

Date:  
May 2016

Description:  
OME BP-51 High Performance  
Bypass Shock Absorbers

Application:  
2005-2015 Toyota Tacoma

2016+ Toyota Tacoma

Part No. & Pricing :  
Refer To Application Table

Currently Available for Purchase



## Product Specification

**Old Man Emu is pleased to release the latest application of BP-51 High Performance Bypass Shock Absorbers engineered specifically for the Toyota Tacoma.** Although there are subtle weight differences between the last generation Tacoma and the new generation, with the adjustable nature of the BP-51 the OME engineers have been able to tune and design the BP-51 package to suit both applications. This package consists of 2 front coilovers, 2 rear shock absorbers and 2 fit kits.

The front coilovers have been tuned in both length and feel specifically to the Tacoma and are capable of accommodating setups with and without accessories (bumpers, winch, etc). Specific reservoir brackets have been designed for application specific reservoir placement and also relocation of the sway bar to allow clearance at the spring seat. While the front coilovers are adjustable in height, the system has been designed for a 2 inch (50mm) ride height increase and a minimum of 2 inch (50 mm) down travel.

Rear shock absorbers have been tuned in length and valving specific to the Tacoma. To accommodate the large body size of BP-51 a specific lower mount bracket has been developed to provide clearance to the axle. Specific reservoir brackets have also been developed and are included in the rear fit kit. The rear dampers are tuned to match the existing range of rear Old Man Emu springs.

Recommended compression and rebound settings can be found in the supplied fitting instructions for the various spring options available. The fitting instructions include detailed information for correct installation of the shock absorber and reservoir placement. Please note there is a left hand and right hand application due to the different reservoir mounting method and locations.

### Part Numbers:

Part No.	Description	Quantity
BP5190006R	C/OVER: TACOMA FRONT RIGHT	1
BP5190006L	C/OVER: TACOMA FRONT LEFT	1
BP5160011R	SHOCK: TACOMA REAR RIGHT	1
BP5160011L	SHOCK: TACOMA REAR LEFT	1
VM80010016	KIT: TACOMA FRONT	1
VM80010017	KIT: TACOMA REAR	1

### Kit Number:

Kit Number	Description	Component Part #	Quantity
OMETAC16BP51B	TACOMA BP-51 KIT		
	C/OVER: TACOMA FR LH	BP5190006L	1
	C/OVER: TACOMA FR LR	BP5190006R	1
	BP KIT TACOMA FRONT	VM80010016	1
	SPRING TOY TACOMA 05+ LEAF	CS047R	2
	SHOCK: TACOMA REAR LH	BP5160011L	1
	SHOCK: TACOMA REAR RH	BP5160011R	1
	TACOMA REAR D-SHAFT SPACER	FK29	1
	UBOLTS	OMEU53A	4
	SPRING BUSHING KIT	OMESB108	2
	STICKER	216522	2
	WATER BOTTLE	217195	1

\* Please refer to Old Man Emu Sport Information about non-BP-51 components

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## **Old Man Emu brings racing technology to every day adventures:**

BP-51 (Bypass 51mm diameter bore) shock absorbers feature revolutionary, patent pending technology developed to deliver unparalleled on and off road performance.

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 of 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 aluminum, Type 3 40 micron hard anodized 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 providing ARB total control of the manufacturing process to ensure the highest possible quality.

### **Design & Development:**

The OME engineers were given 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 coilover 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.

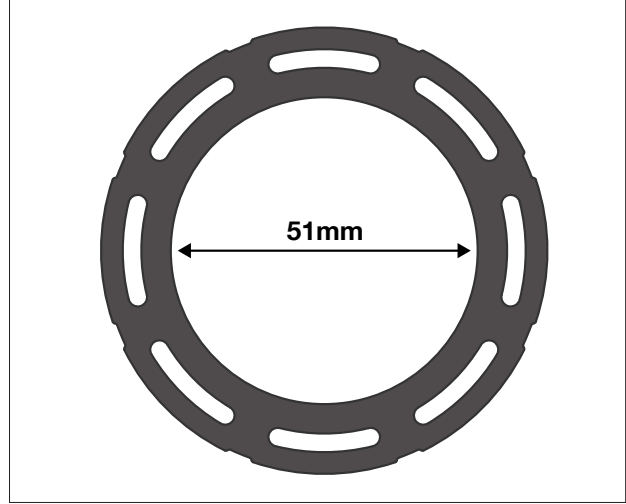
Bypass technology exists to overcome some of these ride quality challenges but presents a new challenge as traditional multiple bypass tube products simply won't fit inside a coilover IFS or many rear shock absorber applications.

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.



