



PF-BL013  
07/07/2009

progression in suspension

Dear Powerflex Partner,

NEW PRODUCT RELEASE

### Polyurethane Low Compliance Ball & Socket Bush

#### The Problem...

Car manufactures have been adopting to use an upright design of bush on the front suspension of their vehicles. When using polyurethane in a conventional manner, when the arm rotates it does not rotate the bush, it rather pushes and pulls the central sleeve against the polyurethane. One way to improve this and allow free movement was to use a rose joint in the design, but the inherent problem with rose joints is the excessive and unacceptable high amount of Noise Vibration & Harshness (NVH).

#### The Solution...

The Powerflex design team set themselves a target to design a suitable substitute to the rose joint but with greatly reduced NVH. Powerflex's superior blending of polyurethane and design skills has enabled them to design and produce a durable **polyurethane ball and socket bush**. This innovative design has achieved the following key benefits;

- Unrestrictive movement
- quiet operation low levels of NVH
- minimal drag
- low weight
- low compliance

Additional features which can be designed into the Powerflex Polyurethane Ball & Socket Bush as and where needed depending on application and use include;

- on car caster adjustment
- revised anti lift geometry

#### The Product...

### PFF19-1302G - FRONT LOWER ARM REAR CASTER ADJUSTING BUSH

Vehicle applications, (always refer to catalogue for current listings)  
Ford Mondeo Mk3 2000 to 2007  
Jaguar X type 2001-

PFF19-1302G has been launched and is the first bush to incorporate the **New Polyurethane Low Compliance Ball and Socket** design for maximum performance.

PFF19-1302G has been engineered to allow **ON CAR CASTER** adjustment for the front suspension, with a designed static adjustment range of +/-0.33 deg .

#### The Future...

Product development has already begun, using the polyurethane ball and socket design, to cover new models including;

- Mitsubishi EVO X
- Honda S2000

*Until next time, the Powerflex Team.*

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