BP-51 now released for Toyota Hilux 2015 on. Old Man Emu is pleased to release the latest application of BP-51 High Performance Bypass Shock Absorbers engineered specifically for the new 2015 Toyota Hilux. This package consists of 2 front Coil overs, 2 rear Dampers and 2 fit kits.

The front Coil Overs have been tuned in both length and feel specifically to the new Hilux and are capable of satisfying setups with and without accessories. New front eyelet spacers have been implemented to account for the change in front Coil Over eyelet geometry. New front reservoir brackets have also been designed to not only hold the reservoir in a more accessible location but also shift the sway bar forward to allow clearance for the Coil Over spring seat. Due to the change in geometry of the new Hilux, new front chassis braces have also been designed to allow clearance for the sway bar. The Front coil overs were developed as a left and right application for ease of fitment and placement of reservoirs.
Rear Dampers have been tuned in length to allow for the change in vehicle geometry. Along with the piggy back reservoir bracket, a new left hand loom bracket has also been developed to cater for the reservoir geometry and secure the OE electrical loom. The 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:**

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**Old Man Emu brings racing technology to every day applications:**

BP-51 (Bypass 51mm diameter bore) shock absorbers feature revolutionary, patent pending technology developed to deliver unparalleled on and off road performance for your 4x4.

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’s called BP-51

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 Aluminium:
- No restriction of oil flow

Type 3 40 micron hard anodised finish:
- Corrosion resistance
- Abrasion resistance to stone damage
Adjustable spring preload / ride height:
- No restriction of oil flow

Type 3 40 micron hard anodised finish:
- Corrosion resistance
- Abrasion resistance to stone damage

NOTE: Coil over applications only

DASH 6 high temperature Teflon hose with high flow fittings:
- No restriction of oil flow

Large Teflon lined spherical bearings:
- Durability
Impact resistant, replaceable shaft guard*:
- Protects against stone damage
* New Design

Additional features:

Quality oversized rubber bushings:
- Durability

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
- Strength

19mm Hard chromed ground shaft:
- Low friction
- Strength

51 mm bore diameter:
- Greater oil volume
- More tunable, ability to generate more force

1900MPa polished, high strength, high fatigue shims:
- Durability

3 year/60000 km warranty