**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



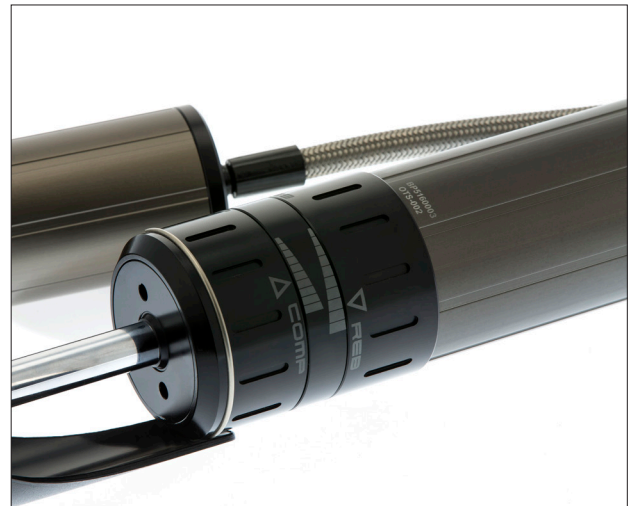
**Kidney bypass ports/51mm bore diameter:**

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



**Vehicle specific applications:**

- No fitting modifications required
- Fit kits included



**External compression and rebound adjustment:**

- On car adjustable
- Independent adjustment of compression and rebound
- Ultra wide range to suit varying loads and ride preferences



**Body/Reservoir/Components 6061 T6 Aluminum:**

- No restriction of oil flow



**Type 3 40 micron hard anodized finish:**

- Corrosion resistance
- Abrasion resistance to stone damage



**Adjustable spring preload / ride height:**

- Cater for varying accessory weights



**19mm Hard chromed ground shaft:**

- Low friction
- Strength

**ADDITIONAL FEATURES:**

**100% RE-BUILDABLE AND RE-VALVEABLE:**

- Longevity
- Tuneability

**HIGH TEMPERATURE VITON AND TEFLON SEAL PACK:**

- Durability of seals

**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**

## TOYOTA

### TACOMA 2016 ON

<b>FRONT</b> <i>Estimated Lift: 50mm</i>		PART NUMBER	QTY
<b>SPRING: NO BAR</b>	<b>2887</b>	1	1
STRUT SPORT	90021 <span style="border: 1px solid black; padding: 0 2px;">1</span>	2	
<b>SPRING: BAR ONLY</b>	<b>2888</b>	1	
STRUT SPORT	*90000 / 90021 <span style="border: 1px solid black; padding: 0 2px;">1</span>	2	
<b>SPRING: BAR &amp; WINCH</b>	<b>2886</b>	1	
STRUT SPORT	*90000 <span style="border: 1px solid black; padding: 0 2px;">1</span>	2	
TRIM PACKER	OME95PF5		
UPPER STRUT BUSHES	OME3133 <span style="border: 1px solid black; padding: 0 2px;">1</span>		
STRUT TOP HAT KIT	OMETH002 <span style="border: 1px solid black; padding: 0 2px;">2</span>		
<b>BP-51 SELECTION</b>			
COIL OVER TACOMA FRONT LH	BP5190006L	1	
COIL OVER TACOMA FRONT RH	BP5190006R	1	
BP KIT TACOMA FRONT	VM80010016	1	
<b>REAR</b> <i>Estimated Lift: 50mm</i>		PART NUMBER	QTY
<b>SPRING: MEDIUM LOAD</b>	<b>CS047R</b> <span style="border: 1px solid black; padding: 0 2px;">3</span>	2	
NITROCHARGER SPORT	60091		
<b>SPRING: CONSTANT 150 KGS</b>	<b>CS047R</b>	2	
NITROCHARGER SPORT	60091		
<b>SPRING: CONSTANT 300 KGS</b>	<b>CS047R</b> <span style="border: 1px solid black; padding: 0 2px;">4</span>	2	
NITROCHARGER SPORT	60091		
EXTRA LEAF	D29XL	2	
CENTRE BOLT	UCB17		
U BOLT	OMEU53A	4	
SPRING BUSH KIT	OMESB108	2	
DRIVESHAFT SPACER KIT	FK29	1	
<b>BP-51 SELECTION</b>			
SHOCK ABSORBER TACOMA REAR LH	BP5160011L	1	
SHOCK ABSORBER TACOMA REAR RH	BP5160011R	1	
BP KIT TACOMA REAR	VM80010017	1	

**REMARKS:**

- 1 No top mounting bushes supplied, use OME3133. OE bushes may be re-used if in good condition.
- 2 Strut Top Hat Kit may be required if original equipment is worn.
- 3 For medium load spring removal of 3rd leaf is required.
- 4 For constant 300kg spring Extra Leaf is required to be added.

## ABOUT ARB

ARB Corporation Limited is Australia's largest and industry leading manufacturer and distributor of quality, 4WD vehicle accessories, with distribution in more than 100 countries worldwide. The company manufactures and stocks the worlds most respected and sought after 4x4 accessories.