DATE:
June 2015

DESCRIPTION:
OME BP-51 High Performance Bypass Shock Absorbers

APPLICATION:
Toyota Landcruiser Prado 150 & FJ Cruiser 2011 on

PART NO.:
Refer Table below

PRODUCT GROUP:
Refer Table below

AVAILABILITY DATE:
Limited Qty available June 2015

PRODUCT SPECIFICATION

BP-51 NOW RELEASED FOR TOYOTA PRADO 150 LWB/FJ CRUISER

Old Man Emu is pleased to release the latest application of BP-51 High Performance Bypass Shock Absorbers engineered specifically for the Toyota Prado 150 long wheel base variants and FJ Cruiser 2011 on models. Consisting of 2 coil overs, 2 shocks and 2 fits kits this application will fit the both KDSS equipped and Non KDSS Prado 150 models. It is worth noting that a different front left hand coil over and front fit kit have been developed for the KDSS models, the right hand coil over, rear shocks and rear fit kit are common amongst all models.

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.

NON KDSS VEHICLES:

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KDSS VEHICLES:

Please Note: Vehicles with KDSS must fit BP5190004L (replaces BP5190002L) and VM80010009 (replaces VM80010008).

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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.
FEATURES:

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

EXTERNAL COMPRESSION AND REBOUND ADJUSTMENT:
- On car adjustable
- Independent adjustment of compression and rebound
- Ultra wide range to suit varying loads and ride preferences

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
BODY/RESERVOIR/COMPONENTS 6061 T6 ALUMINIUM:
- Heat dissipation
- Corrosion resistance

TYPE 3 40 MICRON HARD ANODISED FINISH:
- Corrosion resistance
- Abrasion resistance to stone damage

DASH 6 HIGH TEMPERATURE TEFLOM HOSE WITH HIGH FLOW FITTINGS:
- No restriction of oil flow

LARGE TEFLOM LINED SPHERICAL BEARINGS:
- Durability

NOTE: Coil over applications only
ADJUSTABLE SPRING PRELOAD / RIDE HEIGHT:

• Cater for varying loads

NOTE: Coil over applications only

HIGH PRESSURE NITROGEN RESERVOIR WITH ALUMINIUM, ANODISED FLOATING PISTON:

• Increased oil volume
• Maximise travel

IMPACT RESISTANT, REPLACEABLE SHAFT GUARD:

• Protects against stone damage

19MM HARD CHROMED GROUND SHAFT:

• Low friction
• Strength
ADDITIONAL FEATURES:

QUALITY OVERSIZED RUBBER BUSHINGS:
- Durability

100% RE-BUILDABLE AND RE-VALVEABLE:
- Longevity
- Tuneability

HIGH TEMPERATURE VITON AND TEFLOM SEAL PACK:
- Durability of seals

HIGH PERFORMANCE, HIGH VISCOSITY INDEX OIL:
- Durability and consistency of performance

51 MM BORE DIAMETER:
- Greater oil volume
- More tunable, ability to generate more force

1900MPA POLISHED, HIGH STRENGTH, HIGH FATIGUE SHIMS:
- Durability
- Strength

3 YEAR / 60000 KM WARRANTY