS:

Kit Number	Description		Retail Price
OMEFJC10LKBP51	BP51 KIT 2.5 INCH FJ CRUISER LIGHT/STOCK		\$2,936
Component Parts	Quantity	Component Description	
BP5190002R	1	C/OVER: TOYOTA PRADO 150 FR. RH	
BP5190002L	1	C/OVER: TOYOTA PRADO 150 FR. LH	
2895E	1	COIL REAR PRADO SWB	
BP5160002	2	SHOCK: PRADO 150 REAR	
VM80010008	1	MOUNT KIT: PRADO 150 FRONT	
VM80010010	1	MOUNT KIT: PRADO 150 REAR	
217615	1	OME BP51 WATER BOTTLE	

Kit Number	Description		Retail Price
OMEFJC10HKBP51	BP51 KIT 2.5 IN 2010 FJ CRUISER HEAVY		\$2,936
Component Parts	Quantity	Component Description	
BP5190002R	1	C/OVER: TOYOTA PRADO 150 FR. RH	
BP5190002L	1	C/OVER: TOYOTA PRADO 150 FR. LH	
2898	2	COIL PRADO 150 HEAVY-R-	
BP5160002	2	SHOCK: PRADO 150 REAR	
VM80010008	1	MOUNT KIT: PRADO 150 FRONT	
VM80010010	1	MOUNT KIT: PRADO 150 REAR	
217615	1	OME BP51 WATER BOTTLE	

FEATURES:



KIDNEY BYPASS PORTS / 51MM BORE DIAMETER

- Maximum bore size & bypass diameter
- Greater oil volume
- More tunable, ability to generate force



EXTERNAL COMPRESSION AND REBOUND ADJUSTMENT:

- Independent adjustment of compression and rebound
- Adjustable while installed on the vehicle
- Ultra wide range to suit varying loads and ride preferences



BODY/RESERVOIR/COMPONENTS 6061 T6 ALUMINIUM:

- Heat dissipation
- Corrosion resistance



INTERNAL BYPASS, SHIM CONTROLLED, POSITION SENSITIVE DAMPING (PATENT PENDING):

- Provides comfort at ride height
- Damping increases as you get closer to the end zone
- Increased control at end zones



DASH 6 HIGH TEMPERATURE TEFLON HOSE WITH HIGH FLOW FITTINGS:

- No restriction of oil flow



LARGE TEFLON LINED SPHERICAL BEARINGS:

- Durability

NOTE: Coil over applications only



ADJUSTABLE SPRING PRELOAD / RIDE HEIGHT:

- Cater for varying loads

NOTE: Coil over applications only. Not a feature on the Jeep Wrangler JK.



HIGH PRESSURE NITROGEN RESERVOIR WITH ALUMINIUM, ANODIZED FLOATING PISTON:

- Increased oil volume
- Maximize travel



IMPACT RESISTANT, REPLACEABLE SHAFT GUARD:

- Protects against stone damage



19MM HARD CHROMED GROUND SHAFT:

- Low friction
- Superior Strength



VEHICLE SPECIFIC APPLICATIONS:

- No fitting modifications required
- Fit kits sold separate from shock absorbers.

ADDITIONAL FEATURES:

100% RE-BUILDABLE AND RE-VALVEABLE:

- Longevity
- Tuneability

HIGH TEMPERATURE VITON AND TEFLON SEAL PACK:

- Durability of seals



TYPE 3 40 MICRON HARD ANODIZED FINISH:

- Corrosion resistance
- Abrasion resistance to stone damage

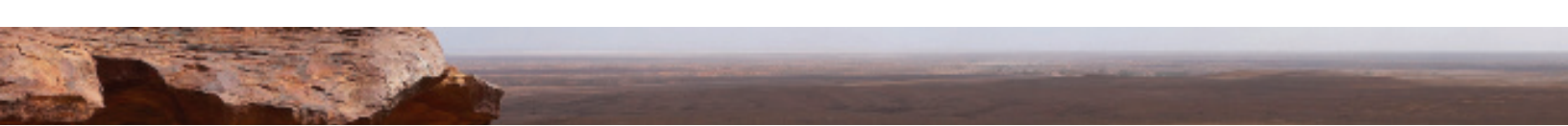
HIGH PERFORMANCE, HIGH VISCOSITY INDEX OIL:

- Durability and consistency of performance

1900MPA POLISHED, HIGH STRENGTH, HIGH FATIGUE SHIMS:

- Durability
- Superior Strength

3 YEAR / 60000 KM WARRANTY



ADDITIONAL MEDIA:

Learn more about the development of the BP-51 product line by watching this video...

https://youtu.be/0D_MYVHxemQ

ABOUT ARB 4X4 ACCESSORIES

Founded in 1975 in Melbourne, ARB 4x4 Accessories is now Australia's largest manufacturer and distributor of aftermarket 4WD accessories. With products including bull bars, protection equipment, Old Man Emu suspension, Air Lockers, roof racks, canopies and recovery equipment, our primary mission is to prepare vehicles for the remote and harsh conditions typically encountered off road.